

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: P936032

Luminaire Tested: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936032
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-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

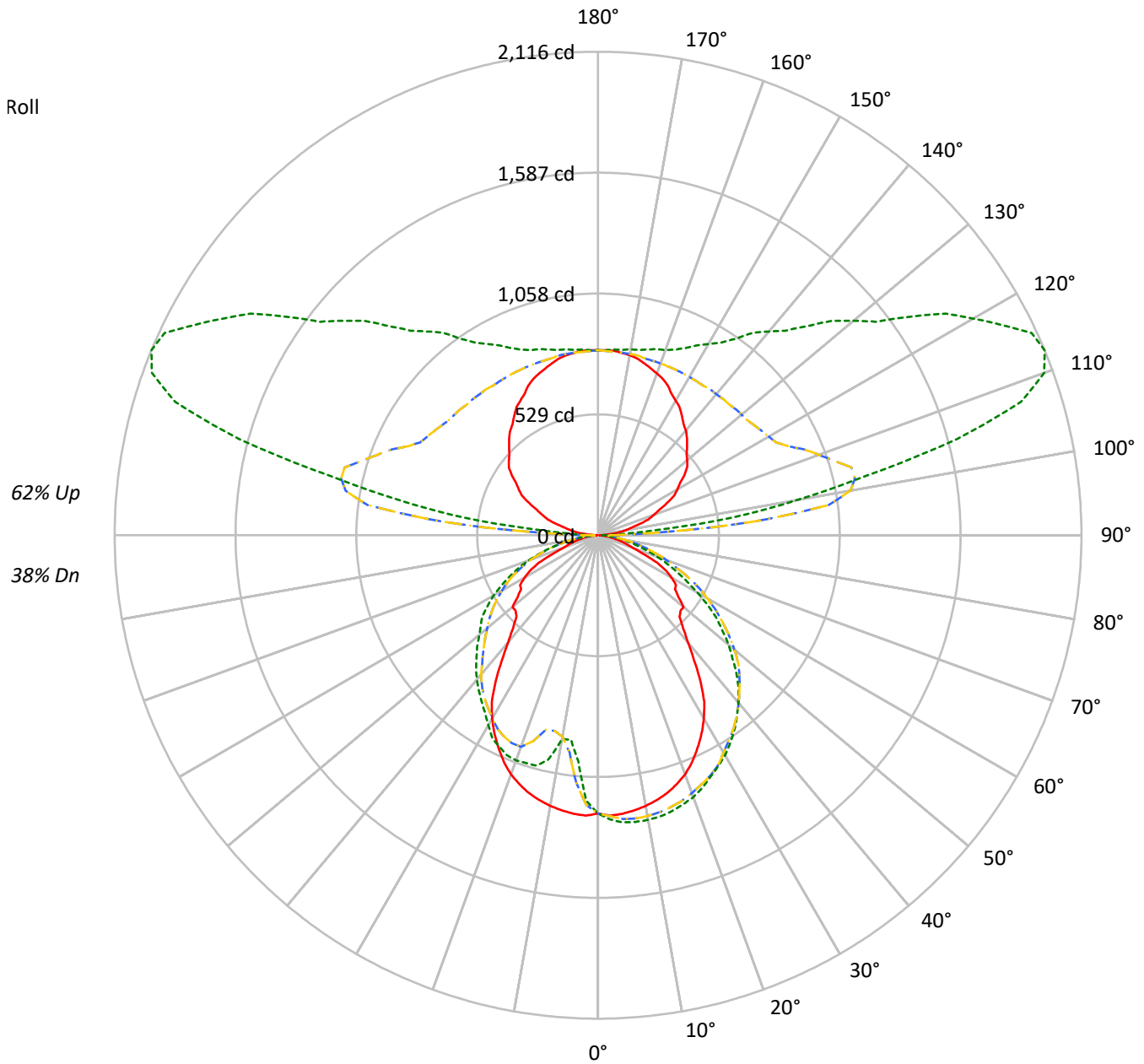
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8414.3 lumens
Efficiency: N/A
Efficacy: 116.2 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

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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°	11300	11300	11300	11300
5°	11373	11408	11373	8970
10°	11284	11237	11284	8034
15°	11149	10993	11149	9179
20°	10902	10705	10902	9198
25°	10413	10284	10413	9004
30°	9785	9935	9785	8577
35°	8709	9493	8709	8105
40°	7246	8973	7246	7750
45°	6460	8365	6460	7342
50°	6848	7639	6848	6932
55°	6425	6857	6425	6695
60°	6599	5823	6599	6131
65°	5956	4813	5956	5381
70°	4095	3837	4095	4511
75°	3551	2836	3551	3396
80°	2803	1875	2803	2041
85°	1524	991	1524	845

