

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: P934737

Luminaire Tested: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

**Test Information**

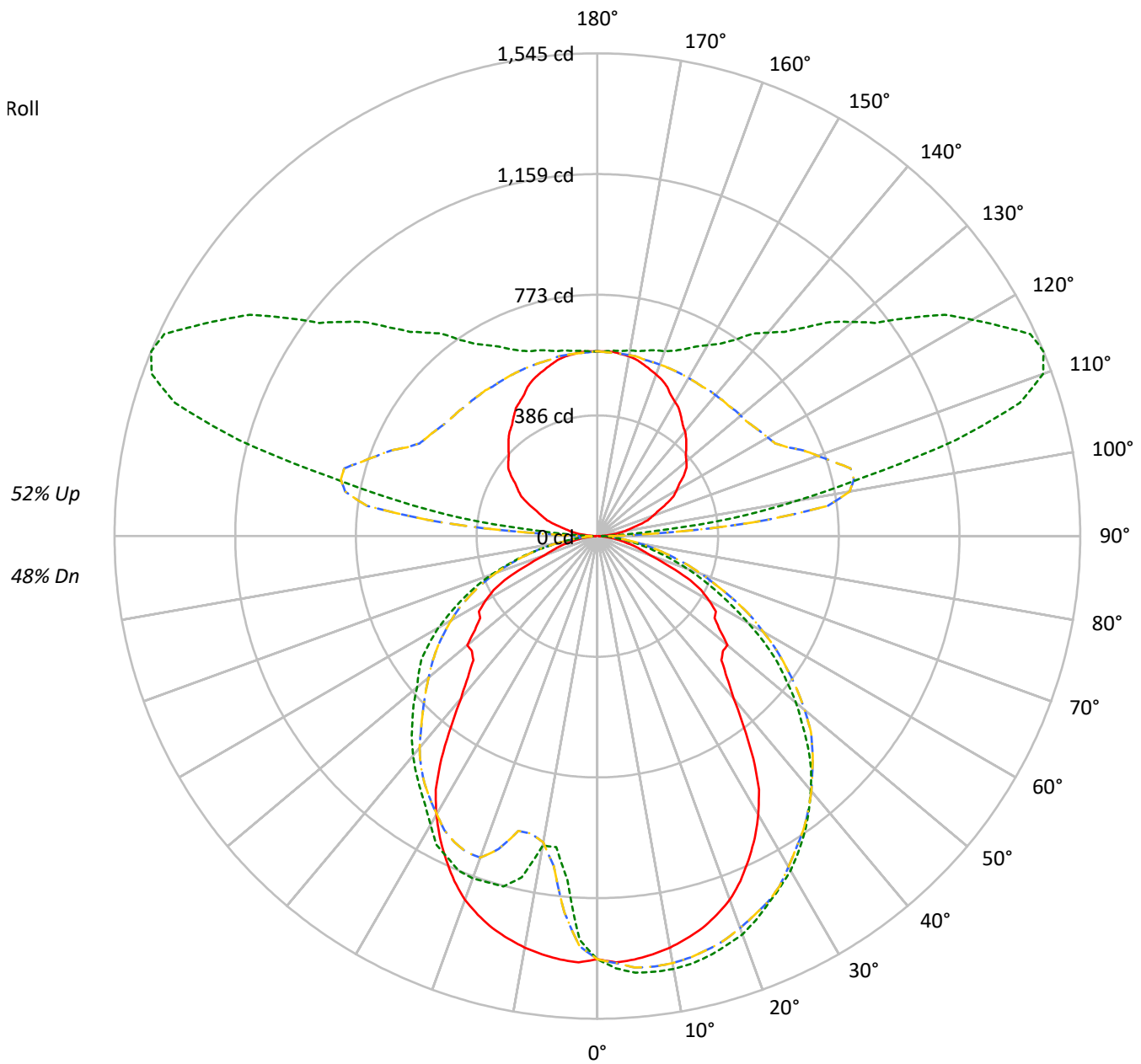
Test Method: LM-79-2019  
Report Number: P934737  
REPORT IS A COMBINATION OF REPORTS P933711 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7349.7 lumens  
Efficiency: N/A  
Efficacy: 115.6 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: General Diffuse  
  
Input Watts (W): 63.6  
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	82	79	72	70	68	60	58	56	48	47	46	40
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	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	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	33	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	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

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

	0°	90°	180°	270°
0°	8377	8377	8377	8377
5°	8437	8457	8437	6649
10°	8378	8330	8378	5955
15°	8283	8150	8283	6805
20°	8107	7936	8107	6819
25°	7749	7624	7749	6675
30°	7288	7365	7288	6357
35°	6494	7038	6494	6009
40°	5408	6652	5408	5745
45°	4829	6201	4829	5442
50°	5126	5663	5126	5138
55°	4818	5083	4818	4962
60°	4960	4317	4960	4545
65°	4490	3569	4490	3989
70°	3103	2844	3103	3344
75°	2709	2102	2709	2518
80°	2168	1390	2168	1514
85°	1222	735	1222	626

