

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: P934860

Luminaire Tested: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

**Test Information**

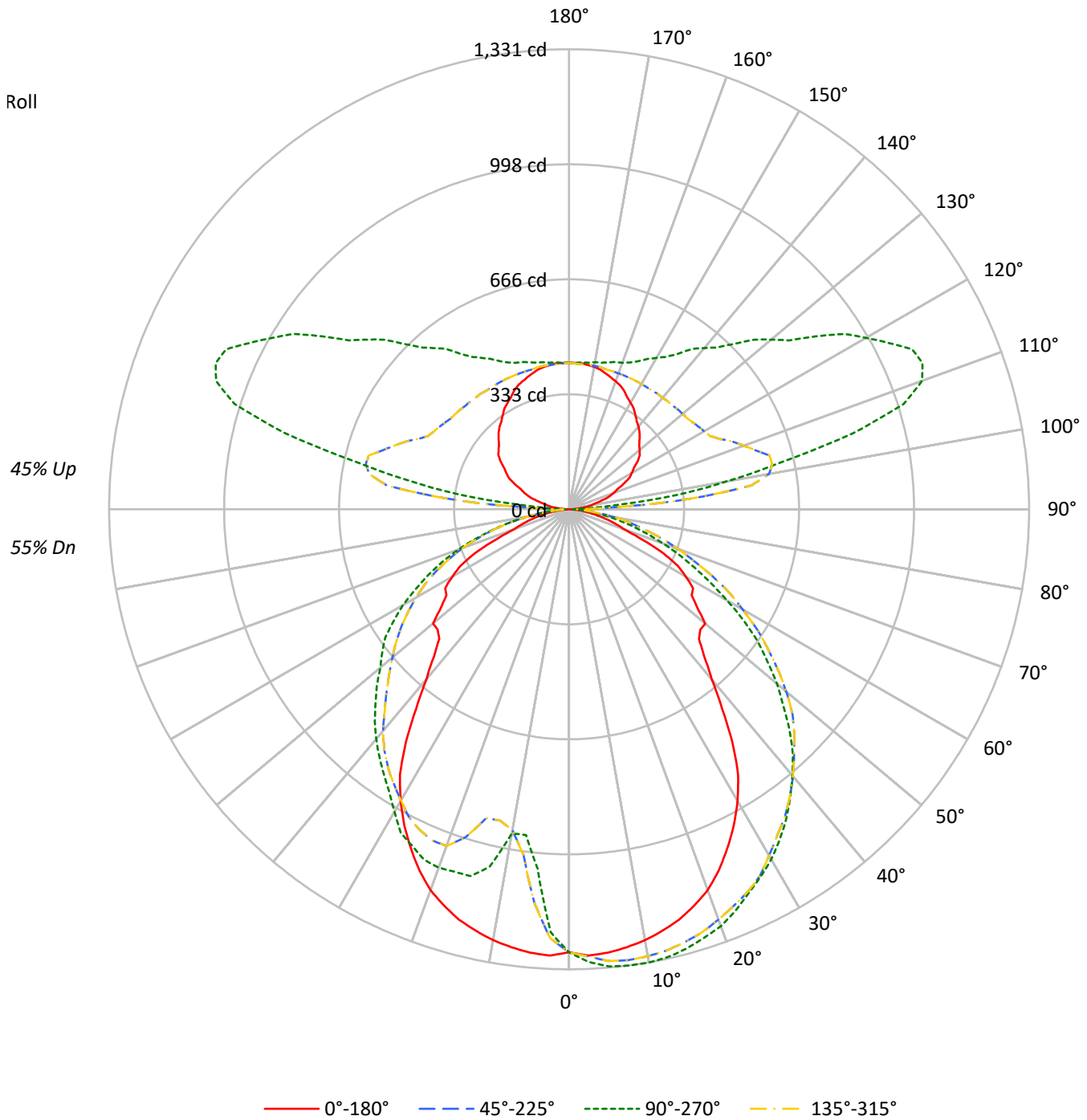
Test Method: LM-79-2019  
Report Number: P934860  
REPORT IS A COMBINATION OF REPORTS P933714 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6072.4 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 51.2  
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





TEST NUMBER: P934860

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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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

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

	0°	90°	180°	270°
0°	11892	11892	11892	11892
5°	11968	12005	11968	9440
10°	11875	11825	11875	8454
15°	11732	11569	11732	9660
20°	11473	11265	11473	9680
25°	10959	10822	10959	9476
30°	10297	10456	10297	9025
35°	9166	9991	9166	8531
40°	7625	9444	7625	8156
45°	6800	8803	6800	7726
50°	7207	8039	7207	7295
55°	6762	7216	6762	7045
60°	6945	6128	6945	6452
65°	6266	5065	6266	5664
70°	4311	4037	4311	4747
75°	3738	2983	3738	3574
80°	2948	1973	2948	2148
85°	1606	1045	1606	888

