

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: P935842

Luminaire Tested: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-6500K

Issue Date: 12/17/2024

**Test Information**

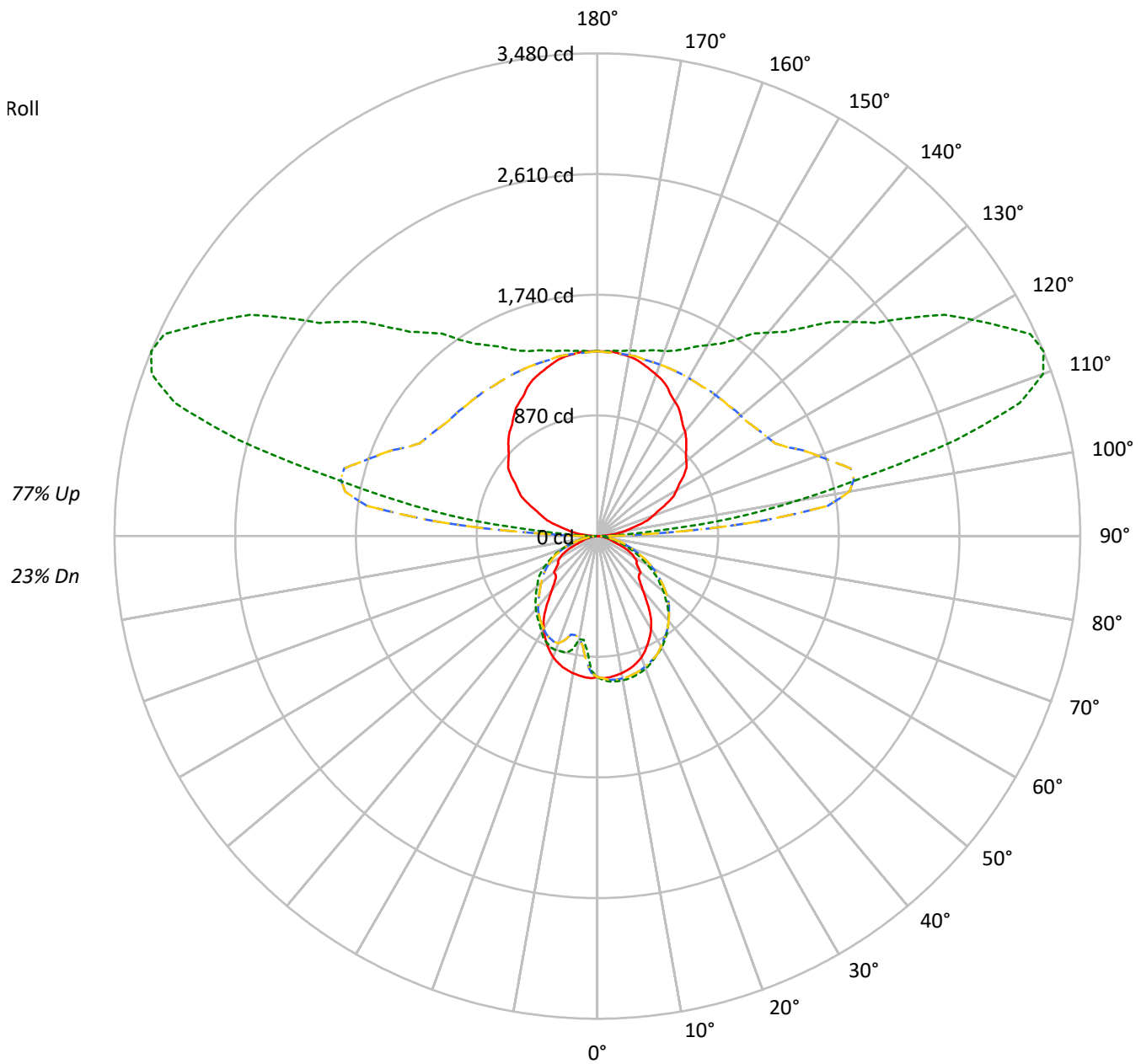
Test Method: LM-79-2019  
Report Number: P935842  
REPORT IS A COMBINATION OF REPORTS P933771 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-6500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11282.1 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 83.4  
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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

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

	0°	90°	180°	270°
0°	6289	6289	6289	6289
5°	6334	6349	6334	4992
10°	6289	6254	6289	4471
15°	6219	6119	6219	5109
20°	6087	5958	6087	5120
25°	5817	5724	5817	5012
30°	5472	5530	5472	4773
35°	4876	5284	4876	4511
40°	4060	4995	4060	4313
45°	3625	4655	3625	4086
50°	3848	4251	3848	3858
55°	3618	3816	3618	3726
60°	3724	3241	3724	3412
65°	3372	2679	3372	2995
70°	2328	2135	2328	2510
75°	2036	1578	2036	1890
80°	1627	1043	1627	1137
85°	918	552	918	470

