

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: P934859

Luminaire Tested: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

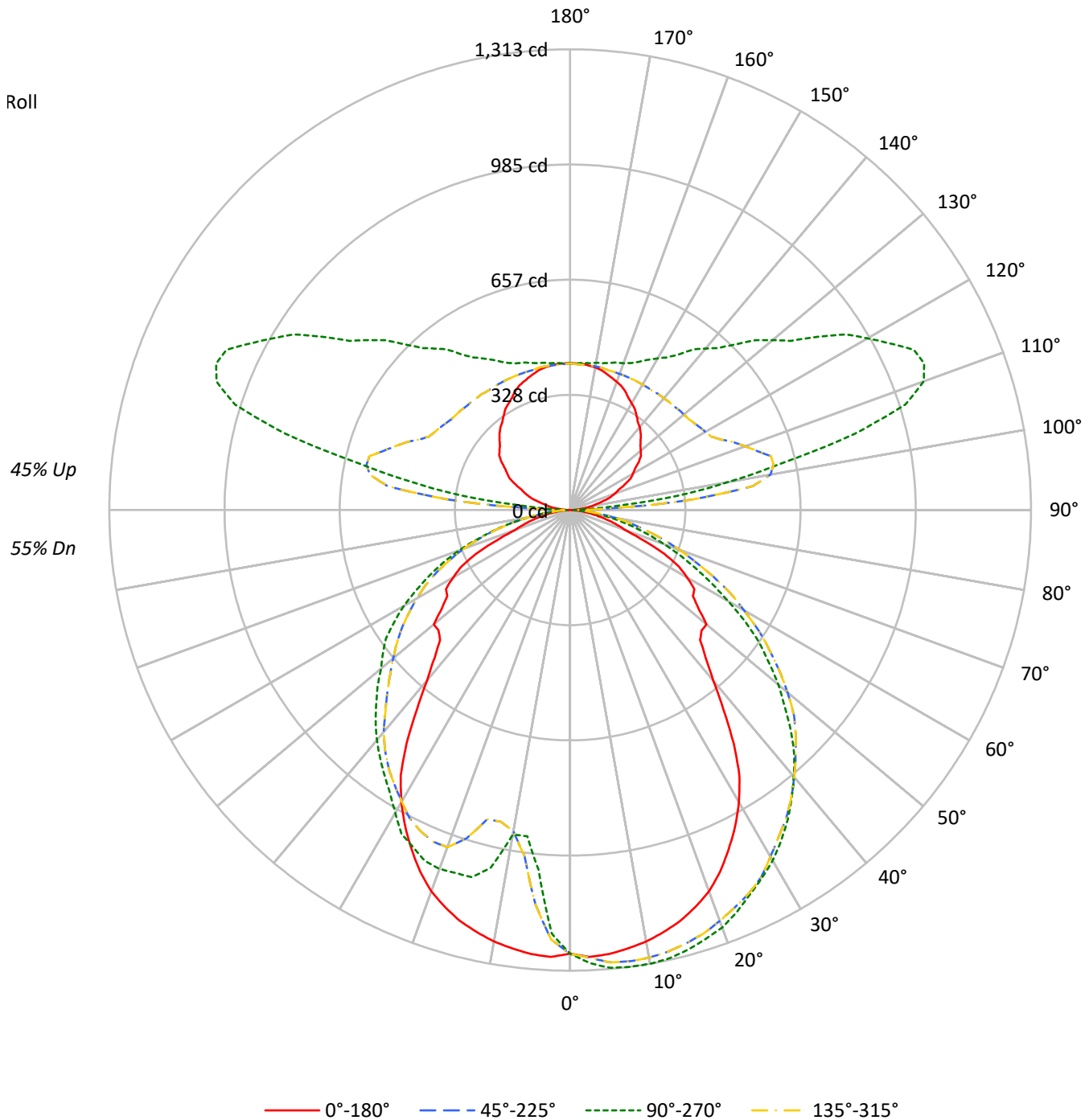
Test Method: LM-79-2019  
Report Number: P934859  
REPORT IS A COMBINATION OF REPORTS P933714 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5989.5 lumens  
Efficiency: N/A  
Efficacy: 117.0 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 (A<sub>in</sub>): 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





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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°	11730	11730	11730	11730
5°	11805	11841	11805	9310
10°	11713	11663	11713	8339
15°	11571	11410	11571	9528
20°	11316	11112	11316	9548
25°	10809	10675	10809	9346
30°	10157	10313	10157	8902
35°	9040	9854	9040	8414
40°	7521	9314	7521	8045
45°	6706	8683	6706	7621
50°	7109	7929	7109	7195
55°	6670	7117	6670	6948
60°	6850	6044	6850	6364
65°	6181	4996	6181	5585
70°	4252	3982	4252	4682
75°	3686	2943	3686	3524
80°	2911	1945	2911	2119
85°	1582	1030	1582	875

