

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: P936057

Luminaire Tested: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

**Test Information**

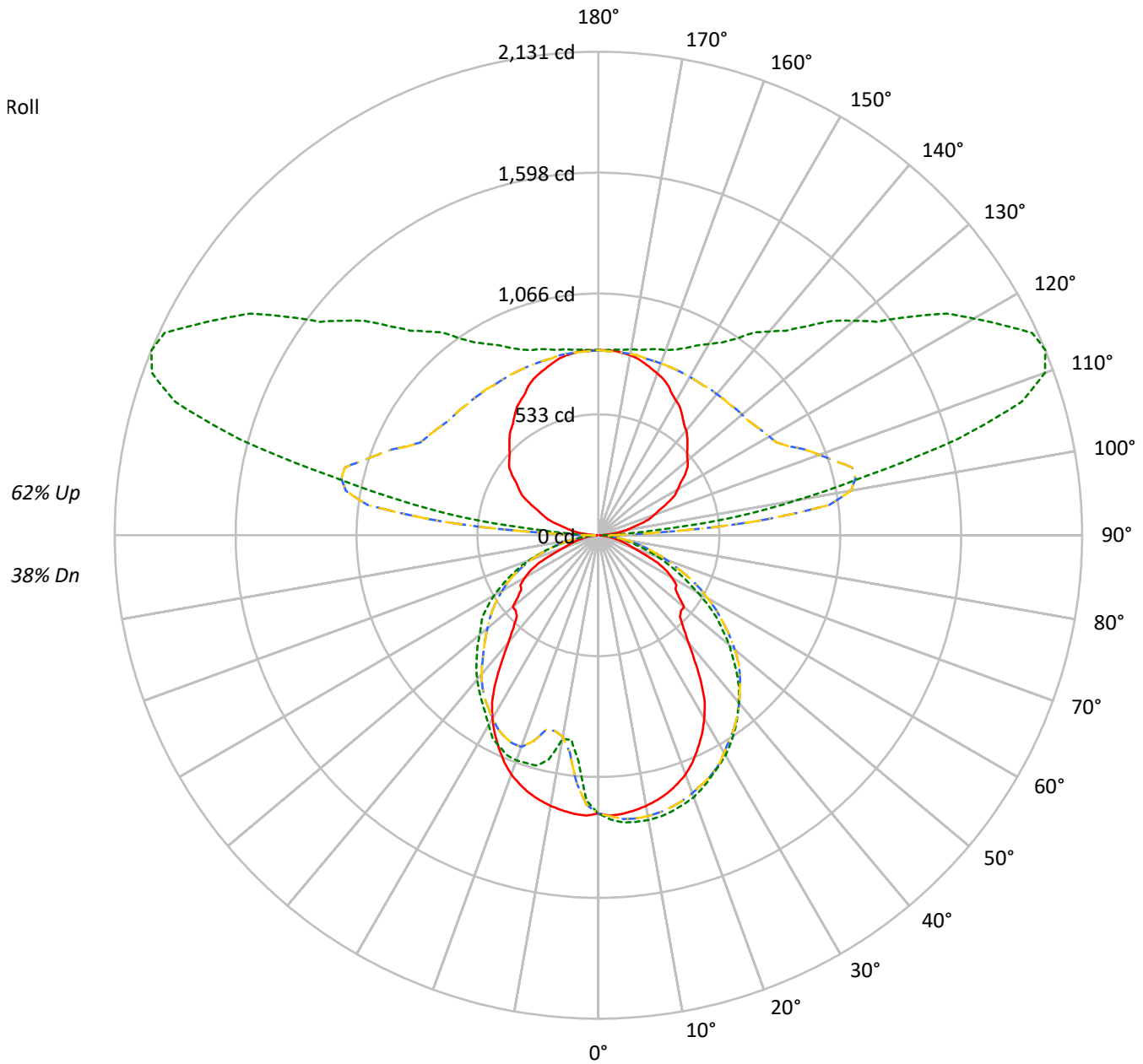
Test Method: LM-79-2019  
Report Number: P936057  
REPORT IS A COMBINATION OF REPORTS P933778 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8474.7 lumens  
Efficiency: N/A  
Efficacy: 117.1 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 (A<sub>in</sub>): 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	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°	11381	11381	11381	11381
5°	11454	11490	11454	9035
10°	11365	11318	11365	8092
15°	11229	11072	11229	9245
20°	10981	10782	10981	9265
25°	10488	10358	10488	9068
30°	9855	10006	9855	8638
35°	8772	9562	8772	8164
40°	7298	9038	7298	7806
45°	6508	8425	6508	7395
50°	6897	7694	6897	6982
55°	6471	6906	6471	6742
60°	6646	5865	6646	6175
65°	5998	4848	5998	5420
70°	4125	3865	4125	4543
75°	3578	2856	3578	3421
80°	2822	1888	2822	2056
85°	1532	1000	1532	849

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 9993 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.7	1.3
10°-20°	314.4	3.7
20°-30°	486.0	5.7
30°-40°	580.1	6.8
40°-50°	583.5	6.9
50°-60°	507.7	6.0
60°-70°	360.0	4.2
70°-80°	190.5	2.2
80°-90°	50.5	0.6
90°-100°	397.9	4.7
100°-110°	1046.0	12.3
110°-120°	1084.6	12.8
120°-130°	870.0	10.3
130°-140°	682.6	8.1
140°-150°	523.9	6.2
150°-160°	377.3	4.5
160°-170°	230.9	2.7
170°-180°	78.0	0.9
0°-30°	911.0	10.8
0°-40°	1491.2	17.6
0°-60°	2582.4	30.5
0°-90°	3183.4	37.6
90°-120°	2528.5	29.8
90°-150°	4605.1	54.3
90°-180°	5291.0	62.4
0°-180°	8474.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1226	1226	1226	1226	1226	
5°	1232	1271	1232	999	1232	117
15°	1177	1259	1177	1051	1177	331
25°	1036	1174	1036	1028	1036	476
35°	788	1048	788	895	788	487
45°	508	863	508	758	508	407
55°	414	637	414	622	414	381
65°	288	384	288	429	288	275
75°	109	182	109	218	109	115
85°	18	46	18	39	18	25
90°	5	21	5	21	5	5
95°	53	240	53	240	53	58
105°	188	1638	188	1638	188	200
115°	335	2109	335	2109	335	331
125°	466	1680	466	1680	466	413
135°	555	1303	555	1303	555	429
145°	644	1057	644	1057	644	403
155°	728	910	728	910	728	334
165°	785	848	785	848	785	222
175°	816	822	816	822	816	77
180°	816	816	816	816	816	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1237.0	1237.0	1244.0	1246.3	1246.3	1242.8	1239.4	1242.8	1253.2	1256.8	1255.6
5°	1232.4	1241.7	1254.5	1256.8	1259.0	1257.9	1255.6	1257.9	1269.5	1271.9	1273.0
7.5°	1223.1	1240.5	1256.8	1260.3	1263.7	1260.3	1259.0	1261.4	1273.0	1275.3	1275.3
10°	1211.5	1235.9	1254.5	1256.8	1260.3	1256.8	1256.8	1261.4	1273.0	1275.3	1276.5
12.5°	1195.3	1228.9	1246.3	1248.7	1253.2	1252.1	1251.0	1255.6	1267.2	1269.5	1269.5
15°	1176.7	1216.2	1232.4	1234.7	1242.8	1240.5	1240.5	1245.2	1257.9	1261.4	1260.3
17.5°	1151.2	1199.9	1218.5	1222.0	1227.8	1226.5	1227.8	1232.4	1244.0	1246.3	1247.5
20°	1122.1	1177.9	1199.9	1203.4	1209.2	1209.2	1209.2	1215.0	1226.5	1231.2	1231.2
22.5°	1082.7	1154.6	1177.9	1180.2	1187.1	1187.1	1189.5	1197.6	1208.0	1209.2	1209.2
25°	1036.3	1129.1	1148.8	1155.8	1162.8	1166.2	1169.7	1174.4	1177.9	1176.7	1177.9
27.5°	987.6	1096.6	1122.1	1126.8	1136.1	1139.6	1144.2	1145.4	1146.5	1150.0	1147.7
30°	933.0	1051.3	1089.6	1094.3	1109.4	1111.7	1107.1	1109.4	1115.2	1117.6	1119.8
32.5°	871.5	984.0	1056.0	1066.4	1080.4	1073.4	1072.2	1075.7	1085.1	1085.1	1087.3
35°	787.9	931.9	1024.7	1033.9	1044.4	1036.3	1040.9	1042.1	1047.9	1051.3	1050.2
