

IES Indoor Report

Photometric Filename:METRO-4FT-40W.IES

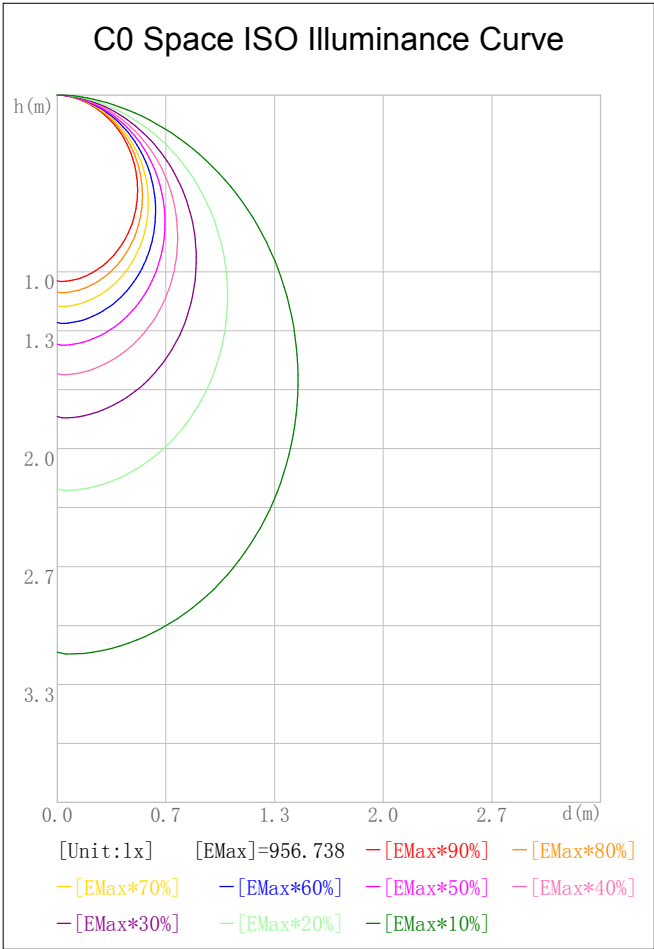
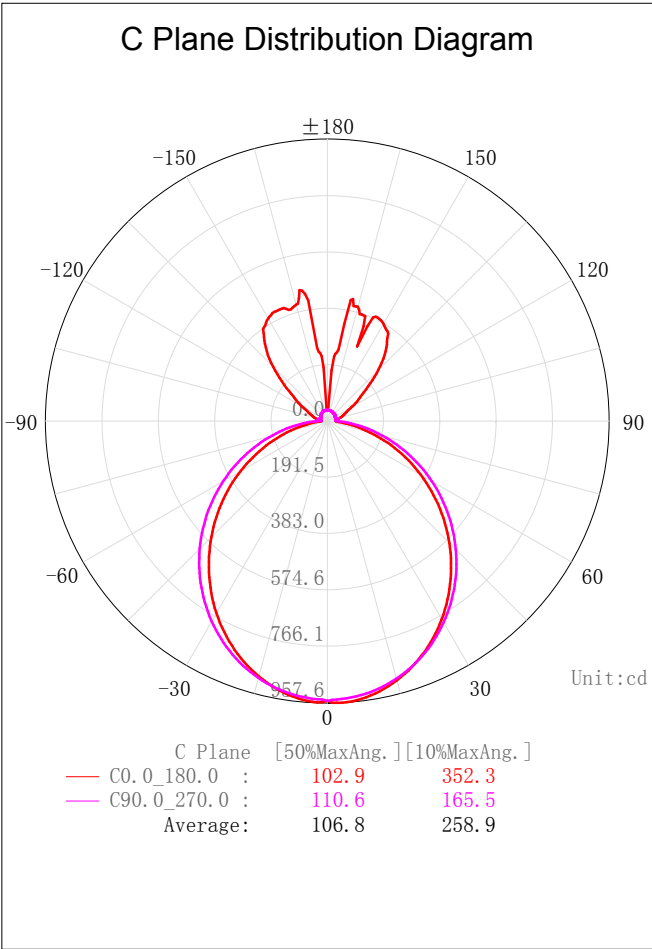
Indoor Luminaire Photometric Data

Description Information

Luminary Name:METRO-4FT-40W	Lum. Catalog:	Test ID:001
Lamp Name:SMD	Lamp Catalog:LED	Test Date:2018/08/15
Manufacture:Light Blue USA / Rayhil	Shld.Ang(°):	Test Machine:GON-2000
Test Lab:Volnic IES	Frequency(Hz):50.0	Lamp CCT(K):Ra:
Lum.Size(W*L*H):20mm*1200mm*0mm	Lum.Area(m2):0.024	Lum.W(kg):1.000
Test System:C,γ	Test Step:C=30.0γ=1.0	Temp.(°C):25
		Humidity(%):50

Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm):3411.510	Luminary Flux(lm):3411.510	Field Angle(10%Imax):352.3(°)
Rated Power(W):	Luminary Efficiency:100.00%	Down Lumens&Percent:2565.934lm75.21%
Rated Voltage(V):	Luminary EER(lm/W):88.312	Up Lumens&Percent:845.577lm24.79%
Tested Power(W):38.630	Max.Candela(cd):957.625	S/MH:C0_a180=1.201C90_270=1.234
Lamps' Inside:1	Max Cand@Ang.(°):C=0.0γ=3.0	CIE Type:General Diffuse
Tested Electrics(V,A,pf):229.9,0.172,0.974	Beam Angle(50%Imax):102.9(°)	ErPΦuse(120°):2033.776lm
Lamp Size(W*L*H):20mm*1200mm*0mm	Left=-50.4°,Right=52.5°	IRF(%):113.920



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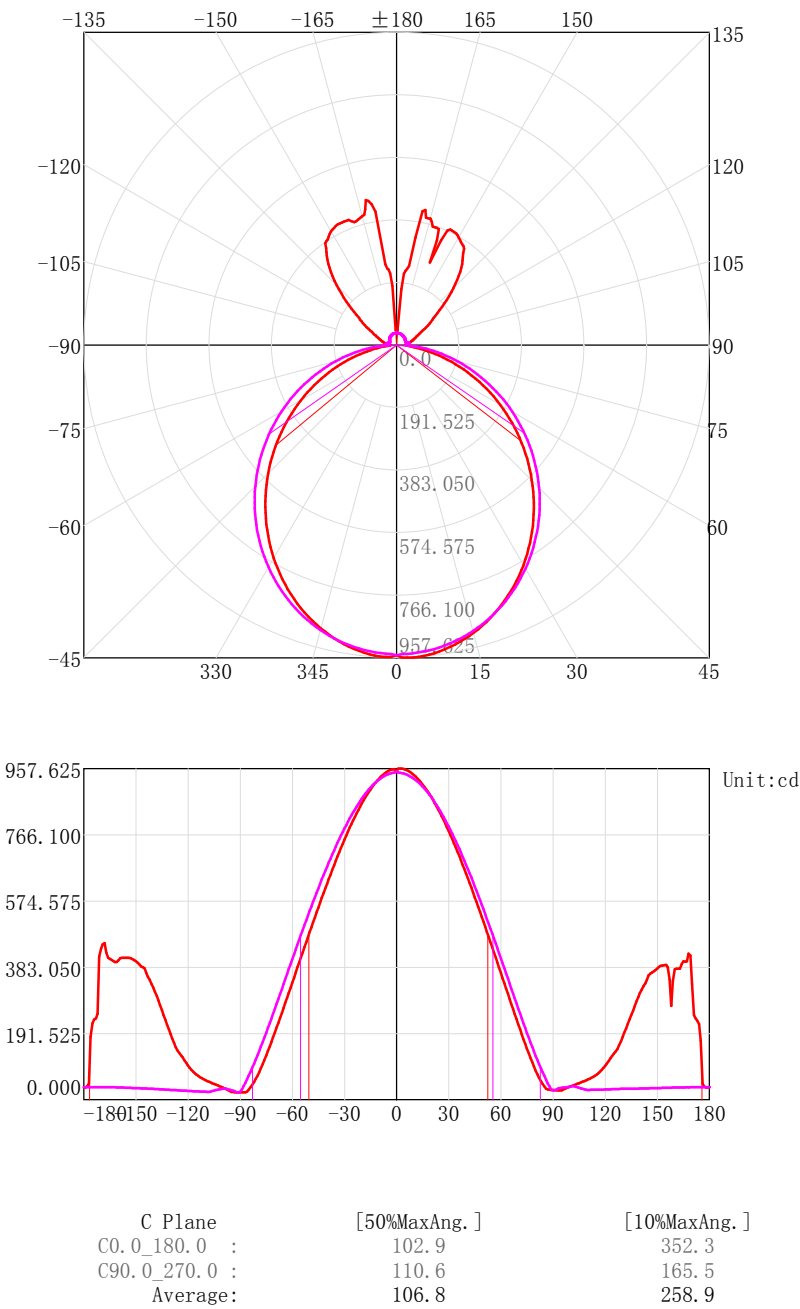
Average brightness table(cd/m2)

Angle value	Average	Average	Average
Y(° )	L0	L45	L90
45	34504	35419	36357
55	32078	33453	34960
65	28808	30886	33180
75	23864	27197	31180
85	18361	22522	33081

2D Plane Light Intensity Distribution Curve

Lum. Name: METRO-4FT-40W	Lum. Catelog:	Test ID: 001
Lamp Name: SMD	Lamp Catelog: LED	Test Lab: Volnic IES
Manufacture: Light Blue USA / Rayhil	Test Machine:GON-2000	Test Date: 2018/08/15

