

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: P933892

Luminaire Tested: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-2700K

Issue Date: 12/17/2024

**Test Information**

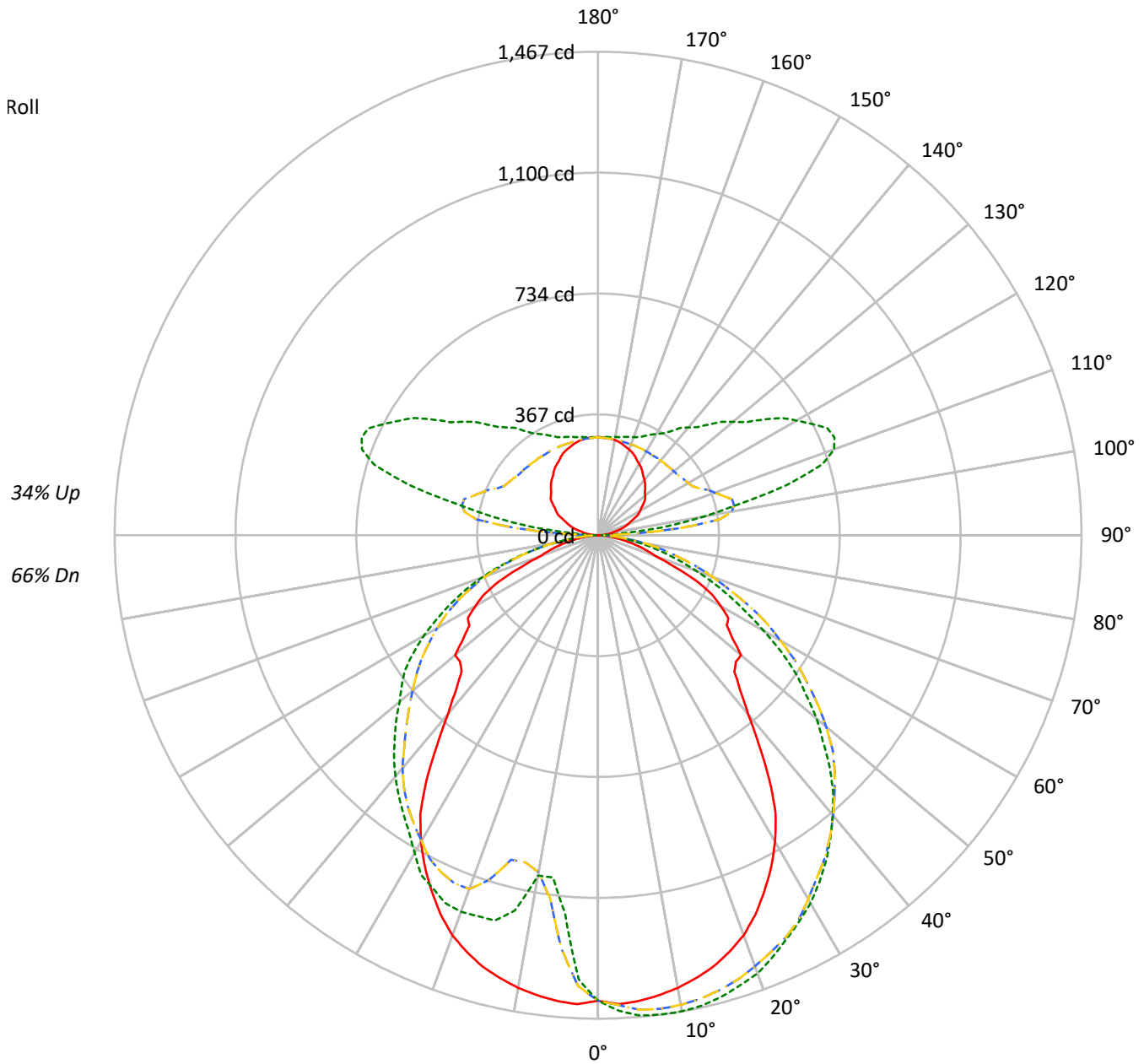
Test Method: LM-79-2019  
Report Number: P933892  
REPORT IS A COMBINATION OF REPORTS P933676 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5589.6 lumens  
Efficiency: N/A  
Efficacy: 127.0 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: Semi-Direct  
  
Input Watts (W): 44  
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	50	30	10	0
RCR																					
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

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

	0°	90°	180°	270°
0°	6552	6552	6552	6552
5°	6601	6613	6601	5200
10°	6556	6515	6556	4657
15°	6485	6373	6485	5322
20°	6349	6206	6349	5333
25°	6072	5962	6072	5220
30°	5713	5760	5713	4972
35°	5093	5504	5093	4699
40°	4244	5202	4244	4494
45°	3792	4849	3792	4256
50°	4028	4429	4028	4018
55°	3790	3975	3790	3881
60°	3907	3376	3907	3554
65°	3542	2791	3542	3120
70°	2452	2224	2452	2615
75°	2151	1645	2151	1969
80°	1732	1087	1732	1183
85°	997	576	997	489