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10298 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.1	1.9
10°-20°	324.0	5.4
20°-30°	500.8	8.4
30°-40°	597.9	10.0
40°-50°	601.4	10.0
50°-60°	523.3	8.7
60°-70°	371.0	6.2
70°-80°	196.3	3.3
80°-90°	50.5	0.8
90°-100°	203.8	3.4
100°-110°	535.8	8.9
110°-120°	555.6	9.3
120°-130°	445.6	7.4
130°-140°	349.7	5.8
140°-150°	268.4	4.5
150°-160°	193.3	3.2
160°-170°	118.3	2.0
170°-180°	40.0	0.7
0°-30°	938.9	15.7
0°-40°	1536.8	25.7
0°-60°	2661.4	44.4
0°-90°	3279.2	54.7
90°-120°	1295.2	21.6
90°-150°	2358.8	39.4
90°-180°	2710.0	45.2
0°-180°	5989.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1264	1264	1264	1264	1264	
5°	1270	1310	1270	1030	1270	120
15°	1213	1298	1213	1084	1213	341
25°	1068	1210	1068	1060	1068	490
35°	812	1080	812	922	812	502
45°	524	890	524	781	524	420
55°	427	657	427	641	427	392
65°	297	396	297	442	297	283
75°	112	188	112	225	112	118
85°	19	48	19	41	19	26
90°	3	11	3	11	3	3
95°	27	123	27	123	27	30
105°	96	839	96	839	96	102
115°	171	1080	171	1080	171	169
125°	238	860	238	860	238	212
135°	284	668	284	668	284	220
145°	330	542	330	542	330	207
155°	373	466	373	466	373	171
165°	402	434	402	434	402	113
175°	418	421	418	421	418	40
180°	418	418	418	418	418	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1274.8	1274.8	1282.1	1284.4	1284.4	1280.8	1277.3	1280.8	1291.6	1295.2	1294.0
5°	1270.1	1279.6	1292.8	1295.2	1297.5	1296.4	1294.0	1296.4	1308.3	1310.8	1311.9
7.5°	1260.5	1278.4	1295.2	1298.8	1302.3	1298.8	1297.5	1300.0	1311.9	1314.3	1314.3
10°	1248.6	1273.7	1292.8	1295.2	1298.8	1295.2	1295.2	1300.0	1311.9	1314.3	1315.6
12.5°	1231.8	1266.5	1284.4	1286.9	1291.6	1290.4	1289.2	1294.0	1306.0	1308.3	1308.3
15°	1212.6	1253.4	1270.1	1272.5	1280.8	1278.4	1278.4	1283.2	1296.4	1300.0	1298.8
17.5°	1186.4	1236.6	1255.7	1259.4	1265.3	1264.1	1265.3	1270.1	1282.1	1284.4	1285.6
20°	1156.4	1213.9	1236.6	1240.2	1246.1	1246.1	1246.1	1252.1	1264.1	1268.9	1268.9
22.5°	1115.8	1189.9	1213.9	1216.3	1223.4	1223.4	1225.9	1234.2	1245.0	1246.1	1246.1
25°	1068.0	1163.7	1184.0	1191.2	1198.3	1201.9	1205.5	1210.3	1213.9	1212.6	1213.9
27.5°	1017.8	1130.2	1156.4	1161.2	1170.8	1174.4	1179.2	1180.4	1181.6	1185.1	1182.8
30°	961.6	1083.5	1122.9	1127.7	1143.3	1145.7	1141.0	1143.3	1149.3	1151.7	1154.1
32.5°	898.1	1014.1	1088.3	1099.0	1113.4	1106.2	1105.0	1108.6	1118.2	1118.2	1120.6
35°	812.0	960.4	1056.1	1065.6	1076.3	1068.0	1072.7	1074.0	1079.9	1083.5	1082.3
37.5°	717.5	913.7	1022.6	1029.7	1038.0	1027.3	1034.5	1038.0	1042.8	1040.5	1040.5
40°	633.9	840.7	983.1	987.8	995.0	986.6	993.8	996.2	998.6	996.2	995.0
42.5°	571.7	760.6	941.2	947.2	942.4	948.3	950.8	955.6	952.0	947.2	947.2
45°	523.8	739.1	895.7	902.9	895.7	905.3	908.9	908.9	898.1	895.7	894.6
47.5°	508.2	696.1	850.3	850.3	846.7	858.6	864.7	856.3	845.5	842.0	842.0
50°	507.1	648.2	788.1	783.3	800.1	814.5	808.5	800.1	791.7	778.5	778.5
52.5°	460.5	589.6	708.0	725.9	752.3	760.6	751.0	742.7	728.3	722.3	717.5
55°	427.0	528.6	635.1	670.9	698.4	709.2	691.3	682.9	661.3	657.8	655.3
57.5°	419.8	440.1	568.1	613.5	647.0	645.8	635.1	619.5	601.6	597.9	596.8
60°	385.1	318.1	496.3	550.2	584.8	581.2	571.7	557.3	540.6	538.2	535.8
62.5°	349.2	230.8	415.0	476.0	525.0	523.8	515.5	493.9	482.0	476.0	471.2
65°	296.6	193.7	295.4	395.8	466.4	468.8	450.9	435.3	422.2	415.0	413.7
67.5°	226.0	157.9	199.7	330.1	410.2	407.8	385.1	377.9	361.2	357.5	350.4
70°	167.5	105.3	138.8	267.9	355.2	349.2	331.3	322.9	307.4	299.0	294.2
72.5°	138.8	84.9	101.6	208.1	299.0	291.8	276.3	266.7	253.5	246.4	241.6
75°	112.4	89.7	77.8	154.2	242.8	238.0	223.7	214.1	203.3	193.7	195.0
77.5°	82.6	83.7	62.2	113.6	192.5	185.4	177.0	165.0	160.2	150.7	150.7
80°	62.2	65.8	46.6	77.8	138.8	138.8	131.5	123.2	114.8	110.1	110.1
82.5°	41.8	41.8	34.7	49.1	94.5	90.9	86.1	83.7	78.9	76.6	76.6
85°	19.1	23.9	21.5	29.9	51.4	53.9	53.9	51.4	50.2	47.8	49.1
87.5°	6.0	10.8	13.1	16.7	26.3	27.5	28.7	28.7	28.7	29.9	29.9
90°	2.8	5.1	7.3	7.9	12.4	18.4	21.4	19.0	14.2	10.7	10.7
92.5°	11.2	30.3	49.3	54.1	76.1	105.5	120.1	105.3	75.6	53.3	51.2
95°	27.0	61.9	96.9	105.5	187.4	296.4	351.0	313.2	237.6	180.9	174.5
97.5°	46.6	77.4	108.2	115.9	252.4	434.3	525.3	501.4	453.7	417.8	405.6
100°	61.7	89.6	117.6	124.6	276.0	477.9	578.9	580.6	584.1	586.7	572.2
102.5°	74.7	100.7	126.7	133.2	286.8	491.7	594.1	624.5	685.3	730.9	718.4
105°	96.5	118.6	140.7	146.2	294.9	493.2	592.3	660.6	797.0	899.3	892.6
107.5°	118.9	139.6	160.1	165.3	296.4	471.2	558.7	653.8	844.1	986.8	988.4
110°	134.1	152.7	171.3	176.0	294.2	451.8	530.6	637.0	849.7	1009.3	1016.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	149.0	166.7	184.4	188.8	294.3	434.8	505.1	614.0	831.7	995.0	1005.7
115°	171.4	187.7	204.1	208.2	297.0	415.3	474.5	579.4	789.1	946.4	961.3
117.5°	193.6	208.5	223.3	227.0	302.5	403.1	453.4	548.1	737.3	879.4	895.8
120°	206.6	220.5	234.4	238.0	306.9	399.0	445.0	531.5	704.5	834.2	850.2
122.5°	219.1	233.3	247.3	250.8	313.4	396.8	438.6	516.4	672.2	789.0	804.9
