

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P934579

Luminaire Tested: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934579
REPORT IS A COMBINATION OF REPORTS P933701 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-12-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

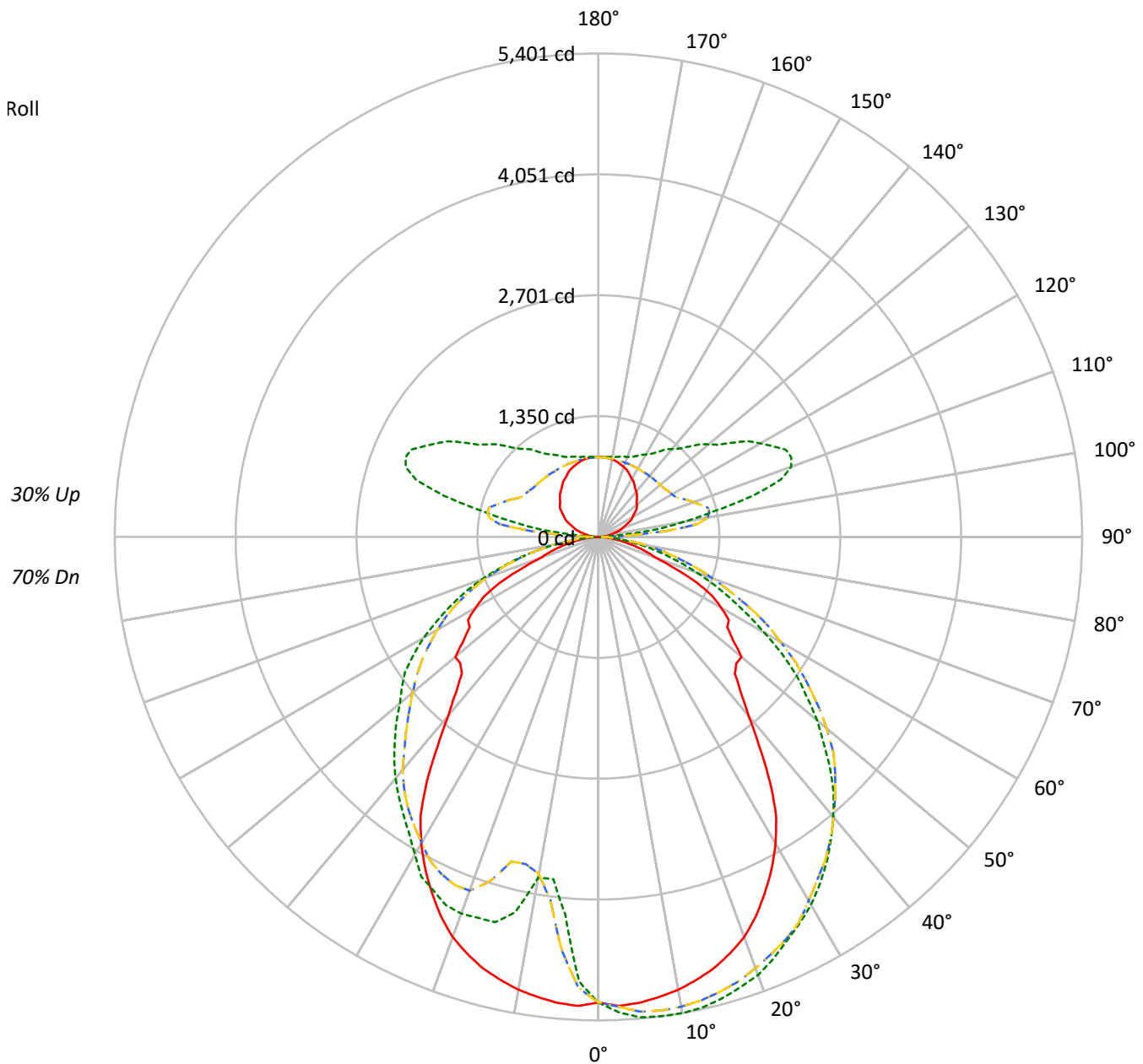
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19272.4 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 168
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-12-3500K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16083	16083	16083	16083
5°	16209	16235	16209	12766
10°	16107	15992	16107	11433
15°	15937	15645	15937	13064
20°	15610	15235	15610	13092
25°	14934	14636	14934	12814
30°	14058	14139	14058	12205
35°	12539	13511	12539	11536
40°	10454	12771	10454	11030
45°	9347	11904	9347	10448
50°	9938	10871	9938	9865
55°	9359	9758	9359	9527
60°	9659	8287	9659	8726
65°	8772	6851	8772	7658
70°	6089	5460	6089	6419
75°	5359	4036	5359	4833
80°	4351	2668	4351	2905
85°	2550	1413	2550	1201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 14316 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.4	2.4
10°-20°	1332.6	6.9
20°-30°	2060.0	10.7
30°-40°	2459.2	12.8
40°-50°	2473.6	12.8
50°-60°	2152.4	11.2
60°-70°	1526.1	7.9
70°-80°	807.4	4.2
80°-90°	204.5	1.1
90°-100°	435.1	2.3
100°-110°	1144.1	5.9
110°-120°	1186.3	6.2
120°-130°	951.5	4.9
130°-140°	746.6	3.9
140°-150°	573.1	3.0
150°-160°	412.7	2.1
160°-170°	252.5	1.3
170°-180°	85.3	0.4
0°-30°	3862.0	20.0
0°-40°	6321.2	32.8
0°-60°	10947.2	56.8
0°-90°	13485.1	70.0
90°-120°	2765.5	14.3
90°-150°	5036.8	26.1
90°-180°	5787.0	30.0
0°-180°	19272.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5200	5200	5200	5200	5200	
5°	5224	5387	5224	4236	5224	496
15°	4988	5337	4988	4457	4988	1403
25°	4393	4978	4393	4358	4393	2017
35°	3340	4442	3340	3793	3340	2066
45°	2155	3660	2155	3212	2155	1726
55°	1756	2701	1756	2637	1756	1614
65°	1220	1628	1220	1820	1220	1166
75°	462	772	462	925	462	486
85°	79	197	79	167	79	106
90°	6	23	6	23	6	8
95°	58	263	58	263	58	64
105°	206	1792	206	1792	206	219
115°	366	2307	366	2307	366	362
125°	509	1837	509	1837	509	452
135°	607	1425	607	1425	607	470
145°	704	1156	704	1156	704	441
155°	796	996	796	996	796	366
165°	859	928	859	928	859	242
175°	893	899	893	899	893	85
180°	893	893	893	893	893	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7
2.5°	5243.9	5243.9	5273.4	5283.3	5283.3	5268.5	5253.7	5268.5	5312.7	5327.6	5322.6
5°	5224.2	5263.6	5317.7	5327.6	5337.3	5332.4	5322.6	5332.4	5381.6	5391.5	5396.4
7.5°	5184.8	5258.7	5327.6	5342.3	5357.0	5342.3	5337.3	5347.2	5396.4	5406.2	5406.2
10°	5135.7	5239.0	5317.7	5327.6	5342.3	5327.6	5327.6	5347.2	5396.4	5406.2	5411.2
12.5°	5066.8	5209.4	5283.3	5293.1	5312.7	5307.8	5302.9	5322.6	5371.7	5381.6	5381.6
15°	4988.1	5155.4	5224.2	5234.1	5268.5	5258.7	5258.7	5278.3	5332.4	5347.2	5342.3
17.5°	4879.9	5086.5	5165.2	5180.0	5204.5	5199.7	5204.5	5224.2	5273.4	5283.3	5288.1
20°	4756.9	4993.0	5086.5	5101.2	5125.8	5125.8	5125.8	5150.4	5199.7	5219.3	5219.3
22.5°	4589.7	4894.6	4993.0	5002.9	5032.4	5032.4	5042.2	5076.6	5120.9	5125.8	5125.8
25°	4392.9	4786.4	4870.0	4899.6	4929.1	4943.8	4958.6	4978.2	4993.0	4988.1	4993.0
27.5°	4186.3	4648.7	4756.9	4776.6	4815.9	4830.7	4850.3	4855.3	4860.2	4874.9	4865.2
30°	3955.1	4456.8	4619.1	4638.8	4702.8	4712.6	4693.0	4702.8	4727.4	4737.2	4747.0
32.5°	3694.3	4171.5	4476.5	4520.8	4579.8	4550.3	4545.4	4560.1	4599.5	4599.5	4609.3
35°	3340.1	3950.1	4343.6	4383.0	4427.3	4392.9	4412.5	4417.5	4442.1	4456.8	4451.9
37.5°	2951.6	3758.3	4205.9	4235.5	4269.9	4225.6	4255.2	4269.9	4289.6	4279.7	4279.7
