

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: P933888

Luminaire Tested: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933888
REPORT IS A COMBINATION OF REPORTS P933675 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

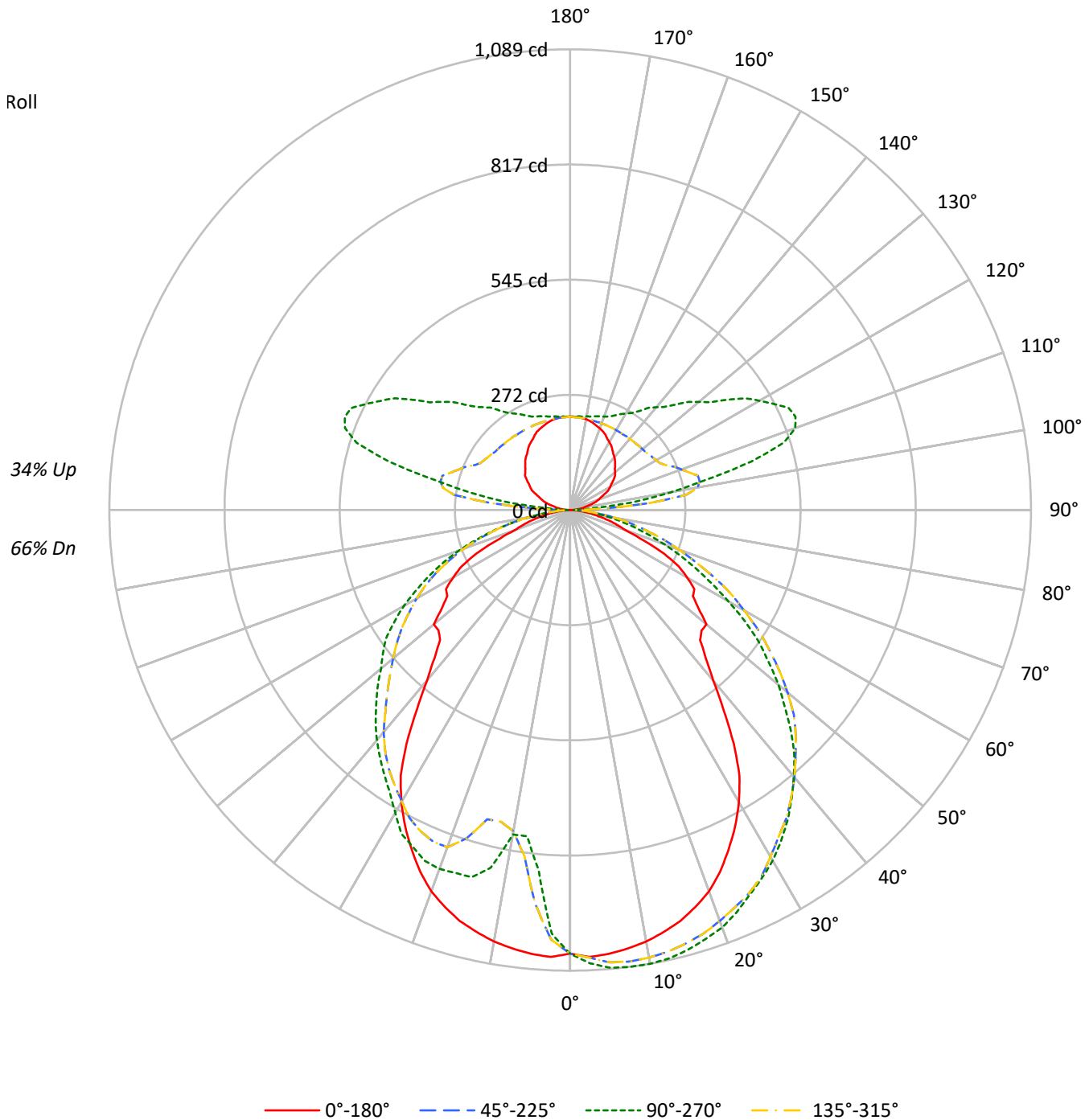
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4150.0 lumens
Efficiency: N/A
Efficacy: 125.8 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-Direct