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5560 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.8	0.8
10°-20°	260.6	2.3
20°-30°	402.8	3.6
30°-40°	480.9	4.3
40°-50°	483.7	4.3
50°-60°	420.9	3.7
60°-70°	298.4	2.6
70°-80°	157.9	1.4
80°-90°	44.4	0.4
90°-100°	649.8	5.8
100°-110°	1708.2	15.1
110°-120°	1771.2	15.7
120°-130°	1420.7	12.6
130°-140°	1114.8	9.9
140°-150°	855.6	7.6
150°-160°	616.2	5.5
160°-170°	377.0	3.3
170°-180°	127.4	1.1
0°-30°	755.2	6.7
0°-40°	1236.1	11.0
0°-60°	2140.6	19.0
0°-90°	2641.3	23.4
90°-120°	4129.1	36.6
90°-150°	7520.2	66.7
90°-180°	8641.0	76.6
0°-180°	11282.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1017	1017	1017	1017	1017	
5°	1022	1053	1022	828	1022	97
15°	975	1044	975	872	975	274
25°	859	974	859	852	859	394
35°	653	869	653	742	653	404
45°	421	716	421	628	421	337
55°	343	528	343	516	343	316
65°	239	318	239	356	239	228
75°	90	151	90	181	90	95
85°	15	38	15	33	15	21
90°	9	34	9	34	9	8
95°	86	393	86	393	86	95
105°	308	2675	308	2675	308	326
115°	547	3444	547	3444	547	540
125°	760	2743	760	2743	760	675
135°	906	2128	906	2128	906	701
145°	1051	1726	1051	1726	1051	659
155°	1188	1487	1188	1487	1188	546
165°	1282	1385	1282	1385	1282	362
175°	1333	1342	1333	1342	1333	127
180°	1333	1333	1333	1333	1333	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1025.4	1025.4	1031.2	1033.1	1033.1	1030.2	1027.3	1030.2	1038.9	1041.8	1040.8
5°	1021.5	1029.2	1039.9	1041.8	1043.7	1042.7	1040.8	1042.7	1052.3	1054.3	1055.3
7.5°	1013.9	1028.3	1041.8	1044.6	1047.5	1044.6	1043.7	1045.6	1055.3	1057.2	1057.2
10°	1004.2	1024.5	1039.9	1041.8	1044.6	1041.8	1041.8	1045.6	1055.3	1057.2	1058.1
12.5°	990.8	1018.6	1033.1	1035.0	1038.9	1037.9	1036.9	1040.8	1050.4	1052.3	1052.3
15°	975.4	1008.1	1021.5	1023.5	1030.2	1028.3	1028.3	1032.1	1042.7	1045.6	1044.6
17.5°	954.2	994.6	1010.0	1012.9	1017.7	1016.7	1017.7	1021.5	1031.2	1033.1	1034.0
20°	930.2	976.4	994.6	997.5	1002.3	1002.3	1002.3	1007.2	1016.7	1020.5	1020.5
22.5°	897.5	957.1	976.4	978.3	984.0	984.0	985.9	992.7	1001.3	1002.3	1002.3
25°	858.9	935.9	952.3	958.1	963.8	966.7	969.6	973.5	976.4	975.4	976.4
27.5°	818.6	909.0	930.2	934.0	941.8	944.6	948.4	949.4	950.4	953.2	951.3
30°	773.4	871.5	903.2	907.0	919.6	921.5	917.7	919.6	924.4	926.4	928.3
32.5°	722.4	815.7	875.3	884.0	895.6	889.7	888.8	891.6	899.4	899.4	901.3
35°	653.2	772.4	849.4	857.0	865.7	858.9	862.9	863.8	868.6	871.5	870.5
37.5°	577.2	734.9	822.4	828.2	834.9	826.2	832.1	834.9	838.8	836.9	836.9
40°	509.8	676.2	790.7	794.5	800.3	793.5	799.4	801.3	803.2	801.3	800.3
42.5°	459.8	611.8	757.0	761.8	758.0	762.8	764.8	768.6	765.7	761.8	761.8
45°	421.3	594.5	720.5	726.2	720.5	728.1	731.0	731.0	722.4	720.5	719.5
47.5°	408.8	559.9	684.0	684.0	681.0	690.7	695.4	688.7	680.0	677.2	677.2
50°	407.8	521.3	633.9	630.0	643.5	655.1	650.2	643.5	636.8	626.2	626.2
52.5°	370.3	474.2	569.4	583.9	605.1	611.8	604.1	597.3	585.8	581.0	577.2
55°	343.4	425.1	510.8	539.7	561.8	570.4	556.0	549.2	531.9	529.1	527.1
57.5°	337.6	354.0	456.9	493.5	520.4	519.4	510.8	498.3	483.8	481.0	480.0
60°	309.7	255.9	399.2	442.5	470.4	467.5	459.8	448.3	434.8	432.9	431.0
62.5°	280.8	185.7	333.8	382.9	422.3	421.3	414.6	397.3	387.6	382.9	379.0
65°	238.6	155.9	237.6	318.4	375.1	377.0	362.7	350.2	339.5	333.8	332.9
67.5°	181.8	127.0	160.6	265.5	330.0	328.0	309.7	304.0	290.5	287.6	281.9
70°	134.6	84.6	111.6	215.4	285.7	280.8	266.5	259.7	247.2	240.5	236.7
72.5°	111.6	68.3	81.8	167.3	240.5	234.7	222.2	214.5	204.0	198.1	194.3
75°	90.5	72.1	62.5	124.1	195.3	191.4	179.9	172.2	163.5	155.9	156.8
77.5°	66.4	67.3	50.0	91.4	154.9	149.1	142.4	132.7	128.9	121.2	121.2
80°	50.0	52.9	37.5	62.5	111.6	111.6	105.9	99.1	92.4	88.5	88.5
82.5°	33.7	33.7	27.9	39.4	76.0	73.1	69.2	67.3	63.5	61.6	61.6
85°	15.4	19.2	17.3	24.0	41.4	43.3	43.3	41.4	40.4	38.4	39.4
87.5°	4.8	8.7	10.6	13.5	21.1	22.1	23.0	23.0	23.0	24.0	24.0
90°	9.0	16.2	23.2	25.1	39.4	58.4	68.0	60.4	45.3	34.0	34.0
92.5°	35.8	96.6	157.5	172.7	242.8	336.2	382.9	335.5	241.0	170.0	163.2
95°	85.9	197.2	308.6	336.4	597.3	945.2	1119.1	998.6	757.7	577.0	556.5
97.5°	148.5	246.7	344.9	369.5	804.5	1384.7	1674.7	1598.6	1446.2	1332.1	1293.1
100°	196.8	285.9	374.9	397.2	880.0	1523.7	1845.5	1851.1	1862.3	1870.6	1824.2
102.5°	238.0	321.1	404.2	424.9	914.6	1567.4	1893.8	1990.8	2184.8	2330.3	2290.6
105°	307.7	378.1	448.5	466.0	940.2	1572.4	1888.5	2105.9	2540.9	2867.1	2845.7
107.5°	379.3	444.9	510.5	526.9	944.9	1502.4	1781.1	2084.5	2691.2	3146.3	3151.4
110°	427.6	486.9	546.1	560.9	937.8	1440.3	1691.6	2030.8	2709.1	3217.8	3240.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	475.0	531.5	587.9	602.0	938.1	1386.2	1610.2	1957.3	2651.5	3172.2	3206.4
115°	546.6	598.7	650.8	663.8	946.7	1324.0	1512.7	1847.1	2515.8	3017.4	3064.8
117.5°	617.2	664.6	711.9	723.7	964.4	1285.2	1445.7	1747.4	2350.9	2803.6	2856.1
120°	658.4	703.0	747.6	758.6	978.7	1272.1	1418.8	1694.6	2246.0	2659.6	2710.6
122.5°	698.7	743.6	788.6	799.8	999.2	1265.2	1398.2	1646.6	2143.1	2515.6	2565.9
125°	760.4	801.3	842.3	852.5	1027.0	1259.6	1375.9	1586.8	2008.6	2325.0	2371.4