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10441 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.7	1.9
10°-20°	328.5	5.4
20°-30°	507.8	8.4
30°-40°	606.1	10.0
40°-50°	609.7	10.0
50°-60°	530.5	8.7
60°-70°	376.1	6.2
70°-80°	199.0	3.3
80°-90°	51.2	0.8
90°-100°	206.6	3.4
100°-110°	543.2	8.9
110°-120°	563.2	9.3
120°-130°	451.8	7.4
130°-140°	354.5	5.8
140°-150°	272.1	4.5
150°-160°	195.9	3.2
160°-170°	119.9	2.0
170°-180°	40.5	0.7
0°-30°	951.9	15.7
0°-40°	1558.1	25.7
0°-60°	2698.3	44.4
0°-90°	3324.6	54.7
90°-120°	1313.1	21.6
90°-150°	2391.5	39.4
90°-180°	2748.0	45.3
0°-180°	6072.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1282	1282	1282	1282	1282	
5°	1288	1328	1288	1044	1288	122
15°	1229	1316	1229	1098	1229	346
25°	1083	1227	1083	1074	1083	497
35°	823	1095	823	935	823	509
45°	531	902	531	792	531	425
55°	433	666	433	650	433	398
65°	301	401	301	449	301	287
75°	114	190	114	228	114	120
85°	19	48	19	41	19	26
90°	3	11	3	11	3	3
95°	27	125	27	125	27	30
105°	98	851	98	851	98	104
115°	174	1095	174	1095	174	172
125°	242	872	242	872	242	215
135°	288	677	288	677	288	223
145°	334	549	334	549	334	209
155°	378	473	378	473	378	174
165°	408	440	408	440	408	115
175°	424	427	424	427	424	40
180°	424	424	424	424	424	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1292.5	1292.5	1299.8	1302.2	1302.2	1298.5	1295.0	1298.5	1309.5	1313.1	1311.9
5°	1287.7	1297.3	1310.7	1313.1	1315.5	1314.3	1311.9	1314.3	1326.4	1328.9	1330.1
7.5°	1278.0	1296.2	1313.1	1316.8	1320.4	1316.8	1315.5	1318.0	1330.1	1332.5	1332.5
10°	1265.9	1291.3	1310.7	1313.1	1316.8	1313.1	1313.1	1318.0	1330.1	1332.5	1333.8
12.5°	1248.9	1284.0	1302.2	1304.7	1309.5	1308.3	1307.1	1311.9	1324.1	1326.4	1326.4
15°	1229.4	1270.7	1287.7	1290.1	1298.5	1296.2	1296.2	1301.0	1314.3	1318.0	1316.8
17.5°	1202.8	1253.8	1273.1	1276.8	1282.8	1281.6	1282.8	1287.7	1299.8	1302.2	1303.4
20°	1172.4	1230.7	1253.8	1257.3	1263.4	1263.4	1263.4	1269.4	1281.6	1286.4	1286.4
22.5°	1131.2	1206.4	1230.7	1233.1	1240.4	1240.4	1242.8	1251.3	1262.2	1263.4	1263.4
25°	1082.8	1179.8	1200.3	1207.7	1214.9	1218.5	1222.2	1227.0	1230.7	1229.4	1230.7
27.5°	1031.9	1145.8	1172.4	1177.3	1187.0	1190.7	1195.5	1196.8	1198.0	1201.5	1199.2
30°	974.9	1098.5	1138.5	1143.4	1159.1	1161.5	1156.8	1159.1	1165.2	1167.7	1170.1
32.5°	910.5	1028.2	1103.3	1114.3	1128.9	1121.5	1120.3	1124.0	1133.7	1133.7	1136.1
35°	823.3	973.7	1070.7	1080.3	1091.2	1082.8	1087.6	1088.8	1094.9	1098.5	1097.3
37.5°	727.5	926.3	1036.7	1044.0	1052.4	1041.5	1048.8	1052.4	1057.3	1054.9	1054.9
40°	642.7	852.4	996.7	1001.5	1008.8	1000.3	1007.5	1010.0	1012.4	1010.0	1008.8
42.5°	579.6	771.1	954.2	960.3	955.4	961.5	963.9	968.8	965.1	960.3	960.3
45°	531.1	749.3	908.2	915.4	908.2	917.9	921.5	921.5	910.5	908.2	907.0
47.5°	515.3	705.7	862.1	862.1	858.4	870.5	876.7	868.1	857.2	853.6	853.6
50°	514.1	657.2	799.0	794.2	811.2	825.7	819.7	811.2	802.7	789.3	789.3
52.5°	466.8	597.8	717.8	736.0	762.7	771.1	761.4	753.0	738.4	732.3	727.5
55°	432.9	535.9	643.9	680.2	708.1	719.0	700.8	692.3	670.5	666.9	664.4
57.5°	425.6	446.2	575.9	622.0	656.0	654.8	643.9	628.1	609.9	606.2	605.0
60°	390.4	322.5	503.2	557.8	592.9	589.3	579.6	565.0	548.0	545.7	543.2
62.5°	354.0	234.0	420.8	482.6	532.3	531.1	522.6	500.8	488.7	482.6	477.8
65°	300.7	196.4	299.4	401.3	472.9	475.3	457.1	441.3	428.0	420.8	419.5
67.5°	229.1	160.0	202.4	334.7	415.9	413.4	390.4	383.1	366.2	362.5	355.2
70°	169.8	106.7	140.7	271.6	360.1	354.0	335.9	327.3	311.6	303.1	298.3
72.5°	140.7	86.1	103.1	211.0	303.1	295.9	280.1	270.4	257.0	249.8	244.9
75°	114.0	90.9	78.8	156.4	246.1	241.3	226.8	217.0	206.1	196.4	197.7
77.5°	83.7	84.9	63.0	115.2	195.2	187.9	179.4	167.3	162.4	152.8	152.8
80°	63.0	66.7	47.3	78.8	140.7	140.7	133.3	124.9	116.4	111.6	111.6
82.5°	42.4	42.4	35.1	49.7	95.8	92.1	87.3	84.9	80.0	77.6	77.6
85°	19.4	24.2	21.8	30.3	52.1	54.6	54.6	52.1	50.9	48.5	49.7
87.5°	6.1	10.9	13.3	17.0	26.7	27.9	29.1	29.1	29.1	30.3	30.3
90°	2.8	5.1	7.4	8.0	12.6	18.6	21.7	19.3	14.4	10.8	10.8
92.5°	11.4	30.7	50.0	54.9	77.2	106.9	121.8	106.7	76.6	54.1	51.9
95°	27.3	62.8	98.2	107.0	190.0	300.5	355.9	317.5	240.9	183.4	176.9
97.5°	47.3	78.5	109.7	117.5	255.9	440.3	532.5	508.3	459.9	423.6	411.2
100°	62.6	90.9	119.2	126.3	279.8	484.5	586.9	588.6	592.2	594.8	580.1
102.5°	75.7	102.1	128.5	135.1	290.8	498.5	602.3	633.1	694.8	741.0	728.4
105°	97.8	120.2	142.6	148.2	299.0	500.1	600.5	669.7	808.0	911.7	904.9
107.5°	120.6	141.5	162.3	167.6	300.5	477.8	566.4	662.9	855.8	1000.5	1002.1
110°	136.0	154.8	173.7	178.4	298.3	458.0	538.0	645.8	861.4	1023.2	1030.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	151.1	169.0	186.9	191.4	298.3	440.9	512.1	622.5	843.2	1008.7	1019.7
115°	173.8	190.3	206.9	211.1	301.1	421.0	481.1	587.4	800.0	959.5	974.6
117.5°	196.3	211.3	226.4	230.2	306.7	408.6	459.7	555.7	747.6	891.5	908.2
120°	209.4	223.6	237.7	241.3	311.2	404.5	451.1	538.9	714.2	845.7	862.0
122.5°	222.2	236.5	250.7	254.3	317.7	402.3	444.6	523.5	681.5	800.0	816.0
