

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: P934265

Luminaire Tested: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

**Test Information**

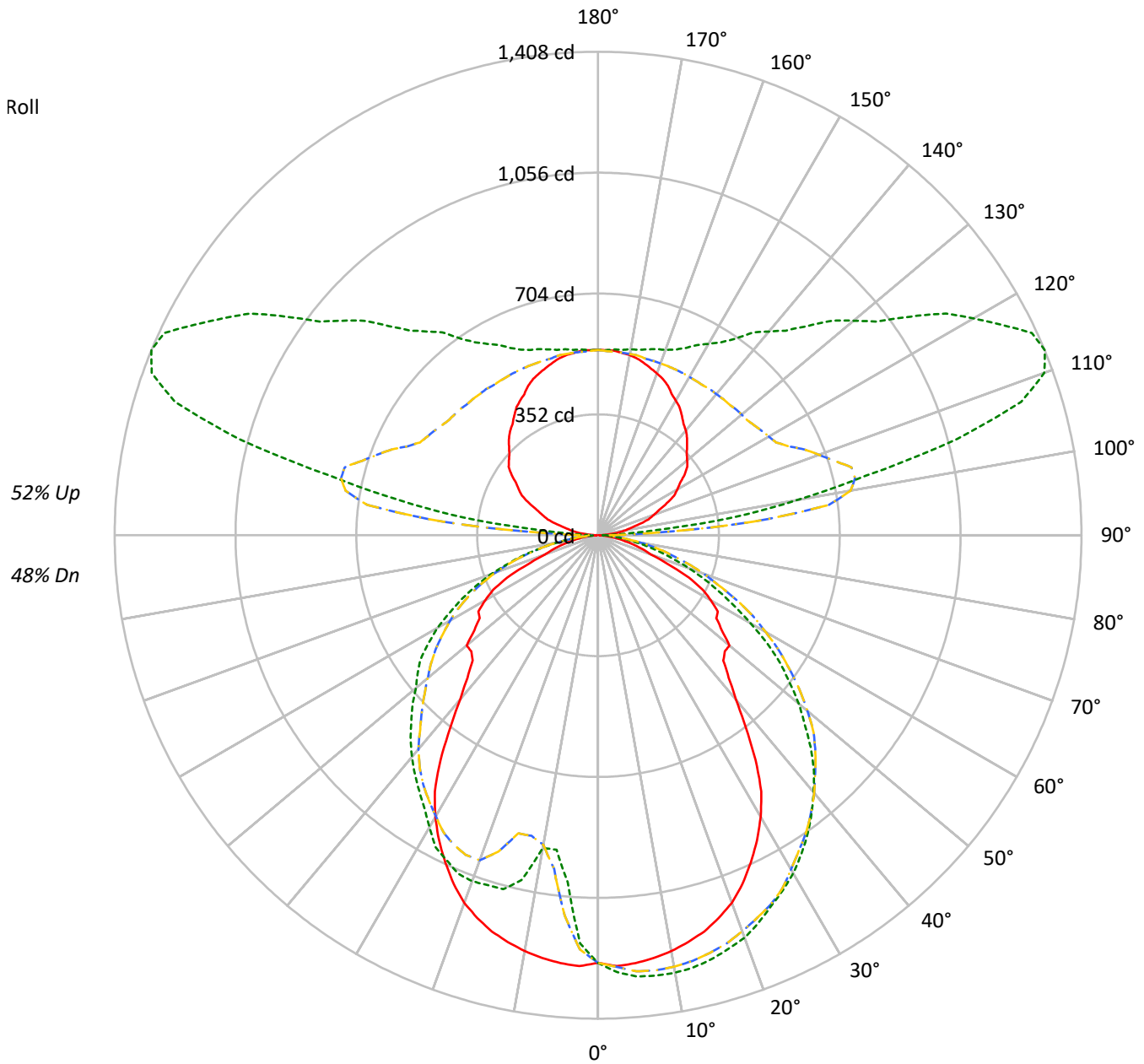
Test Method: LM-79-2019  
Report Number: P934265  
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6727.8 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 56.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P934265  
CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3000K

### 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	50	30	10	0
RCR																					
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12

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

	0°	90°	180°	270°
0°	5778	5778	5778	5778
5°	5820	5832	5820	4586
10°	5782	5745	5782	4107
15°	5719	5620	5719	4693
20°	5599	5473	5599	4703
25°	5354	5258	5354	4603
30°	5038	5080	5038	4384
35°	4491	4853	4491	4144
40°	3742	4587	3742	3962
45°	3344	4276	3344	3753
50°	3552	3905	3552	3544
55°	3342	3506	3342	3422
60°	3445	2977	3445	3134
65°	3123	2461	3123	2751
70°	2163	1962	2163	2306
75°	1898	1450	1898	1736
80°	1527	958	1527	1043
85°	880	508	880	432

