

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: P934288

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934288
REPORT IS A COMBINATION OF REPORTS P933691 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-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: -

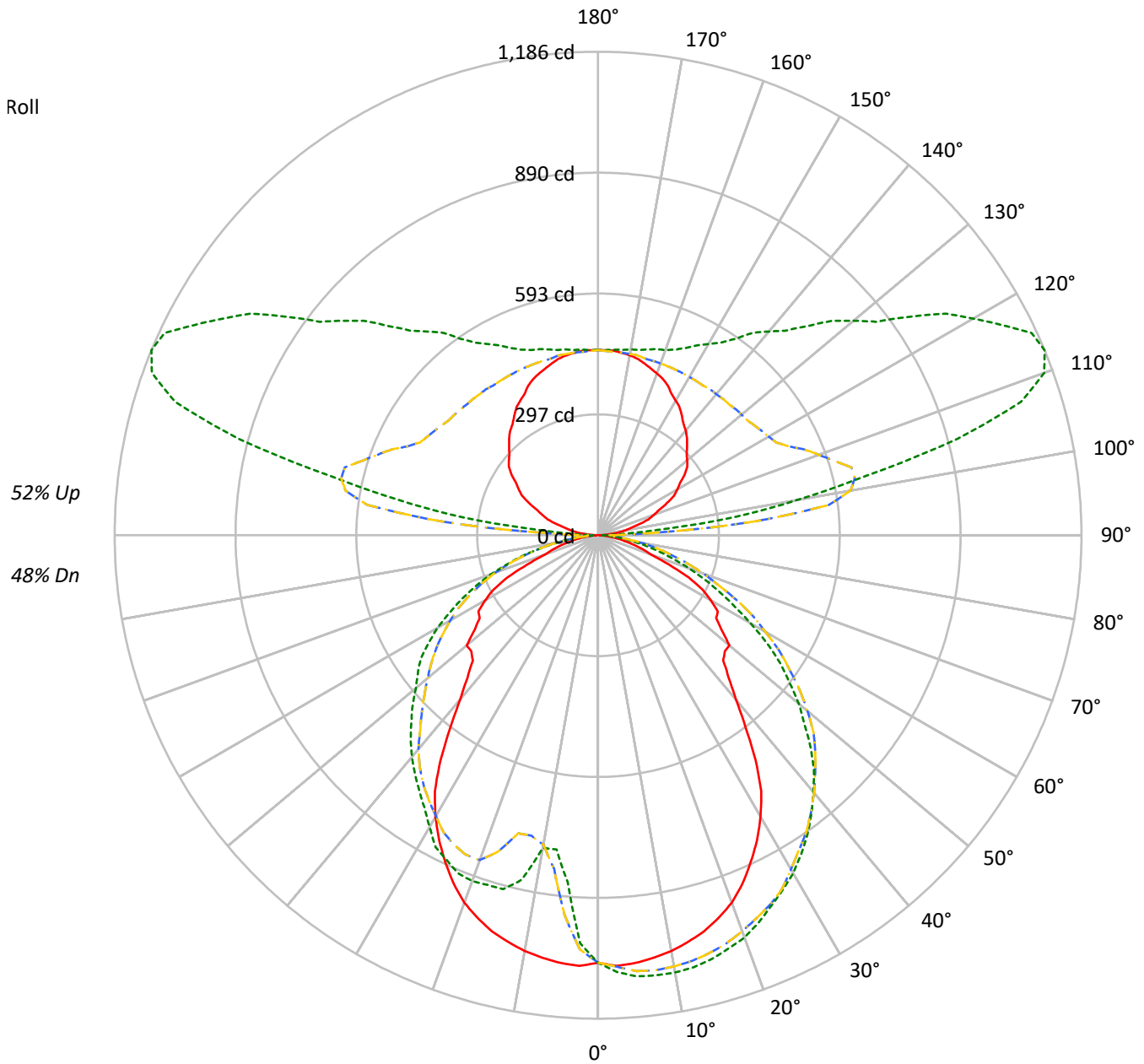
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5664.6 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 42.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12