Input Watts (W): 33
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: P933888
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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	50	30	10	0
RCR																					
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	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	2.3
10°-20°	268.7	6.5
20°-30°	415.4	10.0
30°-40°	495.9	11.9
40°-50°	498.8	12.0
50°-60°	434.0	10.5
60°-70°	307.7	7.4
70°-80°	162.8	3.9
80°-90°	41.4	1.0
90°-100°	107.6	2.6
100°-110°	282.9	6.8
110°-120°	293.3	7.1
120°-130°	235.3	5.7
130°-140°	184.6	4.4
140°-150°	141.7	3.4
150°-160°	102.0	2.5
160°-170°	62.4	1.5
170°-180°	21.1	0.5
0°-30°	778.7	18.8
0°-40°	1274.6	30.7
0°-60°	2207.3	53.2
0°-90°	2719.2	65.5
90°-120°	683.7	16.5
90°-150°	1245.2	30.0
90°-180°	1431.0	34.5
0°-180°	4150.0	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°	2	6	2	6	2	2
95°	14	65	14	65	14	16
105°	51	443	51	443	51	54
115°	90	570	90	570	90	89
125°	126	454	126	454	126	112
135°	150	352	150	352	150	116
145°	174	286	174	286	174	109
155°	197	246	197	246	197	90
165°	212	229	212	229	212	60
175°	221	222	221	222	221	21
180°	221	221	221	221	221	



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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°	1.5	2.7	3.8	4.1	6.5	9.7	11.2	10.0	7.5	5.6	5.6
92.5°	5.9	16.0	26.0	28.6	40.2	55.7	63.4	55.5	39.8	28.1	27.0
95°	14.2	32.6	51.1	55.7	98.9	156.5	185.3	165.4	125.4	95.5	92.2
97.5°	24.6	40.8	57.1	61.1	133.2	229.2	277.3	264.6	239.5	220.6	214.2
100°	32.6	47.3	62.1	65.8	145.7	252.3	305.6	306.4	308.3	309.7	302.0
102.5°	39.4	53.2	66.9	70.4	151.4	259.5	313.5	329.6	361.8	385.9	379.3
105°	51.0	62.6	74.2	77.2	155.7	260.3	312.7	348.6	420.7	474.8	471.2
107.5°	62.8	73.7	84.5	87.3	156.5	248.8	294.9	345.2	445.7	521.0	521.9
110°	70.8	80.7	90.4	92.9	155.3	238.5	280.1	336.3	448.6	532.8	536.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	78.7	88.0	97.3	99.7	155.3	229.5	266.6	324.1	439.1	525.2	530.9