125°	238.5	251.4	264.2	267.4	322.1	395.1	431.6	497.7	630.1	729.3	743.9
127.5°	254.3	267.2	280.1	283.4	330.8	394.1	425.7	482.5	596.1	681.3	693.6
130°	262.7	276.6	290.6	294.1	337.2	394.7	423.4	474.0	575.1	651.0	662.3
132.5°	271.4	285.3	299.2	302.8	342.3	395.1	421.4	466.7	557.3	625.2	635.3
135°	284.2	296.9	309.7	312.8	347.9	394.7	418.1	456.0	531.9	588.7	597.5
137.5°	297.4	310.0	322.6	325.8	356.4	397.2	417.6	449.6	513.7	561.7	568.9
140°	308.4	320.0	331.6	334.5	361.5	397.5	415.6	443.3	498.6	540.1	546.8
142.5°	316.8	327.5	338.2	340.9	365.8	399.0	415.6	439.9	488.5	525.0	530.8
145°	329.7	339.1	348.4	350.7	371.4	399.0	412.8	432.7	472.4	502.3	506.6
147.5°	342.6	351.7	360.8	363.1	379.6	401.7	412.8	428.4	459.7	483.2	486.8
150°	351.0	359.3	367.5	369.6	384.0	403.2	412.8	426.0	452.4	472.2	475.1
152.5°	359.7	366.0	372.2	373.7	386.8	404.1	412.8	424.1	446.6	463.5	465.7
155°	372.7	377.3	381.8	383.0	392.9	406.1	412.8	421.7	439.6	453.1	454.6
157.5°	382.2	386.7	391.2	392.3	399.1	408.2	412.8	419.7	433.7	444.2	445.2
160°	388.6	392.1	395.6	396.5	401.9	409.1	412.8	418.7	430.8	439.7	440.3
162.5°	395.1	397.7	400.4	401.0	404.9	410.1	412.8	417.8	427.9	435.5	436.0
165°	402.1	404.4	406.8	407.4	409.2	411.6	412.8	416.4	423.6	429.0	429.7
167.5°	408.5	409.6	410.8	411.0	412.6	414.6	415.6	417.9	422.7	426.2	426.5
170°	412.8	413.8	415.0	415.3	415.4	415.5	415.6	417.9	422.7	426.2	426.2
172.5°	415.0	415.3	415.5	415.6	415.6	415.6	415.6	417.5	421.2	424.0	423.8
175°	418.1	418.1	418.1	418.1	417.3	416.1	415.6	416.7	419.1	420.9	420.9
177.5°	418.1	418.1	418.1	418.1	417.5	416.6	416.1	417.0	418.9	420.4	420.1
180°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1296.4	1292.8	1296.4	1294.0	1295.2	1291.6	1280.8	1277.3	1280.8	1284.4	1284.4
5°	1311.9	1309.6	1311.9	1311.9	1310.8	1308.3	1296.4	1294.0	1296.4	1297.5	1295.2
7.5°	1316.7	1313.1	1316.7	1314.3	1314.3	1311.9	1300.0	1297.5	1298.8	1302.3	1298.8
10°	1316.7	1313.1	1316.7	1315.6	1314.3	1311.9	1300.0	1295.2	1295.2	1298.8	1295.2
12.5°	1310.8	1308.3	1310.8	1308.3	1308.3	1306.0	1294.0	1289.2	1290.4	1291.6	1286.9
15°	1301.2	1297.5	1301.2	1298.8	1300.0	1296.4	1283.2	1278.4	1278.4	1280.8	1272.5
17.5°	1286.9	1282.1	1286.9	1285.6	1284.4	1282.1	1270.1	1265.3	1264.1	1265.3	1259.4
20°	1270.1	1266.5	1270.1	1268.9	1268.9	1264.1	1252.1	1246.1	1246.1	1246.1	1240.2
22.5°	1243.8	1240.2	1243.8	1246.1	1246.1	1245.0	1234.2	1225.9	1223.4	1223.4	1216.3
25°	1213.9	1210.3	1213.9	1213.9	1212.6	1213.9	1210.3	1205.5	1201.9	1198.3	1191.2
27.5°	1185.1	1182.8	1185.1	1182.8	1185.1	1181.6	1180.4	1179.2	1174.4	1170.8	1161.2
30°	1156.4	1154.1	1156.4	1154.1	1151.7	1149.3	1143.3	1141.0	1145.7	1143.3	1127.7
32.5°	1120.6	1118.2	1120.6	1120.6	1118.2	1118.2	1108.6	1105.0	1106.2	1113.4	1099.0
35°	1083.5	1079.9	1083.5	1082.3	1083.5	1079.9	1074.0	1072.7	1068.0	1076.3	1065.6
37.5°	1040.5	1036.9	1040.5	1040.5	1040.5	1042.8	1038.0	1034.5	1027.3	1038.0	1029.7
40°	996.2	991.4	996.2	995.0	996.2	998.6	996.2	993.8	986.6	995.0	987.8
42.5°	946.0	944.8	946.0	947.2	947.2	952.0	955.6	950.8	948.3	942.4	947.2
45°	892.1	889.8	892.1	894.6	895.7	898.1	908.9	908.9	905.3	895.7	902.9
47.5°	834.7	828.8	834.7	842.0	842.0	845.5	856.3	864.7	858.6	846.7	850.3
50°	773.7	775.0	773.7	778.5	778.5	791.7	800.1	808.5	814.5	800.1	783.3
52.5°	714.0	712.8	714.0	717.5	722.3	728.3	742.7	751.0	760.6	752.3	725.9
55°	654.2	656.6	654.2	655.3	657.8	661.3	682.9	691.3	709.2	698.4	670.9
57.5°	594.4	590.8	594.4	596.8	597.9	601.6	619.5	635.1	645.8	647.0	613.5
60°	525.0	520.2	525.0	535.8	538.2	540.6	557.3	571.7	581.2	584.8	550.2
62.5°	464.0	455.7	464.0	471.2	476.0	482.0	493.9	515.5	523.8	525.0	476.0
65°	399.4	395.8	399.4	413.7	415.0	422.2	435.3	450.9	468.8	466.4	395.8
67.5°	340.9	340.9	340.9	350.4	357.5	361.2	377.9	385.1	407.8	410.2	330.1
70°	287.0	285.8	287.0	294.2	299.0	307.4	322.9	331.3	349.2	355.2	267.9
72.5°	235.6	234.4	235.6	241.6	246.4	253.5	266.7	276.3	291.8	299.0	208.1
75°	190.2	187.7	190.2	195.0	193.7	203.3	214.1	223.7	238.0	242.8	154.2
77.5°	145.9	145.9	145.9	150.7	150.7	160.2	165.0	177.0	185.4	192.5	113.6
80°	108.8	107.6	108.8	110.1	110.1	114.8	123.2	131.5	138.8	138.8	77.8
82.5°	76.6	74.1	76.6	76.6	76.6	78.9	83.7	86.1	90.9	94.5	49.1
85°	47.8	47.8	47.8	49.1	47.8	50.2	51.4	53.9	53.9	51.4	29.9
87.5°	31.1	29.9	31.1	29.9	29.9	28.7	28.7	28.7	27.5	26.3	16.7
90°	10.7	10.7	10.7	10.7	10.7	14.2	19.0	21.4	18.4	12.4	7.9
92.5°	42.7	34.2	42.7	51.2	53.3	75.6	105.3	120.1	105.5	76.1	54.1
95°	148.9	123.2	148.9	174.5	180.9	237.6	313.2	351.0	296.4	187.4	105.5
97.5°	356.7	307.8	356.7	405.6	417.8	453.7	501.4	525.3	434.3	252.4	115.9
100°	514.0	455.7	514.0	572.2	586.7	584.1	580.6	578.9	477.9	276.0	124.6
102.5°	668.6	618.7	668.6	718.4	730.9	685.3	624.5	594.1	491.7	286.8	133.2
105°	865.8	839.0	865.8	892.6	899.3	797.0	660.6	592.3	493.2	294.9	146.2
107.5°	995.0	1001.5	995.0	988.4	986.8	844.1	653.8	558.7	471.2	296.4	165.3
110°	1044.2	1072.2	1044.2	1016.2	1009.3	849.7	637.0	530.6	451.8	294.2	176.0





