

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: P936034

Luminaire Tested: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936034
REPORT IS A COMBINATION OF REPORTS P933778 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

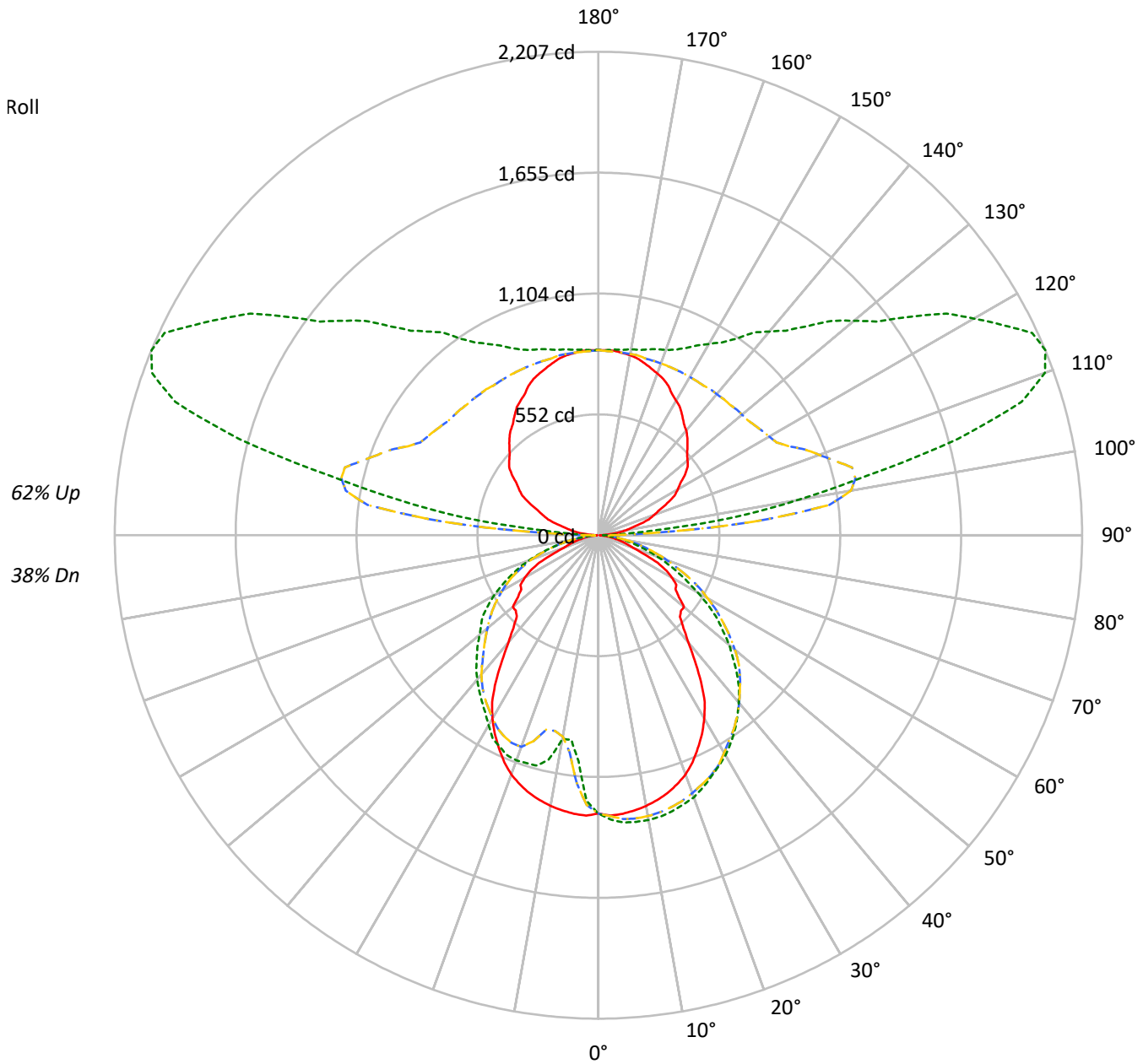
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8777.1 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 72.4
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

TEST NUMBER: P936034
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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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11787	11787	11787	11787
5°	11863	11900	11863	9357
10°	11771	11721	11771	8380
15°	11629	11467	11629	9575
20°	11373	11167	11373	9596
25°	10862	10728	10862	9392
30°	10206	10364	10206	8946
35°	9085	9903	9085	8455
40°	7558	9360	7558	8084
45°	6739	8726	6739	7658
50°	7144	7968	7144	7231
55°	6703	7153	6703	6983
60°	6884	6074	6884	6395
65°	6212	5021	6212	5613
70°	4273	4003	4273	4705
75°	3706	2958	3706	3543
80°	2925	1956	2925	2130
85°	1590	1034	1590	879

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10349 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	1.3
10°-20°	325.6	3.7
20°-30°	503.3	5.7
30°-40°	600.8	6.8
40°-50°	604.4	6.9
50°-60°	525.9	6.0
60°-70°	372.8	4.2
70°-80°	197.3	2.2
80°-90°	52.3	0.6
90°-100°	412.1	4.7
100°-110°	1083.4	12.3
110°-120°	1123.3	12.8
120°-130°	901.0	10.3
130°-140°	707.0	8.1
140°-150°	542.6	6.2
150°-160°	390.8	4.5
160°-170°	239.1	2.7
170°-180°	80.8	0.9
0°-30°	943.6	10.8
0°-40°	1544.4	17.6
0°-60°	2674.6	30.5
0°-90°	3297.0	37.6
90°-120°	2618.8	29.8
90°-150°	4769.4	54.3
90°-180°	5480.0	62.4
0°-180°	8777.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1270	1270	1270	1270	1270	
5°	1276	1316	1276	1035	1276	121
15°	1219	1304	1219	1089	1219	343
25°	1073	1216	1073	1065	1073	493
35°	816	1085	816	927	816	505
45°	526	894	526	785	526	422
55°	429	660	429	644	429	394
65°	298	398	298	445	298	285
75°	113	189	113	226	113	119
85°	19	48	19	41	19	26
90°	6	22	6	22	6	5
95°	54	249	54	249	54	60
105°	195	1696	195	1696	195	207
115°	347	2184	347	2184	347	342
125°	482	1740	482	1740	482	428
135°	575	1350	575	1350	575	445
145°	667	1095	667	1095	667	418
155°	754	943	754	943	754	346
165°	813	878	813	878	813	229
175°	845	851	845	851	845	80
180°	845	845	845	845	845	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3
2.5°	1281.1	1281.1	1288.4	1290.8	1290.8	1287.1	1283.6	1287.1	1298.0	1301.6	1300.4
5°	1276.4	1286.0	1299.2	1301.6	1304.0	1302.8	1300.4	1302.8	1314.8	1317.2	1318.4
7.5°	1266.8	1284.8	1301.6	1305.2	1308.8	1305.2	1304.0	1306.4	1318.4	1320.8	1320.8
10°	1254.8	1280.0	1299.2	1301.6	1305.2	1301.6	1301.6	1306.4	1318.4	1320.8	1322.1
12.5°	1237.9	1272.8	1290.8	1293.2	1298.0	1296.8	1295.6	1300.4	1312.4	1314.8	1314.8
15°	1218.6	1259.6	1276.4	1278.8	1287.1	1284.8	1284.8	1289.6	1302.8	1306.4	1305.2
17.5°	1192.3	1242.7	1261.9	1265.6	1271.6	1270.3	1271.6	1276.4	1288.4	1290.8	1292.0
20°	1162.2	1219.9	1242.7	1246.3	1252.3	1252.3	1252.3	1258.3	1270.3	1275.1	1275.1
22.5°	1121.3	1195.8	1219.9	1222.3	1229.5	1229.5	1231.9	1240.3	1251.1	1252.3	1252.3
25°	1073.3	1169.4	1189.8	1197.1	1204.3	1207.8	1211.5	1216.3	1219.9	1218.6	1219.9
27.5°	1022.8	1135.8	1162.2	1167.0	1176.6	1180.3	1185.0	1186.3	1187.4	1191.0	1188.6
30°	966.3	1088.8	1128.5	1133.3	1149.0	1151.3	1146.6	1149.0	1155.0	1157.4	1159.8
32.5°	902.5	1019.2	1093.7	1104.5	1118.9	1111.7	1110.5	1114.1	1123.8	1123.8	1126.1
35°	816.0	965.1	1061.3	1070.8	1081.6	1073.3	1078.0	1079.3	1085.3	1088.8	1087.7
