

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: P934645

Luminaire Tested: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

**Test Information**

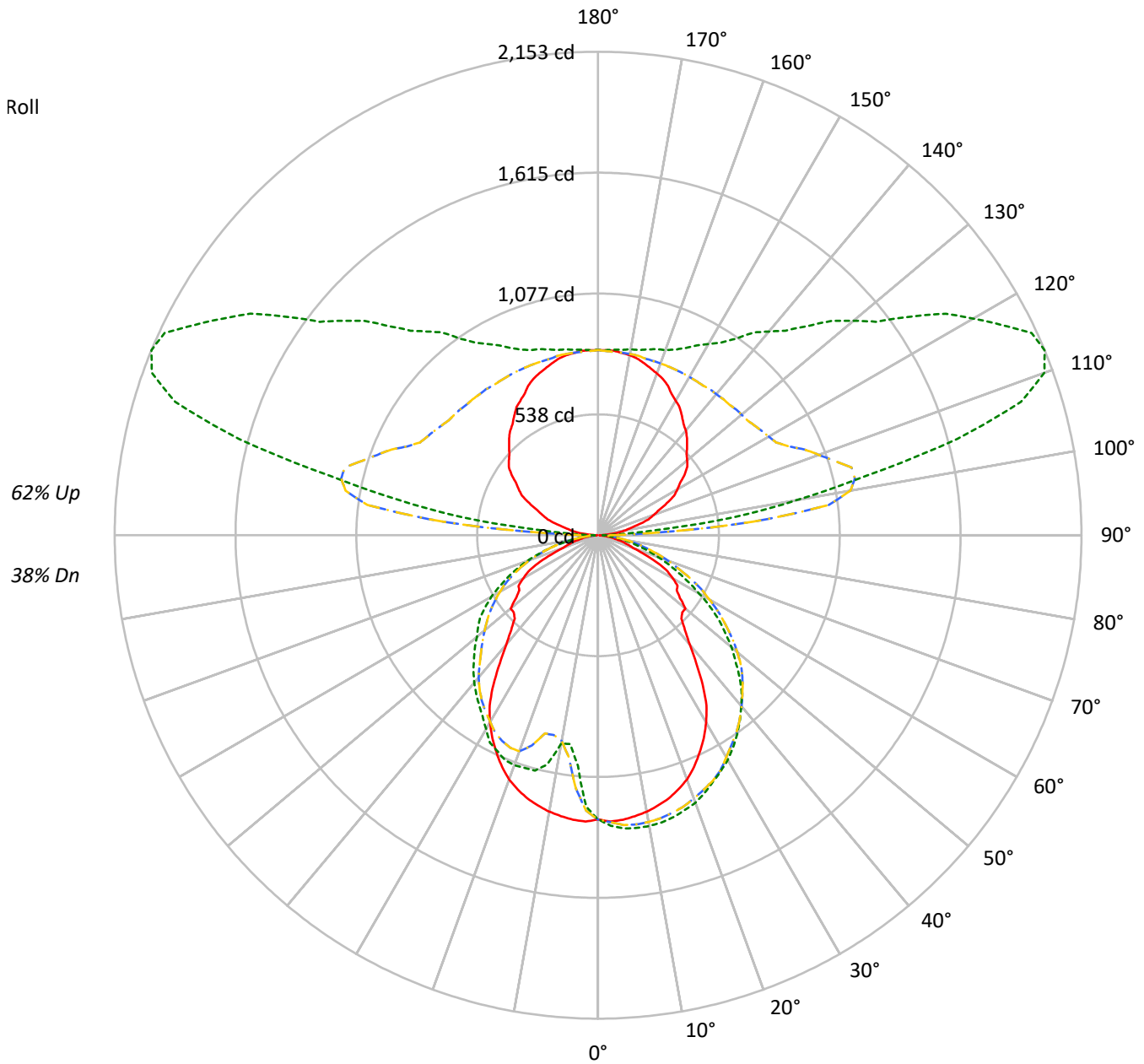
Test Method: LM-79-2019  
Report Number: P934645  
REPORT IS A COMBINATION OF REPORTS P933708 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8629.9 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 68.8  
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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### 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	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20
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	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	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	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5872	5872	5872	5872
5°	5915	5927	5915	4661
10°	5876	5839	5876	4174
15°	5812	5712	5812	4769
20°	5690	5562	5690	4779
25°	5442	5343	5442	4678
30°	5120	5162	5120	4456
35°	4564	4932	4564	4212
40°	3804	4662	3804	4027
45°	3398	4346	3398	3814
50°	3610	3969	3610	3601
55°	3397	3562	3397	3478
60°	3501	3026	3501	3185
65°	3174	2501	3174	2796
70°	2198	1994	2198	2343
75°	1929	1474	1929	1764
80°	1552	974	1552	1060
85°	894	516	894	438

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5208 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.2	1.3
10°-20°	324.3	3.8
20°-30°	501.4	5.8
30°-40°	598.5	6.9
40°-50°	602.0	7.0
50°-60°	523.8	6.1
60°-70°	371.4	4.3
70°-80°	196.5	2.3
80°-90°	52.1	0.6
90°-100°	402.0	4.7
100°-110°	1056.7	12.2
110°-120°	1095.7	12.7
120°-130°	878.9	10.2
130°-140°	689.6	8.0
140°-150°	529.3	6.1
150°-160°	381.2	4.4
160°-170°	233.2	2.7
170°-180°	78.8	0.9
0°-30°	940.0	10.9
0°-40°	1538.5	17.8
0°-60°	2664.4	30.9
0°-90°	3284.4	38.1
90°-120°	2554.4	29.6
90°-150°	4652.2	53.9
90°-180°	5345.0	61.9
0°-180°	8629.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1266	1266	1266	1266	1266	
5°	1272	1311	1272	1031	1272	121
15°	1214	1299	1214	1085	1214	342
25°	1069	1212	1069	1061	1069	491
35°	813	1081	813	923	813	503
45°	524	891	524	782	524	420
55°	427	657	427	642	427	393
65°	297	396	297	443	297	284
75°	113	188	113	225	113	118
85°	19	48	19	41	19	26
90°	6	21	6	21	6	5
95°	53	243	53	243	53	59
105°	190	1655	190	1655	190	202
115°	338	2131	338	2131	338	334
125°	470	1697	470	1697	470	418
135°	561	1316	561	1316	561	434
145°	650	1068	650	1068	650	407
155°	735	920	735	920	735	338
165°	793	857	793	857	793	224
175°	825	830	825	830	825	78
180°	825	825	825	825	825	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1276.3	1276.3	1283.5	1285.9	1285.9	1282.2	1278.7	1282.2	1293.0	1296.6	1295.5
5°	1271.5	1281.1	1294.3	1296.6	1299.0	1297.9	1295.5	1297.9	1309.8	1312.2	1313.4
7.5°	1261.9	1279.9	1296.6	1300.3	1303.9	1300.3	1299.0	1301.4	1313.4	1315.8	1315.8
10°	1249.9	1275.1	1294.3	1296.6	1300.3	1296.6	1296.6	1301.4	1313.4	1315.8	1317.0
12.5°	1233.2	1267.9	1285.9	1288.2	1293.0	1291.9	1290.6	1295.5	1307.4	1309.8	1309.8
15°	1214.1	1254.8	1271.5	1273.9	1282.2	1279.9	1279.9	1284.7	1297.9	1301.4	1300.3
17.5°	1187.7	1238.0	1257.2	1260.7	1266.7	1265.6	1266.7	1271.5	1283.5	1285.9	1287.1
20°	1157.7	1215.2	1238.0	1241.5	1247.5	1247.5	1247.5	1253.5	1265.6	1270.3	1270.3
22.5°	1117.0	1191.3	1215.2	1217.6	1224.9	1224.9	1227.2	1235.6	1246.4	1247.5	1247.5
25°	1069.2	1165.0	1185.3	1192.5	1199.7	1203.3	1206.8	1211.6	1215.2	1214.1	1215.2
27.5°	1018.9	1131.4	1157.7	1162.5	1172.1	1175.8	1180.5	1181.7	1182.9	1186.5	1184.1
30°	962.6	1084.7	1124.3	1129.1	1144.6	1147.0	1142.2	1144.6	1150.6	1153.0	1155.4