TEST NUMBER: P934859

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1048.6	1091.5	1048.6	1005.7	995.0	831.7	614.0	505.1	434.8	294.3	188.8
115°	1020.8	1080.3	1020.8	961.3	946.4	789.1	579.4	474.5	415.3	297.0	208.2
117.5°	961.8	1027.8	961.8	895.8	879.4	737.3	548.1	453.4	403.1	302.5	227.0
120°	914.3	978.4	914.3	850.2	834.2	704.5	531.5	445.0	399.0	306.9	238.0
122.5°	868.0	931.3	868.0	804.9	789.0	672.2	516.4	438.6	396.8	313.4	250.8
125°	802.1	860.3	802.1	743.9	729.3	630.1	497.7	431.6	395.1	322.1	267.4
127.5°	742.7	791.8	742.7	693.6	681.3	596.1	482.5	425.7	394.1	330.8	283.4
130°	707.7	753.1	707.7	662.3	651.0	575.1	474.0	423.4	394.7	337.2	294.1
132.5°	676.0	716.6	676.0	635.3	625.2	557.3	466.7	421.4	395.1	342.3	302.8
135°	632.5	667.6	632.5	597.5	588.7	531.9	456.0	418.1	394.7	347.9	312.8
137.5°	597.6	626.3	597.6	568.9	561.7	513.7	449.6	417.6	397.2	356.4	325.8
140°	573.7	600.5	573.7	546.8	540.1	498.6	443.3	415.6	397.5	361.5	334.5
142.5°	553.8	576.9	553.8	530.8	525.0	488.5	439.9	415.6	399.0	365.8	340.9
145°	524.1	541.6	524.1	506.6	502.3	472.4	432.7	412.8	399.0	371.4	350.7
147.5°	501.3	515.8	501.3	486.8	483.2	459.7	428.4	412.8	401.7	379.6	363.1
150°	486.9	498.7	486.9	475.1	472.2	452.4	426.0	412.8	403.2	384.0	369.6
152.5°	474.6	483.4	474.6	465.7	463.5	446.6	424.1	412.8	404.1	386.8	373.7
155°	460.5	466.3	460.5	454.6	453.1	439.6	421.7	412.8	406.1	392.9	383.0
157.5°	449.3	453.4	449.3	445.2	444.2	433.7	419.7	412.8	408.2	399.1	392.3
160°	442.6	445.0	442.6	440.3	439.7	430.8	418.7	412.8	409.1	401.9	396.5
162.5°	438.3	440.5	438.3	436.0	435.5	427.9	417.8	412.8	410.1	404.9	401.0
165°	432.0	434.4	432.0	429.7	429.0	423.6	416.4	412.8	411.6	409.2	407.4
167.5°	427.5	428.5	427.5	426.5	426.2	422.7	417.9	415.6	414.6	412.6	411.0
170°	426.2	426.2	426.2	426.2	426.2	422.7	417.9	415.6	415.5	415.4	415.3
172.5°	422.9	422.0	422.9	423.8	424.0	421.2	417.5	415.6	415.6	415.6	415.6
175°	420.9	420.9	420.9	420.9	420.9	419.1	416.7	415.6	416.1	417.3	418.1
177.5°	419.1	418.1	419.1	420.1	420.4	418.9	417.0	416.1	416.6	417.5	418.1
180°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1