125°	241.8	254.8	267.9	271.1	326.6	400.6	437.6	504.6	638.8	739.4	754.2
127.5°	257.8	270.9	284.0	287.3	335.4	399.6	431.6	489.2	604.4	690.7	703.2
130°	266.3	280.4	294.6	298.2	341.8	400.1	429.3	480.6	583.1	660.0	671.5
132.5°	275.1	289.3	303.4	307.0	347.1	400.6	427.3	473.2	565.0	633.9	644.1
135°	288.2	301.0	313.9	317.2	352.8	400.2	423.9	462.3	539.2	596.9	605.8
137.5°	301.6	314.3	327.1	330.3	361.3	402.7	423.3	455.8	520.8	569.5	576.8
140°	312.7	324.4	336.2	339.1	366.5	403.1	421.3	449.4	505.5	547.6	554.4
142.5°	321.2	332.0	342.9	345.6	370.8	404.5	421.3	446.0	495.3	532.3	538.1
145°	334.2	343.8	353.2	355.6	376.5	404.5	418.5	438.7	478.9	509.2	513.6
147.5°	347.3	356.5	365.8	368.1	384.9	407.3	418.5	434.3	466.1	489.9	493.5
150°	355.9	364.2	372.6	374.7	389.3	408.7	418.5	431.9	458.7	478.8	481.7
152.5°	364.7	371.0	377.4	378.9	392.1	409.7	418.5	429.9	452.8	470.0	472.2
155°	377.8	382.5	387.1	388.3	398.4	411.8	418.5	427.6	445.7	459.4	460.9
157.5°	387.5	392.0	396.6	397.7	404.6	413.9	418.5	425.5	439.7	450.3	451.3
160°	394.0	397.5	401.0	402.0	407.5	414.8	418.5	424.5	436.7	445.8	446.4
162.5°	400.6	403.2	405.9	406.5	410.5	415.8	418.5	423.6	433.8	441.5	442.1
165°	407.6	410.0	412.4	413.1	414.9	417.3	418.5	422.1	429.5	435.0	435.6
167.5°	414.2	415.3	416.4	416.7	418.3	420.3	421.3	423.7	428.6	432.1	432.4
170°	418.5	419.6	420.8	421.0	421.1	421.2	421.3	423.7	428.6	432.1	432.1
172.5°	420.8	421.0	421.2	421.3	421.3	421.3	421.3	423.2	427.0	429.8	429.7
175°	423.9	423.9	423.9	423.9	423.1	421.9	421.3	422.5	424.9	426.7	426.7
177.5°	423.9	423.9	423.9	423.9	423.2	422.3	421.9	422.8	424.7	426.2	425.9
180°	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1314.3	1310.7	1314.3	1311.9	1313.1	1309.5	1298.5	1295.0	1298.5	1302.2	1302.2
5°	1330.1	1327.7	1330.1	1330.1	1328.9	1326.4	1314.3	1311.9	1314.3	1315.5	1313.1
7.5°	1335.0	1331.3	1335.0	1332.5	1332.5	1330.1	1318.0	1315.5	1316.8	1320.4	1316.8
10°	1335.0	1331.3	1335.0	1333.8	1332.5	1330.1	1318.0	1313.1	1313.1	1316.8	1313.1
12.5°	1328.9	1326.4	1328.9	1326.4	1326.4	1324.1	1311.9	1307.1	1308.3	1309.5	1304.7
15°	1319.2	1315.5	1319.2	1316.8	1318.0	1314.3	1301.0	1296.2	1296.2	1298.5	1290.1
17.5°	1304.7	1299.8	1304.7	1303.4	1302.2	1299.8	1287.7	1282.8	1281.6	1282.8	1276.8
20°	1287.7	1284.0	1287.7	1286.4	1286.4	1281.6	1269.4	1263.4	1263.4	1263.4	1257.3
22.5°	1261.0	1257.3	1261.0	1263.4	1263.4	1262.2	1251.3	1242.8	1240.4	1240.4	1233.1
25°	1230.7	1227.0	1230.7	1230.7	1229.4	1230.7	1227.0	1222.2	1218.5	1214.9	1207.7
27.5°	1201.5	1199.2	1201.5	1199.2	1201.5	1198.0	1196.8	1195.5	1190.7	1187.0	1177.3
30°	1172.4	1170.1	1172.4	1170.1	1167.7	1165.2	1159.1	1156.8	1161.5	1159.1	1143.4
32.5°	1136.1	1133.7	1136.1	1136.1	1133.7	1133.7	1124.0	1120.3	1121.5	1128.9	1114.3
35°	1098.5	1094.9	1098.5	1097.3	1098.5	1094.9	1088.8	1087.6	1082.8	1091.2	1080.3
37.5°	1054.9	1051.2	1054.9	1054.9	1054.9	1057.3	1052.4	1048.8	1041.5	1052.4	1044.0
40°	1010.0	1005.2	1010.0	1008.8	1010.0	1012.4	1010.0	1007.5	1000.3	1008.8	1001.5
42.5°	959.1	957.9	959.1	960.3	960.3	965.1	968.8	963.9	961.5	955.4	960.3
45°	904.5	902.1	904.5	907.0	908.2	910.5	921.5	921.5	917.9	908.2	915.4
47.5°	846.3	840.2	846.3	853.6	853.6	857.2	868.1	876.7	870.5	858.4	862.1
50°	784.4	785.7	784.4	789.3	789.3	802.7	811.2	819.7	825.7	811.2	794.2
52.5°	723.9	722.7	723.9	727.5	732.3	738.4	753.0	761.4	771.1	762.7	736.0
55°	663.2	665.7	663.2	664.4	666.9	670.5	692.3	700.8	719.0	708.1	680.2
57.5°	602.7	599.0	602.7	605.0	606.2	609.9	628.1	643.9	654.8	656.0	622.0
60°	532.3	527.4	532.3	543.2	545.7	548.0	565.0	579.6	589.3	592.9	557.8
62.5°	470.4	462.0	470.4	477.8	482.6	488.7	500.8	522.6	531.1	532.3	482.6
65°	405.0	401.3	405.0	419.5	420.8	428.0	441.3	457.1	475.3	472.9	401.3
67.5°	345.6	345.6	345.6	355.2	362.5	366.2	383.1	390.4	413.4	415.9	334.7
70°	291.0	289.8	291.0	298.3	303.1	311.6	327.3	335.9	354.0	360.1	271.6
72.5°	238.9	237.7	238.9	244.9	249.8	257.0	270.4	280.1	295.9	303.1	211.0
75°	192.8	190.3	192.8	197.7	196.4	206.1	217.0	226.8	241.3	246.1	156.4
77.5°	147.9	147.9	147.9	152.8	152.8	162.4	167.3	179.4	187.9	195.2	115.2
80°	110.3	109.1	110.3	111.6	111.6	116.4	124.9	133.3	140.7	140.7	78.8
82.5°	77.6	75.2	77.6	77.6	77.6	80.0	84.9	87.3	92.1	95.8	49.7
85°	48.5	48.5	48.5	49.7	48.5	50.9	52.1	54.6	54.6	52.1	30.3
87.5°	31.6	30.3	31.6	30.3	30.3	29.1	29.1	29.1	27.9	26.7	17.0
90°	10.8	10.8	10.8	10.8	10.8	14.4	19.3	21.7	18.6	12.6	8.0
92.5°	43.3	34.7	43.3	51.9	54.1	76.6	106.7	121.8	106.9	77.2	54.9
95°	151.0	124.9	151.0	176.9	183.4	240.9	317.5	355.9	300.5	190.0	107.0
97.5°	361.7	312.1	361.7	411.2	423.6	459.9	508.3	532.5	440.3	255.9	117.5
100°	521.1	462.0	521.1	580.1	594.8	592.2	588.6	586.9	484.5	279.8	126.3
102.5°	677.8	627.2	677.8	728.4	741.0	694.8	633.1	602.3	498.5	290.8	135.1
105°	877.8	850.6	877.8	904.9	911.7	808.0	669.7	600.5	500.1	299.0	148.2
107.5°	1008.7	1015.3	1008.7	1002.1	1000.5	855.8	662.9	566.4	477.8	300.5	167.6
110°	1058.7	1087.0	1058.7	1030.3	1023.2	861.4	645.8	538.0	458.0	298.3	178.4