127.5°	810.5	851.8	893.2	903.5	1054.7	1256.2	1357.0	1538.1	1900.3	2172.0	2211.2
130°	837.3	881.9	926.5	937.5	1075.0	1258.3	1350.0	1511.2	1833.6	2075.4	2111.6
132.5°	865.1	909.6	954.2	965.3	1091.4	1259.6	1343.6	1487.9	1776.6	1993.1	2025.5
135°	906.2	946.7	987.4	997.5	1109.3	1258.3	1332.9	1453.8	1695.5	1876.8	1904.7
137.5°	948.3	988.4	1028.6	1038.6	1136.1	1266.1	1331.1	1433.3	1637.7	1790.9	1813.8
140°	983.2	1020.2	1057.1	1066.3	1152.5	1267.4	1324.9	1413.2	1589.7	1722.1	1743.4
142.5°	1009.9	1044.2	1078.4	1086.9	1166.3	1272.0	1324.9	1402.4	1557.4	1673.7	1692.1
145°	1051.1	1081.0	1110.8	1118.3	1184.1	1272.0	1315.9	1379.3	1506.2	1601.3	1615.2
147.5°	1092.3	1121.3	1150.3	1157.6	1210.3	1280.7	1315.9	1365.8	1465.6	1540.4	1552.0
150°	1119.1	1145.3	1171.5	1178.1	1224.0	1285.3	1315.9	1358.1	1442.3	1505.5	1514.9
152.5°	1146.9	1166.7	1186.6	1191.6	1233.0	1288.3	1315.9	1351.9	1423.9	1477.8	1484.9
155°	1188.0	1202.7	1217.4	1221.1	1252.7	1294.9	1315.9	1344.5	1401.8	1444.7	1449.4
157.5°	1218.4	1232.7	1247.1	1250.6	1272.4	1301.4	1315.9	1338.2	1382.8	1416.1	1419.4
160°	1239.0	1250.1	1261.2	1264.0	1281.3	1304.3	1315.9	1335.0	1373.2	1401.8	1403.7
162.5°	1259.6	1267.9	1276.2	1278.3	1290.9	1307.6	1315.9	1332.0	1364.2	1388.4	1390.2
165°	1282.0	1289.5	1297.0	1298.9	1304.5	1312.1	1315.9	1327.5	1350.5	1367.8	1369.7
167.5°	1302.5	1306.1	1309.7	1310.6	1315.3	1321.7	1324.9	1332.5	1347.6	1358.8	1359.6
170°	1315.9	1319.5	1323.1	1323.9	1324.2	1324.7	1324.9	1332.5	1347.6	1358.8	1358.8
172.5°	1323.1	1323.8	1324.7	1324.9	1324.9	1324.9	1324.9	1330.8	1342.8	1351.7	1351.0
175°	1332.9	1332.9	1332.9	1332.9	1330.3	1326.7	1324.9	1328.6	1336.2	1341.8	1341.8
177.5°	1332.9	1332.9	1332.9	1332.9	1330.8	1328.1	1326.6	1329.6	1335.6	1340.1	1339.3
180°	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1042.7	1039.9	1042.7	1040.8	1041.8	1038.9	1030.2	1027.3	1030.2	1033.1	1033.1
5°	1055.3	1053.2	1055.3	1055.3	1054.3	1052.3	1042.7	1040.8	1042.7	1043.7	1041.8
7.5°	1059.1	1056.2	1059.1	1057.2	1057.2	1055.3	1045.6	1043.7	1044.6	1047.5	1044.6
10°	1059.1	1056.2	1059.1	1058.1	1057.2	1055.3	1045.6	1041.8	1041.8	1044.6	1041.8
12.5°	1054.3	1052.3	1054.3	1052.3	1052.3	1050.4	1040.8	1036.9	1037.9	1038.9	1035.0
15°	1046.6	1043.7	1046.6	1044.6	1045.6	1042.7	1032.1	1028.3	1028.3	1030.2	1023.5
17.5°	1035.0	1031.2	1035.0	1034.0	1033.1	1031.2	1021.5	1017.7	1016.7	1017.7	1012.9
20°	1021.5	1018.6	1021.5	1020.5	1020.5	1016.7	1007.2	1002.3	1002.3	1002.3	997.5
22.5°	1000.4	997.5	1000.4	1002.3	1002.3	1001.3	992.7	985.9	984.0	984.0	978.3
25°	976.4	973.5	976.4	976.4	975.4	976.4	973.5	969.6	966.7	963.8	958.1
27.5°	953.2	951.3	953.2	951.3	953.2	950.4	949.4	948.4	944.6	941.8	934.0
30°	930.2	928.3	930.2	928.3	926.4	924.4	919.6	917.7	921.5	919.6	907.0
32.5°	901.3	899.4	901.3	901.3	899.4	899.4	891.6	888.8	889.7	895.6	884.0
35°	871.5	868.6	871.5	870.5	871.5	868.6	863.8	862.9	858.9	865.7	857.0
37.5°	836.9	834.0	836.9	836.9	836.9	838.8	834.9	832.1	826.2	834.9	828.2
40°	801.3	797.5	801.3	800.3	801.3	803.2	801.3	799.4	793.5	800.3	794.5
42.5°	760.8	759.9	760.8	761.8	761.8	765.7	768.6	764.8	762.8	758.0	761.8
45°	717.6	715.6	717.6	719.5	720.5	722.4	731.0	731.0	728.1	720.5	726.2
47.5°	671.4	666.6	671.4	677.2	677.2	680.0	688.7	695.4	690.7	681.0	684.0
50°	622.4	623.3	622.4	626.2	626.2	636.8	643.5	650.2	655.1	643.5	630.0
52.5°	574.3	573.3	574.3	577.2	581.0	585.8	597.3	604.1	611.8	605.1	583.9
55°	526.2	528.1	526.2	527.1	529.1	531.9	549.2	556.0	570.4	561.8	539.7
57.5°	478.1	475.2	478.1	480.0	481.0	483.8	498.3	510.8	519.4	520.4	493.5
60°	422.3	418.4	422.3	431.0	432.9	434.8	448.3	459.8	467.5	470.4	442.5
62.5°	373.2	366.5	373.2	379.0	382.9	387.6	397.3	414.6	421.3	422.3	382.9
65°	321.3	318.4	321.3	332.9	333.8	339.5	350.2	362.7	377.0	375.1	318.4
67.5°	274.1	274.1	274.1	281.9	287.6	290.5	304.0	309.7	328.0	330.0	265.5
70°	230.8	229.9	230.8	236.7	240.5	247.2	259.7	266.5	280.8	285.7	215.4
72.5°	189.5	188.6	189.5	194.3	198.1	204.0	214.5	222.2	234.7	240.5	167.3
75°	153.0	151.0	153.0	156.8	155.9	163.5	172.2	179.9	191.4	195.3	124.1
77.5°	117.3	117.3	117.3	121.2	121.2	128.9	132.7	142.4	149.1	154.9	91.4
80°	87.5	86.5	87.5	88.5	88.5	92.4	99.1	105.9	111.6	111.6	62.5
82.5°	61.6	59.7	61.6	61.6	61.6	63.5	67.3	69.2	73.1	76.0	39.4
85°	38.4	38.4	38.4	39.4	38.4	40.4	41.4	43.3	43.3	41.4	24.0
87.5°	25.1	24.0	25.1	24.0	24.0	23.0	23.0	23.0	22.1	21.1	13.5
90°	34.0	34.0	34.0	34.0	34.0	45.3	60.4	68.0	58.4	39.4	25.1
92.5°	136.2	109.1	136.2	163.2	170.0	241.0	335.5	382.9	336.2	242.8	172.7
95°	474.6	392.7	474.6	556.5	577.0	757.7	998.6	1119.1	945.2	597.3	336.4
97.5°	1137.2	981.3	1137.2	1293.1	1332.1	1446.2	1598.6	1674.7	1384.7	804.5	369.5
100°	1638.5	1452.8	1638.5	1824.2	1870.6	1862.3	1851.1	1845.5	1523.7	880.0	397.2
102.5°	2131.5	1972.5	2131.5	2290.6	2330.3	2184.8	1990.8	1893.8	1567.4	914.6	424.9
105°	2760.2	2674.8	2760.2	2845.7	2867.1	2540.9	2105.9	1888.5	1572.4	940.2	466.0
107.5°	3172.1	3192.7	3172.1	3151.4	3146.3	2691.2	2084.5	1781.1	1502.4	944.9	526.9
110°	3329.1	3418.2	3329.1	3240.1	3217.8	2709.1	2030.8	1691.6	1440.3	937.8	560.9