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9922 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	1.3
10°-20°	312.1	3.7
20°-30°	482.5	5.7
30°-40°	576.0	6.8
40°-50°	579.4	6.9
50°-60°	504.1	6.0
60°-70°	357.4	4.2
70°-80°	189.1	2.2
80°-90°	50.2	0.6
90°-100°	395.0	4.7
100°-110°	1038.6	12.3
110°-120°	1076.9	12.8
120°-130°	863.8	10.3
130°-140°	677.8	8.1
140°-150°	520.2	6.2
150°-160°	374.6	4.5
160°-170°	229.2	2.7
170°-180°	77.4	0.9
0°-30°	904.5	10.8
0°-40°	1480.5	17.6
0°-60°	2564.0	30.5
0°-90°	3160.7	37.6
90°-120°	2510.5	29.8
90°-150°	4572.2	54.3
90°-180°	5254.0	62.4
0°-180°	8414.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1218	1218	1218	1218	1218	
5°	1224	1262	1224	992	1224	116
15°	1168	1250	1168	1044	1168	329
25°	1029	1166	1029	1021	1029	472
35°	782	1040	782	888	782	484
45°	505	857	505	752	505	404
55°	411	633	411	618	411	378
65°	286	381	286	426	286	273
75°	108	181	108	217	108	114
85°	18	46	18	39	18	25
90°	5	21	5	21	5	5
95°	52	239	52	239	52	58
105°	187	1626	187	1626	187	198
115°	332	2094	332	2094	332	328
125°	462	1668	462	1668	462	410
135°	551	1294	551	1294	551	426
145°	639	1050	639	1050	639	400
155°	722	904	722	904	722	332
165°	779	842	779	842	779	220
175°	810	816	810	816	810	77
180°	810	810	810	810	810	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1228.2	1228.2	1235.1	1237.4	1237.4	1233.9	1230.5	1233.9	1244.3	1247.8	1246.7
5°	1223.6	1232.8	1245.5	1247.8	1250.1	1248.9	1246.7	1248.9	1260.4	1262.8	1263.9
7.5°	1214.4	1231.7	1247.8	1251.3	1254.7	1251.3	1250.1	1252.4	1263.9	1266.2	1266.2
10°	1202.9	1227.0	1245.5	1247.8	1251.3	1247.8	1247.8	1252.4	1263.9	1266.2	1267.4
12.5°	1186.8	1220.1	1237.4	1239.8	1244.3	1243.2	1242.0	1246.7	1258.2	1260.4	1260.4
15°	1168.3	1207.5	1223.6	1225.9	1233.9	1231.7	1231.7	1236.3	1248.9	1252.4	1251.3
17.5°	1143.0	1191.4	1209.8	1213.3	1219.0	1217.8	1219.0	1223.6	1235.1	1237.4	1238.5
20°	1114.1	1169.5	1191.4	1194.8	1200.5	1200.5	1200.5	1206.3	1217.8	1222.4	1222.4
22.5°	1075.0	1146.4	1169.5	1171.8	1178.6	1178.6	1181.0	1189.0	1199.4	1200.5	1200.5
25°	1028.9	1121.1	1140.6	1147.6	1154.5	1157.9	1161.4	1166.0	1169.5	1168.3	1169.5
27.5°	980.5	1088.8	1114.1	1118.7	1128.0	1131.5	1136.0	1137.2	1138.4	1141.8	1139.5
30°	926.4	1043.8	1081.8	1086.5	1101.5	1103.7	1099.2	1101.5	1107.2	1109.6	1111.8
32.5°	865.2	977.0	1048.4	1058.8	1072.7	1065.7	1064.6	1068.1	1077.3	1077.3	1079.6
35°	782.3	925.2	1017.4	1026.6	1036.9	1028.9	1033.4	1034.7	1040.4	1043.8	1042.7
37.5°	691.3	880.2	985.1	992.0	1000.0	989.7	996.6	1000.0	1004.7	1002.4	1002.4
40°	610.7	809.9	947.1	951.7	958.6	950.5	957.4	959.8	962.0	959.8	958.6
42.5°	550.8	732.8	906.7	912.5	907.9	913.6	916.0	920.6	917.1	912.5	912.5
45°	504.6	712.0	863.0	869.9	863.0	872.2	875.6	875.6	865.2	863.0	861.8
47.5°	489.6	670.6	819.2	819.2	815.7	827.2	833.1	824.9	814.6	811.2	811.2
50°	488.5	624.5	759.3	754.7	770.8	784.7	778.9	770.8	762.8	750.0	750.0
52.5°	443.6	568.0	682.1	699.4	724.7	732.8	723.5	715.5	701.6	695.9	691.3
55°	411.3	509.3	611.8	646.4	672.9	683.2	666.0	657.9	637.1	633.7	631.4
57.5°	404.4	424.0	547.3	591.1	623.3	622.2	611.8	596.8	579.6	576.1	574.9
60°	371.0	306.4	478.1	530.0	563.4	559.9	550.8	536.9	520.8	518.5	516.2
62.5°	336.4	222.4	399.8	458.6	505.8	504.6	496.6	475.9	464.4	458.6	454.0
65°	285.8	186.6	284.5	381.3	449.4	451.6	434.4	419.4	406.7	399.8	398.6
67.5°	217.7	152.1	192.4	318.0	395.2	392.9	371.0	364.1	347.9	344.5	337.6
70°	161.3	101.4	133.7	258.1	342.2	336.4	319.2	311.1	296.1	288.0	283.4
72.5°	133.7	81.8	97.9	200.5	288.0	281.1	266.1	256.9	244.3	237.4	232.7
75°	108.3	86.4	74.9	148.6	233.9	229.3	215.5	206.2	195.9	186.6	187.8
77.5°	79.5	80.7	59.9	109.4	185.5	178.6	170.5	159.0	154.4	145.2	145.2
80°	59.9	63.4	44.9	74.9	133.7	133.7	126.7	118.7	110.6	106.0	106.0
82.5°	40.3	40.3	33.4	47.3	91.0	87.6	82.9	80.7	76.0	73.8	73.8
85°	18.4	23.0	20.8	28.8	49.5	51.9	51.9	49.5	48.4	46.0	47.3
87.5°	5.8	10.4	12.6	16.1	25.4	26.5	27.6	27.6	27.6	28.8	28.8
90°	5.4	9.8	14.1	15.3	24.0	35.6	41.3	36.7	27.6	20.7	20.7
92.5°	21.7	58.7	95.7	105.0	147.5	204.3	232.7	204.0	146.5	103.3	99.2
95°	52.2	119.9	187.6	204.5	363.1	574.7	680.4	607.2	460.7	350.8	338.3
97.5°	90.3	150.0	209.7	224.6	489.1	841.9	1018.2	971.9	879.3	809.9	786.1
100°	119.6	173.8	227.9	241.5	535.0	926.4	1122.0	1125.4	1132.2	1137.3	1109.1
102.5°	144.7	195.2	245.7	258.4	556.1	953.0	1151.4	1210.4	1328.4	1416.9	1392.7
105°	187.1	230.0	272.7	283.4	571.6	955.9	1148.1	1280.3	1544.8	1743.2	1730.2
107.5°	230.7	270.5	310.4	320.4	574.6	913.5	1082.9	1267.3	1636.2	1912.9	1916.0
110°	260.0	296.0	332.1	341.1	570.2	875.7	1028.5	1234.7	1647.1	1956.4	1969.9



