

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: P934688

Luminaire Tested: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934688
REPORT IS A COMBINATION OF REPORTS P933707 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

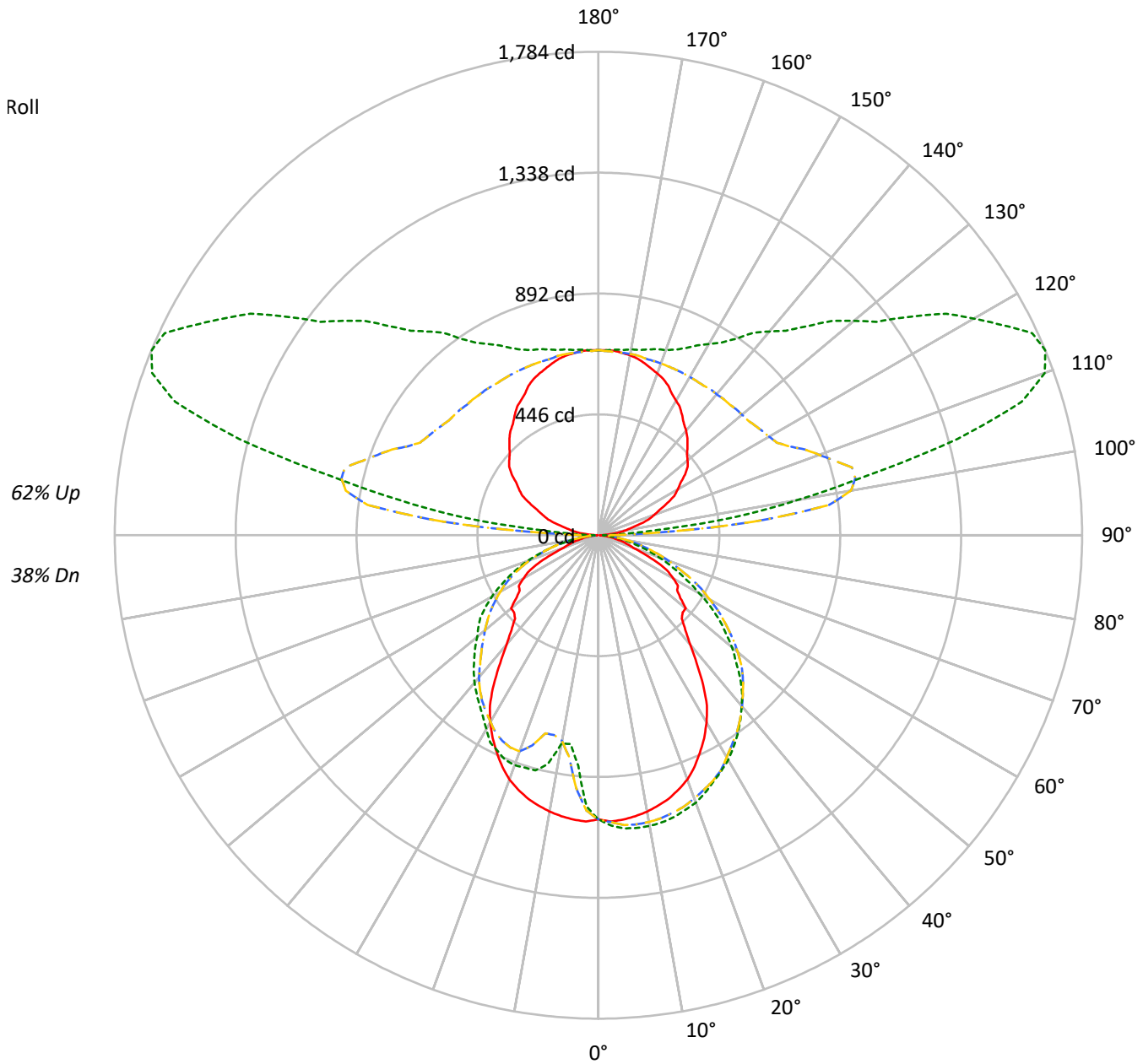
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7149.5 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 51.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P934688
CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-3000K

Luminous Intensity Polar Plot



— 0°-180° — 45°-225° - - 90°-270° - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6486	6486	6486	6486
5°	6531	6547	6531	5148
10°	6486	6449	6486	4611
15°	6413	6309	6413	5268
20°	6277	6144	6277	5279
25°	5999	5903	5999	5167
30°	5642	5702	5642	4922
35°	5028	5449	5028	4652
40°	4187	5150	4187	4448
45°	3738	4800	3738	4214
50°	3968	4384	3968	3978
55°	3730	3936	3730	3842
60°	3841	3342	3841	3519
65°	3477	2763	3477	3088
70°	2401	2201	2401	2589
75°	2099	1627	2099	1949
80°	1679	1075	1679	1172
85°	948	569	948	484