40°	2607.2	3458.2	4043.6	4063.3	4092.8	4058.4	4087.9	4097.7	4107.6	4097.7	4092.8
42.5°	2351.4	3128.6	3871.4	3896.1	3876.4	3900.9	3910.8	3930.5	3915.7	3896.1	3896.1
45°	2154.6	3040.0	3684.5	3714.0	3684.5	3723.9	3738.6	3738.6	3694.3	3684.5	3679.6
47.5°	2090.7	2863.0	3497.6	3497.6	3482.8	3532.0	3556.6	3522.1	3477.9	3463.1	3463.1
50°	2085.8	2666.2	3241.8	3222.1	3290.9	3350.0	3325.4	3290.9	3256.5	3202.4	3202.4
52.5°	1893.9	2425.2	2912.1	2986.0	3094.2	3128.6	3089.3	3054.9	2995.8	2971.2	2951.6
55°	1756.1	2174.3	2612.1	2759.7	2872.8	2917.1	2843.3	2808.8	2720.4	2705.5	2695.8
57.5°	1726.7	1810.3	2336.6	2523.6	2661.3	2656.4	2612.1	2548.2	2474.3	2459.6	2454.7
60°	1584.0	1308.5	2041.5	2262.8	2405.5	2390.7	2351.4	2292.4	2223.5	2213.7	2203.8
62.5°	1436.4	949.4	1707.0	1957.9	2159.5	2154.6	2120.2	2031.6	1982.5	1957.9	1938.2
65°	1220.0	796.9	1215.0	1628.3	1918.5	1928.3	1854.6	1790.6	1736.4	1707.0	1702.0
67.5°	929.8	649.3	821.5	1357.7	1687.3	1677.4	1584.0	1554.5	1485.6	1470.8	1441.3
70°	688.7	432.9	570.6	1101.9	1461.0	1436.4	1362.6	1328.2	1264.3	1229.8	1210.1
72.5°	570.6	349.2	418.1	855.9	1229.8	1200.3	1136.3	1097.0	1042.8	1013.4	993.7
75°	462.4	368.9	319.8	634.6	998.6	978.9	919.9	880.5	836.2	796.9	801.8
77.5°	339.4	344.4	255.8	467.3	792.0	762.5	728.0	678.9	659.2	619.9	619.9
80°	255.8	270.5	191.9	319.8	570.6	570.6	541.1	506.7	472.3	452.5	452.5
82.5°	172.2	172.2	142.6	201.6	388.7	373.8	354.2	344.4	324.7	314.8	314.8
85°	78.7	98.4	88.6	123.0	211.5	221.3	221.3	211.5	206.6	196.8	201.6
87.5°	24.6	44.3	54.1	68.9	108.2	113.2	118.0	118.0	118.0	123.0	123.0
90°	6.0	10.8	15.6	16.8	26.4	39.1	45.5	40.5	30.3	22.8	22.8
92.5°	23.9	64.6	105.4	115.6	162.5	225.1	256.4	224.7	161.3	113.9	109.3
95°	57.6	132.1	206.7	225.3	400.0	633.0	749.5	668.8	507.5	386.4	372.7
97.5°	99.4	165.2	231.0	247.5	538.9	927.3	1121.6	1070.6	968.6	892.2	866.1
100°	131.8	191.5	251.1	266.0	589.3	1020.5	1236.1	1239.7	1247.2	1252.8	1221.7
102.5°	159.4	215.0	270.6	284.6	612.5	1049.8	1268.4	1333.3	1463.3	1560.8	1534.1
105°	206.1	253.2	300.3	312.1	629.7	1053.1	1264.8	1410.5	1701.8	1920.3	1905.9
107.5°	254.1	298.0	342.0	352.9	633.0	1006.3	1192.9	1396.1	1802.5	2107.3	2110.8
110°	286.4	326.1	365.8	375.7	628.1	964.7	1133.1	1360.2	1814.5	2155.2	2170.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	318.1	355.9	393.7	403.2	628.3	928.4	1078.5	1311.0	1775.9	2124.6	2147.5
115°	366.1	401.0	435.9	444.6	634.1	886.8	1013.2	1237.1	1685.0	2020.9	2052.7
117.5°	413.4	445.1	476.7	484.7	645.8	860.8	968.2	1170.4	1574.5	1877.7	1912.9
120°	441.0	470.8	500.6	508.0	655.4	852.0	950.3	1135.0	1504.3	1781.3	1815.5
122.5°	467.9	498.1	528.1	535.7	669.3	847.4	936.4	1102.7	1435.4	1684.8	1718.5
125°	509.3	536.7	564.2	571.0	687.9	843.6	921.5	1062.8	1345.3	1557.2	1588.3
127.5°	542.8	570.5	598.3	605.1	706.4	841.4	908.9	1030.2	1272.8	1454.8	1481.0
130°	560.9	590.7	620.5	627.9	720.0	842.7	904.2	1012.1	1228.1	1390.0	1414.3
132.5°	579.4	609.2	639.1	646.5	731.0	843.6	899.9	996.6	1189.9	1334.9	1356.6
135°	607.0	634.1	661.2	668.0	742.9	842.8	892.7	973.7	1135.7	1257.1	1275.8
137.5°	635.1	662.0	689.0	695.6	761.0	848.1	891.6	960.0	1096.9	1199.5	1214.8
140°	658.4	683.2	708.0	714.2	771.9	848.8	887.3	946.4	1064.7	1153.4	1167.7
142.5°	676.5	699.3	722.3	728.0	781.1	851.9	887.3	939.3	1043.1	1121.0	1133.3
145°	704.0	723.9	743.9	748.9	793.1	851.9	881.4	923.8	1008.8	1072.5	1081.8
147.5°	731.6	751.0	770.5	775.3	810.7	857.9	881.4	914.8	981.7	1031.8	1039.5
150°	749.5	767.1	784.7	789.1	819.9	860.9	881.4	909.6	966.0	1008.3	1014.6
152.5°	768.1	781.4	794.8	798.1	825.9	862.9	881.4	905.5	953.7	989.8	994.6
155°	795.6	805.5	815.4	817.8	839.1	867.3	881.4	900.6	938.9	967.6	970.7