37.5°	721.1	918.2	1027.6	1034.8	1043.2	1032.3	1039.6	1043.2	1048.0	1045.6	1045.6
40°	637.0	844.9	988.0	992.7	1000.0	991.5	998.7	1001.1	1003.5	1001.1	1000.0
42.5°	574.5	764.4	945.8	951.8	947.0	953.0	955.5	960.3	956.7	951.8	951.8
45°	526.4	742.7	900.2	907.4	900.2	909.8	913.4	913.4	902.5	900.2	899.0
47.5°	510.8	699.5	854.5	854.5	850.9	862.9	869.0	860.5	849.7	846.1	846.1
50°	509.6	651.4	792.0	787.2	804.0	818.5	812.5	804.0	795.7	782.4	782.4
52.5°	462.7	592.5	711.5	729.5	756.0	764.4	754.7	746.4	731.9	725.9	721.1
55°	429.1	531.2	638.2	674.2	701.9	712.7	694.7	686.2	664.6	661.0	658.6
57.5°	421.9	442.3	570.9	616.6	650.2	649.0	638.2	622.6	604.5	600.9	599.7
60°	387.0	319.6	498.8	552.9	587.7	584.1	574.5	560.1	543.2	540.9	538.4
62.5°	350.9	232.0	417.1	478.4	527.6	526.4	518.0	496.4	484.4	478.4	473.6
65°	298.1	194.7	296.8	397.8	468.7	471.1	453.1	437.4	424.3	417.1	415.8
67.5°	227.1	158.6	200.7	331.7	412.2	409.8	387.0	379.8	362.9	359.3	352.1
70°	168.3	105.8	139.4	269.3	356.9	350.9	332.9	324.5	308.9	300.5	295.6
72.5°	139.4	85.3	102.2	209.1	300.5	293.3	277.6	268.0	254.8	247.6	242.8
75°	113.0	90.1	78.1	155.0	244.0	239.1	224.8	215.1	204.3	194.7	195.9
77.5°	83.0	84.1	62.5	114.2	193.5	186.3	177.8	165.8	161.0	151.5	151.5
80°	62.5	66.1	46.8	78.1	139.4	139.4	132.2	123.8	115.3	110.6	110.6
82.5°	42.0	42.0	34.8	49.3	95.0	91.3	86.5	84.1	79.3	77.0	77.0
85°	19.2	24.0	21.6	30.0	51.7	54.1	54.1	51.7	50.5	48.0	49.3
87.5°	6.0	10.8	13.2	16.8	26.5	27.7	28.8	28.8	28.8	30.0	30.0
90°	5.6	10.2	14.7	15.9	25.0	37.1	43.1	38.3	28.7	21.6	21.6
92.5°	22.6	61.2	99.9	109.5	153.9	213.1	242.8	212.8	152.8	107.8	103.5
95°	54.5	125.1	195.7	213.3	378.8	599.5	709.8	633.4	480.6	365.9	352.9
97.5°	94.1	156.5	218.8	234.3	510.2	878.2	1062.1	1013.8	917.2	844.8	820.0
100°	124.8	181.3	237.8	251.9	558.1	966.3	1170.4	1174.0	1181.1	1186.3	1156.9
102.5°	150.9	203.7	256.3	269.5	580.1	994.1	1201.1	1262.6	1385.7	1478.0	1452.8
105°	195.2	239.9	284.4	295.6	596.3	997.1	1197.6	1335.5	1611.4	1818.4	1804.8
107.5°	240.6	282.2	323.8	334.2	599.4	952.8	1129.6	1322.0	1706.8	1995.4	1998.7
110°	271.2	308.7	346.4	355.8	594.8	913.5	1072.8	1288.0	1718.1	2040.8	2054.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	301.3	337.1	373.0	381.9	595.0	879.2	1021.2	1241.4	1681.6	2011.8	2033.5
115°	346.7	379.7	412.7	421.0	600.5	839.8	959.4	1171.4	1595.6	1913.7	1943.8
117.5°	391.5	421.5	451.5	459.0	611.6	815.1	916.8	1108.2	1491.0	1778.1	1811.5
120°	417.5	445.8	474.0	481.1	620.6	806.8	899.8	1074.6	1424.4	1686.7	1719.1
122.5°	443.1	471.6	500.1	507.2	633.7	802.5	886.8	1044.3	1359.2	1595.4	1627.3
125°	482.3	508.2	534.2	540.7	651.3	798.8	872.6	1006.3	1273.9	1474.5	1504.0
127.5°	514.0	540.2	566.4	573.0	668.9	796.8	860.7	975.6	1205.3	1377.6	1402.4
130°	531.0	559.2	587.4	594.5	681.8	798.0	856.2	958.4	1162.9	1316.2	1339.2
132.5°	548.6	576.9	605.1	612.2	692.1	798.8	852.1	943.7	1126.8	1264.0	1284.6
135°	574.7	600.5	626.1	632.6	703.5	798.0	845.3	922.0	1075.3	1190.3	1208.0
137.5°	601.4	626.8	652.3	658.7	720.5	803.0	844.2	909.0	1038.6	1135.9	1150.3
140°	623.6	647.0	670.5	676.3	731.0	803.8	840.2	896.2	1008.2	1092.1	1105.7
142.5°	640.6	662.2	683.9	689.3	739.6	806.7	840.2	889.4	987.8	1061.5	1073.2
145°	666.7	685.6	704.4	709.2	751.0	806.8	834.6	874.8	955.2	1015.5	1024.3
147.5°	692.7	711.2	729.5	734.2	767.6	812.3	834.6	866.2	929.5	977.0	984.2
150°	709.8	726.4	743.0	747.2	776.3	815.1	834.6	861.3	914.7	954.8	960.8
152.5°	727.3	740.0	752.5	755.7	782.0	817.0	834.6	857.4	903.1	937.3	941.7
155°	753.5	762.8	772.1	774.5	794.5	821.2	834.6	852.8	889.1	916.3	919.3
