

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: P934293

Luminaire Tested: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934293
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-B2750-1D-UNV-STD-W-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

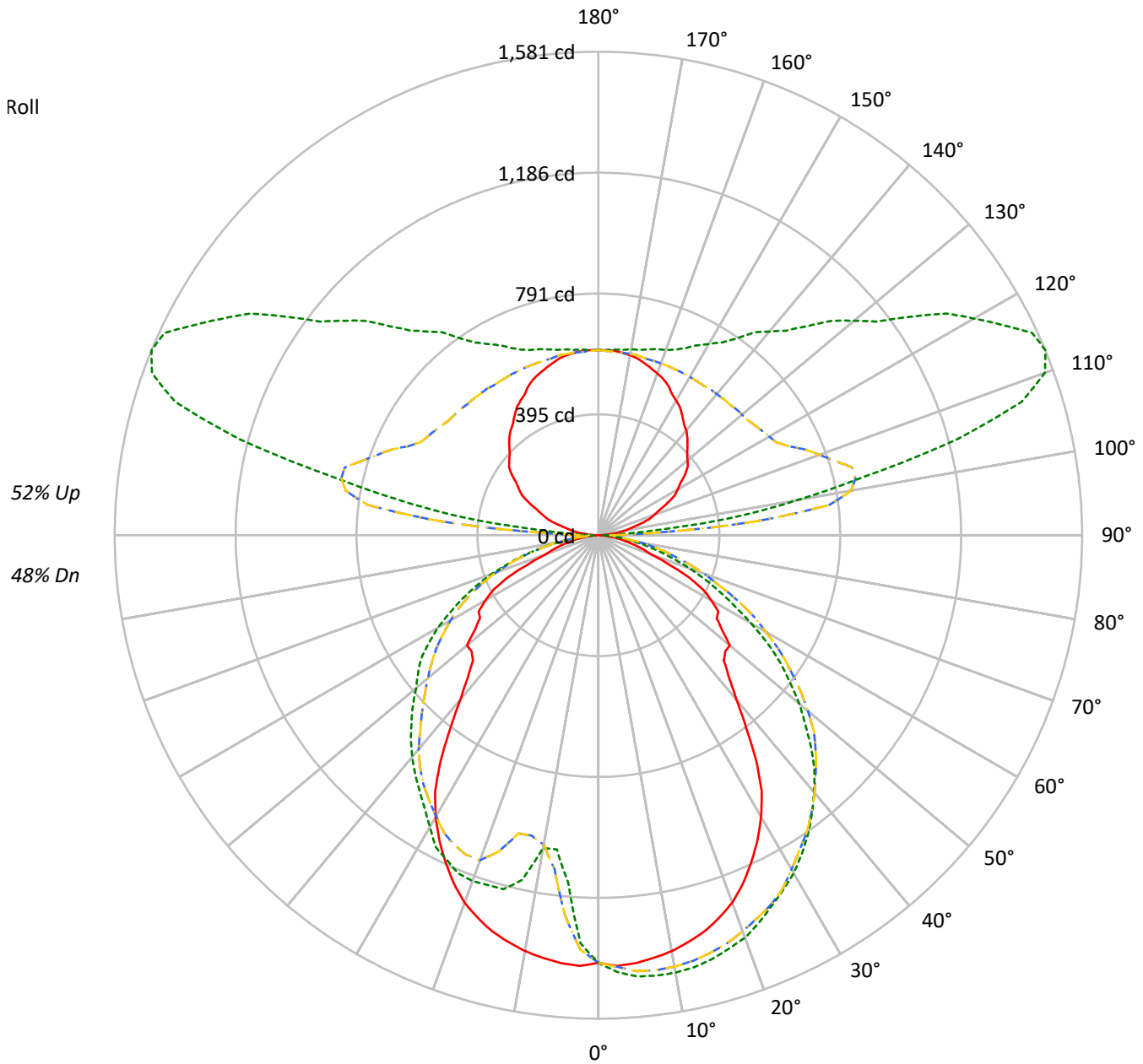
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7552.8 lumens
Efficiency: N/A
Efficacy: 133.0 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6486	6486	6486	6486
5°	6535	6547	6535	5148
10°	6490	6449	6490	4611
15°	6420	6309	6420	5269
20°	6285	6144	6285	5280
25°	6011	5903	6011	5168
30°	5656	5702	5656	4922
35°	5042	5448	5042	4652
40°	4201	5150	4201	4448
45°	3754	4800	3754	4214
50°	3988	4384	3988	3978
55°	3752	3935	3752	3842
60°	3868	3342	3868	3519
65°	3506	2763	3506	3089
70°	2429	2202	2429	2589
75°	2129	1628	2129	1949
80°	1714	1076	1714	1172
85°	987	570	987	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5753 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	1.7
10°-20°	358.3	4.7
20°-30°	553.8	7.3
30°-40°	661.2	8.8
40°-50°	665.0	8.8
50°-60°	578.7	7.7
60°-70°	410.3	5.4
70°-80°	217.1	2.9
80°-90°	56.4	0.7
90°-100°	295.2	3.9
100°-110°	776.1	10.3
110°-120°	804.7	10.7
120°-130°	645.5	8.5
130°-140°	506.5	6.7
140°-150°	388.8	5.1
150°-160°	280.0	3.7
160°-170°	171.3	2.3
170°-180°	57.9	0.8
0°-30°	1038.3	13.7
0°-40°	1699.5	22.5
0°-60°	2943.1	39.0
0°-90°	3626.8	48.0
90°-120°	1876.0	24.8
90°-150°	3416.8	45.2
90°-180°	3926.0	52.0
0°-180°	7552.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1398	1398	1398	1398	1398	
5°	1405	1448	1405	1139	1405	133
15°	1341	1435	1341	1198	1341	377
25°	1181	1338	1181	1172	1181	542
35°	898	1194	898	1020	898	556
45°	579	984	579	864	579	464
55°	472	726	472	709	472	434
65°	328	438	328	489	328	313
75°	124	208	124	249	124	131
85°	21	53	21	45	21	29
90°	4	16	4	16	4	4
95°	39	178	39	178	39	43
105°	140	1215	140	1215	140	148
115°	248	1565	248	1565	248	245
125°	346	1246	346	1246	346	307
135°	412	967	412	967	412	319
145°	478	784	478	784	478	299
155°	540	676	540	676	540	248
165°	582	629	582	629	582	164
175°	606	610	606	610	606	57
180°	606	606	606	606	606	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1409.8	1409.8	1417.8	1420.4	1420.4	1416.4	1412.4	1416.4	1428.3	1432.3	1431.0
5°	1404.6	1415.1	1429.7	1432.3	1434.9	1433.6	1431.0	1433.6	1446.9	1449.5	1450.8
7.5°	1393.9	1413.8	1432.3	1436.3	1440.3	1436.3	1434.9	1437.6	1450.8	1453.5	1453.5
10°	1380.7	1408.5	1429.7	1432.3	1436.3	1432.3	1432.3	1437.6	1450.8	1453.5	1454.7
12.5°	1362.2	1400.5	1420.4	1423.0	1428.3	1427.0	1425.7	1431.0	1444.2	1446.9	1446.9
15°	1341.1	1386.0	1404.6	1407.1	1416.4	1413.8	1413.8	1419.1	1433.6	1437.6	1436.3
17.5°	1312.0	1367.5	1388.7	1392.6	1399.2	1398.0	1399.2	1404.6	1417.8	1420.4	1421.7