37.5°	696.2	886.6	992.2	999.2	1007.2	996.8	1003.8	1007.2	1011.9	1009.6	1009.6
40°	615.1	815.8	953.9	958.5	965.5	957.3	964.3	966.7	968.9	966.7	965.5
42.5°	554.7	738.0	913.3	919.1	914.4	920.2	922.6	927.2	923.7	919.1	919.1
45°	508.3	717.1	869.2	876.1	869.2	878.5	881.9	881.9	871.5	869.2	868.0
47.5°	493.2	675.4	825.1	825.1	821.6	833.2	839.0	830.9	820.4	817.0	817.0
50°	492.0	629.0	764.7	760.1	776.3	790.3	784.5	776.3	768.2	755.4	755.4
52.5°	446.8	572.1	687.0	704.4	730.0	738.0	728.7	720.6	706.7	700.9	696.2
55°	414.3	512.9	616.2	651.0	677.7	688.1	670.8	662.6	641.7	638.3	635.9
57.5°	407.4	427.0	551.2	595.3	627.8	626.7	616.2	601.1	583.7	580.2	579.1
60°	373.6	308.6	481.6	533.8	567.5	564.0	554.7	540.8	524.5	522.2	519.9
62.5°	338.8	224.0	402.7	461.9	509.4	508.3	500.2	479.3	467.7	461.9	457.2
65°	287.8	188.0	286.6	384.1	452.6	454.9	437.5	422.4	409.6	402.7	401.5
67.5°	219.3	153.2	193.8	320.3	398.0	395.7	373.6	366.7	350.4	346.9	340.0
70°	162.5	102.1	134.6	260.0	344.6	338.8	321.5	313.3	298.3	290.1	285.4
72.5°	134.6	82.4	98.6	201.9	290.1	283.2	268.1	258.7	246.0	239.1	234.4
75°	109.1	87.0	75.4	149.7	235.6	230.9	217.0	207.7	197.3	188.0	189.2
77.5°	80.1	81.2	60.3	110.2	186.8	179.9	171.7	160.1	155.5	146.2	146.2
80°	60.3	63.9	45.2	75.4	134.6	134.6	127.6	119.5	111.4	106.8	106.8
82.5°	40.6	40.6	33.6	47.6	91.7	88.2	83.5	81.2	76.6	74.3	74.3
85°	18.5	23.2	20.9	29.0	49.9	52.3	52.3	49.9	48.7	46.4	47.6
87.5°	5.8	10.5	12.7	16.2	25.6	26.7	27.8	27.8	27.8	29.0	29.0
90°	5.4	9.8	14.2	15.4	24.2	35.8	41.6	37.0	27.8	20.8	20.8
92.5°	21.9	59.1	96.4	105.7	148.6	205.8	234.4	205.4	147.6	104.1	100.0
95°	52.6	120.8	188.9	206.0	365.7	578.8	685.3	611.6	464.0	353.3	340.8
97.5°	90.9	151.1	211.2	226.3	492.6	847.9	1025.5	978.9	885.6	815.7	791.8
100°	120.5	175.0	229.6	243.2	538.8	933.0	1130.1	1133.5	1140.4	1145.5	1117.0
102.5°	145.7	196.7	247.5	260.2	560.1	959.8	1159.7	1219.1	1337.9	1427.1	1402.7
105°	188.5	231.6	274.6	285.4	575.7	962.8	1156.4	1289.5	1555.9	1755.7	1742.6
107.5°	232.3	272.4	312.7	322.7	578.7	920.0	1090.7	1276.4	1648.0	1926.6	1929.8
110°	261.8	298.1	334.5	343.5	574.3	882.0	1035.9	1243.6	1658.9	1970.5	1984.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	290.9	325.5	360.1	368.7	574.5	848.9	986.1	1198.6	1623.7	1942.5	1963.4
115°	334.7	366.6	398.5	406.5	579.8	810.8	926.3	1131.1	1540.6	1847.8	1876.8
117.5°	378.0	407.0	436.0	443.2	590.6	787.0	885.2	1070.0	1439.6	1716.8	1749.0
120°	403.1	430.5	457.7	464.5	599.3	779.0	868.8	1037.6	1375.3	1628.6	1659.9
122.5°	427.8	455.3	482.9	489.7	611.9	774.8	856.3	1008.3	1312.4	1540.5	1571.3
125°	465.7	490.7	515.8	522.1	628.9	771.3	842.6	971.7	1230.0	1423.7	1452.2
127.5°	496.3	521.6	546.9	553.2	645.8	769.3	831.0	942.0	1163.7	1330.1	1354.1
130°	512.8	540.0	567.2	574.1	658.3	770.5	826.7	925.4	1122.8	1270.9	1293.0
132.5°	529.7	557.0	584.2	591.1	668.3	771.3	822.8	911.1	1088.0	1220.5	1240.3
135°	554.9	579.8	604.5	610.8	679.3	770.5	816.2	890.2	1038.2	1149.3	1166.4
137.5°	580.6	605.2	629.8	636.0	695.7	775.4	815.2	877.7	1002.8	1096.7	1110.7
140°	602.1	624.7	647.4	653.0	705.8	776.2	811.3	865.3	973.4	1054.5	1067.6
142.5°	618.5	639.4	660.3	665.6	714.1	778.9	811.3	858.8	953.7	1025.0	1036.2
145°	643.7	662.0	680.2	684.7	725.1	779.0	805.8	844.7	922.3	980.5	989.1
147.5°	668.8	686.7	704.4	708.9	741.2	784.3	805.8	836.4	897.4	943.3	950.3
150°	685.3	701.4	717.4	721.4	749.5	787.0	805.8	831.7	883.2	922.0	927.7
152.5°	702.3	714.5	726.6	729.7	755.1	788.9	805.8	827.9	872.0	905.0	909.3
155°	727.5	736.5	745.5	747.8	767.1	792.9	805.8	823.4	858.5	884.7	887.6