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5125 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.4	1.7
10°-20°	319.1	4.7
20°-30°	493.3	7.3
30°-40°	588.9	8.8
40°-50°	592.4	8.8
50°-60°	515.4	7.7
60°-70°	365.5	5.4
70°-80°	193.3	2.9
80°-90°	50.2	0.7
90°-100°	263.0	3.9
100°-110°	691.3	10.3
110°-120°	716.8	10.7
120°-130°	575.0	8.5
130°-140°	451.2	6.7
140°-150°	346.3	5.1
150°-160°	249.4	3.7
160°-170°	152.6	2.3
170°-180°	51.6	0.8
0°-30°	924.9	13.7
0°-40°	1513.8	22.5
0°-60°	2621.7	39.0
0°-90°	3230.7	48.0
90°-120°	1671.1	24.8
90°-150°	3043.6	45.2
90°-180°	3497.0	52.0
0°-180°	6727.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1245	1245	1245	1245	1245	
5°	1251	1290	1251	1014	1251	119
15°	1195	1278	1195	1067	1195	336
25°	1052	1192	1052	1044	1052	483
35°	800	1064	800	908	800	495
45°	516	876	516	769	516	413
55°	420	647	420	631	420	386
65°	292	390	292	436	292	279
75°	111	185	111	222	111	116
85°	19	47	19	40	19	25
90°	4	14	4	14	4	4
95°	35	159	35	159	35	39
105°	124	1082	124	1082	124	132
115°	221	1394	221	1394	221	218
125°	308	1110	308	1110	308	273
135°	367	861	367	861	367	284
145°	425	699	425	699	425	267
155°	481	602	481	602	481	221
165°	519	560	519	560	519	146
175°	540	543	540	543	540	51
180°	540	540	540	540	540	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1255.8	1255.8	1262.9	1265.3	1265.3	1261.7	1258.2	1261.7	1272.3	1275.8	1274.7
5°	1251.1	1260.5	1273.5	1275.8	1278.2	1277.0	1274.7	1277.0	1288.8	1291.2	1292.3
7.5°	1241.7	1259.4	1275.8	1279.4	1282.9	1279.4	1278.2	1280.6	1292.3	1294.7	1294.7
10°	1229.9	1254.7	1273.5	1275.8	1279.4	1275.8	1275.8	1280.6	1292.3	1294.7	1295.8
12.5°	1213.4	1247.5	1265.3	1267.6	1272.3	1271.2	1269.9	1274.7	1286.4	1288.8	1288.8
15°	1194.6	1234.6	1251.1	1253.4	1261.7	1259.4	1259.4	1264.1	1277.0	1280.6	1279.4
17.5°	1168.7	1218.1	1237.0	1240.5	1246.4	1245.3	1246.4	1251.1	1262.9	1265.3	1266.4
20°	1139.2	1195.7	1218.1	1221.6	1227.5	1227.5	1227.5	1233.4	1245.3	1249.9	1249.9
22.5°	1099.1	1172.2	1195.7	1198.1	1205.2	1205.2	1207.5	1215.7	1226.4	1227.5	1227.5
25°	1052.0	1146.3	1166.3	1173.3	1180.4	1183.9	1187.5	1192.2	1195.7	1194.6	1195.7
27.5°	1002.6	1113.2	1139.2	1143.9	1153.3	1156.9	1161.6	1162.8	1163.9	1167.4	1165.2
30°	947.2	1067.3	1106.2	1111.0	1126.2	1128.6	1123.9	1126.2	1132.1	1134.5	1136.9
32.5°	884.7	999.0	1072.1	1082.7	1096.8	1089.7	1088.6	1092.1	1101.5	1101.5	1103.8
35°	799.9	946.0	1040.3	1049.7	1060.3	1052.0	1056.8	1057.9	1063.8	1067.3	1066.2
37.5°	706.9	900.1	1007.2	1014.3	1022.6	1012.0	1019.0	1022.6	1027.3	1024.9	1024.9
40°	624.4	828.2	968.4	973.1	980.2	971.9	979.0	981.3	983.7	981.3	980.2
42.5°	563.1	749.3	927.1	933.0	928.3	934.2	936.5	941.3	937.8	933.0	933.0
45°	516.0	728.0	882.3	889.5	882.3	891.8	895.3	895.3	884.7	882.3	881.2
47.5°	500.7	685.6	837.6	837.6	834.0	845.9	851.8	843.5	832.9	829.4	829.4
50°	499.5	638.5	776.3	771.7	788.1	802.2	796.4	788.1	779.8	766.9	766.9
52.5°	453.6	580.8	697.5	715.1	741.0	749.3	739.8	731.6	717.5	711.5	706.9
55°	420.5	520.7	625.5	660.9	688.0	698.6	680.9	672.7	651.4	647.9	645.6
57.5°	413.5	433.5	559.6	604.4	637.3	636.2	625.5	610.2	592.6	589.1	587.8
60°	379.3	313.4	488.9	541.9	576.1	572.6	563.1	548.9	532.5	530.1	527.8
62.5°	344.0	227.4	408.8	468.8	517.1	516.0	507.7	486.6	474.7	468.8	464.2
65°	292.1	190.9	291.0	390.0	459.4	461.8	444.2	428.8	415.9	408.8	407.6
67.5°	222.6	155.5	196.7	325.1	404.1	401.7	379.3	372.3	355.8	352.3	345.2
70°	164.9	103.6	136.7	263.9	349.9	344.0	326.3	318.1	302.8	294.5	289.8
72.5°	136.7	83.6	100.1	205.0	294.5	287.5	272.1	262.7	249.8	242.7	237.9
75°	110.8	88.4	76.6	151.9	239.2	234.4	220.3	210.9	200.3	190.9	192.0
77.5°	81.3	82.5	61.2	111.9	189.7	182.6	174.3	162.6	157.8	148.4	148.4
80°	61.2	64.8	45.9	76.6	136.7	136.7	129.5	121.4	113.1	108.4	108.4
82.5°	41.2	41.2	34.2	48.3	93.1	89.5	84.8	82.5	77.7	75.4	75.4
85°	18.9	23.5	21.2	29.4	50.7	53.0	53.0	50.7	49.4	47.2	48.3
87.5°	5.9	10.6	13.0	16.5	25.9	27.1	28.3	28.3	28.3	29.4	29.4
90°	3.6	6.5	9.4	10.1	15.9	23.6	27.5	24.4	18.4	13.8	13.8
92.5°	14.5	39.1	63.8	69.9	98.3	136.0	154.9	135.8	97.5	68.8	66.0
95°	34.8	79.8	124.9	136.1	241.7	382.5	452.9	404.2	306.7	233.5	225.3
97.5°	60.1	99.8	139.6	149.5	325.6	560.4	677.8	647.0	585.3	539.1	523.3
100°	79.7	115.7	151.7	160.7	356.2	616.7	746.9	749.2	753.7	757.0	738.2
102.5°	96.3	130.0	163.5	172.0	370.1	634.4	766.5	805.8	884.3	943.1	927.0
105°	124.5	153.0	181.5	188.7	380.6	636.4	764.3	852.3	1028.4	1160.4	1151.7
107.5°	153.5	180.1	206.6	213.3	382.4	608.0	720.8	843.6	1089.2	1273.4	1275.5
110°	173.0	197.0	221.1	227.0	379.6	582.9	684.6	821.9	1096.4	1302.3	1311.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	192.3	215.1	237.9	243.6	379.7	561.1	651.7	792.1	1073.1	1283.8	1297.7
115°	221.2	242.3	263.4	268.7	383.2	535.9	612.3	747.6	1018.2	1221.2	1240.3
117.5°	249.8	268.9	288.1	292.9	390.3	520.1	585.0	707.2	951.5	1134.7	1155.9
120°	266.5	284.5	302.6	307.1	396.1	514.9	574.2	685.8	909.0	1076.4	1097.0
122.5°	282.7	300.9	319.1	323.7	404.4	512.0	565.9	666.4	867.4	1018.1	1038.5