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5812 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.5	2.3
10°-20°	361.9	6.5
20°-30°	559.4	10.0
30°-40°	667.9	11.9
40°-50°	671.8	12.0
50°-60°	584.5	10.5
60°-70°	414.4	7.4
70°-80°	219.3	3.9
80°-90°	55.8	1.0
90°-100°	144.9	2.6
100°-110°	381.0	6.8
110°-120°	395.0	7.1
120°-130°	316.9	5.7
130°-140°	248.6	4.4
140°-150°	190.8	3.4
150°-160°	137.4	2.5
160°-170°	84.1	1.5
170°-180°	28.4	0.5
0°-30°	1048.8	18.8
0°-40°	1716.7	30.7
0°-60°	2973.0	53.2
0°-90°	3662.4	65.5
90°-120°	920.9	16.5
90°-150°	1677.2	30.0
90°-180°	1927.0	34.5
0°-180°	5589.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1412	1412	1412	1412	1412	
5°	1419	1463	1419	1150	1419	135
15°	1355	1450	1355	1210	1355	381
25°	1193	1352	1193	1184	1193	548
35°	907	1206	907	1030	907	561
45°	585	994	585	872	585	469
55°	477	734	477	716	477	438
65°	331	442	331	494	331	317
75°	126	210	126	251	126	132
85°	21	54	21	45	21	29
90°	2	8	2	8	2	3
95°	19	88	19	88	19	21
105°	69	596	69	596	69	73
115°	122	768	122	768	122	120
125°	170	612	170	612	170	151
135°	202	475	202	475	202	156
145°	234	385	234	385	234	147
155°	265	332	265	332	265	122
165°	286	309	286	309	286	81
175°	297	299	297	299	297	28
180°	297	297	297	297	297	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1424.1	1424.1	1432.1	1434.8	1434.8	1430.8	1426.8	1430.8	1442.8	1446.8	1445.5
5°	1418.8	1429.5	1444.2	1446.8	1449.5	1448.2	1445.5	1448.2	1461.5	1464.2	1465.5
7.5°	1408.0	1428.2	1446.8	1450.9	1454.9	1450.9	1449.5	1452.2	1465.5	1468.2	1468.2
10°	1394.7	1422.8	1444.2	1446.8	1450.9	1446.8	1446.8	1452.2	1465.5	1468.2	1469.5
12.5°	1376.0	1414.7	1434.8	1437.4	1442.8	1441.5	1440.1	1445.5	1458.8	1461.5	1461.5
15°	1354.7	1400.1	1418.8	1421.4	1430.8	1428.2	1428.2	1433.4	1448.2	1452.2	1450.9
17.5°	1325.3	1381.4	1402.8	1406.8	1413.4	1412.1	1413.4	1418.8	1432.1	1434.8	1436.1
20°	1291.8	1356.0	1381.4	1385.3	1392.0	1392.0	1392.0	1398.7	1412.1	1417.4	1417.4
22.5°	1246.4	1329.3	1356.0	1358.6	1366.7	1366.7	1369.3	1378.7	1390.7	1392.0	1392.0
25°	1193.0	1299.9	1322.6	1330.6	1338.6	1342.6	1346.6	1352.0	1356.0	1354.7	1356.0
27.5°	1136.9	1262.4	1291.8	1297.2	1307.8	1311.9	1317.2	1318.6	1319.9	1323.9	1321.3
30°	1074.1	1210.3	1254.5	1259.8	1277.2	1279.9	1274.5	1277.2	1283.8	1286.5	1289.2
32.5°	1003.3	1132.9	1215.7	1227.8	1243.8	1235.7	1234.4	1238.4	1249.1	1249.1	1251.8
35°	907.1	1072.8	1179.7	1190.3	1202.4	1193.0	1198.4	1199.7	1206.4	1210.3	1209.0
37.5°	801.6	1020.7	1142.2	1150.3	1159.6	1147.6	1155.6	1159.6	1164.9	1162.2	1162.2
40°	708.1	939.1	1098.2	1103.5	1111.5	1102.2	1110.1	1112.8	1115.5	1112.8	1111.5
42.5°	638.5	849.7	1051.4	1058.1	1052.7	1059.4	1062.0	1067.4	1063.4	1058.1	1058.1
45°	585.2	825.6	1000.6	1008.6	1000.6	1011.3	1015.3	1015.3	1003.3	1000.6	999.3
47.5°	567.8	777.5	949.9	949.9	945.8	959.2	965.9	956.6	944.5	940.5	940.5
50°	566.4	724.1	880.4	875.1	893.7	909.7	903.1	893.7	884.3	869.7	869.7
52.5°	514.3	658.7	790.9	810.9	840.3	849.7	838.9	829.7	813.6	806.9	801.6
55°	476.9	590.5	709.4	749.5	780.2	792.2	772.2	762.8	738.7	734.7	732.1
57.5°	468.9	491.6	634.6	685.3	722.7	721.4	709.4	692.0	672.0	668.0	666.6
60°	430.2	355.4	554.4	614.5	653.3	649.3	638.5	622.5	603.9	601.2	598.5
62.5°	390.1	257.9	463.5	531.7	586.4	585.2	575.8	551.8	538.3	531.7	526.4
65°	331.3	216.4	330.0	442.2	521.0	523.7	503.7	486.2	471.6	463.5	462.2
67.5°	252.5	176.4	223.1	368.7	458.3	455.6	430.2	422.2	403.5	399.5	391.4
70°	187.0	117.5	155.0	299.3	396.8	390.1	370.0	360.8	343.3	334.0	328.7
72.5°	155.0	94.8	113.5	232.5	334.0	326.0	308.6	297.9	283.3	275.2	269.8
75°	125.6	100.2	86.9	172.3	271.2	265.8	249.8	239.1	227.1	216.4	217.7
77.5°	92.2	93.5	69.4	126.9	215.1	207.1	197.7	184.4	179.0	168.3	168.3
80°	69.4	73.5	52.1	86.9	155.0	155.0	146.9	137.6	128.3	122.9	122.9
82.5°	46.7	46.7	38.7	54.8	105.6	101.5	96.2	93.5	88.1	85.5	85.5
85°	21.4	26.7	24.0	33.4	57.5	60.2	60.2	57.5	56.1	53.5	54.8
87.5°	6.7	12.1	14.7	18.7	29.4	30.8	32.1	32.1	32.1	33.4	33.4
90°	2.0	3.6	5.2	5.6	8.8	13.0	15.1	13.4	10.1	7.6	7.6
92.5°	8.0	21.5	35.2	38.5	54.2	75.0	85.4	74.8	53.8	37.9	36.5
95°	19.1	43.9	68.8	75.0	133.2	210.8	249.6	222.7	169.0	128.7	124.1
97.5°	33.2	55.1	76.9	82.4	179.4	308.8	373.5	356.6	322.6	297.1	288.4
100°	43.9	63.7	83.6	88.5	196.2	339.7	411.5	412.8	415.3	417.2	406.9
102.5°	53.1	71.6	90.1	94.7	204.0	349.6	422.4	444.0	487.2	519.7	510.8
105°	68.6	84.4	100.1	104.0	209.8	350.7	421.2	469.7	566.7	639.4	634.7
107.5°	84.6	99.2	113.8	117.5	210.8	335.1	397.2	464.8	600.2	701.7	702.9
110°	95.4	108.6	121.8	125.1	209.2	321.2	377.3	452.9	604.2	717.6	722.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	106.0	118.5	131.1	134.3	209.3	309.2	359.2	436.5	591.3	707.5	715.1
115°	121.9	133.5	145.1	148.0	211.2	295.3	337.3	411.9	561.1	673.0	683.6
117.5°	137.6	148.2	158.8	161.5	215.1	286.6	322.4	389.7	524.3	625.3	637.0
120°	146.8	156.8	166.7	169.2	218.3	283.8	316.4	377.9	500.9	593.1	604.5
122.5°	155.8	165.8	175.9	178.4	222.9	282.2	311.8	367.2	478.0	561.0	572.3