115°	90.5	99.2	107.8	109.9	156.8	219.2	250.4	305.9	416.6	499.6	507.5
117.5°	102.2	110.0	117.8	119.8	159.6	212.8	239.4	289.4	389.3	464.2	472.9
120°	109.1	116.4	123.7	125.6	162.1	210.7	235.0	280.6	371.9	440.4	448.9
122.5°	115.7	123.2	130.5	132.4	165.5	209.5	231.5	272.6	354.9	416.6	425.0
125°	125.9	132.7	139.5	141.2	170.1	208.6	227.9	262.8	332.7	385.0	392.7
127.5°	134.2	141.0	147.9	149.6	174.6	208.0	224.7	254.7	314.7	359.7	366.2
130°	138.6	146.0	153.3	155.2	178.0	208.3	223.5	250.2	303.6	343.6	349.6
132.5°	143.3	150.7	158.0	159.8	180.7	208.6	222.5	246.4	294.2	330.0	335.3
135°	150.1	156.8	163.5	165.2	183.7	208.4	220.8	240.8	280.8	310.8	315.4
137.5°	157.1	163.7	170.3	172.0	188.1	209.7	220.5	237.4	271.2	296.6	300.3
140°	162.8	168.9	175.0	176.6	190.9	209.9	219.4	234.0	263.3	285.2	288.7
142.5°	167.2	172.8	178.6	179.9	193.1	210.6	219.4	232.2	257.9	277.2	280.2
145°	174.0	179.0	183.9	185.2	196.1	210.6	217.9	228.4	249.4	265.1	267.4
147.5°	180.8	185.7	190.5	191.7	200.5	212.1	217.9	226.2	242.7	255.1	257.0
150°	185.3	189.6	194.0	195.1	202.7	212.9	217.9	224.9	238.8	249.3	250.8
152.5°	189.9	193.2	196.5	197.3	204.2	213.4	217.9	223.8	235.8	244.7	245.9
155°	196.7	199.2	201.6	202.2	207.5	214.5	217.9	222.6	232.1	239.2	240.0
157.5°	201.7	204.1	206.5	207.1	210.7	215.5	217.9	221.6	228.9	234.5	235.1
160°	205.2	207.1	208.8	209.3	212.2	216.0	217.9	221.1	227.4	232.1	232.4
162.5°	208.5	209.9	211.3	211.7	213.8	216.5	217.9	220.6	225.9	229.9	230.2
165°	212.3	213.5	214.8	215.0	216.0	217.3	217.9	219.8	223.6	226.5	226.8
167.5°	215.6	216.2	216.8	217.0	217.8	218.9	219.4	220.7	223.1	225.0	225.1
170°	217.9	218.5	219.1	219.2	219.3	219.4	219.4	220.7	223.1	225.0	225.0
172.5°	219.1	219.2	219.4	219.4	219.4	219.4	219.4	220.4	222.3	223.8	223.7
175°	220.8	220.8	220.8	220.8	220.3	219.7	219.4	220.0	221.3	222.2	222.2
177.5°	220.8	220.8	220.8	220.8	220.4	219.9	219.7	220.2	221.2	221.9	221.8
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8