TEST NUMBER: P935842

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-6500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3343.1	3479.9	3343.1	3206.4	3172.2	2651.5	1957.3	1610.2	1386.2	938.1	602.0
115°	3254.4	3444.1	3254.4	3064.8	3017.4	2515.8	1847.1	1512.7	1324.0	946.7	663.8
117.5°	3066.5	3276.9	3066.5	2856.1	2803.6	2350.9	1747.4	1445.7	1285.2	964.4	723.7
120°	2915.0	3119.4	2915.0	2710.6	2659.6	2246.0	1694.6	1418.8	1272.1	978.7	758.6
122.5°	2767.5	2969.1	2767.5	2565.9	2515.6	2143.1	1646.6	1398.2	1265.2	999.2	799.8
125°	2557.1	2742.7	2557.1	2371.4	2325.0	2008.6	1586.8	1375.9	1259.6	1027.0	852.5
127.5°	2367.8	2524.5	2367.8	2211.2	2172.0	1900.3	1538.1	1357.0	1256.2	1054.7	903.5
130°	2256.3	2401.0	2256.3	2111.6	2075.4	1833.6	1511.2	1350.0	1258.3	1075.0	937.5
132.5°	2155.1	2284.7	2155.1	2025.5	1993.1	1776.6	1487.9	1343.6	1259.6	1091.4	965.3
135°	2016.5	2128.2	2016.5	1904.7	1876.8	1695.5	1453.8	1332.9	1258.3	1109.3	997.5
137.5°	1905.3	1996.7	1905.3	1813.8	1790.9	1637.7	1433.3	1331.1	1266.1	1136.1	1038.6
140°	1828.9	1914.4	1828.9	1743.4	1722.1	1589.7	1413.2	1324.9	1267.4	1152.5	1066.3
142.5°	1765.7	1839.2	1765.7	1692.1	1673.7	1557.4	1402.4	1324.9	1272.0	1166.3	1086.9
145°	1670.9	1726.5	1670.9	1615.2	1601.3	1506.2	1379.3	1315.9	1272.0	1184.1	1118.3
147.5°	1598.1	1644.3	1598.1	1552.0	1540.4	1465.6	1365.8	1315.9	1280.7	1210.3	1157.6
150°	1552.3	1589.7	1552.3	1514.9	1505.5	1442.3	1358.1	1315.9	1285.3	1224.0	1178.1
152.5°	1513.1	1541.4	1513.1	1484.9	1477.8	1423.9	1351.9	1315.9	1288.3	1233.0	1191.6
155°	1468.0	1486.8	1468.0	1449.4	1444.7	1401.8	1344.5	1315.9	1294.9	1252.7	1221.1
157.5°	1432.6	1445.7	1432.6	1419.4	1416.1	1382.8	1338.2	1315.9	1301.4	1272.4	1250.6
160°	1411.2	1418.8	1411.2	1403.7	1401.8	1373.2	1335.0	1315.9	1304.3	1281.3	1264.0
162.5°	1397.3	1404.5	1397.3	1390.2	1388.4	1364.2	1332.0	1315.9	1307.6	1290.9	1278.3
165°	1377.2	1384.8	1377.2	1369.7	1367.8	1350.5	1327.5	1315.9	1312.1	1304.5	1298.9
167.5°	1362.9	1366.0	1362.9	1359.6	1358.8	1347.6	1332.5	1324.9	1321.7	1315.3	1310.6
170°	1358.8	1358.8	1358.8	1358.8	1358.8	1347.6	1332.5	1324.9	1324.7	1324.2	1323.9
172.5°	1348.2	1345.5	1348.2	1351.0	1351.7	1342.8	1330.8	1324.9	1324.9	1324.9	1324.9
175°	1341.8	1341.8	1341.8	1341.8	1341.8	1336.2	1328.6	1324.9	1326.7	1330.3	1332.9
177.5°	1336.1	1332.9	1336.1	1339.3	1340.1	1335.6	1329.6	1326.6	1328.1	1330.8	1332.9
180°	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9