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5734 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	1.3
10°-20°	268.7	3.8
20°-30°	415.4	5.8
30°-40°	495.9	6.9
40°-50°	498.8	7.0
50°-60°	434.0	6.1
60°-70°	307.7	4.3
70°-80°	162.8	2.3
80°-90°	43.1	0.6
90°-100°	333.0	4.7
100°-110°	875.5	12.2
110°-120°	907.8	12.7
120°-130°	728.1	10.2
130°-140°	571.3	8.0
140°-150°	438.5	6.1
150°-160°	315.8	4.4
160°-170°	193.2	2.7
170°-180°	65.3	0.9
0°-30°	778.7	10.9
0°-40°	1274.6	17.8
0°-60°	2207.3	30.9
0°-90°	2721.0	38.1
90°-120°	2116.2	29.6
90°-150°	3854.2	53.9
90°-180°	4428.0	61.9
0°-180°	7149.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1048	1048	1048	1048	1048	
5°	1053	1086	1053	854	1053	100
15°	1006	1076	1006	899	1006	283
25°	886	1004	886	879	886	407
35°	674	896	674	765	674	417
45°	434	738	434	648	434	348
55°	354	545	354	532	354	325
65°	246	328	246	367	246	235
75°	93	156	93	186	93	98
85°	16	40	16	34	16	21
90°	4	18	4	18	4	4
95°	44	201	44	201	44	49
105°	158	1371	158	1371	158	167
115°	280	1765	280	1765	280	277
125°	390	1406	390	1406	390	346
135°	464	1091	464	1091	464	359
145°	539	885	539	885	539	338
155°	609	762	609	762	609	280
165°	657	710	657	710	657	185
175°	683	688	683	688	683	65
180°	683	683	683	683	683	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1057.4	1057.4	1063.3	1065.3	1065.3	1062.3	1059.4	1062.3	1071.3	1074.2	1073.3
5°	1053.3	1061.3	1072.3	1074.2	1076.2	1075.2	1073.3	1075.2	1085.1	1087.2	1088.1
7.5°	1045.5	1060.3	1074.2	1077.2	1080.2	1077.2	1076.2	1078.2	1088.1	1090.1	1090.1
10°	1035.5	1056.4	1072.3	1074.2	1077.2	1074.2	1074.2	1078.2	1088.1	1090.1	1091.1
12.5°	1021.7	1050.4	1065.3	1067.2	1071.3	1070.3	1069.2	1073.3	1083.1	1085.1	1085.1
15°	1005.8	1039.5	1053.3	1055.4	1062.3	1060.3	1060.3	1064.3	1075.2	1078.2	1077.2
17.5°	983.9	1025.6	1041.5	1044.5	1049.4	1048.4	1049.4	1053.3	1063.3	1065.3	1066.3
20°	959.2	1006.8	1025.6	1028.6	1033.5	1033.5	1033.5	1038.6	1048.4	1052.4	1052.4
22.5°	925.5	986.9	1006.8	1008.8	1014.7	1014.7	1016.7	1023.7	1032.5	1033.5	1033.5
25°	885.7	965.1	982.0	988.0	993.9	996.8	999.8	1003.8	1006.8	1005.8	1006.8
27.5°	844.1	937.3	959.2	963.1	971.1	974.1	978.0	979.0	980.0	982.9	981.0
30°	797.5	898.6	931.4	935.3	948.2	950.2	946.3	948.2	953.2	955.2	957.2
32.5°	744.9	841.2	902.6	911.6	923.5	917.5	916.5	919.4	927.4	927.4	929.4
35°	673.5	796.5	875.9	883.8	892.7	885.7	889.8	890.8	895.7	898.6	897.7
37.5°	595.1	757.8	848.1	854.0	861.0	852.0	858.0	861.0	864.9	862.9	862.9
40°	525.7	697.3	815.3	819.3	825.3	818.3	824.3	826.3	828.2	826.3	825.3
42.5°	474.2	630.8	780.6	785.5	781.6	786.5	788.6	792.5	789.6	785.5	785.5
45°	434.4	613.0	743.0	748.9	743.0	750.8	753.8	753.8	744.9	743.0	742.0
47.5°	421.5	577.3	705.3	705.3	702.2	712.2	717.1	710.2	701.2	698.3	698.3
50°	420.5	537.6	653.6	649.7	663.6	675.5	670.5	663.6	656.7	645.7	645.7
52.5°	381.9	489.0	587.2	602.1	623.9	630.8	623.0	616.0	604.0	599.1	595.1
55°	354.1	438.4	526.7	556.5	579.3	588.1	573.4	566.4	548.5	545.6	543.6
57.5°	348.2	365.0	471.1	508.9	536.6	535.6	526.7	513.8	498.9	496.0	495.0
60°	319.4	263.9	411.7	456.3	485.0	482.1	474.2	462.2	448.3	446.4	444.4
62.5°	289.6	191.5	344.2	394.8	435.4	434.4	427.5	409.7	399.7	394.8	390.9
65°	246.0	160.7	245.0	328.3	386.8	388.8	374.0	361.1	350.1	344.2	343.2
67.5°	187.4	130.9	165.6	273.8	340.3	338.2	319.4	313.4	299.5	296.6	290.7
70°	138.8	87.3	115.1	222.1	294.6	289.6	274.8	267.8	254.9	248.0	244.0
72.5°	115.1	70.4	84.3	172.6	248.0	242.1	229.1	221.2	210.3	204.3	200.4
75°	93.3	74.3	64.5	128.0	201.3	197.4	185.5	177.6	168.6	160.7	161.7
77.5°	68.4	69.4	51.6	94.3	159.7	153.7	146.8	136.9	132.9	125.0	125.0
80°	51.6	54.5	38.7	64.5	115.1	115.1	109.2	102.1	95.2	91.3	91.3
82.5°	34.7	34.7	28.8	40.6	78.4	75.4	71.4	69.4	65.5	63.5	63.5
85°	15.9	19.8	17.8	24.7	42.7	44.7	44.7	42.7	41.7	39.6	40.6
87.5°	4.9	9.0	10.9	13.9	21.8	22.8	23.8	23.8	23.8	24.7	24.7
90°	4.5	8.2	11.9	12.8	20.1	29.9	34.8	31.0	23.3	17.5	17.5
92.5°	18.3	49.5	80.7	88.4	124.3	172.3	196.2	172.0	123.4	87.1	83.6
95°	44.0	101.1	158.1	172.4	306.1	484.4	573.6	511.8	388.3	295.7	285.2
97.5°	76.1	126.4	176.7	189.3	412.3	709.6	858.3	819.3	741.3	682.7	662.7
100°	100.9	146.5	192.2	203.6	451.0	780.9	945.9	948.7	954.4	958.7	934.9
102.5°	122.0	164.6	207.2	217.8	468.7	803.3	970.6	1020.3	1119.8	1194.3	1173.9
105°	157.8	193.8	229.9	238.9	481.9	805.9	967.9	1079.3	1302.2	1469.4	1458.5
107.5°	194.4	228.1	261.7	270.1	484.3	770.0	912.8	1068.3	1379.3	1612.5	1615.2
110°	219.2	249.6	279.8	287.4	480.6	738.2	867.0	1040.8	1388.5	1649.2	1660.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	243.4	272.3	301.3	308.5	480.8	710.4	825.3	1003.2	1358.9	1625.7	1643.3
115°	280.1	306.8	333.5	340.2	485.2	678.6	775.3	946.7	1289.4	1546.4	1570.7
117.5°	316.3	340.6	364.8	370.9	494.3	658.6	740.9	895.6	1204.9	1436.9	1463.8
120°	337.4	360.3	383.1	388.8	501.6	651.9	727.2	868.5	1151.1	1363.0	1389.3
122.5°	358.1	381.1	404.2	409.9	512.1	648.5	716.6	843.8	1098.3	1289.2	1315.0