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	1.7
10°-20°	268.7	4.7
20°-30°	415.4	7.3
30°-40°	495.9	8.8
40°-50°	498.8	8.8
50°-60°	434.0	7.7
60°-70°	307.7	5.4
70°-80°	162.8	2.9
80°-90°	42.3	0.7
90°-100°	221.4	3.9
100°-110°	582.1	10.3
110°-120°	603.6	10.7
120°-130°	484.1	8.5
130°-140°	379.9	6.7
140°-150°	291.6	5.1
150°-160°	210.0	3.7
160°-170°	128.5	2.3
170°-180°	43.4	0.8
0°-30°	778.7	13.7
0°-40°	1274.6	22.5
0°-60°	2207.3	39.0
0°-90°	2720.1	48.0
90°-120°	1407.0	24.8
90°-150°	2562.6	45.2
90°-180°	2944.0	52.0
0°-180°	5664.6	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°	3	12	3	12	3	3
95°	29	134	29	134	29	32
105°	105	912	105	912	105	111
115°	186	1174	186	1174	186	184
125°	259	935	259	935	259	230
135°	309	725	309	725	309	239
145°	358	588	358	588	358	224
155°	405	507	405	507	405	186
165°	437	472	437	472	437	123
175°	454	457	454	457	454	43
180°	454	454	454	454	454	



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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°	3.1	5.5	8.0	8.6	13.4	19.9	23.2	20.6	15.4	11.5	11.5
92.5°	12.2	32.9	53.6	58.9	82.7	114.6	130.4	114.3	82.0	57.9	55.6
95°	29.3	67.1	105.1	114.6	203.5	322.1	381.4	340.4	258.2	196.6	189.6
97.5°	50.6	84.1	117.5	125.9	274.2	471.9	570.7	544.8	492.8	453.9	440.5
100°	67.0	97.4	127.8	135.4	299.8	519.2	628.9	630.7	634.6	637.4	621.7
102.5°	81.0	109.4	137.7	144.8	311.7	534.1	645.3	678.4	744.5	794.1	780.6
105°	104.9	128.9	152.8	158.8	320.4	535.8	643.5	717.6	865.8	977.0	969.7
107.5°	129.3	151.6	173.9	179.6	322.0	511.9	606.9	710.2	917.0	1072.1	1073.9
110°	145.7	165.8	186.1	191.1	319.6	490.8	576.4	692.0	923.2	1096.5	1104.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	161.9	181.1	200.4	205.2	319.7	472.4	548.7	667.0	903.6	1081.0	1092.6
115°	186.3	204.0	221.8	226.2	322.6	451.2	515.5	629.5	857.3	1028.2	1044.4