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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°	5.6	5.6	5.6	5.6	5.6	7.5	10.0	11.2	9.7	6.5	4.1
92.5°	22.5	18.0	22.5	27.0	28.1	39.8	55.5	63.4	55.7	40.2	28.6
95°	78.6	65.1	78.6	92.2	95.5	125.4	165.4	185.3	156.5	98.9	55.7
97.5°	188.3	162.5	188.3	214.2	220.6	239.5	264.6	277.3	229.2	133.2	61.1
100°	271.3	240.6	271.3	302.0	309.7	308.3	306.4	305.6	252.3	145.7	65.8
102.5°	353.0	326.7	353.0	379.3	385.9	361.8	329.6	313.5	259.5	151.4	70.4
105°	457.1	442.9	457.1	471.2	474.8	420.7	348.6	312.7	260.3	155.7	77.2
107.5°	525.2	528.7	525.2	521.9	521.0	445.7	345.2	294.9	248.8	156.5	87.3
110°	551.3	566.1	551.3	536.5	532.8	448.6	336.3	280.1	238.5	155.3	92.9



TEST NUMBER: P933888

CATALOG NUMBER: SQ4-FA-025U-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°	553.5	576.2	553.5	530.9	525.2	439.1	324.1	266.6	229.5	155.3	99.7
115°	538.8	570.3	538.8	507.5	499.6	416.6	305.9	250.4	219.2	156.8	109.9
117.5°	507.8	542.6	507.8	472.9	464.2	389.3	289.4	239.4	212.8	159.6	119.8
120°	482.7	516.6	482.7	448.9	440.4	371.9	280.6	235.0	210.7	162.1	125.6
122.5°	458.3	491.6	458.3	425.0	416.6	354.9	272.6	231.5	209.5	165.5	132.4
125°	423.4	454.2	423.4	392.7	385.0	332.7	262.8	227.9	208.6	170.1	141.2
127.5°	392.1	418.1	392.1	366.2	359.7	314.7	254.7	224.7	208.0	174.6	149.6
130°	373.6	397.6	373.6	349.6	343.6	303.6	250.2	223.5	208.3	178.0	155.2
132.5°	356.8	378.3	356.8	335.3	330.0	294.2	246.4	222.5	208.6	180.7	159.8
135°	333.9	352.4	333.9	315.4	310.8	280.8	240.8	220.8	208.4	183.7	165.2
137.5°	315.5	330.6	315.5	300.3	296.6	271.2	237.4	220.5	209.7	188.1	172.0
140°	302.8	317.0	302.8	288.7	285.2	263.3	234.0	219.4	209.9	190.9	176.6
142.5°	292.3	304.6	292.3	280.2	277.2	257.9	232.2	219.4	210.6	193.1	179.9
145°	276.7	285.9	276.7	267.4	265.1	249.4	228.4	217.9	210.6	196.1	185.2
147.5°	264.6	272.2	264.6	257.0	255.1	242.7	226.2	217.9	212.1	200.5	191.7
150°	257.1	263.3	257.1	250.8	249.3	238.8	224.9	217.9	212.9	202.7	195.1
152.5°	250.5	255.3	250.5	245.9	244.7	235.8	223.8	217.9	213.4	204.2	197.3
155°	243.0	246.2	243.0	240.0	239.2	232.1	222.6	217.9	214.5	207.5	202.2
157.5°	237.2	239.4	237.2	235.1	234.5	228.9	221.6	217.9	215.5	210.7	207.1
160°	233.7	235.0	233.7	232.4	232.1	227.4	221.1	217.9	216.0	212.2	209.3
162.5°	231.4	232.6	231.4	230.2	229.9	225.9	220.6	217.9	216.5	213.8	211.7
165°	228.1	229.3	228.1	226.8	226.5	223.6	219.8	217.9	217.3	216.0	215.0
167.5°	225.7	226.2	225.7	225.1	225.0	223.1	220.7	219.4	218.9	217.8	217.0
170°	225.0	225.0	225.0	225.0	225.0	223.1	220.7	219.4	219.4	219.3	219.2
172.5°	223.2	222.8	223.2	223.7	223.8	222.3	220.4	219.4	219.4	219.4	219.4
175°	222.2	222.2	222.2	222.2	222.2	221.3	220.0	219.4	219.7	220.3	220.8
177.5°	221.3	220.8	221.3	221.8	221.9	221.2	220.2	219.7	219.9	220.4	220.8
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8



TEST NUMBER: P933888

CATALOG NUMBER: SQ4-FA-025U-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°	3.8	2.7	1.5	2.7	3.8	4.1	6.5	9.7	11.2	10.0	7.5
92.5°	26.0	16.0	5.9	16.0	26.0	28.6	40.2	55.7	63.4	55.5	39.8
95°	51.1	32.6	14.2	32.6	51.1	55.7	98.9	156.5	185.3	165.4	125.4
97.5°	57.1	40.8	24.6	40.8	57.1	61.1	133.2	229.2	277.3	264.6	239.5
100°	62.1	47.3	32.6	47.3	62.1	65.8	145.7	252.3	305.6	306.4	308.3
102.5°	66.9	53.2	39.4	53.2	66.9	70.4	151.4	259.5	313.5	329.6	361.8
105°	74.2	62.6	51.0	62.6	74.2	77.2	155.7	260.3	312.7	348.6	420.7
107.5°	84.5	73.7	62.8	73.7	84.5	87.3	156.5	248.8	294.9	345.2	445.7
110°	90.4	80.7	70.8	80.7	90.4	92.9	155.3	238.5	280.1	336.3	448.6