32.5°	899.1	1015.3	1089.5	1100.3	1114.7	1107.5	1106.3	1109.9	1119.4	1119.4	1121.8
35°	812.9	961.4	1057.2	1066.8	1077.6	1069.2	1074.0	1075.2	1081.1	1084.7	1083.6
37.5°	718.4	914.8	1023.7	1030.9	1039.3	1028.5	1035.6	1039.3	1044.0	1041.6	1041.6
40°	634.6	841.7	984.2	988.9	996.2	987.8	994.9	997.3	999.7	997.3	996.2
42.5°	572.3	761.5	942.2	948.2	943.4	949.5	951.8	956.6	953.1	948.2	948.2
45°	524.4	739.9	896.7	904.0	896.7	906.4	909.9	909.9	899.1	896.7	895.6
47.5°	508.9	696.8	851.3	851.3	847.6	859.7	865.7	857.3	846.5	842.9	842.9
50°	507.6	648.9	789.0	784.3	800.9	815.3	809.3	800.9	792.6	779.4	779.4
52.5°	460.9	590.3	708.8	726.8	753.1	761.5	751.9	743.6	729.2	723.1	718.4
55°	427.4	529.2	635.7	671.7	699.2	710.0	692.0	683.7	662.1	658.5	656.1
57.5°	420.2	440.6	568.7	614.2	647.7	646.5	635.7	620.2	602.3	598.7	597.4
60°	385.5	318.5	496.8	550.7	585.5	581.9	572.3	557.9	541.2	538.8	536.4
62.5°	349.6	231.1	415.4	476.5	525.6	524.4	516.0	494.5	482.5	476.5	471.7
65°	296.9	194.0	295.7	396.3	466.9	469.3	451.4	435.8	422.7	415.4	414.3
67.5°	226.3	158.1	199.9	330.4	410.7	408.3	385.5	378.4	361.6	358.0	350.8
70°	167.6	105.3	138.9	268.2	355.6	349.6	331.6	323.3	307.7	299.3	294.6
72.5°	138.9	85.0	101.8	208.3	299.3	292.2	276.5	267.0	253.9	246.6	241.8
75°	112.6	89.8	77.8	154.4	243.1	238.2	223.9	214.3	203.5	194.0	195.1
77.5°	82.7	83.8	62.2	113.7	192.8	185.6	177.2	165.2	160.4	150.9	150.9
80°	62.2	65.9	46.7	77.8	138.9	138.9	131.7	123.4	115.0	110.1	110.1
82.5°	41.9	41.9	34.7	49.1	94.6	91.0	86.2	83.8	79.0	76.6	76.6
85°	19.2	23.9	21.5	29.9	51.5	53.9	53.9	51.5	50.3	47.9	49.1
87.5°	6.0	10.8	13.2	16.8	26.3	27.6	28.7	28.7	28.7	29.9	29.9
90°	5.5	10.0	14.5	15.5	24.4	36.2	42.0	37.4	28.0	21.1	21.1
92.5°	22.1	59.8	97.5	106.8	150.2	208.0	236.9	207.6	149.1	105.2	101.0
95°	53.1	122.0	190.8	208.1	369.5	584.7	692.3	617.8	468.7	357.0	344.3
97.5°	91.9	152.6	213.4	228.6	497.7	856.6	1036.0	988.8	894.7	824.1	800.0
100°	121.8	176.8	232.0	245.7	544.4	942.6	1141.7	1145.1	1152.0	1157.2	1128.5
102.5°	147.2	198.6	250.0	262.9	565.7	969.7	1171.6	1231.5	1351.6	1441.7	1417.0
105°	190.4	234.0	277.4	288.3	581.6	972.7	1168.3	1302.8	1571.8	1773.6	1760.4
107.5°	234.7	275.3	315.8	326.0	584.6	929.4	1101.9	1289.5	1664.8	1946.4	1949.6
110°	264.6	301.2	337.8	347.0	580.1	891.0	1046.5	1256.3	1675.9	1990.6	2004.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	293.9	328.8	363.7	372.4	580.3	857.5	996.2	1210.9	1640.4	1962.4	1983.6
115°	338.1	370.3	402.6	410.6	585.6	819.1	935.8	1142.6	1556.4	1866.6	1896.0
117.5°	381.9	411.1	440.4	447.7	596.6	795.1	894.3	1081.0	1454.3	1734.4	1766.9
120°	407.3	434.8	462.4	469.3	605.4	786.9	877.7	1048.3	1389.5	1645.3	1676.9
122.5°	432.2	460.1	487.8	494.8	618.1	782.6	864.9	1018.6	1325.8	1556.2	1587.3
125°	470.4	495.8	521.0	527.4	635.3	779.2	851.1	981.6	1242.5	1438.3	1467.0
127.5°	501.4	527.0	552.5	559.0	652.5	777.2	839.5	951.5	1175.6	1343.7	1367.9
130°	518.0	545.5	573.1	579.9	665.0	778.5	835.1	934.8	1134.3	1283.9	1306.3
132.5°	535.1	562.7	590.3	597.2	675.2	779.2	831.2	920.5	1099.1	1233.0	1253.1
135°	560.6	585.6	610.8	617.1	686.2	778.5	824.6	899.4	1048.9	1161.0	1178.3
137.5°	586.6	611.4	636.3	642.5	702.8	783.3	823.4	886.6	1013.1	1107.9	1122.0
140°	608.2	631.1	653.9	659.6	712.9	784.1	819.6	874.2	983.4	1065.3	1078.6
142.5°	624.8	646.0	667.1	672.4	721.5	786.9	819.6	867.5	963.5	1035.4	1046.8
145°	650.3	668.8	687.1	691.8	732.6	786.9	814.1	853.3	931.8	990.6	999.2
147.5°	675.7	693.7	711.7	716.1	748.8	792.3	814.1	845.0	906.6	953.0	960.1