117.5°	210.3	226.5	242.6	246.6	328.6	438.0	492.6	595.4	801.1	955.3	973.3
120°	224.3	239.5	254.7	258.5	333.5	433.4	483.4	577.4	765.3	906.2	923.7
122.5°	238.1	253.4	268.7	272.5	340.5	431.1	476.4	561.0	730.3	857.2	874.4
125°	259.1	273.0	287.0	290.5	349.9	429.2	468.8	540.7	684.5	792.3	808.0
127.5°	276.2	290.3	304.4	307.9	359.4	428.1	462.4	524.2	647.5	740.1	753.4
130°	285.3	300.5	315.7	319.5	366.3	428.7	460.0	514.9	624.8	707.3	719.6
132.5°	294.8	310.0	325.2	328.9	371.9	429.2	457.9	507.1	605.4	679.2	690.2
135°	308.8	322.6	336.4	339.9	378.0	428.8	454.3	495.5	577.8	639.5	649.1
137.5°	323.1	336.8	350.4	353.9	387.1	431.4	453.6	488.4	558.0	610.2	618.0
140°	335.0	347.7	360.2	363.3	392.7	431.9	451.5	481.6	541.7	586.8	594.1
142.5°	344.1	355.7	367.4	370.3	397.4	433.4	451.5	477.9	530.7	570.3	576.6
145°	358.2	368.4	378.5	381.1	403.6	433.4	448.4	470.0	513.2	545.7	550.4
147.5°	372.2	382.1	392.0	394.5	412.4	436.4	448.4	465.4	499.4	524.9	528.9
150°	381.4	390.4	399.2	401.5	417.2	438.0	448.4	462.8	491.5	513.0	516.2
152.5°	390.8	397.6	404.4	406.0	420.1	439.0	448.4	460.7	485.2	503.6	505.9
155°	404.9	409.9	414.8	416.1	426.8	441.2	448.4	458.2	477.7	492.3	493.9
157.5°	415.2	420.0	425.0	426.1	433.5	443.5	448.4	456.0	471.2	482.5	483.6
160°	422.2	426.0	429.7	430.7	436.6	444.5	448.4	454.9	468.0	477.7	478.3
162.5°	429.2	432.1	434.9	435.6	439.9	445.6	448.4	454.0	464.9	473.1	473.7
165°	436.8	439.4	441.9	442.6	444.6	447.2	448.4	452.4	460.2	466.1	466.8
167.5°	443.8	445.0	446.3	446.6	448.2	450.4	451.5	454.1	459.2	463.0	463.3
170°	448.4	449.6	450.9	451.2	451.3	451.4	451.5	454.1	459.2	463.0	463.0
172.5°	450.9	451.2	451.4	451.5	451.5	451.5	451.5	453.5	457.5	460.6	460.4
175°	454.3	454.3	454.3	454.3	453.4	452.1	451.5	452.8	455.3	457.2	457.2
177.5°	454.3	454.3	454.3	454.3	453.6	452.6	452.1	453.1	455.1	456.6	456.3
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