TEST NUMBER: P935842

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1031.2	1025.4	1025.4	1015.8	1011.9	1009.1	1004.2	989.9	985.9	982.1	987.8
5°	1039.9	1029.2	1021.5	1004.2	989.9	984.0	965.8	931.1	908.0	890.7	881.1
7.5°	1041.8	1028.3	1013.9	986.9	952.3	936.9	881.1	817.6	800.3	784.9	775.3
10°	1039.9	1024.5	1004.2	963.8	882.1	855.1	799.4	758.0	747.4	744.5	747.4
12.5°	1033.1	1018.6	990.8	923.4	808.9	790.7	758.0	734.0	732.0	736.8	762.8
15°	1021.5	1008.1	975.4	869.6	768.6	755.1	732.0	723.4	734.0	767.6	845.6
17.5°	1010.0	994.6	954.2	816.7	737.8	728.1	711.8	729.1	788.8	834.0	859.9
20°	994.6	976.4	930.2	778.1	715.6	707.0	699.3	777.2	822.4	838.8	853.2
22.5°	976.4	957.1	897.5	751.3	692.6	685.9	690.7	804.2	822.4	834.0	846.5
25°	952.3	935.9	858.9	730.1	674.3	666.6	684.9	801.3	811.8	814.8	839.7
27.5°	930.2	909.0	818.6	710.8	652.2	649.3	689.7	788.8	796.5	799.4	826.2
30°	903.2	871.5	773.4	690.7	629.1	628.1	690.7	773.4	771.5	779.1	806.1
32.5°	875.3	815.7	722.4	665.6	607.0	606.0	684.0	750.3	748.4	758.9	779.1
35°	849.4	772.4	653.2	636.8	579.1	580.0	667.5	723.4	724.3	734.0	746.4
37.5°	822.4	734.9	577.2	605.1	552.1	552.1	645.4	698.3	696.4	699.3	716.7
40°	790.7	676.2	509.8	563.7	527.1	524.3	618.5	671.4	664.6	663.7	687.8
42.5°	757.0	611.8	459.8	508.9	498.3	494.4	585.8	638.7	626.2	629.1	659.9
45°	720.5	594.5	421.3	430.0	468.4	465.6	550.2	601.2	592.6	600.2	631.9
47.5°	684.0	559.9	408.8	356.9	436.7	435.7	510.8	564.6	559.9	567.5	601.2
50°	633.9	521.3	407.8	305.9	401.1	404.9	463.7	529.1	529.1	535.8	571.4
52.5°	569.4	474.2	370.3	277.0	359.7	371.3	422.3	498.3	500.2	507.0	538.6
55°	510.8	425.1	343.4	254.9	310.7	335.7	381.9	466.5	470.4	477.1	505.9
57.5°	456.9	354.0	337.6	228.9	265.5	289.5	346.3	435.7	437.6	443.5	471.3
60°	399.2	255.9	309.7	201.0	226.0	244.3	313.5	399.2	405.9	409.7	433.8
62.5°	333.8	185.7	280.8	181.8	206.8	210.6	286.7	364.6	373.2	376.1	390.5
65°	237.6	155.9	238.6	165.4	186.6	187.6	257.8	328.9	336.7	341.5	352.1
67.5°	160.6	127.0	181.8	150.0	171.3	172.2	229.9	287.6	298.2	302.1	308.8
70°	111.6	84.6	134.6	133.7	153.9	155.9	200.0	250.1	259.7	262.6	266.5
72.5°	81.8	68.3	111.6	120.2	135.6	137.6	169.3	207.8	217.4	220.3	222.2
75°	62.5	72.1	90.5	104.9	115.4	116.4	138.6	169.3	176.0	177.9	178.9
77.5°	50.0	67.3	66.4	84.6	94.3	92.4	108.7	130.8	136.5	136.5	136.5
80°	37.5	52.9	50.0	60.6	69.2	67.3	77.9	93.3	95.2	97.1	96.2
82.5°	27.9	33.7	33.7	38.4	46.2	44.3	51.9	60.6	60.6	60.6	62.5
85°	17.3	19.2	15.4	20.2	26.0	25.1	28.9	32.7	33.7	33.7	31.7
87.5°	10.6	8.7	4.8	7.6	11.6	11.6	13.5	14.4	13.5	13.5	13.5
90°	23.2	16.2	9.0	16.2	23.2	25.1	39.4	58.4	68.0	60.4	45.3
92.5°	157.5	96.6	35.8	96.6	157.5	172.7	242.8	336.2	382.9	335.5	241.0
95°	308.6	197.2	85.9	197.2	308.6	336.4	597.3	945.2	1119.1	998.6	757.7
97.5°	344.9	246.7	148.5	246.7	344.9	369.5	804.5	1384.7	1674.7	1598.6	1446.2
100°	374.9	285.9	196.8	285.9	374.9	397.2	880.0	1523.7	1845.5	1851.1	1862.3
102.5°	404.2	321.1	238.0	321.1	404.2	424.9	914.6	1567.4	1893.8	1990.8	2184.8
105°	448.5	378.1	307.7	378.1	448.5	466.0	940.2	1572.4	1888.5	2105.9	2540.9
107.5°	510.5	444.9	379.3	444.9	510.5	526.9	944.9	1502.4	1781.1	2084.5	2691.2
110°	546.1	486.9	427.6	486.9	546.1	560.9	937.8	1440.3	1691.6	2030.8	2709.1