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CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	288.8	323.2	357.5	366.1	570.4	842.8	979.0	1190.1	1612.1	1928.7	1949.4
115°	332.3	364.0	395.6	403.6	575.6	805.1	919.7	1123.0	1529.6	1834.6	1863.4
117.5°	375.3	404.1	432.9	440.0	586.4	781.4	878.9	1062.4	1429.4	1704.6	1736.6
120°	400.3	427.4	454.4	461.2	595.0	773.4	862.6	1030.2	1365.5	1617.0	1648.1
122.5°	424.8	452.1	479.4	486.2	607.5	769.3	850.1	1001.1	1303.0	1529.5	1560.1
125°	462.4	487.2	512.1	518.3	624.4	765.8	836.5	964.7	1221.2	1413.6	1441.8
127.5°	492.8	517.9	543.0	549.3	641.2	763.8	825.1	935.3	1155.4	1320.6	1344.4
130°	509.1	536.1	563.2	570.0	653.6	765.0	820.8	918.8	1114.8	1261.8	1283.8
132.5°	525.9	553.0	580.1	586.9	663.5	765.8	816.9	904.6	1080.2	1211.8	1231.5
135°	551.0	575.6	600.2	606.4	674.4	765.0	810.4	883.9	1030.8	1141.1	1158.1
137.5°	576.5	600.9	625.3	631.4	690.7	769.8	809.3	871.4	995.7	1088.9	1102.8
140°	597.8	620.3	642.8	648.4	700.8	770.6	805.5	859.1	966.5	1047.0	1060.0
142.5°	614.1	634.8	655.6	660.8	709.1	773.3	805.5	852.7	946.9	1017.7	1028.8
145°	639.1	657.3	675.3	679.8	720.0	773.4	800.1	838.6	915.7	973.5	982.0
147.5°	664.1	681.8	699.4	703.8	735.9	778.7	800.1	830.4	891.0	936.6	943.5
150°	680.4	696.4	712.3	716.3	744.2	781.4	800.1	825.7	876.9	915.4	921.0
152.5°	697.3	709.4	721.4	724.5	749.7	783.3	800.1	822.0	865.8	898.5	902.8
155°	722.3	731.3	740.2	742.4	761.6	787.3	800.1	817.5	852.3	878.4	881.3
157.5°	740.8	749.5	758.1	760.3	773.6	791.3	800.1	813.6	840.6	861.0	863.0
160°	753.3	760.1	766.9	768.5	779.1	793.1	800.1	811.7	834.9	852.2	853.4
162.5°	765.8	770.9	775.9	777.2	784.8	795.0	800.1	809.9	829.5	844.1	845.2
165°	779.4	784.0	788.6	789.7	793.2	797.8	800.1	807.1	821.1	831.6	832.7
167.5°	791.9	794.1	796.3	796.8	799.7	803.6	805.5	810.1	819.3	826.2	826.7
170°	800.1	802.3	804.5	805.0	805.1	805.4	805.5	810.1	819.3	826.2	826.2
172.5°	804.5	804.9	805.4	805.5	805.5	805.5	805.5	809.2	816.4	821.8	821.4
175°	810.4	810.4	810.4	810.4	808.7	806.5	805.5	807.8	812.4	815.9	815.9
177.5°	810.4	810.4	810.4	810.4	809.2	807.5	806.6	808.5	812.0	814.7	814.2
180°	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1248.9	1245.5	1248.9	1246.7	1247.8	1244.3	1233.9	1230.5	1233.9	1237.4	1237.4
5°	1263.9	1261.7	1263.9	1263.9	1262.8	1260.4	1248.9	1246.7	1248.9	1250.1	1247.8
7.5°	1268.5	1265.1	1268.5	1266.2	1266.2	1263.9	1252.4	1250.1	1251.3	1254.7	1251.3
10°	1268.5	1265.1	1268.5	1267.4	1266.2	1263.9	1252.4	1247.8	1247.8	1251.3	1247.8
12.5°	1262.8	1260.4	1262.8	1260.4	1260.4	1258.2	1246.7	1242.0	1243.2	1244.3	1239.8
15°	1253.5	1250.1	1253.5	1251.3	1252.4	1248.9	1236.3	1231.7	1231.7	1233.9	1225.9
17.5°	1239.8	1235.1	1239.8	1238.5	1237.4	1235.1	1223.6	1219.0	1217.8	1219.0	1213.3
20°	1223.6	1220.1	1223.6	1222.4	1222.4	1217.8	1206.3	1200.5	1200.5	1200.5	1194.8
22.5°	1198.3	1194.8	1198.3	1200.5	1200.5	1199.4	1189.0	1181.0	1178.6	1178.6	1171.8
25°	1169.5	1166.0	1169.5	1169.5	1168.3	1169.5	1166.0	1161.4	1157.9	1154.5	1147.6
27.5°	1141.8	1139.5	1141.8	1139.5	1141.8	1138.4	1137.2	1136.0	1131.5	1128.0	1118.7
30°	1114.1	1111.8	1114.1	1111.8	1109.6	1107.2	1101.5	1099.2	1103.7	1101.5	1086.5
32.5°	1079.6	1077.3	1079.6	1079.6	1077.3	1077.3	1068.1	1064.6	1065.7	1072.7	1058.8
35°	1043.8	1040.4	1043.8	1042.7	1043.8	1040.4	1034.7	1033.4	1028.9	1036.9	1026.6
37.5°	1002.4	998.9	1002.4	1002.4	1002.4	1004.7	1000.0	996.6	989.7	1000.0	992.0
40°	959.8	955.1	959.8	958.6	959.8	962.0	959.8	957.4	950.5	958.6	951.7
42.5°	911.4	910.2	911.4	912.5	912.5	917.1	920.6	916.0	913.6	907.9	912.5
45°	859.5	857.2	859.5	861.8	863.0	865.2	875.6	875.6	872.2	863.0	869.9
47.5°	804.2	798.4	804.2	811.2	811.2	814.6	824.9	833.1	827.2	815.7	819.2
50°	745.4	746.6	745.4	750.0	750.0	762.8	770.8	778.9	784.7	770.8	754.7
52.5°	687.9	686.7	687.9	691.3	695.9	701.6	715.5	723.5	732.8	724.7	699.4
55°	630.2	632.6	630.2	631.4	633.7	637.1	657.9	666.0	683.2	672.9	646.4
57.5°	572.7	569.2	572.7	574.9	576.1	579.6	596.8	611.8	622.2	623.3	591.1
60°	505.8	501.2	505.8	516.2	518.5	520.8	536.9	550.8	559.9	563.4	530.0
62.5°	447.0	439.0	447.0	454.0	458.6	464.4	475.9	496.6	504.6	505.8	458.6
65°	384.8	381.3	384.8	398.6	399.8	406.7	419.4	434.4	451.6	449.4	381.3
67.5°	328.4	328.4	328.4	337.6	344.5	347.9	364.1	371.0	392.9	395.2	318.0
70°	276.5	275.4	276.5	283.4	288.0	296.1	311.1	319.2	336.4	342.2	258.1
72.5°	227.0	225.9	227.0	232.7	237.4	244.3	256.9	266.1	281.1	288.0	200.5
75°	183.2	180.9	183.2	187.8	186.6	195.9	206.2	215.5	229.3	233.9	148.6
77.5°	140.6	140.6	140.6	145.2	145.2	154.4	159.0	170.5	178.6	185.5	109.4
80°	104.8	103.7	104.8	106.0	106.0	110.6	118.7	126.7	133.7	133.7	74.9
82.5°	73.8	71.4	73.8	73.8	73.8	76.0	80.7	82.9	87.6	91.0	47.3
85°	46.0	46.0	46.0	47.3	46.0	48.4	49.5	51.9	51.9	49.5	28.8
87.5°	30.0	28.8	30.0	28.8	28.8	27.6	27.6	27.6	26.5	25.4	16.1
90°	20.7	20.7	20.7	20.7	20.7	27.6	36.7	41.3	35.6	24.0	15.3
92.5°	82.8	66.4	82.8	99.2	103.3	146.5	204.0	232.7	204.3	147.5	105.0
95°	288.6	238.8	288.6	338.3	350.8	460.7	607.2	680.4	574.7	363.1	204.5
97.5°	691.4	596.6	691.4	786.1	809.9	879.3	971.9	1018.2	841.9	489.1	224.6
100°	996.2	883.3	996.2	1109.1	1137.3	1132.2	1125.4	1122.0	926.4	535.0	241.5
102.5°	1296.0	1199.3	1296.0	1392.7	1416.9	1328.4	1210.4	1151.4	953.0	556.1	258.4
105°	1678.2	1626.3	1678.2	1730.2	1743.2	1544.8	1280.3	1148.1	955.9	571.6	283.4
107.5°	1928.6	1941.1	1928.6	1916.0	1912.9	1636.2	1267.3	1082.9	913.5	574.6	320.4
110°	2024.1	2078.2	2024.1	1969.9	1956.4	1647.1	1234.7	1028.5	875.7	570.2	341.1