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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°	11.5	11.5	11.5	11.5	11.5	15.4	20.6	23.2	19.9	13.4	8.6
92.5°	46.3	37.2	46.3	55.6	57.9	82.0	114.3	130.4	114.6	82.7	58.9
95°	161.7	133.8	161.7	189.6	196.6	258.2	340.4	381.4	322.1	203.5	114.6
97.5°	387.5	334.5	387.5	440.5	453.9	492.8	544.8	570.7	471.9	274.2	125.9
100°	558.4	495.1	558.4	621.7	637.4	634.6	630.7	628.9	519.2	299.8	135.4
102.5°	726.4	672.2	726.4	780.6	794.1	744.5	678.4	645.3	534.1	311.7	144.8
105°	940.6	911.5	940.6	969.7	977.0	865.8	717.6	643.5	535.8	320.4	158.8
107.5°	1080.9	1088.0	1080.9	1073.9	1072.1	917.0	710.2	606.9	511.9	322.0	179.6
110°	1134.4	1164.8	1134.4	1104.1	1096.5	923.2	692.0	576.4	490.8	319.6	191.1



TEST NUMBER: P934288

CATALOG NUMBER: SQ4-FA-050U-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°	1139.2	1185.8	1139.2	1092.6	1081.0	903.6	667.0	548.7	472.4	319.7	205.2
115°	1109.0	1173.6	1109.0	1044.4	1028.2	857.3	629.5	515.5	451.2	322.6	226.2
117.5°	1045.0	1116.6	1045.0	973.3	955.3	801.1	595.4	492.6	438.0	328.6	246.6
120°	993.3	1063.0	993.3	923.7	906.2	765.3	577.4	483.4	433.4	333.5	258.5
122.5°	943.1	1011.7	943.1	874.4	857.2	730.3	561.0	476.4	431.1	340.5	272.5
125°	871.3	934.6	871.3	808.0	792.3	684.5	540.7	468.8	429.2	349.9	290.5
127.5°	806.8	860.3	806.8	753.4	740.1	647.5	524.2	462.4	428.1	359.4	307.9
130°	768.9	818.2	768.9	719.6	707.3	624.8	514.9	460.0	428.7	366.3	319.5
132.5°	734.4	778.5	734.4	690.2	679.2	605.4	507.1	457.9	429.2	371.9	328.9
135°	687.1	725.2	687.1	649.1	639.5	577.8	495.5	454.3	428.8	378.0	339.9
137.5°	649.3	680.4	649.3	618.0	610.2	558.0	488.4	453.6	431.4	387.1	353.9
140°	623.2	652.3	623.2	594.1	586.8	541.7	481.6	451.5	431.9	392.7	363.3
142.5°	601.7	626.7	601.7	576.6	570.3	530.7	477.9	451.5	433.4	397.4	370.3
145°	569.4	588.3	569.4	550.4	545.7	513.2	470.0	448.4	433.4	403.6	381.1
147.5°	544.6	560.2	544.6	528.9	524.9	499.4	465.4	448.4	436.4	412.4	394.5
150°	529.0	541.7	529.0	516.2	513.0	491.5	462.8	448.4	438.0	417.2	401.5
152.5°	515.6	525.2	515.6	505.9	503.6	485.2	460.7	448.4	439.0	420.1	406.0
155°	500.3	506.6	500.3	493.9	492.3	477.7	458.2	448.4	441.2	426.8	416.1
157.5°	488.2	492.6	488.2	483.6	482.5	471.2	456.0	448.4	443.5	433.5	426.1
160°	480.9	483.4	480.9	478.3	477.7	468.0	454.9	448.4	444.5	436.6	430.7
162.5°	476.1	478.6	476.1	473.7	473.1	464.9	454.0	448.4	445.6	439.9	435.6
165°	469.3	471.9	469.3	466.8	466.1	460.2	452.4	448.4	447.2	444.6	442.6
167.5°	464.4	465.5	464.4	463.3	463.0	459.2	454.1	451.5	450.4	448.2	446.6
170°	463.0	463.0	463.0	463.0	463.0	459.2	454.1	451.5	451.4	451.3	451.2
172.5°	459.4	458.5	459.4	460.4	460.6	457.5	453.5	451.5	451.5	451.5	451.5
175°	457.2	457.2	457.2	457.2	457.2	455.3	452.8	451.5	452.1	453.4	454.3
177.5°	455.3	454.3	455.3	456.3	456.6	455.1	453.1	452.1	452.6	453.6	454.3
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



TEST NUMBER: P934288

CATALOG NUMBER: SQ4-FA-050U-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°	8.0	5.5	3.1	5.5	8.0	8.6	13.4	19.9	23.2	20.6	15.4
92.5°	53.6	32.9	12.2	32.9	53.6	58.9	82.7	114.6	130.4	114.3	82.0
95°	105.1	67.1	29.3	67.1	105.1	114.6	203.5	322.1	381.4	340.4	258.2
97.5°	117.5	84.1	50.6	84.1	117.5	125.9	274.2	471.9	570.7	544.8	492.8
100°	127.8	97.4	67.0	97.4	127.8	135.4	299.8	519.2	628.9	630.7	634.6
102.5°	137.7	109.4	81.0	109.4	137.7	144.8	311.7	534.1	645.3	678.4	744.5
105°	152.8	128.9	104.9	128.9	152.8	158.8	320.4	535.8	643.5	717.6	865.8
107.5°	173.9	151.6	129.3	151.6	173.9	179.6	322.0	511.9	606.9	710.2	917.0
110°	186.1	165.8	145.7	165.8	186.1	191.1	319.6	490.8	576.4	692.0	923.2