20°	1278.8	1342.3	1367.5	1371.4	1378.0	1378.0	1378.0	1384.6	1398.0	1403.2	1403.2
22.5°	1233.9	1315.9	1342.3	1345.0	1353.0	1353.0	1355.6	1364.8	1376.8	1378.0	1378.0
25°	1181.0	1286.8	1309.3	1317.2	1325.2	1329.1	1333.1	1338.4	1342.3	1341.1	1342.3
27.5°	1125.5	1249.8	1278.8	1284.2	1294.7	1298.8	1304.0	1305.4	1306.6	1310.6	1308.0
30°	1063.3	1198.2	1241.9	1247.2	1264.3	1267.0	1261.7	1264.3	1271.0	1273.6	1276.3
32.5°	993.2	1121.5	1203.5	1215.4	1231.3	1223.3	1222.0	1226.0	1236.5	1236.5	1239.2
35°	898.0	1062.0	1167.8	1178.4	1190.3	1181.0	1186.4	1187.6	1194.2	1198.2	1196.9
37.5°	793.5	1010.5	1130.7	1138.7	1148.0	1136.1	1144.0	1148.0	1153.2	1150.6	1150.6
40°	700.9	929.7	1087.2	1092.4	1100.4	1091.1	1099.0	1101.7	1104.3	1101.7	1100.4
42.5°	632.1	841.2	1040.8	1047.4	1042.1	1048.8	1051.4	1056.7	1052.8	1047.4	1047.4
45°	579.3	817.3	990.5	998.5	990.5	1001.2	1005.1	1005.1	993.2	990.5	989.3
47.5°	562.1	769.7	940.3	940.3	936.3	949.6	956.2	947.0	935.0	931.1	931.1
50°	560.7	716.8	871.5	866.3	884.7	900.6	894.0	884.7	875.5	861.0	861.0
52.5°	509.2	652.0	783.0	802.8	831.9	841.2	830.5	821.3	805.5	798.8	793.5
55°	472.1	584.6	702.2	742.0	772.3	784.3	764.4	755.2	731.3	727.4	724.7
57.5°	464.2	486.7	628.2	678.5	715.4	714.2	702.2	685.1	665.3	661.3	659.9
60°	425.9	351.8	548.8	608.4	646.7	642.8	632.1	616.2	597.8	595.1	592.5
62.5°	386.2	255.3	458.9	526.3	580.6	579.3	570.0	546.2	532.9	526.3	521.1
65°	327.9	214.3	326.7	437.8	515.8	518.4	498.6	481.4	466.9	458.9	457.6
67.5°	250.0	174.6	220.9	365.0	453.7	451.0	425.9	418.0	399.4	395.5	387.5
70°	185.2	116.3	153.4	296.3	392.8	386.2	366.3	357.1	339.9	330.6	325.4
72.5°	153.4	93.9	112.4	230.1	330.6	322.7	305.5	294.9	280.4	272.4	267.1
75°	124.3	99.2	86.0	170.6	268.5	263.2	247.3	236.7	224.8	214.3	215.5
77.5°	91.3	92.6	68.7	125.6	213.0	205.0	195.7	182.5	177.2	166.6	166.6
80°	68.7	72.8	51.6	86.0	153.4	153.4	145.4	136.3	127.0	121.7	121.7
82.5°	46.2	46.2	38.4	54.2	104.5	100.5	95.2	92.6	87.3	84.6	84.6
85°	21.2	26.4	23.8	33.0	56.9	59.6	59.6	56.9	55.5	52.9	54.2
87.5°	6.6	11.9	14.6	18.5	29.1	30.5	31.7	31.7	31.7	33.0	33.0
90°	4.0	7.3	10.6	11.3	17.8	26.5	30.9	27.4	20.6	15.5	15.5
92.5°	16.3	43.9	71.6	78.5	110.3	152.7	173.9	152.4	109.4	77.2	74.1
95°	39.0	89.6	140.2	152.8	271.3	429.4	508.5	453.8	344.3	262.2	252.9
97.5°	67.4	112.0	156.7	167.8	365.5	629.1	760.9	726.3	657.1	605.2	587.5
100°	89.4	129.9	170.3	180.4	399.8	692.3	838.5	841.1	846.1	849.8	828.7
102.5°	108.2	145.9	183.6	193.1	415.5	712.2	860.5	904.6	992.7	1058.8	1040.7
105°	139.8	171.8	203.8	211.8	427.2	714.5	858.0	956.8	1154.5	1302.7	1292.9
107.5°	172.4	202.1	231.9	239.4	429.3	682.6	809.2	947.1	1222.7	1429.5	1431.9
110°	194.2	221.2	248.2	254.9	426.1	654.4	768.6	922.7	1230.8	1461.9	1472.1