125°	389.7	410.7	431.7	436.9	526.3	645.5	705.2	813.3	1029.5	1191.6	1215.3
127.5°	415.4	436.6	457.7	463.0	540.5	643.9	695.5	788.3	974.0	1113.2	1133.3
130°	429.1	452.0	474.8	480.5	551.0	644.9	691.9	774.5	939.8	1063.7	1082.2
132.5°	443.3	466.2	489.0	494.7	559.4	645.5	688.6	762.6	910.6	1021.5	1038.1
135°	464.4	485.2	506.0	511.2	568.5	644.9	683.1	745.0	869.0	961.8	976.1
137.5°	486.0	506.5	527.1	532.2	582.2	648.9	682.2	734.6	839.3	917.9	929.6
140°	503.8	522.8	541.8	546.5	590.7	649.6	679.0	724.2	814.7	882.6	893.5
142.5°	517.6	535.2	552.8	557.1	597.7	651.8	679.0	718.7	798.2	857.8	867.3
145°	538.8	554.0	569.2	573.1	606.9	651.9	674.4	707.0	771.9	820.6	827.7
147.5°	559.8	574.6	589.5	593.3	620.3	656.4	674.4	700.0	751.1	789.5	795.4
150°	573.6	587.0	600.5	603.8	627.4	658.7	674.4	696.0	739.2	771.6	776.5
152.5°	587.8	598.0	608.2	610.7	631.9	660.2	674.4	692.9	729.7	757.4	761.1
155°	608.9	616.3	623.9	625.8	642.0	663.6	674.4	689.1	718.5	740.5	742.9
157.5°	624.4	631.8	639.1	641.0	652.1	667.0	674.4	685.9	708.6	725.8	727.5
160°	635.0	640.7	646.4	647.8	656.7	668.5	674.4	684.2	703.7	718.4	719.4
162.5°	645.5	649.9	654.1	655.2	661.6	670.2	674.4	682.7	699.2	711.6	712.5
165°	657.0	660.9	664.8	665.7	668.6	672.5	674.4	680.3	692.2	701.0	702.0
167.5°	667.5	669.4	671.2	671.7	674.1	677.4	679.0	682.8	690.6	696.4	696.8
170°	674.4	676.3	678.1	678.6	678.7	678.9	679.0	682.8	690.6	696.4	696.4
172.5°	678.1	678.5	678.9	679.0	679.0	679.0	679.0	682.0	688.1	692.8	692.4
175°	683.1	683.1	683.1	683.1	681.7	679.8	679.0	680.9	684.8	687.7	687.7
177.5°	683.1	683.1	683.1	683.1	682.0	680.6	679.9	681.5	684.6	686.8	686.5
180°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1075.2	1072.3	1075.2	1073.3	1074.2	1071.3	1062.3	1059.4	1062.3	1065.3	1065.3
5°	1088.1	1086.1	1088.1	1088.1	1087.2	1085.1	1075.2	1073.3	1075.2	1076.2	1074.2
7.5°	1092.1	1089.1	1092.1	1090.1	1090.1	1088.1	1078.2	1076.2	1077.2	1080.2	1077.2
10°	1092.1	1089.1	1092.1	1091.1	1090.1	1088.1	1078.2	1074.2	1074.2	1077.2	1074.2
12.5°	1087.2	1085.1	1087.2	1085.1	1085.1	1083.1	1073.3	1069.2	1070.3	1071.3	1067.2
15°	1079.2	1076.2	1079.2	1077.2	1078.2	1075.2	1064.3	1060.3	1060.3	1062.3	1055.4
17.5°	1067.2	1063.3	1067.2	1066.3	1065.3	1063.3	1053.3	1049.4	1048.4	1049.4	1044.5
20°	1053.3	1050.4	1053.3	1052.4	1052.4	1048.4	1038.6	1033.5	1033.5	1033.5	1028.6
22.5°	1031.6	1028.6	1031.6	1033.5	1033.5	1032.5	1023.7	1016.7	1014.7	1014.7	1008.8
25°	1006.8	1003.8	1006.8	1006.8	1005.8	1006.8	1003.8	999.8	996.8	993.9	988.0
27.5°	982.9	981.0	982.9	981.0	982.9	980.0	979.0	978.0	974.1	971.1	963.1
30°	959.2	957.2	959.2	957.2	955.2	953.2	948.2	946.3	950.2	948.2	935.3
32.5°	929.4	927.4	929.4	929.4	927.4	927.4	919.4	916.5	917.5	923.5	911.6
35°	898.6	895.7	898.6	897.7	898.6	895.7	890.8	889.8	885.7	892.7	883.8
37.5°	862.9	860.0	862.9	862.9	862.9	864.9	861.0	858.0	852.0	861.0	854.0
40°	826.3	822.3	826.3	825.3	826.3	828.2	826.3	824.3	818.3	825.3	819.3
42.5°	784.6	783.6	784.6	785.5	785.5	789.6	792.5	788.6	786.5	781.6	785.5
45°	740.0	737.9	740.0	742.0	743.0	744.9	753.8	753.8	750.8	743.0	748.9
47.5°	692.4	687.3	692.4	698.3	698.3	701.2	710.2	717.1	712.2	702.2	705.3
50°	641.8	642.8	641.8	645.7	645.7	656.7	663.6	670.5	675.5	663.6	649.7
52.5°	592.2	591.2	592.2	595.1	599.1	604.0	616.0	623.0	630.8	623.9	602.1
55°	542.6	544.6	542.6	543.6	545.6	548.5	566.4	573.4	588.1	579.3	556.5
57.5°	493.0	490.0	493.0	495.0	496.0	498.9	513.8	526.7	535.6	536.6	508.9
60°	435.4	431.5	435.4	444.4	446.4	448.3	462.2	474.2	482.1	485.0	456.3
62.5°	384.8	377.9	384.8	390.9	394.8	399.7	409.7	427.5	434.4	435.4	394.8
65°	331.3	328.3	331.3	343.2	344.2	350.1	361.1	374.0	388.8	386.8	328.3
67.5°	282.7	282.7	282.7	290.7	296.6	299.5	313.4	319.4	338.2	340.3	273.8
70°	238.0	237.0	238.0	244.0	248.0	254.9	267.8	274.8	289.6	294.6	222.1
72.5°	195.4	194.4	195.4	200.4	204.3	210.3	221.2	229.1	242.1	248.0	172.6
75°	157.8	155.7	157.8	161.7	160.7	168.6	177.6	185.5	197.4	201.3	128.0
77.5°	121.0	121.0	121.0	125.0	125.0	132.9	136.9	146.8	153.7	159.7	94.3
80°	90.2	89.2	90.2	91.3	91.3	95.2	102.1	109.2	115.1	115.1	64.5
82.5°	63.5	61.5	63.5	63.5	63.5	65.5	69.4	71.4	75.4	78.4	40.6
85°	39.6	39.6	39.6	40.6	39.6	41.7	42.7	44.7	44.7	42.7	24.7
87.5°	25.8	24.7	25.8	24.7	24.7	23.8	23.8	23.8	22.8	21.8	13.9
90°	17.5	17.5	17.5	17.5	17.5	23.3	31.0	34.8	29.9	20.1	12.8
92.5°	69.7	55.9	69.7	83.6	87.1	123.4	172.0	196.2	172.3	124.3	88.4
95°	243.2	201.2	243.2	285.2	295.7	388.3	511.8	573.6	484.4	306.1	172.4
97.5°	582.8	503.0	582.8	662.7	682.7	741.3	819.3	858.3	709.6	412.3	189.3
100°	839.7	744.5	839.7	934.9	958.7	954.4	948.7	945.9	780.9	451.0	203.6
102.5°	1092.5	1010.9	1092.5	1173.9	1194.3	1119.8	1020.3	970.6	803.3	468.7	217.8
105°	1414.6	1370.8	1414.6	1458.5	1469.4	1302.2	1079.3	967.9	805.9	481.9	238.9
107.5°	1625.7	1636.3	1625.7	1615.2	1612.5	1379.3	1068.3	912.8	770.0	484.3	270.1
110°	1706.2	1751.8	1706.2	1660.6	1649.2	1388.5	1040.8	867.0	738.2	480.6	287.4



