

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: P934783

Luminaire Tested: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934783
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

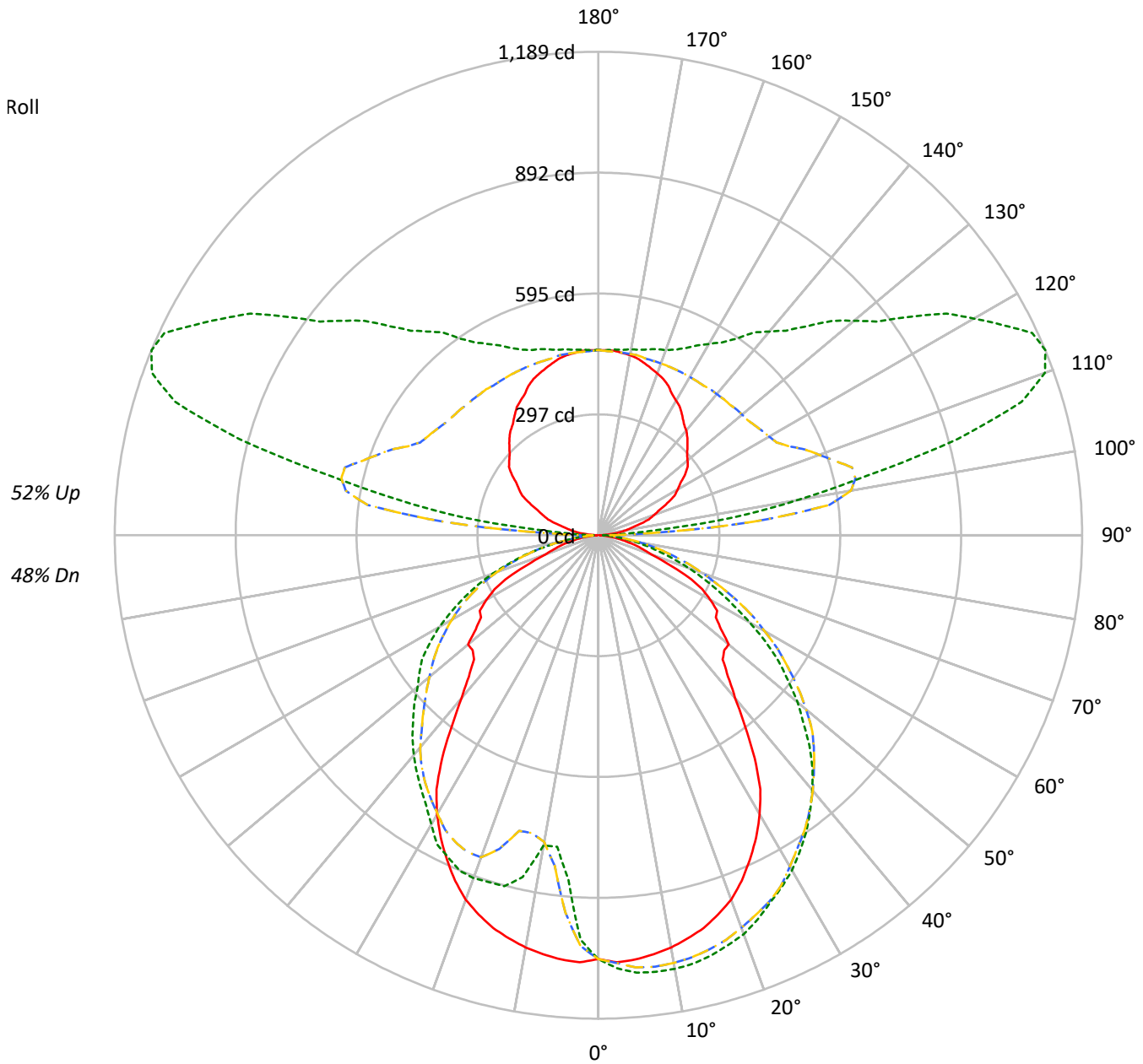
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5656.7 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 42.4
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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9672	9672	9672	9672
5°	9733	9764	9733	7677
10°	9658	9618	9658	6876
15°	9542	9410	9542	7857
20°	9332	9162	9332	7873
25°	8912	8802	8912	7706
30°	8374	8503	8374	7340
35°	7455	8126	7455	6938
40°	6201	7680	6201	6634
45°	5531	7159	5531	6284
50°	5862	6538	5862	5933
55°	5500	5869	5500	5730
60°	5648	4985	5648	5248
65°	5095	4120	5095	4606
70°	3503	3284	3503	3860
75°	3040	2427	3040	2907
80°	2401	1604	2401	1747
85°	1308	849	1308	722

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8492 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	1.7
10°-20°	267.1	4.7
20°-30°	413.0	7.3
30°-40°	493.0	8.7
40°-50°	495.9	8.8
50°-60°	431.5	7.6
60°-70°	305.9	5.4
70°-80°	161.8	2.9
80°-90°	42.0	0.7
90°-100°	222.0	3.9
100°-110°	583.6	10.3
110°-120°	605.2	10.7
120°-130°	485.4	8.6
130°-140°	380.9	6.7
140°-150°	292.3	5.2
150°-160°	210.5	3.7
160°-170°	128.8	2.3
170°-180°	43.5	0.8
0°-30°	774.2	13.7
0°-40°	1267.2	22.4
0°-60°	2194.5	38.8
0°-90°	2704.3	47.8
90°-120°	1410.8	24.9
90°-150°	2569.5	45.4
90°-180°	2952.0	52.2
0°-180°	5656.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1042	1042	1042	1042	1042	
5°	1047	1080	1047	849	1047	99
15°	1000	1070	1000	893	1000	281
25°	881	998	881	874	881	404
35°	670	890	670	760	670	414
45°	432	734	432	644	432	346
55°	352	541	352	529	352	324
65°	244	326	244	365	244	234
75°	93	155	93	185	93	97
85°	16	39	16	34	16	21
90°	3	12	3	12	3	3
95°	29	134	29	134	29	33
105°	105	914	105	914	105	111
115°	187	1177	187	1177	187	184
125°	260	937	260	937	260	231
135°	310	727	310	727	310	240
145°	359	590	359	590	359	225
155°	406	508	406	508	406	186
165°	438	473	438	473	438	124
175°	455	458	455	458	455	43
180°	455	455	455	455	455	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1051.2	1051.2	1057.2	1059.2	1059.2	1056.2	1053.2	1056.2	1065.1	1068.0	1067.0