TEST NUMBER: P934293

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	215.8	241.5	267.1	273.5	426.2	629.9	731.6	889.3	1204.7	1441.2	1456.8
115°	248.4	272.0	295.7	301.6	430.2	601.7	687.3	839.3	1143.1	1370.9	1392.4
117.5°	280.4	301.9	323.4	328.8	438.2	583.9	656.8	793.9	1068.1	1273.8	1297.7
120°	299.2	319.4	339.7	344.7	444.7	578.0	644.6	769.9	1020.4	1208.3	1231.5
122.5°	317.4	337.8	358.2	363.3	454.0	574.8	635.3	748.1	973.8	1143.0	1165.8
125°	345.5	364.0	382.7	387.3	466.6	572.3	625.1	721.0	912.6	1056.4	1077.5
127.5°	368.3	387.0	405.7	410.5	479.2	570.8	616.5	698.9	863.4	986.9	1004.6
130°	380.4	400.6	420.9	426.0	488.4	571.7	613.3	686.6	833.1	942.9	959.4
132.5°	393.0	413.2	433.5	438.6	495.9	572.3	610.5	676.1	807.2	905.5	920.2
135°	411.8	430.2	448.5	453.2	503.9	571.7	605.6	660.5	770.4	852.7	865.4
137.5°	430.9	449.1	467.4	471.9	516.2	575.2	604.8	651.3	744.1	813.7	824.1
140°	446.7	463.5	480.3	484.5	523.7	575.8	602.0	642.1	722.2	782.4	792.1
142.5°	458.9	474.4	489.9	493.8	529.9	577.9	602.0	637.2	707.7	760.5	768.9
145°	477.6	491.1	504.7	508.1	538.1	578.0	597.9	626.7	684.4	727.6	733.9
147.5°	496.3	509.5	522.7	525.9	549.9	581.9	597.9	620.6	665.8	699.9	705.1
150°	508.5	520.4	532.3	535.3	556.2	584.0	597.9	617.0	655.4	684.1	688.3
152.5°	521.1	530.2	539.1	541.4	560.2	585.4	597.9	614.3	646.9	671.5	674.7
155°	539.7	546.4	553.1	554.8	569.2	588.3	597.9	610.9	636.9	656.4	658.5
157.5°	553.5	560.0	566.6	568.2	578.1	591.3	597.9	608.0	628.2	643.4	644.8
160°	562.9	568.0	573.1	574.3	582.2	592.7	597.9	606.6	623.8	636.9	637.7
162.5°	572.3	576.1	579.9	580.9	586.6	594.2	597.9	605.2	619.9	630.8	631.6
165°	582.4	585.9	589.2	590.1	592.7	596.1	597.9	603.1	613.6	621.5	622.4
167.5°	591.8	593.4	595.1	595.4	597.6	600.5	602.0	605.4	612.3	617.4	617.8
170°	597.9	599.5	601.2	601.6	601.7	601.9	602.0	605.4	612.3	617.4	617.4
172.5°	601.2	601.6	601.9	602.0	602.0	602.0	602.0	604.7	610.1	614.2	613.9
175°	605.6	605.6	605.6	605.6	604.4	602.7	602.0	603.6	607.1	609.6	609.6
177.5°	605.6	605.6	605.6	605.6	604.6	603.3	602.7	604.1	606.8	608.9	608.5
180°	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1433.6	1429.7	1433.6	1431.0	1432.3	1428.3	1416.4	1412.4	1416.4	1420.4	1420.4
5°	1450.8	1448.1	1450.8	1450.8	1449.5	1446.9	1433.6	1431.0	1433.6	1434.9	1432.3
7.5°	1456.1	1452.2	1456.1	1453.5	1453.5	1450.8	1437.6	1434.9	1436.3	1440.3	1436.3
10°	1456.1	1452.2	1456.1	1454.7	1453.5	1450.8	1437.6	1432.3	1432.3	1436.3	1432.3
12.5°	1449.5	1446.9	1449.5	1446.9	1446.9	1444.2	1431.0	1425.7	1427.0	1428.3	1423.0
15°	1438.9	1434.9	1438.9	1436.3	1437.6	1433.6	1419.1	1413.8	1413.8	1416.4	1407.1
17.5°	1423.0	1417.8	1423.0	1421.7	1420.4	1417.8	1404.6	1399.2	1398.0	1399.2	1392.6
20°	1404.6	1400.5	1404.6	1403.2	1403.2	1398.0	1384.6	1378.0	1378.0	1378.0	1371.4
22.5°	1375.5	1371.4	1375.5	1378.0	1378.0	1376.8	1364.8	1355.6	1353.0	1353.0	1345.0
25°	1342.3	1338.4	1342.3	1342.3	1341.1	1342.3	1338.4	1333.1	1329.1	1325.2	1317.2
27.5°	1310.6	1308.0	1310.6	1308.0	1310.6	1306.6	1305.4	1304.0	1298.8	1294.7	1284.2
30°	1278.8	1276.3	1278.8	1276.3	1273.6	1271.0	1264.3	1261.7	1267.0	1264.3	1247.2
32.5°	1239.2	1236.5	1239.2	1239.2	1236.5	1236.5	1226.0	1222.0	1223.3	1231.3	1215.4
35°	1198.2	1194.2	1198.2	1196.9	1198.2	1194.2	1187.6	1186.4	1181.0	1190.3	1178.4
37.5°	1150.6	1146.6	1150.6	1150.6	1150.6	1153.2	1148.0	1144.0	1136.1	1148.0	1138.7
40°	1101.7	1096.3	1101.7	1100.4	1101.7	1104.3	1101.7	1099.0	1091.1	1100.4	1092.4
42.5°	1046.1	1044.8	1046.1	1047.4	1047.4	1052.8	1056.7	1051.4	1048.8	1042.1	1047.4
45°	986.6	983.9	986.6	989.3	990.5	993.2	1005.1	1005.1	1001.2	990.5	998.5
47.5°	923.1	916.5	923.1	931.1	931.1	935.0	947.0	956.2	949.6	936.3	940.3
50°	855.7	857.0	855.7	861.0	861.0	875.5	884.7	894.0	900.6	884.7	866.3
52.5°	789.6	788.2	789.6	793.5	798.8	805.5	821.3	830.5	841.2	831.9	802.8
55°	723.4	726.1	723.4	724.7	727.4	731.3	755.2	764.4	784.3	772.3	742.0
57.5°	657.3	653.3	657.3	659.9	661.3	665.3	685.1	702.2	714.2	715.4	678.5
60°	580.6	575.3	580.6	592.5	595.1	597.8	616.2	632.1	642.8	646.7	608.4
62.5°	513.1	503.8	513.1	521.1	526.3	532.9	546.2	570.0	579.3	580.6	526.3
65°	441.7	437.8	441.7	457.6	458.9	466.9	481.4	498.6	518.4	515.8	437.8
67.5°	376.9	376.9	376.9	387.5	395.5	399.4	418.0	425.9	451.0	453.7	365.0
70°	317.4	316.1	317.4	325.4	330.6	339.9	357.1	366.3	386.2	392.8	296.3
72.5°	260.5	259.2	260.5	267.1	272.4	280.4	294.9	305.5	322.7	330.6	230.1
75°	210.3	207.7	210.3	215.5	214.3	224.8	236.7	247.3	263.2	268.5	170.6
77.5°	161.3	161.3	161.3	166.6	166.6	177.2	182.5	195.7	205.0	213.0	125.6
80°	120.4	119.0	120.4	121.7	121.7	127.0	136.3	145.4	153.4	153.4	86.0
82.5°	84.6	82.0	84.6	84.6	84.6	87.3	92.6	95.2	100.5	104.5	54.2
85°	52.9	52.9	52.9	54.2	52.9	55.5	56.9	59.6	59.6	56.9	33.0
87.5°	34.4	33.0	34.4	33.0	33.0	31.7	31.7	31.7	30.5	29.1	18.5
90°	15.5	15.5	15.5	15.5	15.5	20.6	27.4	30.9	26.5	17.8	11.3
92.5°	61.8	49.6	61.8	74.1	77.2	109.4	152.4	173.9	152.7	110.3	78.5
95°	215.6	178.5	215.6	252.9	262.2	344.3	453.8	508.5	429.4	271.3	152.8
97.5°	516.7	445.9	516.7	587.5	605.2	657.1	726.3	760.9	629.1	365.5	167.8
100°	744.4	660.0	744.4	828.7	849.8	846.1	841.1	838.5	692.3	399.8	180.4
102.5°	968.4	896.2	968.4	1040.7	1058.8	992.7	904.6	860.5	712.2	415.5	193.1
105°	1254.1	1215.2	1254.1	1292.9	1302.7	1154.5	956.8	858.0	714.5	427.2	211.8
107.5°	1441.2	1450.6	1441.2	1431.9	1429.5	1222.7	947.1	809.2	682.6	429.3	239.4
110°	1512.5	1553.0	1512.5	1472.1	1461.9	1230.8	922.7	768.6	654.4	426.1	254.9