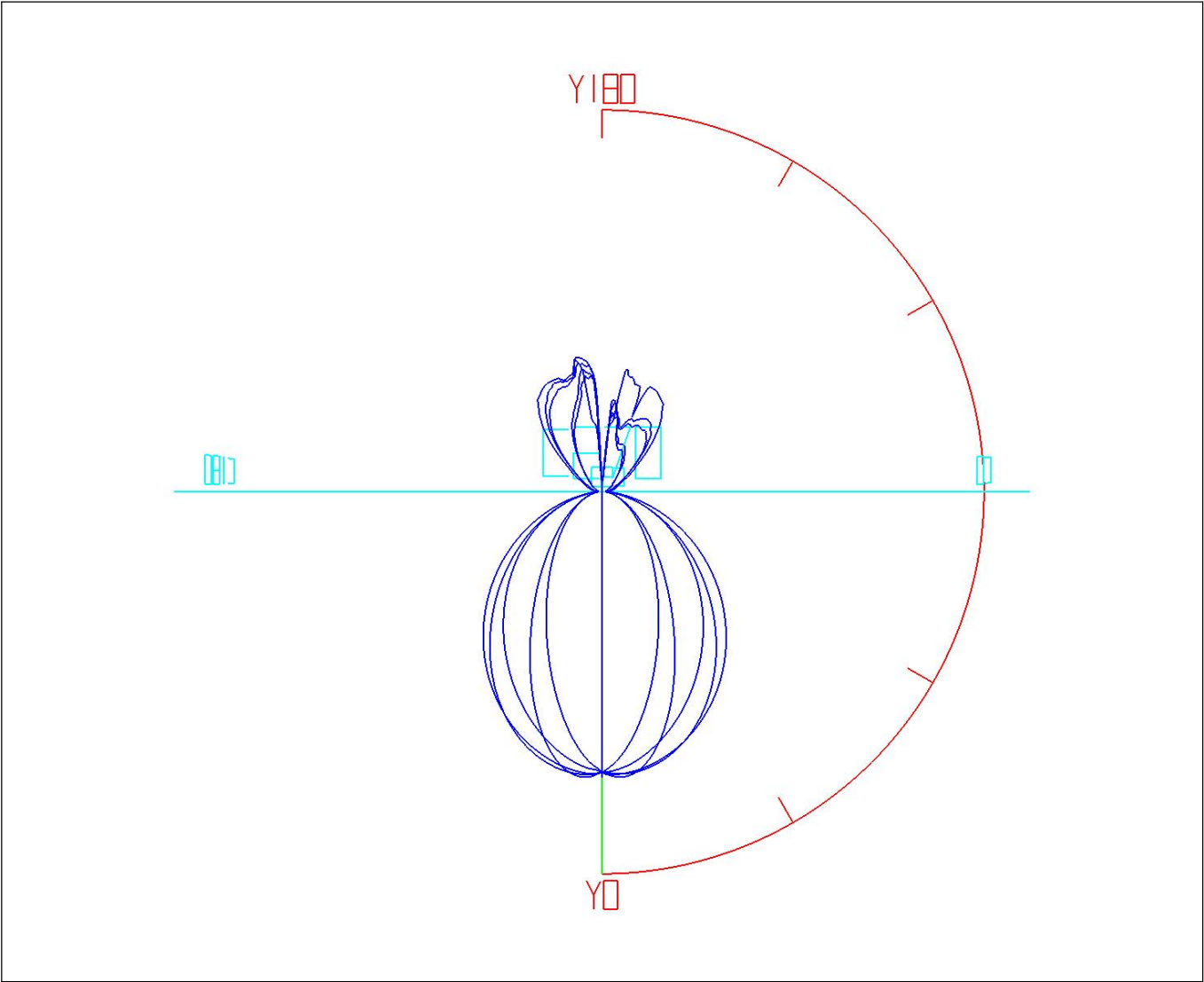
C Plane Distribution Diagram



3D Light Intensity Distribution Modal

Lum. Name: METRO-4FT-40W	Lum. Catelog:	Test ID: 001
Lamp Name: SMD	Lamp Catelog: LED	Test Lab: Volnic IES
Manufacture: Light Blue USA / Rayhil	Test Machine:GON-2000	Test Date: 2018/08/15

3D Light Intensity Distribution Modal



Curves:

View Angles:

3D Model

Orient:0

Fixture

Tilt:0

Vert. HUD

Roll:0

Hori. HUD

Spin:0

IES Indoor Report

Photometric Filename:METRO-4FT-40W.IES

Zonal Flux Tabulation

Zone ( γ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone ( γ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	0.91	0.91	0.03	0.03	47.0-48.0	45.01	1540.13	1.32	45.15
1.0-2.0	2.72	3.63	0.08	0.11	48.0-49.0	44.59	1584.72	1.31	46.45
2.0-3.0	4.54	8.17	0.13	0.24	49.0-50.0	44.12	1628.84	1.29	47.75
3.0-4.0	6.35	14.52	0.19	0.43	50.0-51.0	43.58	1672.42	1.28	49.02
4.0-5.0	8.14	22.66	0.24	0.66	51.0-52.0	42.99	1715.40	1.26	50.28
5.0-6.0	9.93	32.59	0.29	0.96	52.0-53.0	42.34	1757.74	1.24	51.52
6.0-7.0	11.70	44.29	0.34	1.30	53.0-54.0	41.65	1799.39	1.22	52.74
7.0-8.0	13.45	57.73	0.39	1.69	54.0-55.0	40.90	1840.29	1.20	53.94
8.0-9.0	15.17	72.90	0.44	2.14	55.0-56.0	40.11	1880.40	1.18	55.12
9.0-10.0	16.87	89.77	0.49	2.63	56.0-57.0	39.26	1919.66	1.15	56.27
10.0-11.0	18.54	108.31	0.54	3.17	57.0-58.0	38.36	1958.03	1.12	57.39
11.0-12.0	20.18	128.48	0.59	3.77	58.0-59.0	37.42	1995.45	1.10	58.49
12.0-13.0	21.78	150.27	0.64	4.40	59.0-60.0	36.44	2031.89	1.07	59.56
13.0-14.0	23.36	173.62	0.68	5.09	60.0-61.0	35.43	2067.32	1.04	60.60
14.0-15.0	24.89	198.51	0.73	5.82	61.0-62.0	34.37	2101.69	1.01	61.61
15.0-16.0	26.38	224.90	0.77	6.59	62.0-63.0	33.27	2134.96	0.98	62.58
16.0-17.0	27.84	252.73	0.82	7.41	63.0-64.0	32.13	2167.09	0.94	63.52
17.0-18.0	29.24	281.98	0.86	8.27	64.0-65.0	30.96	2198.05	0.91	64.43
18.0-19.0	30.61	312.58	0.90	9.16	65.0-66.0	29.77	2227.82	0.87	65.30
19.0-20.0	31.92	344.51	0.94	10.10	66.0-67.0	28.55	2256.36	0.84	66.14
20.0-21.0	33.18	377.69	0.97	11.07	67.0-68.0	27.30	2283.66	0.80	66.94
21.0-22.0	34.40	412.09	1.01	12.08	68.0-69.0	26.02	2309.69	0.76	67.70
22.0-23.0	35.55	447.64	1.04	13.12	69.0-70.0	24.72	2334.41	0.72	68.43
23.0-24.0	36.66	484.30	1.07	14.20	70.0-71.0	23.41	2357.82	0.69	69.11
24.0-25.0	37.71	522.01	1.11	15.30	71.0-72.0	22.09	2379.91	0.65	69.76
25.0-26.0	38.71	560.72	1.13	16.44	72.0-73.0	20.76	2400.68	0.61	70.37
26.0-27.0	39.64	600.36	1.16	17.60	73.0-74.0	19.43	2420.10	0.57	70.94
27.0-28.0	40.52	640.88	1.19	18.79	74.0-75.0	18.08	2438.18	0.53	71.47
28.0-29.0	41.34	682.22	1.21	20.00	75.0-76.0	16.73	2454.91	0.49	71.96
29.0-30.0	42.10	724.31	1.23	21.23	76.0-77.0	15.39	2470.31	0.45	72.41
30.0-31.0	42.79	767.11	1.25	22.49	77.0-78.0	14.07	2484.38	0.41	72.82
31.0-32.0	43.43	810.54	1.27	23.76	78.0-79.0	12.76	2497.13	0.37	73.20
32.0-33.0	44.00	854.54	1.29	25.05	79.0-80.0	11.47	2508.60	0.34	73.53
33.0-34.0	44.51	899.05	1.30	26.35	80.0-81.0	10.21	2518.81	0.30	73.83
34.0-35.0	44.95	944.00	1.32	27.67	81.0-82.0	8.99	2527.79	0.26	74.10
35.0-36.0	45.34	989.34	1.33	29.00	82.0-83.0	7.82	2535.61	0.23	74.33
36.0-37.0	45.66	1034.99	1.34	30.34	83.0-84.0	6.72	2542.33	0.20	74.52
37.0-38.0	45.91	1080.91	1.35	31.68	84.0-85.0	5.69	2548.01	0.17	74.69
38.0-39.0	46.10	1127.01	1.35	33.04	85.0-86.0	4.72	2552.73	0.14	74.83
39.0-40.0	46.23	1173.24	1.36	34.39	86.0-87.0	3.93	2556.66	0.12	74.94
40.0-41.0	46.29	1219.53	1.36	35.75	87.0-88.0	3.39	2560.05	0.10	75.04
41.0-42.0	46.29	1265.81	1.36	37.10	88.0-89.0	3.04	2563.09	0.09	75.13
42.0-43.0	46.23	1312.05	1.36	38.46	89.0-90.0	2.85	2565.93	0.08	75.21
43.0-44.0	46.11	1358.15	1.35	39.81	90.0-91.0	2.77	2568.71	0.08	75.30
44.0-45.0	45.92	1404.08	1.35	41.16	91.0-92.0	2.77	2571.48	0.08	75.38
45.0-46.0	45.67	1449.75	1.34	42.50	92.0-93.0	2.82	2574.30	0.08	75.46
46.0-47.0	45.37	1495.12	1.33	43.83	93.0-94.0	2.91	2577.21	0.09	75.54

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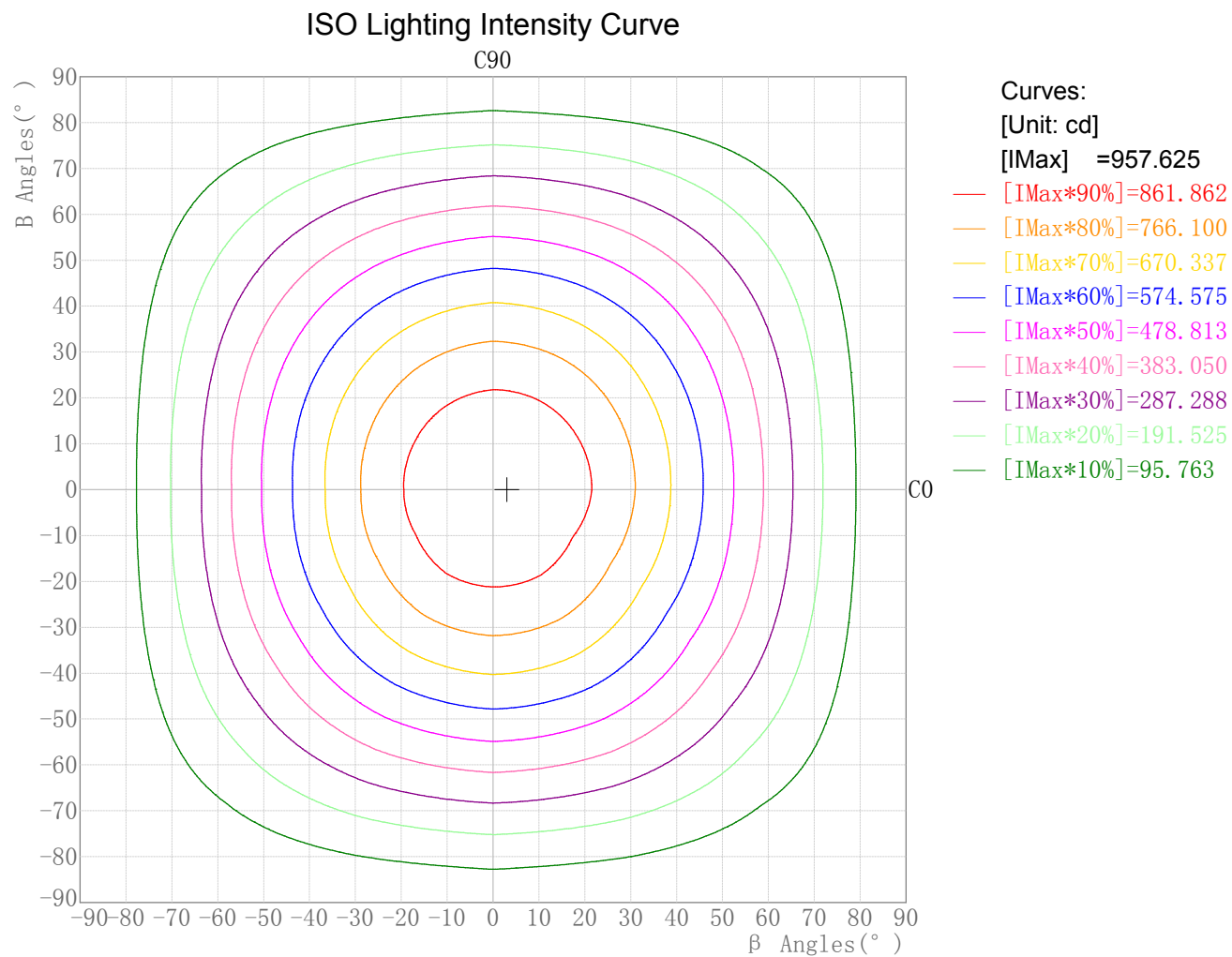
Photometric Filename:METRO-4FT-40W.IES

Zonal Flux Tabulation - (Cont.)