125°	307.8	324.3	340.9	345.0	415.6	509.8	556.8	642.2	813.0	941.0	959.8
127.5°	328.0	344.7	361.4	365.6	426.9	508.4	549.2	622.5	769.1	879.1	894.9
130°	338.8	356.9	374.9	379.4	435.0	509.2	546.3	611.6	742.1	839.9	854.6
132.5°	350.1	368.1	386.2	390.7	441.7	509.8	543.8	602.3	719.1	806.6	819.7
135°	366.8	383.2	399.5	403.7	448.9	509.2	539.5	588.4	686.2	759.6	770.9
137.5°	383.8	400.1	416.3	420.4	459.8	512.4	538.7	580.1	662.9	724.9	734.1
140°	397.9	412.9	427.8	431.6	466.5	512.9	536.2	571.9	643.4	696.9	705.5
142.5°	408.8	422.6	436.4	439.9	472.0	514.8	536.2	567.6	630.4	677.4	684.9
145°	425.4	437.5	449.6	452.6	479.3	514.9	532.6	558.2	609.6	648.1	653.7
147.5°	442.0	453.8	465.6	468.5	489.8	518.4	532.6	552.8	593.1	623.4	628.1
150°	452.9	463.6	474.2	476.8	495.4	520.2	532.6	549.6	583.8	609.4	613.1
152.5°	464.2	472.3	480.3	482.3	499.1	521.4	532.6	547.2	576.3	598.1	601.0
155°	480.8	486.8	492.7	494.2	507.0	524.1	532.6	544.2	567.3	584.7	586.6
157.5°	493.1	498.9	504.7	506.2	514.9	526.7	532.6	541.6	559.6	573.1	574.4
160°	501.4	506.0	510.5	511.6	518.6	527.9	532.6	540.3	555.7	567.3	568.1
162.5°	509.8	513.2	516.5	517.4	522.5	529.3	532.6	539.1	552.2	561.9	562.6
165°	518.8	521.9	524.9	525.7	527.9	531.0	532.6	537.3	546.6	553.6	554.4
167.5°	527.2	528.6	530.1	530.4	532.3	534.9	536.2	539.3	545.4	550.0	550.3
170°	532.6	534.0	535.5	535.9	535.9	536.1	536.2	539.3	545.4	550.0	550.0
172.5°	535.5	535.9	536.1	536.2	536.2	536.2	536.2	538.7	543.5	547.1	546.8
175°	539.5	539.5	539.5	539.5	538.4	536.9	536.2	537.7	540.8	543.1	543.1
177.5°	539.5	539.5	539.5	539.5	538.6	537.4	536.9	538.1	540.5	542.4	542.0
180°	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1277.0	1273.5	1277.0	1274.7	1275.8	1272.3	1261.7	1258.2	1261.7	1265.3	1265.3
5°	1292.3	1290.0	1292.3	1292.3	1291.2	1288.8	1277.0	1274.7	1277.0	1278.2	1275.8
7.5°	1297.1	1293.6	1297.1	1294.7	1294.7	1292.3	1280.6	1278.2	1279.4	1282.9	1279.4
10°	1297.1	1293.6	1297.1	1295.8	1294.7	1292.3	1280.6	1275.8	1275.8	1279.4	1275.8
12.5°	1291.2	1288.8	1291.2	1288.8	1288.8	1286.4	1274.7	1269.9	1271.2	1272.3	1267.6
15°	1281.7	1278.2	1281.7	1279.4	1280.6	1277.0	1264.1	1259.4	1259.4	1261.7	1253.4
17.5°	1267.6	1262.9	1267.6	1266.4	1265.3	1262.9	1251.1	1246.4	1245.3	1246.4	1240.5
20°	1251.1	1247.5	1251.1	1249.9	1249.9	1245.3	1233.4	1227.5	1227.5	1227.5	1221.6
22.5°	1225.2	1221.6	1225.2	1227.5	1227.5	1226.4	1215.7	1207.5	1205.2	1205.2	1198.1
25°	1195.7	1192.2	1195.7	1195.7	1194.6	1195.7	1192.2	1187.5	1183.9	1180.4	1173.3
27.5°	1167.4	1165.2	1167.4	1165.2	1167.4	1163.9	1162.8	1161.6	1156.9	1153.3	1143.9
30°	1139.2	1136.9	1139.2	1136.9	1134.5	1132.1	1126.2	1123.9	1128.6	1126.2	1111.0
32.5°	1103.8	1101.5	1103.8	1103.8	1101.5	1101.5	1092.1	1088.6	1089.7	1096.8	1082.7
35°	1067.3	1063.8	1067.3	1066.2	1067.3	1063.8	1057.9	1056.8	1052.0	1060.3	1049.7
37.5°	1024.9	1021.4	1024.9	1024.9	1024.9	1027.3	1022.6	1019.0	1012.0	1022.6	1014.3
40°	981.3	976.6	981.3	980.2	981.3	983.7	981.3	979.0	971.9	980.2	973.1
42.5°	931.9	930.6	931.9	933.0	933.0	937.8	941.3	936.5	934.2	928.3	933.0
45°	878.8	876.5	878.8	881.2	882.3	884.7	895.3	895.3	891.8	882.3	889.5
47.5°	822.3	816.4	822.3	829.4	829.4	832.9	843.5	851.8	845.9	834.0	837.6
50°	762.2	763.4	762.2	766.9	766.9	779.8	788.1	796.4	802.2	788.1	771.7
52.5°	703.3	702.1	703.3	706.9	711.5	717.5	731.6	739.8	749.3	741.0	715.1
55°	644.4	646.8	644.4	645.6	647.9	651.4	672.7	680.9	698.6	688.0	660.9
57.5°	585.5	582.0	585.5	587.8	589.1	592.6	610.2	625.5	636.2	637.3	604.4
60°	517.1	512.5	517.1	527.8	530.1	532.5	548.9	563.1	572.6	576.1	541.9
62.5°	457.1	448.8	457.1	464.2	468.8	474.7	486.6	507.7	516.0	517.1	468.8
65°	393.5	390.0	393.5	407.6	408.8	415.9	428.8	444.2	461.8	459.4	390.0
67.5°	335.8	335.8	335.8	345.2	352.3	355.8	372.3	379.3	401.7	404.1	325.1
70°	282.7	281.6	282.7	289.8	294.5	302.8	318.1	326.3	344.0	349.9	263.9
72.5°	232.0	230.9	232.0	237.9	242.7	249.8	262.7	272.1	287.5	294.5	205.0
75°	187.3	185.0	187.3	192.0	190.9	200.3	210.9	220.3	234.4	239.2	151.9
77.5°	143.7	143.7	143.7	148.4	148.4	157.8	162.6	174.3	182.6	189.7	111.9
80°	107.2	106.0	107.2	108.4	108.4	113.1	121.4	129.5	136.7	136.7	76.6
82.5°	75.4	73.1	75.4	75.4	75.4	77.7	82.5	84.8	89.5	93.1	48.3
85°	47.2	47.2	47.2	48.3	47.2	49.4	50.7	53.0	53.0	50.7	29.4
87.5°	30.7	29.4	30.7	29.4	29.4	28.3	28.3	28.3	27.1	25.9	16.5
90°	13.8	13.8	13.8	13.8	13.8	18.4	24.4	27.5	23.6	15.9	10.1
92.5°	55.1	44.2	55.1	66.0	68.8	97.5	135.8	154.9	136.0	98.3	69.9
95°	192.1	159.0	192.1	225.3	233.5	306.7	404.2	452.9	382.5	241.7	136.1
97.5°	460.2	397.2	460.2	523.3	539.1	585.3	647.0	677.8	560.4	325.6	149.5
100°	663.1	587.9	663.1	738.2	757.0	753.7	749.2	746.9	616.7	356.2	160.7
102.5°	862.7	798.3	862.7	927.0	943.1	884.3	805.8	766.5	634.4	370.1	172.0
105°	1117.1	1082.5	1117.1	1151.7	1160.4	1028.4	852.3	764.3	636.4	380.6	188.7
107.5°	1283.8	1292.2	1283.8	1275.5	1273.4	1089.2	843.6	720.8	608.0	382.4	213.3
110°	1347.3	1383.4	1347.3	1311.3	1302.3	1096.4	821.9	684.6	582.9	379.6	227.0