TEST NUMBER: P934293

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1518.9	1581.1	1518.9	1456.8	1441.2	1204.7	889.3	731.6	629.9	426.2	273.5
115°	1478.6	1564.8	1478.6	1392.4	1370.9	1143.1	839.3	687.3	601.7	430.2	301.6
117.5°	1393.3	1488.9	1393.3	1297.7	1273.8	1068.1	793.9	656.8	583.9	438.2	328.8
120°	1324.4	1417.3	1324.4	1231.5	1208.3	1020.4	769.9	644.6	578.0	444.7	344.7
122.5°	1257.4	1349.0	1257.4	1165.8	1143.0	973.8	748.1	635.3	574.8	454.0	363.3
125°	1161.8	1246.2	1161.8	1077.5	1056.4	912.6	721.0	625.1	572.3	466.6	387.3
127.5°	1075.8	1147.0	1075.8	1004.6	986.9	863.4	698.9	616.5	570.8	479.2	410.5
130°	1025.1	1090.9	1025.1	959.4	942.9	833.1	686.6	613.3	571.7	488.4	426.0
132.5°	979.2	1038.1	979.2	920.2	905.5	807.2	676.1	610.5	572.3	495.9	438.6
135°	916.2	967.0	916.2	865.4	852.7	770.4	660.5	605.6	571.7	503.9	453.2
137.5°	865.7	907.2	865.7	824.1	813.7	744.1	651.3	604.8	575.2	516.2	471.9
140°	830.9	869.8	830.9	792.1	782.4	722.2	642.1	602.0	575.8	523.7	484.5
142.5°	802.2	835.6	802.2	768.9	760.5	707.7	637.2	602.0	577.9	529.9	493.8
145°	759.2	784.5	759.2	733.9	727.6	684.4	626.7	597.9	578.0	538.1	508.1
147.5°	726.1	747.1	726.1	705.1	699.9	665.8	620.6	597.9	581.9	549.9	525.9
150°	705.3	722.2	705.3	688.3	684.1	655.4	617.0	597.9	584.0	556.2	535.3
152.5°	687.5	700.4	687.5	674.7	671.5	646.9	614.3	597.9	585.4	560.2	541.4
155°	667.0	675.5	667.0	658.5	656.4	636.9	610.9	597.9	588.3	569.2	554.8
157.5°	650.9	656.8	650.9	644.8	643.4	628.2	608.0	597.9	591.3	578.1	568.2
160°	641.2	644.6	641.2	637.7	636.9	623.8	606.6	597.9	592.7	582.2	574.3
162.5°	634.9	638.1	634.9	631.6	630.8	619.9	605.2	597.9	594.2	586.6	580.9
165°	625.7	629.2	625.7	622.4	621.5	613.6	603.1	597.9	596.1	592.7	590.1
167.5°	619.2	620.7	619.2	617.8	617.4	612.3	605.4	602.0	600.5	597.6	595.4
170°	617.4	617.4	617.4	617.4	617.4	612.3	605.4	602.0	601.9	601.7	601.6
172.5°	612.6	611.3	612.6	613.9	614.2	610.1	604.7	602.0	602.0	602.0	602.0
175°	609.6	609.6	609.6	609.6	609.6	607.1	603.6	602.0	602.7	604.4	605.6
177.5°	607.1	605.6	607.1	608.5	608.9	606.8	604.1	602.7	603.3	604.6	605.6
180°	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6