TEST NUMBER: P936032

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2032.6	2115.7	2032.6	1949.4	1928.7	1612.1	1190.1	979.0	842.8	570.4	366.1
115°	1978.7	2094.0	1978.7	1863.4	1834.6	1529.6	1123.0	919.7	805.1	575.6	403.6
117.5°	1864.4	1992.2	1864.4	1736.6	1704.6	1429.4	1062.4	878.9	781.4	586.4	440.0
120°	1772.3	1896.6	1772.3	1648.1	1617.0	1365.5	1030.2	862.6	773.4	595.0	461.2
122.5°	1682.7	1805.2	1682.7	1560.1	1529.5	1303.0	1001.1	850.1	769.3	607.5	486.2
125°	1554.7	1667.6	1554.7	1441.8	1413.6	1221.2	964.7	836.5	765.8	624.4	518.3
127.5°	1439.6	1534.9	1439.6	1344.4	1320.6	1155.4	935.3	825.1	763.8	641.2	549.3
130°	1371.8	1459.8	1371.8	1283.8	1261.8	1114.8	918.8	820.8	765.0	653.6	570.0
132.5°	1310.2	1389.1	1310.2	1231.5	1211.8	1080.2	904.6	816.9	765.8	663.5	586.9
135°	1226.0	1293.9	1226.0	1158.1	1141.1	1030.8	883.9	810.4	765.0	674.4	606.4
137.5°	1158.4	1214.0	1158.4	1102.8	1088.9	995.7	871.4	809.3	769.8	690.7	631.4
140°	1111.9	1163.9	1111.9	1060.0	1047.0	966.5	859.1	805.5	770.6	700.8	648.4
142.5°	1073.6	1118.2	1073.6	1028.8	1017.7	946.9	852.7	805.5	773.3	709.1	660.8
145°	1015.9	1049.8	1015.9	982.0	973.5	915.7	838.6	800.1	773.4	720.0	679.8
147.5°	971.6	999.7	971.6	943.5	936.6	891.0	830.4	800.1	778.7	735.9	703.8
150°	943.8	966.5	943.8	921.0	915.4	876.9	825.7	800.1	781.4	744.2	716.3
152.5°	920.0	937.1	920.0	902.8	898.5	865.8	822.0	800.1	783.3	749.7	724.5
155°	892.6	904.0	892.6	881.3	878.4	852.3	817.5	800.1	787.3	761.6	742.4
157.5°	870.9	878.9	870.9	863.0	861.0	840.6	813.6	800.1	791.3	773.6	760.3
160°	858.0	862.6	858.0	853.4	852.2	834.9	811.7	800.1	793.1	779.1	768.5
162.5°	849.5	853.9	849.5	845.2	844.1	829.5	809.9	800.1	795.0	784.8	777.2
165°	837.3	841.9	837.3	832.7	831.6	821.1	807.1	800.1	797.8	793.2	789.7
167.5°	828.6	830.5	828.6	826.7	826.2	819.3	810.1	805.5	803.6	799.7	796.8
170°	826.2	826.2	826.2	826.2	826.2	819.3	810.1	805.5	805.4	805.1	805.0
172.5°	819.7	818.1	819.7	821.4	821.8	816.4	809.2	805.5	805.5	805.5	805.5
175°	815.9	815.9	815.9	815.9	815.9	812.4	807.8	805.5	806.5	808.7	810.4
177.5°	812.3	810.4	812.3	814.2	814.7	812.0	808.5	806.6	807.5	809.2	810.4
180°	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4