TEST NUMBER: P934860

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1063.1	1106.6	1063.1	1019.7	1008.7	843.2	622.5	512.1	440.9	298.3	191.4
115°	1035.0	1095.3	1035.0	974.6	959.5	800.0	587.4	481.1	421.0	301.1	211.1
117.5°	975.1	1042.0	975.1	908.2	891.5	747.6	555.7	459.7	408.6	306.7	230.2
120°	927.0	991.9	927.0	862.0	845.7	714.2	538.9	451.1	404.5	311.2	241.3
122.5°	880.1	944.2	880.1	816.0	800.0	681.5	523.5	444.6	402.3	317.7	254.3
125°	813.2	872.2	813.2	754.2	739.4	638.8	504.6	437.6	400.6	326.6	271.1
127.5°	753.0	802.8	753.0	703.2	690.7	604.4	489.2	431.6	399.6	335.4	287.3
130°	717.5	763.5	717.5	671.5	660.0	583.1	480.6	429.3	400.1	341.8	298.2
132.5°	685.3	726.5	685.3	644.1	633.9	565.0	473.2	427.3	400.6	347.1	307.0
135°	641.3	676.8	641.3	605.8	596.9	539.2	462.3	423.9	400.2	352.8	317.2
137.5°	605.9	635.0	605.9	576.8	569.5	520.8	455.8	423.3	402.7	361.3	330.3
140°	581.6	608.8	581.6	554.4	547.6	505.5	449.4	421.3	403.1	366.5	339.1
142.5°	561.4	584.8	561.4	538.1	532.3	495.3	446.0	421.3	404.5	370.8	345.6
145°	531.3	549.1	531.3	513.6	509.2	478.9	438.7	418.5	404.5	376.5	355.6
147.5°	508.2	522.9	508.2	493.5	489.9	466.1	434.3	418.5	407.3	384.9	368.1
150°	493.6	505.6	493.6	481.7	478.8	458.7	431.9	418.5	408.7	389.3	374.7
152.5°	481.1	490.1	481.1	472.2	470.0	452.8	429.9	418.5	409.7	392.1	378.9
155°	466.8	472.8	466.8	460.9	459.4	445.7	427.6	418.5	411.8	398.4	388.3
157.5°	455.5	459.7	455.5	451.3	450.3	439.7	425.5	418.5	413.9	404.6	397.7
160°	448.8	451.1	448.8	446.4	445.8	436.7	424.5	418.5	414.8	407.5	402.0
162.5°	444.3	446.6	444.3	442.1	441.5	433.8	423.6	418.5	415.8	410.5	406.5
165°	438.0	440.4	438.0	435.6	435.0	429.5	422.1	418.5	417.3	414.9	413.1
167.5°	433.4	434.4	433.4	432.4	432.1	428.6	423.7	421.3	420.3	418.3	416.7
170°	432.1	432.1	432.1	432.1	432.1	428.6	423.7	421.3	421.2	421.1	421.0
172.5°	428.7	427.8	428.7	429.7	429.8	427.0	423.2	421.3	421.3	421.3	421.3
175°	426.7	426.7	426.7	426.7	426.7	424.9	422.5	421.3	421.9	423.1	423.9
177.5°	424.9	423.9	424.9	425.9	426.2	424.7	422.8	421.9	422.3	423.2	423.9
180°	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9