157.5°	816.1	825.7	835.2	837.6	852.2	871.7	881.4	896.3	926.1	948.5	950.7
160°	829.9	837.3	844.8	846.6	858.2	873.7	881.4	894.2	919.7	938.9	940.1
162.5°	843.6	849.2	854.9	856.2	864.6	875.8	881.4	892.2	913.7	929.9	931.0
165°	858.6	863.7	868.7	870.0	873.7	878.9	881.4	889.2	904.6	916.1	917.4
167.5°	872.4	874.7	877.1	877.7	880.9	885.2	887.3	892.4	902.5	910.1	910.7
170°	881.4	883.7	886.2	886.7	886.9	887.2	887.3	892.4	902.5	910.1	910.1
172.5°	886.2	886.6	887.2	887.3	887.3	887.3	887.3	891.3	899.3	905.3	904.9
175°	892.7	892.7	892.7	892.7	890.9	888.5	887.3	889.8	895.0	898.7	898.7
177.5°	892.7	892.7	892.7	892.7	891.4	889.5	888.6	890.6	894.6	897.6	897.0
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7
2.5°	5332.4	5317.7	5332.4	5322.6	5327.6	5312.7	5268.5	5253.7	5268.5	5283.3	5283.3
5°	5396.4	5386.6	5396.4	5396.4	5391.5	5381.6	5332.4	5322.6	5332.4	5337.3	5327.6
7.5°	5416.0	5401.3	5416.0	5406.2	5406.2	5396.4	5347.2	5337.3	5342.3	5357.0	5342.3
10°	5416.0	5401.3	5416.0	5411.2	5406.2	5396.4	5347.2	5327.6	5327.6	5342.3	5327.6
12.5°	5391.5	5381.6	5391.5	5381.6	5381.6	5371.7	5322.6	5302.9	5307.8	5312.7	5293.1
15°	5352.1	5337.3	5352.1	5342.3	5347.2	5332.4	5278.3	5258.7	5258.7	5268.5	5234.1
17.5°	5293.1	5273.4	5293.1	5288.1	5283.3	5273.4	5224.2	5204.5	5199.7	5204.5	5180.0
20°	5224.2	5209.4	5224.2	5219.3	5219.3	5199.7	5150.4	5125.8	5125.8	5125.8	5101.2
22.5°	5116.0	5101.2	5116.0	5125.8	5125.8	5120.9	5076.6	5042.2	5032.4	5032.4	5002.9
25°	4993.0	4978.2	4993.0	4993.0	4988.1	4993.0	4978.2	4958.6	4943.8	4929.1	4899.6
27.5°	4874.9	4865.2	4874.9	4865.2	4874.9	4860.2	4855.3	4850.3	4830.7	4815.9	4776.6
30°	4756.9	4747.0	4756.9	4747.0	4737.2	4727.4	4702.8	4693.0	4712.6	4702.8	4638.8
32.5°	4609.3	4599.5	4609.3	4609.3	4599.5	4599.5	4560.1	4545.4	4550.3	4579.8	4520.8
35°	4456.8	4442.1	4456.8	4451.9	4456.8	4442.1	4417.5	4412.5	4392.9	4427.3	4383.0
37.5°	4279.7	4265.0	4279.7	4279.7	4279.7	4289.6	4269.9	4255.2	4225.6	4269.9	4235.5
40°	4097.7	4078.0	4097.7	4092.8	4097.7	4107.6	4097.7	4087.9	4058.4	4092.8	4063.3
42.5°	3891.1	3886.2	3891.1	3896.1	3896.1	3915.7	3930.5	3910.8	3900.9	3876.4	3896.1
45°	3669.7	3659.9	3669.7	3679.6	3684.5	3694.3	3738.6	3738.6	3723.9	3684.5	3714.0
47.5°	3433.7	3409.0	3433.7	3463.1	3463.1	3477.9	3522.1	3556.6	3532.0	3482.8	3497.6
50°	3182.8	3187.6	3182.8	3202.4	3202.4	3256.5	3290.9	3325.4	3350.0	3290.9	3222.1
52.5°	2936.7	2931.9	2936.7	2951.6	2971.2	2995.8	3054.9	3089.3	3128.6	3094.2	2986.0
55°	2690.8	2700.7	2690.8	2695.8	2705.5	2720.4	2808.8	2843.3	2917.1	2872.8	2759.7
57.5°	2444.9	2430.1	2444.9	2454.7	2459.6	2474.3	2548.2	2612.1	2656.4	2661.3	2523.6
60°	2159.5	2139.8	2159.5	2203.8	2213.7	2223.5	2292.4	2351.4	2390.7	2405.5	2262.8
62.5°	1908.6	1874.2	1908.6	1938.2	1957.9	1982.5	2031.6	2120.2	2154.6	2159.5	1957.9
65°	1643.0	1628.3	1643.0	1702.0	1707.0	1736.4	1790.6	1854.6	1928.3	1918.5	1628.3
67.5°	1401.9	1401.9	1401.9	1441.3	1470.8	1485.6	1554.5	1584.0	1677.4	1687.3	1357.7
70°	1180.6	1175.7	1180.6	1210.1	1229.8	1264.3	1328.2	1362.6	1436.4	1461.0	1101.9
72.5°	969.1	964.2	969.1	993.7	1013.4	1042.8	1097.0	1136.3	1200.3	1229.8	855.9
75°	782.2	772.3	782.2	801.8	796.9	836.2	880.5	919.9	978.9	998.6	634.6
77.5°	600.1	600.1	600.1	619.9	619.9	659.2	678.9	728.0	762.5	792.0	467.3
80°	447.7	442.7	447.7	452.5	452.5	472.3	506.7	541.1	570.6	570.6	319.8
82.5°	314.8	304.9	314.8	314.8	314.8	324.7	344.4	354.2	373.8	388.7	201.6
85°	196.8	196.8	196.8	201.6	196.8	206.6	211.5	221.3	221.3	211.5	123.0
87.5°	127.9	123.0	127.9	123.0	123.0	118.0	118.0	118.0	113.2	108.2	68.9
90°	22.8	22.8	22.8	22.8	22.8	30.3	40.5	45.5	39.1	26.4	16.8
92.5°	91.2	73.1	91.2	109.3	113.9	161.3	224.7	256.4	225.1	162.5	115.6