150°	692.3	708.6	724.8	728.8	757.2	795.1	814.1	840.1	892.3	931.4	937.2
152.5°	709.5	721.8	734.1	737.1	762.7	796.9	814.1	836.3	880.8	914.2	918.6
155°	734.9	744.0	753.1	755.4	775.0	801.0	814.1	831.7	867.2	893.8	896.6
157.5°	753.7	762.6	771.4	773.6	787.1	805.1	814.1	827.8	855.4	876.0	878.1
160°	766.5	773.4	780.2	781.9	792.6	806.9	814.1	825.9	849.5	867.2	868.3
162.5°	779.2	784.3	789.5	790.9	798.6	808.9	814.1	824.1	844.0	858.9	860.0
165°	793.0	797.6	802.4	803.5	807.0	811.7	814.1	821.2	835.5	846.2	847.4
167.5°	805.8	808.0	810.2	810.8	813.7	817.6	819.6	824.2	833.6	840.7	841.1
170°	814.1	816.3	818.5	819.1	819.2	819.5	819.6	824.2	833.6	840.7	840.7
172.5°	818.5	819.0	819.5	819.6	819.6	819.6	819.6	823.3	830.7	836.2	835.8
175°	824.6	824.6	824.6	824.6	822.9	820.7	819.6	821.9	826.7	830.1	830.1
177.5°	824.6	824.6	824.6	824.6	823.3	821.6	820.7	822.5	826.2	829.0	828.5
180°	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1297.9	1294.3	1297.9	1295.5	1296.6	1293.0	1282.2	1278.7	1282.2	1285.9	1285.9
5°	1313.4	1311.0	1313.4	1313.4	1312.2	1309.8	1297.9	1295.5	1297.9	1299.0	1296.6
7.5°	1318.2	1314.7	1318.2	1315.8	1315.8	1313.4	1301.4	1299.0	1300.3	1303.9	1300.3
10°	1318.2	1314.7	1318.2	1317.0	1315.8	1313.4	1301.4	1296.6	1296.6	1300.3	1296.6
12.5°	1312.2	1309.8	1312.2	1309.8	1309.8	1307.4	1295.5	1290.6	1291.9	1293.0	1288.2
15°	1302.6	1299.0	1302.6	1300.3	1301.4	1297.9	1284.7	1279.9	1279.9	1282.2	1273.9
17.5°	1288.2	1283.5	1288.2	1287.1	1285.9	1283.5	1271.5	1266.7	1265.6	1266.7	1260.7
20°	1271.5	1267.9	1271.5	1270.3	1270.3	1265.6	1253.5	1247.5	1247.5	1247.5	1241.5
22.5°	1245.2	1241.5	1245.2	1247.5	1247.5	1246.4	1235.6	1227.2	1224.9	1224.9	1217.6
25°	1215.2	1211.6	1215.2	1215.2	1214.1	1215.2	1211.6	1206.8	1203.3	1199.7	1192.5
27.5°	1186.5	1184.1	1186.5	1184.1	1186.5	1182.9	1181.7	1180.5	1175.8	1172.1	1162.5
30°	1157.7	1155.4	1157.7	1155.4	1153.0	1150.6	1144.6	1142.2	1147.0	1144.6	1129.1
32.5°	1121.8	1119.4	1121.8	1121.8	1119.4	1119.4	1109.9	1106.3	1107.5	1114.7	1100.3
35°	1084.7	1081.1	1084.7	1083.6	1084.7	1081.1	1075.2	1074.0	1069.2	1077.6	1066.8
37.5°	1041.6	1038.0	1041.6	1041.6	1041.6	1044.0	1039.3	1035.6	1028.5	1039.3	1030.9
40°	997.3	992.5	997.3	996.2	997.3	999.7	997.3	994.9	987.8	996.2	988.9
42.5°	947.1	945.8	947.1	948.2	948.2	953.1	956.6	951.8	949.5	943.4	948.2
45°	893.2	890.7	893.2	895.6	896.7	899.1	909.9	909.9	906.4	896.7	904.0
47.5°	835.7	829.7	835.7	842.9	842.9	846.5	857.3	865.7	859.7	847.6	851.3
50°	774.6	775.9	774.6	779.4	779.4	792.6	800.9	809.3	815.3	800.9	784.3
52.5°	714.8	713.6	714.8	718.4	723.1	729.2	743.6	751.9	761.5	753.1	726.8
55°	654.9	657.3	654.9	656.1	658.5	662.1	683.7	692.0	710.0	699.2	671.7
57.5°	595.0	591.5	595.0	597.4	598.7	602.3	620.2	635.7	646.5	647.7	614.2
60°	525.6	520.8	525.6	536.4	538.8	541.2	557.9	572.3	581.9	585.5	550.7
62.5°	464.5	456.1	464.5	471.7	476.5	482.5	494.5	516.0	524.4	525.6	476.5
65°	399.9	396.3	399.9	414.3	415.4	422.7	435.8	451.4	469.3	466.9	396.3
67.5°	341.2	341.2	341.2	350.8	358.0	361.6	378.4	385.5	408.3	410.7	330.4
70°	287.3	286.2	287.3	294.6	299.3	307.7	323.3	331.6	349.6	355.6	268.2
72.5°	235.8	234.7	235.8	241.8	246.6	253.9	267.0	276.5	292.2	299.3	208.3
75°	190.4	188.0	190.4	195.1	194.0	203.5	214.3	223.9	238.2	243.1	154.4
77.5°	146.0	146.0	146.0	150.9	150.9	160.4	165.2	177.2	185.6	192.8	113.7
80°	109.0	107.7	109.0	110.1	110.1	115.0	123.4	131.7	138.9	138.9	77.8
82.5°	76.6	74.3	76.6	76.6	76.6	79.0	83.8	86.2	91.0	94.6	49.1
85°	47.9	47.9	47.9	49.1	47.9	50.3	51.5	53.9	53.9	51.5	29.9
87.5°	31.2	29.9	31.2	29.9	29.9	28.7	28.7	28.7	27.6	26.3	16.8