TEST NUMBER: P934859

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1282.1	1274.8	1274.8	1262.9	1258.1	1254.6	1248.6	1230.7	1225.9	1221.1	1228.2
5°	1292.8	1279.6	1270.1	1248.6	1230.7	1223.4	1200.7	1157.7	1128.9	1107.5	1095.5
7.5°	1295.2	1278.4	1260.5	1227.0	1184.0	1164.9	1095.5	1016.6	995.0	975.9	963.9
10°	1292.8	1273.7	1248.6	1198.3	1096.7	1063.2	993.8	942.4	929.2	925.6	929.2
12.5°	1284.4	1266.5	1231.8	1148.1	1005.8	983.1	942.4	912.5	910.1	916.1	948.3
15°	1270.1	1253.4	1212.6	1081.1	955.6	938.8	910.1	899.4	912.5	954.3	1051.3
17.5°	1255.7	1236.6	1186.4	1015.3	917.3	905.3	885.0	906.5	980.7	1036.9	1069.2
20°	1236.6	1213.9	1156.4	967.5	889.8	879.0	869.4	966.3	1022.6	1042.8	1060.8
22.5°	1213.9	1189.9	1115.8	934.0	861.1	852.7	858.6	999.8	1022.6	1036.9	1052.4
25°	1184.0	1163.7	1068.0	907.7	838.4	828.8	851.5	996.2	1009.3	1013.0	1044.0
27.5°	1156.4	1130.2	1017.8	883.8	810.8	807.2	857.5	980.7	990.2	993.8	1027.3
30°	1122.9	1083.5	961.6	858.6	782.1	781.0	858.6	961.6	959.1	968.7	1002.2
32.5°	1088.3	1014.1	898.1	827.6	754.6	753.5	850.3	932.9	930.4	943.6	968.7
35°	1056.1	960.4	812.0	791.7	720.0	721.1	829.9	899.4	900.5	912.5	928.1
37.5°	1022.6	913.7	717.5	752.3	686.5	686.5	802.4	868.2	865.9	869.4	890.9
40°	983.1	840.7	633.9	700.8	655.3	651.8	769.0	834.7	826.4	825.2	855.1
42.5°	941.2	760.6	571.7	632.6	619.5	614.7	728.3	794.1	778.5	782.1	820.4
45°	895.7	739.1	523.8	534.6	582.4	578.9	684.0	747.5	736.7	746.3	785.8
47.5°	850.3	696.1	508.2	443.7	542.9	541.7	635.1	702.0	696.1	705.6	747.5
50°	788.1	648.2	507.1	380.3	498.7	503.5	576.4	657.8	657.8	666.1	710.4
52.5°	708.0	589.6	460.5	344.4	447.2	461.6	525.0	619.5	621.8	630.3	669.7
55°	635.1	528.6	427.0	316.9	386.3	417.4	474.8	580.0	584.8	593.2	629.1
57.5°	568.1	440.1	419.8	284.7	330.1	360.0	430.5	541.7	544.2	551.3	586.0
60°	496.3	318.1	385.1	249.9	281.1	303.8	389.9	496.3	504.7	509.4	539.4
62.5°	415.0	230.8	349.2	226.0	257.2	262.0	356.4	453.2	464.0	467.6	485.5
65°	295.4	193.7	296.6	205.7	232.0	233.2	320.5	409.0	418.5	424.5	437.7
67.5°	199.7	157.9	226.0	186.6	212.9	214.1	285.8	357.5	370.8	375.6	383.9
70°	138.8	105.3	167.5	166.3	191.4	193.7	248.7	310.9	322.9	326.5	331.3
72.5°	101.6	84.9	138.8	149.5	168.6	171.0	210.4	258.3	270.3	273.9	276.3
75°	77.8	89.7	112.4	130.3	143.5	144.7	172.3	210.4	218.9	221.2	222.4
77.5°	62.2	83.7	82.6	105.3	117.2	114.8	135.1	162.7	169.8	169.8	169.8
80°	46.6	65.8	62.2	75.3	86.1	83.7	96.9	116.0	118.4	120.7	119.6
82.5°	34.7	41.8	41.8	47.8	57.4	55.0	64.5	75.3	75.3	75.3	77.8
85°	21.5	23.9	19.1	25.1	32.3	31.1	35.8	40.6	41.8	41.8	39.5
87.5°	13.1	10.8	6.0	9.6	14.4	14.4	16.7	17.9	16.7	16.7	16.7
90°	7.3	5.1	2.8	5.1	7.3	7.9	12.4	18.4	21.4	19.0	14.2
92.5°	49.3	30.3	11.2	30.3	49.3	54.1	76.1	105.5	120.1	105.3	75.6
95°	96.9	61.9	27.0	61.9	96.9	105.5	187.4	296.4	351.0	313.2	237.6
97.5°	108.2	77.4	46.6	77.4	108.2	115.9	252.4	434.3	525.3	501.4	453.7
100°	117.6	89.6	61.7	89.6	117.6	124.6	276.0	477.9	578.9	580.6	584.1
102.5°	126.7	100.7	74.7	100.7	126.7	133.2	286.8	491.7	594.1	624.5	685.3
105°	140.7	118.6	96.5	118.6	140.7	146.2	294.9	493.2	592.3	660.6	797.0
107.5°	160.1	139.6	118.9	139.6	160.1	165.3	296.4	471.2	558.7	653.8	844.1
110°	171.3	152.7	134.1	152.7	171.3	176.0	294.2	451.8	530.6	637.0	849.7