TEST NUMBER: P934860

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1299.8	1292.5	1292.5	1280.4	1275.5	1271.9	1265.9	1247.7	1242.8	1238.0	1245.2
5°	1310.7	1297.3	1287.7	1265.9	1247.7	1240.4	1217.3	1173.7	1144.5	1122.8	1110.7
7.5°	1313.1	1296.2	1278.0	1244.0	1200.3	1181.0	1110.7	1030.7	1008.8	989.4	977.3
10°	1310.7	1291.3	1265.9	1214.9	1111.9	1077.9	1007.5	955.4	942.1	938.4	942.1
12.5°	1302.2	1284.0	1248.9	1164.0	1019.7	996.7	955.4	925.1	922.7	928.8	961.5
15°	1287.7	1270.7	1229.4	1096.1	968.8	951.8	922.7	911.8	925.1	967.5	1065.8
17.5°	1273.1	1253.8	1202.8	1029.4	930.0	917.9	897.2	919.1	994.2	1051.2	1084.0
20°	1253.8	1230.7	1172.4	980.9	902.1	891.2	881.4	979.7	1036.7	1057.3	1075.4
22.5°	1230.7	1206.4	1131.2	947.0	873.0	864.5	870.5	1013.7	1036.7	1051.2	1067.0
25°	1200.3	1179.8	1082.8	920.3	850.0	840.2	863.3	1010.0	1023.3	1027.0	1058.5
27.5°	1172.4	1145.8	1031.9	896.0	822.1	818.4	869.3	994.2	1004.0	1007.5	1041.5
30°	1138.5	1098.5	974.9	870.5	793.0	791.8	870.5	974.9	972.4	982.1	1016.1
32.5°	1103.3	1028.2	910.5	839.0	765.1	763.9	862.1	945.8	943.3	956.7	982.1
35°	1070.7	973.7	823.3	802.7	729.9	731.1	841.4	911.8	913.0	925.1	940.9
37.5°	1036.7	926.3	727.5	762.7	696.0	696.0	813.5	880.3	877.9	881.4	903.3
40°	996.7	852.4	642.7	710.5	664.4	660.8	779.7	846.3	837.9	836.7	866.9
42.5°	954.2	771.1	579.6	641.4	628.1	623.2	738.4	805.1	789.3	793.0	831.8
45°	908.2	749.3	531.1	542.0	590.4	586.9	693.5	757.8	746.9	756.6	796.7
47.5°	862.1	705.7	515.3	449.9	550.4	549.2	643.9	711.8	705.7	715.3	757.8
50°	799.0	657.2	514.1	385.6	505.6	510.4	584.4	666.9	666.9	675.3	720.2
52.5°	717.8	597.8	466.8	349.2	453.4	468.0	532.3	628.1	630.5	639.0	679.0
55°	643.9	535.9	432.9	321.3	391.7	423.1	481.3	588.1	592.9	601.4	637.8
57.5°	575.9	446.2	425.6	288.6	334.7	365.0	436.5	549.2	551.7	559.0	594.1
60°	503.2	322.5	390.4	253.4	284.9	308.0	395.3	503.2	511.7	516.5	546.9
62.5°	420.8	234.0	354.0	229.1	260.7	265.6	361.3	459.5	470.4	474.1	492.3
65°	299.4	196.4	300.7	208.6	235.2	236.4	325.0	414.7	424.3	430.4	443.8
67.5°	202.4	160.0	229.1	189.1	215.8	217.0	289.8	362.5	375.9	380.8	389.2
70°	140.7	106.7	169.8	168.6	194.0	196.4	252.2	315.2	327.3	331.0	335.9
72.5°	103.1	86.1	140.7	151.6	171.0	173.4	213.4	261.9	274.0	277.7	280.1
75°	78.8	90.9	114.0	132.1	145.5	146.7	174.6	213.4	221.9	224.3	225.5
77.5°	63.0	84.9	83.7	106.7	118.8	116.4	137.0	164.9	172.2	172.2	172.2
80°	47.3	66.7	63.0	76.4	87.3	84.9	98.2	117.6	120.0	122.4	121.2
82.5°	35.1	42.4	42.4	48.5	58.2	55.8	65.4	76.4	76.4	76.4	78.8
85°	21.8	24.2	19.4	25.4	32.8	31.6	36.3	41.2	42.4	42.4	40.0
87.5°	13.3	10.9	6.1	9.7	14.6	14.6	17.0	18.2	17.0	17.0	17.0
90°	7.4	5.1	2.8	5.1	7.4	8.0	12.6	18.6	21.7	19.3	14.4
92.5°	50.0	30.7	11.4	30.7	50.0	54.9	77.2	106.9	121.8	106.7	76.6
95°	98.2	62.8	27.3	62.8	98.2	107.0	190.0	300.5	355.9	317.5	240.9
97.5°	109.7	78.5	47.3	78.5	109.7	117.5	255.9	440.3	532.5	508.3	459.9
100°	119.2	90.9	62.6	90.9	119.2	126.3	279.8	484.5	586.9	588.6	592.2
102.5°	128.5	102.1	75.7	102.1	128.5	135.1	290.8	498.5	602.3	633.1	694.8
105°	142.6	120.2	97.8	120.2	142.6	148.2	299.0	500.1	600.5	669.7	808.0
107.5°	162.3	141.5	120.6	141.5	162.3	167.6	300.5	477.8	566.4	662.9	855.8
110°	173.7	154.8	136.0	154.8	173.7	178.4	298.3	458.0	538.0	645.8	861.4