90°	21.1	21.1	21.1	21.1	21.1	28.0	37.4	42.0	36.2	24.4	15.5
92.5°	84.3	67.5	84.3	101.0	105.2	149.1	207.6	236.9	208.0	150.2	106.8
95°	293.7	243.0	293.7	344.3	357.0	468.7	617.8	692.3	584.7	369.5	208.1
97.5°	703.5	607.1	703.5	800.0	824.1	894.7	988.8	1036.0	856.6	497.7	228.6
100°	1013.7	898.8	1013.7	1128.5	1157.2	1152.0	1145.1	1141.7	942.6	544.4	245.7
102.5°	1318.7	1220.3	1318.7	1417.0	1441.7	1351.6	1231.5	1171.6	969.7	565.7	262.9
105°	1707.5	1654.6	1707.5	1760.4	1773.6	1571.8	1302.8	1168.3	972.7	581.6	288.3
107.5°	1962.3	1975.1	1962.3	1949.6	1946.4	1664.8	1289.5	1101.9	929.4	584.6	326.0
110°	2059.5	2114.6	2059.5	2004.4	1990.6	1675.9	1256.3	1046.5	891.0	580.1	347.0





TEST NUMBER: P934645

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2068.1	2152.7	2068.1	1983.6	1962.4	1640.4	1210.9	996.2	857.5	580.3	372.4
115°	2013.3	2130.6	2013.3	1896.0	1866.6	1556.4	1142.6	935.8	819.1	585.6	410.6
117.5°	1897.0	2027.1	1897.0	1766.9	1734.4	1454.3	1081.0	894.3	795.1	596.6	447.7
120°	1803.4	1929.8	1803.4	1676.9	1645.3	1389.5	1048.3	877.7	786.9	605.4	469.3
122.5°	1712.0	1836.7	1712.0	1587.3	1556.2	1325.8	1018.6	864.9	782.6	618.1	494.8
125°	1581.9	1696.8	1581.9	1467.0	1438.3	1242.5	981.6	851.1	779.2	635.3	527.4
127.5°	1464.8	1561.7	1464.8	1367.9	1343.7	1175.6	951.5	839.5	777.2	652.5	559.0
130°	1395.8	1485.3	1395.8	1306.3	1283.9	1134.3	934.8	835.1	778.5	665.0	579.9
132.5°	1333.2	1413.4	1333.2	1253.1	1233.0	1099.1	920.5	831.2	779.2	675.2	597.2
135°	1247.4	1316.5	1247.4	1178.3	1161.0	1048.9	899.4	824.6	778.5	686.2	617.1
137.5°	1178.6	1235.2	1178.6	1122.0	1107.9	1013.1	886.6	823.4	783.3	702.8	642.5
140°	1131.5	1184.3	1131.5	1078.6	1065.3	983.4	874.2	819.6	784.1	712.9	659.6
142.5°	1092.3	1137.8	1092.3	1046.8	1035.4	963.5	867.5	819.6	786.9	721.5	672.4
145°	1033.7	1068.1	1033.7	999.2	990.6	931.8	853.3	814.1	786.9	732.6	691.8
147.5°	988.6	1017.1	988.6	960.1	953.0	906.6	845.0	814.1	792.3	748.8	716.1
150°	960.3	983.4	960.3	937.2	931.4	892.3	840.1	814.1	795.1	757.2	728.8
152.5°	936.0	953.5	936.0	918.6	914.2	880.8	836.3	814.1	796.9	762.7	737.1
155°	908.2	919.8	908.2	896.6	893.8	867.2	831.7	814.1	801.0	775.0	755.4
157.5°	886.2	894.3	886.2	878.1	876.0	855.4	827.8	814.1	805.1	787.1	773.6
160°	873.1	877.7	873.1	868.3	867.2	849.5	825.9	814.1	806.9	792.6	781.9
162.5°	864.4	868.9	864.4	860.0	858.9	844.0	824.1	814.1	808.9	798.6	790.9
165°	852.0	856.6	852.0	847.4	846.2	835.5	821.2	814.1	811.7	807.0	803.5
167.5°	843.1	845.0	843.1	841.1	840.7	833.6	824.2	819.6	817.6	813.7	810.8
170°	840.7	840.7	840.7	840.7	840.7	833.6	824.2	819.6	819.5	819.2	819.1
172.5°	834.1	832.4	834.1	835.8	836.2	830.7	823.3	819.6	819.6	819.6	819.6
175°	830.1	830.1	830.1	830.1	830.1	826.7	821.9	819.6	820.7	822.9	824.6
177.5°	826.6	824.6	826.6	828.5	829.0	826.2	822.5	820.7	821.6	823.3	824.6
180°	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6



TEST NUMBER: P934645

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1283.5	1276.3	1276.3	1264.3	1259.6	1255.9	1249.9	1232.0	1227.2	1222.4	1229.6
5°	1294.3	1281.1	1271.5	1249.9	1232.0	1224.9	1202.1	1159.0	1130.2	1108.6	1096.7
7.5°	1296.6	1279.9	1261.9	1228.4	1185.3	1166.1	1096.7	1017.7	996.2	977.0	965.0
10°	1294.3	1275.1	1249.9	1199.7	1097.9	1064.4	994.9	943.4	930.3	926.7	930.3
12.5°	1285.9	1267.9	1233.2	1149.4	1006.9	984.2	943.4	913.5	911.1	917.1	949.5
15°	1271.5	1254.8	1214.1	1082.3	956.6	939.8	911.1	900.4	913.5	955.5	1052.4
17.5°	1257.2	1238.0	1187.7	1016.5	918.3	906.4	886.0	907.5	981.8	1038.0	1070.3
20°	1238.0	1215.2	1157.7	968.6	890.7	880.0	870.4	967.4	1023.7	1044.0	1062.0