95°	317.8	263.0	317.8	372.7	386.4	507.5	668.8	749.5	633.0	400.0	225.3
97.5°	761.6	657.3	761.6	866.1	892.2	968.6	1070.6	1121.6	927.3	538.9	247.5
100°	1097.4	973.1	1097.4	1221.7	1252.8	1247.2	1239.7	1236.1	1020.5	589.3	266.0
102.5°	1427.6	1321.1	1427.6	1534.1	1560.8	1463.3	1333.3	1268.4	1049.8	612.5	284.6
105°	1848.8	1791.5	1848.8	1905.9	1920.3	1701.8	1410.5	1264.8	1053.1	629.7	312.1
107.5°	2124.5	2138.4	2124.5	2110.8	2107.3	1802.5	1396.1	1192.9	1006.3	633.0	352.9
110°	2229.7	2289.4	2229.7	2170.1	2155.2	1814.5	1360.2	1133.1	964.7	628.1	375.7



TEST NUMBER: P934579

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2239.2	2330.7	2239.2	2147.5	2124.6	1775.9	1311.0	1078.5	928.4	628.3	403.2
115°	2179.8	2306.8	2179.8	2052.7	2020.9	1685.0	1237.1	1013.2	886.8	634.1	444.6
117.5°	2053.8	2194.7	2053.8	1912.9	1877.7	1574.5	1170.4	968.2	860.8	645.8	484.7
120°	1952.4	2089.3	1952.4	1815.5	1781.3	1504.3	1135.0	950.3	852.0	655.4	508.0
122.5°	1853.6	1988.6	1853.6	1718.5	1684.8	1435.4	1102.7	936.4	847.4	669.3	535.7
125°	1712.6	1837.0	1712.6	1588.3	1557.2	1345.3	1062.8	921.5	843.6	687.9	571.0
127.5°	1585.9	1690.8	1585.9	1481.0	1454.8	1272.8	1030.2	908.9	841.4	706.4	605.1
130°	1511.3	1608.2	1511.3	1414.3	1390.0	1228.1	1012.1	904.2	842.7	720.0	627.9
132.5°	1443.4	1530.2	1443.4	1356.6	1334.9	1189.9	996.6	899.9	843.6	731.0	646.5
135°	1350.6	1425.4	1350.6	1275.8	1257.1	1135.7	973.7	892.7	842.8	742.9	668.0
137.5°	1276.1	1337.3	1276.1	1214.8	1199.5	1096.9	960.0	891.6	848.1	761.0	695.6
140°	1224.9	1282.2	1224.9	1167.7	1153.4	1064.7	946.4	887.3	848.8	771.9	714.2
142.5°	1182.7	1231.9	1182.7	1133.3	1121.0	1043.1	939.3	887.3	851.9	781.1	728.0
145°	1119.1	1156.4	1119.1	1081.8	1072.5	1008.8	923.8	881.4	851.9	793.1	748.9
147.5°	1070.4	1101.3	1070.4	1039.5	1031.8	981.7	914.8	881.4	857.9	810.7	775.3
150°	1039.6	1064.7	1039.6	1014.6	1008.3	966.0	909.6	881.4	860.9	819.9	789.1
152.5°	1013.5	1032.4	1013.5	994.6	989.8	953.7	905.5	881.4	862.9	825.9	798.1
155°	983.3	995.8	983.3	970.7	967.6	938.9	900.6	881.4	867.3	839.1	817.8
157.5°	959.4	968.2	959.4	950.7	948.5	926.1	896.3	881.4	871.7	852.2	837.6
160°	945.3	950.3	945.3	940.1	938.9	919.7	894.2	881.4	873.7	858.2	846.6
162.5°	935.9	940.7	935.9	931.0	929.9	913.7	892.2	881.4	875.8	864.6	856.2
165°	922.5	927.5	922.5	917.4	916.1	904.6	889.2	881.4	878.9	873.7	870.0
167.5°	912.8	914.9	912.8	910.7	910.1	902.5	892.4	887.3	885.2	880.9	877.7
170°	910.1	910.1	910.1	910.1	910.1	902.5	892.4	887.3	887.2	886.9	886.7
172.5°	903.0	901.2	903.0	904.9	905.3	899.3	891.3	887.3	887.3	887.3	887.3
175°	898.7	898.7	898.7	898.7	898.7	895.0	889.8	887.3	888.5	890.9	892.7
177.5°	894.9	892.7	894.9	897.0	897.6	894.6	890.6	888.6	889.5	891.4	892.7
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7



TEST NUMBER: P934579

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7
2.5°	5273.4	5243.9	5243.9	5194.7	5175.0	5160.3	5135.7	5061.9	5042.2	5022.5	5052.1
5°	5317.7	5263.6	5224.2	5135.7	5061.9	5032.4	4938.9	4761.8	4643.7	4555.2	4506.0
7.5°	5327.6	5258.7	5184.8	5047.1	4870.0	4791.3	4506.0	4181.3	4092.8	4014.1	3964.9
10°	5317.7	5239.0	5135.7	4929.1	4510.9	4373.2	4087.9	3876.4	3822.2	3807.5	3822.2
12.5°	5283.3	5209.4	5066.8	4722.4	4137.0	4043.6	3876.4	3753.3	3743.5	3768.2	3900.9
15°	5224.2	5155.4	4988.1	4446.9	3930.5	3861.6	3743.5	3699.3	3753.3	3925.5	4324.0
17.5°	5165.2	5086.5	4879.9	4176.4	3773.1	3723.9	3640.2	3728.8	4033.8	4265.0	4397.8
20°	5086.5	4993.0	4756.9	3979.7	3659.9	3615.6	3576.3	3974.7	4205.9	4289.6	4363.3
22.5°	4993.0	4894.6	4589.7	3841.9	3541.9	3507.4	3532.0	4112.4	4205.9	4265.0	4328.9
25°	4870.0	4786.4	4392.9	3733.7	3448.4	3409.0	3502.5	4097.7	4151.8	4166.6	4294.5