TEST NUMBER: P934860

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	186.9	169.0	151.1	169.0	186.9	191.4	298.3	440.9	512.1	622.5	843.2
115°	206.9	190.3	173.8	190.3	206.9	211.1	301.1	421.0	481.1	587.4	800.0
117.5°	226.4	211.3	196.3	211.3	226.4	230.2	306.7	408.6	459.7	555.7	747.6
120°	237.7	223.6	209.4	223.6	237.7	241.3	311.2	404.5	451.1	538.9	714.2
122.5°	250.7	236.5	222.2	236.5	250.7	254.3	317.7	402.3	444.6	523.5	681.5
125°	267.9	254.8	241.8	254.8	267.9	271.1	326.6	400.6	437.6	504.6	638.8
127.5°	284.0	270.9	257.8	270.9	284.0	287.3	335.4	399.6	431.6	489.2	604.4
130°	294.6	280.4	266.3	280.4	294.6	298.2	341.8	400.1	429.3	480.6	583.1
132.5°	303.4	289.3	275.1	289.3	303.4	307.0	347.1	400.6	427.3	473.2	565.0
135°	313.9	301.0	288.2	301.0	313.9	317.2	352.8	400.2	423.9	462.3	539.2
137.5°	327.1	314.3	301.6	314.3	327.1	330.3	361.3	402.7	423.3	455.8	520.8
140°	336.2	324.4	312.7	324.4	336.2	339.1	366.5	403.1	421.3	449.4	505.5
142.5°	342.9	332.0	321.2	332.0	342.9	345.6	370.8	404.5	421.3	446.0	495.3
145°	353.2	343.8	334.2	343.8	353.2	355.6	376.5	404.5	418.5	438.7	478.9
147.5°	365.8	356.5	347.3	356.5	365.8	368.1	384.9	407.3	418.5	434.3	466.1
150°	372.6	364.2	355.9	364.2	372.6	374.7	389.3	408.7	418.5	431.9	458.7
152.5°	377.4	371.0	364.7	371.0	377.4	378.9	392.1	409.7	418.5	429.9	452.8
155°	387.1	382.5	377.8	382.5	387.1	388.3	398.4	411.8	418.5	427.6	445.7
157.5°	396.6	392.0	387.5	392.0	396.6	397.7	404.6	413.9	418.5	425.5	439.7
160°	401.0	397.5	394.0	397.5	401.0	402.0	407.5	414.8	418.5	424.5	436.7
162.5°	405.9	403.2	400.6	403.2	405.9	406.5	410.5	415.8	418.5	423.6	433.8
165°	412.4	410.0	407.6	410.0	412.4	413.1	414.9	417.3	418.5	422.1	429.5
167.5°	416.4	415.3	414.2	415.3	416.4	416.7	418.3	420.3	421.3	423.7	428.6
170°	420.8	419.6	418.5	419.6	420.8	421.0	421.1	421.2	421.3	423.7	428.6
172.5°	421.2	421.0	420.8	421.0	421.2	421.3	421.3	421.3	421.3	423.2	427.0
175°	423.9	423.9	423.9	423.9	423.9	423.9	423.1	421.9	421.3	422.5	424.9
177.5°	423.9	423.9	423.9	423.9	423.9	423.9	423.2	422.3	421.9	422.8	424.7
180°	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9



TEST NUMBER: P934860

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1236.8	1233.1	1238.0	1224.6	1238.0	1233.1	1236.8	1245.2	1238.0	1242.8	1247.7
5°	1085.2	1079.1	1059.8	1044.0	1059.8	1079.1	1085.2	1110.7	1122.8	1144.5	1173.7
7.5°	970.0	965.1	960.3	950.5	960.3	965.1	970.0	977.3	989.4	1008.8	1030.7
10°	944.5	945.8	953.0	951.8	953.0	945.8	944.5	942.1	938.4	942.1	955.4
12.5°	1010.0	1020.9	1060.9	1058.5	1060.9	1020.9	1010.0	961.5	928.8	922.7	925.1
15°	1085.2	1088.8	1097.3	1098.5	1097.3	1088.8	1085.2	1065.8	967.5	925.1	911.8
17.5°	1092.4	1093.7	1099.8	1099.8	1099.8	1093.7	1092.4	1084.0	1051.2	994.2	919.1
20°	1086.4	1088.8	1101.0	1103.3	1101.0	1088.8	1086.4	1075.4	1057.3	1036.7	979.7
22.5°	1084.0	1088.8	1098.5	1097.3	1098.5	1088.8	1084.0	1067.0	1051.2	1036.7	1013.7
25°	1071.9	1071.9	1073.1	1074.3	1073.1	1071.9	1071.9	1058.5	1027.0	1023.3	1010.0
27.5°	1046.4	1048.8	1056.1	1054.9	1056.1	1048.8	1046.4	1041.5	1007.5	1004.0	994.2
30°	1023.3	1020.9	1014.9	1010.0	1014.9	1020.9	1023.3	1016.1	982.1	972.4	974.9
32.5°	984.5	978.4	972.4	968.8	972.4	978.4	984.5	982.1	956.7	943.3	945.8
35°	938.4	939.7	938.4	934.9	938.4	939.7	938.4	940.9	925.1	913.0	911.8
37.5°	905.8	908.2	907.0	902.1	907.0	908.2	905.8	903.3	881.4	877.9	880.3
40°	871.8	873.0	871.8	868.1	871.8	873.0	871.8	866.9	836.7	837.9	846.3
42.5°	839.0	837.9	834.2	831.8	834.2	837.9	839.0	831.8	793.0	789.3	805.1
45°	801.4	802.7	795.4	791.8	795.4	802.7	801.4	796.7	756.6	746.9	757.8
47.5°	763.9	763.9	757.8	754.2	757.8	763.9	763.9	757.8	715.3	705.7	711.8
50°	723.9	722.7	714.2	713.0	714.2	722.7	723.9	720.2	675.3	666.9	666.9
52.5°	677.8	677.8	679.0	681.4	679.0	677.8	677.8	679.0	639.0	630.5	628.1
55°	637.8	639.0	647.4	649.9	647.4	639.0	637.8	637.8	601.4	592.9	588.1
57.5°	596.5	596.5	602.7	602.7	602.7	596.5	596.5	594.1	559.0	551.7	549.2
60°	549.2	551.7	556.5	555.3	556.5	551.7	549.2	546.9	516.5	511.7	503.2
62.5°	499.5	502.0	503.2	500.8	503.2	502.0	499.5	492.3	474.1	470.4	459.5
65°	447.4	449.9	451.0	448.7	451.0	449.9	447.4	443.8	430.4	424.3	414.7
67.5°	394.1	392.9	391.7	396.4	391.7	392.9	394.1	389.2	380.8	375.9	362.5
70°	339.5	339.5	338.3	340.7	338.3	339.5	339.5	335.9	331.0	327.3	315.2
72.5°	281.3	280.1	284.9	281.3	284.9	280.1	281.3	280.1	277.7	274.0	261.9
75°	224.3	226.8	224.3	228.0	224.3	226.8	224.3	225.5	224.3	221.9	213.4
77.5°	171.0	173.4	171.0	171.0	171.0	173.4	171.0	172.2	172.2	172.2	164.9
80°	121.2	120.0	120.0	118.8	120.0	120.0	121.2	121.2	122.4	120.0	117.6
82.5°	77.6	76.4	76.4	78.8	76.4	76.4	77.6	78.8	76.4	76.4	76.4
85°	42.4	43.7	41.2	41.2	41.2	43.7	42.4	40.0	42.4	42.4	41.2
87.5°	15.8	14.6	14.6	14.6	14.6	14.6	15.8	17.0	17.0	17.0	18.2
90°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	14.4	19.3	21.7	18.6
92.5°	54.1	51.9	43.3	34.7	43.3	51.9	54.1	76.6	106.7	121.8	106.9
95°	183.4	176.9	151.0	124.9	151.0	176.9	183.4	240.9	317.5	355.9	300.5
97.5°	423.6	411.2	361.7	312.1	361.7	411.2	423.6	459.9	508.3	532.5	440.3
100°	594.8	580.1	521.1	462.0	521.1	580.1	594.8	592.2	588.6	586.9	484.5
102.5°	741.0	728.4	677.8	627.2	677.8	728.4	741.0	694.8	633.1	602.3	498.5
105°	911.7	904.9	877.8	850.6	877.8	904.9	911.7	808.0	669.7	600.5	500.1
107.5°	1000.5	1002.1	1008.7	1015.3	1008.7	1002.1	1000.5	855.8	662.9	566.4	477.8
110°	1023.2	1030.3	1058.7	1087.0	1058.7	1030.3	1023.2	861.4	645.8	538.0	458.0