Zone ( γ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone ( γ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94. 0-95. 0	3. 03	2580. 24	0. 09	75. 63	141. 0-142. 0	16. 88	3052. 91	0. 49	89. 49
95. 0-96. 0	3. 22	2583. 47	0. 09	75. 73	142. 0-143. 0	16. 72	3069. 63	0. 49	89. 98
96. 0-97. 0	3. 45	2586. 92	0. 10	75. 83	143. 0-144. 0	16. 54	3086. 17	0. 48	90. 46
97. 0-98. 0	3. 66	2590. 57	0. 11	75. 94	144. 0-145. 0	16. 34	3102. 51	0. 48	90. 94
98. 0-99. 0	3. 86	2594. 43	0. 11	76. 05	145. 0-146. 0	16. 12	3118. 62	0. 47	91. 41
99. 0-100. 0	4. 08	2598. 51	0. 12	76. 17	146. 0-147. 0	15. 85	3134. 47	0. 46	91. 88
100. 0-101. 0	4. 30	2602. 81	0. 13	76. 30	147. 0-148. 0	15. 59	3150. 06	0. 46	92. 34
101. 0-102. 0	4. 50	2607. 31	0. 13	76. 43	148. 0-149. 0	15. 30	3165. 36	0. 45	92. 78
102. 0-103. 0	4. 70	2612. 01	0. 14	76. 56	149. 0-150. 0	14. 95	3180. 31	0. 44	93. 22
103. 0-104. 0	4. 91	2616. 92	0. 14	76. 71	150. 0-151. 0	14. 58	3194. 89	0. 43	93. 65
104. 0-105. 0	5. 13	2622. 04	0. 15	76. 86	151. 0-152. 0	14. 18	3209. 07	0. 42	94. 07
105. 0-106. 0	5. 33	2627. 37	0. 16	77. 01	152. 0-153. 0	13. 83	3222. 90	0. 41	94. 47
106. 0-107. 0	5. 53	2632. 90	0. 16	77. 18	153. 0-154. 0	13. 54	3236. 44	0. 40	94. 87
107. 0-108. 0	5. 73	2638. 63	0. 17	77. 34	154. 0-155. 0	13. 25	3249. 69	0. 39	95. 26
108. 0-109. 0	5. 93	2644. 56	0. 17	77. 52	155. 0-156. 0	12. 92	3262. 61	0. 38	95. 64
109. 0-110. 0	6. 12	2650. 68	0. 18	77. 70	156. 0-157. 0	12. 49	3275. 09	0. 37	96. 00
110. 0-111. 0	6. 34	2657. 02	0. 19	77. 88	157. 0-158. 0	11. 88	3286. 97	0. 35	96. 35
111. 0-112. 0	6. 62	2663. 64	0. 19	78. 08	158. 0-159. 0	11. 42	3298. 39	0. 33	96. 68
112. 0-113. 0	6. 95	2670. 60	0. 20	78. 28	159. 0-160. 0	11. 09	3309. 48	0. 32	97. 01
113. 0-114. 0	7. 29	2677. 89	0. 21	78. 50	160. 0-161. 0	10. 62	3320. 10	0. 31	97. 32
114. 0-115. 0	7. 65	2685. 54	0. 22	78. 72	161. 0-162. 0	10. 14	3330. 24	0. 30	97. 62
115. 0-116. 0	8. 06	2693. 60	0. 24	78. 96	162. 0-163. 0	9. 66	3339. 90	0. 28	97. 90
116. 0-117. 0	8. 49	2702. 09	0. 25	79. 21	163. 0-164. 0	9. 20	3349. 11	0. 27	98. 17
117. 0-118. 0	8. 91	2711. 00	0. 26	79. 47	164. 0-165. 0	8. 75	3357. 85	0. 26	98. 43
118. 0-119. 0	9. 36	2720. 36	0. 27	79. 74	165. 0-166. 0	8. 30	3366. 15	0. 24	98. 67
119. 0-120. 0	9. 84	2730. 20	0. 29	80. 03	166. 0-167. 0	7. 84	3374. 00	0. 23	98. 90
120. 0-121. 0	10. 31	2740. 51	0. 30	80. 33	167. 0-168. 0	7. 29	3381. 29	0. 21	99. 11
121. 0-122. 0	10. 77	2751. 28	0. 32	80. 65	168. 0-169. 0	6. 45	3387. 74	0. 19	99. 30
122. 0-123. 0	11. 24	2762. 51	0. 33	80. 98	169. 0-170. 0	5. 51	3393. 25	0. 16	99. 46
123. 0-124. 0	11. 72	2774. 24	0. 34	81. 32	170. 0-171. 0	4. 72	3397. 97	0. 14	99. 60
124. 0-125. 0	12. 21	2786. 44	0. 36	81. 68	171. 0-172. 0	3. 98	3401. 95	0. 12	99. 72
125. 0-126. 0	12. 66	2799. 10	0. 37	82. 05	172. 0-173. 0	3. 35	3405. 30	0. 10	99. 82
126. 0-127. 0	13. 11	2812. 22	0. 38	82. 43	173. 0-174. 0	2. 59	3407. 89	0. 08	99. 89
127. 0-128. 0	13. 61	2825. 82	0. 40	82. 83	174. 0-175. 0	1. 72	3409. 60	0. 05	99. 94
128. 0-129. 0	14. 12	2839. 95	0. 41	83. 25	175. 0-176. 0	1. 05	3410. 65	0. 03	99. 97
129. 0-130. 0	14. 64	2854. 58	0. 43	83. 68	176. 0-177. 0	0. 50	3411. 15	0. 01	99. 99
130. 0-131. 0	15. 11	2869. 69	0. 44	84. 12	177. 0-178. 0	0. 21	3411. 36	0. 01	100. 00
131. 0-132. 0	15. 53	2885. 21	0. 46	84. 57	178. 0-179. 0	0. 11	3411. 47	0. 00	100. 00
132. 0-133. 0	15. 93	2901. 14	0. 47	85. 04	179. 0-180. 0	0. 04	3411. 51	0. 00	100. 00
133. 0-134. 0	16. 29	2917. 43	0. 48	85. 52	Conical surface Flux(90deg):1404. 076 %lm = 41. 16 %lamp = 41. 16				
134. 0-135. 0	16. 62	2934. 05	0. 49	86. 00					
135. 0-136. 0	16. 85	2950. 90	0. 49	86. 50					
136. 0-137. 0	16. 97	2967. 87	0. 50	87. 00					
137. 0-138. 0	17. 04	2984. 91	0. 50	87. 50	Conical surface Flux(120deg):2031. 891 %lm = 59. 56 %lamp = 59. 56				
138. 0-139. 0	17. 06	3001. 97	0. 50	88. 00					
139. 0-140. 0	17. 06	3019. 02	0. 50	88. 50					
140. 0-141. 0	17. 00	3036. 03	0. 50	88. 99					

Rectangle ISO Lighting Intensity Diagram

Lum. Name: METRO-4FT-40W	Lum. Catelog:	Test ID: 001
Lamp Name: SMD	Lamp Catelog: LED	Test Lab: Volnic IES
Manufacture: Light Blue USA / Rayhil	Test Machine:GON-2000	Test Date: 2018/08/15

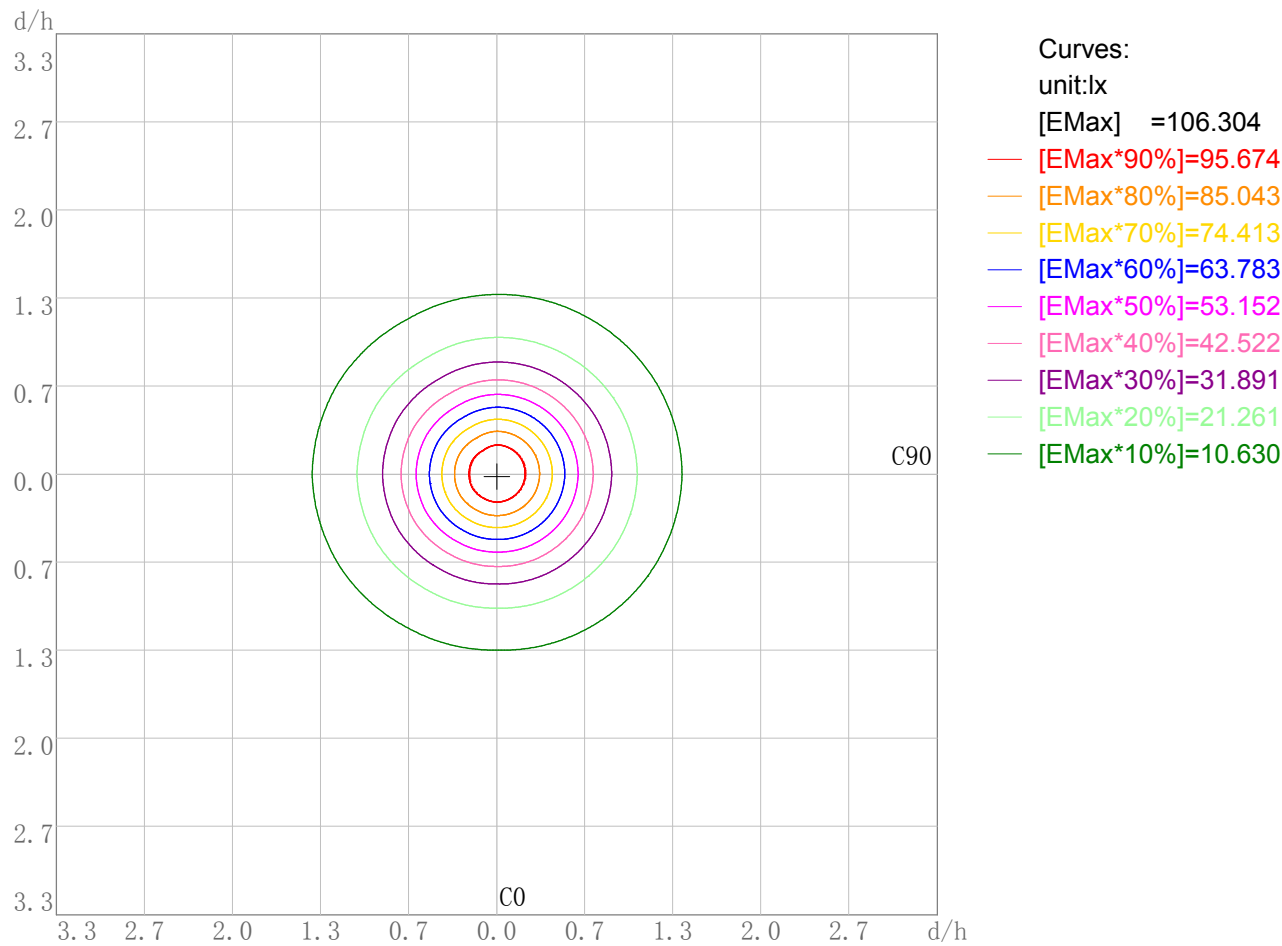


Maximum Light Intensity(cd): 957.63  
Maximum Cand.@Angle: H=3.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: METRO-4FT-40W	Lum. Catelog:	Test ID: 001
Lamp Name: SMD	Lamp Catelog: LED	Test Lab: Volnic IES
Manufacture: Light Blue USA / Rayhil	Test Machine:GON-2000	Test Date: 2018/08/15