TEST NUMBER: P934288

CATALOG NUMBER: SQ4-FA-050U-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°	200.4	181.1	161.9	181.1	200.4	205.2	319.7	472.4	548.7	667.0	903.6
115°	221.8	204.0	186.3	204.0	221.8	226.2	322.6	451.2	515.5	629.5	857.3
117.5°	242.6	226.5	210.3	226.5	242.6	246.6	328.6	438.0	492.6	595.4	801.1
120°	254.7	239.5	224.3	239.5	254.7	258.5	333.5	433.4	483.4	577.4	765.3
122.5°	268.7	253.4	238.1	253.4	268.7	272.5	340.5	431.1	476.4	561.0	730.3
125°	287.0	273.0	259.1	273.0	287.0	290.5	349.9	429.2	468.8	540.7	684.5
127.5°	304.4	290.3	276.2	290.3	304.4	307.9	359.4	428.1	462.4	524.2	647.5
130°	315.7	300.5	285.3	300.5	315.7	319.5	366.3	428.7	460.0	514.9	624.8
132.5°	325.2	310.0	294.8	310.0	325.2	328.9	371.9	429.2	457.9	507.1	605.4
135°	336.4	322.6	308.8	322.6	336.4	339.9	378.0	428.8	454.3	495.5	577.8
137.5°	350.4	336.8	323.1	336.8	350.4	353.9	387.1	431.4	453.6	488.4	558.0
140°	360.2	347.7	335.0	347.7	360.2	363.3	392.7	431.9	451.5	481.6	541.7
142.5°	367.4	355.7	344.1	355.7	367.4	370.3	397.4	433.4	451.5	477.9	530.7
145°	378.5	368.4	358.2	368.4	378.5	381.1	403.6	433.4	448.4	470.0	513.2
147.5°	392.0	382.1	372.2	382.1	392.0	394.5	412.4	436.4	448.4	465.4	499.4
150°	399.2	390.4	381.4	390.4	399.2	401.5	417.2	438.0	448.4	462.8	491.5
152.5°	404.4	397.6	390.8	397.6	404.4	406.0	420.1	439.0	448.4	460.7	485.2
155°	414.8	409.9	404.9	409.9	414.8	416.1	426.8	441.2	448.4	458.2	477.7
157.5°	425.0	420.0	415.2	420.0	425.0	426.1	433.5	443.5	448.4	456.0	471.2
160°	429.7	426.0	422.2	426.0	429.7	430.7	436.6	444.5	448.4	454.9	468.0
162.5°	434.9	432.1	429.2	432.1	434.9	435.6	439.9	445.6	448.4	454.0	464.9
165°	441.9	439.4	436.8	439.4	441.9	442.6	444.6	447.2	448.4	452.4	460.2
167.5°	446.3	445.0	443.8	445.0	446.3	446.6	448.2	450.4	451.5	454.1	459.2
170°	450.9	449.6	448.4	449.6	450.9	451.2	451.3	451.4	451.5	454.1	459.2
172.5°	451.4	451.2	450.9	451.2	451.4	451.5	451.5	451.5	451.5	453.5	457.5
175°	454.3	454.3	454.3	454.3	454.3	454.3	453.4	452.1	451.5	452.8	455.3
177.5°	454.3	454.3	454.3	454.3	454.3	454.3	453.6	452.6	452.1	453.1	455.1
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



TEST NUMBER: P934288

CATALOG NUMBER: SQ4-FA-050U-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°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	15.4	20.6	23.2	19.9
92.5°	57.9	55.6	46.3	37.2	46.3	55.6	57.9	82.0	114.3	130.4	114.6
95°	196.6	189.6	161.7	133.8	161.7	189.6	196.6	258.2	340.4	381.4	322.1
97.5°	453.9	440.5	387.5	334.5	387.5	440.5	453.9	492.8	544.8	570.7	471.9
100°	637.4	621.7	558.4	495.1	558.4	621.7	637.4	634.6	630.7	628.9	519.2
102.5°	794.1	780.6	726.4	672.2	726.4	780.6	794.1	744.5	678.4	645.3	534.1
105°	977.0	969.7	940.6	911.5	940.6	969.7	977.0	865.8	717.6	643.5	535.8
107.5°	1072.1	1073.9	1080.9	1088.0	1080.9	1073.9	1072.1	917.0	710.2	606.9	511.9
110°	1096.5	1104.1	1134.4	1164.8	1134.4	1104.1	1096.5	923.2	692.0	576.4	490.8