5°	1047.2	1055.2	1066.1	1068.0	1070.0	1069.0	1067.0	1069.0	1078.9	1080.9	1081.8
7.5°	1039.3	1054.2	1068.0	1071.0	1074.0	1071.0	1070.0	1072.0	1081.8	1083.8	1083.8
10°	1029.5	1050.2	1066.1	1068.0	1071.0	1068.0	1068.0	1072.0	1081.8	1083.8	1084.8
12.5°	1015.7	1044.3	1059.2	1061.1	1065.1	1064.1	1063.1	1067.0	1076.9	1078.9	1078.9
15°	999.9	1033.4	1047.2	1049.2	1056.2	1054.2	1054.2	1058.2	1069.0	1072.0	1071.0
17.5°	978.2	1019.6	1035.4	1038.4	1043.3	1042.3	1043.3	1047.2	1057.2	1059.2	1060.1
20°	953.6	1000.9	1019.6	1022.6	1027.5	1027.5	1027.5	1032.4	1042.3	1046.2	1046.2
22.5°	920.0	981.2	1000.9	1002.9	1008.8	1008.8	1010.7	1017.7	1026.5	1027.5	1027.5
25°	880.6	959.5	976.2	982.2	988.1	991.0	994.0	997.9	1000.9	999.9	1000.9
27.5°	839.2	931.9	953.6	957.5	965.4	968.4	972.3	973.3	974.3	977.2	975.3
30°	792.8	893.4	926.0	929.9	942.7	944.7	940.7	942.7	947.6	949.6	951.6
32.5°	740.6	836.2	897.4	906.2	918.1	912.1	911.2	914.1	922.0	922.0	924.0
35°	669.6	791.9	870.7	878.6	887.5	880.6	884.5	885.5	890.5	893.4	892.4
37.5°	591.7	753.4	843.1	849.0	855.9	847.1	853.0	855.9	859.9	857.9	857.9
40°	522.7	693.3	810.6	814.5	820.5	813.5	819.5	821.4	823.4	821.4	820.5
42.5°	471.4	627.2	776.1	781.0	777.1	782.0	784.0	787.9	785.0	781.0	781.0
45°	432.0	609.4	738.6	744.5	738.6	746.5	749.5	749.5	740.6	738.6	737.6
47.5°	419.1	574.0	701.1	701.1	698.2	708.0	713.0	706.1	697.2	694.2	694.2
50°	418.2	534.5	649.9	645.9	659.7	671.6	666.6	659.7	652.8	642.0	642.0
52.5°	379.7	486.2	583.8	598.6	620.3	627.2	619.3	612.4	600.6	595.6	591.7
55°	352.1	435.9	523.7	553.2	575.9	584.8	570.0	563.1	545.4	542.4	540.4
57.5°	346.1	362.9	468.4	505.9	533.5	532.5	523.7	510.8	496.1	493.1	492.1
60°	317.5	262.3	409.3	453.7	482.3	479.3	471.4	459.6	445.8	443.8	441.8
62.5°	287.9	190.3	342.1	392.5	433.0	432.0	425.1	407.3	397.5	392.5	388.6
65°	244.5	159.7	243.5	326.4	384.6	386.6	371.8	359.0	348.1	342.1	341.2
67.5°	186.4	130.2	164.7	272.1	338.2	336.2	317.5	311.6	297.8	294.8	288.9
70°	138.0	86.8	114.4	220.9	292.8	287.9	273.1	266.2	253.4	246.5	242.6
72.5°	114.4	70.0	83.8	171.6	246.5	240.6	227.8	219.9	209.0	203.1	199.2
75°	92.7	74.0	64.1	127.2	200.2	196.2	184.4	176.5	167.6	159.7	160.7