157.5°	772.7	781.8	790.8	793.1	806.9	825.4	834.6	848.7	876.9	898.1	900.2
160°	785.7	792.8	799.9	801.7	812.7	827.3	834.6	846.7	870.9	889.0	890.2
162.5°	798.8	804.1	809.4	810.8	818.7	829.3	834.6	844.8	865.2	880.5	881.6
165°	813.0	817.8	822.6	823.8	827.4	832.2	834.6	841.9	856.5	867.4	868.6
167.5°	826.0	828.3	830.6	831.1	834.1	838.2	840.2	845.1	854.6	861.8	862.3
170°	834.6	836.9	839.1	839.7	839.9	840.1	840.2	845.1	854.6	861.8	861.8
172.5°	839.1	839.6	840.1	840.2	840.2	840.2	840.2	844.1	851.6	857.2	856.8
175°	845.3	845.3	845.3	845.3	843.6	841.3	840.2	842.6	847.4	851.1	851.1
177.5°	845.3	845.3	845.3	845.3	844.1	842.3	841.4	843.3	847.1	849.9	849.3
180°	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3
2.5°	1302.8	1299.2	1302.8	1300.4	1301.6	1298.0	1287.1	1283.6	1287.1	1290.8	1290.8
5°	1318.4	1316.1	1318.4	1318.4	1317.2	1314.8	1302.8	1300.4	1302.8	1304.0	1301.6
7.5°	1323.2	1319.6	1323.2	1320.8	1320.8	1318.4	1306.4	1304.0	1305.2	1308.8	1305.2
10°	1323.2	1319.6	1323.2	1322.1	1320.8	1318.4	1306.4	1301.6	1301.6	1305.2	1301.6
12.5°	1317.2	1314.8	1317.2	1314.8	1314.8	1312.4	1300.4	1295.6	1296.8	1298.0	1293.2
15°	1307.6	1304.0	1307.6	1305.2	1306.4	1302.8	1289.6	1284.8	1284.8	1287.1	1278.8
17.5°	1293.2	1288.4	1293.2	1292.0	1290.8	1288.4	1276.4	1271.6	1270.3	1271.6	1265.6
20°	1276.4	1272.8	1276.4	1275.1	1275.1	1270.3	1258.3	1252.3	1252.3	1252.3	1246.3
22.5°	1249.9	1246.3	1249.9	1252.3	1252.3	1251.1	1240.3	1231.9	1229.5	1229.5	1222.3
25°	1219.9	1216.3	1219.9	1219.9	1218.6	1219.9	1216.3	1211.5	1207.8	1204.3	1197.1
27.5°	1191.0	1188.6	1191.0	1188.6	1191.0	1187.4	1186.3	1185.0	1180.3	1176.6	1167.0
30°	1162.2	1159.8	1162.2	1159.8	1157.4	1155.0	1149.0	1146.6	1151.3	1149.0	1133.3
32.5°	1126.1	1123.8	1126.1	1126.1	1123.8	1123.8	1114.1	1110.5	1111.7	1118.9	1104.5
35°	1088.8	1085.3	1088.8	1087.7	1088.8	1085.3	1079.3	1078.0	1073.3	1081.6	1070.8
37.5°	1045.6	1042.0	1045.6	1045.6	1045.6	1048.0	1043.2	1039.6	1032.3	1043.2	1034.8
40°	1001.1	996.3	1001.1	1000.0	1001.1	1003.5	1001.1	998.7	991.5	1000.0	992.7
42.5°	950.7	949.5	950.7	951.8	951.8	956.7	960.3	955.5	953.0	947.0	951.8
45°	896.5	894.2	896.5	899.0	900.2	902.5	913.4	913.4	909.8	900.2	907.4
47.5°	838.9	832.9	838.9	846.1	846.1	849.7	860.5	869.0	862.9	850.9	854.5
50°	777.6	778.8	777.6	782.4	782.4	795.7	804.0	812.5	818.5	804.0	787.2
52.5°	717.5	716.3	717.5	721.1	725.9	731.9	746.4	754.7	764.4	756.0	729.5
55°	657.4	659.9	657.4	658.6	661.0	664.6	686.2	694.7	712.7	701.9	674.2
57.5°	597.4	593.7	597.4	599.7	600.9	604.5	622.6	638.2	649.0	650.2	616.6
60°	527.6	522.8	527.6	538.4	540.9	543.2	560.1	574.5	584.1	587.7	552.9
62.5°	466.3	457.9	466.3	473.6	478.4	484.4	496.4	518.0	526.4	527.6	478.4
65°	401.4	397.8	401.4	415.8	417.1	424.3	437.4	453.1	471.1	468.7	397.8
67.5°	342.6	342.6	342.6	352.1	359.3	362.9	379.8	387.0	409.8	412.2	331.7
70°	288.4	287.3	288.4	295.6	300.5	308.9	324.5	332.9	350.9	356.9	269.3
72.5°	236.8	235.6	236.8	242.8	247.6	254.8	268.0	277.6	293.3	300.5	209.1
75°	191.1	188.7	191.1	195.9	194.7	204.3	215.1	224.8	239.1	244.0	155.0
77.5°	146.6	146.6	146.6	151.5	151.5	161.0	165.8	177.8	186.3	193.5	114.2
80°	109.3	108.2	109.3	110.6	110.6	115.3	123.8	132.2	139.4	139.4	78.1
82.5°	77.0	74.5	77.0	77.0	77.0	79.3	84.1	86.5	91.3	95.0	49.3
85°	48.0	48.0	48.0	49.3	48.0	50.5	51.7	54.1	54.1	51.7	30.0
87.5°	31.3	30.0	31.3	30.0	30.0	28.8	28.8	28.8	27.7	26.5	16.8
90°	21.6	21.6	21.6	21.6	21.6	28.7	38.3	43.1	37.1	25.0	15.9
92.5°	86.3	69.2	86.3	103.5	107.8	152.8	212.8	242.8	213.1	153.9	109.5