TEST NUMBER: P934293

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1417.8	1409.8	1409.8	1396.6	1391.3	1387.3	1380.7	1360.9	1355.6	1350.3	1358.2
5°	1429.7	1415.1	1404.6	1380.7	1360.9	1353.0	1327.8	1280.2	1248.5	1224.6	1211.4
7.5°	1432.3	1413.8	1393.9	1356.9	1309.3	1288.1	1211.4	1124.1	1100.4	1079.2	1066.0
10°	1429.7	1408.5	1380.7	1325.2	1212.8	1175.7	1099.0	1042.1	1027.6	1023.7	1027.6
12.5°	1420.4	1400.5	1362.2	1269.7	1112.2	1087.2	1042.1	1009.1	1006.4	1013.0	1048.8
15°	1404.6	1386.0	1341.1	1195.5	1056.7	1038.2	1006.4	994.6	1009.1	1055.4	1162.5
17.5°	1388.7	1367.5	1312.0	1122.9	1014.4	1001.2	978.7	1002.5	1084.5	1146.6	1182.3
20°	1367.5	1342.3	1278.8	1069.9	983.9	972.1	961.4	1068.6	1130.7	1153.2	1173.0
22.5°	1342.3	1315.9	1233.9	1032.9	952.2	943.0	949.6	1105.6	1130.7	1146.6	1163.8
25°	1309.3	1286.8	1181.0	1003.8	927.1	916.5	941.6	1101.7	1116.3	1120.2	1154.6
27.5°	1278.8	1249.8	1125.5	977.3	896.7	892.7	948.2	1084.5	1095.1	1099.0	1136.1
30°	1241.9	1198.2	1063.3	949.6	864.9	863.6	949.6	1063.3	1060.6	1071.3	1108.3
32.5°	1203.5	1121.5	993.2	915.2	834.6	833.2	940.3	1031.6	1028.9	1043.5	1071.3
35°	1167.8	1062.0	898.0	875.5	796.2	797.5	917.9	994.6	995.9	1009.1	1026.3
37.5°	1130.7	1010.5	793.5	831.9	759.1	759.1	887.4	960.2	957.5	961.4	985.3
40°	1087.2	929.7	700.9	775.0	724.7	720.8	850.4	923.1	913.8	912.5	945.6
42.5°	1040.8	841.2	632.1	699.7	685.1	679.7	805.5	878.1	861.0	864.9	907.2
45°	990.5	817.3	579.3	591.2	644.1	640.1	756.5	826.6	814.6	825.3	868.9
47.5°	940.3	769.7	562.1	490.6	600.5	599.1	702.2	776.3	769.7	780.3	826.6
50°	871.5	716.8	560.7	420.5	551.5	556.8	637.4	727.4	727.4	736.6	785.5
52.5°	783.0	652.0	509.2	380.9	494.6	510.5	580.6	685.1	687.7	697.0	740.6
55°	702.2	584.6	472.1	350.4	427.1	461.5	525.0	641.4	646.7	656.0	695.6
57.5°	628.2	486.7	464.2	314.7	365.0	398.0	476.1	599.1	601.8	609.6	648.0
60°	548.8	351.8	425.9	276.4	310.8	335.9	431.2	548.8	558.1	563.4	596.4
62.5°	458.9	255.3	386.2	250.0	284.4	289.6	394.1	501.3	513.1	517.2	537.0
65°	326.7	214.3	327.9	227.5	256.6	257.9	354.5	452.3	462.9	469.5	484.0
67.5°	220.9	174.6	250.0	206.3	235.5	236.7	316.1	395.5	410.0	415.3	424.6
70°	153.4	116.3	185.2	183.8	211.6	214.3	275.1	343.8	357.1	361.1	366.3
72.5°	112.4	93.9	153.4	165.4	186.5	189.1	232.8	285.6	298.9	302.9	305.5
75°	86.0	99.2	124.3	144.2	158.7	160.0	190.4	232.8	242.1	244.6	246.0
77.5°	68.7	92.6	91.3	116.3	129.6	127.0	149.5	179.8	187.8	187.8	187.8
80°	51.6	72.8	68.7	83.3	95.2	92.6	107.1	128.3	130.9	133.6	132.2
82.5°	38.4	46.2	46.2	52.9	63.5	60.8	71.4	83.3	83.3	83.3	86.0
85°	23.8	26.4	21.2	27.8	35.7	34.4	39.6	45.0	46.2	46.2	43.7
87.5°	14.6	11.9	6.6	10.6	15.9	15.9	18.5	19.8	18.5	18.5	18.5
90°	10.6	7.3	4.0	7.3	10.6	11.3	17.8	26.5	30.9	27.4	20.6
92.5°	71.6	43.9	16.3	43.9	71.6	78.5	110.3	152.7	173.9	152.4	109.4
95°	140.2	89.6	39.0	89.6	140.2	152.8	271.3	429.4	508.5	453.8	344.3
97.5°	156.7	112.0	67.4	112.0	156.7	167.8	365.5	629.1	760.9	726.3	657.1
100°	170.3	129.9	89.4	129.9	170.3	180.4	399.8	692.3	838.5	841.1	846.1
102.5°	183.6	145.9	108.2	145.9	183.6	193.1	415.5	712.2	860.5	904.6	992.7
105°	203.8	171.8	139.8	171.8	203.8	211.8	427.2	714.5	858.0	956.8	1154.5
107.5°	231.9	202.1	172.4	202.1	231.9	239.4	429.3	682.6	809.2	947.1	1222.7
110°	248.2	221.2	194.2	221.2	248.2	254.9	426.1	654.4	768.6	922.7	1230.8