TEST NUMBER: P934265

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1353.0	1408.4	1353.0	1297.7	1283.8	1073.1	792.1	651.7	561.1	379.7	243.6
115°	1317.1	1393.9	1317.1	1240.3	1221.2	1018.2	747.6	612.3	535.9	383.2	268.7
117.5°	1241.1	1326.2	1241.1	1155.9	1134.7	951.5	707.2	585.0	520.1	390.3	292.9
120°	1179.7	1262.5	1179.7	1097.0	1076.4	909.0	685.8	574.2	514.9	396.1	307.1
122.5°	1120.1	1201.7	1120.1	1038.5	1018.1	867.4	666.4	565.9	512.0	404.4	323.7
125°	1034.9	1110.1	1034.9	959.8	941.0	813.0	642.2	556.8	509.8	415.6	345.0
127.5°	958.3	1021.7	958.3	894.9	879.1	769.1	622.5	549.2	508.4	426.9	365.6
130°	913.2	971.8	913.2	854.6	839.9	742.1	611.6	546.3	509.2	435.0	379.4
132.5°	872.2	924.7	872.2	819.7	806.6	719.1	602.3	543.8	509.8	441.7	390.7
135°	816.1	861.3	816.1	770.9	759.6	686.2	588.4	539.5	509.2	448.9	403.7
137.5°	771.1	808.1	771.1	734.1	724.9	662.9	580.1	538.7	512.4	459.8	420.4
140°	740.1	774.7	740.1	705.5	696.9	643.4	571.9	536.2	512.9	466.5	431.6
142.5°	714.6	744.4	714.6	684.9	677.4	630.4	567.6	536.2	514.8	472.0	439.9
145°	676.3	698.8	676.3	653.7	648.1	609.6	558.2	532.6	514.9	479.3	452.6
147.5°	646.8	665.5	646.8	628.1	623.4	593.1	552.8	532.6	518.4	489.8	468.5
150°	628.2	643.4	628.2	613.1	609.4	583.8	549.6	532.6	520.2	495.4	476.8
152.5°	612.4	623.9	612.4	601.0	598.1	576.3	547.2	532.6	521.4	499.1	482.3
155°	594.2	601.7	594.2	586.6	584.7	567.3	544.2	532.6	524.1	507.0	494.2
157.5°	579.8	585.0	579.8	574.4	573.1	559.6	541.6	532.6	526.7	514.9	506.2
160°	571.2	574.2	571.2	568.1	567.3	555.7	540.3	532.6	527.9	518.6	511.6
162.5°	565.5	568.4	565.5	562.6	561.9	552.2	539.1	532.6	529.3	522.5	517.4
165°	557.4	560.4	557.4	554.4	553.6	546.6	537.3	532.6	531.0	527.9	525.7
167.5°	551.6	552.9	551.6	550.3	550.0	545.4	539.3	536.2	534.9	532.3	530.4
170°	550.0	550.0	550.0	550.0	550.0	545.4	539.3	536.2	536.1	535.9	535.9
172.5°	545.7	544.5	545.7	546.8	547.1	543.5	538.7	536.2	536.2	536.2	536.2
175°	543.1	543.1	543.1	543.1	543.1	540.8	537.7	536.2	536.9	538.4	539.5
177.5°	540.8	539.5	540.8	542.0	542.4	540.5	538.1	536.9	537.4	538.6	539.5
180°	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5