125°	169.6	178.8	187.8	190.1	229.1	281.0	306.9	353.9	448.0	518.5	528.9
127.5°	180.8	189.9	199.2	201.5	235.3	280.2	302.7	343.1	423.9	484.5	493.2
130°	186.8	196.7	206.6	209.1	239.7	280.7	301.1	337.0	409.0	462.8	470.9
132.5°	192.9	202.9	212.7	215.2	243.4	281.0	299.7	331.9	396.2	444.5	451.8
135°	202.1	211.2	220.2	222.5	247.4	280.7	297.3	324.3	378.2	418.6	424.8
137.5°	211.5	220.4	229.4	231.7	253.4	282.4	296.9	319.7	365.2	399.4	404.5
140°	219.2	227.5	235.8	237.8	257.1	282.7	295.5	315.2	354.6	384.1	388.8
142.5°	225.3	232.9	240.5	242.4	260.2	283.8	295.5	312.8	347.4	373.3	377.4
145°	234.5	241.1	247.7	249.4	264.1	283.8	293.5	307.7	336.0	357.2	360.3
147.5°	243.6	250.1	256.6	258.2	269.9	285.7	293.5	304.7	326.9	343.5	346.1
150°	249.6	255.5	261.3	262.7	273.0	286.6	293.5	302.9	321.7	335.8	337.8
152.5°	255.8	260.2	264.6	265.7	275.0	287.3	293.5	301.5	317.5	329.6	331.2
155°	264.9	268.2	271.5	272.3	279.4	288.8	293.5	299.9	312.6	322.2	323.2
157.5°	271.7	274.9	278.1	278.9	283.8	290.2	293.5	298.5	308.4	315.8	316.5
160°	276.3	278.8	281.3	281.9	285.8	290.9	293.5	297.8	306.3	312.6	313.0
162.5°	280.9	282.8	284.6	285.1	287.8	291.6	293.5	297.1	304.3	309.7	310.1
165°	286.0	287.6	289.3	289.7	291.0	292.7	293.5	296.1	301.2	305.1	305.5
167.5°	290.5	291.3	292.1	292.3	293.4	294.8	295.5	297.2	300.6	303.1	303.3
170°	293.5	294.3	295.1	295.3	295.4	295.5	295.5	297.2	300.6	303.1	303.1
172.5°	295.1	295.3	295.5	295.5	295.5	295.5	295.5	296.8	299.5	301.5	301.3
175°	297.3	297.3	297.3	297.3	296.7	295.9	295.5	296.3	298.0	299.3	299.3
177.5°	297.3	297.3	297.3	297.3	296.8	296.2	295.9	296.6	297.9	298.9	298.7
180°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1448.2	1444.2	1448.2	1445.5	1446.8	1442.8	1430.8	1426.8	1430.8	1434.8	1434.8
5°	1465.5	1462.8	1465.5	1465.5	1464.2	1461.5	1448.2	1445.5	1448.2	1449.5	1446.8
7.5°	1470.9	1466.9	1470.9	1468.2	1468.2	1465.5	1452.2	1449.5	1450.9	1454.9	1450.9
10°	1470.9	1466.9	1470.9	1469.5	1468.2	1465.5	1452.2	1446.8	1446.8	1450.9	1446.8
12.5°	1464.2	1461.5	1464.2	1461.5	1461.5	1458.8	1445.5	1440.1	1441.5	1442.8	1437.4
15°	1453.5	1449.5	1453.5	1450.9	1452.2	1448.2	1433.4	1428.2	1428.2	1430.8	1421.4
17.5°	1437.4	1432.1	1437.4	1436.1	1434.8	1432.1	1418.8	1413.4	1412.1	1413.4	1406.8
20°	1418.8	1414.7	1418.8	1417.4	1417.4	1412.1	1398.7	1392.0	1392.0	1392.0	1385.3
22.5°	1389.4	1385.3	1389.4	1392.0	1392.0	1390.7	1378.7	1369.3	1366.7	1366.7	1358.6
25°	1356.0	1352.0	1356.0	1356.0	1354.7	1356.0	1352.0	1346.6	1342.6	1338.6	1330.6
27.5°	1323.9	1321.3	1323.9	1321.3	1323.9	1319.9	1318.6	1317.2	1311.9	1307.8	1297.2
30°	1291.8	1289.2	1291.8	1289.2	1286.5	1283.8	1277.2	1274.5	1279.9	1277.2	1259.8
32.5°	1251.8	1249.1	1251.8	1251.8	1249.1	1249.1	1238.4	1234.4	1235.7	1243.8	1227.8
35°	1210.3	1206.4	1210.3	1209.0	1210.3	1206.4	1199.7	1198.4	1193.0	1202.4	1190.3
37.5°	1162.2	1158.2	1162.2	1162.2	1162.2	1164.9	1159.6	1155.6	1147.6	1159.6	1150.3
40°	1112.8	1107.5	1112.8	1111.5	1112.8	1115.5	1112.8	1110.1	1102.2	1111.5	1103.5
42.5°	1056.8	1055.4	1056.8	1058.1	1058.1	1063.4	1067.4	1062.0	1059.4	1052.7	1058.1
45°	996.6	993.9	996.6	999.3	1000.6	1003.3	1015.3	1015.3	1011.3	1000.6	1008.6
47.5°	932.5	925.8	932.5	940.5	940.5	944.5	956.6	965.9	959.2	945.8	949.9
50°	864.3	865.7	864.3	869.7	869.7	884.3	893.7	903.1	909.7	893.7	875.1
52.5°	797.6	796.2	797.6	801.6	806.9	813.6	829.7	838.9	849.7	840.3	810.9
55°	730.8	733.5	730.8	732.1	734.7	738.7	762.8	772.2	792.2	780.2	749.5
57.5°	663.9	659.9	663.9	666.6	668.0	672.0	692.0	709.4	721.4	722.7	685.3
60°	586.4	581.2	586.4	598.5	601.2	603.9	622.5	638.5	649.3	653.3	614.5
62.5°	518.3	509.0	518.3	526.4	531.7	538.3	551.8	575.8	585.2	586.4	531.7
65°	446.2	442.2	446.2	462.2	463.5	471.6	486.2	503.7	523.7	521.0	442.2
67.5°	380.8	380.8	380.8	391.4	399.5	403.5	422.2	430.2	455.6	458.3	368.7
70°	320.6	319.3	320.6	328.7	334.0	343.3	360.8	370.0	390.1	396.8	299.3
72.5°	263.1	261.8	263.1	269.8	275.2	283.3	297.9	308.6	326.0	334.0	232.5
75°	212.4	209.8	212.4	217.7	216.4	227.1	239.1	249.8	265.8	271.2	172.3
77.5°	162.9	162.9	162.9	168.3	168.3	179.0	184.4	197.7	207.1	215.1	126.9
80°	121.6	120.2	121.6	122.9	122.9	128.3	137.6	146.9	155.0	155.0	86.9
82.5°	85.5	82.9	85.5	85.5	85.5	88.1	93.5	96.2	101.5	105.6	54.8
85°	53.5	53.5	53.5	54.8	53.5	56.1	57.5	60.2	60.2	57.5	33.4
87.5°	34.8	33.4	34.8	33.4	33.4	32.1	32.1	32.1	30.8	29.4	18.7
90°	7.6	7.6	7.6	7.6	7.6	10.1	13.4	15.1	13.0	8.8	5.6
92.5°	30.4	24.3	30.4	36.5	37.9	53.8	74.8	85.4	75.0	54.2	38.5
95°	105.9	87.5	105.9	124.1	128.7	169.0	222.7	249.6	210.8	133.2	75.0
97.5°	253.6	218.8	253.6	288.4	297.1	322.6	356.6	373.5	308.8	179.4	82.4
100°	365.4	324.0	365.4	406.9	417.2	415.3	412.8	411.5	339.7	196.2	88.5
102.5°	475.4	439.9	475.4	510.8	519.7	487.2	444.0	422.4	349.6	204.0	94.7
105°	615.6	596.5	615.6	634.7	639.4	566.7	469.7	421.2	350.7	209.8	104.0
107.5°	707.5	712.0	707.5	702.9	701.7	600.2	464.8	397.2	335.1	210.8	117.5
110°	742.4	762.3	742.4	722.6	717.6	604.2	452.9	377.3	321.2	209.2	125.1