27.5°	4756.9	4648.7	4186.3	3635.3	3335.2	3320.5	3527.1	4033.8	4073.1	4087.9	4225.6
30°	4619.1	4456.8	3955.1	3532.0	3217.2	3212.2	3532.0	3955.1	3945.2	3984.5	4122.3
32.5°	4476.5	4171.5	3694.3	3404.1	3104.0	3099.2	3497.6	3836.9	3827.2	3881.2	3984.5
35°	4343.6	3950.1	3340.1	3256.5	2961.4	2966.3	3414.0	3699.3	3704.2	3753.3	3817.3
37.5°	4205.9	3758.3	2951.6	3094.2	2823.7	2823.7	3300.8	3571.3	3561.6	3576.3	3664.9
40°	4043.6	3458.2	2607.2	2882.7	2695.8	2680.9	3163.1	3433.7	3399.2	3394.3	3517.3
42.5°	3871.4	3128.6	2351.4	2602.2	2548.2	2528.5	2995.8	3266.4	3202.4	3217.2	3374.5
45°	3684.5	3040.0	2154.6	2198.9	2395.7	2380.9	2813.8	3074.5	3030.3	3069.6	3231.9
47.5°	3497.6	2863.0	2090.7	1825.0	2233.4	2228.4	2612.1	2887.6	2863.0	2902.3	3074.5
50°	3241.8	2666.2	2085.8	1564.4	2051.3	2070.9	2371.0	2705.5	2705.5	2740.0	2922.0
52.5°	2912.1	2425.2	1893.9	1416.8	1839.7	1898.9	2159.5	2548.2	2558.0	2592.5	2754.8
55°	2612.1	2174.3	1756.1	1303.6	1588.9	1716.8	1952.9	2385.8	2405.5	2439.9	2587.5
57.5°	2336.6	1810.3	1726.7	1170.7	1357.7	1480.7	1770.9	2228.4	2238.3	2267.8	2410.4
60°	2041.5	1308.5	1584.0	1028.1	1156.0	1249.5	1603.7	2041.5	2075.9	2095.6	2218.5
62.5°	1707.0	949.4	1436.4	929.8	1057.7	1077.3	1465.9	1864.4	1908.6	1923.4	1997.2
65°	1215.0	796.9	1220.0	846.1	954.4	959.2	1318.3	1682.4	1721.7	1746.3	1800.4
67.5°	821.5	649.3	929.8	767.4	875.6	880.5	1175.7	1470.8	1524.9	1544.7	1579.1
70°	570.6	432.9	688.7	683.7	787.1	796.9	1023.2	1279.0	1328.2	1342.9	1362.6
72.5°	418.1	349.2	570.6	614.9	693.6	703.5	865.8	1062.5	1111.7	1126.5	1136.3
75°	319.8	368.9	462.4	536.1	590.3	595.3	708.3	865.8	900.2	910.1	914.9
77.5°	255.8	344.4	339.4	432.9	482.1	472.3	555.9	669.0	698.6	698.6	698.6
80°	191.9	270.5	255.8	309.9	354.2	344.4	398.5	477.1	487.0	496.8	492.0
82.5°	142.6	172.2	172.2	196.8	236.1	226.3	265.6	309.9	309.9	309.9	319.8
85°	88.6	98.4	78.7	103.3	132.8	127.9	147.6	167.2	172.2	172.2	162.3
87.5°	54.1	44.3	24.6	39.3	59.0	59.0	68.9	73.7	68.9	68.9	68.9
90°	15.6	10.8	6.0	10.8	15.6	16.8	26.4	39.1	45.5	40.5	30.3
92.5°	105.4	64.6	23.9	64.6	105.4	115.6	162.5	225.1	256.4	224.7	161.3
95°	206.7	132.1	57.6	132.1	206.7	225.3	400.0	633.0	749.5	668.8	507.5
97.5°	231.0	165.2	99.4	165.2	231.0	247.5	538.9	927.3	1121.6	1070.6	968.6
100°	251.1	191.5	131.8	191.5	251.1	266.0	589.3	1020.5	1236.1	1239.7	1247.2
102.5°	270.6	215.0	159.4	215.0	270.6	284.6	612.5	1049.8	1268.4	1333.3	1463.3
105°	300.3	253.2	206.1	253.2	300.3	312.1	629.7	1053.1	1264.8	1410.5	1701.8
107.5°	342.0	298.0	254.1	298.0	342.0	352.9	633.0	1006.3	1192.9	1396.1	1802.5
110°	365.8	326.1	286.4	326.1	365.8	375.7	628.1	964.7	1133.1	1360.2	1814.5



TEST NUMBER: P934579

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	393.7	355.9	318.1	355.9	393.7	403.2	628.3	928.4	1078.5	1311.0	1775.9
115°	435.9	401.0	366.1	401.0	435.9	444.6	634.1	886.8	1013.2	1237.1	1685.0
117.5°	476.7	445.1	413.4	445.1	476.7	484.7	645.8	860.8	968.2	1170.4	1574.5
120°	500.6	470.8	441.0	470.8	500.6	508.0	655.4	852.0	950.3	1135.0	1504.3
122.5°	528.1	498.1	467.9	498.1	528.1	535.7	669.3	847.4	936.4	1102.7	1435.4
125°	564.2	536.7	509.3	536.7	564.2	571.0	687.9	843.6	921.5	1062.8	1345.3
127.5°	598.3	570.5	542.8	570.5	598.3	605.1	706.4	841.4	908.9	1030.2	1272.8
130°	620.5	590.7	560.9	590.7	620.5	627.9	720.0	842.7	904.2	1012.1	1228.1
132.5°	639.1	609.2	579.4	609.2	639.1	646.5	731.0	843.6	899.9	996.6	1189.9
135°	661.2	634.1	607.0	634.1	661.2	668.0	742.9	842.8	892.7	973.7	1135.7
137.5°	689.0	662.0	635.1	662.0	689.0	695.6	761.0	848.1	891.6	960.0	1096.9
140°	708.0	683.2	658.4	683.2	708.0	714.2	771.9	848.8	887.3	946.4	1064.7
142.5°	722.3	699.3	676.5	699.3	722.3	728.0	781.1	851.9	887.3	939.3	1043.1