TEST NUMBER: P933888

CATALOG NUMBER: SQ4-FA-025U-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°	97.3	88.0	78.7	88.0	97.3	99.7	155.3	229.5	266.6	324.1	439.1
115°	107.8	99.2	90.5	99.2	107.8	109.9	156.8	219.2	250.4	305.9	416.6
117.5°	117.8	110.0	102.2	110.0	117.8	119.8	159.6	212.8	239.4	289.4	389.3
120°	123.7	116.4	109.1	116.4	123.7	125.6	162.1	210.7	235.0	280.6	371.9
122.5°	130.5	123.2	115.7	123.2	130.5	132.4	165.5	209.5	231.5	272.6	354.9
125°	139.5	132.7	125.9	132.7	139.5	141.2	170.1	208.6	227.9	262.8	332.7
127.5°	147.9	141.0	134.2	141.0	147.9	149.6	174.6	208.0	224.7	254.7	314.7
130°	153.3	146.0	138.6	146.0	153.3	155.2	178.0	208.3	223.5	250.2	303.6
132.5°	158.0	150.7	143.3	150.7	158.0	159.8	180.7	208.6	222.5	246.4	294.2
135°	163.5	156.8	150.1	156.8	163.5	165.2	183.7	208.4	220.8	240.8	280.8
137.5°	170.3	163.7	157.1	163.7	170.3	172.0	188.1	209.7	220.5	237.4	271.2
140°	175.0	168.9	162.8	168.9	175.0	176.6	190.9	209.9	219.4	234.0	263.3
142.5°	178.6	172.8	167.2	172.8	178.6	179.9	193.1	210.6	219.4	232.2	257.9
145°	183.9	179.0	174.0	179.0	183.9	185.2	196.1	210.6	217.9	228.4	249.4
147.5°	190.5	185.7	180.8	185.7	190.5	191.7	200.5	212.1	217.9	226.2	242.7
150°	194.0	189.6	185.3	189.6	194.0	195.1	202.7	212.9	217.9	224.9	238.8
152.5°	196.5	193.2	189.9	193.2	196.5	197.3	204.2	213.4	217.9	223.8	235.8
155°	201.6	199.2	196.7	199.2	201.6	202.2	207.5	214.5	217.9	222.6	232.1
157.5°	206.5	204.1	201.7	204.1	206.5	207.1	210.7	215.5	217.9	221.6	228.9
160°	208.8	207.1	205.2	207.1	208.8	209.3	212.2	216.0	217.9	221.1	227.4
162.5°	211.3	209.9	208.5	209.9	211.3	211.7	213.8	216.5	217.9	220.6	225.9
165°	214.8	213.5	212.3	213.5	214.8	215.0	216.0	217.3	217.9	219.8	223.6
167.5°	216.8	216.2	215.6	216.2	216.8	217.0	217.8	218.9	219.4	220.7	223.1
170°	219.1	218.5	217.9	218.5	219.1	219.2	219.3	219.4	219.4	220.7	223.1
172.5°	219.4	219.2	219.1	219.2	219.4	219.4	219.4	219.4	219.4	220.4	222.3
175°	220.8	220.8	220.8	220.8	220.8	220.8	220.3	219.7	219.4	220.0	221.3
177.5°	220.8	220.8	220.8	220.8	220.8	220.8	220.4	219.9	219.7	220.2	221.2
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8