TEST NUMBER: P934688

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1713.4	1783.5	1713.4	1643.3	1625.7	1358.9	1003.2	825.3	710.4	480.8	308.5
115°	1667.9	1765.1	1667.9	1570.7	1546.4	1289.4	946.7	775.3	678.6	485.2	340.2
117.5°	1571.6	1679.4	1571.6	1463.8	1436.9	1204.9	895.6	740.9	658.6	494.3	370.9
120°	1494.0	1598.7	1494.0	1389.3	1363.0	1151.1	868.5	727.2	651.9	501.6	388.8
122.5°	1418.4	1521.7	1418.4	1315.0	1289.2	1098.3	843.8	716.6	648.5	512.1	409.9
125°	1310.6	1405.7	1310.6	1215.3	1191.6	1029.5	813.3	705.2	645.5	526.3	436.9
127.5°	1213.6	1293.8	1213.6	1133.3	1113.2	974.0	788.3	695.5	643.9	540.5	463.0
130°	1156.4	1230.5	1156.4	1082.2	1063.7	939.8	774.5	691.9	644.9	551.0	480.5
132.5°	1104.5	1171.0	1104.5	1038.1	1021.5	910.6	762.6	688.6	645.5	559.4	494.7
135°	1033.4	1090.7	1033.4	976.1	961.8	869.0	745.0	683.1	644.9	568.5	511.2
137.5°	976.4	1023.4	976.4	929.6	917.9	839.3	734.6	682.2	648.9	582.2	532.2
140°	937.4	981.2	937.4	893.5	882.6	814.7	724.2	679.0	649.6	590.7	546.5
142.5°	905.0	942.6	905.0	867.3	857.8	798.2	718.7	679.0	651.8	597.7	557.1
145°	856.3	884.8	856.3	827.7	820.6	771.9	707.0	674.4	651.9	606.9	573.1
147.5°	819.0	842.6	819.0	795.4	789.5	751.1	700.0	674.4	656.4	620.3	593.3
150°	795.6	814.7	795.6	776.5	771.6	739.2	696.0	674.4	658.7	627.4	603.8
152.5°	775.5	790.0	775.5	761.1	757.4	729.7	692.9	674.4	660.2	631.9	610.7
155°	752.4	762.0	752.4	742.9	740.5	718.5	689.1	674.4	663.6	642.0	625.8
157.5°	734.2	740.9	734.2	727.5	725.8	708.6	685.9	674.4	667.0	652.1	641.0
160°	723.2	727.2	723.2	719.4	718.4	703.7	684.2	674.4	668.5	656.7	647.8
162.5°	716.1	719.8	716.1	712.5	711.6	699.2	682.7	674.4	670.2	661.6	655.2
165°	705.9	709.7	705.9	702.0	701.0	692.2	680.3	674.4	672.5	668.6	665.7
167.5°	698.5	700.1	698.5	696.8	696.4	690.6	682.8	679.0	677.4	674.1	671.7
170°	696.4	696.4	696.4	696.4	696.4	690.6	682.8	679.0	678.9	678.7	678.6
172.5°	691.0	689.5	691.0	692.4	692.8	688.1	682.0	679.0	679.0	679.0	679.0
175°	687.7	687.7	687.7	687.7	687.7	684.8	680.9	679.0	679.8	681.7	683.1
177.5°	684.8	683.1	684.8	686.5	686.8	684.6	681.5	679.9	680.6	682.0	683.1
180°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1