TEST NUMBER: P934265

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1262.9	1255.8	1255.8	1244.0	1239.4	1235.8	1229.9	1212.2	1207.5	1202.8	1209.9
5°	1273.5	1260.5	1251.1	1229.9	1212.2	1205.2	1182.8	1140.4	1112.1	1090.8	1079.1
7.5°	1275.8	1259.4	1241.7	1208.7	1166.3	1147.4	1079.1	1001.4	980.2	961.3	949.5
10°	1273.5	1254.7	1229.9	1180.4	1080.3	1047.3	979.0	928.3	915.4	911.9	915.4
12.5°	1265.3	1247.5	1213.4	1131.0	990.7	968.4	928.3	898.9	896.5	902.4	934.2
15°	1251.1	1234.6	1194.6	1064.9	941.3	924.8	896.5	885.9	898.9	940.1	1035.5
17.5°	1237.0	1218.1	1168.7	1000.2	903.6	891.8	871.8	893.0	966.0	1021.4	1053.2
20°	1218.1	1195.7	1139.2	953.0	876.5	865.9	856.4	951.9	1007.2	1027.3	1044.9
22.5°	1195.7	1172.2	1099.1	920.1	848.2	840.0	845.9	984.8	1007.2	1021.4	1036.7
25°	1166.3	1146.3	1052.0	894.2	825.9	816.4	838.8	981.3	994.3	997.8	1028.5
27.5°	1139.2	1113.2	1002.6	870.6	798.7	795.2	844.7	966.0	975.4	979.0	1012.0
30°	1106.2	1067.3	947.2	845.9	770.4	769.3	845.9	947.2	944.8	954.3	987.2
32.5°	1072.1	999.0	884.7	815.2	743.4	742.2	837.6	918.9	916.5	929.5	954.3
35°	1040.3	946.0	799.9	779.8	709.2	710.4	817.6	885.9	887.1	898.9	914.2
37.5°	1007.2	900.1	706.9	741.0	676.2	676.2	790.5	855.3	852.9	856.4	877.7
40°	968.4	828.2	624.4	690.3	645.6	642.0	757.5	822.3	814.0	812.9	842.3
42.5°	927.1	749.3	563.1	623.2	610.2	605.5	717.5	782.2	766.9	770.4	808.1
45°	882.3	728.0	516.0	526.6	573.7	570.2	673.8	736.3	725.7	735.1	774.0
47.5°	837.6	685.6	500.7	437.0	534.9	533.7	625.5	691.5	685.6	695.1	736.3
50°	776.3	638.5	499.5	374.6	491.2	496.0	567.8	647.9	647.9	656.2	699.7
52.5°	697.5	580.8	453.6	339.3	440.6	454.7	517.1	610.2	612.6	620.9	659.7
55°	625.5	520.7	420.5	312.1	380.5	411.1	467.7	571.3	576.1	584.3	619.6
57.5°	559.6	433.5	413.5	280.4	325.1	354.6	424.1	533.7	536.0	543.1	577.2
60°	488.9	313.4	379.3	246.2	276.8	299.2	384.1	488.9	497.1	501.9	531.3
62.5°	408.8	227.4	344.0	222.6	253.3	258.0	351.1	446.5	457.1	460.7	478.3
65°	291.0	190.9	292.1	202.6	228.5	229.8	315.7	402.9	412.4	418.2	431.2
67.5°	196.7	155.5	222.6	183.7	209.7	210.9	281.6	352.3	365.2	369.9	378.2
70°	136.7	103.6	164.9	163.7	188.5	190.9	245.0	306.3	318.1	321.6	326.3
72.5°	100.1	83.6	136.7	147.3	166.1	168.5	207.4	254.4	266.2	269.8	272.1
75°	76.6	88.4	110.8	128.4	141.4	142.5	169.6	207.4	215.6	217.9	219.1
77.5°	61.2	82.5	81.3	103.6	115.4	113.1	133.2	160.2	167.3	167.3	167.3
80°	45.9	64.8	61.2	74.2	84.8	82.5	95.4	114.3	116.6	119.0	117.8
82.5°	34.2	41.2	41.2	47.2	56.6	54.2	63.6	74.2	74.2	74.2	76.6
85°	21.2	23.5	18.9	24.8	31.8	30.7	35.3	40.1	41.2	41.2	38.9
87.5°	13.0	10.6	5.9	9.4	14.1	14.1	16.5	17.7	16.5	16.5	16.5
90°	9.4	6.5	3.6	6.5	9.4	10.1	15.9	23.6	27.5	24.4	18.4
92.5°	63.8	39.1	14.5	39.1	63.8	69.9	98.3	136.0	154.9	135.8	97.5
95°	124.9	79.8	34.8	79.8	124.9	136.1	241.7	382.5	452.9	404.2	306.7
97.5°	139.6	99.8	60.1	99.8	139.6	149.5	325.6	560.4	677.8	647.0	585.3
100°	151.7	115.7	79.7	115.7	151.7	160.7	356.2	616.7	746.9	749.2	753.7
102.5°	163.5	130.0	96.3	130.0	163.5	172.0	370.1	634.4	766.5	805.8	884.3
105°	181.5	153.0	124.5	153.0	181.5	188.7	380.6	636.4	764.3	852.3	1028.4
107.5°	206.6	180.1	153.5	180.1	206.6	213.3	382.4	608.0	720.8	843.6	1089.2
110°	221.1	197.0	173.0	197.0	221.1	227.0	379.6	582.9	684.6	821.9	1096.4