TEST NUMBER: P936032

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1235.1	1228.2	1228.2	1216.7	1212.0	1208.6	1202.9	1185.6	1181.0	1176.4	1183.3
5°	1245.5	1232.8	1223.6	1202.9	1185.6	1178.6	1156.8	1115.3	1087.6	1066.9	1055.4
7.5°	1247.8	1231.7	1214.4	1182.1	1140.6	1122.2	1055.4	979.4	958.6	940.1	928.6
10°	1245.5	1227.0	1202.9	1154.5	1056.6	1024.3	957.4	907.9	895.2	891.7	895.2
12.5°	1237.4	1220.1	1186.8	1106.1	969.0	947.1	907.9	879.1	876.8	882.6	913.6
15°	1223.6	1207.5	1168.3	1041.6	920.6	904.5	876.8	866.5	879.1	919.4	1012.8
17.5°	1209.8	1191.4	1143.0	978.2	883.7	872.2	852.6	873.3	944.8	998.9	1030.0
20°	1191.4	1169.5	1114.1	932.1	857.2	846.8	837.6	931.0	985.1	1004.7	1021.9
22.5°	1169.5	1146.4	1075.0	899.9	829.6	821.5	827.2	963.2	985.1	998.9	1013.9
25°	1140.6	1121.1	1028.9	874.5	807.7	798.4	820.3	959.8	972.4	975.9	1005.8
27.5°	1114.1	1088.8	980.5	851.5	781.2	777.7	826.1	944.8	954.0	957.4	989.7
30°	1081.8	1043.8	926.4	827.2	753.5	752.4	827.2	926.4	924.0	933.3	965.5
32.5°	1048.4	977.0	865.2	797.3	727.0	725.9	819.2	898.7	896.4	909.1	933.3
35°	1017.4	925.2	782.3	762.8	693.6	694.7	799.6	866.5	867.6	879.1	894.1
37.5°	985.1	880.2	691.3	724.7	661.4	661.4	773.1	836.5	834.2	837.6	858.3
40°	947.1	809.9	610.7	675.1	631.4	628.0	740.9	804.2	796.2	795.0	823.8
42.5°	906.7	732.8	550.8	609.5	596.8	592.2	701.6	765.0	750.0	753.5	790.4
45°	863.0	712.0	504.6	515.0	561.1	557.7	659.0	720.1	709.7	719.0	757.0
47.5°	819.2	670.6	489.6	427.5	523.0	521.9	611.8	676.3	670.6	679.8	720.1
50°	759.3	624.5	488.5	366.4	480.5	485.0	555.3	633.7	633.7	641.7	684.4
52.5°	682.1	568.0	443.6	331.8	430.9	444.7	505.8	596.8	599.1	607.2	645.2
55°	611.8	509.3	411.3	305.3	372.2	402.1	457.4	558.8	563.4	571.4	606.1
57.5°	547.3	424.0	404.4	274.3	318.0	346.8	414.7	521.9	524.3	531.2	564.6
60°	478.1	306.4	371.0	240.8	270.8	292.7	375.6	478.1	486.2	490.8	519.6
62.5°	399.8	222.4	336.4	217.7	247.7	252.4	343.3	436.6	447.0	450.5	467.8
65°	284.5	186.6	285.8	198.2	223.5	224.6	308.8	394.1	403.2	409.0	421.7
67.5°	192.4	152.1	217.7	179.7	205.1	206.2	275.4	344.5	357.2	361.8	369.8
70°	133.7	101.4	161.3	160.2	184.3	186.6	239.6	299.5	311.1	314.5	319.2
72.5°	97.9	81.8	133.7	144.1	162.5	164.7	202.7	248.9	260.4	263.9	266.1
75°	74.9	86.4	108.3	125.6	138.2	139.4	165.9	202.7	210.9	213.1	214.3
77.5°	59.9	80.7	79.5	101.4	112.9	110.6	130.2	156.7	163.6	163.6	163.6
80°	44.9	63.4	59.9	72.6	82.9	80.7	93.3	111.8	114.1	116.3	115.2
82.5°	33.4	40.3	40.3	46.0	55.3	53.0	62.2	72.6	72.6	72.6	74.9
85°	20.8	23.0	18.4	24.2	31.1	30.0	34.5	39.2	40.3	40.3	38.0
87.5°	12.6	10.4	5.8	9.2	13.9	13.9	16.1	17.3	16.1	16.1	16.1
90°	14.1	9.8	5.4	9.8	14.1	15.3	24.0	35.6	41.3	36.7	27.6
92.5°	95.7	58.7	21.7	58.7	95.7	105.0	147.5	204.3	232.7	204.0	146.5
95°	187.6	119.9	52.2	119.9	187.6	204.5	363.1	574.7	680.4	607.2	460.7
97.5°	209.7	150.0	90.3	150.0	209.7	224.6	489.1	841.9	1018.2	971.9	879.3
100°	227.9	173.8	119.6	173.8	227.9	241.5	535.0	926.4	1122.0	1125.4	1132.2
102.5°	245.7	195.2	144.7	195.2	245.7	258.4	556.1	953.0	1151.4	1210.4	1328.4
105°	272.7	230.0	187.1	230.0	272.7	283.4	571.6	955.9	1148.1	1280.3	1544.8
107.5°	310.4	270.5	230.7	270.5	310.4	320.4	574.6	913.5	1082.9	1267.3	1636.2
110°	332.1	296.0	260.0	296.0	332.1	341.1	570.2	875.7	1028.5	1234.7	1647.1