TEST NUMBER: P934688

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1063.3	1057.4	1057.4	1047.4	1043.5	1040.5	1035.5	1020.7	1016.7	1012.7	1018.6
5°	1072.3	1061.3	1053.3	1035.5	1020.7	1014.7	995.9	960.2	936.3	918.5	908.6
7.5°	1074.2	1060.3	1045.5	1017.7	982.0	966.1	908.6	843.1	825.3	809.4	799.4
10°	1072.3	1056.4	1035.5	993.9	909.6	881.8	824.3	781.6	770.7	767.7	770.7
12.5°	1065.3	1050.4	1021.7	952.2	834.2	815.3	781.6	756.9	754.8	759.8	786.5
15°	1053.3	1039.5	1005.8	896.7	792.5	778.6	754.8	745.9	756.9	791.6	871.9
17.5°	1041.5	1025.6	983.9	842.1	760.8	750.8	734.0	751.8	813.4	860.0	886.7
20°	1025.6	1006.8	959.2	802.4	737.9	729.0	721.1	801.4	848.1	864.9	879.8
22.5°	1006.8	986.9	925.5	774.7	714.2	707.3	712.2	829.2	848.1	860.0	872.9
25°	982.0	965.1	885.7	752.8	695.3	687.3	706.3	826.3	837.1	840.2	865.9
27.5°	959.2	937.3	844.1	733.0	672.6	669.5	711.2	813.4	821.3	824.3	852.0
30°	931.4	898.6	797.5	712.2	648.7	647.7	712.2	797.5	795.5	803.4	831.2
32.5°	902.6	841.2	744.9	686.4	625.9	624.9	705.3	773.7	771.7	782.6	803.4
35°	875.9	796.5	673.5	656.7	597.1	598.1	688.3	745.9	746.9	756.9	769.7
37.5°	848.1	757.8	595.1	623.9	569.3	569.3	665.6	720.1	718.1	721.1	739.0
40°	815.3	697.3	525.7	581.2	543.6	540.6	637.7	692.4	685.4	684.4	709.2
42.5°	780.6	630.8	474.2	524.7	513.8	509.9	604.0	658.6	645.7	648.7	680.4
45°	743.0	613.0	434.4	443.4	483.0	480.1	567.3	619.9	611.0	618.9	651.6
47.5°	705.3	577.3	421.5	368.0	450.3	449.3	526.7	582.2	577.3	585.2	619.9
50°	653.6	537.6	420.5	315.4	413.6	417.6	478.1	545.6	545.6	552.5	589.2
52.5°	587.2	489.0	381.9	285.6	370.9	382.9	435.4	513.8	515.8	522.8	555.4
55°	526.7	438.4	354.1	262.9	320.4	346.2	393.8	481.1	485.0	492.0	521.7
57.5°	471.1	365.0	348.2	236.0	273.8	298.6	357.1	449.3	451.3	457.3	486.0
60°	411.7	263.9	319.4	207.3	233.1	251.9	323.3	411.7	418.6	422.5	447.3
62.5°	344.2	191.5	289.6	187.4	213.3	217.2	295.6	376.0	384.8	387.8	402.7
65°	245.0	160.7	246.0	170.6	192.5	193.5	265.8	339.2	347.2	352.1	363.0
67.5°	165.6	130.9	187.4	154.7	176.6	177.6	237.0	296.6	307.5	311.5	318.4
70°	115.1	87.3	138.8	137.8	158.7	160.7	206.3	257.9	267.8	270.8	274.8
72.5°	84.3	70.4	115.1	123.9	139.8	141.9	174.6	214.3	224.2	227.2	229.1
75°	64.5	74.3	93.3	108.2	119.0	120.0	142.9	174.6	181.5	183.5	184.5
77.5°	51.6	69.4	68.4	87.3	97.2	95.2	112.1	134.9	140.8	140.8	140.8
80°	38.7	54.5	51.6	62.5	71.4	69.4	80.4	96.2	98.2	100.2	99.2
82.5°	28.8	34.7	34.7	39.6	47.6	45.7	53.5	62.5	62.5	62.5	64.5
85°	17.8	19.8	15.9	20.8	26.8	25.8	29.8	33.7	34.7	34.7	32.7
87.5°	10.9	9.0	4.9	7.9	11.9	11.9	13.9	14.9	13.9	13.9	13.9
90°	11.9	8.2	4.5	8.2	11.9	12.8	20.1	29.9	34.8	31.0	23.3
92.5°	80.7	49.5	18.3	49.5	80.7	88.4	124.3	172.3	196.2	172.0	123.4
95°	158.1	101.1	44.0	101.1	158.1	172.4	306.1	484.4	573.6	511.8	388.3
97.5°	176.7	126.4	76.1	126.4	176.7	189.3	412.3	709.6	858.3	819.3	741.3
100°	192.2	146.5	100.9	146.5	192.2	203.6	451.0	780.9	945.9	948.7	954.4
102.5°	207.2	164.6	122.0	164.6	207.2	217.8	468.7	803.3	970.6	1020.3	1119.8
105°	229.9	193.8	157.8	193.8	229.9	238.9	481.9	805.9	967.9	1079.3	1302.2
107.5°	261.7	228.1	194.4	228.1	261.7	270.1	484.3	770.0	912.8	1068.3	1379.3
110°	279.8	249.6	219.2	249.6	279.8	287.4	480.6	738.2	867.0	1040.8	1388.5