TEST NUMBER: P935842

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	587.9	531.5	475.0	531.5	587.9	602.0	938.1	1386.2	1610.2	1957.3	2651.5
115°	650.8	598.7	546.6	598.7	650.8	663.8	946.7	1324.0	1512.7	1847.1	2515.8
117.5°	711.9	664.6	617.2	664.6	711.9	723.7	964.4	1285.2	1445.7	1747.4	2350.9
120°	747.6	703.0	658.4	703.0	747.6	758.6	978.7	1272.1	1418.8	1694.6	2246.0
122.5°	788.6	743.6	698.7	743.6	788.6	799.8	999.2	1265.2	1398.2	1646.6	2143.1
125°	842.3	801.3	760.4	801.3	842.3	852.5	1027.0	1259.6	1375.9	1586.8	2008.6
127.5°	893.2	851.8	810.5	851.8	893.2	903.5	1054.7	1256.2	1357.0	1538.1	1900.3
130°	926.5	881.9	837.3	881.9	926.5	937.5	1075.0	1258.3	1350.0	1511.2	1833.6
132.5°	954.2	909.6	865.1	909.6	954.2	965.3	1091.4	1259.6	1343.6	1487.9	1776.6
135°	987.4	946.7	906.2	946.7	987.4	997.5	1109.3	1258.3	1332.9	1453.8	1695.5
137.5°	1028.6	988.4	948.3	988.4	1028.6	1038.6	1136.1	1266.1	1331.1	1433.3	1637.7
140°	1057.1	1020.2	983.2	1020.2	1057.1	1066.3	1152.5	1267.4	1324.9	1413.2	1589.7
142.5°	1078.4	1044.2	1009.9	1044.2	1078.4	1086.9	1166.3	1272.0	1324.9	1402.4	1557.4
145°	1110.8	1081.0	1051.1	1081.0	1110.8	1118.3	1184.1	1272.0	1315.9	1379.3	1506.2
147.5°	1150.3	1121.3	1092.3	1121.3	1150.3	1157.6	1210.3	1280.7	1315.9	1365.8	1465.6
150°	1171.5	1145.3	1119.1	1145.3	1171.5	1178.1	1224.0	1285.3	1315.9	1358.1	1442.3
152.5°	1186.6	1166.7	1146.9	1166.7	1186.6	1191.6	1233.0	1288.3	1315.9	1351.9	1423.9
155°	1217.4	1202.7	1188.0	1202.7	1217.4	1221.1	1252.7	1294.9	1315.9	1344.5	1401.8
157.5°	1247.1	1232.7	1218.4	1232.7	1247.1	1250.6	1272.4	1301.4	1315.9	1338.2	1382.8
160°	1261.2	1250.1	1239.0	1250.1	1261.2	1264.0	1281.3	1304.3	1315.9	1335.0	1373.2
162.5°	1276.2	1267.9	1259.6	1267.9	1276.2	1278.3	1290.9	1307.6	1315.9	1332.0	1364.2
165°	1297.0	1289.5	1282.0	1289.5	1297.0	1298.9	1304.5	1312.1	1315.9	1327.5	1350.5
167.5°	1309.7	1306.1	1302.5	1306.1	1309.7	1310.6	1315.3	1321.7	1324.9	1332.5	1347.6
170°	1323.1	1319.5	1315.9	1319.5	1323.1	1323.9	1324.2	1324.7	1324.9	1332.5	1347.6
172.5°	1324.7	1323.8	1323.1	1323.8	1324.7	1324.9	1324.9	1324.9	1324.9	1330.8	1342.8
175°	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1330.3	1326.7	1324.9	1328.6	1336.2
177.5°	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1330.8	1328.1	1326.6	1329.6	1335.6
180°	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9