157.5°	746.1	754.9	763.6	765.8	779.1	797.0	805.8	819.5	846.7	867.1	869.2
160°	758.7	765.5	772.4	774.0	784.7	798.8	805.8	817.5	840.9	858.4	859.5
162.5°	771.3	776.4	781.5	782.8	790.5	800.7	805.8	815.7	835.4	850.2	851.2
165°	785.0	789.6	794.2	795.4	798.9	803.6	805.8	812.9	827.0	837.5	838.7
167.5°	797.6	799.8	802.0	802.5	805.4	809.4	811.3	815.9	825.2	832.1	832.6
170°	805.8	808.0	810.2	810.8	810.9	811.2	811.3	815.9	825.2	832.1	832.1
172.5°	810.2	810.7	811.2	811.3	811.3	811.3	811.3	815.0	822.3	827.7	827.3
175°	816.2	816.2	816.2	816.2	814.5	812.3	811.3	813.6	818.2	821.7	821.7
177.5°	816.2	816.2	816.2	816.2	815.0	813.3	812.4	814.3	817.9	820.6	820.1
180°	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1257.9	1254.5	1257.9	1255.6	1256.8	1253.2	1242.8	1239.4	1242.8	1246.3	1246.3
5°	1273.0	1270.7	1273.0	1273.0	1271.9	1269.5	1257.9	1255.6	1257.9	1259.0	1256.8
7.5°	1277.7	1274.2	1277.7	1275.3	1275.3	1273.0	1261.4	1259.0	1260.3	1263.7	1260.3
10°	1277.7	1274.2	1277.7	1276.5	1275.3	1273.0	1261.4	1256.8	1256.8	1260.3	1256.8
12.5°	1271.9	1269.5	1271.9	1269.5	1269.5	1267.2	1255.6	1251.0	1252.1	1253.2	1248.7
15°	1262.6	1259.0	1262.6	1260.3	1261.4	1257.9	1245.2	1240.5	1240.5	1242.8	1234.7
17.5°	1248.7	1244.0	1248.7	1247.5	1246.3	1244.0	1232.4	1227.8	1226.5	1227.8	1222.0
20°	1232.4	1228.9	1232.4	1231.2	1231.2	1226.5	1215.0	1209.2	1209.2	1209.2	1203.4
22.5°	1206.9	1203.4	1206.9	1209.2	1209.2	1208.0	1197.6	1189.5	1187.1	1187.1	1180.2
25°	1177.9	1174.4	1177.9	1177.9	1176.7	1177.9	1174.4	1169.7	1166.2	1162.8	1155.8
27.5°	1150.0	1147.7	1150.0	1147.7	1150.0	1146.5	1145.4	1144.2	1139.6	1136.1	1126.8
30°	1122.1	1119.8	1122.1	1119.8	1117.6	1115.2	1109.4	1107.1	1111.7	1109.4	1094.3
32.5°	1087.3	1085.1	1087.3	1087.3	1085.1	1085.1	1075.7	1072.2	1073.4	1080.4	1066.4
35°	1051.3	1047.9	1051.3	1050.2	1051.3	1047.9	1042.1	1040.9	1036.3	1044.4	1033.9
37.5°	1009.6	1006.1	1009.6	1009.6	1009.6	1011.9	1007.2	1003.8	996.8	1007.2	999.2
40°	966.7	962.0	966.7	965.5	966.7	968.9	966.7	964.3	957.3	965.5	958.5
42.5°	917.9	916.8	917.9	919.1	919.1	923.7	927.2	922.6	920.2	914.4	919.1
45°	865.7	863.4	865.7	868.0	869.2	871.5	881.9	881.9	878.5	869.2	876.1
47.5°	810.0	804.2	810.0	817.0	817.0	820.4	830.9	839.0	833.2	821.6	825.1
50°	750.8	752.0	750.8	755.4	755.4	768.2	776.3	784.5	790.3	776.3	760.1
52.5°	692.8	691.7	692.8	696.2	700.9	706.7	720.6	728.7	738.0	730.0	704.4
55°	634.7	637.1	634.7	635.9	638.3	641.7	662.6	670.8	688.1	677.7	651.0
57.5°	576.8	573.3	576.8	579.1	580.2	583.7	601.1	616.2	626.7	627.8	595.3
60°	509.4	504.8	509.4	519.9	522.2	524.5	540.8	554.7	564.0	567.5	533.8
62.5°	450.2	442.1	450.2	457.2	461.9	467.7	479.3	500.2	508.3	509.4	461.9
65°	387.6	384.1	387.6	401.5	402.7	409.6	422.4	437.5	454.9	452.6	384.1
67.5°	330.8	330.8	330.8	340.0	346.9	350.4	366.7	373.6	395.7	398.0	320.3
70°	278.5	277.4	278.5	285.4	290.1	298.3	313.3	321.5	338.8	344.6	260.0
72.5°	228.6	227.5	228.6	234.4	239.1	246.0	258.7	268.1	283.2	290.1	201.9
75°	184.5	182.2	184.5	189.2	188.0	197.3	207.7	217.0	230.9	235.6	149.7
77.5°	141.6	141.6	141.6	146.2	146.2	155.5	160.1	171.7	179.9	186.8	110.2
80°	105.6	104.4	105.6	106.8	106.8	111.4	119.5	127.6	134.6	134.6	75.4
82.5°	74.3	71.9	74.3	74.3	74.3	76.6	81.2	83.5	88.2	91.7	47.6
85°	46.4	46.4	46.4	47.6	46.4	48.7	49.9	52.3	52.3	49.9	29.0
87.5°	30.2	29.0	30.2	29.0	29.0	27.8	27.8	27.8	26.7	25.6	16.2
90°	20.8	20.8	20.8	20.8	20.8	27.8	37.0	41.6	35.8	24.2	15.4
92.5°	83.4	66.8	83.4	100.0	104.1	147.6	205.4	234.4	205.8	148.6	105.7