Plane ISO-Illuminance Curve



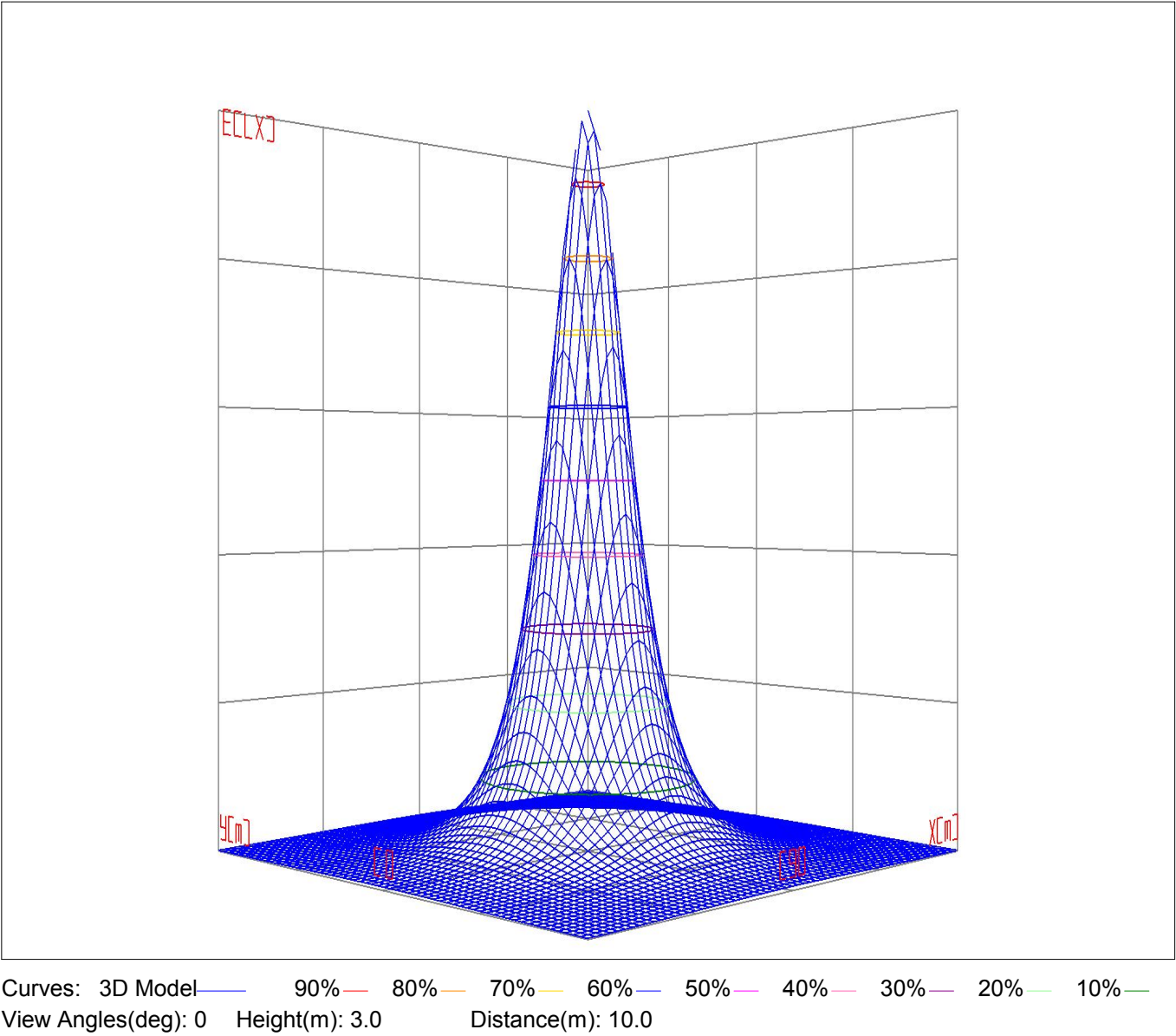
Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 106.30  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0



3D Plane ISO Illuminance Diagram

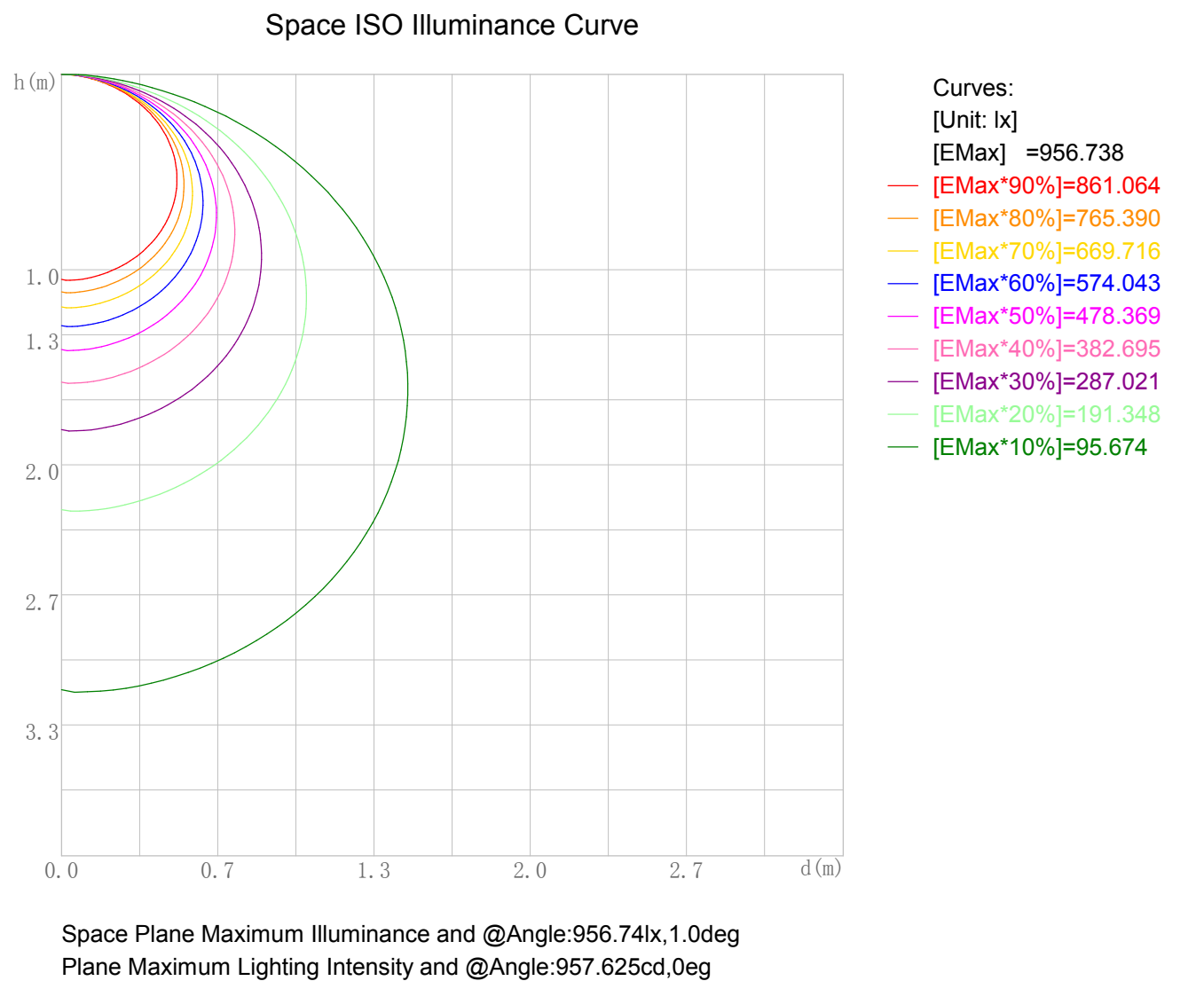
Lum. Name: METRO-4FT-40W	Lum. Catelog:	Test ID: 001
Lamp Name: SMD	Lamp Catelog: LED	Test Lab: Volnic IES
Manufacture: Light Blue USA / Rayhil	Test Machine:GON-2000	Test Date: 2018/08/15