145°	743.9	723.9	704.0	723.9	743.9	748.9	793.1	851.9	881.4	923.8	1008.8
147.5°	770.5	751.0	731.6	751.0	770.5	775.3	810.7	857.9	881.4	914.8	981.7
150°	784.7	767.1	749.5	767.1	784.7	789.1	819.9	860.9	881.4	909.6	966.0
152.5°	794.8	781.4	768.1	781.4	794.8	798.1	825.9	862.9	881.4	905.5	953.7
155°	815.4	805.5	795.6	805.5	815.4	817.8	839.1	867.3	881.4	900.6	938.9
157.5°	835.2	825.7	816.1	825.7	835.2	837.6	852.2	871.7	881.4	896.3	926.1
160°	844.8	837.3	829.9	837.3	844.8	846.6	858.2	873.7	881.4	894.2	919.7
162.5°	854.9	849.2	843.6	849.2	854.9	856.2	864.6	875.8	881.4	892.2	913.7
165°	868.7	863.7	858.6	863.7	868.7	870.0	873.7	878.9	881.4	889.2	904.6
167.5°	877.1	874.7	872.4	874.7	877.1	877.7	880.9	885.2	887.3	892.4	902.5
170°	886.2	883.7	881.4	883.7	886.2	886.7	886.9	887.2	887.3	892.4	902.5
172.5°	887.2	886.6	886.2	886.6	887.2	887.3	887.3	887.3	887.3	891.3	899.3
175°	892.7	892.7	892.7	892.7	892.7	892.7	890.9	888.5	887.3	889.8	895.0
177.5°	892.7	892.7	892.7	892.7	892.7	892.7	891.4	889.5	888.6	890.6	894.6
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7



TEST NUMBER: P934579

CATALOG NUMBER: SQ4-FA-050U-125D-B2750-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7
2.5°	5017.6	5002.9	5022.5	4968.5	5022.5	5002.9	5017.6	5052.1	5022.5	5042.2	5061.9
5°	4402.7	4378.1	4299.4	4235.5	4299.4	4378.1	4402.7	4506.0	4555.2	4643.7	4761.8
7.5°	3935.4	3915.7	3896.1	3856.7	3896.1	3915.7	3935.4	3964.9	4014.1	4092.8	4181.3
10°	3832.1	3836.9	3866.5	3861.6	3866.5	3836.9	3832.1	3822.2	3807.5	3822.2	3876.4
12.5°	4097.7	4142.0	4304.3	4294.5	4304.3	4142.0	4097.7	3900.9	3768.2	3743.5	3753.3
15°	4402.7	4417.5	4451.9	4456.8	4451.9	4417.5	4402.7	4324.0	3925.5	3753.3	3699.3
17.5°	4432.2	4437.1	4461.8	4461.8	4461.8	4437.1	4432.2	4397.8	4265.0	4033.8	3728.8
20°	4407.6	4417.5	4466.7	4476.5	4466.7	4417.5	4407.6	4363.3	4289.6	4205.9	3974.7
22.5°	4397.8	4417.5	4456.8	4451.9	4456.8	4417.5	4397.8	4328.9	4265.0	4205.9	4112.4
25°	4348.6	4348.6	4353.5	4358.5	4353.5	4348.6	4348.6	4294.5	4166.6	4151.8	4097.7
27.5°	4245.3	4255.2	4284.6	4279.7	4284.6	4255.2	4245.3	4225.6	4087.9	4073.1	4033.8
30°	4151.8	4142.0	4117.4	4097.7	4117.4	4142.0	4151.8	4122.3	3984.5	3945.2	3955.1
32.5°	3994.4	3969.8	3945.2	3930.5	3945.2	3969.8	3994.4	3984.5	3881.2	3827.2	3836.9
35°	3807.5	3812.4	3807.5	3792.8	3807.5	3812.4	3807.5	3817.3	3753.3	3704.2	3699.3
37.5°	3674.6	3684.5	3679.6	3659.9	3679.6	3684.5	3674.6	3664.9	3576.3	3561.6	3571.3
40°	3536.9	3541.9	3536.9	3522.1	3536.9	3541.9	3536.9	3517.3	3394.3	3399.2	3433.7
42.5°	3404.1	3399.2	3384.4	3374.5	3384.4	3399.2	3404.1	3374.5	3217.2	3202.4	3266.4
45°	3251.6	3256.5	3227.0	3212.2	3227.0	3256.5	3251.6	3231.9	3069.6	3030.3	3074.5
47.5°	3099.2	3099.2	3074.5	3059.7	3074.5	3099.2	3099.2	3074.5	2902.3	2863.0	2887.6
50°	2936.7	2931.9	2897.4	2892.5	2897.4	2931.9	2936.7	2922.0	2740.0	2705.5	2705.5
52.5°	2749.8	2749.8	2754.8	2764.6	2754.8	2749.8	2749.8	2754.8	2592.5	2558.0	2548.2
55°	2587.5	2592.5	2626.9	2636.7	2626.9	2592.5	2587.5	2587.5	2439.9	2405.5	2385.8
57.5°	2420.3	2420.3	2444.9	2444.9	2444.9	2420.3	2420.3	2410.4	2267.8	2238.3	2228.4
60°	2228.4	2238.3	2258.0	2253.0	2258.0	2238.3	2228.4	2218.5	2095.6	2075.9	2041.5
62.5°	2026.8	2036.5	2041.5	2031.6	2041.5	2036.5	2026.8	1997.2	1923.4	1908.6	1864.4
65°	1815.2	1825.0	1830.0	1820.1	1830.0	1825.0	1815.2	1800.4	1746.3	1721.7	1682.4
67.5°	1598.8	1593.8	1588.9	1608.5	1588.9	1593.8	1598.8	1579.1	1544.7	1524.9	1470.8
70°	1377.3	1377.3	1372.5	1382.3	1372.5	1377.3	1377.3	1362.6	1342.9	1328.2	1279.0
72.5°	1141.3	1136.3	1156.0	1141.3	1156.0	1136.3	1141.3	1136.3	1126.5	1111.7	1062.5
75°	910.1	919.9	910.1	924.8	910.1	919.9	910.1	914.9	910.1	900.2	865.8