TEST NUMBER: P935842

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-6500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	981.1	978.3	982.1	971.5	982.1	978.3	981.1	987.8	982.1	985.9	989.9
5°	861.0	856.1	840.7	828.2	840.7	856.1	861.0	881.1	890.7	908.0	931.1
7.5°	769.5	765.7	761.8	754.1	761.8	765.7	769.5	775.3	784.9	800.3	817.6
10°	749.4	750.3	756.1	755.1	756.1	750.3	749.4	747.4	744.5	747.4	758.0
12.5°	801.3	809.9	841.6	839.7	841.6	809.9	801.3	762.8	736.8	732.0	734.0
15°	861.0	863.8	870.5	871.5	870.5	863.8	861.0	845.6	767.6	734.0	723.4
17.5°	866.7	867.6	872.4	872.4	872.4	867.6	866.7	859.9	834.0	788.8	729.1
20°	861.9	863.8	873.4	875.3	873.4	863.8	861.9	853.2	838.8	822.4	777.2
22.5°	859.9	863.8	871.5	870.5	871.5	863.8	859.9	846.5	834.0	822.4	804.2
25°	850.3	850.3	851.3	852.3	851.3	850.3	850.3	839.7	814.8	811.8	801.3
27.5°	830.2	832.1	837.8	836.9	837.8	832.1	830.2	826.2	799.4	796.5	788.8
30°	811.8	809.9	805.1	801.3	805.1	809.9	811.8	806.1	779.1	771.5	773.4
32.5°	781.1	776.2	771.5	768.6	771.5	776.2	781.1	779.1	758.9	748.4	750.3
35°	744.5	745.4	744.5	741.6	744.5	745.4	744.5	746.4	734.0	724.3	723.4
37.5°	718.6	720.5	719.5	715.6	719.5	720.5	718.6	716.7	699.3	696.4	698.3
40°	691.6	692.6	691.6	688.7	691.6	692.6	691.6	687.8	663.7	664.6	671.4
42.5°	665.6	664.6	661.8	659.9	661.8	664.6	665.6	659.9	629.1	626.2	638.7
45°	635.9	636.8	631.0	628.1	631.0	636.8	635.9	631.9	600.2	592.6	601.2
47.5°	606.0	606.0	601.2	598.3	601.2	606.0	606.0	601.2	567.5	559.9	564.6
50°	574.3	573.3	566.5	565.6	566.5	573.3	574.3	571.4	535.8	529.1	529.1
52.5°	537.7	537.7	538.6	540.6	538.6	537.7	537.7	538.6	507.0	500.2	498.3
55°	505.9	507.0	513.7	515.6	513.7	507.0	505.9	505.9	477.1	470.4	466.5
57.5°	473.2	473.2	478.1	478.1	478.1	473.2	473.2	471.3	443.5	437.6	435.7
60°	435.7	437.6	441.5	440.5	441.5	437.6	435.7	433.8	409.7	405.9	399.2
62.5°	396.3	398.3	399.2	397.3	399.2	398.3	396.3	390.5	376.1	373.2	364.6
65°	354.9	356.9	357.8	355.9	357.8	356.9	354.9	352.1	341.5	336.7	328.9
67.5°	312.6	311.6	310.7	314.6	310.7	311.6	312.6	308.8	302.1	298.2	287.6
70°	269.4	269.4	268.4	270.3	268.4	269.4	269.4	266.5	262.6	259.7	250.1
72.5°	223.2	222.2	226.0	223.2	226.0	222.2	223.2	222.2	220.3	217.4	207.8
75°	177.9	179.9	177.9	180.8	177.9	179.9	177.9	178.9	177.9	176.0	169.3
77.5°	135.6	137.6	135.6	135.6	135.6	137.6	135.6	136.5	136.5	136.5	130.8
80°	96.2	95.2	95.2	94.3	95.2	95.2	96.2	96.2	97.1	95.2	93.3
82.5°	61.6	60.6	60.6	62.5	60.6	60.6	61.6	62.5	60.6	60.6	60.6
85°	33.7	34.6	32.7	32.7	32.7	34.6	33.7	31.7	33.7	33.7	32.7
87.5°	12.5	11.6	11.6	11.6	11.6	11.6	12.5	13.5	13.5	13.5	14.4
90°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	45.3	60.4	68.0	58.4
92.5°	170.0	163.2	136.2	109.1	136.2	163.2	170.0	241.0	335.5	382.9	336.2
95°	577.0	556.5	474.6	392.7	474.6	556.5	577.0	757.7	998.6	1119.1	945.2
97.5°	1332.1	1293.1	1137.2	981.3	1137.2	1293.1	1332.1	1446.2	1598.6	1674.7	1384.7
100°	1870.6	1824.2	1638.5	1452.8	1638.5	1824.2	1870.6	1862.3	1851.1	1845.5	1523.7
102.5°	2330.3	2290.6	2131.5	1972.5	2131.5	2290.6	2330.3	2184.8	1990.8	1893.8	1567.4
105°	2867.1	2845.7	2760.2	2674.8	2760.2	2845.7	2867.1	2540.9	2105.9	1888.5	1572.4
107.5°	3146.3	3151.4	3172.1	3192.7	3172.1	3151.4	3146.3	2691.2	2084.5	1781.1	1502.4
110°	3217.8	3240.1	3329.1	3418.2	3329.1	3240.1	3217.8	2709.1	2030.8	1691.6	1440.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3172.2	3206.4	3343.1	3479.9	3343.1	3206.4	3172.2	2651.5	1957.3	1610.2	1386.2
115°	3017.4	3064.8	3254.4	3444.1	3254.4	3064.8	3017.4	2515.8	1847.1	1512.7	1324.0
117.5°	2803.6	2856.1	3066.5	3276.9	3066.5	2856.1	2803.6	2350.9	1747.4	1445.7	1285.2
120°	2659.6	2710.6	2915.0	3119.4	2915.0	2710.6	2659.6	2246.0	1694.6	1418.8	1272.1
122.5°	2515.6	2565.9	2767.5	2969.1	2767.5	2565.9	2515.6	2143.1	1646.6	1398.2	1265.2
125°	2325.0	2371.4	2557.1	2742.7	2557.1	2371.4	2325.0	2008.6	1586.8	1375.9	1259.6
127.5°	2172.0	2211.2	2367.8	2524.5	2367.8	2211.2	2172.0	1900.3	1538.1	1357.0	1256.2
130°	2075.4	2111.6	2256.3	2401.0	2256.3	2111.6	2075.4	1833.6	1511.2	1350.0	1258.3
132.5°	1993.1	2025.5	2155.1	2284.7	2155.1	2025.5	1993.1	1776.6	1487.9	1343.6	1259.6
135°	1876.8	1904.7	2016.5	2128.2	2016.5	1904.7	1876.8	1695.5	1453.8	1332.9	1258.3
137.5°	1790.9	1813.8	1905.3	1996.7	1905.3	1813.8	1790.9	1637.7	1433.3	1331.1	1266.1
140°	1722.1	1743.4	1828.9	1914.4	1828.9	1743.4	1722.1	1589.7	1413.2	1324.9	1267.4
142.5°	1673.7	1692.1	1765.7	1839.2	1765.7	1692.1	1673.7	1557.4	1402.4	1324.9	1272.0
145°	1601.3	1615.2	1670.9	1726.5	1670.9	1615.2	1601.3	1506.2	1379.3	1315.9	1272.0
147.5°	1540.4	1552.0	1598.1	1644.3	1598.1	1552.0	1540.4	1465.6	1365.8	1315.9	1280.7
150°	1505.5	1514.9	1552.3	1589.7	1552.3	1514.9	1505.5	1442.3	1358.1	1315.9	1285.3
152.5°	1477.8	1484.9	1513.1	1541.4	1513.1	1484.9	1477.8	1423.9	1351.9	1315.9	1288.3
155°	1444.7	1449.4	1468.0	1486.8	1468.0	1449.4	1444.7	1401.8	1344.5	1315.9	1294.9
157.5°	1416.1	1419.4	1432.6	1445.7	1432.6	1419.4	1416.1	1382.8	1338.2	1315.9	1301.4
160°	1401.8	1403.7	1411.2	1418.8	1411.2	1403.7	1401.8	1373.2	1335.0	1315.9	1304.3
162.5°	1388.4	1390.2	1397.3	1404.5	1397.3	1390.2	1388.4	1364.2	1332.0	1315.9	1307.6
165°	1367.8	1369.7	1377.2	1384.8	1377.2	1369.7	1367.8	1350.5	1327.5	1315.9	1312.1
167.5°	1358.8	1359.6	1362.9	1366.0	1362.9	1359.6	1358.8	1347.6	1332.5	1324.9	1321.7
170°	1358.8	1358.8	1358.8	1358.8	1358.8	1358.8	1358.8	1347.6	1332.5	1324.9	1324.7
172.5°	1351.7	1351.0	1348.2	1345.5	1348.2	1351.0	1351.7	1342.8	1330.8	1324.9	1324.9
175°	1341.8	1341.8	1341.8	1341.8	1341.8	1341.8	1341.8	1336.2	1328.6	1324.9	1326.7
177.5°	1340.1	1339.3	1336.1	1332.9	1336.1	1339.3	1340.1	1335.6	1329.6	1326.6	1328.1
180°	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1004.2	1009.1	1011.9	1015.8	1025.4
5°	965.8	984.0	989.9	1004.2	1021.5
7.5°	881.1	936.9	952.3	986.9	1013.9
10°	799.4	855.1	882.1	963.8	1004.2
12.5°	758.0	790.7	808.9	923.4	990.8
15°	732.0	755.1	768.6	869.6	975.4
17.5°	711.8	728.1	737.8	816.7	954.2
20°	699.3	707.0	715.6	778.1	930.2
22.5°	690.7	685.9	692.6	751.3	897.5
25°	684.9	666.6	674.3	730.1	858.9
27.5°	689.7	649.3	652.2	710.8	818.6
30°	690.7	628.1	629.1	690.7	773.4
32.5°	684.0	606.0	607.0	665.6	722.4
35°	667.5	580.0	579.1	636.8	653.2
37.5°	645.4	552.1	552.1	605.1	577.2
40°	618.5	524.3	527.1	563.7	509.8
42.5°	585.8	494.4	498.3	508.9	459.8
45°	550.2	465.6	468.4	430.0	421.3
47.5°	510.8	435.7	436.7	356.9	408.8
50°	463.7	404.9	401.1	305.9	407.8
52.5°	422.3	371.3	359.7	277.0	370.3
55°	381.9	335.7	310.7	254.9	343.4
57.5°	346.3	289.5	265.5	228.9	337.6
60°	313.5	244.3	226.0	201.0	309.7
62.5°	286.7	210.6	206.8	181.8	280.8
65°	257.8	187.6	186.6	165.4	238.6
67.5°	229.9	172.2	171.3	150.0	181.8
70°	200.0	155.9	153.9	133.7	134.6
72.5°	169.3	137.6	135.6	120.2	111.6
75°	138.6	116.4	115.4	104.9	90.5
77.5°	108.7	92.4	94.3	84.6	66.4
80°	77.9	67.3	69.2	60.6	50.0
82.5°	51.9	44.3	46.2	38.4	33.7
85°	28.9	25.1	26.0	20.2	15.4
87.5°	13.5	11.6	11.6	7.6	4.8
90°	39.4	25.1	23.2	16.2	9.0
92.5°	242.8	172.7	157.5	96.6	35.8
95°	597.3	336.4	308.6	197.2	85.9
97.5°	804.5	369.5	344.9	246.7	148.5
100°	880.0	397.2	374.9	285.9	196.8
102.5°	914.6	424.9	404.2	321.1	238.0
105°	940.2	466.0	448.5	378.1	307.7
107.5°	944.9	526.9	510.5	444.9	379.3
110°	937.8	560.9	546.1	486.9	427.6