TEST NUMBER: P936032

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	357.5	323.2	288.8	323.2	357.5	366.1	570.4	842.8	979.0	1190.1	1612.1
115°	395.6	364.0	332.3	364.0	395.6	403.6	575.6	805.1	919.7	1123.0	1529.6
117.5°	432.9	404.1	375.3	404.1	432.9	440.0	586.4	781.4	878.9	1062.4	1429.4
120°	454.4	427.4	400.3	427.4	454.4	461.2	595.0	773.4	862.6	1030.2	1365.5
122.5°	479.4	452.1	424.8	452.1	479.4	486.2	607.5	769.3	850.1	1001.1	1303.0
125°	512.1	487.2	462.4	487.2	512.1	518.3	624.4	765.8	836.5	964.7	1221.2
127.5°	543.0	517.9	492.8	517.9	543.0	549.3	641.2	763.8	825.1	935.3	1155.4
130°	563.2	536.1	509.1	536.1	563.2	570.0	653.6	765.0	820.8	918.8	1114.8
132.5°	580.1	553.0	525.9	553.0	580.1	586.9	663.5	765.8	816.9	904.6	1080.2
135°	600.2	575.6	551.0	575.6	600.2	606.4	674.4	765.0	810.4	883.9	1030.8
137.5°	625.3	600.9	576.5	600.9	625.3	631.4	690.7	769.8	809.3	871.4	995.7
140°	642.8	620.3	597.8	620.3	642.8	648.4	700.8	770.6	805.5	859.1	966.5
142.5°	655.6	634.8	614.1	634.8	655.6	660.8	709.1	773.3	805.5	852.7	946.9
145°	675.3	657.3	639.1	657.3	675.3	679.8	720.0	773.4	800.1	838.6	915.7
147.5°	699.4	681.8	664.1	681.8	699.4	703.8	735.9	778.7	800.1	830.4	891.0
150°	712.3	696.4	680.4	696.4	712.3	716.3	744.2	781.4	800.1	825.7	876.9
152.5°	721.4	709.4	697.3	709.4	721.4	724.5	749.7	783.3	800.1	822.0	865.8
155°	740.2	731.3	722.3	731.3	740.2	742.4	761.6	787.3	800.1	817.5	852.3
157.5°	758.1	749.5	740.8	749.5	758.1	760.3	773.6	791.3	800.1	813.6	840.6
160°	766.9	760.1	753.3	760.1	766.9	768.5	779.1	793.1	800.1	811.7	834.9
162.5°	775.9	770.9	765.8	770.9	775.9	777.2	784.8	795.0	800.1	809.9	829.5
165°	788.6	784.0	779.4	784.0	788.6	789.7	793.2	797.8	800.1	807.1	821.1
167.5°	796.3	794.1	791.9	794.1	796.3	796.8	799.7	803.6	805.5	810.1	819.3
170°	804.5	802.3	800.1	802.3	804.5	805.0	805.1	805.4	805.5	810.1	819.3
172.5°	805.4	804.9	804.5	804.9	805.4	805.5	805.5	805.5	805.5	809.2	816.4
175°	810.4	810.4	810.4	810.4	810.4	810.4	808.7	806.5	805.5	807.8	812.4
177.5°	810.4	810.4	810.4	810.4	810.4	810.4	809.2	807.5	806.6	808.5	812.0
180°	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4