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7406 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.2	1.7
10°-20°	347.1	4.7
20°-30°	536.5	7.3
30°-40°	640.5	8.7
40°-50°	644.2	8.8
50°-60°	560.6	7.6
60°-70°	397.5	5.4
70°-80°	210.3	2.9
80°-90°	54.6	0.7
90°-100°	288.4	3.9
100°-110°	758.4	10.3
110°-120°	786.3	10.7
120°-130°	630.7	8.6
130°-140°	494.9	6.7
140°-150°	379.9	5.2
150°-160°	273.6	3.7
160°-170°	167.4	2.3
170°-180°	56.5	0.8
0°-30°	1005.8	13.7
0°-40°	1646.3	22.4
0°-60°	2851.2	38.8
0°-90°	3513.5	47.8
90°-120°	1833.2	24.9
90°-150°	3338.7	45.4
90°-180°	3836.0	52.2
0°-180°	7349.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1354	1354	1354	1354	1354	
5°	1361	1403	1361	1103	1361	129
15°	1299	1390	1299	1161	1299	366
25°	1144	1297	1144	1135	1144	525
35°	870	1157	870	988	870	538
45°	561	953	561	837	561	450
55°	457	703	457	687	457	420
65°	318	424	318	474	318	304
75°	120	201	120	241	120	127
85°	20	51	20	44	20	28
90°	4	15	4	15	4	4
95°	38	174	38	174	38	42
105°	137	1188	137	1188	137	145
115°	243	1529	243	1529	243	240
125°	338	1218	338	1218	338	300
135°	402	945	402	945	402	311
145°	467	766	467	766	467	292
155°	527	660	527	660	527	242
165°	569	615	569	615	569	161
175°	592	596	592	596	592	56
180°	592	592	592	592	592	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1365.8	1365.8	1373.4	1376.0	1376.0	1372.2	1368.3	1372.2	1383.7	1387.5	1386.2
5°	1360.6	1370.9	1385.0	1387.5	1390.1	1388.8	1386.2	1388.8	1401.6	1404.2	1405.5
7.5°	1350.4	1369.6	1387.5	1391.4	1395.2	1391.4	1390.1	1392.7	1405.5	1408.0	1408.0
10°	1337.6	1364.5	1385.0	1387.5	1391.4	1387.5	1387.5	1392.7	1405.5	1408.0	1409.3
12.5°	1319.6	1356.8	1376.0	1378.6	1383.7	1382.4	1381.1	1386.2	1399.1	1401.6	1401.6
15°	1299.1	1342.7	1360.6	1363.2	1372.2	1369.6	1369.6	1374.7	1388.8	1392.7	1391.4
17.5°	1270.9	1324.8	1345.3	1349.1	1355.5	1354.2	1355.5	1360.6	1373.4	1376.0	1377.3
20°	1238.9	1300.4	1324.8	1328.6	1335.0	1335.0	1335.0	1341.4	1354.2	1359.3	1359.3
22.5°	1195.4	1274.8	1300.4	1303.0	1310.7	1310.7	1313.2	1322.2	1333.7	1335.0	1335.0
25°	1144.1	1246.6	1268.4	1276.1	1283.8	1287.6	1291.4	1296.6	1300.4	1299.1	1300.4
27.5°	1090.3	1210.7	1238.9	1244.0	1254.3	1258.1	1263.3	1264.5	1265.8	1269.7	1267.1
30°	1030.1	1160.8	1203.0	1208.2	1224.8	1227.4	1222.3	1224.8	1231.2	1233.8	1236.4
32.5°	962.2	1086.5	1165.9	1177.4	1192.8	1185.1	1183.8	1187.7	1197.9	1197.9	1200.5
35°	869.9	1028.8	1131.3	1141.5	1153.1	1144.1	1149.2	1150.5	1156.9	1160.8	1159.5
37.5°	768.7	978.8	1095.4	1103.1	1112.1	1100.5	1108.2	1112.1	1117.2	1114.6	1114.6
40°	679.0	900.7	1053.1	1058.3	1066.0	1057.0	1064.7	1067.2	1069.8	1067.2	1066.0
42.5°	612.4	814.8	1008.3	1014.7	1009.6	1016.0	1018.5	1023.7	1019.8	1014.7	1014.7
45°	561.2	791.8	959.6	967.3	959.6	969.9	973.7	973.7	962.2	959.6	958.3
47.5°	544.5	745.7	910.9	910.9	907.1	919.9	926.3	917.3	905.8	902.0	902.0
50°	543.2	694.4	844.3	839.2	857.1	872.5	866.1	857.1	848.1	834.1	834.1
52.5°	493.3	631.6	758.5	777.7	805.9	814.8	804.6	795.6	780.2	773.8	768.7
55°	457.4	566.3	680.3	718.7	748.2	759.7	740.5	731.6	708.5	704.7	702.1
57.5°	449.7	471.5	608.6	657.3	693.1	691.8	680.3	663.7	644.4	640.6	639.3
60°	412.5	340.8	531.7	589.3	626.5	622.7	612.4	597.0	579.1	576.5	574.0
62.5°	374.1	247.3	444.6	509.9	562.4	561.2	552.2	529.1	516.3	509.9	504.8
65°	317.7	207.6	316.5	424.1	499.7	502.2	483.0	466.4	452.3	444.6	443.3
67.5°	242.1	169.1	214.0	353.6	439.4	436.9	412.5	404.9	386.9	383.1	375.4
70°	179.4	112.7	148.6	287.0	380.5	374.1	354.9	345.9	329.3	320.3	315.2
72.5°	148.6	91.0	108.9	222.9	320.3	312.6	296.0	285.7	271.6	263.9	258.8
75°	120.4	96.1	83.3	165.3	260.1	255.0	239.6	229.3	217.8	207.6	208.8
77.5°	88.4	89.7	66.6	121.7	206.3	198.6	189.6	176.8	171.7	161.4	161.4
80°	66.6	70.5	50.0	83.3	148.6	148.6	140.9	132.0	123.0	117.9	117.9
82.5°	44.8	44.8	37.2	52.5	101.2	97.4	92.2	89.7	84.6	82.0	82.0
85°	20.5	25.6	23.1	32.0	55.1	57.7	57.7	55.1	53.8	51.2	52.5
87.5°	6.4	11.5	14.1	17.9	28.2	29.5	30.7	30.7	30.7	32.0	32.0
90°	3.9	7.1	10.3	11.1	17.4	25.9	30.2	26.8	20.2	15.1	15.1
92.5°	15.9	42.9	69.9	76.6	107.7	149.2	170.0	149.0	106.9	75.4	72.4
95°	38.1	87.5	136.9	149.3	265.1	419.6	496.8	443.4	336.4	256.2	247.1
97.5°	65.9	109.5	153.1	164.0	357.2	614.7	743.5	709.7	642.1	591.4	574.1
100°	87.4	126.9	166.5	176.4	390.7	676.5	819.4	821.8	826.8	830.5	809.9
102.5°	105.7	142.6	179.5	188.7	406.1	695.9	840.8	883.9	970.0	1034.6	1016.9
105°	136.7	167.9	199.2	207.0	417.4	698.1	838.4	934.9	1128.0	1272.9	1263.4
107.5°	168.4	197.6	226.7	233.9	419.5	667.0	790.8	925.4	1194.8	1396.8	1399.1
110°	189.9	216.2	242.4	249.0	416.3	639.5	751.0	901.6	1202.8	1428.6	1438.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	210.9	235.9	261.0	267.3	416.5	615.4	714.9	869.0	1177.2	1408.3	1423.5
115°	242.7	265.8	288.9	294.7	420.3	587.8	671.6	820.0	1116.9	1339.6	1360.6
117.5°	274.0	295.0	316.0	321.3	428.2	570.6	641.8	775.8	1043.7	1244.7	1268.0
120°	292.3	312.1	331.8	336.8	434.5	564.7	629.9	752.3	997.1	1180.7	1203.5
122.5°	310.2	330.1	350.1	355.1	443.6	561.8	620.8	731.0	951.4	1116.8	1139.2