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CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-6-6500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	938.1	602.0	587.9	531.5	475.0
115°	946.7	663.8	650.8	598.7	546.6
117.5°	964.4	723.7	711.9	664.6	617.2
120°	978.7	758.6	747.6	703.0	658.4
122.5°	999.2	799.8	788.6	743.6	698.7
125°	1027.0	852.5	842.3	801.3	760.4
127.5°	1054.7	903.5	893.2	851.8	810.5
130°	1075.0	937.5	926.5	881.9	837.3
132.5°	1091.4	965.3	954.2	909.6	865.1
135°	1109.3	997.5	987.4	946.7	906.2
137.5°	1136.1	1038.6	1028.6	988.4	948.3
140°	1152.5	1066.3	1057.1	1020.2	983.2
142.5°	1166.3	1086.9	1078.4	1044.2	1009.9
145°	1184.1	1118.3	1110.8	1081.0	1051.1
147.5°	1210.3	1157.6	1150.3	1121.3	1092.3
150°	1224.0	1178.1	1171.5	1145.3	1119.1
152.5°	1233.0	1191.6	1186.6	1166.7	1146.9
155°	1252.7	1221.1	1217.4	1202.7	1188.0
157.5°	1272.4	1250.6	1247.1	1232.7	1218.4
160°	1281.3	1264.0	1261.2	1250.1	1239.0
162.5°	1290.9	1278.3	1276.2	1267.9	1259.6
165°	1304.5	1298.9	1297.0	1289.5	1282.0
167.5°	1315.3	1310.6	1309.7	1306.1	1302.5
170°	1324.2	1323.9	1323.1	1319.5	1315.9
172.5°	1324.9	1324.9	1324.7	1323.8	1323.1
175°	1330.3	1332.9	1332.9	1332.9	1332.9
177.5°	1330.8	1332.9	1332.9	1332.9	1332.9
180°	1332.9	1332.9	1332.9	1332.9	1332.9



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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	7.98	8.65	9.14	9.79	11.40	10.81	11.47	11.96	12.61	14.22
	3H	8.44	9.04	9.61	10.19	11.81	12.13	12.73	13.30	13.88	15.50
	4H	8.63	9.19	9.80	10.34	11.97	12.57	13.13	13.74	14.28	15.91
	6H	8.73	9.25	9.91	10.41	12.04	12.84	13.36	14.02	14.51	16.15
	8H	8.73	9.22	9.91	10.39	12.02	12.91	13.40	14.09	14.57	16.20
	12H	8.69	9.16	9.88	10.32	11.98	12.94	13.41	14.13	14.57	16.22
4H	2H	8.99	9.55	10.17	10.70	12.33	11.19	11.76	12.37	12.91	14.53
	3H	10.00	10.47	11.18	11.64	13.28	12.68	13.15	13.86	14.32	15.96
	4H	10.26	10.70	11.45	11.86	13.52	13.19	13.63	14.38	14.79	16.45
	6H	10.38	10.75	11.57	11.94	13.58	13.55	13.92	14.74	15.11	16.75
	8H	10.38	10.73	11.57	11.90	13.57	13.65	13.99	14.84	15.17	16.84
	12H	10.34	10.65	11.54	11.84	13.51	13.69	14.01	14.90	15.20	16.87
8H	4H	10.70	11.05	11.89	12.23	13.89	13.30	13.65	14.49	14.83	16.49
	6H	10.95	11.24	12.16	12.46	14.12	13.73	14.02	14.94	15.24	16.90
	8H	10.99	11.24	12.21	12.44	14.12	13.88	14.13	15.09	15.33	17.01
	12H	10.97	11.19	12.19	12.38	14.09	13.97	14.19	15.18	15.38	17.09
12H	4H	10.70	11.01	11.90	12.20	13.87	13.26	13.57	14.46	14.76	16.43
	6H	11.01	11.26	12.23	12.46	14.14	13.73	13.97	14.94	15.17	16.85
	8H	11.07	11.29	12.29	12.48	14.19	13.88	14.09	15.09	15.29	17.00