TEST NUMBER: P934859

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	184.4	166.7	149.0	166.7	184.4	188.8	294.3	434.8	505.1	614.0	831.7
115°	204.1	187.7	171.4	187.7	204.1	208.2	297.0	415.3	474.5	579.4	789.1
117.5°	223.3	208.5	193.6	208.5	223.3	227.0	302.5	403.1	453.4	548.1	737.3
120°	234.4	220.5	206.6	220.5	234.4	238.0	306.9	399.0	445.0	531.5	704.5
122.5°	247.3	233.3	219.1	233.3	247.3	250.8	313.4	396.8	438.6	516.4	672.2
125°	264.2	251.4	238.5	251.4	264.2	267.4	322.1	395.1	431.6	497.7	630.1
127.5°	280.1	267.2	254.3	267.2	280.1	283.4	330.8	394.1	425.7	482.5	596.1
130°	290.6	276.6	262.7	276.6	290.6	294.1	337.2	394.7	423.4	474.0	575.1
132.5°	299.2	285.3	271.4	285.3	299.2	302.8	342.3	395.1	421.4	466.7	557.3
135°	309.7	296.9	284.2	296.9	309.7	312.8	347.9	394.7	418.1	456.0	531.9
137.5°	322.6	310.0	297.4	310.0	322.6	325.8	356.4	397.2	417.6	449.6	513.7
140°	331.6	320.0	308.4	320.0	331.6	334.5	361.5	397.5	415.6	443.3	498.6
142.5°	338.2	327.5	316.8	327.5	338.2	340.9	365.8	399.0	415.6	439.9	488.5
145°	348.4	339.1	329.7	339.1	348.4	350.7	371.4	399.0	412.8	432.7	472.4
147.5°	360.8	351.7	342.6	351.7	360.8	363.1	379.6	401.7	412.8	428.4	459.7
150°	367.5	359.3	351.0	359.3	367.5	369.6	384.0	403.2	412.8	426.0	452.4
152.5°	372.2	366.0	359.7	366.0	372.2	373.7	386.8	404.1	412.8	424.1	446.6
155°	381.8	377.3	372.7	377.3	381.8	383.0	392.9	406.1	412.8	421.7	439.6
157.5°	391.2	386.7	382.2	386.7	391.2	392.3	399.1	408.2	412.8	419.7	433.7
160°	395.6	392.1	388.6	392.1	395.6	396.5	401.9	409.1	412.8	418.7	430.8
162.5°	400.4	397.7	395.1	397.7	400.4	401.0	404.9	410.1	412.8	417.8	427.9
165°	406.8	404.4	402.1	404.4	406.8	407.4	409.2	411.6	412.8	416.4	423.6
167.5°	410.8	409.6	408.5	409.6	410.8	411.0	412.6	414.6	415.6	417.9	422.7
170°	415.0	413.8	412.8	413.8	415.0	415.3	415.4	415.5	415.6	417.9	422.7
172.5°	415.5	415.3	415.0	415.3	415.5	415.6	415.6	415.6	415.6	417.5	421.2
175°	418.1	418.1	418.1	418.1	418.1	418.1	417.3	416.1	415.6	416.7	419.1
177.5°	418.1	418.1	418.1	418.1	418.1	418.1	417.5	416.6	416.1	417.0	418.9
180°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1