125°	337.6	355.7	373.9	378.5	455.9	559.2	610.9	704.5	891.8	1032.2	1052.8
127.5°	359.8	378.2	396.5	401.1	468.2	557.7	602.5	682.9	843.7	964.3	981.7
130°	371.7	391.5	411.3	416.2	477.3	558.7	599.3	670.9	814.1	921.4	937.5
132.5°	384.0	403.8	423.6	428.5	484.5	559.2	596.5	660.6	788.8	884.9	899.2
135°	402.3	420.3	438.3	442.9	492.5	558.7	591.7	645.4	752.7	833.2	845.6
137.5°	421.0	438.8	456.6	461.1	504.4	562.1	591.0	636.3	727.0	795.1	805.3
140°	436.5	452.9	469.3	473.4	511.7	562.7	588.2	627.4	705.8	764.5	774.0
142.5°	448.4	463.6	478.8	482.6	517.8	564.7	588.2	622.6	691.4	743.1	751.3
145°	466.7	479.9	493.1	496.4	525.7	564.7	584.2	612.4	668.7	710.9	717.0
147.5°	484.9	497.8	510.7	513.9	537.3	568.6	584.2	606.3	650.7	683.9	689.0
150°	496.8	508.5	520.2	523.1	543.5	570.6	584.2	602.9	640.3	668.4	672.6
152.5°	509.1	518.0	526.8	529.0	547.4	571.9	584.2	600.2	632.1	656.1	659.3
155°	527.4	533.9	540.5	542.1	556.1	574.8	584.2	597.0	622.4	641.5	643.5
157.5°	540.9	547.3	553.6	555.3	564.9	577.8	584.2	594.1	613.9	628.7	630.2
160°	550.1	555.0	560.0	561.2	568.8	579.1	584.2	592.7	609.6	622.3	623.2
162.5°	559.2	563.0	566.6	567.6	573.1	580.6	584.2	591.4	605.7	616.4	617.2
165°	569.1	572.5	575.9	576.7	579.2	582.5	584.2	589.3	599.6	607.3	608.1
167.5°	578.2	579.9	581.4	581.8	584.0	586.8	588.2	591.5	598.2	603.3	603.6
170°	584.2	585.8	587.4	587.8	587.9	588.1	588.2	591.5	598.2	603.3	603.3
172.5°	587.4	587.7	588.1	588.2	588.2	588.2	588.2	590.8	596.1	600.1	599.8
175°	591.7	591.7	591.7	591.7	590.5	588.9	588.2	589.9	593.2	595.8	595.8
177.5°	591.7	591.7	591.7	591.7	590.8	589.6	589.0	590.4	593.0	595.0	594.6
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1388.8	1385.0	1388.8	1386.2	1387.5	1383.7	1372.2	1368.3	1372.2	1376.0	1376.0
5°	1405.5	1402.9	1405.5	1405.5	1404.2	1401.6	1388.8	1386.2	1388.8	1390.1	1387.5
7.5°	1410.6	1406.7	1410.6	1408.0	1408.0	1405.5	1392.7	1390.1	1391.4	1395.2	1391.4
10°	1410.6	1406.7	1410.6	1409.3	1408.0	1405.5	1392.7	1387.5	1387.5	1391.4	1387.5
12.5°	1404.2	1401.6	1404.2	1401.6	1401.6	1399.1	1386.2	1381.1	1382.4	1383.7	1378.6
15°	1393.9	1390.1	1393.9	1391.4	1392.7	1388.8	1374.7	1369.6	1369.6	1372.2	1363.2
17.5°	1378.6	1373.4	1378.6	1377.3	1376.0	1373.4	1360.6	1355.5	1354.2	1355.5	1349.1
20°	1360.6	1356.8	1360.6	1359.3	1359.3	1354.2	1341.4	1335.0	1335.0	1335.0	1328.6
22.5°	1332.4	1328.6	1332.4	1335.0	1335.0	1333.7	1322.2	1313.2	1310.7	1310.7	1303.0
25°	1300.4	1296.6	1300.4	1300.4	1299.1	1300.4	1296.6	1291.4	1287.6	1283.8	1276.1
27.5°	1269.7	1267.1	1269.7	1267.1	1269.7	1265.8	1264.5	1263.3	1258.1	1254.3	1244.0
30°	1238.9	1236.4	1238.9	1236.4	1233.8	1231.2	1224.8	1222.3	1227.4	1224.8	1208.2
32.5°	1200.5	1197.9	1200.5	1200.5	1197.9	1197.9	1187.7	1183.8	1185.1	1192.8	1177.4
35°	1160.8	1156.9	1160.8	1159.5	1160.8	1156.9	1150.5	1149.2	1144.1	1153.1	1141.5
37.5°	1114.6	1110.8	1114.6	1114.6	1114.6	1117.2	1112.1	1108.2	1100.5	1112.1	1103.1
40°	1067.2	1062.1	1067.2	1066.0	1067.2	1069.8	1067.2	1064.7	1057.0	1066.0	1058.3
42.5°	1013.4	1012.1	1013.4	1014.7	1014.7	1019.8	1023.7	1018.5	1016.0	1009.6	1014.7
45°	955.8	953.2	955.8	958.3	959.6	962.2	973.7	973.7	969.9	959.6	967.3
47.5°	894.3	887.9	894.3	902.0	902.0	905.8	917.3	926.3	919.9	907.1	910.9
50°	828.9	830.2	828.9	834.1	834.1	848.1	857.1	866.1	872.5	857.1	839.2
52.5°	764.9	763.6	764.9	768.7	773.8	780.2	795.6	804.6	814.8	805.9	777.7
55°	700.8	703.4	700.8	702.1	704.7	708.5	731.6	740.5	759.7	748.2	718.7
57.5°	636.8	632.9	636.8	639.3	640.6	644.4	663.7	680.3	691.8	693.1	657.3
60°	562.4	557.3	562.4	574.0	576.5	579.1	597.0	612.4	622.7	626.5	589.3
62.5°	497.1	488.1	497.1	504.8	509.9	516.3	529.1	552.2	561.2	562.4	509.9
65°	427.9	424.1	427.9	443.3	444.6	452.3	466.4	483.0	502.2	499.7	424.1
67.5°	365.1	365.1	365.1	375.4	383.1	386.9	404.9	412.5	436.9	439.4	353.6
70°	307.5	306.2	307.5	315.2	320.3	329.3	345.9	354.9	374.1	380.5	287.0
72.5°	252.4	251.1	252.4	258.8	263.9	271.6	285.7	296.0	312.6	320.3	222.9
75°	203.7	201.1	203.7	208.8	207.6	217.8	229.3	239.6	255.0	260.1	165.3
77.5°	156.3	156.3	156.3	161.4	161.4	171.7	176.8	189.6	198.6	206.3	121.7
80°	116.6	115.3	116.6	117.9	117.9	123.0	132.0	140.9	148.6	148.6	83.3
82.5°	82.0	79.4	82.0	82.0	82.0	84.6	89.7	92.2	97.4	101.2	52.5
85°	51.2	51.2	51.2	52.5	51.2	53.8	55.1	57.7	57.7	55.1	32.0
87.5°	33.3	32.0	33.3	32.0	32.0	30.7	30.7	30.7	29.5	28.2	17.9
90°	15.1	15.1	15.1	15.1	15.1	20.2	26.8	30.2	25.9	17.4	11.1
92.5°	60.4	48.4	60.4	72.4	75.4	106.9	149.0	170.0	149.2	107.7	76.6
95°	210.7	174.3	210.7	247.1	256.2	336.4	443.4	496.8	419.6	265.1	149.3
97.5°	504.9	435.7	504.9	574.1	591.4	642.1	709.7	743.5	614.7	357.2	164.0
100°	727.4	645.0	727.4	809.9	830.5	826.8	821.8	819.4	676.5	390.7	176.4
102.5°	946.4	875.7	946.4	1016.9	1034.6	970.0	883.9	840.8	695.9	406.1	188.7
105°	1225.4	1187.5	1225.4	1263.4	1272.9	1128.0	934.9	838.4	698.1	417.4	207.0
107.5°	1408.3	1417.4	1408.3	1399.1	1396.8	1194.8	925.4	790.8	667.0	419.5	233.9
110°	1478.0	1517.5	1478.0	1438.5	1428.6	1202.8	901.6	751.0	639.5	416.3	249.0