3D Plane Illuminance Modal



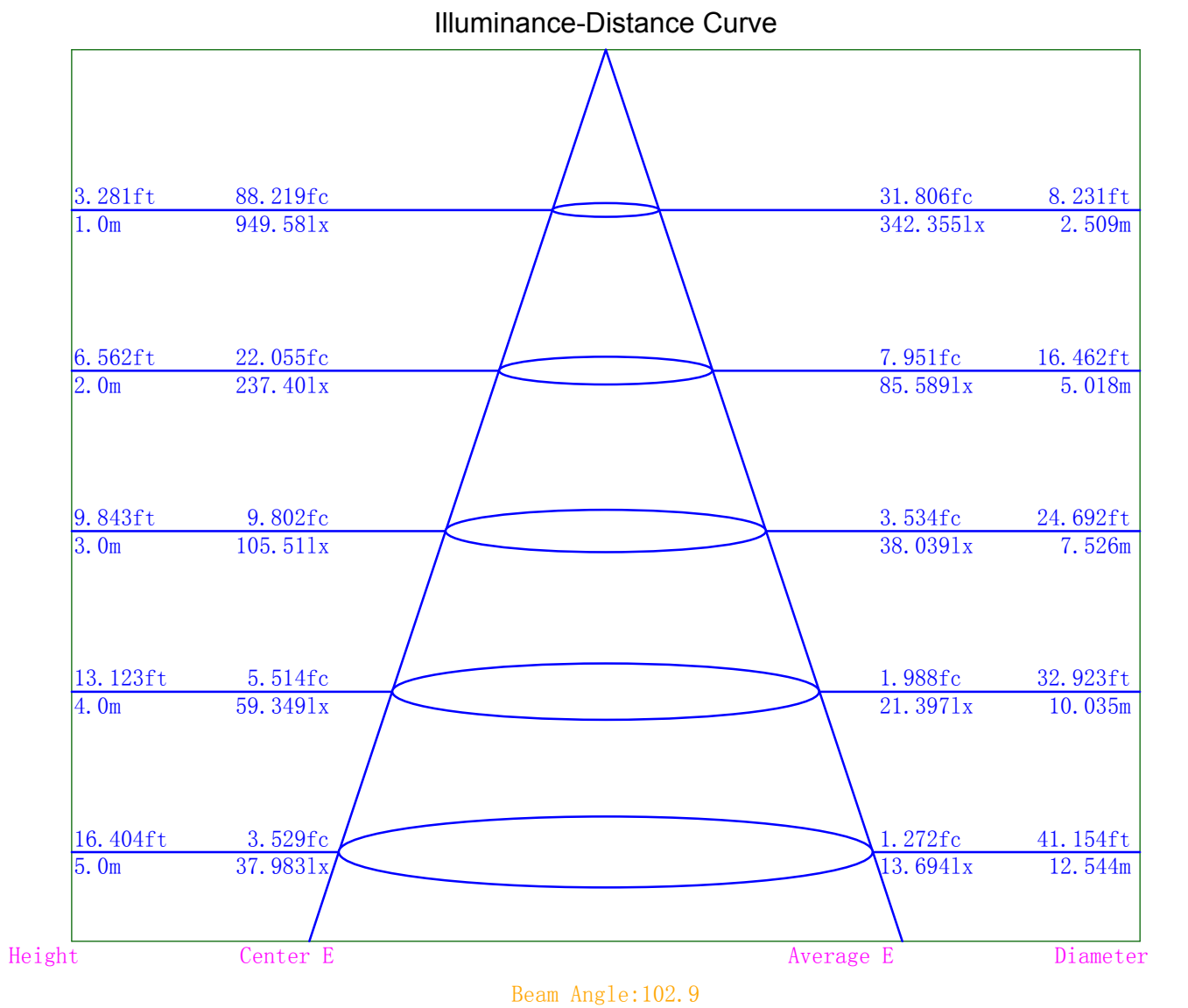
Space ISO Illuminance Diagram

Lum. Name: METRO-4FT-40W	Lum. Catelog:	Test ID: 001
Lamp Name: SMD	Lamp Catelog: LED	Test Lab: Volnic IES
Manufacture: Light Blue USA / Rayhil	Test Machine:GON-2000	Test Date: 2018/08/15



Illuminance-Distance Diagram

Lum. Name: METRO-4FT-40W	Lum. Catelog:	Test ID: 001
Lamp Name: SMD	Lamp Catelog: LED	Test Lab: Volnic IES
Manufacture: Light Blue USA / Rayhil	Test Machine:GON-2000	Test Date: 2018/08/15



Indoor Luminance Limiting Curves

Lum. Name: METRO-4FT-40W	Lum. Catalog:	Test ID: 001
Lamp Name: SMD	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture: Light Blue USA / Rayhil	Test Machine:GON-2000	Test Date: 2018/08/15

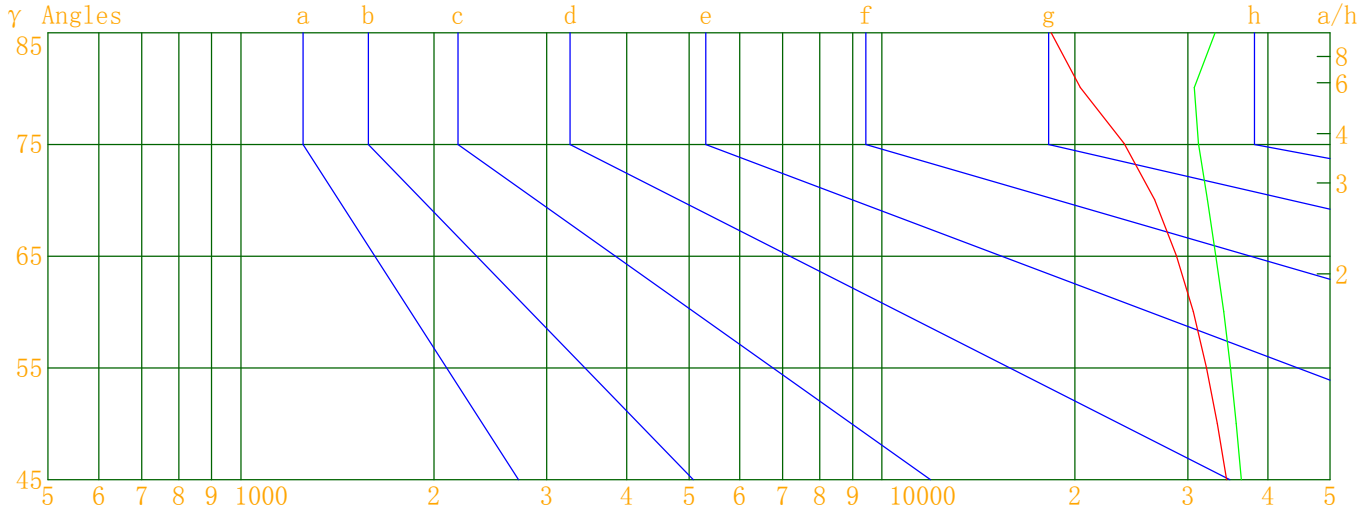
Glare Grade Table

GI	Quality	Using Illuminance							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E	a				2000	1000	500	<=300
			b	c	d	e	f	g	h

Luminance Table

Gama (deg)	45	50	55	60	65	70	75	80	85
C0	34504	33371	32078	30594	28808	26631	23864	20398	18361
C90	36357	35697	34960	34117	33180	32172	31180	30711	33081

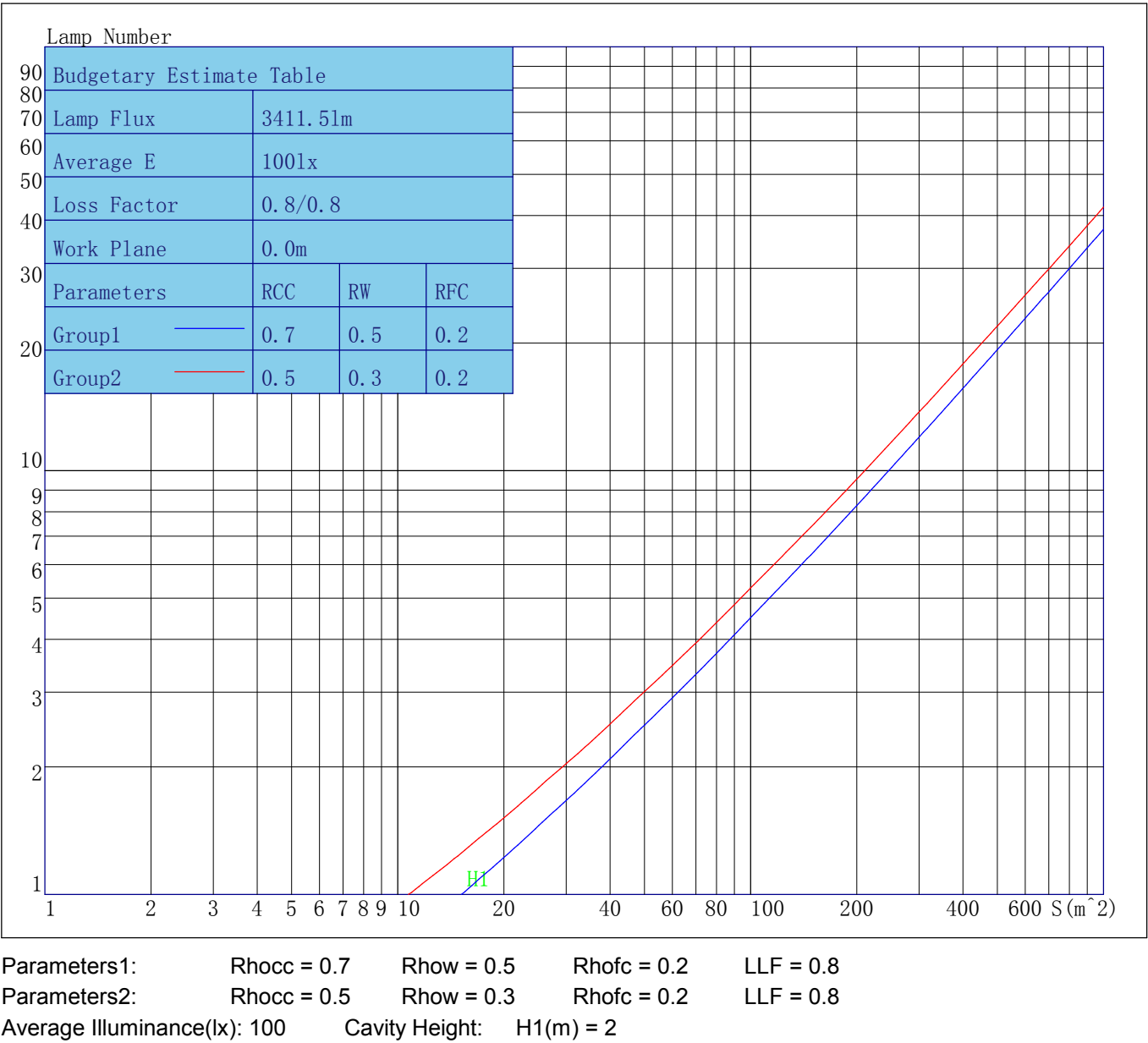
Luminance Limiting Curve



Luminous Size: Length(m)=1.200 Width(m)=0.020 Height(m)=0.000 Area(m^2)=0.024000  
Luminous Type: Without Luminous Side  
Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: METRO-4FT-40W	Lum. Catelog:	Test ID: 001
Lamp Name: SMD	Lamp Catelog: LED	Test Lab: Volnic IES
Manufacture: Light Blue USA / Rayhil	Test Machine:GON-2000	Test Date: 2018/08/15



Indoor Coefficient of Utilization Table

Lum. Name: METRO-4FT-40W	Lum. Catelog:	Test ID: 001
Lamp Name: SMD	Lamp Catelog: LED	Test Lab: Volnic IES
Manufacture: Light Blue USA / Rayhil	Test Machine:GON-2000	Test Date: 2018/08/15