77.5°	693.6	703.5	693.6	693.6	693.6	703.5	693.6	698.6	698.6	698.6	669.0
80°	492.0	487.0	487.0	482.1	487.0	487.0	492.0	492.0	496.8	487.0	477.1
82.5°	314.8	309.9	309.9	319.8	309.9	309.9	314.8	319.8	309.9	309.9	309.9
85°	172.2	177.1	167.2	167.2	167.2	177.1	172.2	162.3	172.2	172.2	167.2
87.5°	64.0	59.0	59.0	59.0	59.0	59.0	64.0	68.9	68.9	68.9	73.7
90°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	30.3	40.5	45.5	39.1
92.5°	113.9	109.3	91.2	73.1	91.2	109.3	113.9	161.3	224.7	256.4	225.1
95°	386.4	372.7	317.8	263.0	317.8	372.7	386.4	507.5	668.8	749.5	633.0
97.5°	892.2	866.1	761.6	657.3	761.6	866.1	892.2	968.6	1070.6	1121.6	927.3
100°	1252.8	1221.7	1097.4	973.1	1097.4	1221.7	1252.8	1247.2	1239.7	1236.1	1020.5
102.5°	1560.8	1534.1	1427.6	1321.1	1427.6	1534.1	1560.8	1463.3	1333.3	1268.4	1049.8
105°	1920.3	1905.9	1848.8	1791.5	1848.8	1905.9	1920.3	1701.8	1410.5	1264.8	1053.1
107.5°	2107.3	2110.8	2124.5	2138.4	2124.5	2110.8	2107.3	1802.5	1396.1	1192.9	1006.3
110°	2155.2	2170.1	2229.7	2289.4	2229.7	2170.1	2155.2	1814.5	1360.2	1133.1	964.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2124.6	2147.5	2239.2	2330.7	2239.2	2147.5	2124.6	1775.9	1311.0	1078.5	928.4
115°	2020.9	2052.7	2179.8	2306.8	2179.8	2052.7	2020.9	1685.0	1237.1	1013.2	886.8
117.5°	1877.7	1912.9	2053.8	2194.7	2053.8	1912.9	1877.7	1574.5	1170.4	968.2	860.8
120°	1781.3	1815.5	1952.4	2089.3	1952.4	1815.5	1781.3	1504.3	1135.0	950.3	852.0
122.5°	1684.8	1718.5	1853.6	1988.6	1853.6	1718.5	1684.8	1435.4	1102.7	936.4	847.4
125°	1557.2	1588.3	1712.6	1837.0	1712.6	1588.3	1557.2	1345.3	1062.8	921.5	843.6
127.5°	1454.8	1481.0	1585.9	1690.8	1585.9	1481.0	1454.8	1272.8	1030.2	908.9	841.4
130°	1390.0	1414.3	1511.3	1608.2	1511.3	1414.3	1390.0	1228.1	1012.1	904.2	842.7
132.5°	1334.9	1356.6	1443.4	1530.2	1443.4	1356.6	1334.9	1189.9	996.6	899.9	843.6
135°	1257.1	1275.8	1350.6	1425.4	1350.6	1275.8	1257.1	1135.7	973.7	892.7	842.8
137.5°	1199.5	1214.8	1276.1	1337.3	1276.1	1214.8	1199.5	1096.9	960.0	891.6	848.1
140°	1153.4	1167.7	1224.9	1282.2	1224.9	1167.7	1153.4	1064.7	946.4	887.3	848.8
142.5°	1121.0	1133.3	1182.7	1231.9	1182.7	1133.3	1121.0	1043.1	939.3	887.3	851.9
145°	1072.5	1081.8	1119.1	1156.4	1119.1	1081.8	1072.5	1008.8	923.8	881.4	851.9
147.5°	1031.8	1039.5	1070.4	1101.3	1070.4	1039.5	1031.8	981.7	914.8	881.4	857.9
150°	1008.3	1014.6	1039.6	1064.7	1039.6	1014.6	1008.3	966.0	909.6	881.4	860.9
152.5°	989.8	994.6	1013.5	1032.4	1013.5	994.6	989.8	953.7	905.5	881.4	862.9
155°	967.6	970.7	983.3	995.8	983.3	970.7	967.6	938.9	900.6	881.4	867.3
157.5°	948.5	950.7	959.4	968.2	959.4	950.7	948.5	926.1	896.3	881.4	871.7
160°	938.9	940.1	945.3	950.3	945.3	940.1	938.9	919.7	894.2	881.4	873.7
162.5°	929.9	931.0	935.9	940.7	935.9	931.0	929.9	913.7	892.2	881.4	875.8
165°	916.1	917.4	922.5	927.5	922.5	917.4	916.1	904.6	889.2	881.4	878.9
167.5°	910.1	910.7	912.8	914.9	912.8	910.7	910.1	902.5	892.4	887.3	885.2
170°	910.1	910.1	910.1	910.1	910.1	910.1	910.1	902.5	892.4	887.3	887.2
172.5°	905.3	904.9	903.0	901.2	903.0	904.9	905.3	899.3	891.3	887.3	887.3
175°	898.7	898.7	898.7	898.7	898.7	898.7	898.7	895.0	889.8	887.3	888.5
177.5°	897.6	897.0	894.9	892.7	894.9	897.0	897.6	894.6	890.6	888.6	889.5
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	5199.7	5199.7	5199.7	5199.7	5199.7
2.5°	5135.7	5160.3	5175.0	5194.7	5243.9
5°	4938.9	5032.4	5061.9	5135.7	5224.2
7.5°	4506.0	4791.3	4870.0	5047.1	5184.8
10°	4087.9	4373.2	4510.9	4929.1	5135.7
12.5°	3876.4	4043.6	4137.0	4722.4	5066.8
15°	3743.5	3861.6	3930.5	4446.9	4988.1
17.5°	3640.2	3723.9	3773.1	4176.4	4879.9
20°	3576.3	3615.6	3659.9	3979.7	4756.9
22.5°	3532.0	3507.4	3541.9	3841.9	4589.7