77.5°	68.0	69.0	51.3	93.7	158.7	152.8	145.9	136.1	132.1	124.2	124.2
80°	51.3	54.2	38.5	64.1	114.4	114.4	108.5	101.6	94.7	90.7	90.7
82.5°	34.5	34.5	28.6	40.4	77.9	74.9	71.0	69.0	65.1	63.1	63.1
85°	15.8	19.7	17.7	24.6	42.4	44.4	44.4	42.4	41.4	39.4	40.4
87.5°	4.9	8.9	10.8	13.8	21.7	22.7	23.7	23.7	23.7	24.6	24.6
90°	3.1	5.5	8.0	8.6	13.5	20.0	23.3	20.7	15.5	11.6	11.6
92.5°	12.2	33.0	53.7	59.0	82.9	114.9	130.8	114.7	82.3	58.1	55.8
95°	29.4	67.4	105.5	115.0	204.1	322.9	382.4	341.2	258.8	197.1	190.1
97.5°	50.8	84.3	117.8	126.2	274.9	473.1	572.2	546.1	494.2	455.1	441.8
100°	67.2	97.6	128.1	135.7	300.6	520.6	630.5	632.4	636.3	639.1	623.3
102.5°	81.3	109.7	138.0	145.1	312.5	535.6	647.1	680.2	746.5	796.2	782.6
105°	105.1	129.2	153.2	159.2	321.2	537.3	645.2	719.6	868.2	979.6	972.3
107.5°	129.6	152.0	174.4	180.0	322.9	513.3	608.6	712.2	919.4	1074.9	1076.7
110°	146.1	166.3	186.6	191.7	320.4	492.1	578.0	693.8	925.6	1099.4	1107.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	162.3	181.6	200.8	205.7	320.5	473.7	550.2	668.8	905.9	1083.8	1095.5
115°	186.7	204.5	222.3	226.8	323.5	452.4	516.9	631.1	859.6	1031.0	1047.1
117.5°	210.9	227.1	243.2	247.3	329.5	439.1	493.9	597.0	803.2	957.9	975.8
120°	225.0	240.2	255.4	259.2	334.4	434.6	484.7	579.0	767.4	908.7	926.1
122.5°	238.7	254.1	269.4	273.2	341.4	432.3	477.7	562.5	732.2	859.5	876.8
125°	259.8	273.8	287.8	291.3	350.9	430.4	470.1	542.2	686.4	794.4	810.3
127.5°	277.0	291.1	305.2	308.7	360.4	429.3	463.7	525.6	649.4	742.2	755.6
130°	286.1	301.3	316.5	320.4	367.3	429.9	461.3	516.4	626.5	709.1	721.5
132.5°	295.6	310.8	326.0	329.8	372.9	430.4	459.1	508.4	607.1	681.0	692.1
135°	309.6	323.4	337.3	340.8	379.0	430.0	455.4	496.7	579.4	641.3	650.9
137.5°	324.0	337.7	351.4	354.9	388.2	432.7	454.8	489.7	559.6	611.9	619.7
140°	335.9	348.6	361.2	364.3	393.8	433.1	452.7	482.8	543.1	588.3	595.6
142.5°	345.1	356.7	368.4	371.3	398.4	434.6	452.7	479.2	532.1	571.9	578.2
145°	359.1	369.4	379.5	382.1	404.6	434.6	449.6	471.3	514.6	547.1	551.9
147.5°	373.2	383.1	393.0	395.5	413.5	437.6	449.6	466.7	500.8	526.3	530.3
150°	382.4	391.3	400.3	402.6	418.3	439.2	449.6	464.0	492.8	514.4	517.6