TEST NUMBER: P933892

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-2700K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	745.6	776.1	745.6	715.1	707.5	591.3	436.5	359.2	309.2	209.3	134.3
115°	725.9	768.1	725.9	683.6	673.0	561.1	411.9	337.3	295.3	211.2	148.0
117.5°	684.0	730.9	684.0	637.0	625.3	524.3	389.7	322.4	286.6	215.1	161.5
120°	650.1	695.7	650.1	604.5	593.1	500.9	377.9	316.4	283.8	218.3	169.2
122.5°	617.2	662.1	617.2	572.3	561.0	478.0	367.2	311.8	282.2	222.9	178.4
125°	570.3	611.7	570.3	528.9	518.5	448.0	353.9	306.9	281.0	229.1	190.1
127.5°	528.1	563.0	528.1	493.2	484.5	423.9	343.1	302.7	280.2	235.3	201.5
130°	503.2	535.4	503.2	470.9	462.8	409.0	337.0	301.1	280.7	239.7	209.1
132.5°	480.7	509.6	480.7	451.8	444.5	396.2	331.9	299.7	281.0	243.4	215.2
135°	449.7	474.6	449.7	424.8	418.6	378.2	324.3	297.3	280.7	247.4	222.5
137.5°	424.9	445.3	424.9	404.5	399.4	365.2	319.7	296.9	282.4	253.4	231.7
140°	407.9	427.0	407.9	388.8	384.1	354.6	315.2	295.5	282.7	257.1	237.8
142.5°	393.8	410.2	393.8	377.4	373.3	347.4	312.8	295.5	283.8	260.2	242.4
145°	372.7	385.1	372.7	360.3	357.2	336.0	307.7	293.5	283.8	264.1	249.4
147.5°	356.4	366.7	356.4	346.1	343.5	326.9	304.7	293.5	285.7	269.9	258.2
150°	346.2	354.6	346.2	337.8	335.8	321.7	302.9	293.5	286.6	273.0	262.7
152.5°	337.4	343.7	337.4	331.2	329.6	317.5	301.5	293.5	287.3	275.0	265.7
155°	327.4	331.6	327.4	323.2	322.2	312.6	299.9	293.5	288.8	279.4	272.3
157.5°	319.5	322.4	319.5	316.5	315.8	308.4	298.5	293.5	290.2	283.8	278.9
160°	314.7	316.4	314.7	313.0	312.6	306.3	297.8	293.5	290.9	285.8	281.9
162.5°	311.6	313.2	311.6	310.1	309.7	304.3	297.1	293.5	291.6	287.8	285.1
165°	307.2	308.9	307.2	305.5	305.1	301.2	296.1	293.5	292.7	291.0	289.7
167.5°	304.0	304.7	304.0	303.3	303.1	300.6	297.2	295.5	294.8	293.4	292.3
170°	303.1	303.1	303.1	303.1	303.1	300.6	297.2	295.5	295.5	295.4	295.3
172.5°	300.7	300.1	300.7	301.3	301.5	299.5	296.8	295.5	295.5	295.5	295.5
175°	299.3	299.3	299.3	299.3	299.3	298.0	296.3	295.5	295.9	296.7	297.3
177.5°	298.0	297.3	298.0	298.7	298.9	297.9	296.6	295.9	296.2	296.8	297.3
180°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3