95°	290.6	240.5	290.6	340.8	353.3	464.0	611.6	685.3	578.8	365.7	206.0
97.5°	696.4	600.9	696.4	791.8	815.7	885.6	978.9	1025.5	847.9	492.6	226.3
100°	1003.4	889.6	1003.4	1117.0	1145.5	1140.4	1133.5	1130.1	933.0	538.8	243.2
102.5°	1305.3	1207.9	1305.3	1402.7	1427.1	1337.9	1219.1	1159.7	959.8	560.1	260.2
105°	1690.3	1637.9	1690.3	1742.6	1755.7	1555.9	1289.5	1156.4	962.8	575.7	285.4
107.5°	1942.5	1955.1	1942.5	1929.8	1926.6	1648.0	1276.4	1090.7	920.0	578.7	322.7
110°	2038.6	2093.2	2038.6	1984.1	1970.5	1658.9	1243.6	1035.9	882.0	574.3	343.5





TEST NUMBER: P936057

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2047.2	2130.9	2047.2	1963.4	1942.5	1623.7	1198.6	986.1	848.9	574.5	368.7
115°	1993.0	2109.1	1993.0	1876.8	1847.8	1540.6	1131.1	926.3	810.8	579.8	406.5
117.5°	1877.8	2006.6	1877.8	1749.0	1716.8	1439.6	1070.0	885.2	787.0	590.6	443.2
120°	1785.1	1910.2	1785.1	1659.9	1628.6	1375.3	1037.6	868.8	779.0	599.3	464.5
122.5°	1694.8	1818.2	1694.8	1571.3	1540.5	1312.4	1008.3	856.3	774.8	611.9	489.7
125°	1565.8	1679.6	1565.8	1452.2	1423.7	1230.0	971.7	842.6	771.3	628.9	522.1
127.5°	1450.0	1545.9	1450.0	1354.1	1330.1	1163.7	942.0	831.0	769.3	645.8	553.2
130°	1381.7	1470.3	1381.7	1293.0	1270.9	1122.8	925.4	826.7	770.5	658.3	574.1
132.5°	1319.6	1399.0	1319.6	1240.3	1220.5	1088.0	911.1	822.8	771.3	668.3	591.1
135°	1234.8	1303.2	1234.8	1166.4	1149.3	1038.2	890.2	816.2	770.5	679.3	610.8
137.5°	1166.7	1222.7	1166.7	1110.7	1096.7	1002.8	877.7	815.2	775.4	695.7	636.0
140°	1119.9	1172.3	1119.9	1067.6	1054.5	973.4	865.3	811.3	776.2	705.8	653.0
142.5°	1081.3	1126.2	1081.3	1036.2	1025.0	953.7	858.8	811.3	778.9	714.1	665.6
145°	1023.2	1057.3	1023.2	989.1	980.5	922.3	844.7	805.8	779.0	725.1	684.7
147.5°	978.6	1006.9	978.6	950.3	943.3	897.4	836.4	805.8	784.3	741.2	708.9
150°	950.6	973.4	950.6	927.7	922.0	883.2	831.7	805.8	787.0	749.5	721.4
152.5°	926.6	943.8	926.6	909.3	905.0	872.0	827.9	805.8	788.9	755.1	729.7
155°	899.0	910.4	899.0	887.6	884.7	858.5	823.4	805.8	792.9	767.1	747.8
157.5°	877.2	885.2	877.2	869.2	867.1	846.7	819.5	805.8	797.0	779.1	765.8
160°	864.2	868.8	864.2	859.5	858.4	840.9	817.5	805.8	798.8	784.7	774.0
162.5°	855.6	860.0	855.6	851.2	850.2	835.4	815.7	805.8	800.7	790.5	782.8
165°	843.3	848.0	843.3	838.7	837.5	827.0	812.9	805.8	803.6	798.9	795.4
167.5°	834.6	836.5	834.6	832.6	832.1	825.2	815.9	811.3	809.4	805.4	802.5
170°	832.1	832.1	832.1	832.1	832.1	825.2	815.9	811.3	811.2	810.9	810.8
172.5°	825.6	823.9	825.6	827.3	827.7	822.3	815.0	811.3	811.3	811.3	811.3
175°	821.7	821.7	821.7	821.7	821.7	818.2	813.6	811.3	812.3	814.5	816.2
177.5°	818.1	816.2	818.1	820.1	820.6	817.9	814.3	812.4	813.3	815.0	816.2
180°	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2



TEST NUMBER: P936057

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1244.0	1237.0	1237.0	1225.4	1220.8	1217.3	1211.5	1194.1	1189.5	1184.8	1191.8
5°	1254.5	1241.7	1232.4	1211.5	1194.1	1187.1	1165.1	1123.3	1095.4	1074.6	1063.0
7.5°	1256.8	1240.5	1223.1	1190.6	1148.8	1130.3	1063.0	986.4	965.5	946.9	935.3
10°	1254.5	1235.9	1211.5	1162.8	1064.1	1031.7	964.3	914.4	901.7	898.2	901.7
12.5°	1246.3	1228.9	1195.3	1114.0	976.0	953.9	914.4	885.4	883.1	888.9	920.2
15°	1232.4	1216.2	1176.7	1049.0	927.2	911.0	883.1	872.7	885.4	926.0	1020.1
17.5°	1218.5	1199.9	1151.2	985.2	890.1	878.5	858.7	879.6	951.6	1006.1	1037.4
20°	1199.9	1177.9	1122.1	938.8	863.4	852.9	843.6	937.7	992.2	1011.9	1029.3
22.5°	1177.9	1154.6	1082.7	906.3	835.5	827.4	833.2	970.2	992.2	1006.1	1021.2