25°	3502.5	3409.0	3448.4	3733.7	4392.9
27.5°	3527.1	3320.5	3335.2	3635.3	4186.3
30°	3532.0	3212.2	3217.2	3532.0	3955.1
32.5°	3497.6	3099.2	3104.0	3404.1	3694.3
35°	3414.0	2966.3	2961.4	3256.5	3340.1
37.5°	3300.8	2823.7	2823.7	3094.2	2951.6
40°	3163.1	2680.9	2695.8	2882.7	2607.2
42.5°	2995.8	2528.5	2548.2	2602.2	2351.4
45°	2813.8	2380.9	2395.7	2198.9	2154.6
47.5°	2612.1	2228.4	2233.4	1825.0	2090.7
50°	2371.0	2070.9	2051.3	1564.4	2085.8
52.5°	2159.5	1898.9	1839.7	1416.8	1893.9
55°	1952.9	1716.8	1588.9	1303.6	1756.1
57.5°	1770.9	1480.7	1357.7	1170.7	1726.7
60°	1603.7	1249.5	1156.0	1028.1	1584.0
62.5°	1465.9	1077.3	1057.7	929.8	1436.4
65°	1318.3	959.2	954.4	846.1	1220.0
67.5°	1175.7	880.5	875.6	767.4	929.8
70°	1023.2	796.9	787.1	683.7	688.7
72.5°	865.8	703.5	693.6	614.9	570.6
75°	708.3	595.3	590.3	536.1	462.4
77.5°	555.9	472.3	482.1	432.9	339.4
80°	398.5	344.4	354.2	309.9	255.8
82.5°	265.6	226.3	236.1	196.8	172.2
85°	147.6	127.9	132.8	103.3	78.7
87.5°	68.9	59.0	59.0	39.3	24.6
90°	26.4	16.8	15.6	10.8	6.0
92.5°	162.5	115.6	105.4	64.6	23.9
95°	400.0	225.3	206.7	132.1	57.6
97.5°	538.9	247.5	231.0	165.2	99.4
100°	589.3	266.0	251.1	191.5	131.8
102.5°	612.5	284.6	270.6	215.0	159.4
105°	629.7	312.1	300.3	253.2	206.1
107.5°	633.0	352.9	342.0	298.0	254.1
110°	628.1	375.7	365.8	326.1	286.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	628.3	403.2	393.7	355.9	318.1
115°	634.1	444.6	435.9	401.0	366.1
117.5°	645.8	484.7	476.7	445.1	413.4
120°	655.4	508.0	500.6	470.8	441.0
122.5°	669.3	535.7	528.1	498.1	467.9
125°	687.9	571.0	564.2	536.7	509.3
127.5°	706.4	605.1	598.3	570.5	542.8
130°	720.0	627.9	620.5	590.7	560.9
132.5°	731.0	646.5	639.1	609.2	579.4
135°	742.9	668.0	661.2	634.1	607.0
137.5°	761.0	695.6	689.0	662.0	635.1
140°	771.9	714.2	708.0	683.2	658.4
142.5°	781.1	728.0	722.3	699.3	676.5
145°	793.1	748.9	743.9	723.9	704.0
147.5°	810.7	775.3	770.5	751.0	731.6
150°	819.9	789.1	784.7	767.1	749.5
152.5°	825.9	798.1	794.8	781.4	768.1
155°	839.1	817.8	815.4	805.5	795.6
157.5°	852.2	837.6	835.2	825.7	816.1
160°	858.2	846.6	844.8	837.3	829.9
162.5°	864.6	856.2	854.9	849.2	843.6
165°	873.7	870.0	868.7	863.7	858.6
167.5°	880.9	877.7	877.1	874.7	872.4
170°	886.9	886.7	886.2	883.7	881.4
172.5°	887.3	887.3	887.2	886.6	886.2
175°	890.9	892.7	892.7	892.7	892.7
177.5°	891.4	892.7	892.7	892.7	892.7
180°	892.7	892.7	892.7	892.7	892.7



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.13	17.20	16.89	17.99	18.95	18.98	20.06	19.75	20.84	21.80
	3H	16.62	17.59	17.40	18.38	19.37	20.35	21.31	21.13	22.11	23.10
	4H	16.82	17.73	17.62	18.54	19.53	20.81	21.72	21.60	22.52	23.52
	6H	16.95	17.79	17.76	18.61	19.62	21.11	21.95	21.92	22.76	23.77
	8H	16.96	17.76	17.78	18.59	19.60	21.19	21.99	22.01	22.83	23.84
	12H	16.94	17.70	17.76	18.53	19.56	21.24	22.00	22.07	22.83	23.87
4H	2H	17.19	18.10	17.99	18.91	19.90	19.42	20.33	20.21	21.13	22.13
	3H	18.24	19.00	19.05	19.84	20.85	20.95	21.71	21.76	22.55	23.56
	4H	18.53	19.22	19.35	20.05	21.09	21.49	22.18	22.31	23.02	24.06
	6H	18.66	19.26	19.50	20.12	21.17	21.87	22.47	22.71	23.33	24.38
	8H	18.67	19.23	19.52	20.09	21.15	21.99	22.54	22.83	23.40	24.46
	12H	18.65	19.15	19.52	20.03	21.09	22.06	22.56	22.92	23.44	24.50
8H	4H	19.00	19.56	19.85	20.41	21.47	21.63	22.19	22.48	23.04	24.10
	6H	19.27	19.73	20.14	20.63	21.69	22.08	22.54	22.95	23.44	24.50
	8H	19.31	19.72	20.20	20.62	21.69	22.24	22.65	23.12	23.54	24.62
	12H	19.31	19.67	20.20	20.55	21.68	22.35	22.71	23.24	23.60	24.73
12H	4H	19.02	19.52	19.88	20.40	21.46	21.60	22.11	22.47	22.98	24.05
	6H	19.33	19.74	20.22	20.64	21.71	22.08	22.49	22.96	23.38	24.46
	8H	19.41	19.77	20.30	20.66	21.79	22.25	22.62	23.14	23.50	24.63