22.5°	1215.2	1191.3	1117.0	935.1	862.0	853.7	859.7	1000.9	1023.7	1038.0	1053.6
25°	1185.3	1165.0	1069.2	908.8	839.3	829.7	852.5	997.3	1010.5	1014.1	1045.3
27.5°	1157.7	1131.4	1018.9	884.8	811.7	808.2	858.4	981.8	991.3	994.9	1028.5
30°	1124.3	1084.7	962.6	859.7	783.0	781.8	859.7	962.6	960.2	969.8	1003.3
32.5°	1089.5	1015.3	899.1	828.5	755.5	754.3	851.3	933.9	931.4	944.7	969.8
35°	1057.2	961.4	812.9	792.6	720.8	722.0	830.9	900.4	901.5	913.5	929.1
37.5°	1023.7	914.8	718.4	753.1	687.2	687.2	803.4	869.2	866.8	870.4	892.0
40°	984.2	841.7	634.6	701.6	656.1	652.5	769.9	835.7	827.3	826.1	856.0
42.5°	942.2	761.5	572.3	633.4	620.2	615.4	729.2	795.0	779.4	783.0	821.3
45°	896.7	739.9	524.4	535.2	583.1	579.5	684.8	748.3	737.5	747.1	786.6
47.5°	851.3	696.8	508.9	444.2	543.6	542.4	635.7	702.8	696.8	706.4	748.3
50°	789.0	648.9	507.6	380.7	499.2	504.1	577.1	658.5	658.5	666.9	711.2
52.5°	708.8	590.3	460.9	344.8	447.7	462.1	525.6	620.2	622.6	631.0	670.4
55°	635.7	529.2	427.4	317.2	386.7	417.8	475.3	580.6	585.5	593.9	629.7
57.5°	568.7	440.6	420.2	284.9	330.4	360.4	431.0	542.4	544.8	551.9	586.6
60°	496.8	318.5	385.5	250.2	281.4	304.1	390.3	496.8	505.2	510.0	539.9
62.5°	415.4	231.1	349.6	226.3	257.4	262.2	356.8	453.8	464.5	468.2	486.1
65°	295.7	194.0	296.9	205.9	232.3	233.5	320.9	409.4	419.1	425.1	438.2
67.5°	199.9	158.1	226.3	186.7	213.2	214.3	286.2	358.0	371.2	376.0	384.4
70°	138.9	105.3	167.6	166.4	191.6	194.0	249.0	311.3	323.3	326.9	331.6
72.5°	101.8	85.0	138.9	149.7	168.8	171.2	210.7	258.6	270.6	274.2	276.5
75°	77.8	89.8	112.6	130.5	143.7	144.9	172.4	210.7	219.1	221.5	222.7
77.5°	62.2	83.8	82.7	105.3	117.3	115.0	135.3	162.8	170.0	170.0	170.0
80°	46.7	65.9	62.2	75.4	86.2	83.8	96.9	116.1	118.5	121.0	119.7
82.5°	34.7	41.9	41.9	47.9	57.5	55.1	64.6	75.4	75.4	75.4	77.8
85°	21.5	23.9	19.2	25.2	32.3	31.2	35.9	40.7	41.9	41.9	39.5
87.5°	13.2	10.8	6.0	9.6	14.4	14.4	16.8	17.9	16.8	16.8	16.8
90°	14.5	10.0	5.5	10.0	14.5	15.5	24.4	36.2	42.0	37.4	28.0
92.5°	97.5	59.8	22.1	59.8	97.5	106.8	150.2	208.0	236.9	207.6	149.1
95°	190.8	122.0	53.1	122.0	190.8	208.1	369.5	584.7	692.3	617.8	468.7
97.5°	213.4	152.6	91.9	152.6	213.4	228.6	497.7	856.6	1036.0	988.8	894.7
100°	232.0	176.8	121.8	176.8	232.0	245.7	544.4	942.6	1141.7	1145.1	1152.0
102.5°	250.0	198.6	147.2	198.6	250.0	262.9	565.7	969.7	1171.6	1231.5	1351.6
105°	277.4	234.0	190.4	234.0	277.4	288.3	581.6	972.7	1168.3	1302.8	1571.8
107.5°	315.8	275.3	234.7	275.3	315.8	326.0	584.6	929.4	1101.9	1289.5	1664.8
110°	337.8	301.2	264.6	301.2	337.8	347.0	580.1	891.0	1046.5	1256.3	1675.9



TEST NUMBER: P934645

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	363.7	328.8	293.9	328.8	363.7	372.4	580.3	857.5	996.2	1210.9	1640.4
115°	402.6	370.3	338.1	370.3	402.6	410.6	585.6	819.1	935.8	1142.6	1556.4
117.5°	440.4	411.1	381.9	411.1	440.4	447.7	596.6	795.1	894.3	1081.0	1454.3
120°	462.4	434.8	407.3	434.8	462.4	469.3	605.4	786.9	877.7	1048.3	1389.5
122.5°	487.8	460.1	432.2	460.1	487.8	494.8	618.1	782.6	864.9	1018.6	1325.8
125°	521.0	495.8	470.4	495.8	521.0	527.4	635.3	779.2	851.1	981.6	1242.5
127.5°	552.5	527.0	501.4	527.0	552.5	559.0	652.5	777.2	839.5	951.5	1175.6
130°	573.1	545.5	518.0	545.5	573.1	579.9	665.0	778.5	835.1	934.8	1134.3
132.5°	590.3	562.7	535.1	562.7	590.3	597.2	675.2	779.2	831.2	920.5	1099.1
135°	610.8	585.6	560.6	585.6	610.8	617.1	686.2	778.5	824.6	899.4	1048.9
137.5°	636.3	611.4	586.6	611.4	636.3	642.5	702.8	783.3	823.4	886.6	1013.1
140°	653.9	631.1	608.2	631.1	653.9	659.6	712.9	784.1	819.6	874.2	983.4