TEST NUMBER: P934859

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1219.9	1216.3	1221.1	1207.8	1221.1	1216.3	1219.9	1228.2	1221.1	1225.9	1230.7
5°	1070.4	1064.4	1045.3	1029.7	1045.3	1064.4	1070.4	1095.5	1107.5	1128.9	1157.7
7.5°	956.8	952.0	947.2	937.6	947.2	952.0	956.8	963.9	975.9	995.0	1016.6
10°	931.6	932.9	940.0	938.8	940.0	932.9	931.6	929.2	925.6	929.2	942.4
12.5°	996.2	1007.0	1046.5	1044.0	1046.5	1007.0	996.2	948.3	916.1	910.1	912.5
15°	1070.4	1074.0	1082.3	1083.5	1082.3	1074.0	1070.4	1051.3	954.3	912.5	899.4
17.5°	1077.5	1078.8	1084.7	1084.7	1084.7	1078.8	1077.5	1069.2	1036.9	980.7	906.5
20°	1071.5	1074.0	1085.9	1088.3	1085.9	1074.0	1071.5	1060.8	1042.8	1022.6	966.3
22.5°	1069.2	1074.0	1083.5	1082.3	1083.5	1074.0	1069.2	1052.4	1036.9	1022.6	999.8
25°	1057.2	1057.2	1058.4	1059.6	1058.4	1057.2	1057.2	1044.0	1013.0	1009.3	996.2
27.5°	1032.1	1034.5	1041.7	1040.5	1041.7	1034.5	1032.1	1027.3	993.8	990.2	980.7
30°	1009.3	1007.0	1001.0	996.2	1001.0	1007.0	1009.3	1002.2	968.7	959.1	961.6
32.5°	971.1	965.1	959.1	955.6	959.1	965.1	971.1	968.7	943.6	930.4	932.9
35°	925.6	926.9	925.6	922.1	925.6	926.9	925.6	928.1	912.5	900.5	899.4
37.5°	893.4	895.7	894.6	889.8	894.6	895.7	893.4	890.9	869.4	865.9	868.2
40°	859.9	861.1	859.9	856.3	859.9	861.1	859.9	855.1	825.2	826.4	834.7
42.5°	827.6	826.4	822.8	820.4	822.8	826.4	827.6	820.4	782.1	778.5	794.1
45°	790.5	791.7	784.5	781.0	784.5	791.7	790.5	785.8	746.3	736.7	747.5
47.5°	753.5	753.5	747.5	743.9	747.5	753.5	753.5	747.5	705.6	696.1	702.0
50°	714.0	712.8	704.4	703.2	704.4	712.8	714.0	710.4	666.1	657.8	657.8
52.5°	668.6	668.6	669.7	672.1	669.7	668.6	668.6	669.7	630.3	621.8	619.5
55°	629.1	630.3	638.6	641.0	638.6	630.3	629.1	629.1	593.2	584.8	580.0
57.5°	588.4	588.4	594.4	594.4	594.4	588.4	588.4	586.0	551.3	544.2	541.7
60°	541.7	544.2	548.9	547.7	548.9	544.2	541.7	539.4	509.4	504.7	496.3
62.5°	492.7	495.1	496.3	493.9	496.3	495.1	492.7	485.5	467.6	464.0	453.2
65°	441.3	443.7	444.9	442.5	444.9	443.7	441.3	437.7	424.5	418.5	409.0
67.5°	388.7	387.5	386.3	391.0	386.3	387.5	388.7	383.9	375.6	370.8	357.5
70°	334.8	334.8	333.6	336.1	333.6	334.8	334.8	331.3	326.5	322.9	310.9
72.5°	277.4	276.3	281.1	277.4	281.1	276.3	277.4	276.3	273.9	270.3	258.3
75°	221.2	223.7	221.2	224.8	221.2	223.7	221.2	222.4	221.2	218.9	210.4
77.5°	168.6	171.0	168.6	168.6	168.6	171.0	168.6	169.8	169.8	169.8	162.7
80°	119.6	118.4	118.4	117.2	118.4	118.4	119.6	119.6	120.7	118.4	116.0
82.5°	76.6	75.3	75.3	77.8	75.3	75.3	76.6	77.8	75.3	75.3	75.3
85°	41.8	43.1	40.6	40.6	40.6	43.1	41.8	39.5	41.8	41.8	40.6
87.5°	15.6	14.4	14.4	14.4	14.4	14.4	15.6	16.7	16.7	16.7	17.9
90°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	14.2	19.0	21.4	18.4
92.5°	53.3	51.2	42.7	34.2	42.7	51.2	53.3	75.6	105.3	120.1	105.5
95°	180.9	174.5	148.9	123.2	148.9	174.5	180.9	237.6	313.2	351.0	296.4
97.5°	417.8	405.6	356.7	307.8	356.7	405.6	417.8	453.7	501.4	525.3	434.3
100°	586.7	572.2	514.0	455.7	514.0	572.2	586.7	584.1	580.6	578.9	477.9
102.5°	730.9	718.4	668.6	618.7	668.6	718.4	730.9	685.3	624.5	594.1	491.7
105°	899.3	892.6	865.8	839.0	865.8	892.6	899.3	797.0	660.6	592.3	493.2
107.5°	986.8	988.4	995.0	1001.5	995.0	988.4	986.8	844.1	653.8	558.7	471.2
110°	1009.3	1016.2	1044.2	1072.2	1044.2	1016.2	1009.3	849.7	637.0	530.6	451.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	995.0	1005.7	1048.6	1091.5	1048.6	1005.7	995.0	831.7	614.0	505.1	434.8
115°	946.4	961.3	1020.8	1080.3	1020.8	961.3	946.4	789.1	579.4	474.5	415.3
117.5°	879.4	895.8	961.8	1027.8	961.8	895.8	879.4	737.3	548.1	453.4	403.1
120°	834.2	850.2	914.3	978.4	914.3	850.2	834.2	704.5	531.5	445.0	399.0
122.5°	789.0	804.9	868.0	931.3	868.0	804.9	789.0	672.2	516.4	438.6	396.8
125°	729.3	743.9	802.1	860.3	802.1	743.9	729.3	630.1	497.7	431.6	395.1
127.5°	681.3	693.6	742.7	791.8	742.7	693.6	681.3	596.1	482.5	425.7	394.1
130°	651.0	662.3	707.7	753.1	707.7	662.3	651.0	575.1	474.0	423.4	394.7
132.5°	625.2	635.3	676.0	716.6	676.0	635.3	625.2	557.3	466.7	421.4	395.1
135°	588.7	597.5	632.5	667.6	632.5	597.5	588.7	531.9	456.0	418.1	394.7
137.5°	561.7	568.9	597.6	626.3	597.6	568.9	561.7	513.7	449.6	417.6	397.2
140°	540.1	546.8	573.7	600.5	573.7	546.8	540.1	498.6	443.3	415.6	397.5
142.5°	525.0	530.8	553.8	576.9	553.8	530.8	525.0	488.5	439.9	415.6	399.0
145°	502.3	506.6	524.1	541.6	524.1	506.6	502.3	472.4	432.7	412.8	399.0
147.5°	483.2	486.8	501.3	515.8	501.3	486.8	483.2	459.7	428.4	412.8	401.7
150°	472.2	475.1	486.9	498.7	486.9	475.1	472.2	452.4	426.0	412.8	403.2
152.5°	463.5	465.7	474.6	483.4	474.6	465.7	463.5	446.6	424.1	412.8	404.1
155°	453.1	454.6	460.5	466.3	460.5	454.6	453.1	439.6	421.7	412.8	406.1
157.5°	444.2	445.2	449.3	453.4	449.3	445.2	444.2	433.7	419.7	412.8	408.2
160°	439.7	440.3	442.6	445.0	442.6	440.3	439.7	430.8	418.7	412.8	409.1
162.5°	435.5	436.0	438.3	440.5	438.3	436.0	435.5	427.9	417.8	412.8	410.1
165°	429.0	429.7	432.0	434.4	432.0	429.7	429.0	423.6	416.4	412.8	411.6
167.5°	426.2	426.5	427.5	428.5	427.5	426.5	426.2	422.7	417.9	415.6	414.6
170°	426.2	426.2	426.2	426.2	426.2	426.2	426.2	422.7	417.9	415.6	415.5
172.5°	424.0	423.8	422.9	422.0	422.9	423.8	424.0	421.2	417.5	415.6	415.6
175°	420.9	420.9	420.9	420.9	420.9	420.9	420.9	419.1	416.7	415.6	416.1
177.5°	420.4	420.1	419.1	418.1	419.1	420.1	420.4	418.9	417.0	416.1	416.6
180°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1248.6	1254.6	1258.1	1262.9	1274.8
5°	1200.7	1223.4	1230.7	1248.6	1270.1
7.5°	1095.5	1164.9	1184.0	1227.0	1260.5
10°	993.8	1063.2	1096.7	1198.3	1248.6
12.5°	942.4	983.1	1005.8	1148.1	1231.8
15°	910.1	938.8	955.6	1081.1	1212.6
17.5°	885.0	905.3	917.3	1015.3	1186.4
20°	869.4	879.0	889.8	967.5	1156.4
22.5°	858.6	852.7	861.1	934.0	1115.8
25°	851.5	828.8	838.4	907.7	1068.0
27.5°	857.5	807.2	810.8	883.8	1017.8
30°	858.6	781.0	782.1	858.6	961.6
32.5°	850.3	753.5	754.6	827.6	898.1
35°	829.9	721.1	720.0	791.7	812.0
37.5°	802.4	686.5	686.5	752.3	717.5
40°	769.0	651.8	655.3	700.8	633.9
42.5°	728.3	614.7	619.5	632.6	571.7
45°	684.0	578.9	582.4	534.6	523.8
47.5°	635.1	541.7	542.9	443.7	508.2
50°	576.4	503.5	498.7	380.3	507.1
52.5°	525.0	461.6	447.2	344.4	460.5
55°	474.8	417.4	386.3	316.9	427.0
57.5°	430.5	360.0	330.1	284.7	419.8
60°	389.9	303.8	281.1	249.9	385.1
62.5°	356.4	262.0	257.2	226.0	349.2
65°	320.5	233.2	232.0	205.7	296.6
67.5°	285.8	214.1	212.9	186.6	226.0
70°	248.7	193.7	191.4	166.3	167.5
72.5°	210.4	171.0	168.6	149.5	138.8
75°	172.3	144.7	143.5	130.3	112.4
77.5°	135.1	114.8	117.2	105.3	82.6
80°	96.9	83.7	86.1	75.3	62.2
82.5°	64.5	55.0	57.4	47.8	41.8
85°	35.8	31.1	32.3	25.1	19.1
87.5°	16.7	14.4	14.4	9.6	6.0
90°	12.4	7.9	7.3	5.1	2.8
92.5°	76.1	54.1	49.3	30.3	11.2
95°	187.4	105.5	96.9	61.9	27.0
97.5°	252.4	115.9	108.2	77.4	46.6
100°	276.0	124.6	117.6	89.6	61.7
102.5°	286.8	133.2	126.7	100.7	74.7
105°	294.9	146.2	140.7	118.6	96.5
107.5°	296.4	165.3	160.1	139.6	118.9
110°	294.2	176.0	171.3	152.7	134.1