TEST NUMBER: P934265

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	237.9	215.1	192.3	215.1	237.9	243.6	379.7	561.1	651.7	792.1	1073.1
115°	263.4	242.3	221.2	242.3	263.4	268.7	383.2	535.9	612.3	747.6	1018.2
117.5°	288.1	268.9	249.8	268.9	288.1	292.9	390.3	520.1	585.0	707.2	951.5
120°	302.6	284.5	266.5	284.5	302.6	307.1	396.1	514.9	574.2	685.8	909.0
122.5°	319.1	300.9	282.7	300.9	319.1	323.7	404.4	512.0	565.9	666.4	867.4
125°	340.9	324.3	307.8	324.3	340.9	345.0	415.6	509.8	556.8	642.2	813.0
127.5°	361.4	344.7	328.0	344.7	361.4	365.6	426.9	508.4	549.2	622.5	769.1
130°	374.9	356.9	338.8	356.9	374.9	379.4	435.0	509.2	546.3	611.6	742.1
132.5°	386.2	368.1	350.1	368.1	386.2	390.7	441.7	509.8	543.8	602.3	719.1
135°	399.5	383.2	366.8	383.2	399.5	403.7	448.9	509.2	539.5	588.4	686.2
137.5°	416.3	400.1	383.8	400.1	416.3	420.4	459.8	512.4	538.7	580.1	662.9
140°	427.8	412.9	397.9	412.9	427.8	431.6	466.5	512.9	536.2	571.9	643.4
142.5°	436.4	422.6	408.8	422.6	436.4	439.9	472.0	514.8	536.2	567.6	630.4
145°	449.6	437.5	425.4	437.5	449.6	452.6	479.3	514.9	532.6	558.2	609.6
147.5°	465.6	453.8	442.0	453.8	465.6	468.5	489.8	518.4	532.6	552.8	593.1
150°	474.2	463.6	452.9	463.6	474.2	476.8	495.4	520.2	532.6	549.6	583.8
152.5°	480.3	472.3	464.2	472.3	480.3	482.3	499.1	521.4	532.6	547.2	576.3
155°	492.7	486.8	480.8	486.8	492.7	494.2	507.0	524.1	532.6	544.2	567.3
157.5°	504.7	498.9	493.1	498.9	504.7	506.2	514.9	526.7	532.6	541.6	559.6
160°	510.5	506.0	501.4	506.0	510.5	511.6	518.6	527.9	532.6	540.3	555.7
162.5°	516.5	513.2	509.8	513.2	516.5	517.4	522.5	529.3	532.6	539.1	552.2
165°	524.9	521.9	518.8	521.9	524.9	525.7	527.9	531.0	532.6	537.3	546.6
167.5°	530.1	528.6	527.2	528.6	530.1	530.4	532.3	534.9	536.2	539.3	545.4
170°	535.5	534.0	532.6	534.0	535.5	535.9	535.9	536.1	536.2	539.3	545.4
172.5°	536.1	535.9	535.5	535.9	536.1	536.2	536.2	536.2	536.2	538.7	543.5
175°	539.5	539.5	539.5	539.5	539.5	539.5	538.4	536.9	536.2	537.7	540.8
177.5°	539.5	539.5	539.5	539.5	539.5	539.5	538.6	537.4	536.9	538.1	540.5
180°	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5



TEST NUMBER: P934265

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1201.6	1198.1	1202.8	1189.8	1202.8	1198.1	1201.6	1209.9	1202.8	1207.5	1212.2
5°	1054.4	1048.5	1029.6	1014.3	1029.6	1048.5	1054.4	1079.1	1090.8	1112.1	1140.4
7.5°	942.4	937.8	933.0	923.6	933.0	937.8	942.4	949.5	961.3	980.2	1001.4
10°	917.7	918.9	926.0	924.8	926.0	918.9	917.7	915.4	911.9	915.4	928.3
12.5°	981.3	992.0	1030.8	1028.5	1030.8	992.0	981.3	934.2	902.4	896.5	898.9
15°	1054.4	1057.9	1066.2	1067.3	1066.2	1057.9	1054.4	1035.5	940.1	898.9	885.9
17.5°	1061.4	1062.7	1068.5	1068.5	1068.5	1062.7	1061.4	1053.2	1021.4	966.0	893.0
20°	1055.5	1057.9	1069.7	1072.1	1069.7	1057.9	1055.5	1044.9	1027.3	1007.2	951.9
22.5°	1053.2	1057.9	1067.3	1066.2	1067.3	1057.9	1053.2	1036.7	1021.4	1007.2	984.8
25°	1041.4	1041.4	1042.6	1043.8	1042.6	1041.4	1041.4	1028.5	997.8	994.3	981.3
27.5°	1016.6	1019.0	1026.1	1024.9	1026.1	1019.0	1016.6	1012.0	979.0	975.4	966.0
30°	994.3	992.0	986.1	981.3	986.1	992.0	994.3	987.2	954.3	944.8	947.2
32.5°	956.6	950.7	944.8	941.3	944.8	950.7	956.6	954.3	929.5	916.5	918.9
35°	911.9	913.0	911.9	908.3	911.9	913.0	911.9	914.2	898.9	887.1	885.9
37.5°	880.1	882.3	881.2	876.5	881.2	882.3	880.1	877.7	856.4	852.9	855.3
40°	847.0	848.2	847.0	843.5	847.0	848.2	847.0	842.3	812.9	814.0	822.3
42.5°	815.2	814.0	810.5	808.1	810.5	814.0	815.2	808.1	770.4	766.9	782.2
45°	778.7	779.8	772.8	769.3	772.8	779.8	778.7	774.0	735.1	725.7	736.3
47.5°	742.2	742.2	736.3	732.8	736.3	742.2	742.2	736.3	695.1	685.6	691.5
50°	703.3	702.1	693.9	692.7	693.9	702.1	703.3	699.7	656.2	647.9	647.9
52.5°	658.6	658.6	659.7	662.1	659.7	658.6	658.6	659.7	620.9	612.6	610.2
55°	619.6	620.9	629.1	631.4	629.1	620.9	619.6	619.6	584.3	576.1	571.3
57.5°	579.6	579.6	585.5	585.5	585.5	579.6	579.6	577.2	543.1	536.0	533.7
60°	533.7	536.0	540.8	539.5	540.8	536.0	533.7	531.3	501.9	497.1	488.9
62.5°	485.3	487.7	488.9	486.6	488.9	487.7	485.3	478.3	460.7	457.1	446.5
65°	434.7	437.0	438.3	435.9	438.3	437.0	434.7	431.2	418.2	412.4	402.9
67.5°	382.9	381.7	380.5	385.2	380.5	381.7	382.9	378.2	369.9	365.2	352.3
70°	329.9	329.9	328.7	331.0	328.7	329.9	329.9	326.3	321.6	318.1	306.3
72.5°	273.3	272.1	276.8	273.3	276.8	272.1	273.3	272.1	269.8	266.2	254.4
75°	217.9	220.3	217.9	221.5	217.9	220.3	217.9	219.1	217.9	215.6	207.4
77.5°	166.1	168.5	166.1	166.1	166.1	168.5	166.1	167.3	167.3	167.3	160.2
80°	117.8	116.6	116.6	115.4	116.6	116.6	117.8	117.8	119.0	116.6	114.3
82.5°	75.4	74.2	74.2	76.6	74.2	74.2	75.4	76.6	74.2	74.2	74.2
85°	41.2	42.4	40.1	40.1	40.1	42.4	41.2	38.9	41.2	41.2	40.1
87.5°	15.3	14.1	14.1	14.1	14.1	14.1	15.3	16.5	16.5	16.5	17.7
90°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	18.4	24.4	27.5	23.6
92.5°	68.8	66.0	55.1	44.2	55.1	66.0	68.8	97.5	135.8	154.9	136.0
95°	233.5	225.3	192.1	159.0	192.1	225.3	233.5	306.7	404.2	452.9	382.5
97.5°	539.1	523.3	460.2	397.2	460.2	523.3	539.1	585.3	647.0	677.8	560.4
100°	757.0	738.2	663.1	587.9	663.1	738.2	757.0	753.7	749.2	746.9	616.7
102.5°	943.1	927.0	862.7	798.3	862.7	927.0	943.1	884.3	805.8	766.5	634.4
105°	1160.4	1151.7	1117.1	1082.5	1117.1	1151.7	1160.4	1028.4	852.3	764.3	636.4
107.5°	1273.4	1275.5	1283.8	1292.2	1283.8	1275.5	1273.4	1089.2	843.6	720.8	608.0
110°	1302.3	1311.3	1347.3	1383.4	1347.3	1311.3	1302.3	1096.4	821.9	684.6	582.9