25°	1148.8	1129.1	1036.3	880.8	813.5	804.2	826.2	966.7	979.4	982.9	1013.0
27.5°	1122.1	1096.6	987.6	857.6	786.8	783.3	832.0	951.6	960.9	964.3	996.8
30°	1089.6	1051.3	933.0	833.2	758.9	757.8	833.2	933.0	930.6	940.0	972.5
32.5°	1056.0	984.0	871.5	803.0	732.2	731.1	825.1	905.2	902.8	915.6	940.0
35°	1024.7	931.9	787.9	768.2	698.6	699.7	805.3	872.7	873.8	885.4	900.5
37.5°	992.2	886.6	696.2	730.0	666.1	666.1	778.6	842.5	840.2	843.6	864.5
40°	953.9	815.8	615.1	680.0	635.9	632.5	746.2	810.0	801.9	800.7	829.7
42.5°	913.3	738.0	554.7	613.8	601.1	596.5	706.7	770.5	755.4	758.9	796.1
45°	869.2	717.1	508.3	518.7	565.1	561.7	663.7	725.3	714.8	724.2	762.5
47.5°	825.1	675.4	493.2	430.5	526.8	525.7	616.2	681.2	675.4	684.6	725.3
50°	764.7	629.0	492.0	369.1	483.9	488.5	559.3	638.3	638.3	646.3	689.3
52.5°	687.0	572.1	446.8	334.2	434.0	447.9	509.4	601.1	603.4	611.6	649.9
55°	616.2	512.9	414.3	307.5	374.9	405.0	460.7	562.8	567.5	575.6	610.4
57.5°	551.2	427.0	407.4	276.2	320.3	349.3	417.7	525.7	528.0	535.0	568.6
60°	481.6	308.6	373.6	242.5	272.7	294.8	378.3	481.6	489.7	494.3	523.4
62.5°	402.7	224.0	338.8	219.3	249.5	254.2	345.8	439.8	450.2	453.7	471.1
65°	286.6	188.0	287.8	199.6	225.1	226.3	311.0	396.9	406.1	411.9	424.7
67.5°	193.8	153.2	219.3	181.0	206.6	207.7	277.4	346.9	359.8	364.4	372.5
70°	134.6	102.1	162.5	161.3	185.7	188.0	241.4	301.7	313.3	316.8	321.5
72.5°	98.6	82.4	134.6	145.1	163.6	165.9	204.2	250.7	262.3	265.8	268.1
75°	75.4	87.0	109.1	126.5	139.2	140.4	167.1	204.2	212.4	214.7	215.8
77.5°	60.3	81.2	80.1	102.1	113.7	111.4	131.1	157.8	164.8	164.8	164.8
80°	45.2	63.9	60.3	73.1	83.5	81.2	94.0	112.6	114.9	117.2	116.0
82.5°	33.6	40.6	40.6	46.4	55.7	53.4	62.6	73.1	73.1	73.1	75.4
85°	20.9	23.2	18.5	24.3	31.4	30.2	34.8	39.4	40.6	40.6	38.3
87.5°	12.7	10.5	5.8	9.3	14.0	14.0	16.2	17.4	16.2	16.2	16.2
90°	14.2	9.8	5.4	9.8	14.2	15.4	24.2	35.8	41.6	37.0	27.8
92.5°	96.4	59.1	21.9	59.1	96.4	105.7	148.6	205.8	234.4	205.4	147.6
95°	188.9	120.8	52.6	120.8	188.9	206.0	365.7	578.8	685.3	611.6	464.0
97.5°	211.2	151.1	90.9	151.1	211.2	226.3	492.6	847.9	1025.5	978.9	885.6
100°	229.6	175.0	120.5	175.0	229.6	243.2	538.8	933.0	1130.1	1133.5	1140.4
102.5°	247.5	196.7	145.7	196.7	247.5	260.2	560.1	959.8	1159.7	1219.1	1337.9
105°	274.6	231.6	188.5	231.6	274.6	285.4	575.7	962.8	1156.4	1289.5	1555.9
107.5°	312.7	272.4	232.3	272.4	312.7	322.7	578.7	920.0	1090.7	1276.4	1648.0
110°	334.5	298.1	261.8	298.1	334.5	343.5	574.3	882.0	1035.9	1243.6	1658.9



TEST NUMBER: P936057

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	360.1	325.5	290.9	325.5	360.1	368.7	574.5	848.9	986.1	1198.6	1623.7
115°	398.5	366.6	334.7	366.6	398.5	406.5	579.8	810.8	926.3	1131.1	1540.6
117.5°	436.0	407.0	378.0	407.0	436.0	443.2	590.6	787.0	885.2	1070.0	1439.6
120°	457.7	430.5	403.1	430.5	457.7	464.5	599.3	779.0	868.8	1037.6	1375.3
122.5°	482.9	455.3	427.8	455.3	482.9	489.7	611.9	774.8	856.3	1008.3	1312.4
125°	515.8	490.7	465.7	490.7	515.8	522.1	628.9	771.3	842.6	971.7	1230.0
127.5°	546.9	521.6	496.3	521.6	546.9	553.2	645.8	769.3	831.0	942.0	1163.7
130°	567.2	540.0	512.8	540.0	567.2	574.1	658.3	770.5	826.7	925.4	1122.8
132.5°	584.2	557.0	529.7	557.0	584.2	591.1	668.3	771.3	822.8	911.1	1088.0
135°	604.5	579.8	554.9	579.8	604.5	610.8	679.3	770.5	816.2	890.2	1038.2
137.5°	629.8	605.2	580.6	605.2	629.8	636.0	695.7	775.4	815.2	877.7	1002.8
140°	647.4	624.7	602.1	624.7	647.4	653.0	705.8	776.2	811.3	865.3	973.4
142.5°	660.3	639.4	618.5	639.4	660.3	665.6	714.1	778.9	811.3	858.8	953.7