152.5°	391.8	398.6	405.4	407.1	421.3	440.2	449.6	461.9	486.5	504.9	507.3
155°	405.9	411.0	415.9	417.2	428.0	442.4	449.6	459.4	478.9	493.6	495.2
157.5°	416.3	421.2	426.1	427.3	434.7	444.7	449.6	457.2	472.4	483.8	484.9
160°	423.3	427.1	430.9	431.9	437.8	445.7	449.6	456.1	469.2	479.0	479.6
162.5°	430.4	433.2	436.1	436.8	441.0	446.8	449.6	455.1	466.1	474.4	475.0
165°	438.0	440.5	443.1	443.8	445.8	448.3	449.6	453.6	461.4	467.4	468.1
167.5°	445.0	446.2	447.4	447.7	449.4	451.6	452.7	455.2	460.5	464.3	464.6
170°	449.6	450.8	452.1	452.4	452.5	452.6	452.7	455.2	460.5	464.3	464.3
172.5°	452.1	452.4	452.6	452.7	452.7	452.7	452.7	454.7	458.8	461.8	461.6
175°	455.4	455.4	455.4	455.4	454.5	453.3	452.7	454.0	456.5	458.5	458.5
177.5°	455.4	455.4	455.4	455.4	454.7	453.8	453.3	454.3	456.3	457.9	457.6
180°	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1069.0	1066.1	1069.0	1067.0	1068.0	1065.1	1056.2	1053.2	1056.2	1059.2	1059.2
5°	1081.8	1079.9	1081.8	1081.8	1080.9	1078.9	1069.0	1067.0	1069.0	1070.0	1068.0
7.5°	1085.8	1082.8	1085.8	1083.8	1083.8	1081.8	1072.0	1070.0	1071.0	1074.0	1071.0
10°	1085.8	1082.8	1085.8	1084.8	1083.8	1081.8	1072.0	1068.0	1068.0	1071.0	1068.0
12.5°	1080.9	1078.9	1080.9	1078.9	1078.9	1076.9	1067.0	1063.1	1064.1	1065.1	1061.1
15°	1073.0	1070.0	1073.0	1071.0	1072.0	1069.0	1058.2	1054.2	1054.2	1056.2	1049.2
17.5°	1061.1	1057.2	1061.1	1060.1	1059.2	1057.2	1047.2	1043.3	1042.3	1043.3	1038.4
20°	1047.2	1044.3	1047.2	1046.2	1046.2	1042.3	1032.4	1027.5	1027.5	1027.5	1022.6
22.5°	1025.5	1022.6	1025.5	1027.5	1027.5	1026.5	1017.7	1010.7	1008.8	1008.8	1002.9
25°	1000.9	997.9	1000.9	1000.9	999.9	1000.9	997.9	994.0	991.0	988.1	982.2
27.5°	977.2	975.3	977.2	975.3	977.2	974.3	973.3	972.3	968.4	965.4	957.5
30°	953.6	951.6	953.6	951.6	949.6	947.6	942.7	940.7	944.7	942.7	929.9
32.5°	924.0	922.0	924.0	924.0	922.0	922.0	914.1	911.2	912.1	918.1	906.2
35°	893.4	890.5	893.4	892.4	893.4	890.5	885.5	884.5	880.6	887.5	878.6
37.5°	857.9	855.0	857.9	857.9	857.9	859.9	855.9	853.0	847.1	855.9	849.0
40°	821.4	817.5	821.4	820.5	821.4	823.4	821.4	819.5	813.5	820.5	814.5
42.5°	780.0	779.0	780.0	781.0	781.0	785.0	787.9	784.0	782.0	777.1	781.0
45°	735.7	733.7	735.7	737.6	738.6	740.6	749.5	749.5	746.5	738.6	744.5