TEST NUMBER: P936032

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1175.2	1171.8	1176.4	1163.6	1176.4	1171.8	1175.2	1183.3	1176.4	1181.0	1185.6
5°	1031.2	1025.4	1007.0	992.0	1007.0	1025.4	1031.2	1055.4	1066.9	1087.6	1115.3
7.5°	921.7	917.1	912.5	903.3	912.5	917.1	921.7	928.6	940.1	958.6	979.4
10°	897.5	898.7	905.6	904.5	905.6	898.7	897.5	895.2	891.7	895.2	907.9
12.5°	959.8	970.1	1008.2	1005.8	1008.2	970.1	959.8	913.6	882.6	876.8	879.1
15°	1031.2	1034.7	1042.7	1043.8	1042.7	1034.7	1031.2	1012.8	919.4	879.1	866.5
17.5°	1038.1	1039.3	1045.0	1045.0	1045.0	1039.3	1038.1	1030.0	998.9	944.8	873.3
20°	1032.3	1034.7	1046.2	1048.4	1046.2	1034.7	1032.3	1021.9	1004.7	985.1	931.0
22.5°	1030.0	1034.7	1043.8	1042.7	1043.8	1034.7	1030.0	1013.9	998.9	985.1	963.2
25°	1018.5	1018.5	1019.7	1020.8	1019.7	1018.5	1018.5	1005.8	975.9	972.4	959.8
27.5°	994.3	996.6	1003.5	1002.4	1003.5	996.6	994.3	989.7	957.4	954.0	944.8
30°	972.4	970.1	964.4	959.8	964.4	970.1	972.4	965.5	933.3	924.0	926.4
32.5°	935.5	929.8	924.0	920.6	924.0	929.8	935.5	933.3	909.1	896.4	898.7
35°	891.7	893.0	891.7	888.3	891.7	893.0	891.7	894.1	879.1	867.6	866.5
37.5°	860.7	863.0	861.8	857.2	861.8	863.0	860.7	858.3	837.6	834.2	836.5
40°	828.4	829.6	828.4	824.9	828.4	829.6	828.4	823.8	795.0	796.2	804.2
42.5°	797.3	796.2	792.7	790.4	792.7	796.2	797.3	790.4	753.5	750.0	765.0
45°	761.5	762.8	755.8	752.4	755.8	762.8	761.5	757.0	719.0	709.7	720.1
47.5°	725.9	725.9	720.1	716.6	720.1	725.9	725.9	720.1	679.8	670.6	676.3
50°	687.9	686.7	678.6	677.5	678.6	686.7	687.9	684.4	641.7	633.7	633.7
52.5°	644.1	644.1	645.2	647.5	645.2	644.1	644.1	645.2	607.2	599.1	596.8
55°	606.1	607.2	615.2	617.6	615.2	607.2	606.1	606.1	571.4	563.4	558.8
57.5°	566.8	566.8	572.7	572.7	572.7	566.8	566.8	564.6	531.2	524.3	521.9
60°	521.9	524.3	528.8	527.7	528.8	524.3	521.9	519.6	490.8	486.2	478.1
62.5°	474.6	477.0	478.1	475.9	478.1	477.0	474.6	467.8	450.5	447.0	436.6
65°	425.1	427.5	428.6	426.3	428.6	427.5	425.1	421.7	409.0	403.2	394.1
67.5°	374.5	373.3	372.2	376.7	372.2	373.3	374.5	369.8	361.8	357.2	344.5
70°	322.6	322.6	321.4	323.8	321.4	322.6	322.6	319.2	314.5	311.1	299.5
72.5°	267.3	266.1	270.8	267.3	270.8	266.1	267.3	266.1	263.9	260.4	248.9
75°	213.1	215.5	213.1	216.6	213.1	215.5	213.1	214.3	213.1	210.9	202.7
77.5°	162.5	164.7	162.5	162.5	162.5	164.7	162.5	163.6	163.6	163.6	156.7
80°	115.2	114.1	114.1	112.9	114.1	114.1	115.2	115.2	116.3	114.1	111.8
82.5°	73.8	72.6	72.6	74.9	72.6	72.6	73.8	74.9	72.6	72.6	72.6
85°	40.3	41.5	39.2	39.2	39.2	41.5	40.3	38.0	40.3	40.3	39.2
87.5°	15.0	13.9	13.9	13.9	13.9	13.9	15.0	16.1	16.1	16.1	17.3
90°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	27.6	36.7	41.3	35.6
92.5°	103.3	99.2	82.8	66.4	82.8	99.2	103.3	146.5	204.0	232.7	204.3
95°	350.8	338.3	288.6	238.8	288.6	338.3	350.8	460.7	607.2	680.4	574.7
97.5°	809.9	786.1	691.4	596.6	691.4	786.1	809.9	879.3	971.9	1018.2	841.9
100°	1137.3	1109.1	996.2	883.3	996.2	1109.1	1137.3	1132.2	1125.4	1122.0	926.4
102.5°	1416.9	1392.7	1296.0	1199.3	1296.0	1392.7	1416.9	1328.4	1210.4	1151.4	953.0
105°	1743.2	1730.2	1678.2	1626.3	1678.2	1730.2	1743.2	1544.8	1280.3	1148.1	955.9
107.5°	1912.9	1916.0	1928.6	1941.1	1928.6	1916.0	1912.9	1636.2	1267.3	1082.9	913.5
110°	1956.4	1969.9	2024.1	2078.2	2024.1	1969.9	1956.4	1647.1	1234.7	1028.5	875.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1928.7	1949.4	2032.6	2115.7	2032.6	1949.4	1928.7	1612.1	1190.1	979.0	842.8
115°	1834.6	1863.4	1978.7	2094.0	1978.7	1863.4	1834.6	1529.6	1123.0	919.7	805.1
117.5°	1704.6	1736.6	1864.4	1992.2	1864.4	1736.6	1704.6	1429.4	1062.4	878.9	781.4
120°	1617.0	1648.1	1772.3	1896.6	1772.3	1648.1	1617.0	1365.5	1030.2	862.6	773.4
122.5°	1529.5	1560.1	1682.7	1805.2	1682.7	1560.1	1529.5	1303.0	1001.1	850.1	769.3
125°	1413.6	1441.8	1554.7	1667.6	1554.7	1441.8	1413.6	1221.2	964.7	836.5	765.8
127.5°	1320.6	1344.4	1439.6	1534.9	1439.6	1344.4	1320.6	1155.4	935.3	825.1	763.8
130°	1261.8	1283.8	1371.8	1459.8	1371.8	1283.8	1261.8	1114.8	918.8	820.8	765.0
132.5°	1211.8	1231.5	1310.2	1389.1	1310.2	1231.5	1211.8	1080.2	904.6	816.9	765.8
135°	1141.1	1158.1	1226.0	1293.9	1226.0	1158.1	1141.1	1030.8	883.9	810.4	765.0
137.5°	1088.9	1102.8	1158.4	1214.0	1158.4	1102.8	1088.9	995.7	871.4	809.3	769.8
140°	1047.0	1060.0	1111.9	1163.9	1111.9	1060.0	1047.0	966.5	859.1	805.5	770.6
142.5°	1017.7	1028.8	1073.6	1118.2	1073.6	1028.8	1017.7	946.9	852.7	805.5	773.3
145°	973.5	982.0	1015.9	1049.8	1015.9	982.0	973.5	915.7	838.6	800.1	773.4
147.5°	936.6	943.5	971.6	999.7	971.6	943.5	936.6	891.0	830.4	800.1	778.7
150°	915.4	921.0	943.8	966.5	943.8	921.0	915.4	876.9	825.7	800.1	781.4
152.5°	898.5	902.8	920.0	937.1	920.0	902.8	898.5	865.8	822.0	800.1	783.3
155°	878.4	881.3	892.6	904.0	892.6	881.3	878.4	852.3	817.5	800.1	787.3
157.5°	861.0	863.0	870.9	878.9	870.9	863.0	861.0	840.6	813.6	800.1	791.3
160°	852.2	853.4	858.0	862.6	858.0	853.4	852.2	834.9	811.7	800.1	793.1
162.5°	844.1	845.2	849.5	853.9	849.5	845.2	844.1	829.5	809.9	800.1	795.0
165°	831.6	832.7	837.3	841.9	837.3	832.7	831.6	821.1	807.1	800.1	797.8
167.5°	826.2	826.7	828.6	830.5	828.6	826.7	826.2	819.3	810.1	805.5	803.6
170°	826.2	826.2	826.2	826.2	826.2	826.2	826.2	819.3	810.1	805.5	805.4
172.5°	821.8	821.4	819.7	818.1	819.7	821.4	821.8	816.4	809.2	805.5	805.5
175°	815.9	815.9	815.9	815.9	815.9	815.9	815.9	812.4	807.8	805.5	806.5
177.5°	814.7	814.2	812.3	810.4	812.3	814.2	814.7	812.0	808.5	806.6	807.5
180°	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1202.9	1208.6	1212.0	1216.7	1228.2
5°	1156.8	1178.6	1185.6	1202.9	1223.6
7.5°	1055.4	1122.2	1140.6	1182.1	1214.4
10°	957.4	1024.3	1056.6	1154.5	1202.9
12.5°	907.9	947.1	969.0	1106.1	1186.8
15°	876.8	904.5	920.6	1041.6	1168.3
17.5°	852.6	872.2	883.7	978.2	1143.0
20°	837.6	846.8	857.2	932.1	1114.1
22.5°	827.2	821.5	829.6	899.9	1075.0
25°	820.3	798.4	807.7	874.5	1028.9
27.5°	826.1	777.7	781.2	851.5	980.5
30°	827.2	752.4	753.5	827.2	926.4
32.5°	819.2	725.9	727.0	797.3	865.2
35°	799.6	694.7	693.6	762.8	782.3
37.5°	773.1	661.4	661.4	724.7	691.3
40°	740.9	628.0	631.4	675.1	610.7
42.5°	701.6	592.2	596.8	609.5	550.8
45°	659.0	557.7	561.1	515.0	504.6
47.5°	611.8	521.9	523.0	427.5	489.6
50°	555.3	485.0	480.5	366.4	488.5
52.5°	505.8	444.7	430.9	331.8	443.6
55°	457.4	402.1	372.2	305.3	411.3
57.5°	414.7	346.8	318.0	274.3	404.4
60°	375.6	292.7	270.8	240.8	371.0
62.5°	343.3	252.4	247.7	217.7	336.4
65°	308.8	224.6	223.5	198.2	285.8
67.5°	275.4	206.2	205.1	179.7	217.7
70°	239.6	186.6	184.3	160.2	161.3
72.5°	202.7	164.7	162.5	144.1	133.7
75°	165.9	139.4	138.2	125.6	108.3
77.5°	130.2	110.6	112.9	101.4	79.5
80°	93.3	80.7	82.9	72.6	59.9
82.5°	62.2	53.0	55.3	46.0	40.3
85°	34.5	30.0	31.1	24.2	18.4
87.5°	16.1	13.9	13.9	9.2	5.8
90°	24.0	15.3	14.1	9.8	5.4
92.5°	147.5	105.0	95.7	58.7	21.7
95°	363.1	204.5	187.6	119.9	52.2
97.5°	489.1	224.6	209.7	150.0	90.3
100°	535.0	241.5	227.9	173.8	119.6
102.5°	556.1	258.4	245.7	195.2	144.7
105°	571.6	283.4	272.7	230.0	187.1
107.5°	574.6	320.4	310.4	270.5	230.7
110°	570.2	341.1	332.1	296.0	260.0