TEST NUMBER: P934860

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1008.7	1019.7	1063.1	1106.6	1063.1	1019.7	1008.7	843.2	622.5	512.1	440.9
115°	959.5	974.6	1035.0	1095.3	1035.0	974.6	959.5	800.0	587.4	481.1	421.0
117.5°	891.5	908.2	975.1	1042.0	975.1	908.2	891.5	747.6	555.7	459.7	408.6
120°	845.7	862.0	927.0	991.9	927.0	862.0	845.7	714.2	538.9	451.1	404.5
122.5°	800.0	816.0	880.1	944.2	880.1	816.0	800.0	681.5	523.5	444.6	402.3
125°	739.4	754.2	813.2	872.2	813.2	754.2	739.4	638.8	504.6	437.6	400.6
127.5°	690.7	703.2	753.0	802.8	753.0	703.2	690.7	604.4	489.2	431.6	399.6
130°	660.0	671.5	717.5	763.5	717.5	671.5	660.0	583.1	480.6	429.3	400.1
132.5°	633.9	644.1	685.3	726.5	685.3	644.1	633.9	565.0	473.2	427.3	400.6
135°	596.9	605.8	641.3	676.8	641.3	605.8	596.9	539.2	462.3	423.9	400.2
137.5°	569.5	576.8	605.9	635.0	605.9	576.8	569.5	520.8	455.8	423.3	402.7
140°	547.6	554.4	581.6	608.8	581.6	554.4	547.6	505.5	449.4	421.3	403.1
142.5°	532.3	538.1	561.4	584.8	561.4	538.1	532.3	495.3	446.0	421.3	404.5
145°	509.2	513.6	531.3	549.1	531.3	513.6	509.2	478.9	438.7	418.5	404.5
147.5°	489.9	493.5	508.2	522.9	508.2	493.5	489.9	466.1	434.3	418.5	407.3
150°	478.8	481.7	493.6	505.6	493.6	481.7	478.8	458.7	431.9	418.5	408.7
152.5°	470.0	472.2	481.1	490.1	481.1	472.2	470.0	452.8	429.9	418.5	409.7
155°	459.4	460.9	466.8	472.8	466.8	460.9	459.4	445.7	427.6	418.5	411.8
157.5°	450.3	451.3	455.5	459.7	455.5	451.3	450.3	439.7	425.5	418.5	413.9
160°	445.8	446.4	448.8	451.1	448.8	446.4	445.8	436.7	424.5	418.5	414.8
162.5°	441.5	442.1	444.3	446.6	444.3	442.1	441.5	433.8	423.6	418.5	415.8
165°	435.0	435.6	438.0	440.4	438.0	435.6	435.0	429.5	422.1	418.5	417.3
167.5°	432.1	432.4	433.4	434.4	433.4	432.4	432.1	428.6	423.7	421.3	420.3
170°	432.1	432.1	432.1	432.1	432.1	432.1	432.1	428.6	423.7	421.3	421.2
172.5°	429.8	429.7	428.7	427.8	428.7	429.7	429.8	427.0	423.2	421.3	421.3
175°	426.7	426.7	426.7	426.7	426.7	426.7	426.7	424.9	422.5	421.3	421.9
177.5°	426.2	425.9	424.9	423.9	424.9	425.9	426.2	424.7	422.8	421.9	422.3
180°	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9	423.9