TEST NUMBER: P933892

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1432.1	1424.1	1424.1	1410.7	1405.5	1401.4	1394.7	1374.7	1369.3	1364.0	1372.0
5°	1444.2	1429.5	1418.8	1394.7	1374.7	1366.7	1341.3	1293.2	1261.1	1237.0	1223.7
7.5°	1446.8	1428.2	1408.0	1370.7	1322.6	1301.2	1223.7	1135.5	1111.5	1090.1	1076.8
10°	1444.2	1422.8	1394.7	1338.6	1225.1	1187.6	1110.1	1052.7	1038.0	1034.0	1038.0
12.5°	1434.8	1414.7	1376.0	1282.5	1123.5	1098.2	1052.7	1019.3	1016.6	1023.3	1059.4
15°	1418.8	1400.1	1354.7	1207.6	1067.4	1048.7	1016.6	1004.7	1019.3	1066.1	1174.3
17.5°	1402.8	1381.4	1325.3	1134.2	1024.7	1011.3	988.6	1012.6	1095.5	1158.2	1194.3
20°	1381.4	1356.0	1291.8	1080.8	993.9	982.0	971.2	1079.5	1142.2	1164.9	1184.9
22.5°	1356.0	1329.3	1246.4	1043.4	961.8	952.6	959.2	1116.8	1142.2	1158.2	1175.6
25°	1322.6	1299.9	1193.0	1014.0	936.5	925.8	951.2	1112.8	1127.6	1131.6	1166.3
27.5°	1291.8	1262.4	1136.9	987.2	905.8	901.8	957.9	1095.5	1106.2	1110.1	1147.6
30°	1254.5	1210.3	1074.1	959.2	873.7	872.4	959.2	1074.1	1071.4	1082.2	1119.5
32.5°	1215.7	1132.9	1003.3	924.5	843.0	841.6	949.9	1042.0	1039.3	1054.1	1082.2
35°	1179.7	1072.8	907.1	884.3	804.3	805.6	927.2	1004.7	1006.0	1019.3	1036.7
37.5°	1142.2	1020.7	801.6	840.3	766.8	766.8	896.4	969.9	967.2	971.2	995.3
40°	1098.2	939.1	708.1	782.9	732.1	728.1	859.0	932.5	923.1	921.8	955.2
42.5°	1051.4	849.7	638.5	706.8	692.0	686.6	813.6	887.0	869.7	873.7	916.4
45°	1000.6	825.6	585.2	597.2	650.6	646.6	764.1	834.9	822.9	833.7	877.7
47.5°	949.9	777.5	567.8	495.6	606.6	605.2	709.4	784.2	777.5	788.2	834.9
50°	880.4	724.1	566.4	424.8	557.1	562.4	643.9	734.7	734.7	744.1	793.5
52.5°	790.9	658.7	514.3	384.8	499.6	515.6	586.4	692.0	694.7	704.1	748.1
55°	709.4	590.5	476.9	354.0	431.5	466.2	530.4	647.9	653.3	662.6	702.7
57.5°	634.6	491.6	468.9	317.9	368.7	402.1	481.0	605.2	607.9	615.8	654.6
60°	554.4	355.4	430.2	279.2	313.9	339.3	435.6	554.4	563.7	569.1	602.5
62.5°	463.5	257.9	390.1	252.5	287.2	292.5	398.1	506.4	518.3	522.4	542.4
65°	330.0	216.4	331.3	229.8	259.2	260.6	358.1	456.9	467.6	474.3	488.9
67.5°	223.1	176.4	252.5	208.4	237.8	239.1	319.3	399.5	414.1	419.5	428.9
70°	155.0	117.5	187.0	185.7	213.7	216.4	277.9	347.3	360.8	364.7	370.0
72.5°	113.5	94.8	155.0	167.0	188.3	191.0	235.2	288.5	301.9	306.0	308.6
75°	86.9	100.2	125.6	145.6	160.4	161.7	192.3	235.2	244.5	247.1	248.5
77.5°	69.4	93.5	92.2	117.5	130.9	128.3	151.0	181.7	189.7	189.7	189.7
80°	52.1	73.5	69.4	84.2	96.2	93.5	108.2	129.6	132.3	135.0	133.6
82.5°	38.7	46.7	46.7	53.5	64.1	61.5	72.1	84.2	84.2	84.2	86.9
85°	24.0	26.7	21.4	28.1	36.1	34.8	40.0	45.4	46.7	46.7	44.1
87.5°	14.7	12.1	6.7	10.7	16.0	16.0	18.7	20.0	18.7	18.7	18.7
90°	5.2	3.6	2.0	3.6	5.2	5.6	8.8	13.0	15.1	13.4	10.1
92.5°	35.2	21.5	8.0	21.5	35.2	38.5	54.2	75.0	85.4	74.8	53.8
95°	68.8	43.9	19.1	43.9	68.8	75.0	133.2	210.8	249.6	222.7	169.0
97.5°	76.9	55.1	33.2	55.1	76.9	82.4	179.4	308.8	373.5	356.6	322.6
100°	83.6	63.7	43.9	63.7	83.6	88.5	196.2	339.7	411.5	412.8	415.3
102.5°	90.1	71.6	53.1	71.6	90.1	94.7	204.0	349.6	422.4	444.0	487.2
105°	100.1	84.4	68.6	84.4	100.1	104.0	209.8	350.7	421.2	469.7	566.7
107.5°	113.8	99.2	84.6	99.2	113.8	117.5	210.8	335.1	397.2	464.8	600.2
110°	121.8	108.6	95.4	108.6	121.8	125.1	209.2	321.2	377.3	452.9	604.2