95°	301.0	249.1	301.0	352.9	365.9	480.6	633.4	709.8	599.5	378.8	213.3
97.5°	721.3	622.4	721.3	820.0	844.8	917.2	1013.8	1062.1	878.2	510.2	234.3
100°	1039.2	921.4	1039.2	1156.9	1186.3	1181.1	1174.0	1170.4	966.3	558.1	251.9
102.5°	1351.9	1251.0	1351.9	1452.8	1478.0	1385.7	1262.6	1201.1	994.1	580.1	269.5
105°	1750.6	1696.4	1750.6	1804.8	1818.4	1611.4	1335.5	1197.6	997.1	596.3	295.6
107.5°	2011.8	2024.9	2011.8	1998.7	1995.4	1706.8	1322.0	1129.6	952.8	599.4	334.2
110°	2111.4	2167.8	2111.4	2054.9	2040.8	1718.1	1288.0	1072.8	913.5	594.8	355.8



TEST NUMBER: P936034

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2120.3	2207.0	2120.3	2033.5	2011.8	1681.6	1241.4	1021.2	879.2	595.0	381.9
115°	2064.1	2184.3	2064.1	1943.8	1913.7	1595.6	1171.4	959.4	839.8	600.5	421.0
117.5°	1944.8	2078.2	1944.8	1811.5	1778.1	1491.0	1108.2	916.8	815.1	611.6	459.0
120°	1848.7	1978.4	1848.7	1719.1	1686.7	1424.4	1074.6	899.8	806.8	620.6	481.1
122.5°	1755.2	1883.0	1755.2	1627.3	1595.4	1359.2	1044.3	886.8	802.5	633.7	507.2
125°	1621.7	1739.5	1621.7	1504.0	1474.5	1273.9	1006.3	872.6	798.8	651.3	540.7
127.5°	1501.7	1601.1	1501.7	1402.4	1377.6	1205.3	975.6	860.7	796.8	668.9	573.0
130°	1430.9	1522.7	1430.9	1339.2	1316.2	1162.9	958.4	856.2	798.0	681.8	594.5
132.5°	1366.7	1449.0	1366.7	1284.6	1264.0	1126.8	943.7	852.1	798.8	692.1	612.2
135°	1278.9	1349.7	1278.9	1208.0	1190.3	1075.3	922.0	845.3	798.0	703.5	632.6
137.5°	1208.4	1266.3	1208.4	1150.3	1135.9	1038.6	909.0	844.2	803.0	720.5	658.7
140°	1159.9	1214.1	1159.9	1105.7	1092.1	1008.2	896.2	840.2	803.8	731.0	676.3
142.5°	1119.9	1166.4	1119.9	1073.2	1061.5	987.8	889.4	840.2	806.7	739.6	689.3
145°	1059.7	1095.0	1059.7	1024.3	1015.5	955.2	874.8	834.6	806.8	751.0	709.2
147.5°	1013.5	1042.8	1013.5	984.2	977.0	929.5	866.2	834.6	812.3	767.6	734.2
150°	984.5	1008.2	984.5	960.8	954.8	914.7	861.3	834.6	815.1	776.3	747.2
152.5°	959.7	977.5	959.7	941.7	937.3	903.1	857.4	834.6	817.0	782.0	755.7
155°	931.1	942.9	931.1	919.3	916.3	889.1	852.8	834.6	821.2	794.5	774.5
157.5°	908.5	916.8	908.5	900.2	898.1	876.9	848.7	834.6	825.4	806.9	793.1
160°	895.0	899.8	895.0	890.2	889.0	870.9	846.7	834.6	827.3	812.7	801.7
162.5°	886.2	890.7	886.2	881.6	880.5	865.2	844.8	834.6	829.3	818.7	810.8
165°	873.4	878.3	873.4	868.6	867.4	856.5	841.9	834.6	832.2	827.4	823.8
167.5°	864.3	866.3	864.3	862.3	861.8	854.6	845.1	840.2	838.2	834.1	831.1
170°	861.8	861.8	861.8	861.8	861.8	854.6	845.1	840.2	840.1	839.9	839.7
172.5°	855.1	853.3	855.1	856.8	857.2	851.6	844.1	840.2	840.2	840.2	840.2
175°	851.1	851.1	851.1	851.1	851.1	847.4	842.6	840.2	841.3	843.6	845.3
177.5°	847.3	845.3	847.3	849.3	849.9	847.1	843.3	841.4	842.3	844.1	845.3
180°	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3



TEST NUMBER: P936034

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3
2.5°	1288.4	1281.1	1281.1	1269.1	1264.3	1260.8	1254.8	1236.7	1231.9	1227.1	1234.3
5°	1299.2	1286.0	1276.4	1254.8	1236.7	1229.5	1206.6	1163.4	1134.5	1112.9	1100.9
7.5°	1301.6	1284.8	1266.8	1233.1	1189.8	1170.6	1100.9	1021.6	1000.0	980.7	968.7
10°	1299.2	1280.0	1254.8	1204.3	1102.1	1068.5	998.7	947.0	933.8	930.2	933.8
12.5°	1290.8	1272.8	1237.9	1153.8	1010.8	988.0	947.0	917.0	914.6	920.6	953.0
15°	1276.4	1259.6	1218.6	1086.5	960.3	943.5	914.6	903.8	917.0	959.0	1056.5
17.5°	1261.9	1242.7	1192.3	1020.3	921.8	909.8	889.4	911.0	985.5	1042.0	1074.5
20°	1242.7	1219.9	1162.2	972.3	894.2	883.3	873.7	971.1	1027.6	1048.0	1066.0
22.5°	1219.9	1195.8	1121.3	938.7	865.3	856.9	862.9	1004.8	1027.6	1042.0	1057.6
25°	1189.8	1169.4	1073.3	912.2	842.5	832.9	855.7	1001.1	1014.3	1018.0	1049.2