142.5°	667.1	646.0	624.8	646.0	667.1	672.4	721.5	786.9	819.6	867.5	963.5
145°	687.1	668.8	650.3	668.8	687.1	691.8	732.6	786.9	814.1	853.3	931.8
147.5°	711.7	693.7	675.7	693.7	711.7	716.1	748.8	792.3	814.1	845.0	906.6
150°	724.8	708.6	692.3	708.6	724.8	728.8	757.2	795.1	814.1	840.1	892.3
152.5°	734.1	721.8	709.5	721.8	734.1	737.1	762.7	796.9	814.1	836.3	880.8
155°	753.1	744.0	734.9	744.0	753.1	755.4	775.0	801.0	814.1	831.7	867.2
157.5°	771.4	762.6	753.7	762.6	771.4	773.6	787.1	805.1	814.1	827.8	855.4
160°	780.2	773.4	766.5	773.4	780.2	781.9	792.6	806.9	814.1	825.9	849.5
162.5°	789.5	784.3	779.2	784.3	789.5	790.9	798.6	808.9	814.1	824.1	844.0
165°	802.4	797.6	793.0	797.6	802.4	803.5	807.0	811.7	814.1	821.2	835.5
167.5°	810.2	808.0	805.8	808.0	810.2	810.8	813.7	817.6	819.6	824.2	833.6
170°	818.5	816.3	814.1	816.3	818.5	819.1	819.2	819.5	819.6	824.2	833.6
172.5°	819.5	819.0	818.5	819.0	819.5	819.6	819.6	819.6	819.6	823.3	830.7
175°	824.6	824.6	824.6	824.6	824.6	824.6	822.9	820.7	819.6	821.9	826.7
177.5°	824.6	824.6	824.6	824.6	824.6	824.6	823.3	821.6	820.7	822.5	826.2
180°	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6



TEST NUMBER: P934645

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1221.2	1217.6	1222.4	1209.2	1222.4	1217.6	1221.2	1229.6	1222.4	1227.2	1232.0
5°	1071.6	1065.6	1046.4	1030.9	1046.4	1065.6	1071.6	1096.7	1108.6	1130.2	1159.0
7.5°	957.8	953.1	948.2	938.7	948.2	953.1	957.8	965.0	977.0	996.2	1017.7
10°	932.7	933.9	941.1	939.8	941.1	933.9	932.7	930.3	926.7	930.3	943.4
12.5°	997.3	1008.1	1047.6	1045.3	1047.6	1008.1	997.3	949.5	917.1	911.1	913.5
15°	1071.6	1075.2	1083.6	1084.7	1083.6	1075.2	1071.6	1052.4	955.5	913.5	900.4
17.5°	1078.7	1080.0	1086.0	1086.0	1086.0	1080.0	1078.7	1070.3	1038.0	981.8	907.5
20°	1072.8	1075.2	1087.1	1089.5	1087.1	1075.2	1072.8	1062.0	1044.0	1023.7	967.4
22.5°	1070.3	1075.2	1084.7	1083.6	1084.7	1075.2	1070.3	1053.6	1038.0	1023.7	1000.9
25°	1058.4	1058.4	1059.6	1060.8	1059.6	1058.4	1058.4	1045.3	1014.1	1010.5	997.3
27.5°	1033.2	1035.6	1042.8	1041.6	1042.8	1035.6	1033.2	1028.5	994.9	991.3	981.8
30°	1010.5	1008.1	1002.1	997.3	1002.1	1008.1	1010.5	1003.3	969.8	960.2	962.6
32.5°	972.2	966.2	960.2	956.6	960.2	966.2	972.2	969.8	944.7	931.4	933.9
35°	926.7	927.9	926.7	923.1	926.7	927.9	926.7	929.1	913.5	901.5	900.4
37.5°	894.4	896.7	895.6	890.7	895.6	896.7	894.4	892.0	870.4	866.8	869.2
40°	860.8	862.0	860.8	857.3	860.8	862.0	860.8	856.0	826.1	827.3	835.7
42.5°	828.5	827.3	823.7	821.3	823.7	827.3	828.5	821.3	783.0	779.4	795.0
45°	791.4	792.6	785.4	781.8	785.4	792.6	791.4	786.6	747.1	737.5	748.3
47.5°	754.3	754.3	748.3	744.7	748.3	754.3	754.3	748.3	706.4	696.8	702.8
50°	714.8	713.6	705.2	704.0	705.2	713.6	714.8	711.2	666.9	658.5	658.5
52.5°	669.3	669.3	670.4	672.9	670.4	669.3	669.3	670.4	631.0	622.6	620.2
55°	629.7	631.0	639.4	641.7	639.4	631.0	629.7	629.7	593.9	585.5	580.6
57.5°	589.0	589.0	595.0	595.0	595.0	589.0	589.0	586.6	551.9	544.8	542.4
60°	542.4	544.8	549.6	548.3	549.6	544.8	542.4	539.9	510.0	505.2	496.8
62.5°	493.3	495.7	496.8	494.5	496.8	495.7	493.3	486.1	468.2	464.5	453.8
65°	441.8	444.2	445.4	443.0	445.4	444.2	441.8	438.2	425.1	419.1	409.4
67.5°	389.1	387.9	386.7	391.5	386.7	387.9	389.1	384.4	376.0	371.2	358.0
70°	335.3	335.3	334.0	336.4	334.0	335.3	335.3	331.6	326.9	323.3	311.3
72.5°	277.8	276.5	281.4	277.8	281.4	276.5	277.8	276.5	274.2	270.6	258.6
75°	221.5	223.9	221.5	225.1	221.5	223.9	221.5	222.7	221.5	219.1	210.7
77.5°	168.8	171.2	168.8	168.8	168.8	171.2	168.8	170.0	170.0	170.0	162.8