TEST NUMBER: P933892

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	131.1	118.5	106.0	118.5	131.1	134.3	209.3	309.2	359.2	436.5	591.3
115°	145.1	133.5	121.9	133.5	145.1	148.0	211.2	295.3	337.3	411.9	561.1
117.5°	158.8	148.2	137.6	148.2	158.8	161.5	215.1	286.6	322.4	389.7	524.3
120°	166.7	156.8	146.8	156.8	166.7	169.2	218.3	283.8	316.4	377.9	500.9
122.5°	175.9	165.8	155.8	165.8	175.9	178.4	222.9	282.2	311.8	367.2	478.0
125°	187.8	178.8	169.6	178.8	187.8	190.1	229.1	281.0	306.9	353.9	448.0
127.5°	199.2	189.9	180.8	189.9	199.2	201.5	235.3	280.2	302.7	343.1	423.9
130°	206.6	196.7	186.8	196.7	206.6	209.1	239.7	280.7	301.1	337.0	409.0
132.5°	212.7	202.9	192.9	202.9	212.7	215.2	243.4	281.0	299.7	331.9	396.2
135°	220.2	211.2	202.1	211.2	220.2	222.5	247.4	280.7	297.3	324.3	378.2
137.5°	229.4	220.4	211.5	220.4	229.4	231.7	253.4	282.4	296.9	319.7	365.2
140°	235.8	227.5	219.2	227.5	235.8	237.8	257.1	282.7	295.5	315.2	354.6
142.5°	240.5	232.9	225.3	232.9	240.5	242.4	260.2	283.8	295.5	312.8	347.4
145°	247.7	241.1	234.5	241.1	247.7	249.4	264.1	283.8	293.5	307.7	336.0
147.5°	256.6	250.1	243.6	250.1	256.6	258.2	269.9	285.7	293.5	304.7	326.9
150°	261.3	255.5	249.6	255.5	261.3	262.7	273.0	286.6	293.5	302.9	321.7
152.5°	264.6	260.2	255.8	260.2	264.6	265.7	275.0	287.3	293.5	301.5	317.5
155°	271.5	268.2	264.9	268.2	271.5	272.3	279.4	288.8	293.5	299.9	312.6
157.5°	278.1	274.9	271.7	274.9	278.1	278.9	283.8	290.2	293.5	298.5	308.4
160°	281.3	278.8	276.3	278.8	281.3	281.9	285.8	290.9	293.5	297.8	306.3
162.5°	284.6	282.8	280.9	282.8	284.6	285.1	287.8	291.6	293.5	297.1	304.3
165°	289.3	287.6	286.0	287.6	289.3	289.7	291.0	292.7	293.5	296.1	301.2
167.5°	292.1	291.3	290.5	291.3	292.1	292.3	293.4	294.8	295.5	297.2	300.6
170°	295.1	294.3	293.5	294.3	295.1	295.3	295.4	295.5	295.5	297.2	300.6
172.5°	295.5	295.3	295.1	295.3	295.5	295.5	295.5	295.5	295.5	296.8	299.5
175°	297.3	297.3	297.3	297.3	297.3	297.3	296.7	295.9	295.5	296.3	298.0
177.5°	297.3	297.3	297.3	297.3	297.3	297.3	296.8	296.2	295.9	296.6	297.9
180°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3