27.5°	1162.2	1135.8	1022.8	888.2	814.9	811.2	861.7	985.5	995.1	998.7	1032.3
30°	1128.5	1088.8	966.3	862.9	786.0	784.8	862.9	966.3	963.9	973.5	1007.2
32.5°	1093.7	1019.2	902.5	831.7	758.4	757.2	854.5	937.5	935.0	948.3	973.5
35°	1061.3	965.1	816.0	795.7	723.5	724.7	834.0	903.8	905.0	917.0	932.7
37.5°	1027.6	918.2	721.1	756.0	689.9	689.9	806.4	872.5	870.2	873.7	895.4
40°	988.0	844.9	637.0	704.2	658.6	655.0	772.8	838.9	830.5	829.3	859.3
42.5°	945.8	764.4	574.5	635.7	622.6	617.7	731.9	798.0	782.4	786.0	824.5
45°	900.2	742.7	526.4	537.2	585.3	581.7	687.4	751.2	740.4	750.0	789.7
47.5°	854.5	699.5	510.8	445.9	545.6	544.4	638.2	705.5	699.5	709.1	751.2
50°	792.0	651.4	509.6	382.2	501.2	505.9	579.3	661.0	661.0	669.4	713.9
52.5°	711.5	592.5	462.7	346.1	449.5	463.9	527.6	622.6	624.9	633.4	673.0
55°	638.2	531.2	429.1	318.5	388.2	419.4	477.1	582.9	587.7	596.1	632.2
57.5°	570.9	442.3	421.9	286.1	331.7	361.8	432.6	544.4	546.9	554.1	588.9
60°	498.8	319.6	387.0	251.2	282.4	305.3	391.8	498.8	507.2	511.9	542.1
62.5°	417.1	232.0	350.9	227.1	258.4	263.2	358.1	455.5	466.3	469.9	487.9
65°	296.8	194.7	298.1	206.8	233.1	234.3	322.1	411.1	420.6	426.6	439.9
67.5°	200.7	158.6	227.1	187.5	213.9	215.1	287.3	359.3	372.6	377.4	385.8
70°	139.4	105.8	168.3	167.1	192.3	194.7	250.0	312.5	324.5	328.1	332.9
72.5°	102.2	85.3	139.4	150.3	169.5	171.8	211.5	259.6	271.6	275.3	277.6
75°	78.1	90.1	113.0	131.0	144.2	145.5	173.1	211.5	220.0	222.3	223.5
77.5°	62.5	84.1	83.0	105.8	117.8	115.3	135.8	163.5	170.6	170.6	170.6
80°	46.8	66.1	62.5	75.7	86.5	84.1	97.3	116.6	119.0	121.3	120.2
82.5°	34.8	42.0	42.0	48.0	57.7	55.3	64.9	75.7	75.7	75.7	78.1
85°	21.6	24.0	19.2	25.2	32.5	31.3	36.0	40.8	42.0	42.0	39.7
87.5°	13.2	10.8	6.0	9.6	14.5	14.5	16.8	18.0	16.8	16.8	16.8
90°	14.7	10.2	5.6	10.2	14.7	15.9	25.0	37.1	43.1	38.3	28.7
92.5°	99.9	61.2	22.6	61.2	99.9	109.5	153.9	213.1	242.8	212.8	152.8
95°	195.7	125.1	54.5	125.1	195.7	213.3	378.8	599.5	709.8	633.4	480.6
97.5°	218.8	156.5	94.1	156.5	218.8	234.3	510.2	878.2	1062.1	1013.8	917.2
100°	237.8	181.3	124.8	181.3	237.8	251.9	558.1	966.3	1170.4	1174.0	1181.1
102.5°	256.3	203.7	150.9	203.7	256.3	269.5	580.1	994.1	1201.1	1262.6	1385.7
105°	284.4	239.9	195.2	239.9	284.4	295.6	596.3	997.1	1197.6	1335.5	1611.4
107.5°	323.8	282.2	240.6	282.2	323.8	334.2	599.4	952.8	1129.6	1322.0	1706.8
110°	346.4	308.7	271.2	308.7	346.4	355.8	594.8	913.5	1072.8	1288.0	1718.1



TEST NUMBER: P936034

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	373.0	337.1	301.3	337.1	373.0	381.9	595.0	879.2	1021.2	1241.4	1681.6
115°	412.7	379.7	346.7	379.7	412.7	421.0	600.5	839.8	959.4	1171.4	1595.6
117.5°	451.5	421.5	391.5	421.5	451.5	459.0	611.6	815.1	916.8	1108.2	1491.0
120°	474.0	445.8	417.5	445.8	474.0	481.1	620.6	806.8	899.8	1074.6	1424.4
122.5°	500.1	471.6	443.1	471.6	500.1	507.2	633.7	802.5	886.8	1044.3	1359.2
125°	534.2	508.2	482.3	508.2	534.2	540.7	651.3	798.8	872.6	1006.3	1273.9
127.5°	566.4	540.2	514.0	540.2	566.4	573.0	668.9	796.8	860.7	975.6	1205.3
130°	587.4	559.2	531.0	559.2	587.4	594.5	681.8	798.0	856.2	958.4	1162.9
132.5°	605.1	576.9	548.6	576.9	605.1	612.2	692.1	798.8	852.1	943.7	1126.8
135°	626.1	600.5	574.7	600.5	626.1	632.6	703.5	798.0	845.3	922.0	1075.3
137.5°	652.3	626.8	601.4	626.8	652.3	658.7	720.5	803.0	844.2	909.0	1038.6
140°	670.5	647.0	623.6	647.0	670.5	676.3	731.0	803.8	840.2	896.2	1008.2
142.5°	683.9	662.2	640.6	662.2	683.9	689.3	739.6	806.7	840.2	889.4	987.8
145°	704.4	685.6	666.7	685.6	704.4	709.2	751.0	806.8	834.6	874.8	955.2