145°	680.2	662.0	643.7	662.0	680.2	684.7	725.1	779.0	805.8	844.7	922.3
147.5°	704.4	686.7	668.8	686.7	704.4	708.9	741.2	784.3	805.8	836.4	897.4
150°	717.4	701.4	685.3	701.4	717.4	721.4	749.5	787.0	805.8	831.7	883.2
152.5°	726.6	714.5	702.3	714.5	726.6	729.7	755.1	788.9	805.8	827.9	872.0
155°	745.5	736.5	727.5	736.5	745.5	747.8	767.1	792.9	805.8	823.4	858.5
157.5°	763.6	754.9	746.1	754.9	763.6	765.8	779.1	797.0	805.8	819.5	846.7
160°	772.4	765.5	758.7	765.5	772.4	774.0	784.7	798.8	805.8	817.5	840.9
162.5°	781.5	776.4	771.3	776.4	781.5	782.8	790.5	800.7	805.8	815.7	835.4
165°	794.2	789.6	785.0	789.6	794.2	795.4	798.9	803.6	805.8	812.9	827.0
167.5°	802.0	799.8	797.6	799.8	802.0	802.5	805.4	809.4	811.3	815.9	825.2
170°	810.2	808.0	805.8	808.0	810.2	810.8	810.9	811.2	811.3	815.9	825.2
172.5°	811.2	810.7	810.2	810.7	811.2	811.3	811.3	811.3	811.3	815.0	822.3
175°	816.2	816.2	816.2	816.2	816.2	816.2	814.5	812.3	811.3	813.6	818.2
177.5°	816.2	816.2	816.2	816.2	816.2	816.2	815.0	813.3	812.4	814.3	817.9
180°	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2



TEST NUMBER: P936057

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1183.7	1180.2	1184.8	1172.0	1184.8	1180.2	1183.7	1191.8	1184.8	1189.5	1194.1
5°	1038.6	1032.8	1014.3	999.2	1014.3	1032.8	1038.6	1063.0	1074.6	1095.4	1123.3
7.5°	928.4	923.7	919.1	909.7	919.1	923.7	928.4	935.3	946.9	965.5	986.4
10°	903.9	905.2	912.1	911.0	912.1	905.2	903.9	901.7	898.2	901.7	914.4
12.5°	966.7	977.1	1015.4	1013.0	1015.4	977.1	966.7	920.2	888.9	883.1	885.4
15°	1038.6	1042.1	1050.2	1051.3	1050.2	1042.1	1038.6	1020.1	926.0	885.4	872.7
17.5°	1045.5	1046.8	1052.6	1052.6	1052.6	1046.8	1045.5	1037.4	1006.1	951.6	879.6
20°	1039.7	1042.1	1053.7	1056.0	1053.7	1042.1	1039.7	1029.3	1011.9	992.2	937.7
22.5°	1037.4	1042.1	1051.3	1050.2	1051.3	1042.1	1037.4	1021.2	1006.1	992.2	970.2
25°	1025.9	1025.9	1027.0	1028.1	1027.0	1025.9	1025.9	1013.0	982.9	979.4	966.7
27.5°	1001.4	1003.8	1010.7	1009.6	1010.7	1003.8	1001.4	996.8	964.3	960.9	951.6
30°	979.4	977.1	971.3	966.7	971.3	977.1	979.4	972.5	940.0	930.6	933.0
32.5°	942.2	936.4	930.6	927.2	930.6	936.4	942.2	940.0	915.6	902.8	905.2
35°	898.2	899.4	898.2	894.7	898.2	899.4	898.2	900.5	885.4	873.8	872.7
37.5°	866.9	869.2	868.0	863.4	868.0	869.2	866.9	864.5	843.6	840.2	842.5
40°	834.4	835.5	834.4	830.9	834.4	835.5	834.4	829.7	800.7	801.9	810.0
42.5°	803.0	801.9	798.4	796.1	798.4	801.9	803.0	796.1	758.9	755.4	770.5
45°	767.0	768.2	761.2	757.8	761.2	768.2	767.0	762.5	724.2	714.8	725.3
47.5°	731.1	731.1	725.3	721.8	725.3	731.1	731.1	725.3	684.6	675.4	681.2
50°	692.8	691.7	683.5	682.4	683.5	691.7	692.8	689.3	646.3	638.3	638.3
52.5°	648.7	648.7	649.9	652.1	649.9	648.7	648.7	649.9	611.6	603.4	601.1
55°	610.4	611.6	619.6	622.0	619.6	611.6	610.4	610.4	575.6	567.5	562.8
57.5°	570.9	570.9	576.8	576.8	576.8	570.9	570.9	568.6	535.0	528.0	525.7
60°	525.7	528.0	532.6	531.5	532.6	528.0	525.7	523.4	494.3	489.7	481.6
62.5°	478.1	480.4	481.6	479.3	481.6	480.4	478.1	471.1	453.7	450.2	439.8
65°	428.2	430.5	431.7	429.4	431.7	430.5	428.2	424.7	411.9	406.1	396.9
67.5°	377.1	376.0	374.9	379.4	374.9	376.0	377.1	372.5	364.4	359.8	346.9
70°	324.9	324.9	323.7	326.1	323.7	324.9	324.9	321.5	316.8	313.3	301.7
72.5°	269.2	268.1	272.7	269.2	272.7	268.1	269.2	268.1	265.8	262.3	250.7
75°	214.7	217.0	214.7	218.2	214.7	217.0	214.7	215.8	214.7	212.4	204.2
77.5°	163.6	165.9	163.6	163.6	163.6	165.9	163.6	164.8	164.8	164.8	157.8
80°	116.0	114.9	114.9	113.7	114.9	114.9	116.0	116.0	117.2	114.9	112.6