TEST NUMBER: P933892

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1362.6	1358.6	1364.0	1349.3	1364.0	1358.6	1362.6	1372.0	1364.0	1369.3	1374.7
5°	1195.7	1189.0	1167.6	1150.3	1167.6	1189.0	1195.7	1223.7	1237.0	1261.1	1293.2
7.5°	1068.7	1063.4	1058.1	1047.4	1058.1	1063.4	1068.7	1076.8	1090.1	1111.5	1135.5
10°	1040.7	1042.0	1050.1	1048.7	1050.1	1042.0	1040.7	1038.0	1034.0	1038.0	1052.7
12.5°	1112.8	1124.9	1168.9	1166.3	1168.9	1124.9	1112.8	1059.4	1023.3	1016.6	1019.3
15°	1195.7	1199.7	1209.0	1210.3	1209.0	1199.7	1195.7	1174.3	1066.1	1019.3	1004.7
17.5°	1203.7	1205.1	1211.7	1211.7	1211.7	1205.1	1203.7	1194.3	1158.2	1095.5	1012.6
20°	1197.0	1199.7	1213.0	1215.7	1213.0	1199.7	1197.0	1184.9	1164.9	1142.2	1079.5
22.5°	1194.3	1199.7	1210.3	1209.0	1210.3	1199.7	1194.3	1175.6	1158.2	1142.2	1116.8
25°	1181.0	1181.0	1182.4	1183.6	1182.4	1181.0	1181.0	1166.3	1131.6	1127.6	1112.8
27.5°	1152.9	1155.6	1163.6	1162.2	1163.6	1155.6	1152.9	1147.6	1110.1	1106.2	1095.5
30°	1127.6	1124.9	1118.2	1112.8	1118.2	1124.9	1127.6	1119.5	1082.2	1071.4	1074.1
32.5°	1084.7	1078.1	1071.4	1067.4	1071.4	1078.1	1084.7	1082.2	1054.1	1039.3	1042.0
35°	1034.0	1035.3	1034.0	1030.0	1034.0	1035.3	1034.0	1036.7	1019.3	1006.0	1004.7
37.5°	998.0	1000.6	999.3	993.9	999.3	1000.6	998.0	995.3	971.2	967.2	969.9
40°	960.5	961.8	960.5	956.6	960.5	961.8	960.5	955.2	921.8	923.1	932.5
42.5°	924.5	923.1	919.1	916.4	919.1	923.1	924.5	916.4	873.7	869.7	887.0
45°	883.1	884.3	876.4	872.4	876.4	884.3	883.1	877.7	833.7	822.9	834.9
47.5°	841.6	841.6	834.9	831.0	834.9	841.6	841.6	834.9	788.2	777.5	784.2
50°	797.6	796.2	786.8	785.5	786.8	796.2	797.6	793.5	744.1	734.7	734.7
52.5°	746.8	746.8	748.1	750.8	748.1	746.8	746.8	748.1	704.1	694.7	692.0
55°	702.7	704.1	713.4	716.0	713.4	704.1	702.7	702.7	662.6	653.3	647.9
57.5°	657.3	657.3	663.9	663.9	663.9	657.3	657.3	654.6	615.8	607.9	605.2
60°	605.2	607.9	613.2	611.8	613.2	607.9	605.2	602.5	569.1	563.7	554.4
62.5°	550.4	553.1	554.4	551.8	554.4	553.1	550.4	542.4	522.4	518.3	506.4
65°	492.9	495.6	497.0	494.3	497.0	495.6	492.9	488.9	474.3	467.6	456.9
67.5°	434.2	432.9	431.5	436.8	431.5	432.9	434.2	428.9	419.5	414.1	399.5
70°	374.1	374.1	372.7	375.4	372.7	374.1	374.1	370.0	364.7	360.8	347.3
72.5°	310.0	308.6	313.9	310.0	313.9	308.6	310.0	308.6	306.0	301.9	288.5
75°	247.1	249.8	247.1	251.2	247.1	249.8	247.1	248.5	247.1	244.5	235.2
77.5°	188.3	191.0	188.3	188.3	188.3	191.0	188.3	189.7	189.7	189.7	181.7
80°	133.6	132.3	132.3	130.9	132.3	132.3	133.6	133.6	135.0	132.3	129.6
82.5°	85.5	84.2	84.2	86.9	84.2	84.2	85.5	86.9	84.2	84.2	84.2
85°	46.7	48.1	45.4	45.4	45.4	48.1	46.7	44.1	46.7	46.7	45.4
87.5°	17.3	16.0	16.0	16.0	16.0	16.0	17.3	18.7	18.7	18.7	20.0
90°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	13.4	15.1	13.0
92.5°	37.9	36.5	30.4	24.3	30.4	36.5	37.9	53.8	74.8	85.4	75.0
95°	128.7	124.1	105.9	87.5	105.9	124.1	128.7	169.0	222.7	249.6	210.8
97.5°	297.1	288.4	253.6	218.8	253.6	288.4	297.1	322.6	356.6	373.5	308.8
100°	417.2	406.9	365.4	324.0	365.4	406.9	417.2	415.3	412.8	411.5	339.7
102.5°	519.7	510.8	475.4	439.9	475.4	510.8	519.7	487.2	444.0	422.4	349.6
105°	639.4	634.7	615.6	596.5	615.6	634.7	639.4	566.7	469.7	421.2	350.7
107.5°	701.7	702.9	707.5	712.0	707.5	702.9	701.7	600.2	464.8	397.2	335.1
110°	717.6	722.6	742.4	762.3	742.4	722.6	717.6	604.2	452.9	377.3	321.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	707.5	715.1	745.6	776.1	745.6	715.1	707.5	591.3	436.5	359.2	309.2
115°	673.0	683.6	725.9	768.1	725.9	683.6	673.0	561.1	411.9	337.3	295.3
117.5°	625.3	637.0	684.0	730.9	684.0	637.0	625.3	524.3	389.7	322.4	286.6
120°	593.1	604.5	650.1	695.7	650.1	604.5	593.1	500.9	377.9	316.4	283.8
122.5°	561.0	572.3	617.2	662.1	617.2	572.3	561.0	478.0	367.2	311.8	282.2
125°	518.5	528.9	570.3	611.7	570.3	528.9	518.5	448.0	353.9	306.9	281.0
127.5°	484.5	493.2	528.1	563.0	528.1	493.2	484.5	423.9	343.1	302.7	280.2
130°	462.8	470.9	503.2	535.4	503.2	470.9	462.8	409.0	337.0	301.1	280.7
132.5°	444.5	451.8	480.7	509.6	480.7	451.8	444.5	396.2	331.9	299.7	281.0
135°	418.6	424.8	449.7	474.6	449.7	424.8	418.6	378.2	324.3	297.3	280.7
137.5°	399.4	404.5	424.9	445.3	424.9	404.5	399.4	365.2	319.7	296.9	282.4
140°	384.1	388.8	407.9	427.0	407.9	388.8	384.1	354.6	315.2	295.5	282.7
142.5°	373.3	377.4	393.8	410.2	393.8	377.4	373.3	347.4	312.8	295.5	283.8
145°	357.2	360.3	372.7	385.1	372.7	360.3	357.2	336.0	307.7	293.5	283.8
147.5°	343.5	346.1	356.4	366.7	356.4	346.1	343.5	326.9	304.7	293.5	285.7
150°	335.8	337.8	346.2	354.6	346.2	337.8	335.8	321.7	302.9	293.5	286.6
152.5°	329.6	331.2	337.4	343.7	337.4	331.2	329.6	317.5	301.5	293.5	287.3
155°	322.2	323.2	327.4	331.6	327.4	323.2	322.2	312.6	299.9	293.5	288.8
157.5°	315.8	316.5	319.5	322.4	319.5	316.5	315.8	308.4	298.5	293.5	290.2
160°	312.6	313.0	314.7	316.4	314.7	313.0	312.6	306.3	297.8	293.5	290.9
162.5°	309.7	310.1	311.6	313.2	311.6	310.1	309.7	304.3	297.1	293.5	291.6
165°	305.1	305.5	307.2	308.9	307.2	305.5	305.1	301.2	296.1	293.5	292.7
167.5°	303.1	303.3	304.0	304.7	304.0	303.3	303.1	300.6	297.2	295.5	294.8
170°	303.1	303.1	303.1	303.1	303.1	303.1	303.1	300.6	297.2	295.5	295.5
172.5°	301.5	301.3	300.7	300.1	300.7	301.3	301.5	299.5	296.8	295.5	295.5
175°	299.3	299.3	299.3	299.3	299.3	299.3	299.3	298.0	296.3	295.5	295.9
177.5°	298.9	298.7	298.0	297.3	298.0	298.7	298.9	297.9	296.6	295.9	296.2
180°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1394.7	1401.4	1405.5	1410.7	1424.1
5°	1341.3	1366.7	1374.7	1394.7	1418.8
7.5°	1223.7	1301.2	1322.6	1370.7	1408.0
10°	1110.1	1187.6	1225.1	1338.6	1394.7
12.5°	1052.7	1098.2	1123.5	1282.5	1376.0
15°	1016.6	1048.7	1067.4	1207.6	1354.7
17.5°	988.6	1011.3	1024.7	1134.2	1325.3
20°	971.2	982.0	993.9	1080.8	1291.8
22.5°	959.2	952.6	961.8	1043.4	1246.4
25°	951.2	925.8	936.5	1014.0	1193.0
27.5°	957.9	901.8	905.8	987.2	1136.9
30°	959.2	872.4	873.7	959.2	1074.1
32.5°	949.9	841.6	843.0	924.5	1003.3
35°	927.2	805.6	804.3	884.3	907.1
37.5°	896.4	766.8	766.8	840.3	801.6
40°	859.0	728.1	732.1	782.9	708.1
42.5°	813.6	686.6	692.0	706.8	638.5
45°	764.1	646.6	650.6	597.2	585.2
47.5°	709.4	605.2	606.6	495.6	567.8
50°	643.9	562.4	557.1	424.8	566.4
52.5°	586.4	515.6	499.6	384.8	514.3
55°	530.4	466.2	431.5	354.0	476.9
57.5°	481.0	402.1	368.7	317.9	468.9
60°	435.6	339.3	313.9	279.2	430.2
62.5°	398.1	292.5	287.2	252.5	390.1
65°	358.1	260.6	259.2	229.8	331.3
67.5°	319.3	239.1	237.8	208.4	252.5
70°	277.9	216.4	213.7	185.7	187.0
72.5°	235.2	191.0	188.3	167.0	155.0
75°	192.3	161.7	160.4	145.6	125.6
77.5°	151.0	128.3	130.9	117.5	92.2
80°	108.2	93.5	96.2	84.2	69.4
82.5°	72.1	61.5	64.1	53.5	46.7
85°	40.0	34.8	36.1	28.1	21.4
87.5°	18.7	16.0	16.0	10.7	6.7
90°	8.8	5.6	5.2	3.6	2.0
92.5°	54.2	38.5	35.2	21.5	8.0
95°	133.2	75.0	68.8	43.9	19.1
97.5°	179.4	82.4	76.9	55.1	33.2
100°	196.2	88.5	83.6	63.7	43.9
102.5°	204.0	94.7	90.1	71.6	53.1
105°	209.8	104.0	100.1	84.4	68.6
107.5°	210.8	117.5	113.8	99.2	84.6
110°	209.2	125.1	121.8	108.6	95.4