TEST NUMBER: P934293

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	267.1	241.5	215.8	241.5	267.1	273.5	426.2	629.9	731.6	889.3	1204.7
115°	295.7	272.0	248.4	272.0	295.7	301.6	430.2	601.7	687.3	839.3	1143.1
117.5°	323.4	301.9	280.4	301.9	323.4	328.8	438.2	583.9	656.8	793.9	1068.1
120°	339.7	319.4	299.2	319.4	339.7	344.7	444.7	578.0	644.6	769.9	1020.4
122.5°	358.2	337.8	317.4	337.8	358.2	363.3	454.0	574.8	635.3	748.1	973.8
125°	382.7	364.0	345.5	364.0	382.7	387.3	466.6	572.3	625.1	721.0	912.6
127.5°	405.7	387.0	368.3	387.0	405.7	410.5	479.2	570.8	616.5	698.9	863.4
130°	420.9	400.6	380.4	400.6	420.9	426.0	488.4	571.7	613.3	686.6	833.1
132.5°	433.5	413.2	393.0	413.2	433.5	438.6	495.9	572.3	610.5	676.1	807.2
135°	448.5	430.2	411.8	430.2	448.5	453.2	503.9	571.7	605.6	660.5	770.4
137.5°	467.4	449.1	430.9	449.1	467.4	471.9	516.2	575.2	604.8	651.3	744.1
140°	480.3	463.5	446.7	463.5	480.3	484.5	523.7	575.8	602.0	642.1	722.2
142.5°	489.9	474.4	458.9	474.4	489.9	493.8	529.9	577.9	602.0	637.2	707.7
145°	504.7	491.1	477.6	491.1	504.7	508.1	538.1	578.0	597.9	626.7	684.4
147.5°	522.7	509.5	496.3	509.5	522.7	525.9	549.9	581.9	597.9	620.6	665.8
150°	532.3	520.4	508.5	520.4	532.3	535.3	556.2	584.0	597.9	617.0	655.4
152.5°	539.1	530.2	521.1	530.2	539.1	541.4	560.2	585.4	597.9	614.3	646.9
155°	553.1	546.4	539.7	546.4	553.1	554.8	569.2	588.3	597.9	610.9	636.9
157.5°	566.6	560.0	553.5	560.0	566.6	568.2	578.1	591.3	597.9	608.0	628.2
160°	573.1	568.0	562.9	568.0	573.1	574.3	582.2	592.7	597.9	606.6	623.8
162.5°	579.9	576.1	572.3	576.1	579.9	580.9	586.6	594.2	597.9	605.2	619.9
165°	589.2	585.9	582.4	585.9	589.2	590.1	592.7	596.1	597.9	603.1	613.6
167.5°	595.1	593.4	591.8	593.4	595.1	595.4	597.6	600.5	602.0	605.4	612.3
170°	601.2	599.5	597.9	599.5	601.2	601.6	601.7	601.9	602.0	605.4	612.3
172.5°	601.9	601.6	601.2	601.6	601.9	602.0	602.0	602.0	602.0	604.7	610.1
175°	605.6	605.6	605.6	605.6	605.6	605.6	604.4	602.7	602.0	603.6	607.1
177.5°	605.6	605.6	605.6	605.6	605.6	605.6	604.6	603.3	602.7	604.1	606.8
180°	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6



TEST NUMBER: P934293

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1348.9	1345.0	1350.3	1335.7	1350.3	1345.0	1348.9	1358.2	1350.3	1355.6	1360.9
5°	1183.7	1177.1	1155.9	1138.7	1155.9	1177.1	1183.7	1211.4	1224.6	1248.5	1280.2
7.5°	1058.0	1052.8	1047.4	1036.9	1047.4	1052.8	1058.0	1066.0	1079.2	1100.4	1124.1
10°	1030.3	1031.6	1039.5	1038.2	1039.5	1031.6	1030.3	1027.6	1023.7	1027.6	1042.1
12.5°	1101.7	1113.6	1157.2	1154.6	1157.2	1113.6	1101.7	1048.8	1013.0	1006.4	1009.1
15°	1183.7	1187.6	1196.9	1198.2	1196.9	1187.6	1183.7	1162.5	1055.4	1009.1	994.6
17.5°	1191.6	1193.0	1199.6	1199.6	1199.6	1193.0	1191.6	1182.3	1146.6	1084.5	1002.5
20°	1185.0	1187.6	1200.8	1203.5	1200.8	1187.6	1185.0	1173.0	1153.2	1130.7	1068.6
22.5°	1182.3	1187.6	1198.2	1196.9	1198.2	1187.6	1182.3	1163.8	1146.6	1130.7	1105.6
25°	1169.1	1169.1	1170.5	1171.8	1170.5	1169.1	1169.1	1154.6	1120.2	1116.3	1101.7
27.5°	1141.3	1144.0	1151.9	1150.6	1151.9	1144.0	1141.3	1136.1	1099.0	1095.1	1084.5
30°	1116.3	1113.6	1107.0	1101.7	1107.0	1113.6	1116.3	1108.3	1071.3	1060.6	1063.3
32.5°	1073.9	1067.2	1060.6	1056.7	1060.6	1067.2	1073.9	1071.3	1043.5	1028.9	1031.6
35°	1023.7	1024.9	1023.7	1019.6	1023.7	1024.9	1023.7	1026.3	1009.1	995.9	994.6
37.5°	988.0	990.5	989.3	983.9	989.3	990.5	988.0	985.3	961.4	957.5	960.2
40°	950.9	952.2	950.9	947.0	950.9	952.2	950.9	945.6	912.5	913.8	923.1
42.5°	915.2	913.8	909.9	907.2	909.9	913.8	915.2	907.2	864.9	861.0	878.1
45°	874.2	875.5	867.6	863.6	867.6	875.5	874.2	868.9	825.3	814.6	826.6
47.5°	833.2	833.2	826.6	822.6	826.6	833.2	833.2	826.6	780.3	769.7	776.3
50°	789.6	788.2	778.9	777.7	778.9	788.2	789.6	785.5	736.6	727.4	727.4
52.5°	739.3	739.3	740.6	743.2	740.6	739.3	739.3	740.6	697.0	687.7	685.1
55°	695.6	697.0	706.3	708.8	706.3	697.0	695.6	695.6	656.0	646.7	641.4
57.5°	650.7	650.7	657.3	657.3	657.3	650.7	650.7	648.0	609.6	601.8	599.1
60°	599.1	601.8	607.1	605.7	607.1	601.8	599.1	596.4	563.4	558.1	548.8
62.5°	544.9	547.5	548.8	546.2	548.8	547.5	544.9	537.0	517.2	513.1	501.3
65°	488.0	490.6	492.0	489.4	492.0	490.6	488.0	484.0	469.5	462.9	452.3
67.5°	429.8	428.5	427.1	432.5	427.1	428.5	429.8	424.6	415.3	410.0	395.5
70°	370.3	370.3	369.0	371.6	369.0	370.3	370.3	366.3	361.1	357.1	343.8
72.5°	306.8	305.5	310.8	306.8	310.8	305.5	306.8	305.5	302.9	298.9	285.6
75°	244.6	247.3	244.6	248.7	244.6	247.3	244.6	246.0	244.6	242.1	232.8
77.5°	186.5	189.1	186.5	186.5	186.5	189.1	186.5	187.8	187.8	187.8	179.8
80°	132.2	130.9	130.9	129.6	130.9	130.9	132.2	132.2	133.6	130.9	128.3
82.5°	84.6	83.3	83.3	86.0	83.3	83.3	84.6	86.0	83.3	83.3	83.3
85°	46.2	47.6	45.0	45.0	45.0	47.6	46.2	43.7	46.2	46.2	45.0
87.5°	17.2	15.9	15.9	15.9	15.9	15.9	17.2	18.5	18.5	18.5	19.8
90°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	20.6	27.4	30.9	26.5
92.5°	77.2	74.1	61.8	49.6	61.8	74.1	77.2	109.4	152.4	173.9	152.7
95°	262.2	252.9	215.6	178.5	215.6	252.9	262.2	344.3	453.8	508.5	429.4
97.5°	605.2	587.5	516.7	445.9	516.7	587.5	605.2	657.1	726.3	760.9	629.1
100°	849.8	828.7	744.4	660.0	744.4	828.7	849.8	846.1	841.1	838.5	692.3
102.5°	1058.8	1040.7	968.4	896.2	968.4	1040.7	1058.8	992.7	904.6	860.5	712.2
105°	1302.7	1292.9	1254.1	1215.2	1254.1	1292.9	1302.7	1154.5	956.8	858.0	714.5
107.5°	1429.5	1431.9	1441.2	1450.6	1441.2	1431.9	1429.5	1222.7	947.1	809.2	682.6
110°	1461.9	1472.1	1512.5	1553.0	1512.5	1472.1	1461.9	1230.8	922.7	768.6	654.4