TEST NUMBER: P933888

CATALOG NUMBER: SQ4-FA-025U-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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.5	10.0	11.2	9.7
92.5°	28.1	27.0	22.5	18.0	22.5	27.0	28.1	39.8	55.5	63.4	55.7
95°	95.5	92.2	78.6	65.1	78.6	92.2	95.5	125.4	165.4	185.3	156.5
97.5°	220.6	214.2	188.3	162.5	188.3	214.2	220.6	239.5	264.6	277.3	229.2
100°	309.7	302.0	271.3	240.6	271.3	302.0	309.7	308.3	306.4	305.6	252.3
102.5°	385.9	379.3	353.0	326.7	353.0	379.3	385.9	361.8	329.6	313.5	259.5
105°	474.8	471.2	457.1	442.9	457.1	471.2	474.8	420.7	348.6	312.7	260.3
107.5°	521.0	521.9	525.2	528.7	525.2	521.9	521.0	445.7	345.2	294.9	248.8
110°	532.8	536.5	551.3	566.1	551.3	536.5	532.8	448.6	336.3	280.1	238.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	525.2	530.9	553.5	576.2	553.5	530.9	525.2	439.1	324.1	266.6	229.5
115°	499.6	507.5	538.8	570.3	538.8	507.5	499.6	416.6	305.9	250.4	219.2
117.5°	464.2	472.9	507.8	542.6	507.8	472.9	464.2	389.3	289.4	239.4	212.8
120°	440.4	448.9	482.7	516.6	482.7	448.9	440.4	371.9	280.6	235.0	210.7
122.5°	416.6	425.0	458.3	491.6	458.3	425.0	416.6	354.9	272.6	231.5	209.5
125°	385.0	392.7	423.4	454.2	423.4	392.7	385.0	332.7	262.8	227.9	208.6
127.5°	359.7	366.2	392.1	418.1	392.1	366.2	359.7	314.7	254.7	224.7	208.0
130°	343.6	349.6	373.6	397.6	373.6	349.6	343.6	303.6	250.2	223.5	208.3
132.5°	330.0	335.3	356.8	378.3	356.8	335.3	330.0	294.2	246.4	222.5	208.6
135°	310.8	315.4	333.9	352.4	333.9	315.4	310.8	280.8	240.8	220.8	208.4
137.5°	296.6	300.3	315.5	330.6	315.5	300.3	296.6	271.2	237.4	220.5	209.7
140°	285.2	288.7	302.8	317.0	302.8	288.7	285.2	263.3	234.0	219.4	209.9
142.5°	277.2	280.2	292.3	304.6	292.3	280.2	277.2	257.9	232.2	219.4	210.6
145°	265.1	267.4	276.7	285.9	276.7	267.4	265.1	249.4	228.4	217.9	210.6
147.5°	255.1	257.0	264.6	272.2	264.6	257.0	255.1	242.7	226.2	217.9	212.1
150°	249.3	250.8	257.1	263.3	257.1	250.8	249.3	238.8	224.9	217.9	212.9
152.5°	244.7	245.9	250.5	255.3	250.5	245.9	244.7	235.8	223.8	217.9	213.4
155°	239.2	240.0	243.0	246.2	243.0	240.0	239.2	232.1	222.6	217.9	214.5
157.5°	234.5	235.1	237.2	239.4	237.2	235.1	234.5	228.9	221.6	217.9	215.5
160°	232.1	232.4	233.7	235.0	233.7	232.4	232.1	227.4	221.1	217.9	216.0
162.5°	229.9	230.2	231.4	232.6	231.4	230.2	229.9	225.9	220.6	217.9	216.5
165°	226.5	226.8	228.1	229.3	228.1	226.8	226.5	223.6	219.8	217.9	217.3
167.5°	225.0	225.1	225.7	226.2	225.7	225.1	225.0	223.1	220.7	219.4	218.9
170°	225.0	225.0	225.0	225.0	225.0	225.0	225.0	223.1	220.7	219.4	219.4
172.5°	223.8	223.7	223.2	222.8	223.2	223.7	223.8	222.3	220.4	219.4	219.4
175°	222.2	222.2	222.2	222.2	222.2	222.2	222.2	221.3	220.0	219.4	219.7
177.5°	221.9	221.8	221.3	220.8	221.3	221.8	221.9	221.2	220.2	219.7	219.9
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8



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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°	6.5	4.1	3.8	2.7	1.5
92.5°	40.2	28.6	26.0	16.0	5.9
95°	98.9	55.7	51.1	32.6	14.2
97.5°	133.2	61.1	57.1	40.8	24.6
100°	145.7	65.8	62.1	47.3	32.6
102.5°	151.4	70.4	66.9	53.2	39.4
105°	155.7	77.2	74.2	62.6	51.0
107.5°	156.5	87.3	84.5	73.7	62.8
110°	155.3	92.9	90.4	80.7	70.8