TEST NUMBER: P934737

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1484.2	1544.9	1484.2	1423.5	1408.3	1177.2	869.0	714.9	615.4	416.5	267.3
115°	1444.8	1529.1	1444.8	1360.6	1339.6	1116.9	820.0	671.6	587.8	420.3	294.7
117.5°	1361.4	1454.8	1361.4	1268.0	1244.7	1043.7	775.8	641.8	570.6	428.2	321.3
120°	1294.2	1384.9	1294.2	1203.5	1180.7	997.1	752.3	629.9	564.7	434.5	336.8
122.5°	1228.7	1318.2	1228.7	1139.2	1116.8	951.4	731.0	620.8	561.8	443.6	355.1
125°	1135.3	1217.7	1135.3	1052.8	1032.2	891.8	704.5	610.9	559.2	455.9	378.5
127.5°	1051.3	1120.8	1051.3	981.7	964.3	843.7	682.9	602.5	557.7	468.2	401.1
130°	1001.7	1066.0	1001.7	937.5	921.4	814.1	670.9	599.3	558.7	477.3	416.2
132.5°	956.8	1014.4	956.8	899.2	884.9	788.8	660.6	596.5	559.2	484.5	428.5
135°	895.2	944.8	895.2	845.6	833.2	752.7	645.4	591.7	558.7	492.5	442.9
137.5°	845.8	886.5	845.8	805.3	795.1	727.0	636.3	591.0	562.1	504.4	461.1
140°	812.0	849.9	812.0	774.0	764.5	705.8	627.4	588.2	562.7	511.7	473.4
142.5°	783.9	816.5	783.9	751.3	743.1	691.4	622.6	588.2	564.7	517.8	482.6
145°	741.8	766.5	741.8	717.0	710.9	668.7	612.4	584.2	564.7	525.7	496.4
147.5°	709.4	729.9	709.4	689.0	683.9	650.7	606.3	584.2	568.6	537.3	513.9
150°	689.2	705.8	689.2	672.6	668.4	640.3	602.9	584.2	570.6	543.5	523.1
152.5°	671.8	684.3	671.8	659.3	656.1	632.1	600.2	584.2	571.9	547.4	529.0
155°	651.8	660.1	651.8	643.5	641.5	622.4	597.0	584.2	574.8	556.1	542.1
157.5°	636.0	641.8	636.0	630.2	628.7	613.9	594.1	584.2	577.8	564.9	555.3
160°	626.5	629.9	626.5	623.2	622.3	609.6	592.7	584.2	579.1	568.8	561.2
162.5°	620.4	623.5	620.4	617.2	616.4	605.7	591.4	584.2	580.6	573.1	567.6
165°	611.5	614.8	611.5	608.1	607.3	599.6	589.3	584.2	582.5	579.2	576.7
167.5°	605.1	606.4	605.1	603.6	603.3	598.2	591.5	588.2	586.8	584.0	581.8
170°	603.3	603.3	603.3	603.3	603.3	598.2	591.5	588.2	588.1	587.9	587.8
172.5°	598.6	597.3	598.6	599.8	600.1	596.1	590.8	588.2	588.2	588.2	588.2
175°	595.8	595.8	595.8	595.8	595.8	593.2	589.9	588.2	588.9	590.5	591.7
177.5°	593.2	591.7	593.2	594.6	595.0	593.0	590.4	589.0	589.6	590.8	591.7
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