TEST NUMBER: P934288

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

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1081.0	1092.6	1139.2	1185.8	1139.2	1092.6	1081.0	903.6	667.0	548.7	472.4
115°	1028.2	1044.4	1109.0	1173.6	1109.0	1044.4	1028.2	857.3	629.5	515.5	451.2
117.5°	955.3	973.3	1045.0	1116.6	1045.0	973.3	955.3	801.1	595.4	492.6	438.0
120°	906.2	923.7	993.3	1063.0	993.3	923.7	906.2	765.3	577.4	483.4	433.4
122.5°	857.2	874.4	943.1	1011.7	943.1	874.4	857.2	730.3	561.0	476.4	431.1
125°	792.3	808.0	871.3	934.6	871.3	808.0	792.3	684.5	540.7	468.8	429.2
127.5°	740.1	753.4	806.8	860.3	806.8	753.4	740.1	647.5	524.2	462.4	428.1
130°	707.3	719.6	768.9	818.2	768.9	719.6	707.3	624.8	514.9	460.0	428.7
132.5°	679.2	690.2	734.4	778.5	734.4	690.2	679.2	605.4	507.1	457.9	429.2
135°	639.5	649.1	687.1	725.2	687.1	649.1	639.5	577.8	495.5	454.3	428.8
137.5°	610.2	618.0	649.3	680.4	649.3	618.0	610.2	558.0	488.4	453.6	431.4
140°	586.8	594.1	623.2	652.3	623.2	594.1	586.8	541.7	481.6	451.5	431.9
142.5°	570.3	576.6	601.7	626.7	601.7	576.6	570.3	530.7	477.9	451.5	433.4
145°	545.7	550.4	569.4	588.3	569.4	550.4	545.7	513.2	470.0	448.4	433.4
147.5°	524.9	528.9	544.6	560.2	544.6	528.9	524.9	499.4	465.4	448.4	436.4
150°	513.0	516.2	529.0	541.7	529.0	516.2	513.0	491.5	462.8	448.4	438.0
152.5°	503.6	505.9	515.6	525.2	515.6	505.9	503.6	485.2	460.7	448.4	439.0
155°	492.3	493.9	500.3	506.6	500.3	493.9	492.3	477.7	458.2	448.4	441.2
157.5°	482.5	483.6	488.2	492.6	488.2	483.6	482.5	471.2	456.0	448.4	443.5
160°	477.7	478.3	480.9	483.4	480.9	478.3	477.7	468.0	454.9	448.4	444.5
162.5°	473.1	473.7	476.1	478.6	476.1	473.7	473.1	464.9	454.0	448.4	445.6
165°	466.1	466.8	469.3	471.9	469.3	466.8	466.1	460.2	452.4	448.4	447.2
167.5°	463.0	463.3	464.4	465.5	464.4	463.3	463.0	459.2	454.1	451.5	450.4
170°	463.0	463.0	463.0	463.0	463.0	463.0	463.0	459.2	454.1	451.5	451.4
172.5°	460.6	460.4	459.4	458.5	459.4	460.4	460.6	457.5	453.5	451.5	451.5
175°	457.2	457.2	457.2	457.2	457.2	457.2	457.2	455.3	452.8	451.5	452.1
177.5°	456.6	456.3	455.3	454.3	455.3	456.3	456.6	455.1	453.1	452.1	452.6
180°	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3	454.3



TEST NUMBER: P934288

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

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°	13.4	8.6	8.0	5.5	3.1
92.5°	82.7	58.9	53.6	32.9	12.2
95°	203.5	114.6	105.1	67.1	29.3
97.5°	274.2	125.9	117.5	84.1	50.6
100°	299.8	135.4	127.8	97.4	67.0
102.5°	311.7	144.8	137.7	109.4	81.0
105°	320.4	158.8	152.8	128.9	104.9
107.5°	322.0	179.6	173.9	151.6	129.3
110°	319.6	191.1	186.1	165.8	145.7