TEST NUMBER: P934293

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1441.2	1456.8	1518.9	1581.1	1518.9	1456.8	1441.2	1204.7	889.3	731.6	629.9
115°	1370.9	1392.4	1478.6	1564.8	1478.6	1392.4	1370.9	1143.1	839.3	687.3	601.7
117.5°	1273.8	1297.7	1393.3	1488.9	1393.3	1297.7	1273.8	1068.1	793.9	656.8	583.9
120°	1208.3	1231.5	1324.4	1417.3	1324.4	1231.5	1208.3	1020.4	769.9	644.6	578.0
122.5°	1143.0	1165.8	1257.4	1349.0	1257.4	1165.8	1143.0	973.8	748.1	635.3	574.8
125°	1056.4	1077.5	1161.8	1246.2	1161.8	1077.5	1056.4	912.6	721.0	625.1	572.3
127.5°	986.9	1004.6	1075.8	1147.0	1075.8	1004.6	986.9	863.4	698.9	616.5	570.8
130°	942.9	959.4	1025.1	1090.9	1025.1	959.4	942.9	833.1	686.6	613.3	571.7
132.5°	905.5	920.2	979.2	1038.1	979.2	920.2	905.5	807.2	676.1	610.5	572.3
135°	852.7	865.4	916.2	967.0	916.2	865.4	852.7	770.4	660.5	605.6	571.7
137.5°	813.7	824.1	865.7	907.2	865.7	824.1	813.7	744.1	651.3	604.8	575.2
140°	782.4	792.1	830.9	869.8	830.9	792.1	782.4	722.2	642.1	602.0	575.8
142.5°	760.5	768.9	802.2	835.6	802.2	768.9	760.5	707.7	637.2	602.0	577.9
145°	727.6	733.9	759.2	784.5	759.2	733.9	727.6	684.4	626.7	597.9	578.0
147.5°	699.9	705.1	726.1	747.1	726.1	705.1	699.9	665.8	620.6	597.9	581.9
150°	684.1	688.3	705.3	722.2	705.3	688.3	684.1	655.4	617.0	597.9	584.0
152.5°	671.5	674.7	687.5	700.4	687.5	674.7	671.5	646.9	614.3	597.9	585.4
155°	656.4	658.5	667.0	675.5	667.0	658.5	656.4	636.9	610.9	597.9	588.3
157.5°	643.4	644.8	650.9	656.8	650.9	644.8	643.4	628.2	608.0	597.9	591.3
160°	636.9	637.7	641.2	644.6	641.2	637.7	636.9	623.8	606.6	597.9	592.7
162.5°	630.8	631.6	634.9	638.1	634.9	631.6	630.8	619.9	605.2	597.9	594.2
165°	621.5	622.4	625.7	629.2	625.7	622.4	621.5	613.6	603.1	597.9	596.1
167.5°	617.4	617.8	619.2	620.7	619.2	617.8	617.4	612.3	605.4	602.0	600.5
170°	617.4	617.4	617.4	617.4	617.4	617.4	617.4	612.3	605.4	602.0	601.9
172.5°	614.2	613.9	612.6	611.3	612.6	613.9	614.2	610.1	604.7	602.0	602.0
175°	609.6	609.6	609.6	609.6	609.6	609.6	609.6	607.1	603.6	602.0	602.7
177.5°	608.9	608.5	607.1	605.6	607.1	608.5	608.9	606.8	604.1	602.7	603.3
180°	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6