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CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	294.3	188.8	184.4	166.7	149.0
115°	297.0	208.2	204.1	187.7	171.4
117.5°	302.5	227.0	223.3	208.5	193.6
120°	306.9	238.0	234.4	220.5	206.6
122.5°	313.4	250.8	247.3	233.3	219.1
125°	322.1	267.4	264.2	251.4	238.5
127.5°	330.8	283.4	280.1	267.2	254.3
130°	337.2	294.1	290.6	276.6	262.7
132.5°	342.3	302.8	299.2	285.3	271.4
135°	347.9	312.8	309.7	296.9	284.2
137.5°	356.4	325.8	322.6	310.0	297.4
140°	361.5	334.5	331.6	320.0	308.4
142.5°	365.8	340.9	338.2	327.5	316.8
145°	371.4	350.7	348.4	339.1	329.7
147.5°	379.6	363.1	360.8	351.7	342.6
150°	384.0	369.6	367.5	359.3	351.0
152.5°	386.8	373.7	372.2	366.0	359.7
155°	392.9	383.0	381.8	377.3	372.7
157.5°	399.1	392.3	391.2	386.7	382.2
160°	401.9	396.5	395.6	392.1	388.6
162.5°	404.9	401.0	400.4	397.7	395.1
165°	409.2	407.4	406.8	404.4	402.1
167.5°	412.6	411.0	410.8	409.6	408.5
170°	415.4	415.3	415.0	413.8	412.8
172.5°	415.6	415.6	415.5	415.3	415.0
175°	417.3	418.1	418.1	418.1	418.1
177.5°	417.5	418.1	418.1	418.1	418.1
180°	418.1	418.1	418.1	418.1	418.1



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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	13.78	14.68	14.69	15.62	16.82	16.57	17.48	17.49	18.41	19.61
	3H	14.26	15.07	15.18	16.01	17.24	17.91	18.72	18.84	19.67	20.89
	4H	14.45	15.22	15.39	16.17	17.40	18.35	19.12	19.29	20.07	21.30
	6H	14.57	15.28	15.53	16.23	17.48	18.63	19.34	19.59	20.29	21.54
	8H	14.57	15.25	15.53	16.22	17.46	18.70	19.38	19.66	20.35	21.59
	12H	14.55	15.19	15.51	16.15	17.42	18.74	19.38	19.70	20.34	21.62
4H	2H	14.81	15.57	15.75	16.52	17.76	16.99	17.76	17.94	18.71	19.94
	3H	15.84	16.48	16.79	17.46	18.70	18.49	19.13	19.45	20.11	21.36
	4H	16.12	16.70	17.08	17.67	18.95	19.01	19.60	19.98	20.57	21.84
	6H	16.24	16.75	17.22	17.74	19.02	19.37	19.88	20.35	20.87	22.14
	8H	16.25	16.72	17.23	17.71	19.00	19.48	19.95	20.46	20.94	22.22
	12H	16.22	16.64	17.22	17.65	18.94	19.53	19.95	20.53	20.96	22.25
8H	4H	16.57	17.04	17.55	18.03	19.31	19.14	19.61	20.12	20.60	21.89
	6H	16.83	17.22	17.84	18.25	19.54	19.57	19.96	20.58	20.99	22.28
	8H	16.87	17.22	17.89	18.24	19.54	19.72	20.06	20.74	21.08	22.39
	12H	16.86	17.16	17.88	18.17	19.52	19.81	20.12	20.83	21.13	22.48
12H	4H	16.57	17.00	17.58	18.00	19.30	19.11	19.53	20.11	20.54	21.83
	6H	16.89	17.23	17.91	18.25	19.56	19.57	19.91	20.59	20.93	22.24
	8H	16.96	17.26	17.98	18.27	19.62	19.73	20.03	20.75	21.04	22.39