TEST NUMBER: P934737

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1373.4	1365.8	1365.8	1352.9	1347.8	1344.0	1337.6	1318.3	1313.2	1308.1	1315.8
5°	1385.0	1370.9	1360.6	1337.6	1318.3	1310.7	1286.3	1240.2	1209.4	1186.4	1173.6
7.5°	1387.5	1369.6	1350.4	1314.5	1268.4	1247.9	1173.6	1089.0	1066.0	1045.5	1032.6
10°	1385.0	1364.5	1337.6	1283.8	1174.9	1139.0	1064.7	1009.6	995.5	991.6	995.5
12.5°	1376.0	1356.8	1319.6	1229.9	1077.5	1053.1	1009.6	977.5	975.0	981.4	1016.0
15°	1360.6	1342.7	1299.1	1158.2	1023.7	1005.7	975.0	963.5	977.5	1022.4	1126.2
17.5°	1345.3	1324.8	1270.9	1087.7	982.7	969.9	948.1	971.1	1050.6	1110.8	1145.4
20°	1324.8	1300.4	1238.9	1036.5	953.2	941.7	931.4	1035.2	1095.4	1117.2	1136.4
22.5°	1300.4	1274.8	1195.4	1000.6	922.5	913.5	919.9	1071.1	1095.4	1110.8	1127.4
25°	1268.4	1246.6	1144.1	972.4	898.1	887.9	912.2	1067.2	1081.3	1085.2	1118.5
27.5°	1238.9	1210.7	1090.3	946.8	868.6	864.8	918.6	1050.6	1060.8	1064.7	1100.5
30°	1203.0	1160.8	1030.1	919.9	837.9	836.6	919.9	1030.1	1027.5	1037.8	1073.6
32.5°	1165.9	1086.5	962.2	886.6	808.4	807.2	910.9	999.3	996.8	1010.9	1037.8
35°	1131.3	1028.8	869.9	848.1	771.3	772.6	889.1	963.5	964.7	977.5	994.2
37.5°	1095.4	978.8	768.7	805.9	735.4	735.4	859.7	930.1	927.6	931.4	954.5
40°	1053.1	900.7	679.0	750.8	702.1	698.2	823.8	894.3	885.3	884.0	916.1
42.5°	1008.3	814.8	612.4	677.8	663.7	658.5	780.2	850.7	834.1	837.9	878.9
45°	959.6	791.8	561.2	572.7	623.9	620.1	732.8	800.7	789.2	799.5	841.7
47.5°	910.9	745.7	544.5	475.3	581.7	580.4	680.3	752.1	745.7	755.9	800.7
50°	844.3	694.4	543.2	407.4	534.3	539.4	617.5	704.7	704.7	713.6	761.0
52.5°	758.5	631.6	493.3	369.0	479.2	494.5	562.4	663.7	666.2	675.2	717.5
55°	680.3	566.3	457.4	339.5	413.8	447.1	508.6	621.4	626.5	635.5	673.9
57.5°	608.6	471.5	449.7	304.9	353.6	385.6	461.2	580.4	582.9	590.6	627.8
60°	531.7	340.8	412.5	267.8	301.1	325.4	417.7	531.7	540.7	545.8	577.8
62.5°	444.6	247.3	374.1	242.1	275.5	280.6	381.8	485.6	497.1	500.9	520.2
65°	316.5	207.6	317.7	220.4	248.6	249.8	343.4	438.2	448.4	454.8	468.9
67.5°	214.0	169.1	242.1	199.9	228.1	229.3	306.2	383.1	397.2	402.3	411.3
70°	148.6	112.7	179.4	178.1	205.0	207.6	266.5	333.1	345.9	349.8	354.9
72.5°	108.9	91.0	148.6	160.1	180.6	183.2	225.5	276.7	289.5	293.4	296.0
75°	83.3	96.1	120.4	139.6	153.7	155.0	184.5	225.5	234.5	237.0	238.3
77.5°	66.6	89.7	88.4	112.7	125.6	123.0	144.8	174.2	181.9	181.9	181.9
80°	50.0	70.5	66.6	80.7	92.2	89.7	103.8	124.3	126.8	129.4	128.1
82.5°	37.2	44.8	44.8	51.2	61.5	58.9	69.2	80.7	80.7	80.7	83.3
85°	23.1	25.6	20.5	26.9	34.6	33.3	38.4	43.6	44.8	44.8	42.3
87.5°	14.1	11.5	6.4	10.2	15.4	15.4	17.9	19.2	17.9	17.9	17.9
90°	10.3	7.1	3.9	7.1	10.3	11.1	17.4	25.9	30.2	26.8	20.2
92.5°	69.9	42.9	15.9	42.9	69.9	76.6	107.7	149.2	170.0	149.0	106.9
95°	136.9	87.5	38.1	87.5	136.9	149.3	265.1	419.6	496.8	443.4	336.4
97.5°	153.1	109.5	65.9	109.5	153.1	164.0	357.2	614.7	743.5	709.7	642.1
100°	166.5	126.9	87.4	126.9	166.5	176.4	390.7	676.5	819.4	821.8	826.8
102.5°	179.5	142.6	105.7	142.6	179.5	188.7	406.1	695.9	840.8	883.9	970.0
105°	199.2	167.9	136.7	167.9	199.2	207.0	417.4	698.1	838.4	934.9	1128.0
107.5°	226.7	197.6	168.4	197.6	226.7	233.9	419.5	667.0	790.8	925.4	1194.8
110°	242.4	216.2	189.9	216.2	242.4	249.0	416.3	639.5	751.0	901.6	1202.8