47.5°	688.3	683.4	688.3	694.2	694.2	697.2	706.1	713.0	708.0	698.2	701.1
50°	638.0	639.0	638.0	642.0	642.0	652.8	659.7	666.6	671.6	659.7	645.9
52.5°	588.7	587.8	588.7	591.7	595.6	600.6	612.4	619.3	627.2	620.3	598.6
55°	539.4	541.4	539.4	540.4	542.4	545.4	563.1	570.0	584.8	575.9	553.2
57.5°	490.1	487.2	490.1	492.1	493.1	496.1	510.8	523.7	532.5	533.5	505.9
60°	433.0	429.0	433.0	441.8	443.8	445.8	459.6	471.4	479.3	482.3	453.7
62.5°	382.7	375.8	382.7	388.6	392.5	397.5	407.3	425.1	432.0	433.0	392.5
65°	329.3	326.4	329.3	341.2	342.1	348.1	359.0	371.8	386.6	384.6	326.4
67.5°	281.0	281.0	281.0	288.9	294.8	297.8	311.6	317.5	336.2	338.2	272.1
70°	236.6	235.7	236.6	242.6	246.5	253.4	266.2	273.1	287.9	292.8	220.9
72.5°	194.2	193.3	194.2	199.2	203.1	209.0	219.9	227.8	240.6	246.5	171.6
75°	156.8	154.8	156.8	160.7	159.7	167.6	176.5	184.4	196.2	200.2	127.2
77.5°	120.3	120.3	120.3	124.2	124.2	132.1	136.1	145.9	152.8	158.7	93.7
80°	89.7	88.7	89.7	90.7	90.7	94.7	101.6	108.5	114.4	114.4	64.1
82.5°	63.1	61.1	63.1	63.1	63.1	65.1	69.0	71.0	74.9	77.9	40.4
85°	39.4	39.4	39.4	40.4	39.4	41.4	42.4	44.4	44.4	42.4	24.6
87.5°	25.6	24.6	25.6	24.6	24.6	23.7	23.7	23.7	22.7	21.7	13.8
90°	11.6	11.6	11.6	11.6	11.6	15.5	20.7	23.3	20.0	13.5	8.6
92.5°	46.5	37.3	46.5	55.8	58.1	82.3	114.7	130.8	114.9	82.9	59.0
95°	162.2	134.2	162.2	190.1	197.1	258.8	341.2	382.4	322.9	204.1	115.0
97.5°	388.6	335.3	388.6	441.8	455.1	494.2	546.1	572.2	473.1	274.9	126.2
100°	559.9	496.4	559.9	623.3	639.1	636.3	632.4	630.5	520.6	300.6	135.7
102.5°	728.3	673.9	728.3	782.6	796.2	746.5	680.2	647.1	535.6	312.5	145.1
105°	943.1	913.9	943.1	972.3	979.6	868.2	719.6	645.2	537.3	321.2	159.2
107.5°	1083.8	1090.9	1083.8	1076.7	1074.9	919.4	712.2	608.6	513.3	322.9	180.0
110°	1137.4	1167.9	1137.4	1107.0	1099.4	925.6	693.8	578.0	492.1	320.4	191.7



TEST NUMBER: P934783

CATALOG NUMBER: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1142.3	1189.0	1142.3	1095.5	1083.8	905.9	668.8	550.2	473.7	320.5	205.7
115°	1112.0	1176.8	1112.0	1047.1	1031.0	859.6	631.1	516.9	452.4	323.5	226.8
117.5°	1047.7	1119.6	1047.7	975.8	957.9	803.2	597.0	493.9	439.1	329.5	247.3