80°	119.7	118.5	118.5	117.3	118.5	118.5	119.7	119.7	121.0	118.5	116.1
82.5°	76.6	75.4	75.4	77.8	75.4	75.4	76.6	77.8	75.4	75.4	75.4
85°	41.9	43.1	40.7	40.7	40.7	43.1	41.9	39.5	41.9	41.9	40.7
87.5°	15.5	14.4	14.4	14.4	14.4	14.4	15.5	16.8	16.8	16.8	17.9
90°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	28.0	37.4	42.0	36.2
92.5°	105.2	101.0	84.3	67.5	84.3	101.0	105.2	149.1	207.6	236.9	208.0
95°	357.0	344.3	293.7	243.0	293.7	344.3	357.0	468.7	617.8	692.3	584.7
97.5°	824.1	800.0	703.5	607.1	703.5	800.0	824.1	894.7	988.8	1036.0	856.6
100°	1157.2	1128.5	1013.7	898.8	1013.7	1128.5	1157.2	1152.0	1145.1	1141.7	942.6
102.5°	1441.7	1417.0	1318.7	1220.3	1318.7	1417.0	1441.7	1351.6	1231.5	1171.6	969.7
105°	1773.6	1760.4	1707.5	1654.6	1707.5	1760.4	1773.6	1571.8	1302.8	1168.3	972.7
107.5°	1946.4	1949.6	1962.3	1975.1	1962.3	1949.6	1946.4	1664.8	1289.5	1101.9	929.4
110°	1990.6	2004.4	2059.5	2114.6	2059.5	2004.4	1990.6	1675.9	1256.3	1046.5	891.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1962.4	1983.6	2068.1	2152.7	2068.1	1983.6	1962.4	1640.4	1210.9	996.2	857.5
115°	1866.6	1896.0	2013.3	2130.6	2013.3	1896.0	1866.6	1556.4	1142.6	935.8	819.1
117.5°	1734.4	1766.9	1897.0	2027.1	1897.0	1766.9	1734.4	1454.3	1081.0	894.3	795.1
120°	1645.3	1676.9	1803.4	1929.8	1803.4	1676.9	1645.3	1389.5	1048.3	877.7	786.9
122.5°	1556.2	1587.3	1712.0	1836.7	1712.0	1587.3	1556.2	1325.8	1018.6	864.9	782.6
125°	1438.3	1467.0	1581.9	1696.8	1581.9	1467.0	1438.3	1242.5	981.6	851.1	779.2
127.5°	1343.7	1367.9	1464.8	1561.7	1464.8	1367.9	1343.7	1175.6	951.5	839.5	777.2
130°	1283.9	1306.3	1395.8	1485.3	1395.8	1306.3	1283.9	1134.3	934.8	835.1	778.5
132.5°	1233.0	1253.1	1333.2	1413.4	1333.2	1253.1	1233.0	1099.1	920.5	831.2	779.2
135°	1161.0	1178.3	1247.4	1316.5	1247.4	1178.3	1161.0	1048.9	899.4	824.6	778.5
137.5°	1107.9	1122.0	1178.6	1235.2	1178.6	1122.0	1107.9	1013.1	886.6	823.4	783.3
140°	1065.3	1078.6	1131.5	1184.3	1131.5	1078.6	1065.3	983.4	874.2	819.6	784.1
142.5°	1035.4	1046.8	1092.3	1137.8	1092.3	1046.8	1035.4	963.5	867.5	819.6	786.9
145°	990.6	999.2	1033.7	1068.1	1033.7	999.2	990.6	931.8	853.3	814.1	786.9
147.5°	953.0	960.1	988.6	1017.1	988.6	960.1	953.0	906.6	845.0	814.1	792.3
150°	931.4	937.2	960.3	983.4	960.3	937.2	931.4	892.3	840.1	814.1	795.1
152.5°	914.2	918.6	936.0	953.5	936.0	918.6	914.2	880.8	836.3	814.1	796.9
155°	893.8	896.6	908.2	919.8	908.2	896.6	893.8	867.2	831.7	814.1	801.0
157.5°	876.0	878.1	886.2	894.3	886.2	878.1	876.0	855.4	827.8	814.1	805.1
160°	867.2	868.3	873.1	877.7	873.1	868.3	867.2	849.5	825.9	814.1	806.9
162.5°	858.9	860.0	864.4	868.9	864.4	860.0	858.9	844.0	824.1	814.1	808.9
165°	846.2	847.4	852.0	856.6	852.0	847.4	846.2	835.5	821.2	814.1	811.7
167.5°	840.7	841.1	843.1	845.0	843.1	841.1	840.7	833.6	824.2	819.6	817.6
170°	840.7	840.7	840.7	840.7	840.7	840.7	840.7	833.6	824.2	819.6	819.5
172.5°	836.2	835.8	834.1	832.4	834.1	835.8	836.2	830.7	823.3	819.6	819.6
175°	830.1	830.1	830.1	830.1	830.1	830.1	830.1	826.7	821.9	819.6	820.7
177.5°	829.0	828.5	826.6	824.6	826.6	828.5	829.0	826.2	822.5	820.7	821.6
180°	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1249.9	1255.9	1259.6	1264.3	1276.3
5°	1202.1	1224.9	1232.0	1249.9	1271.5
7.5°	1096.7	1166.1	1185.3	1228.4	1261.9
10°	994.9	1064.4	1097.9	1199.7	1249.9
12.5°	943.4	984.2	1006.9	1149.4	1233.2
15°	911.1	939.8	956.6	1082.3	1214.1
17.5°	886.0	906.4	918.3	1016.5	1187.7
20°	870.4	880.0	890.7	968.6	1157.7
22.5°	859.7	853.7	862.0	935.1	1117.0
25°	852.5	829.7	839.3	908.8	1069.2
27.5°	858.4	808.2	811.7	884.8	1018.9