TEST NUMBER: P934737

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	261.0	235.9	210.9	235.9	261.0	267.3	416.5	615.4	714.9	869.0	1177.2
115°	288.9	265.8	242.7	265.8	288.9	294.7	420.3	587.8	671.6	820.0	1116.9
117.5°	316.0	295.0	274.0	295.0	316.0	321.3	428.2	570.6	641.8	775.8	1043.7
120°	331.8	312.1	292.3	312.1	331.8	336.8	434.5	564.7	629.9	752.3	997.1
122.5°	350.1	330.1	310.2	330.1	350.1	355.1	443.6	561.8	620.8	731.0	951.4
125°	373.9	355.7	337.6	355.7	373.9	378.5	455.9	559.2	610.9	704.5	891.8
127.5°	396.5	378.2	359.8	378.2	396.5	401.1	468.2	557.7	602.5	682.9	843.7
130°	411.3	391.5	371.7	391.5	411.3	416.2	477.3	558.7	599.3	670.9	814.1
132.5°	423.6	403.8	384.0	403.8	423.6	428.5	484.5	559.2	596.5	660.6	788.8
135°	438.3	420.3	402.3	420.3	438.3	442.9	492.5	558.7	591.7	645.4	752.7
137.5°	456.6	438.8	421.0	438.8	456.6	461.1	504.4	562.1	591.0	636.3	727.0
140°	469.3	452.9	436.5	452.9	469.3	473.4	511.7	562.7	588.2	627.4	705.8
142.5°	478.8	463.6	448.4	463.6	478.8	482.6	517.8	564.7	588.2	622.6	691.4
145°	493.1	479.9	466.7	479.9	493.1	496.4	525.7	564.7	584.2	612.4	668.7
147.5°	510.7	497.8	484.9	497.8	510.7	513.9	537.3	568.6	584.2	606.3	650.7
150°	520.2	508.5	496.8	508.5	520.2	523.1	543.5	570.6	584.2	602.9	640.3
152.5°	526.8	518.0	509.1	518.0	526.8	529.0	547.4	571.9	584.2	600.2	632.1
155°	540.5	533.9	527.4	533.9	540.5	542.1	556.1	574.8	584.2	597.0	622.4
157.5°	553.6	547.3	540.9	547.3	553.6	555.3	564.9	577.8	584.2	594.1	613.9
160°	560.0	555.0	550.1	555.0	560.0	561.2	568.8	579.1	584.2	592.7	609.6
162.5°	566.6	563.0	559.2	563.0	566.6	567.6	573.1	580.6	584.2	591.4	605.7
165°	575.9	572.5	569.1	572.5	575.9	576.7	579.2	582.5	584.2	589.3	599.6
167.5°	581.4	579.9	578.2	579.9	581.4	581.8	584.0	586.8	588.2	591.5	598.2
170°	587.4	585.8	584.2	585.8	587.4	587.8	587.9	588.1	588.2	591.5	598.2
172.5°	588.1	587.7	587.4	587.7	588.1	588.2	588.2	588.2	588.2	590.8	596.1
175°	591.7	591.7	591.7	591.7	591.7	591.7	590.5	588.9	588.2	589.9	593.2
177.5°	591.7	591.7	591.7	591.7	591.7	591.7	590.8	589.6	589.0	590.4	593.0
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