TEST NUMBER: P934688

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	301.3	272.3	243.4	272.3	301.3	308.5	480.8	710.4	825.3	1003.2	1358.9
115°	333.5	306.8	280.1	306.8	333.5	340.2	485.2	678.6	775.3	946.7	1289.4
117.5°	364.8	340.6	316.3	340.6	364.8	370.9	494.3	658.6	740.9	895.6	1204.9
120°	383.1	360.3	337.4	360.3	383.1	388.8	501.6	651.9	727.2	868.5	1151.1
122.5°	404.2	381.1	358.1	381.1	404.2	409.9	512.1	648.5	716.6	843.8	1098.3
125°	431.7	410.7	389.7	410.7	431.7	436.9	526.3	645.5	705.2	813.3	1029.5
127.5°	457.7	436.6	415.4	436.6	457.7	463.0	540.5	643.9	695.5	788.3	974.0
130°	474.8	452.0	429.1	452.0	474.8	480.5	551.0	644.9	691.9	774.5	939.8
132.5°	489.0	466.2	443.3	466.2	489.0	494.7	559.4	645.5	688.6	762.6	910.6
135°	506.0	485.2	464.4	485.2	506.0	511.2	568.5	644.9	683.1	745.0	869.0
137.5°	527.1	506.5	486.0	506.5	527.1	532.2	582.2	648.9	682.2	734.6	839.3
140°	541.8	522.8	503.8	522.8	541.8	546.5	590.7	649.6	679.0	724.2	814.7
142.5°	552.8	535.2	517.6	535.2	552.8	557.1	597.7	651.8	679.0	718.7	798.2
145°	569.2	554.0	538.8	554.0	569.2	573.1	606.9	651.9	674.4	707.0	771.9
147.5°	589.5	574.6	559.8	574.6	589.5	593.3	620.3	656.4	674.4	700.0	751.1
150°	600.5	587.0	573.6	587.0	600.5	603.8	627.4	658.7	674.4	696.0	739.2
152.5°	608.2	598.0	587.8	598.0	608.2	610.7	631.9	660.2	674.4	692.9	729.7
155°	623.9	616.3	608.9	616.3	623.9	625.8	642.0	663.6	674.4	689.1	718.5
157.5°	639.1	631.8	624.4	631.8	639.1	641.0	652.1	667.0	674.4	685.9	708.6
160°	646.4	640.7	635.0	640.7	646.4	647.8	656.7	668.5	674.4	684.2	703.7
162.5°	654.1	649.9	645.5	649.9	654.1	655.2	661.6	670.2	674.4	682.7	699.2
165°	664.8	660.9	657.0	660.9	664.8	665.7	668.6	672.5	674.4	680.3	692.2
167.5°	671.2	669.4	667.5	669.4	671.2	671.7	674.1	677.4	679.0	682.8	690.6
170°	678.1	676.3	674.4	676.3	678.1	678.6	678.7	678.9	679.0	682.8	690.6
172.5°	678.9	678.5	678.1	678.5	678.9	679.0	679.0	679.0	679.0	682.0	688.1
175°	683.1	683.1	683.1	683.1	683.1	683.1	681.7	679.8	679.0	680.9	684.8
177.5°	683.1	683.1	683.1	683.1	683.1	683.1	682.0	680.6	679.9	681.5	684.6
180°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1