82.5°	74.3	73.1	73.1	75.4	73.1	73.1	74.3	75.4	73.1	73.1	73.1
85°	40.6	41.8	39.4	39.4	39.4	41.8	40.6	38.3	40.6	40.6	39.4
87.5°	15.1	14.0	14.0	14.0	14.0	14.0	15.1	16.2	16.2	16.2	17.4
90°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	27.8	37.0	41.6	35.8
92.5°	104.1	100.0	83.4	66.8	83.4	100.0	104.1	147.6	205.4	234.4	205.8
95°	353.3	340.8	290.6	240.5	290.6	340.8	353.3	464.0	611.6	685.3	578.8
97.5°	815.7	791.8	696.4	600.9	696.4	791.8	815.7	885.6	978.9	1025.5	847.9
100°	1145.5	1117.0	1003.4	889.6	1003.4	1117.0	1145.5	1140.4	1133.5	1130.1	933.0
102.5°	1427.1	1402.7	1305.3	1207.9	1305.3	1402.7	1427.1	1337.9	1219.1	1159.7	959.8
105°	1755.7	1742.6	1690.3	1637.9	1690.3	1742.6	1755.7	1555.9	1289.5	1156.4	962.8
107.5°	1926.6	1929.8	1942.5	1955.1	1942.5	1929.8	1926.6	1648.0	1276.4	1090.7	920.0
110°	1970.5	1984.1	2038.6	2093.2	2038.6	1984.1	1970.5	1658.9	1243.6	1035.9	882.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1942.5	1963.4	2047.2	2130.9	2047.2	1963.4	1942.5	1623.7	1198.6	986.1	848.9
115°	1847.8	1876.8	1993.0	2109.1	1993.0	1876.8	1847.8	1540.6	1131.1	926.3	810.8
117.5°	1716.8	1749.0	1877.8	2006.6	1877.8	1749.0	1716.8	1439.6	1070.0	885.2	787.0
120°	1628.6	1659.9	1785.1	1910.2	1785.1	1659.9	1628.6	1375.3	1037.6	868.8	779.0
122.5°	1540.5	1571.3	1694.8	1818.2	1694.8	1571.3	1540.5	1312.4	1008.3	856.3	774.8
125°	1423.7	1452.2	1565.8	1679.6	1565.8	1452.2	1423.7	1230.0	971.7	842.6	771.3
127.5°	1330.1	1354.1	1450.0	1545.9	1450.0	1354.1	1330.1	1163.7	942.0	831.0	769.3
130°	1270.9	1293.0	1381.7	1470.3	1381.7	1293.0	1270.9	1122.8	925.4	826.7	770.5
132.5°	1220.5	1240.3	1319.6	1399.0	1319.6	1240.3	1220.5	1088.0	911.1	822.8	771.3
135°	1149.3	1166.4	1234.8	1303.2	1234.8	1166.4	1149.3	1038.2	890.2	816.2	770.5
137.5°	1096.7	1110.7	1166.7	1222.7	1166.7	1110.7	1096.7	1002.8	877.7	815.2	775.4
140°	1054.5	1067.6	1119.9	1172.3	1119.9	1067.6	1054.5	973.4	865.3	811.3	776.2
142.5°	1025.0	1036.2	1081.3	1126.2	1081.3	1036.2	1025.0	953.7	858.8	811.3	778.9
145°	980.5	989.1	1023.2	1057.3	1023.2	989.1	980.5	922.3	844.7	805.8	779.0
147.5°	943.3	950.3	978.6	1006.9	978.6	950.3	943.3	897.4	836.4	805.8	784.3
150°	922.0	927.7	950.6	973.4	950.6	927.7	922.0	883.2	831.7	805.8	787.0
152.5°	905.0	909.3	926.6	943.8	926.6	909.3	905.0	872.0	827.9	805.8	788.9
155°	884.7	887.6	899.0	910.4	899.0	887.6	884.7	858.5	823.4	805.8	792.9
157.5°	867.1	869.2	877.2	885.2	877.2	869.2	867.1	846.7	819.5	805.8	797.0
160°	858.4	859.5	864.2	868.8	864.2	859.5	858.4	840.9	817.5	805.8	798.8
162.5°	850.2	851.2	855.6	860.0	855.6	851.2	850.2	835.4	815.7	805.8	800.7
165°	837.5	838.7	843.3	848.0	843.3	838.7	837.5	827.0	812.9	805.8	803.6
167.5°	832.1	832.6	834.6	836.5	834.6	832.6	832.1	825.2	815.9	811.3	809.4
170°	832.1	832.1	832.1	832.1	832.1	832.1	832.1	825.2	815.9	811.3	811.2
172.5°	827.7	827.3	825.6	823.9	825.6	827.3	827.7	822.3	815.0	811.3	811.3
175°	821.7	821.7	821.7	821.7	821.7	821.7	821.7	818.2	813.6	811.3	812.3
177.5°	820.6	820.1	818.1	816.2	818.1	820.1	820.6	817.9	814.3	812.4	813.3
180°	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1211.5	1217.3	1220.8	1225.4	1237.0
5°	1165.1	1187.1	1194.1	1211.5	1232.4
7.5°	1063.0	1130.3	1148.8	1190.6	1223.1
10°	964.3	1031.7	1064.1	1162.8	1211.5
12.5°	914.4	953.9	976.0	1114.0	1195.3
15°	883.1	911.0	927.2	1049.0	1176.7
17.5°	858.7	878.5	890.1	985.2	1151.2
20°	843.6	852.9	863.4	938.8	1122.1
22.5°	833.2	827.4	835.5	906.3	1082.7
25°	826.2	804.2	813.5	880.8	1036.3
27.5°	832.0	783.3	786.8	857.6	987.6
30°	833.2	757.8	758.9	833.2	933.0