TEST NUMBER: P934737

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1306.8	1303.0	1308.1	1294.0	1308.1	1303.0	1306.8	1315.8	1308.1	1313.2	1318.3
5°	1146.7	1140.3	1119.8	1103.1	1119.8	1140.3	1146.7	1173.6	1186.4	1209.4	1240.2
7.5°	1025.0	1019.8	1014.7	1004.5	1014.7	1019.8	1025.0	1032.6	1045.5	1066.0	1089.0
10°	998.0	999.3	1007.0	1005.7	1007.0	999.3	998.0	995.5	991.6	995.5	1009.6
12.5°	1067.2	1078.8	1121.0	1118.5	1121.0	1078.8	1067.2	1016.0	981.4	975.0	977.5
15°	1146.7	1150.5	1159.5	1160.8	1159.5	1150.5	1146.7	1126.2	1022.4	977.5	963.5
17.5°	1154.4	1155.6	1162.0	1162.0	1162.0	1155.6	1154.4	1145.4	1110.8	1050.6	971.1
20°	1147.9	1150.5	1163.3	1165.9	1163.3	1150.5	1147.9	1136.4	1117.2	1095.4	1035.2
22.5°	1145.4	1150.5	1160.8	1159.5	1160.8	1150.5	1145.4	1127.4	1110.8	1095.4	1071.1
25°	1132.6	1132.6	1133.9	1135.1	1133.9	1132.6	1132.6	1118.5	1085.2	1081.3	1067.2
27.5°	1105.7	1108.2	1115.9	1114.6	1115.9	1108.2	1105.7	1100.5	1064.7	1060.8	1050.6
30°	1081.3	1078.8	1072.4	1067.2	1072.4	1078.8	1081.3	1073.6	1037.8	1027.5	1030.1
32.5°	1040.3	1033.9	1027.5	1023.7	1027.5	1033.9	1040.3	1037.8	1010.9	996.8	999.3
35°	991.6	992.9	991.6	987.8	991.6	992.9	991.6	994.2	977.5	964.7	963.5
37.5°	957.1	959.6	958.3	953.2	958.3	959.6	957.1	954.5	931.4	927.6	930.1
40°	921.2	922.5	921.2	917.3	921.2	922.5	921.2	916.1	884.0	885.3	894.3
42.5°	886.6	885.3	881.5	878.9	881.5	885.3	886.6	878.9	837.9	834.1	850.7
45°	846.9	848.1	840.5	836.6	840.5	848.1	846.9	841.7	799.5	789.2	800.7
47.5°	807.2	807.2	800.7	796.9	800.7	807.2	807.2	800.7	755.9	745.7	752.1
50°	764.9	763.6	754.6	753.3	754.6	763.6	764.9	761.0	713.6	704.7	704.7
52.5°	716.2	716.2	717.5	720.0	717.5	716.2	716.2	717.5	675.2	666.2	663.7
55°	673.9	675.2	684.2	686.7	684.2	675.2	673.9	673.9	635.5	626.5	621.4
57.5°	630.3	630.3	636.8	636.8	636.8	630.3	630.3	627.8	590.6	582.9	580.4
60°	580.4	582.9	588.1	586.8	588.1	582.9	580.4	577.8	545.8	540.7	531.7
62.5°	527.9	530.4	531.7	529.1	531.7	530.4	527.9	520.2	500.9	497.1	485.6
65°	472.8	475.3	476.6	474.0	476.6	475.3	472.8	468.9	454.8	448.4	438.2
67.5°	416.4	415.1	413.8	418.9	413.8	415.1	416.4	411.3	402.3	397.2	383.1
70°	358.7	358.7	357.5	360.0	357.5	358.7	358.7	354.9	349.8	345.9	333.1
72.5°	297.2	296.0	301.1	297.2	301.1	296.0	297.2	296.0	293.4	289.5	276.7
75°	237.0	239.6	237.0	240.9	237.0	239.6	237.0	238.3	237.0	234.5	225.5
77.5°	180.6	183.2	180.6	180.6	180.6	183.2	180.6	181.9	181.9	181.9	174.2
80°	128.1	126.8	126.8	125.6	126.8	126.8	128.1	128.1	129.4	126.8	124.3
82.5°	82.0	80.7	80.7	83.3	80.7	80.7	82.0	83.3	80.7	80.7	80.7
85°	44.8	46.1	43.6	43.6	43.6	46.1	44.8	42.3	44.8	44.8	43.6
87.5°	16.7	15.4	15.4	15.4	15.4	15.4	16.7	17.9	17.9	17.9	19.2
90°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	20.2	26.8	30.2	25.9
92.5°	75.4	72.4	60.4	48.4	60.4	72.4	75.4	106.9	149.0	170.0	149.2
95°	256.2	247.1	210.7	174.3	210.7	247.1	256.2	336.4	443.4	496.8	419.6
97.5°	591.4	574.1	504.9	435.7	504.9	574.1	591.4	642.1	709.7	743.5	614.7
100°	830.5	809.9	727.4	645.0	727.4	809.9	830.5	826.8	821.8	819.4	676.5
102.5°	1034.6	1016.9	946.4	875.7	946.4	1016.9	1034.6	970.0	883.9	840.8	695.9
105°	1272.9	1263.4	1225.4	1187.5	1225.4	1263.4	1272.9	1128.0	934.9	838.4	698.1
107.5°	1396.8	1399.1	1408.3	1417.4	1408.3	1399.1	1396.8	1194.8	925.4	790.8	667.0
110°	1428.6	1438.5	1478.0	1517.5	1478.0	1438.5	1428.6	1202.8	901.6	751.0	639.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1408.3	1423.5	1484.2	1544.9	1484.2	1423.5	1408.3	1177.2	869.0	714.9	615.4
115°	1339.6	1360.6	1444.8	1529.1	1444.8	1360.6	1339.6	1116.9	820.0	671.6	587.8
117.5°	1244.7	1268.0	1361.4	1454.8	1361.4	1268.0	1244.7	1043.7	775.8	641.8	570.6
120°	1180.7	1203.5	1294.2	1384.9	1294.2	1203.5	1180.7	997.1	752.3	629.9	564.7
122.5°	1116.8	1139.2	1228.7	1318.2	1228.7	1139.2	1116.8	951.4	731.0	620.8	561.8
125°	1032.2	1052.8	1135.3	1217.7	1135.3	1052.8	1032.2	891.8	704.5	610.9	559.2
127.5°	964.3	981.7	1051.3	1120.8	1051.3	981.7	964.3	843.7	682.9	602.5	557.7
130°	921.4	937.5	1001.7	1066.0	1001.7	937.5	921.4	814.1	670.9	599.3	558.7
132.5°	884.9	899.2	956.8	1014.4	956.8	899.2	884.9	788.8	660.6	596.5	559.2
135°	833.2	845.6	895.2	944.8	895.2	845.6	833.2	752.7	645.4	591.7	558.7
137.5°	795.1	805.3	845.8	886.5	845.8	805.3	795.1	727.0	636.3	591.0	562.1
140°	764.5	774.0	812.0	849.9	812.0	774.0	764.5	705.8	627.4	588.2	562.7
142.5°	743.1	751.3	783.9	816.5	783.9	751.3	743.1	691.4	622.6	588.2	564.7
145°	710.9	717.0	741.8	766.5	741.8	717.0	710.9	668.7	612.4	584.2	564.7
147.5°	683.9	689.0	709.4	729.9	709.4	689.0	683.9	650.7	606.3	584.2	568.6
150°	668.4	672.6	689.2	705.8	689.2	672.6	668.4	640.3	602.9	584.2	570.6
152.5°	656.1	659.3	671.8	684.3	671.8	659.3	656.1	632.1	600.2	584.2	571.9
155°	641.5	643.5	651.8	660.1	651.8	643.5	641.5	622.4	597.0	584.2	574.8
157.5°	628.7	630.2	636.0	641.8	636.0	630.2	628.7	613.9	594.1	584.2	577.8
160°	622.3	623.2	626.5	629.9	626.5	623.2	622.3	609.6	592.7	584.2	579.1
162.5°	616.4	617.2	620.4	623.5	620.4	617.2	616.4	605.7	591.4	584.2	580.6
165°	607.3	608.1	611.5	614.8	611.5	608.1	607.3	599.6	589.3	584.2	582.5
167.5°	603.3	603.6	605.1	606.4	605.1	603.6	603.3	598.2	591.5	588.2	586.8
170°	603.3	603.3	603.3	603.3	603.3	603.3	603.3	598.2	591.5	588.2	588.1
172.5°	600.1	599.8	598.6	597.3	598.6	599.8	600.1	596.1	590.8	588.2	588.2
175°	595.8	595.8	595.8	595.8	595.8	595.8	595.8	593.2	589.9	588.2	588.9
177.5°	595.0	594.6	593.2	591.7	593.2	594.6	595.0	593.0	590.4	589.0	589.6
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1337.6	1344.0	1347.8	1352.9	1365.8
5°	1286.3	1310.7	1318.3	1337.6	1360.6
7.5°	1173.6	1247.9	1268.4	1314.5	1350.4
10°	1064.7	1139.0	1174.9	1283.8	1337.6
12.5°	1009.6	1053.1	1077.5	1229.9	1319.6
15°	975.0	1005.7	1023.7	1158.2	1299.1
17.5°	948.1	969.9	982.7	1087.7	1270.9
20°	931.4	941.7	953.2	1036.5	1238.9
22.5°	919.9	913.5	922.5	1000.6	1195.4
25°	912.2	887.9	898.1	972.4	1144.1
27.5°	918.6	864.8	868.6	946.8	1090.3
30°	919.9	836.6	837.9	919.9	1030.1
32.5°	910.9	807.2	808.4	886.6	962.2
35°	889.1	772.6	771.3	848.1	869.9
37.5°	859.7	735.4	735.4	805.9	768.7
40°	823.8	698.2	702.1	750.8	679.0
42.5°	780.2	658.5	663.7	677.8	612.4
45°	732.8	620.1	623.9	572.7	561.2
47.5°	680.3	580.4	581.7	475.3	544.5
50°	617.5	539.4	534.3	407.4	543.2
52.5°	562.4	494.5	479.2	369.0	493.3
55°	508.6	447.1	413.8	339.5	457.4
57.5°	461.2	385.6	353.6	304.9	449.7
60°	417.7	325.4	301.1	267.8	412.5
62.5°	381.8	280.6	275.5	242.1	374.1
65°	343.4	249.8	248.6	220.4	317.7
67.5°	306.2	229.3	228.1	199.9	242.1
70°	266.5	207.6	205.0	178.1	179.4
72.5°	225.5	183.2	180.6	160.1	148.6
75°	184.5	155.0	153.7	139.6	120.4
77.5°	144.8	123.0	125.6	112.7	88.4
80°	103.8	89.7	92.2	80.7	66.6
82.5°	69.2	58.9	61.5	51.2	44.8
85°	38.4	33.3	34.6	26.9	20.5
87.5°	17.9	15.4	15.4	10.2	6.4
90°	17.4	11.1	10.3	7.1	3.9
92.5°	107.7	76.6	69.9	42.9	15.9
95°	265.1	149.3	136.9	87.5	38.1
97.5°	357.2	164.0	153.1	109.5	65.9
100°	390.7	176.4	166.5	126.9	87.4
102.5°	406.1	188.7	179.5	142.6	105.7
105°	417.4	207.0	199.2	167.9	136.7
107.5°	419.5	233.9	226.7	197.6	168.4
110°	416.3	249.0	242.4	216.2	189.9