TEST NUMBER: P934688

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1011.7	1008.8	1012.7	1001.8	1012.7	1008.8	1011.7	1018.6	1012.7	1016.7	1020.7
5°	887.8	882.8	866.9	854.0	866.9	882.8	887.8	908.6	918.5	936.3	960.2
7.5°	793.5	789.6	785.5	777.7	785.5	789.6	793.5	799.4	809.4	825.3	843.1
10°	772.7	773.7	779.6	778.6	779.6	773.7	772.7	770.7	767.7	770.7	781.6
12.5°	826.3	835.1	867.9	865.9	867.9	835.1	826.3	786.5	759.8	754.8	756.9
15°	887.8	890.8	897.7	898.6	897.7	890.8	887.8	871.9	791.6	756.9	745.9
17.5°	893.7	894.7	899.6	899.6	899.6	894.7	893.7	886.7	860.0	813.4	751.8
20°	888.8	890.8	900.6	902.6	900.6	890.8	888.8	879.8	864.9	848.1	801.4
22.5°	886.7	890.8	898.6	897.7	898.6	890.8	886.7	872.9	860.0	848.1	829.2
25°	876.8	876.8	877.8	878.8	877.8	876.8	876.8	865.9	840.2	837.1	826.3
27.5°	856.0	858.0	863.9	862.9	863.9	858.0	856.0	852.0	824.3	821.3	813.4
30°	837.1	835.1	830.2	826.3	830.2	835.1	837.1	831.2	803.4	795.5	797.5
32.5°	805.5	800.4	795.5	792.5	795.5	800.4	805.5	803.4	782.6	771.7	773.7
35°	767.7	768.7	767.7	764.7	767.7	768.7	767.7	769.7	756.9	746.9	745.9
37.5°	741.0	743.0	742.0	737.9	742.0	743.0	741.0	739.0	721.1	718.1	720.1
40°	713.2	714.2	713.2	710.2	713.2	714.2	713.2	709.2	684.4	685.4	692.4
42.5°	686.4	685.4	682.4	680.4	682.4	685.4	686.4	680.4	648.7	645.7	658.6
45°	655.7	656.7	650.7	647.7	650.7	656.7	655.7	651.6	618.9	611.0	619.9
47.5°	624.9	624.9	619.9	616.9	619.9	624.9	624.9	619.9	585.2	577.3	582.2
50°	592.2	591.2	584.2	583.2	584.2	591.2	592.2	589.2	552.5	545.6	545.6
52.5°	554.4	554.4	555.4	557.5	555.4	554.4	554.4	555.4	522.8	515.8	513.8
55°	521.7	522.8	529.7	531.7	529.7	522.8	521.7	521.7	492.0	485.0	481.1
57.5°	488.0	488.0	493.0	493.0	493.0	488.0	488.0	486.0	457.3	451.3	449.3
60°	449.3	451.3	455.2	454.3	455.2	451.3	449.3	447.3	422.5	418.6	411.7
62.5°	408.7	410.7	411.7	409.7	411.7	410.7	408.7	402.7	387.8	384.8	376.0
65°	366.0	368.0	369.0	367.0	369.0	368.0	366.0	363.0	352.1	347.2	339.2
67.5°	322.3	321.3	320.4	324.4	320.4	321.3	322.3	318.4	311.5	307.5	296.6
70°	277.8	277.8	276.8	278.7	276.8	277.8	277.8	274.8	270.8	267.8	257.9
72.5°	230.1	229.1	233.1	230.1	233.1	229.1	230.1	229.1	227.2	224.2	214.3
75°	183.5	185.5	183.5	186.5	183.5	185.5	183.5	184.5	183.5	181.5	174.6
77.5°	139.8	141.9	139.8	139.8	139.8	141.9	139.8	140.8	140.8	140.8	134.9
80°	99.2	98.2	98.2	97.2	98.2	98.2	99.2	99.2	100.2	98.2	96.2
82.5°	63.5	62.5	62.5	64.5	62.5	62.5	63.5	64.5	62.5	62.5	62.5
85°	34.7	35.7	33.7	33.7	33.7	35.7	34.7	32.7	34.7	34.7	33.7
87.5°	12.9	11.9	11.9	11.9	11.9	11.9	12.9	13.9	13.9	13.9	14.9
90°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	23.3	31.0	34.8	29.9
92.5°	87.1	83.6	69.7	55.9	69.7	83.6	87.1	123.4	172.0	196.2	172.3
95°	295.7	285.2	243.2	201.2	243.2	285.2	295.7	388.3	511.8	573.6	484.4
97.5°	682.7	662.7	582.8	503.0	582.8	662.7	682.7	741.3	819.3	858.3	709.6
100°	958.7	934.9	839.7	744.5	839.7	934.9	958.7	954.4	948.7	945.9	780.9
102.5°	1194.3	1173.9	1092.5	1010.9	1092.5	1173.9	1194.3	1119.8	1020.3	970.6	803.3
105°	1469.4	1458.5	1414.6	1370.8	1414.6	1458.5	1469.4	1302.2	1079.3	967.9	805.9
107.5°	1612.5	1615.2	1625.7	1636.3	1625.7	1615.2	1612.5	1379.3	1068.3	912.8	770.0
110°	1649.2	1660.6	1706.2	1751.8	1706.2	1660.6	1649.2	1388.5	1040.8	867.0	738.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1625.7	1643.3	1713.4	1783.5	1713.4	1643.3	1625.7	1358.9	1003.2	825.3	710.4
115°	1546.4	1570.7	1667.9	1765.1	1667.9	1570.7	1546.4	1289.4	946.7	775.3	678.6
117.5°	1436.9	1463.8	1571.6	1679.4	1571.6	1463.8	1436.9	1204.9	895.6	740.9	658.6
120°	1363.0	1389.3	1494.0	1598.7	1494.0	1389.3	1363.0	1151.1	868.5	727.2	651.9
122.5°	1289.2	1315.0	1418.4	1521.7	1418.4	1315.0	1289.2	1098.3	843.8	716.6	648.5
125°	1191.6	1215.3	1310.6	1405.7	1310.6	1215.3	1191.6	1029.5	813.3	705.2	645.5
127.5°	1113.2	1133.3	1213.6	1293.8	1213.6	1133.3	1113.2	974.0	788.3	695.5	643.9
130°	1063.7	1082.2	1156.4	1230.5	1156.4	1082.2	1063.7	939.8	774.5	691.9	644.9
132.5°	1021.5	1038.1	1104.5	1171.0	1104.5	1038.1	1021.5	910.6	762.6	688.6	645.5
135°	961.8	976.1	1033.4	1090.7	1033.4	976.1	961.8	869.0	745.0	683.1	644.9
137.5°	917.9	929.6	976.4	1023.4	976.4	929.6	917.9	839.3	734.6	682.2	648.9
140°	882.6	893.5	937.4	981.2	937.4	893.5	882.6	814.7	724.2	679.0	649.6
142.5°	857.8	867.3	905.0	942.6	905.0	867.3	857.8	798.2	718.7	679.0	651.8
145°	820.6	827.7	856.3	884.8	856.3	827.7	820.6	771.9	707.0	674.4	651.9
147.5°	789.5	795.4	819.0	842.6	819.0	795.4	789.5	751.1	700.0	674.4	656.4
150°	771.6	776.5	795.6	814.7	795.6	776.5	771.6	739.2	696.0	674.4	658.7
152.5°	757.4	761.1	775.5	790.0	775.5	761.1	757.4	729.7	692.9	674.4	660.2
155°	740.5	742.9	752.4	762.0	752.4	742.9	740.5	718.5	689.1	674.4	663.6
157.5°	725.8	727.5	734.2	740.9	734.2	727.5	725.8	708.6	685.9	674.4	667.0
160°	718.4	719.4	723.2	727.2	723.2	719.4	718.4	703.7	684.2	674.4	668.5
162.5°	711.6	712.5	716.1	719.8	716.1	712.5	711.6	699.2	682.7	674.4	670.2
165°	701.0	702.0	705.9	709.7	705.9	702.0	701.0	692.2	680.3	674.4	672.5
167.5°	696.4	696.8	698.5	700.1	698.5	696.8	696.4	690.6	682.8	679.0	677.4
170°	696.4	696.4	696.4	696.4	696.4	696.4	696.4	690.6	682.8	679.0	678.9
172.5°	692.8	692.4	691.0	689.5	691.0	692.4	692.8	688.1	682.0	679.0	679.0
175°	687.7	687.7	687.7	687.7	687.7	687.7	687.7	684.8	680.9	679.0	679.8
177.5°	686.8	686.5	684.8	683.1	684.8	686.5	686.8	684.6	681.5	679.9	680.6
180°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1035.5	1040.5	1043.5	1047.4	1057.4
5°	995.9	1014.7	1020.7	1035.5	1053.3
7.5°	908.6	966.1	982.0	1017.7	1045.5
10°	824.3	881.8	909.6	993.9	1035.5
12.5°	781.6	815.3	834.2	952.2	1021.7
15°	754.8	778.6	792.5	896.7	1005.8
17.5°	734.0	750.8	760.8	842.1	983.9
20°	721.1	729.0	737.9	802.4	959.2
22.5°	712.2	707.3	714.2	774.7	925.5
25°	706.3	687.3	695.3	752.8	885.7
27.5°	711.2	669.5	672.6	733.0	844.1
30°	712.2	647.7	648.7	712.2	797.5
32.5°	705.3	624.9	625.9	686.4	744.9
35°	688.3	598.1	597.1	656.7	673.5
37.5°	665.6	569.3	569.3	623.9	595.1
40°	637.7	540.6	543.6	581.2	525.7
42.5°	604.0	509.9	513.8	524.7	474.2
45°	567.3	480.1	483.0	443.4	434.4
47.5°	526.7	449.3	450.3	368.0	421.5
50°	478.1	417.6	413.6	315.4	420.5
52.5°	435.4	382.9	370.9	285.6	381.9
55°	393.8	346.2	320.4	262.9	354.1
57.5°	357.1	298.6	273.8	236.0	348.2
60°	323.3	251.9	233.1	207.3	319.4
62.5°	295.6	217.2	213.3	187.4	289.6
65°	265.8	193.5	192.5	170.6	246.0
67.5°	237.0	177.6	176.6	154.7	187.4
70°	206.3	160.7	158.7	137.8	138.8
72.5°	174.6	141.9	139.8	123.9	115.1
75°	142.9	120.0	119.0	108.2	93.3
77.5°	112.1	95.2	97.2	87.3	68.4
80°	80.4	69.4	71.4	62.5	51.6
82.5°	53.5	45.7	47.6	39.6	34.7
85°	29.8	25.8	26.8	20.8	15.9
87.5°	13.9	11.9	11.9	7.9	4.9
90°	20.1	12.8	11.9	8.2	4.5
92.5°	124.3	88.4	80.7	49.5	18.3
95°	306.1	172.4	158.1	101.1	44.0
97.5°	412.3	189.3	176.7	126.4	76.1
100°	451.0	203.6	192.2	146.5	100.9
102.5°	468.7	217.8	207.2	164.6	122.0
105°	481.9	238.9	229.9	193.8	157.8
107.5°	484.3	270.1	261.7	228.1	194.4
110°	480.6	287.4	279.8	249.6	219.2