Coefficients of Utilization – Zonal Cavity Method																		
Coef.	Effective Floor Cavity Reflectance RFC=0.20																	
RhoCC (%)	80				70				50			30			10			0
RhoW (%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization(%)																	
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	94	91	98	94	90	87	85	82	80	77	75	73	70	68	67	63
2	94	86	79	74	89	82	76	71	75	70	66	68	64	61	61	58	56	52
3	86	76	68	62	81	72	65	59	66	60	55	60	55	51	54	51	47	44
4	78	67	59	52	74	64	56	50	58	52	47	53	48	44	48	44	41	38
5	72	60	51	45	68	57	49	43	52	46	41	48	42	38	44	39	36	33
6	66	54	45	39	63	51	44	38	47	41	36	43	38	33	40	35	31	29
7	62	49	40	34	58	47	39	33	43	36	31	39	34	30	36	31	28	25
8	57	44	36	31	54	43	35	30	39	33	28	36	31	26	33	28	25	23
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	22	20
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

# IES Indoor Report

## Photometric Filename:METRO-4FT-40W.IES

### Unified Glare Rating Table

Lum. Name: METRO-4FT-40W	Lum. Catalog:	Test ID: 001
Lamp Name: SMD	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture: Light Blue USA / Rayhil	Test Machine:GON-2000	Test Date: 2018/08/15

### Unified Glare Rating Table

Ceiling RCC	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
Wall RW	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
Floor RFC	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room Size	Vewed crosswise					Vewed endwise				
X=2H    Y=2H	22.6	23.7	23.3	24.5	25.3	23.0	24.2	23.7	24.9	25.8
	24.0	25.1	24.8	25.8	26.7	24.7	25.7	25.4	26.5	27.4
	24.6	25.6	25.3	26.3	27.2	25.4	26.4	26.1	27.1	28.0
	25.0	25.9	25.7	26.6	27.5	26.0	26.9	26.7	27.7	28.6
	25.1	25.9	25.8	26.7	27.6	26.2	27.1	27.0	27.9	28.8
	25.1	26.0	25.9	26.7	27.7	26.4	27.2	27.2	28.0	28.9
X=4H    Y=2H	23.3	24.3	24.1	25.0	25.9	23.7	24.6	24.4	25.4	26.3
	24.9	25.8	25.7	26.5	27.5	25.5	26.3	26.3	27.1	28.0
	25.6	26.3	26.4	27.1	28.1	26.3	27.1	27.1	27.9	28.8
	26.1	26.7	26.8	27.5	28.5	27.1	27.7	27.8	28.5	29.5
	26.2	26.8	27.0	27.6	28.6	27.3	27.9	28.1	28.8	29.7
	26.3	26.9	27.1	27.7	28.7	27.6	28.1	28.4	29.0	29.9
X=8H    Y=4H	25.9	26.5	26.7	27.3	28.3	26.6	27.2	27.4	28.0	29.0
	26.5	27.0	27.3	27.8	28.9	27.4	27.9	28.3	28.8	29.8
	26.7	27.1	27.5	28.0	29.0	27.8	28.3	28.6	29.1	30.1
	26.9	27.3	27.7	28.1	29.1	28.2	28.5	29.0	29.4	30.4
X=12H    Y=4H	25.9	26.5	26.7	27.3	28.3	26.6	27.1	27.4	27.9	28.9
	26.6	27.0	27.4	27.8	28.9	27.5	27.9	28.3	28.7	29.8
	26.8	27.2	27.7	28.0	29.1	27.9	28.3	28.7	29.1	30.1
Variations with the objerver position at spacings										
S=1.0H	0.5/-0.5					0.4/-0.4				
S=1.5H	1.0/-1.1					0.7/-0.7				
S=2.0H	1.2/-1.4					0.8/-1.0				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	2.6					3.0				

Calculation is according to the CIE Pub.117,data has been corrected,refers to the lamp's lumen

**IES Indoor Report**  
**Photometric Filename:METRO-4FT-40W.IES**

**Candela Tabulation**

V/H	C0. 0	C30. 0	C60. 0	C90. 0	C120. 0	C150. 0	C180. 0	C210. 0	C240. 0	C270. 0	C300. 0	C330. 0
γ 0. 0	949. 58	949. 58	949. 58	949. 58	949. 58	949. 58	949. 58	949. 58	949. 58	949. 58	949. 58	949. 58
γ 1. 0	957. 17	951. 76	949. 03	946. 44	944. 95	945. 12	954. 49	949. 44	947. 50	946. 16	946. 40	947. 09
γ 2. 0	957. 46	952. 25	949. 09	945. 95	944. 29	945. 57	955. 51	950. 32	946. 64	945. 51	946. 42	947. 22
γ 3. 0	957. 63	952. 30	948. 54	944. 98	944. 14	946. 36	954. 85	949. 87	946. 49	944. 31	945. 81	946. 83
γ 4. 0	956. 80	951. 69	947. 64	943. 71	943. 89	945. 30	952. 74	948. 05	945. 76	942. 89	944. 89	945. 70
γ 5. 0	955. 31	950. 51	946. 37	942. 06	942. 87	943. 29	950. 10	945. 62	944. 39	941. 08	943. 52	944. 16
γ 6. 0	953. 04	948. 91	944. 64	940. 16	941. 03	940. 97	946. 85	942. 71	942. 19	938. 92	941. 91	942. 01
γ 7. 0	950. 53	946. 53	942. 46	937. 73	938. 50	938. 08	943. 23	939. 44	939. 45	936. 23	939. 65	939. 18
γ 8. 0	947. 16	943. 51	939. 74	934. 94	935. 43	934. 69	939. 18	935. 58	936. 39	933. 46	936. 78	935. 81
γ 9. 0	943. 05	939. 89	936. 55	932. 01	932. 02	930. 59	934. 57	931. 20	932. 96	930. 15	933. 64	931. 80
γ 10. 0	938. 86	935. 68	933. 06	928. 48	927. 90	926. 34	929. 32	926. 39	928. 72	926. 36	929. 88	927. 24
γ 11. 0	934. 33	931. 32	928. 98	924. 72	923. 67	921. 53	923. 82	921. 04	924. 25	922. 44	925. 80	922. 45
γ 12. 0	929. 19	926. 39	924. 70	920. 48	919. 07	916. 21	917. 71	915. 20	919. 50	918. 04	921. 29	917. 23
γ 13. 0	923. 72	921. 04	919. 92	916. 09	914. 18	910. 39	911. 27	909. 17	914. 59	913. 30	916. 60	911. 68
γ 14. 0	917. 90	915. 66	914. 67	911. 12	908. 66	904. 43	904. 50	902. 66	909. 16	908. 41	911. 41	905. 77
γ 15. 0	911. 71	909. 69	908. 96	905. 91	902. 80	898. 02	897. 55	895. 92	903. 25	902. 90	905. 63	899. 48
γ 16. 0	905. 16	903. 26	902. 80	900. 48	896. 59	891. 35	890. 29	888. 86	896. 91	897. 05	899. 49	892. 94
γ 17. 0	898. 29	896. 65	896. 50	894. 55	890. 13	884. 28	882. 48	881. 31	890. 41	891. 12	892. 85	885. 75
γ 18. 0	891. 09	889. 83	889. 93	888. 35	883. 31	876. 84	874. 36	873. 58	883. 28	884. 68	886. 07	878. 40
γ 19. 0	883. 32	882. 54	882. 97	881. 83	876. 07	869. 23	865. 93	865. 51	876. 08	877. 98	879. 02	870. 94
γ 20. 0	875. 01	874. 76	875. 64	875. 00	868. 38	861. 09	857. 04	857. 06	868. 32	870. 96	871. 63	862. 87
γ 21. 0	866. 60	866. 64	868. 01	867. 72	860. 52	852. 57	847. 88	848. 30	860. 42	863. 46	863. 81	854. 55
γ 22. 0	857. 60	858. 20	860. 01	860. 14	852. 35	843. 87	838. 21	838. 98	852. 05	855. 98	855. 79	845. 74
γ 23. 0	848. 65	849. 52	851. 88	852. 40	843. 89	834. 79	828. 37	829. 76	843. 43	847. 92	847. 36	836. 66
γ 24. 0	839. 46	840. 54	843. 40	844. 33	835. 22	825. 49	818. 29	819. 99	834. 51	839. 65	838. 76	827. 37
γ 25. 0	829. 58	831. 10	834. 60	835. 93	826. 13	815. 80	807. 86	810. 04	825. 50	831. 26	829. 85	817. 90
γ 26. 0	819. 55	821. 53	825. 59	827. 31	816. 82	805. 93	797. 41	799. 84	816. 27	822. 50	820. 79	808. 00
γ 27. 0	809. 40	811. 52	816. 08	818. 23	807. 17	795. 51	786. 55	789. 30	806. 57	813. 27	811. 35	797. 83
γ 28. 0	798. 98	801. 29	806. 57	809. 00	797. 61	785. 03	775. 33	778. 45	796. 73	803. 88	801. 72	787. 28
γ 29. 0	788. 28	790. 82	796. 87	799. 43	787. 61	774. 31	763. 91	767. 55	786. 46	794. 32	791. 63	776. 60
γ 30. 0	777. 33	780. 24	786. 66	789. 80	777. 45	763. 50	752. 22	756. 40	776. 20	784. 53	781. 38	765. 79
γ 31. 0	765. 98	769. 27	776. 27	779. 83	766. 87	752. 41	740. 42	744. 98	765. 63	774. 49	771. 10	754. 62
γ 32. 0	754. 26	758. 09	765. 58	769. 65	756. 03	740. 98	728. 51	733. 33	754. 79	764. 39	760. 64	743. 27
γ 33. 0	742. 30	746. 58	754. 69	759. 05	745. 03	729. 28	716. 18	721. 55	743. 73	753. 87	749. 69	731. 60
γ 34. 0	730. 31	735. 01	743. 67	748. 30	733. 84	717. 38	703. 62	709. 36	732. 56	742. 89	738. 52	719. 72
γ 35. 0	718. 13	723. 01	732. 34	737. 36	722. 55	705. 43	690. 89	697. 28	720. 90	731. 86	727. 13	707. 77
γ 36. 0	705. 80	711. 02	720. 85	726. 21	710. 97	693. 33	677. 92	684. 70	709. 22	720. 76	715. 44	695. 51
γ 37. 0	693. 13	698. 81	709. 11	714. 95	699. 11	680. 98	664. 89	672. 28	697. 43	709. 41	703. 87	683. 19
γ 38. 0	680. 12	686. 31	697. 18	703. 46	686. 96	668. 43	651. 72	659. 59	685. 38	697. 85	691. 85	670. 58
γ 39. 0	667. 01	673. 49	685. 00	691. 55	674. 66	655. 49	638. 49	646. 68	673. 05	686. 07	679. 73	657. 70
γ 40. 0	653. 75	660. 56	672. 69	679. 49	662. 24	642. 51	624. 80	633. 54	660. 60	673. 95	667. 47	644. 73
γ 41. 0	640. 47	647. 58	660. 17	667. 39	649. 80	629. 41	611. 12	620. 14	647. 92	661. 71	654. 76	631. 54
γ 42. 0	627. 13	634. 48	647. 66	655. 23	637. 22	616. 10	597. 45	606. 76	635. 12	649. 50	642. 13	618. 24
γ 43. 0	613. 45	620. 95	634. 84	642. 73	624. 20	602. 68	583. 66	593. 34	622. 19	637. 12	629. 22	604. 95
γ 44. 0	599. 57	607. 58	621. 56	630. 03	611. 11	589. 24	569. 90	579. 75	609. 24	624. 51	616. 36	591. 45
γ 45. 0	585. 54	593. 75	608. 42	617. 01	597. 97	575. 47	556. 01	566. 05	596. 04	611. 58	603. 25	577. 82
γ 46. 0	571. 70	579. 86	595. 18	603. 95	584. 59	561. 72	541. 81	552. 17	582. 73	598. 49	589. 89	563. 89