30°	859.7	781.8	783.0	859.7	962.6
32.5°	851.3	754.3	755.5	828.5	899.1
35°	830.9	722.0	720.8	792.6	812.9
37.5°	803.4	687.2	687.2	753.1	718.4
40°	769.9	652.5	656.1	701.6	634.6
42.5°	729.2	615.4	620.2	633.4	572.3
45°	684.8	579.5	583.1	535.2	524.4
47.5°	635.7	542.4	543.6	444.2	508.9
50°	577.1	504.1	499.2	380.7	507.6
52.5°	525.6	462.1	447.7	344.8	460.9
55°	475.3	417.8	386.7	317.2	427.4
57.5°	431.0	360.4	330.4	284.9	420.2
60°	390.3	304.1	281.4	250.2	385.5
62.5°	356.8	262.2	257.4	226.3	349.6
65°	320.9	233.5	232.3	205.9	296.9
67.5°	286.2	214.3	213.2	186.7	226.3
70°	249.0	194.0	191.6	166.4	167.6
72.5°	210.7	171.2	168.8	149.7	138.9
75°	172.4	144.9	143.7	130.5	112.6
77.5°	135.3	115.0	117.3	105.3	82.7
80°	96.9	83.8	86.2	75.4	62.2
82.5°	64.6	55.1	57.5	47.9	41.9
85°	35.9	31.2	32.3	25.2	19.2
87.5°	16.8	14.4	14.4	9.6	6.0
90°	24.4	15.5	14.5	10.0	5.5
92.5°	150.2	106.8	97.5	59.8	22.1
95°	369.5	208.1	190.8	122.0	53.1
97.5°	497.7	228.6	213.4	152.6	91.9
100°	544.4	245.7	232.0	176.8	121.8
102.5°	565.7	262.9	250.0	198.6	147.2
105°	581.6	288.3	277.4	234.0	190.4
107.5°	584.6	326.0	315.8	275.3	234.7
110°	580.1	347.0	337.8	301.2	264.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	580.3	372.4	363.7	328.8	293.9
115°	585.6	410.6	402.6	370.3	338.1
117.5°	596.6	447.7	440.4	411.1	381.9
120°	605.4	469.3	462.4	434.8	407.3
122.5°	618.1	494.8	487.8	460.1	432.2
125°	635.3	527.4	521.0	495.8	470.4
127.5°	652.5	559.0	552.5	527.0	501.4
130°	665.0	579.9	573.1	545.5	518.0
132.5°	675.2	597.2	590.3	562.7	535.1
135°	686.2	617.1	610.8	585.6	560.6
137.5°	702.8	642.5	636.3	611.4	586.6
140°	712.9	659.6	653.9	631.1	608.2
142.5°	721.5	672.4	667.1	646.0	624.8
145°	732.6	691.8	687.1	668.8	650.3
147.5°	748.8	716.1	711.7	693.7	675.7
150°	757.2	728.8	724.8	708.6	692.3
152.5°	762.7	737.1	734.1	721.8	709.5
155°	775.0	755.4	753.1	744.0	734.9
157.5°	787.1	773.6	771.4	762.6	753.7
160°	792.6	781.9	780.2	773.4	766.5
162.5°	798.6	790.9	789.5	784.3	779.2
165°	807.0	803.5	802.4	797.6	793.0
167.5°	813.7	810.8	810.2	808.0	805.8
170°	819.2	819.1	818.5	816.3	814.1
172.5°	819.6	819.6	819.5	819.0	818.5
175°	822.9	824.6	824.6	824.6	824.6
177.5°	823.3	824.6	824.6	824.6	824.6
180°	824.6	824.6	824.6	824.6	824.6



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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	9.74	10.50	10.79	11.56	12.99	12.58	13.34	13.63	14.40	15.83
	3H	10.21	10.89	11.27	11.96	13.41	13.92	14.60	14.98	15.67	17.12
	4H	10.40	11.04	11.47	12.11	13.57	14.36	15.01	15.43	16.08	17.53
	6H	10.51	11.11	11.59	12.18	13.65	14.64	15.24	15.73	16.31	17.78
	8H	10.51	11.08	11.60	12.16	13.63	14.71	15.28	15.80	16.37	17.83
	12H	10.48	11.02	11.57	12.10	13.58	14.75	15.29	15.84	16.37	17.86
4H	2H	10.76	11.41	11.84	12.48	13.94	12.98	13.62	14.06	14.69	16.15
	3H	11.78	12.32	12.87	13.42	14.89	14.47	15.01	15.56	16.11	17.58
	4H	12.05	12.55	13.15	13.63	15.13	15.00	15.50	16.09	16.58	18.07
	6H	12.17	12.60	13.27	13.71	15.19	15.36	15.79	16.46	16.90	18.38
	8H	12.18	12.57	13.28	13.67	15.17	15.47	15.86	16.57	16.96	18.47
	12H	12.14	12.50	13.26	13.61	15.12	15.52	15.88	16.64	16.99	18.50
8H	4H	12.50	12.90	13.60	14.00	15.50	15.12	15.51	16.22	16.61	18.11
	6H	12.76	13.08	13.88	14.23	15.73	15.55	15.88	16.67	17.02	18.52
	8H	12.80	13.09	13.93	14.21	15.73	15.70	15.99	16.83	17.11	18.63
	12H	12.78	13.03	13.91	14.15	15.71	15.80	16.05	16.93	17.17	18.73
12H	4H	12.50	12.86	13.62	13.97	15.48	15.08	15.43	16.20	16.55	18.05
	6H	12.82	13.10	13.95	14.23	15.75	15.55	15.83	16.68	16.96	18.48
	8H	12.88	13.13	14.01	14.25	15.81	15.70	15.96	16.84	17.08	18.63