147.5°	729.5	711.2	692.7	711.2	729.5	734.2	767.6	812.3	834.6	866.2	929.5
150°	743.0	726.4	709.8	726.4	743.0	747.2	776.3	815.1	834.6	861.3	914.7
152.5°	752.5	740.0	727.3	740.0	752.5	755.7	782.0	817.0	834.6	857.4	903.1
155°	772.1	762.8	753.5	762.8	772.1	774.5	794.5	821.2	834.6	852.8	889.1
157.5°	790.8	781.8	772.7	781.8	790.8	793.1	806.9	825.4	834.6	848.7	876.9
160°	799.9	792.8	785.7	792.8	799.9	801.7	812.7	827.3	834.6	846.7	870.9
162.5°	809.4	804.1	798.8	804.1	809.4	810.8	818.7	829.3	834.6	844.8	865.2
165°	822.6	817.8	813.0	817.8	822.6	823.8	827.4	832.2	834.6	841.9	856.5
167.5°	830.6	828.3	826.0	828.3	830.6	831.1	834.1	838.2	840.2	845.1	854.6
170°	839.1	836.9	834.6	836.9	839.1	839.7	839.9	840.1	840.2	845.1	854.6
172.5°	840.1	839.6	839.1	839.6	840.1	840.2	840.2	840.2	840.2	844.1	851.6
175°	845.3	845.3	845.3	845.3	845.3	845.3	843.6	841.3	840.2	842.6	847.4
177.5°	845.3	845.3	845.3	845.3	845.3	845.3	844.1	842.3	841.4	843.3	847.1
180°	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3



TEST NUMBER: P936034

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3
2.5°	1225.9	1222.3	1227.1	1213.8	1227.1	1222.3	1225.9	1234.3	1227.1	1231.9	1236.7
5°	1075.6	1069.6	1050.4	1034.8	1050.4	1069.6	1075.6	1100.9	1112.9	1134.5	1163.4
7.5°	961.5	956.7	951.8	942.2	951.8	956.7	961.5	968.7	980.7	1000.0	1021.6
10°	936.2	937.5	944.7	943.5	944.7	937.5	936.2	933.8	930.2	933.8	947.0
12.5°	1001.1	1012.0	1051.6	1049.2	1051.6	1012.0	1001.1	953.0	920.6	914.6	917.0
15°	1075.6	1079.3	1087.7	1088.8	1087.7	1079.3	1075.6	1056.5	959.0	917.0	903.8
17.5°	1082.8	1084.1	1090.1	1090.1	1090.1	1084.1	1082.8	1074.5	1042.0	985.5	911.0
20°	1076.8	1079.3	1091.3	1093.7	1091.3	1079.3	1076.8	1066.0	1048.0	1027.6	971.1
22.5°	1074.5	1079.3	1088.8	1087.7	1088.8	1079.3	1074.5	1057.6	1042.0	1027.6	1004.8
25°	1062.5	1062.5	1063.6	1064.8	1063.6	1062.5	1062.5	1049.2	1018.0	1014.3	1001.1
27.5°	1037.2	1039.6	1046.8	1045.6	1046.8	1039.6	1037.2	1032.3	998.7	995.1	985.5
30°	1014.3	1012.0	1006.0	1001.1	1006.0	1012.0	1014.3	1007.2	973.5	963.9	966.3
32.5°	975.9	969.9	963.9	960.3	963.9	969.9	975.9	973.5	948.3	935.0	937.5
35°	930.2	931.5	930.2	926.6	930.2	931.5	930.2	932.7	917.0	905.0	903.8
37.5°	897.8	900.2	899.0	894.2	899.0	900.2	897.8	895.4	873.7	870.2	872.5
40°	864.2	865.3	864.2	860.5	864.2	865.3	864.2	859.3	829.3	830.5	838.9
42.5°	831.7	830.5	826.9	824.5	826.9	830.5	831.7	824.5	786.0	782.4	798.0
45°	794.4	795.7	788.4	784.8	788.4	795.7	794.4	789.7	750.0	740.4	751.2
47.5°	757.2	757.2	751.2	747.5	751.2	757.2	757.2	751.2	709.1	699.5	705.5
50°	717.5	716.3	707.9	706.7	707.9	716.3	717.5	713.9	669.4	661.0	661.0
52.5°	671.9	671.9	673.0	675.4	673.0	671.9	671.9	673.0	633.4	624.9	622.6
55°	632.2	633.4	641.7	644.2	641.7	633.4	632.2	632.2	596.1	587.7	582.9
57.5°	591.3	591.3	597.4	597.4	597.4	591.3	591.3	588.9	554.1	546.9	544.4
60°	544.4	546.9	551.6	550.4	551.6	546.9	544.4	542.1	511.9	507.2	498.8
62.5°	495.1	497.6	498.8	496.4	498.8	497.6	495.1	487.9	469.9	466.3	455.5
65°	443.4	445.9	447.1	444.7	447.1	445.9	443.4	439.9	426.6	420.6	411.1
67.5°	390.6	389.4	388.2	393.0	388.2	389.4	390.6	385.8	377.4	372.6	359.3
70°	336.5	336.5	335.3	337.7	335.3	336.5	336.5	332.9	328.1	324.5	312.5
72.5°	278.8	277.6	282.4	278.8	282.4	277.6	278.8	277.6	275.3	271.6	259.6
75°	222.3	224.8	222.3	226.0	222.3	224.8	222.3	223.5	222.3	220.0	211.5
77.5°	169.5	171.8	169.5	169.5	169.5	171.8	169.5	170.6	170.6	170.6	163.5
80°	120.2	119.0	119.0	117.8	119.0	119.0	120.2	120.2	121.3	119.0	116.6
82.5°	77.0	75.7	75.7	78.1	75.7	75.7	77.0	78.1	75.7	75.7	75.7