TEST NUMBER: P934265

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1283.8	1297.7	1353.0	1408.4	1353.0	1297.7	1283.8	1073.1	792.1	651.7	561.1
115°	1221.2	1240.3	1317.1	1393.9	1317.1	1240.3	1221.2	1018.2	747.6	612.3	535.9
117.5°	1134.7	1155.9	1241.1	1326.2	1241.1	1155.9	1134.7	951.5	707.2	585.0	520.1
120°	1076.4	1097.0	1179.7	1262.5	1179.7	1097.0	1076.4	909.0	685.8	574.2	514.9
122.5°	1018.1	1038.5	1120.1	1201.7	1120.1	1038.5	1018.1	867.4	666.4	565.9	512.0
125°	941.0	959.8	1034.9	1110.1	1034.9	959.8	941.0	813.0	642.2	556.8	509.8
127.5°	879.1	894.9	958.3	1021.7	958.3	894.9	879.1	769.1	622.5	549.2	508.4
130°	839.9	854.6	913.2	971.8	913.2	854.6	839.9	742.1	611.6	546.3	509.2
132.5°	806.6	819.7	872.2	924.7	872.2	819.7	806.6	719.1	602.3	543.8	509.8
135°	759.6	770.9	816.1	861.3	816.1	770.9	759.6	686.2	588.4	539.5	509.2
137.5°	724.9	734.1	771.1	808.1	771.1	734.1	724.9	662.9	580.1	538.7	512.4
140°	696.9	705.5	740.1	774.7	740.1	705.5	696.9	643.4	571.9	536.2	512.9
142.5°	677.4	684.9	714.6	744.4	714.6	684.9	677.4	630.4	567.6	536.2	514.8
145°	648.1	653.7	676.3	698.8	676.3	653.7	648.1	609.6	558.2	532.6	514.9
147.5°	623.4	628.1	646.8	665.5	646.8	628.1	623.4	593.1	552.8	532.6	518.4
150°	609.4	613.1	628.2	643.4	628.2	613.1	609.4	583.8	549.6	532.6	520.2
152.5°	598.1	601.0	612.4	623.9	612.4	601.0	598.1	576.3	547.2	532.6	521.4
155°	584.7	586.6	594.2	601.7	594.2	586.6	584.7	567.3	544.2	532.6	524.1
157.5°	573.1	574.4	579.8	585.0	579.8	574.4	573.1	559.6	541.6	532.6	526.7
160°	567.3	568.1	571.2	574.2	571.2	568.1	567.3	555.7	540.3	532.6	527.9
162.5°	561.9	562.6	565.5	568.4	565.5	562.6	561.9	552.2	539.1	532.6	529.3
165°	553.6	554.4	557.4	560.4	557.4	554.4	553.6	546.6	537.3	532.6	531.0
167.5°	550.0	550.3	551.6	552.9	551.6	550.3	550.0	545.4	539.3	536.2	534.9
170°	550.0	550.0	550.0	550.0	550.0	550.0	550.0	545.4	539.3	536.2	536.1
172.5°	547.1	546.8	545.7	544.5	545.7	546.8	547.1	543.5	538.7	536.2	536.2
175°	543.1	543.1	543.1	543.1	543.1	543.1	543.1	540.8	537.7	536.2	536.9
177.5°	542.4	542.0	540.8	539.5	540.8	542.0	542.4	540.5	538.1	536.9	537.4
180°	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5	539.5