TEST NUMBER: P934288

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

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	319.7	205.2	200.4	181.1	161.9
115°	322.6	226.2	221.8	204.0	186.3
117.5°	328.6	246.6	242.6	226.5	210.3
120°	333.5	258.5	254.7	239.5	224.3
122.5°	340.5	272.5	268.7	253.4	238.1
125°	349.9	290.5	287.0	273.0	259.1
127.5°	359.4	307.9	304.4	290.3	276.2
130°	366.3	319.5	315.7	300.5	285.3
132.5°	371.9	328.9	325.2	310.0	294.8
135°	378.0	339.9	336.4	322.6	308.8
137.5°	387.1	353.9	350.4	336.8	323.1
140°	392.7	363.3	360.2	347.7	335.0
142.5°	397.4	370.3	367.4	355.7	344.1
145°	403.6	381.1	378.5	368.4	358.2
147.5°	412.4	394.5	392.0	382.1	372.2
150°	417.2	401.5	399.2	390.4	381.4
152.5°	420.1	406.0	404.4	397.6	390.8
155°	426.8	416.1	414.8	409.9	404.9
157.5°	433.5	426.1	425.0	420.0	415.2
160°	436.6	430.7	429.7	426.0	422.2
162.5°	439.9	435.6	434.9	432.1	429.2
165°	444.6	442.6	441.9	439.4	436.8
167.5°	448.2	446.6	446.3	445.0	443.8
170°	451.3	451.2	450.9	449.6	448.4
172.5°	451.5	451.5	451.4	451.2	450.9
175°	453.4	454.3	454.3	454.3	454.3
177.5°	453.6	454.3	454.3	454.3	454.3
180°	454.3	454.3	454.3	454.3	454.3



TEST NUMBER: P934288
 CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-6-3000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.11	11.96	12.09	12.94	14.24	13.94	14.78	14.91	15.77	17.07
	3H	11.59	12.34	12.57	13.34	14.66	15.28	16.04	16.26	17.03	18.35
	4H	11.78	12.49	12.78	13.49	14.82	15.72	16.44	16.72	17.44	18.77
	6H	11.90	12.56	12.91	13.56	14.90	16.00	16.66	17.01	17.67	19.01
	8H	11.90	12.52	12.91	13.55	14.88	16.08	16.70	17.09	17.73	19.06
	12H	11.87	12.46	12.89	13.48	14.84	16.11	16.71	17.13	17.73	19.09
4H	2H	12.14	12.86	13.15	13.86	15.19	14.34	15.06	15.35	16.06	17.39
	3H	13.17	13.76	14.18	14.79	16.13	15.85	16.44	16.86	17.47	18.82
	4H	13.44	13.99	14.46	15.01	16.38	16.37	16.92	17.39	17.94	19.31
	6H	13.57	14.04	14.60	15.08	16.44	16.74	17.20	17.77	18.25	19.61
	8H	13.57	14.01	14.60	15.05	16.42	16.84	17.28	17.87	18.32	19.69
	12H	13.54	13.93	14.59	14.99	16.37	16.90	17.29	17.95	18.34	19.73
8H	4H	13.89	14.33	14.93	15.37	16.75	16.50	16.93	17.53	17.97	19.35
	6H	14.15	14.52	15.21	15.60	16.97	16.93	17.29	17.99	18.37	19.75
	8H	14.20	14.52	15.26	15.58	16.97	17.08	17.40	18.15	18.46	19.86
	12H	14.18	14.46	15.25	15.52	16.96	17.18	17.46	18.25	18.52	19.95
12H	4H	13.90	14.29	14.95	15.35	16.73	16.46	16.86	17.51	17.91	19.29
	6H	14.21	14.53	15.28	15.60	16.99	16.93	17.25	17.99	18.31	19.70
	8H	14.28	14.56	15.35	15.62	17.06	17.09	17.37	18.16	18.43	19.86