TEST NUMBER: P933888

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	155.3	99.7	97.3	88.0	78.7
115°	156.8	109.9	107.8	99.2	90.5
117.5°	159.6	119.8	117.8	110.0	102.2
120°	162.1	125.6	123.7	116.4	109.1
122.5°	165.5	132.4	130.5	123.2	115.7
125°	170.1	141.2	139.5	132.7	125.9
127.5°	174.6	149.6	147.9	141.0	134.2
130°	178.0	155.2	153.3	146.0	138.6
132.5°	180.7	159.8	158.0	150.7	143.3
135°	183.7	165.2	163.5	156.8	150.1
137.5°	188.1	172.0	170.3	163.7	157.1
140°	190.9	176.6	175.0	168.9	162.8
142.5°	193.1	179.9	178.6	172.8	167.2
145°	196.1	185.2	183.9	179.0	174.0
147.5°	200.5	191.7	190.5	185.7	180.8
150°	202.7	195.1	194.0	189.6	185.3
152.5°	204.2	197.3	196.5	193.2	189.9
155°	207.5	202.2	201.6	199.2	196.7
157.5°	210.7	207.1	206.5	204.1	201.7
160°	212.2	209.3	208.8	207.1	205.2
162.5°	213.8	211.7	211.3	209.9	208.5
165°	216.0	215.0	214.8	213.5	212.3
167.5°	217.8	217.0	216.8	216.2	215.6
170°	219.3	219.2	219.1	218.5	217.9
172.5°	219.4	219.4	219.4	219.2	219.1
175°	220.3	220.8	220.8	220.8	220.8
177.5°	220.4	220.8	220.8	220.8	220.8
180°	220.8	220.8	220.8	220.8	220.8



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.62	13.64	13.43	14.47	15.50	15.44	16.46	16.26	17.30	18.33
	3H	13.11	14.02	13.93	14.87	15.93	16.80	17.72	17.62	18.56	19.62
	4H	13.31	14.17	14.15	15.02	16.09	17.25	18.12	18.09	18.97	20.04
	6H	13.43	14.23	14.29	15.09	16.17	17.54	18.34	18.40	19.20	20.28
	8H	13.44	14.20	14.30	15.08	16.16	17.62	18.38	18.48	19.26	20.34
	12H	13.42	14.14	14.28	15.01	16.12	17.66	18.39	18.53	19.26	20.37
4H	2H	13.67	14.53	14.52	15.39	16.46	15.87	16.74	16.72	17.59	18.66
	3H	14.71	15.43	15.57	16.32	17.40	17.39	18.11	18.25	19.00	20.08
	4H	15.00	15.65	15.87	16.53	17.64	17.93	18.58	18.80	19.46	20.58
	6H	15.13	15.70	16.01	16.60	17.72	18.30	18.87	19.18	19.77	20.89
	8H	15.14	15.67	16.03	16.57	17.70	18.41	18.94	19.30	19.84	20.97
	12H	15.11	15.59	16.02	16.51	17.64	18.47	18.95	19.38	19.87	21.00
8H	4H	15.46	15.99	16.35	16.89	18.02	18.06	18.59	18.95	19.49	20.62
	6H	15.73	16.17	16.64	17.11	18.24	18.50	18.94	19.42	19.88	21.01
	8H	15.77	16.16	16.70	17.09	18.24	18.66	19.05	19.58	19.98	21.12
	12H	15.76	16.11	16.69	17.03	18.23	18.76	19.10	19.69	20.03	21.23
12H	4H	15.47	15.95	16.38	16.87	18.00	18.04	18.51	18.94	19.43	20.57
	6H	15.79	16.18	16.72	17.11	18.26	18.50	18.89	19.43	19.83	20.97
	8H	15.86	16.21	16.79	17.13	18.33	18.67	19.01	19.60	19.94	21.14