TEST NUMBER: P934293

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1380.7	1387.3	1391.3	1396.6	1409.8
5°	1327.8	1353.0	1360.9	1380.7	1404.6
7.5°	1211.4	1288.1	1309.3	1356.9	1393.9
10°	1099.0	1175.7	1212.8	1325.2	1380.7
12.5°	1042.1	1087.2	1112.2	1269.7	1362.2
15°	1006.4	1038.2	1056.7	1195.5	1341.1
17.5°	978.7	1001.2	1014.4	1122.9	1312.0
20°	961.4	972.1	983.9	1069.9	1278.8
22.5°	949.6	943.0	952.2	1032.9	1233.9
25°	941.6	916.5	927.1	1003.8	1181.0
27.5°	948.2	892.7	896.7	977.3	1125.5
30°	949.6	863.6	864.9	949.6	1063.3
32.5°	940.3	833.2	834.6	915.2	993.2
35°	917.9	797.5	796.2	875.5	898.0
37.5°	887.4	759.1	759.1	831.9	793.5
40°	850.4	720.8	724.7	775.0	700.9
42.5°	805.5	679.7	685.1	699.7	632.1
45°	756.5	640.1	644.1	591.2	579.3
47.5°	702.2	599.1	600.5	490.6	562.1
50°	637.4	556.8	551.5	420.5	560.7
52.5°	580.6	510.5	494.6	380.9	509.2
55°	525.0	461.5	427.1	350.4	472.1
57.5°	476.1	398.0	365.0	314.7	464.2
60°	431.2	335.9	310.8	276.4	425.9
62.5°	394.1	289.6	284.4	250.0	386.2
65°	354.5	257.9	256.6	227.5	327.9
67.5°	316.1	236.7	235.5	206.3	250.0
70°	275.1	214.3	211.6	183.8	185.2
72.5°	232.8	189.1	186.5	165.4	153.4
75°	190.4	160.0	158.7	144.2	124.3
77.5°	149.5	127.0	129.6	116.3	91.3
80°	107.1	92.6	95.2	83.3	68.7
82.5°	71.4	60.8	63.5	52.9	46.2
85°	39.6	34.4	35.7	27.8	21.2
87.5°	18.5	15.9	15.9	10.6	6.6
90°	17.8	11.3	10.6	7.3	4.0
92.5°	110.3	78.5	71.6	43.9	16.3
95°	271.3	152.8	140.2	89.6	39.0
97.5°	365.5	167.8	156.7	112.0	67.4
100°	399.8	180.4	170.3	129.9	89.4
102.5°	415.5	193.1	183.6	145.9	108.2
105°	427.2	211.8	203.8	171.8	139.8
107.5°	429.3	239.4	231.9	202.1	172.4
110°	426.1	254.9	248.2	221.2	194.2



TEST NUMBER: P934293

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	426.2	273.5	267.1	241.5	215.8
115°	430.2	301.6	295.7	272.0	248.4
117.5°	438.2	328.8	323.4	301.9	280.4
120°	444.7	344.7	339.7	319.4	299.2
122.5°	454.0	363.3	358.2	337.8	317.4
125°	466.6	387.3	382.7	364.0	345.5
127.5°	479.2	410.5	405.7	387.0	368.3
130°	488.4	426.0	420.9	400.6	380.4
132.5°	495.9	438.6	433.5	413.2	393.0
135°	503.9	453.2	448.5	430.2	411.8
137.5°	516.2	471.9	467.4	449.1	430.9
140°	523.7	484.5	480.3	463.5	446.7
142.5°	529.9	493.8	489.9	474.4	458.9
145°	538.1	508.1	504.7	491.1	477.6
147.5°	549.9	525.9	522.7	509.5	496.3
150°	556.2	535.3	532.3	520.4	508.5
152.5°	560.2	541.4	539.1	530.2	521.1
155°	569.2	554.8	553.1	546.4	539.7
157.5°	578.1	568.2	566.6	560.0	553.5
160°	582.2	574.3	573.1	568.0	562.9
162.5°	586.6	580.9	579.9	576.1	572.3
165°	592.7	590.1	589.2	585.9	582.4
167.5°	597.6	595.4	595.1	593.4	591.8
170°	601.7	601.6	601.2	599.5	597.9
172.5°	602.0	602.0	601.9	601.6	601.2
175°	604.4	605.6	605.6	605.6	605.6
177.5°	604.6	605.6	605.6	605.6	605.6
180°	605.6	605.6	605.6	605.6	605.6



TEST NUMBER: P934293
 CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-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	11.12	11.96	12.09	12.95	14.25	13.95	14.80	14.93	15.79	17.08
	3H	11.59	12.35	12.58	13.35	14.67	15.30	16.06	16.29	17.05	18.37
	4H	11.78	12.50	12.78	13.50	14.83	15.75	16.46	16.74	17.46	18.79
	6H	11.90	12.56	12.91	13.56	14.91	16.03	16.69	17.04	17.70	19.04
	8H	11.90	12.53	12.92	13.55	14.89	16.11	16.73	17.12	17.76	19.09
	12H	11.87	12.47	12.89	13.48	14.85	16.15	16.74	17.17	17.76	19.12
4H	2H	12.15	12.86	13.15	13.86	15.19	14.36	15.08	15.37	16.08	17.41
	3H	13.17	13.77	14.19	14.80	16.14	15.87	16.46	16.88	17.49	18.84
	4H	13.45	14.00	14.47	15.02	16.38	16.40	16.94	17.42	17.96	19.33
	6H	13.57	14.04	14.61	15.09	16.45	16.76	17.23	17.80	18.28	19.64
	8H	13.58	14.02	14.61	15.06	16.43	16.87	17.31	17.90	18.35	19.72
	12H	13.55	13.94	14.60	14.99	16.38	16.93	17.32	17.98	18.38	19.76
8H	4H	13.90	14.34	14.94	15.38	16.76	16.52	16.96	17.55	18.00	19.37
	6H	14.16	14.53	15.22	15.61	16.98	16.96	17.32	18.01	18.40	19.77
	8H	14.21	14.53	15.27	15.59	16.98	17.11	17.43	18.18	18.49	19.89
	12H	14.19	14.47	15.26	15.53	16.97	17.21	17.49	18.28	18.55	19.98
12H	4H	13.91	14.30	14.96	15.36	16.74	16.48	16.88	17.53	17.93	19.31
	6H	14.23	14.54	15.29	15.61	17.00	16.95	17.27	18.02	18.34	19.73
	8H	14.29	14.57	15.36	15.63	17.07	17.12	17.40	18.18	18.46	19.89