**IES Indoor Report**  
**Photometric Filename:METRO-4FT-40W.IES**

**Candela Tabulation - (Cont.)**

V/H	C0. 0	C30. 0	C60. 0	C90. 0	C120. 0	C150. 0	C180. 0	C210. 0	C240. 0	C270. 0	C300. 0	C330. 0
γ 47. 0	557. 68	565. 97	581. 72	590. 88	571. 29	548. 04	527. 58	538. 41	569. 18	585. 49	576. 36	550. 09
γ 48. 0	543. 53	551. 96	568. 22	577. 62	557. 85	534. 15	513. 32	524. 43	555. 64	572. 43	562. 88	536. 12
γ 49. 0	529. 32	537. 76	554. 52	564. 21	544. 17	520. 04	499. 12	510. 51	542. 05	559. 04	549. 40	522. 12
γ 50. 0	514. 81	523. 46	540. 62	550. 70	530. 34	505. 95	484. 70	496. 41	528. 41	545. 92	535. 55	508. 00
γ 51. 0	500. 19	508. 98	526. 65	536. 95	516. 40	491. 62	470. 26	482. 27	514. 58	532. 33	521. 84	493. 67
γ 52. 0	485. 60	494. 40	512. 62	523. 05	502. 48	477. 35	455. 69	467. 83	500. 66	518. 61	507. 86	479. 15
γ 53. 0	471. 09	479. 87	498. 63	509. 13	488. 56	462. 93	441. 07	453. 39	486. 60	504. 81	493. 71	464. 77
γ 54. 0	456. 34	465. 36	484. 51	495. 23	474. 57	448. 59	426. 54	439. 11	472. 54	491. 20	479. 51	450. 33
γ 55. 0	441. 58	450. 80	470. 22	481. 25	460. 37	434. 32	412. 01	424. 86	458. 51	477. 30	465. 39	435. 91
γ 56. 0	426. 64	435. 98	455. 84	466. 99	445. 97	419. 79	397. 41	410. 45	444. 38	463. 24	451. 31	421. 35
γ 57. 0	411. 64	421. 05	441. 33	452. 63	431. 52	405. 03	382. 61	395. 97	430. 08	449. 15	437. 04	406. 73
γ 58. 0	396. 68	406. 11	426. 88	438. 26	417. 17	390. 42	367. 82	381. 35	415. 70	434. 95	422. 53	391. 97
γ 59. 0	381. 86	391. 28	412. 53	423. 89	402. 85	375. 84	353. 13	366. 86	401. 25	420. 65	407. 94	377. 41
γ 60. 0	367. 13	376. 45	398. 01	409. 41	388. 53	361. 44	338. 47	352. 36	386. 75	406. 49	393. 54	362. 72
γ 61. 0	352. 05	361. 59	383. 38	395. 08	374. 00	346. 87	323. 96	338. 04	372. 55	392. 29	379. 00	348. 16
γ 62. 0	337. 07	346. 78	368. 57	380. 60	359. 40	332. 46	309. 30	323. 67	358. 28	377. 99	364. 67	333. 64
γ 63. 0	321. 94	331. 64	353. 93	365. 80	344. 84	317. 74	294. 88	309. 28	343. 88	363. 65	350. 25	319. 01
γ 64. 0	307. 05	316. 68	339. 19	351. 16	330. 26	303. 14	280. 23	294. 89	329. 32	349. 11	335. 65	304. 27
γ 65. 0	292. 20	301. 79	324. 75	336. 54	315. 89	288. 77	265. 71	280. 56	314. 83	334. 84	320. 79	289. 75
γ 66. 0	277. 55	286. 99	310. 00	322. 14	301. 48	274. 38	251. 28	266. 36	300. 54	320. 42	306. 30	275. 23
γ 67. 0	262. 69	272. 22	295. 48	307. 51	287. 18	260. 00	237. 20	252. 12	286. 45	306. 21	291. 99	260. 78
γ 68. 0	247. 78	257. 51	280. 69	293. 12	272. 56	245. 78	223. 08	238. 08	272. 17	292. 00	277. 66	246. 39
γ 69. 0	233. 09	242. 78	266. 13	278. 65	258. 22	231. 31	209. 04	224. 11	258. 02	277. 78	263. 30	232. 07
γ 70. 0	218. 60	228. 10	251. 53	264. 08	244. 09	217. 13	195. 00	210. 01	244. 00	263. 38	248. 88	217. 74
γ 71. 0	204. 35	213. 63	237. 38	249. 83	230. 07	203. 15	181. 19	196. 19	229. 78	249. 22	234. 56	203. 65
γ 72. 0	190. 07	199. 34	223. 28	235. 79	216. 04	189. 40	167. 58	182. 63	215. 75	235. 33	220. 32	189. 74
γ 73. 0	175. 94	185. 18	208. 96	221. 76	202. 07	175. 72	154. 42	169. 16	201. 92	221. 60	206. 51	175. 99
γ 74. 0	162. 05	171. 14	194. 71	207. 85	188. 12	162. 29	141. 42	156. 01	188. 30	207. 95	192. 60	162. 45
γ 75. 0	148. 23	157. 19	180. 69	193. 68	174. 46	148. 91	128. 62	142. 84	174. 67	194. 31	178. 91	148. 91
γ 76. 0	134. 93	143. 54	166. 85	180. 09	161. 01	135. 90	116. 06	129. 98	161. 26	180. 74	165. 30	135. 42
γ 77. 0	121. 84	130. 11	153. 39	166. 63	147. 88	123. 19	103. 69	117. 31	148. 00	167. 62	151. 83	122. 36
γ 78. 0	109. 14	117. 04	140. 08	153. 47	134. 78	110. 72	92. 01	104. 96	134. 87	154. 53	138. 48	109. 57
γ 79. 0	96. 69	104. 06	126. 88	140. 57	121. 78	98. 57	80. 94	93. 09	122. 07	141. 94	125. 55	96. 96
γ 80. 0	85. 01	91. 75	113. 83	127. 99	108. 96	87. 04	70. 51	81. 60	109. 53	129. 35	112. 88	84. 79
γ 81. 0	73. 93	79. 65	100. 96	115. 52	96. 44	75. 93	60. 83	70. 72	97. 39	116. 98	100. 43	73. 04
γ 82. 0	63. 74	68. 43	88. 53	103. 29	84. 52	65. 59	51. 94	60. 34	85. 42	104. 78	88. 13	61. 89
γ 83. 0	54. 62	58. 08	76. 45	91. 50	72. 92	56. 22	43. 87	51. 03	73. 49	93. 09	76. 01	51. 73
γ 84. 0	46. 38	48. 92	64. 77	80. 18	61. 97	48. 13	36. 66	42. 72	62. 33	81. 68	64. 44	42. 78
γ 85. 0	38. 41	40. 62	53. 60	69. 20	51. 44	40. 61	29. 74	35. 25	51. 75	70. 59	53. 33	34. 67
γ 86. 0	31. 94	33. 00	43. 38	58. 64	42. 29	33. 47	24. 14	28. 35	41. 85	59. 97	42. 68	27. 26
γ 87. 0	30. 56	29. 69	35. 06	48. 44	34. 69	29. 41	22. 62	23. 97	33. 20	49. 62	33. 44	23. 59
γ 88. 0	29. 68	28. 99	30. 77	39. 01	30. 53	28. 62	22. 14	23. 10	26. 26	39. 69	25. 82	22. 86
γ 89. 0	29. 05	28. 42	29. 71	30. 71	29. 59	27. 96	21. 97	22. 57	22. 86	30. 67	22. 51	22. 23
γ 90. 0	28. 59	28. 04	29. 27	27. 78	29. 12	27. 68	22. 05	22. 40	22. 33	23. 17	21. 93	22. 10
γ 91. 0	28. 29	27. 89	29. 01	28. 09	28. 86	27. 55	22. 02	22. 35	22. 25	21. 98	21. 96	21. 96
γ 92. 0	27. 95	27. 75	29. 01	30. 58	28. 78	27. 48	22. 15	22. 56	22. 52	22. 33	22. 06	22. 02
γ 93. 0	27. 73	27. 83	30. 15	32. 85	29. 68	27. 54	22. 30	22. 68	22. 96	25. 17	22. 47	22. 21

**IES Indoor Report**  
**Photometric Filename:METRO-4FT-40W.IES**

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**Candela Tabulation - (Cont.)**