85°	42.0	43.3	40.8	40.8	40.8	43.3	42.0	39.7	42.0	42.0	40.8
87.5°	15.6	14.5	14.5	14.5	14.5	14.5	15.6	16.8	16.8	16.8	18.0
90°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	28.7	38.3	43.1	37.1
92.5°	107.8	103.5	86.3	69.2	86.3	103.5	107.8	152.8	212.8	242.8	213.1
95°	365.9	352.9	301.0	249.1	301.0	352.9	365.9	480.6	633.4	709.8	599.5
97.5°	844.8	820.0	721.3	622.4	721.3	820.0	844.8	917.2	1013.8	1062.1	878.2
100°	1186.3	1156.9	1039.2	921.4	1039.2	1156.9	1186.3	1181.1	1174.0	1170.4	966.3
102.5°	1478.0	1452.8	1351.9	1251.0	1351.9	1452.8	1478.0	1385.7	1262.6	1201.1	994.1
105°	1818.4	1804.8	1750.6	1696.4	1750.6	1804.8	1818.4	1611.4	1335.5	1197.6	997.1
107.5°	1995.4	1998.7	2011.8	2024.9	2011.8	1998.7	1995.4	1706.8	1322.0	1129.6	952.8
110°	2040.8	2054.9	2111.4	2167.8	2111.4	2054.9	2040.8	1718.1	1288.0	1072.8	913.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2011.8	2033.5	2120.3	2207.0	2120.3	2033.5	2011.8	1681.6	1241.4	1021.2	879.2
115°	1913.7	1943.8	2064.1	2184.3	2064.1	1943.8	1913.7	1595.6	1171.4	959.4	839.8
117.5°	1778.1	1811.5	1944.8	2078.2	1944.8	1811.5	1778.1	1491.0	1108.2	916.8	815.1
120°	1686.7	1719.1	1848.7	1978.4	1848.7	1719.1	1686.7	1424.4	1074.6	899.8	806.8
122.5°	1595.4	1627.3	1755.2	1883.0	1755.2	1627.3	1595.4	1359.2	1044.3	886.8	802.5
125°	1474.5	1504.0	1621.7	1739.5	1621.7	1504.0	1474.5	1273.9	1006.3	872.6	798.8
127.5°	1377.6	1402.4	1501.7	1601.1	1501.7	1402.4	1377.6	1205.3	975.6	860.7	796.8
130°	1316.2	1339.2	1430.9	1522.7	1430.9	1339.2	1316.2	1162.9	958.4	856.2	798.0
132.5°	1264.0	1284.6	1366.7	1449.0	1366.7	1284.6	1264.0	1126.8	943.7	852.1	798.8
135°	1190.3	1208.0	1278.9	1349.7	1278.9	1208.0	1190.3	1075.3	922.0	845.3	798.0
137.5°	1135.9	1150.3	1208.4	1266.3	1208.4	1150.3	1135.9	1038.6	909.0	844.2	803.0
140°	1092.1	1105.7	1159.9	1214.1	1159.9	1105.7	1092.1	1008.2	896.2	840.2	803.8
142.5°	1061.5	1073.2	1119.9	1166.4	1119.9	1073.2	1061.5	987.8	889.4	840.2	806.7
145°	1015.5	1024.3	1059.7	1095.0	1059.7	1024.3	1015.5	955.2	874.8	834.6	806.8
147.5°	977.0	984.2	1013.5	1042.8	1013.5	984.2	977.0	929.5	866.2	834.6	812.3
150°	954.8	960.8	984.5	1008.2	984.5	960.8	954.8	914.7	861.3	834.6	815.1
152.5°	937.3	941.7	959.7	977.5	959.7	941.7	937.3	903.1	857.4	834.6	817.0
155°	916.3	919.3	931.1	942.9	931.1	919.3	916.3	889.1	852.8	834.6	821.2
157.5°	898.1	900.2	908.5	916.8	908.5	900.2	898.1	876.9	848.7	834.6	825.4
160°	889.0	890.2	895.0	899.8	895.0	890.2	889.0	870.9	846.7	834.6	827.3
162.5°	880.5	881.6	886.2	890.7	886.2	881.6	880.5	865.2	844.8	834.6	829.3
165°	867.4	868.6	873.4	878.3	873.4	868.6	867.4	856.5	841.9	834.6	832.2
167.5°	861.8	862.3	864.3	866.3	864.3	862.3	861.8	854.6	845.1	840.2	838.2
170°	861.8	861.8	861.8	861.8	861.8	861.8	861.8	854.6	845.1	840.2	840.1
172.5°	857.2	856.8	855.1	853.3	855.1	856.8	857.2	851.6	844.1	840.2	840.2
175°	851.1	851.1	851.1	851.1	851.1	851.1	851.1	847.4	842.6	840.2	841.3
177.5°	849.9	849.3	847.3	845.3	847.3	849.3	849.9	847.1	843.3	841.4	842.3
180°	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3	845.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1270.3	1270.3	1270.3	1270.3	1270.3
2.5°	1254.8	1260.8	1264.3	1269.1	1281.1
5°	1206.6	1229.5	1236.7	1254.8	1276.4
7.5°	1100.9	1170.6	1189.8	1233.1	1266.8
10°	998.7	1068.5	1102.1	1204.3	1254.8
12.5°	947.0	988.0	1010.8	1153.8	1237.9
15°	914.6	943.5	960.3	1086.5	1218.6
17.5°	889.4	909.8	921.8	1020.3	1192.3
20°	873.7	883.3	894.2	972.3	1162.2
22.5°	862.9	856.9	865.3	938.7	1121.3
25°	855.7	832.9	842.5	912.2	1073.3
27.5°	861.7	811.2	814.9	888.2	1022.8