TEST NUMBER: P934265

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1229.9	1235.8	1239.4	1244.0	1255.8
5°	1182.8	1205.2	1212.2	1229.9	1251.1
7.5°	1079.1	1147.4	1166.3	1208.7	1241.7
10°	979.0	1047.3	1080.3	1180.4	1229.9
12.5°	928.3	968.4	990.7	1131.0	1213.4
15°	896.5	924.8	941.3	1064.9	1194.6
17.5°	871.8	891.8	903.6	1000.2	1168.7
20°	856.4	865.9	876.5	953.0	1139.2
22.5°	845.9	840.0	848.2	920.1	1099.1
25°	838.8	816.4	825.9	894.2	1052.0
27.5°	844.7	795.2	798.7	870.6	1002.6
30°	845.9	769.3	770.4	845.9	947.2
32.5°	837.6	742.2	743.4	815.2	884.7
35°	817.6	710.4	709.2	779.8	799.9
37.5°	790.5	676.2	676.2	741.0	706.9
40°	757.5	642.0	645.6	690.3	624.4
42.5°	717.5	605.5	610.2	623.2	563.1
45°	673.8	570.2	573.7	526.6	516.0
47.5°	625.5	533.7	534.9	437.0	500.7
50°	567.8	496.0	491.2	374.6	499.5
52.5°	517.1	454.7	440.6	339.3	453.6
55°	467.7	411.1	380.5	312.1	420.5
57.5°	424.1	354.6	325.1	280.4	413.5
60°	384.1	299.2	276.8	246.2	379.3
62.5°	351.1	258.0	253.3	222.6	344.0
65°	315.7	229.8	228.5	202.6	292.1
67.5°	281.6	210.9	209.7	183.7	222.6
70°	245.0	190.9	188.5	163.7	164.9
72.5°	207.4	168.5	166.1	147.3	136.7
75°	169.6	142.5	141.4	128.4	110.8
77.5°	133.2	113.1	115.4	103.6	81.3
80°	95.4	82.5	84.8	74.2	61.2
82.5°	63.6	54.2	56.6	47.2	41.2
85°	35.3	30.7	31.8	24.8	18.9
87.5°	16.5	14.1	14.1	9.4	5.9
90°	15.9	10.1	9.4	6.5	3.6
92.5°	98.3	69.9	63.8	39.1	14.5
95°	241.7	136.1	124.9	79.8	34.8
97.5°	325.6	149.5	139.6	99.8	60.1
100°	356.2	160.7	151.7	115.7	79.7
102.5°	370.1	172.0	163.5	130.0	96.3
105°	380.6	188.7	181.5	153.0	124.5
107.5°	382.4	213.3	206.6	180.1	153.5
110°	379.6	227.0	221.1	197.0	173.0



TEST NUMBER: P934265  
 CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	379.7	243.6	237.9	215.1	192.3
115°	383.2	268.7	263.4	242.3	221.2
117.5°	390.3	292.9	288.1	268.9	249.8
120°	396.1	307.1	302.6	284.5	266.5
122.5°	404.4	323.7	319.1	300.9	282.7
125°	415.6	345.0	340.9	324.3	307.8
127.5°	426.9	365.6	361.4	344.7	328.0
130°	435.0	379.4	374.9	356.9	338.8
132.5°	441.7	390.7	386.2	368.1	350.1
135°	448.9	403.7	399.5	383.2	366.8
137.5°	459.8	420.4	416.3	400.1	383.8
140°	466.5	431.6	427.8	412.9	397.9
142.5°	472.0	439.9	436.4	422.6	408.8
145°	479.3	452.6	449.6	437.5	425.4
147.5°	489.8	468.5	465.6	453.8	442.0
150°	495.4	476.8	474.2	463.6	452.9
152.5°	499.1	482.3	480.3	472.3	464.2
155°	507.0	494.2	492.7	486.8	480.8
157.5°	514.9	506.2	504.7	498.9	493.1
160°	518.6	511.6	510.5	506.0	501.4
162.5°	522.5	517.4	516.5	513.2	509.8
165°	527.9	525.7	524.9	521.9	518.8
167.5°	532.3	530.4	530.1	528.6	527.2
170°	535.9	535.9	535.5	534.0	532.6
172.5°	536.2	536.2	536.1	535.9	535.5
175°	538.4	539.5	539.5	539.5	539.5
177.5°	538.6	539.5	539.5	539.5	539.5
180°	539.5	539.5	539.5	539.5	539.5



TEST NUMBER: P934265  
 CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-8-3000K

**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	10.72	11.56	11.69	12.55	13.85	13.55	14.40	14.53	15.38	16.68
	3H	11.19	11.95	12.18	12.94	14.26	14.90	15.66	15.88	16.65	17.97
	4H	11.38	12.10	12.38	13.10	14.43	15.34	16.06	16.34	17.06	18.39
	6H	11.50	12.16	12.51	13.16	14.50	15.63	16.29	16.64	17.29	18.64
	8H	11.50	12.13	12.51	13.15	14.49	15.71	16.33	16.72	17.35	18.69
	12H	11.47	12.07	12.49	13.08	14.44	15.74	16.34	16.76	17.36	18.72
4H	2H	11.75	12.46	12.75	13.46	14.79	13.96	14.67	14.96	15.68	17.00
	3H	12.77	13.37	13.79	14.40	15.74	15.47	16.06	16.48	17.09	18.43
	4H	13.05	13.59	14.07	14.62	15.98	15.99	16.54	17.02	17.56	18.93
	6H	13.17	13.64	14.20	14.69	16.05	16.36	16.83	17.39	17.88	19.24
	8H	13.18	13.62	14.21	14.65	16.03	16.47	16.91	17.50	17.94	19.32
	12H	13.14	13.54	14.20	14.59	15.97	16.53	16.92	17.58	17.97	19.36
8H	4H	13.50	13.94	14.53	14.98	16.35	16.12	16.56	17.15	17.59	18.97
	6H	13.76	14.12	14.82	15.20	16.58	16.56	16.92	17.61	18.00	19.37
	8H	13.80	14.12	14.87	15.19	16.58	16.71	17.03	17.77	18.09	19.49
	12H	13.79	14.07	14.86	15.13	16.56	16.81	17.09	17.88	18.15	19.58
12H	4H	13.51	13.90	14.56	14.96	16.34	16.08	16.48	17.13	17.53	18.91
	6H	13.82	14.14	14.89	15.21	16.60	16.55	16.87	17.62	17.94	19.33
	8H	13.89	14.17	14.96	15.23	16.66	16.71	16.99	17.78	18.05	19.49