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1265.9	1271.9	1275.5	1280.4	1292.5
5°	1217.3	1240.4	1247.7	1265.9	1287.7
7.5°	1110.7	1181.0	1200.3	1244.0	1278.0
10°	1007.5	1077.9	1111.9	1214.9	1265.9
12.5°	955.4	996.7	1019.7	1164.0	1248.9
15°	922.7	951.8	968.8	1096.1	1229.4
17.5°	897.2	917.9	930.0	1029.4	1202.8
20°	881.4	891.2	902.1	980.9	1172.4
22.5°	870.5	864.5	873.0	947.0	1131.2
25°	863.3	840.2	850.0	920.3	1082.8
27.5°	869.3	818.4	822.1	896.0	1031.9
30°	870.5	791.8	793.0	870.5	974.9
32.5°	862.1	763.9	765.1	839.0	910.5
35°	841.4	731.1	729.9	802.7	823.3
37.5°	813.5	696.0	696.0	762.7	727.5
40°	779.7	660.8	664.4	710.5	642.7
42.5°	738.4	623.2	628.1	641.4	579.6
45°	693.5	586.9	590.4	542.0	531.1
47.5°	643.9	549.2	550.4	449.9	515.3
50°	584.4	510.4	505.6	385.6	514.1
52.5°	532.3	468.0	453.4	349.2	466.8
55°	481.3	423.1	391.7	321.3	432.9
57.5°	436.5	365.0	334.7	288.6	425.6
60°	395.3	308.0	284.9	253.4	390.4
62.5°	361.3	265.6	260.7	229.1	354.0
65°	325.0	236.4	235.2	208.6	300.7
67.5°	289.8	217.0	215.8	189.1	229.1
70°	252.2	196.4	194.0	168.6	169.8
72.5°	213.4	173.4	171.0	151.6	140.7
75°	174.6	146.7	145.5	132.1	114.0
77.5°	137.0	116.4	118.8	106.7	83.7
80°	98.2	84.9	87.3	76.4	63.0
82.5°	65.4	55.8	58.2	48.5	42.4
85°	36.3	31.6	32.8	25.4	19.4
87.5°	17.0	14.6	14.6	9.7	6.1
90°	12.6	8.0	7.4	5.1	2.8
92.5°	77.2	54.9	50.0	30.7	11.4
95°	190.0	107.0	98.2	62.8	27.3
97.5°	255.9	117.5	109.7	78.5	47.3
100°	279.8	126.3	119.2	90.9	62.6
102.5°	290.8	135.1	128.5	102.1	75.7
105°	299.0	148.2	142.6	120.2	97.8
107.5°	300.5	167.6	162.3	141.5	120.6
110°	298.3	178.4	173.7	154.8	136.0



TEST NUMBER: P934860

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	298.3	191.4	186.9	169.0	151.1
115°	301.1	211.1	206.9	190.3	173.8
117.5°	306.7	230.2	226.4	211.3	196.3
120°	311.2	241.3	237.7	223.6	209.4
122.5°	317.7	254.3	250.7	236.5	222.2
125°	326.6	271.1	267.9	254.8	241.8
127.5°	335.4	287.3	284.0	270.9	257.8
130°	341.8	298.2	294.6	280.4	266.3
132.5°	347.1	307.0	303.4	289.3	275.1
135°	352.8	317.2	313.9	301.0	288.2
137.5°	361.3	330.3	327.1	314.3	301.6
140°	366.5	339.1	336.2	324.4	312.7
142.5°	370.8	345.6	342.9	332.0	321.2
145°	376.5	355.6	353.2	343.8	334.2
147.5°	384.9	368.1	365.8	356.5	347.3
150°	389.3	374.7	372.6	364.2	355.9
152.5°	392.1	378.9	377.4	371.0	364.7
155°	398.4	388.3	387.1	382.5	377.8
157.5°	404.6	397.7	396.6	392.0	387.5
160°	407.5	402.0	401.0	397.5	394.0
162.5°	410.5	406.5	405.9	403.2	400.6
165°	414.9	413.1	412.4	410.0	407.6
167.5°	418.3	416.7	416.4	415.3	414.2
170°	421.1	421.0	420.8	419.6	418.5
172.5°	421.3	421.3	421.2	421.0	420.8
175°	423.1	423.9	423.9	423.9	423.9
177.5°	423.2	423.9	423.9	423.9	423.9
180°	423.9	423.9	423.9	423.9	423.9



TEST NUMBER: P934860  
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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	13.82	14.73	14.74	15.66	16.86	16.62	17.53	17.54	18.46	19.66
	3H	14.30	15.12	15.23	16.06	17.28	17.96	18.77	18.89	19.71	20.94
	4H	14.50	15.27	15.44	16.21	17.45	18.40	19.17	19.34	20.12	21.35
	6H	14.62	15.33	15.57	16.28	17.53	18.68	19.39	19.63	20.34	21.59
	8H	14.62	15.29	15.58	16.27	17.51	18.75	19.42	19.71	20.40	21.64
	12H	14.59	15.23	15.56	16.20	17.47	18.79	19.43	19.75	20.39	21.66
4H	2H	14.85	15.62	15.80	16.57	17.80	17.04	17.80	17.98	18.75	19.99
	3H	15.88	16.52	16.84	17.50	18.75	18.54	19.18	19.50	20.16	21.41
	4H	16.16	16.75	17.13	17.72	18.99	19.06	19.64	20.03	20.62	21.89
	6H	16.29	16.79	17.27	17.79	19.06	19.42	19.92	20.40	20.92	22.19
	8H	16.30	16.77	17.28	17.76	19.04	19.52	19.99	20.51	20.98	22.27
	12H	16.27	16.69	17.27	17.70	18.99	19.58	20.00	20.58	21.01	22.30
8H	4H	16.61	17.08	17.60	18.07	19.36	19.19	19.66	20.17	20.65	21.94
	6H	16.88	17.27	17.89	18.30	19.58	19.62	20.01	20.63	21.04	22.32
	8H	16.92	17.26	17.94	18.28	19.59	19.77	20.11	20.78	21.13	22.43
	12H	16.91	17.21	17.93	18.22	19.57	19.86	20.16	20.88	21.18	22.53
12H	4H	16.62	17.05	17.62	18.05	19.34	19.16	19.58	20.16	20.59	21.88
	6H	16.94	17.28	17.95	18.30	19.60	19.62	19.96	20.63	20.98	22.28
	8H	17.01	17.31	18.03	18.32	19.67	19.78	20.08	20.80	21.09	22.44