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CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	570.4	366.1	357.5	323.2	288.8
115°	575.6	403.6	395.6	364.0	332.3
117.5°	586.4	440.0	432.9	404.1	375.3
120°	595.0	461.2	454.4	427.4	400.3
122.5°	607.5	486.2	479.4	452.1	424.8
125°	624.4	518.3	512.1	487.2	462.4
127.5°	641.2	549.3	543.0	517.9	492.8
130°	653.6	570.0	563.2	536.1	509.1
132.5°	663.5	586.9	580.1	553.0	525.9
135°	674.4	606.4	600.2	575.6	551.0
137.5°	690.7	631.4	625.3	600.9	576.5
140°	700.8	648.4	642.8	620.3	597.8
142.5°	709.1	660.8	655.6	634.8	614.1
145°	720.0	679.8	675.3	657.3	639.1
147.5°	735.9	703.8	699.4	681.8	664.1
150°	744.2	716.3	712.3	696.4	680.4
152.5°	749.7	724.5	721.4	709.4	697.3
155°	761.6	742.4	740.2	731.3	722.3
157.5°	773.6	760.3	758.1	749.5	740.8
160°	779.1	768.5	766.9	760.1	753.3
162.5°	784.8	777.2	775.9	770.9	765.8
165°	793.2	789.7	788.6	784.0	779.4
167.5°	799.7	796.8	796.3	794.1	791.9
170°	805.1	805.0	804.5	802.3	800.1
172.5°	805.5	805.5	805.4	804.9	804.5
175°	808.7	810.4	810.4	810.4	810.4
177.5°	809.2	810.4	810.4	810.4	810.4
180°	810.4	810.4	810.4	810.4	810.4



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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	11.95	12.71	13.00	13.77	15.20	14.74	15.50	15.80	16.56	18.00
	3H	12.42	13.10	13.48	14.16	15.62	16.07	16.75	17.14	17.82	19.28
	4H	12.60	13.25	13.68	14.32	15.78	16.50	17.15	17.58	18.22	19.68
	6H	12.72	13.31	13.80	14.38	15.86	16.78	17.37	17.86	18.44	19.92
	8H	12.71	13.28	13.81	14.37	15.84	16.84	17.41	17.93	18.50	19.97
	12H	12.68	13.22	13.78	14.30	15.80	16.87	17.41	17.97	18.49	19.99
4H	2H	12.96	13.60	14.04	14.67	16.14	15.14	15.79	16.23	16.86	18.32
	3H	13.97	14.51	15.07	15.61	17.09	16.63	17.17	17.72	18.26	19.74
	4H	14.25	14.74	15.34	15.83	17.33	17.15	17.64	18.24	18.73	20.22
	6H	14.37	14.79	15.47	15.90	17.39	17.50	17.92	18.60	19.03	20.52
	8H	14.37	14.76	15.48	15.87	17.38	17.60	17.99	18.70	19.09	20.60
	12H	14.33	14.69	15.45	15.81	17.32	17.64	18.00	18.77	19.12	20.63
8H	4H	14.69	15.08	15.79	16.19	17.69	17.26	17.66	18.37	18.76	20.27
	6H	14.94	15.27	16.07	16.42	17.92	17.69	18.01	18.81	19.16	20.66
	8H	14.99	15.27	16.12	16.40	17.92	17.83	18.12	18.97	19.24	20.77
	12H	14.97	15.22	16.10	16.34	17.90	17.92	18.17	19.06	19.29	20.85
12H	4H	14.69	15.05	15.81	16.16	17.67	17.22	17.58	18.34	18.70	20.21
	6H	15.00	15.29	16.14	16.42	17.94	17.68	17.97	18.82	19.10	20.62
	8H	15.06	15.32	16.20	16.44	18.00	17.83	18.09	18.97	19.21	20.77