V/H	C0. 0	C30. 0	C60. 0	C90. 0	C120. 0	C150. 0	C180. 0	C210. 0	C240. 0	C270. 0	C300. 0	C330. 0
γ 94. 0	27. 70	28. 09	32. 32	33. 97	31. 81	27. 82	22. 82	23. 00	24. 38	26. 73	23. 14	22. 46
γ 95. 0	28. 08	29. 50	34. 44	34. 78	33. 60	28. 85	23. 38	24. 18	26. 88	28. 13	25. 94	23. 38
γ 96. 0	30. 14	32. 06	36. 41	35. 89	35. 61	31. 49	26. 01	26. 92	29. 20	29. 58	28. 46	25. 39
γ 97. 0	32. 56	34. 44	38. 53	36. 51	37. 62	33. 96	28. 74	29. 45	31. 29	31. 00	30. 54	27. 98
γ 98. 0	34. 74	36. 13	41. 13	37. 39	39. 69	35. 39	31. 22	31. 48	33. 62	32. 55	32. 49	29. 41
γ 99. 0	36. 74	38. 11	44. 12	38. 29	42. 42	37. 24	33. 35	33. 35	36. 26	33. 01	35. 34	30. 66
γ 100. 0	38. 82	40. 12	47. 60	39. 06	45. 42	38. 92	35. 75	35. 40	39. 40	32. 37	38. 68	34. 45
γ 101. 0	40. 85	41. 65	51. 35	39. 87	48. 89	40. 57	37. 86	37. 13	42. 94	31. 61	42. 56	35. 97
γ 102. 0	42. 87	42. 95	54. 80	39. 43	51. 99	41. 93	39. 95	38. 56	47. 03	30. 51	46. 66	36. 87
γ 103. 0	44. 84	45. 42	58. 50	38. 09	55. 85	44. 05	42. 10	40. 64	50. 33	29. 49	50. 09	39. 56
γ 104. 0	46. 81	47. 15	63. 53	36. 71	60. 82	45. 87	44. 31	42. 79	54. 53	28. 33	53. 94	41. 50
γ 105. 0	47. 70	48. 52	68. 85	34. 99	65. 70	47. 26	46. 44	44. 41	59. 70	26. 93	58. 67	43. 19
γ 106. 0	50. 54	50. 12	72. 77	33. 35	69. 97	48. 49	48. 49	46. 02	64. 49	25. 47	63. 47	44. 32
γ 107. 0	52. 46	52. 90	75. 24	32. 25	74. 30	50. 73	50. 62	48. 49	68. 72	23. 89	67. 24	47. 18
γ 108. 0	54. 38	55. 97	76. 91	30. 83	78. 54	53. 41	52. 83	51. 50	72. 69	23. 43	70. 27	50. 69
γ 109. 0	56. 42	58. 93	78. 18	29. 31	82. 09	56. 20	54. 97	54. 40	76. 35	23. 56	72. 72	53. 86
γ 110. 0	58. 97	62. 03	82. 04	28. 52	85. 19	58. 97	57. 64	57. 44	78. 32	23. 80	73. 73	57. 23
γ 111. 0	61. 33	65. 44	87. 04	28. 85	90. 47	62. 12	60. 18	60. 97	80. 08	23. 94	76. 10	61. 03
γ 112. 0	63. 75	69. 46	92. 62	29. 20	96. 70	65. 66	62. 84	64. 82	85. 88	24. 23	80. 36	65. 12
γ 113. 0	66. 53	73. 68	97. 76	29. 35	102. 53	69. 73	65. 75	69. 20	91. 50	24. 45	86. 17	69. 89
γ 114. 0	69. 77	78. 54	102. 65	29. 32	107. 41	74. 12	69. 18	73. 96	97. 10	24. 65	92. 10	74. 94
γ 115. 0	73. 30	83. 84	107. 64	29. 29	113. 24	79. 30	72. 81	79. 31	103. 64	24. 86	99. 03	80. 66
γ 116. 0	77. 23	89. 67	113. 59	29. 26	121. 02	84. 75	76. 93	85. 09	110. 55	25. 14	105. 98	87. 13
γ 117. 0	81. 56	95. 89	120. 55	29. 26	128. 54	91. 34	81. 53	91. 61	117. 78	25. 36	112. 85	93. 35
γ 118. 0	86. 67	102. 40	126. 58	29. 38	135. 48	98. 45	86. 80	98. 57	124. 88	25. 53	119. 37	94. 84
γ 119. 0	92. 28	109. 29	132. 82	29. 67	143. 29	105. 35	92. 89	106. 55	133. 07	25. 79	126. 61	104. 40
γ 120. 0	98. 56	116. 40	138. 72	30. 14	150. 18	112. 44	99. 56	113. 30	141. 15	26. 14	134. 58	112. 11
γ 121. 0	105. 28	123. 10	145. 66	30. 38	157. 60	118. 87	106. 94	121. 04	148. 64	26. 40	142. 65	119. 34
γ 122. 0	112. 88	129. 34	150. 85	30. 64	166. 84	126. 04	114. 65	126. 65	157. 26	26. 62	150. 63	125. 06
γ 123. 0	120. 61	137. 28	155. 43	30. 80	175. 69	135. 99	122. 61	135. 33	166. 06	26. 93	157. 23	134. 30
γ 124. 0	127. 03	146. 20	159. 91	31. 00	185. 24	146. 09	128. 90	145. 27	174. 08	27. 27	164. 37	143. 24
γ 125. 0	134. 55	155. 52	163. 53	31. 26	194. 31	156. 89	135. 85	155. 87	183. 09	27. 49	171. 66	152. 56
γ 126. 0	139. 44	165. 61	167. 68	31. 45	202. 48	168. 14	142. 22	166. 57	192. 13	27. 91	175. 14	162. 32
γ 127. 0	147. 37	176. 41	170. 86	31. 66	211. 40	179. 52	153. 09	177. 30	200. 59	28. 24	179. 55	172. 70
γ 128. 0	158. 19	188. 29	176. 06	31. 84	219. 79	190. 92	165. 02	189. 01	210. 27	28. 42	183. 59	183. 45
γ 129. 0	169. 28	199. 56	181. 57	32. 02	229. 46	203. 09	177. 64	201. 74	218. 59	28. 79	188. 19	194. 62
γ 130. 0	181. 34	210. 20	188. 90	32. 17	237. 83	215. 43	190. 55	214. 25	228. 09	29. 06	191. 33	207. 56
γ 131. 0	193. 85	220. 68	191. 24	32. 31	246. 27	227. 98	203. 69	226. 60	236. 01	29. 47	194. 64	218. 13
γ 132. 0	206. 60	228. 95	195. 80	32. 17	255. 21	241. 13	217. 12	238. 55	244. 39	29. 68	196. 96	229. 25
γ 133. 0	219. 70	237. 54	199. 76	32. 26	262. 24	254. 05	231. 06	250. 35	252. 79	30. 04	202. 03	240. 27
γ 134. 0	232. 92	242. 92	201. 99	32. 43	272. 08	265. 90	245. 38	263. 26	259. 85	30. 36	204. 67	251. 06
γ 135. 0	245. 56	253. 77	205. 23	32. 53	278. 63	277. 53	259. 57	276. 49	268. 27	30. 75	207. 24	261. 33
γ 136. 0	258. 39	256. 73	203. 91	32. 52	284. 00	288. 70	273. 90	288. 29	273. 77	30. 95	207. 49	266. 51
γ 137. 0	271. 47	261. 94	201. 04	32. 63	291. 83	299. 38	287. 84	298. 23	279. 48	31. 21	205. 13	269. 88
γ 138. 0	284. 35	265. 11	198. 11	32. 70	295. 21	309. 57	300. 59	307. 49	285. 99	31. 53	204. 67	273. 65
γ 139. 0	296. 80	268. 29	195. 29	32. 84	298. 52	318. 33	312. 48	317. 08	290. 42	31. 84	203. 04	280. 98
γ 140. 0	308. 74	273. 75	189. 16	32. 95	302. 93	325. 74	324. 31	327. 15	294. 95	32. 08	202. 32	287. 48

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**IES Indoor Report**  
**Photometric Filename:METRO-4FT-40W.IES**

## Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
γ 141.0	319.29	273.89	185.88	33.19	308.17	334.41	336.28	336.77	298.01	32.30	200.71	289.85
γ 142.0	328.44	271.85	185.34	33.15	311.73	343.51	347.18	345.06	300.78	32.52	195.84	291.26
γ 143.0	336.78	268.45	188.27	33.28	314.25	351.18	356.36	351.60	305.98	32.76	193.25	292.87
γ 144.0	347.30	267.18	184.57	33.41	317.42	357.51	366.86	356.01	310.92	33.08	192.52	292.92
γ 145.0	360.10	268.65	187.59	33.53	319.07	362.66	380.26	360.18	312.83	33.28	189.80	290.81
γ 146.0	365.76	270.91	189.67	33.80	319.48	366.60	383.92	367.00	315.21	33.52	193.99	288.20
γ 147.0	368.41	272.01	191.41	33.92	322.09	371.63	386.14	375.88	318.93	33.62	196.85	285.73
γ 148.0	372.33	271.55	195.13	34.08	327.03	376.72	391.97	382.68	323.69	33.89	200.57	282.45
γ 149.0	375.97	266.87	197.72	34.31	330.59	381.30	397.33	385.96	328.99	34.10	203.85	277.93
γ 150.0	380.40	263.05	201.30	34.33	334.62	384.15	401.39	386.67	332.37	34.36	206.90	274.19
γ 151.0	385.01	257.54	202.03	34.48	339.35	385.66	404.69	390.33	334.36	34.55	206.02	270.38
γ 152.0	387.44	251.75	205.16	34.65	342.65	390.44	406.84	396.02	338.32	34.70	208.79	264.81
γ 153.0	388.41	254.43	211.07	34.78	347.81	395.97	409.72	398.71	344.15	34.99	213.15	261.66
γ 154.0	389.63	258.44	226.27	35.00	353.19	396.94	411.04	396.95	351.26	35.19	224.96	266.32
γ 155.0	390.08	256.36	245.00	35.13	358.59	395.41	410.97	396.42	361.49	35.40	237.85	266.48
γ 156.0	384.31	255.08	263.04	35.31	362.49	396.59	410.65	396.18	371.89	35.48	254.26	262.22
γ 157.0	348.32	250.57	276.28	35.38	372.51	396.00	410.96	392.85	382.55	35.72	266.52	257.61
γ 158.0	272.25	242.90	283.62	35.56	394.96	392.04	410.65	390.27	394.38	35.78	265.24	252.34
γ 159.0	343.34	236.24	295.82	35.74	404.55	390.39	410.11	389.08	402.82	36.18	260.77	245.00
γ 160.0	377.67	230.66	304.62	35.89	407.70	392.58	403.69	388.72	408.74	36.40	257.81	234.39
γ 161.0	379.09	225.93	309.79	35.92	410.72	396.24	398.40	391.41	416.74	36.47	255.57	227.90
γ 162.0	379.66	224.93	320.45	36.07	409.45	400.13	398.54	392.93	417.64	36.70	263.07	227.99
γ 163.0	378.91	226.79	322.35	36.18	416.25	403.80	401.72	394.00	414.61	36.73	265.79	229.46
γ 164.0	392.88	232.00	318.98	36.26	420.60	407.31	405.04	397.42	410.29	36.85	268.74	237.84
γ 165.0	400.63	244.93	314.62	36.27	409.59	412.35	407.94	411.64	401.78	36.96	268.56	255.94
γ 166.0	399.71	262.27	303.33	36.41	407.35	432.08	410.82	442.33	402.41	36.97	265.51	254.50
γ 167.0	400.17	269.23	294.70	36.56	402.65	448.67	426.30	456.04	397.86	36.97	271.19	260.71
γ 168.0	422.66	283.18	224.74	36.54	407.03	450.40	453.51	454.65	398.96	36.93	232.28	268.94
γ 169.0	417.56	293.54	95.92	36.73	408.43	444.62	449.49	454.67	396.72	36.92	105.85	268.07
γ 170.0	334.64	308.92	51.38	36.90	399.60	446.81	437.46	450.62	389.20	37.02	51.71	266.57
γ 171.0	245.34	316.15	45.63	36.88	392.43	434.82	414.25	445.68	379.22	37.01	44.98	256.08
γ 172.0	235.61	315.97	41.70	37.03	386.09	432.75	249.29	441.84	374.06	37.06	41.35	254.90
γ 173.0	229.15	306.35	38.40	37.08	377.84	432.90	235.55	431.61	361.21	36.99	38.04	239.87
γ 174.0	219.71	145.64	37.79	37.10	318.19	423.23	232.17	412.92	263.39	37.11	37.38	71.68
γ 175.0	172.23	45.45	37.76	37.12	154.20	405.44	220.77	395.07	101.20	37.03	37.33	45.48
γ 176.0	47.11	38.40	37.67	37.01	64.99	367.52	182.11	287.96	54.20	36.96	37.39	39.50
γ 177.0	39.24	35.11	37.67	37.00	52.31	96.94	47.10	64.51	47.29	36.99	37.44	37.53
γ 178.0	36.50	35.40	37.63	37.00	46.81	48.08	39.19	47.58	42.63	36.89	37.36	37.31
γ 179.0	36.10	35.65	37.57	37.08	41.99	39.54	35.85	38.92	38.26	36.80	37.47	37.13
γ 180.0	36.67	36.67	36.67	36.67	36.67	36.67	36.67	36.67	36.67	36.67	36.67	36.67