TEST NUMBER: P933892

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	209.3	134.3	131.1	118.5	106.0
115°	211.2	148.0	145.1	133.5	121.9
117.5°	215.1	161.5	158.8	148.2	137.6
120°	218.3	169.2	166.7	156.8	146.8
122.5°	222.9	178.4	175.9	165.8	155.8
125°	229.1	190.1	187.8	178.8	169.6
127.5°	235.3	201.5	199.2	189.9	180.8
130°	239.7	209.1	206.6	196.7	186.8
132.5°	243.4	215.2	212.7	202.9	192.9
135°	247.4	222.5	220.2	211.2	202.1
137.5°	253.4	231.7	229.4	220.4	211.5
140°	257.1	237.8	235.8	227.5	219.2
142.5°	260.2	242.4	240.5	232.9	225.3
145°	264.1	249.4	247.7	241.1	234.5
147.5°	269.9	258.2	256.6	250.1	243.6
150°	273.0	262.7	261.3	255.5	249.6
152.5°	275.0	265.7	264.6	260.2	255.8
155°	279.4	272.3	271.5	268.2	264.9
157.5°	283.8	278.9	278.1	274.9	271.7
160°	285.8	281.9	281.3	278.8	276.3
162.5°	287.8	285.1	284.6	282.8	280.9
165°	291.0	289.7	289.3	287.6	286.0
167.5°	293.4	292.3	292.1	291.3	290.5
170°	295.4	295.3	295.1	294.3	293.5
172.5°	295.5	295.5	295.5	295.3	295.1
175°	296.7	297.3	297.3	297.3	297.3
177.5°	296.8	297.3	297.3	297.3	297.3
180°	297.3	297.3	297.3	297.3	297.3



TEST NUMBER: P933892  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.66	13.68	13.47	14.51	15.55	15.50	16.52	16.31	17.35	18.38
	3H	13.15	14.06	13.97	14.91	15.97	16.86	17.77	17.68	18.62	19.68
	4H	13.35	14.21	14.19	15.06	16.13	17.31	18.17	18.15	19.03	20.10
	6H	13.47	14.27	14.33	15.13	16.21	17.60	18.40	18.46	19.26	20.34
	8H	13.48	14.24	14.34	15.12	16.20	17.69	18.44	18.55	19.32	20.40
	12H	13.46	14.18	14.32	15.05	16.16	17.73	18.45	18.60	19.32	20.43
4H	2H	13.71	14.58	14.56	15.43	16.50	15.93	16.79	16.77	17.64	18.71
	3H	14.76	15.48	15.61	16.36	17.45	17.45	18.17	18.31	19.05	20.14
	4H	15.04	15.69	15.91	16.58	17.69	17.98	18.64	18.85	19.52	20.63
	6H	15.17	15.74	16.06	16.64	17.76	18.36	18.93	19.25	19.83	20.95
	8H	15.18	15.71	16.07	16.61	17.74	18.47	19.00	19.36	19.90	21.03
	12H	15.16	15.63	16.06	16.55	17.69	18.54	19.01	19.45	19.93	21.07
8H	4H	15.51	16.03	16.39	16.93	18.06	18.12	18.65	19.01	19.55	20.68
	6H	15.77	16.21	16.69	17.15	18.28	18.57	19.00	19.48	19.95	21.07
	8H	15.82	16.21	16.74	17.14	18.29	18.72	19.11	19.65	20.04	21.19
	12H	15.81	16.15	16.74	17.08	18.27	18.83	19.17	19.76	20.10	21.29
12H	4H	15.52	16.00	16.43	16.92	18.05	18.09	18.57	19.00	19.49	20.62
	6H	15.84	16.23	16.76	17.16	18.30	18.56	18.95	19.49	19.89	21.03
	8H	15.91	16.25	16.84	17.18	18.38	18.73	19.08	19.66	20.00	21.20