32.5°	825.1	731.1	732.2	803.0	871.5
35°	805.3	699.7	698.6	768.2	787.9
37.5°	778.6	666.1	666.1	730.0	696.2
40°	746.2	632.5	635.9	680.0	615.1
42.5°	706.7	596.5	601.1	613.8	554.7
45°	663.7	561.7	565.1	518.7	508.3
47.5°	616.2	525.7	526.8	430.5	493.2
50°	559.3	488.5	483.9	369.1	492.0
52.5°	509.4	447.9	434.0	334.2	446.8
55°	460.7	405.0	374.9	307.5	414.3
57.5°	417.7	349.3	320.3	276.2	407.4
60°	378.3	294.8	272.7	242.5	373.6
62.5°	345.8	254.2	249.5	219.3	338.8
65°	311.0	226.3	225.1	199.6	287.8
67.5°	277.4	207.7	206.6	181.0	219.3
70°	241.4	188.0	185.7	161.3	162.5
72.5°	204.2	165.9	163.6	145.1	134.6
75°	167.1	140.4	139.2	126.5	109.1
77.5°	131.1	111.4	113.7	102.1	80.1
80°	94.0	81.2	83.5	73.1	60.3
82.5°	62.6	53.4	55.7	46.4	40.6
85°	34.8	30.2	31.4	24.3	18.5
87.5°	16.2	14.0	14.0	9.3	5.8
90°	24.2	15.4	14.2	9.8	5.4
92.5°	148.6	105.7	96.4	59.1	21.9
95°	365.7	206.0	188.9	120.8	52.6
97.5°	492.6	226.3	211.2	151.1	90.9
100°	538.8	243.2	229.6	175.0	120.5
102.5°	560.1	260.2	247.5	196.7	145.7
105°	575.7	285.4	274.6	231.6	188.5
107.5°	578.7	322.7	312.7	272.4	232.3
110°	574.3	343.5	334.5	298.1	261.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	574.5	368.7	360.1	325.5	290.9
115°	579.8	406.5	398.5	366.6	334.7
117.5°	590.6	443.2	436.0	407.0	378.0
120°	599.3	464.5	457.7	430.5	403.1
122.5°	611.9	489.7	482.9	455.3	427.8
125°	628.9	522.1	515.8	490.7	465.7
127.5°	645.8	553.2	546.9	521.6	496.3
130°	658.3	574.1	567.2	540.0	512.8
132.5°	668.3	591.1	584.2	557.0	529.7
135°	679.3	610.8	604.5	579.8	554.9
137.5°	695.7	636.0	629.8	605.2	580.6
140°	705.8	653.0	647.4	624.7	602.1
142.5°	714.1	665.6	660.3	639.4	618.5
145°	725.1	684.7	680.2	662.0	643.7
147.5°	741.2	708.9	704.4	686.7	668.8
150°	749.5	721.4	717.4	701.4	685.3
152.5°	755.1	729.7	726.6	714.5	702.3
155°	767.1	747.8	745.5	736.5	727.5
157.5°	779.1	765.8	763.6	754.9	746.1
160°	784.7	774.0	772.4	765.5	758.7
162.5°	790.5	782.8	781.5	776.4	771.3
165°	798.9	795.4	794.2	789.6	785.0
167.5°	805.4	802.5	802.0	799.8	797.6
170°	810.9	810.8	810.2	808.0	805.8
172.5°	811.3	811.3	811.2	810.7	810.2
175°	814.5	816.2	816.2	816.2	816.2
177.5°	815.0	816.2	816.2	816.2	816.2
180°	816.2	816.2	816.2	816.2	816.2



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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	11.97	12.73	13.03	13.79	15.23	14.77	15.53	15.83	16.59	18.03
	3H	12.44	13.12	13.51	14.19	15.65	16.10	16.78	17.16	17.85	19.30
	4H	12.63	13.27	13.70	14.34	15.81	16.53	17.17	17.61	18.25	19.71
	6H	12.74	13.33	13.83	14.41	15.88	16.80	17.39	17.89	18.47	19.94
	8H	12.74	13.30	13.83	14.39	15.86	16.87	17.43	17.96	18.52	19.99
	12H	12.71	13.24	13.80	14.33	15.82	16.90	17.44	18.00	18.52	20.01
4H	2H	12.98	13.63	14.07	14.70	16.16	15.17	15.81	16.25	16.88	18.35
	3H	14.00	14.54	15.09	15.64	17.11	16.65	17.19	17.75	18.29	19.77
	4H	14.27	14.76	15.37	15.85	17.35	17.17	17.66	18.27	18.75	20.25
	6H	14.39	14.81	15.50	15.93	17.42	17.52	17.94	18.63	19.06	20.55
	8H	14.39	14.79	15.50	15.89	17.40	17.62	18.02	18.73	19.12	20.63
	12H	14.36	14.71	15.48	15.83	17.34	17.67	18.03	18.79	19.14	20.65
8H	4H	14.71	15.11	15.82	16.21	17.72	17.29	17.68	18.39	18.79	20.29
	6H	14.97	15.30	16.10	16.44	17.94	17.71	18.04	18.84	19.18	20.69
	8H	15.01	15.30	16.14	16.42	17.95	17.86	18.14	18.99	19.27	20.79
	12H	14.99	15.24	16.13	16.36	17.92	17.95	18.20	19.08	19.32	20.88
12H	4H	14.71	15.07	15.83	16.19	17.70	17.25	17.60	18.37	18.72	20.23
	6H	15.03	15.31	16.16	16.44	17.96	17.71	17.99	18.84	19.12	20.64
	8H	15.09	15.34	16.23	16.46	18.02	17.86	18.11	19.00	19.23	20.79