30°	862.9	784.8	786.0	862.9	966.3
32.5°	854.5	757.2	758.4	831.7	902.5
35°	834.0	724.7	723.5	795.7	816.0
37.5°	806.4	689.9	689.9	756.0	721.1
40°	772.8	655.0	658.6	704.2	637.0
42.5°	731.9	617.7	622.6	635.7	574.5
45°	687.4	581.7	585.3	537.2	526.4
47.5°	638.2	544.4	545.6	445.9	510.8
50°	579.3	505.9	501.2	382.2	509.6
52.5°	527.6	463.9	449.5	346.1	462.7
55°	477.1	419.4	388.2	318.5	429.1
57.5°	432.6	361.8	331.7	286.1	421.9
60°	391.8	305.3	282.4	251.2	387.0
62.5°	358.1	263.2	258.4	227.1	350.9
65°	322.1	234.3	233.1	206.8	298.1
67.5°	287.3	215.1	213.9	187.5	227.1
70°	250.0	194.7	192.3	167.1	168.3
72.5°	211.5	171.8	169.5	150.3	139.4
75°	173.1	145.5	144.2	131.0	113.0
77.5°	135.8	115.3	117.8	105.8	83.0
80°	97.3	84.1	86.5	75.7	62.5
82.5°	64.9	55.3	57.7	48.0	42.0
85°	36.0	31.3	32.5	25.2	19.2
87.5°	16.8	14.5	14.5	9.6	6.0
90°	25.0	15.9	14.7	10.2	5.6
92.5°	153.9	109.5	99.9	61.2	22.6
95°	378.8	213.3	195.7	125.1	54.5
97.5°	510.2	234.3	218.8	156.5	94.1
100°	558.1	251.9	237.8	181.3	124.8
102.5°	580.1	269.5	256.3	203.7	150.9
105°	596.3	295.6	284.4	239.9	195.2
107.5°	599.4	334.2	323.8	282.2	240.6
110°	594.8	355.8	346.4	308.7	271.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	595.0	381.9	373.0	337.1	301.3
115°	600.5	421.0	412.7	379.7	346.7
117.5°	611.6	459.0	451.5	421.5	391.5
120°	620.6	481.1	474.0	445.8	417.5
122.5°	633.7	507.2	500.1	471.6	443.1
125°	651.3	540.7	534.2	508.2	482.3
127.5°	668.9	573.0	566.4	540.2	514.0
130°	681.8	594.5	587.4	559.2	531.0
132.5°	692.1	612.2	605.1	576.9	548.6
135°	703.5	632.6	626.1	600.5	574.7
137.5°	720.5	658.7	652.3	626.8	601.4
140°	731.0	676.3	670.5	647.0	623.6
142.5°	739.6	689.3	683.9	662.2	640.6
145°	751.0	709.2	704.4	685.6	666.7
147.5°	767.6	734.2	729.5	711.2	692.7
150°	776.3	747.2	743.0	726.4	709.8
152.5°	782.0	755.7	752.5	740.0	727.3
155°	794.5	774.5	772.1	762.8	753.5
157.5°	806.9	793.1	790.8	781.8	772.7
160°	812.7	801.7	799.9	792.8	785.7
162.5°	818.7	810.8	809.4	804.1	798.8
165°	827.4	823.8	822.6	817.8	813.0
167.5°	834.1	831.1	830.6	828.3	826.0
170°	839.9	839.7	839.1	836.9	834.6
172.5°	840.2	840.2	840.1	839.6	839.1
175°	843.6	845.3	845.3	845.3	845.3
177.5°	844.1	845.3	845.3	845.3	845.3
180°	845.3	845.3	845.3	845.3	845.3



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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	12.09	12.85	13.15	13.91	15.35	14.89	15.65	15.95	16.71	18.15
	3H	12.56	13.24	13.63	14.31	15.77	16.22	16.90	17.28	17.97	19.42
	4H	12.75	13.39	13.83	14.46	15.93	16.65	17.30	17.73	18.37	19.83
	6H	12.86	13.46	13.95	14.53	16.01	16.92	17.52	18.01	18.59	20.07
	8H	12.86	13.43	13.95	14.52	15.99	16.99	17.55	18.08	18.65	20.11
	12H	12.83	13.36	13.92	14.45	15.94	17.02	17.56	18.12	18.64	20.13
4H	2H	13.10	13.75	14.19	14.82	16.28	15.29	15.93	16.37	17.00	18.47
	3H	14.12	14.66	15.21	15.76	17.23	16.77	17.31	17.87	18.41	19.89
	4H	14.39	14.89	15.49	15.98	17.47	17.29	17.78	18.39	18.87	20.37
	6H	14.51	14.94	15.62	16.05	17.54	17.64	18.07	18.75	19.18	20.67
	8H	14.52	14.91	15.62	16.02	17.52	17.74	18.14	18.85	19.24	20.75
	12H	14.48	14.84	15.60	15.95	17.46	17.79	18.15	18.91	19.26	20.78
8H	4H	14.83	15.23	15.94	16.33	17.84	17.41	17.80	18.51	18.91	20.41
	6H	15.09	15.42	16.22	16.56	18.07	17.83	18.16	18.96	19.30	20.81
	8H	15.13	15.42	16.27	16.55	18.07	17.98	18.26	19.11	19.39	20.91
	12H	15.11	15.36	16.25	16.49	18.05	18.07	18.32	19.20	19.44	21.00
12H	4H	14.83	15.19	15.96	16.31	17.82	17.37	17.73	18.49	18.84	20.35
	6H	15.15	15.44	16.28	16.56	18.09	17.83	18.12	18.96	19.24	20.77
	8H	15.21	15.46	16.35	16.59	18.15	17.98	18.23	19.12	19.36	20.92