TEST NUMBER: P934737

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	416.5	267.3	261.0	235.9	210.9
115°	420.3	294.7	288.9	265.8	242.7
117.5°	428.2	321.3	316.0	295.0	274.0
120°	434.5	336.8	331.8	312.1	292.3
122.5°	443.6	355.1	350.1	330.1	310.2
125°	455.9	378.5	373.9	355.7	337.6
127.5°	468.2	401.1	396.5	378.2	359.8
130°	477.3	416.2	411.3	391.5	371.7
132.5°	484.5	428.5	423.6	403.8	384.0
135°	492.5	442.9	438.3	420.3	402.3
137.5°	504.4	461.1	456.6	438.8	421.0
140°	511.7	473.4	469.3	452.9	436.5
142.5°	517.8	482.6	478.8	463.6	448.4
145°	525.7	496.4	493.1	479.9	466.7
147.5°	537.3	513.9	510.7	497.8	484.9
150°	543.5	523.1	520.2	508.5	496.8
152.5°	547.4	529.0	526.8	518.0	509.1
155°	556.1	542.1	540.5	533.9	527.4
157.5°	564.9	555.3	553.6	547.3	540.9
160°	568.8	561.2	560.0	555.0	550.1
162.5°	573.1	567.6	566.6	563.0	559.2
165°	579.2	576.7	575.9	572.5	569.1
167.5°	584.0	581.8	581.4	579.9	578.2
170°	587.9	587.8	587.4	585.8	584.2
172.5°	588.2	588.2	588.1	587.7	587.4
175°	590.5	591.7	591.7	591.7	591.7
177.5°	590.8	591.7	591.7	591.7	591.7
180°	591.7	591.7	591.7	591.7	591.7



TEST NUMBER: P934737

CATALOG NUMBER: SQ4-FA-075U-075D-92765-1D-UNV-STD-W-6-2700K

**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	11.98	12.82	12.96	13.81	15.11	14.80	15.65	15.78	16.64	17.94
	3H	12.46	13.21	13.44	14.21	15.53	16.15	16.90	17.13	17.90	19.22
	4H	12.65	13.36	13.65	14.36	15.69	16.59	17.30	17.59	18.31	19.64
	6H	12.76	13.42	13.78	14.43	15.77	16.87	17.53	17.88	18.54	19.88
	8H	12.77	13.39	13.78	14.41	15.76	16.95	17.57	17.96	18.59	19.94
	12H	12.74	13.33	13.76	14.35	15.71	16.98	17.58	18.00	18.59	19.96
4H	2H	13.01	13.72	14.02	14.73	16.06	15.21	15.93	16.22	16.93	18.26
	3H	14.04	14.63	15.05	15.66	17.01	16.71	17.31	17.73	18.34	19.69
	4H	14.31	14.85	15.33	15.88	17.25	17.24	17.78	18.26	18.81	20.18
	6H	14.43	14.90	15.47	15.95	17.31	17.60	18.07	18.64	19.12	20.48
	8H	14.44	14.88	15.47	15.92	17.30	17.71	18.15	18.74	19.18	20.57
	12H	14.41	14.80	15.46	15.85	17.24	17.76	18.16	18.82	19.21	20.60
8H	4H	14.76	15.20	15.80	16.24	17.62	17.36	17.80	18.40	18.84	20.22
	6H	15.02	15.38	16.08	16.46	17.84	17.80	18.16	18.86	19.24	20.62
	8H	15.06	15.38	16.13	16.45	17.84	17.95	18.27	19.02	19.33	20.73
	12H	15.05	15.33	16.12	16.39	17.83	18.05	18.32	19.12	19.39	20.82
12H	4H	14.77	15.16	15.82	16.22	17.60	17.33	17.72	18.38	18.78	20.16
	6H	15.08	15.40	16.15	16.47	17.86	17.79	18.11	18.86	19.18	20.58
	8H	15.15	15.43	16.22	16.49	17.93	17.95	18.23	19.02	19.29	20.73