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CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	480.8	308.5	301.3	272.3	243.4
115°	485.2	340.2	333.5	306.8	280.1
117.5°	494.3	370.9	364.8	340.6	316.3
120°	501.6	388.8	383.1	360.3	337.4
122.5°	512.1	409.9	404.2	381.1	358.1
125°	526.3	436.9	431.7	410.7	389.7
127.5°	540.5	463.0	457.7	436.6	415.4
130°	551.0	480.5	474.8	452.0	429.1
132.5°	559.4	494.7	489.0	466.2	443.3
135°	568.5	511.2	506.0	485.2	464.4
137.5°	582.2	532.2	527.1	506.5	486.0
140°	590.7	546.5	541.8	522.8	503.8
142.5°	597.7	557.1	552.8	535.2	517.6
145°	606.9	573.1	569.2	554.0	538.8
147.5°	620.3	593.3	589.5	574.6	559.8
150°	627.4	603.8	600.5	587.0	573.6
152.5°	631.9	610.7	608.2	598.0	587.8
155°	642.0	625.8	623.9	616.3	608.9
157.5°	652.1	641.0	639.1	631.8	624.4
160°	656.7	647.8	646.4	640.7	635.0
162.5°	661.6	655.2	654.1	649.9	645.5
165°	668.6	665.7	664.8	660.9	657.0
167.5°	674.1	671.7	671.2	669.4	667.5
170°	678.7	678.6	678.1	676.3	674.4
172.5°	679.0	679.0	678.9	678.5	678.1
175°	681.7	683.1	683.1	683.1	683.1
177.5°	682.0	683.1	683.1	683.1	683.1
180°	683.1	683.1	683.1	683.1	683.1



TEST NUMBER: P934688
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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	10.08	10.85	11.14	11.90	13.33	12.91	13.67	13.96	14.73	16.16
	3H	10.55	11.23	11.61	12.30	13.75	14.24	14.93	15.31	15.99	17.44
	4H	10.74	11.39	11.81	12.45	13.91	14.68	15.33	15.76	16.40	17.85
	6H	10.85	11.45	11.94	12.52	13.99	14.96	15.56	16.04	16.63	18.10
	8H	10.85	11.42	11.94	12.50	13.97	15.03	15.60	16.12	16.69	18.15
	12H	10.82	11.36	11.91	12.44	13.93	15.06	15.60	16.16	16.68	18.17
4H	2H	11.10	11.75	12.18	12.82	14.27	13.30	13.95	14.39	15.02	16.48
	3H	12.12	12.66	13.21	13.75	15.22	14.80	15.34	15.89	16.43	17.90
	4H	12.39	12.89	13.48	13.97	15.46	15.32	15.82	16.42	16.90	18.39
	6H	12.51	12.94	13.61	14.04	15.53	15.68	16.10	16.78	17.21	18.70
	8H	12.51	12.91	13.62	14.01	15.51	15.78	16.18	16.89	17.28	18.78
	12H	12.48	12.84	13.60	13.95	15.45	15.83	16.19	16.95	17.31	18.81
8H	4H	12.84	13.23	13.94	14.33	15.83	15.44	15.84	16.54	16.94	18.44
	6H	13.09	13.42	14.22	14.56	16.06	15.87	16.20	16.99	17.34	18.84
	8H	13.13	13.42	14.27	14.55	16.06	16.02	16.31	17.15	17.43	18.95
	12H	13.11	13.37	14.25	14.49	16.04	16.11	16.36	17.25	17.48	19.04
12H	4H	12.84	13.20	13.96	14.31	15.82	15.40	15.76	16.52	16.87	18.38
	6H	13.15	13.44	14.28	14.56	16.08	15.87	16.15	17.00	17.28	18.79
	8H	13.21	13.47	14.35	14.59	16.14	16.02	16.27	17.16	17.39	18.95