120°	996.0	1065.8	996.0	926.1	908.7	767.4	579.0	484.7	434.6	334.4	259.2
122.5°	945.6	1014.5	945.6	876.8	859.5	732.2	562.5	477.7	432.3	341.4	273.2
125°	873.7	937.1	873.7	810.3	794.4	686.4	542.2	470.1	430.4	350.9	291.3
127.5°	809.0	862.6	809.0	755.6	742.2	649.4	525.6	463.7	429.3	360.4	308.7
130°	771.0	820.4	771.0	721.5	709.1	626.5	516.4	461.3	429.9	367.3	320.4
132.5°	736.3	780.6	736.3	692.1	681.0	607.1	508.4	459.1	430.4	372.9	329.8
135°	689.0	727.2	689.0	650.9	641.3	579.4	496.7	455.4	430.0	379.0	340.8
137.5°	651.0	682.2	651.0	619.7	611.9	559.6	489.7	454.8	432.7	388.2	354.9
140°	624.9	654.1	624.9	595.6	588.3	543.1	482.8	452.7	433.1	393.8	364.3
142.5°	603.2	628.4	603.2	578.2	571.9	532.1	479.2	452.7	434.6	398.4	371.3
145°	570.9	589.9	570.9	551.9	547.1	514.6	471.3	449.6	434.6	404.6	382.1
147.5°	546.0	561.8	546.0	530.3	526.3	500.8	466.7	449.6	437.6	413.5	395.5
150°	530.4	543.2	530.4	517.6	514.4	492.8	464.0	449.6	439.2	418.3	402.6
152.5°	517.0	526.6	517.0	507.3	504.9	486.5	461.9	449.6	440.2	421.3	407.1
155°	501.6	508.0	501.6	495.2	493.6	478.9	459.4	449.6	442.4	428.0	417.2
157.5°	489.5	493.9	489.5	484.9	483.8	472.4	457.2	449.6	444.7	434.7	427.3
160°	482.2	484.7	482.2	479.6	479.0	469.2	456.1	449.6	445.7	437.8	431.9
162.5°	477.4	479.9	477.4	475.0	474.4	466.1	455.1	449.6	446.8	441.0	436.8
165°	470.6	473.2	470.6	468.1	467.4	461.4	453.6	449.6	448.3	445.8	443.8
167.5°	465.7	466.8	465.7	464.6	464.3	460.5	455.2	452.7	451.6	449.4	447.7
170°	464.3	464.3	464.3	464.3	464.3	460.5	455.2	452.7	452.6	452.5	452.4
172.5°	460.7	459.7	460.7	461.6	461.8	458.8	454.7	452.7	452.7	452.7	452.7
175°	458.5	458.5	458.5	458.5	458.5	456.5	454.0	452.7	453.3	454.5	455.4
177.5°	456.5	455.4	456.5	457.6	457.9	456.3	454.3	453.3	453.8	454.7	455.4
180°	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4



TEST NUMBER: P934783

CATALOG NUMBER: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1057.2	1051.2	1051.2	1041.3	1037.4	1034.4	1029.5	1014.7	1010.7	1006.8	1012.7
5°	1066.1	1055.2	1047.2	1029.5	1014.7	1008.8	990.0	954.5	930.9	913.1	903.3
7.5°	1068.0	1054.2	1039.3	1011.7	976.2	960.5	903.3	838.2	820.5	804.7	794.8
10°	1066.1	1050.2	1029.5	988.1	904.3	876.7	819.5	777.1	766.2	763.3	766.2
12.5°	1059.2	1044.3	1015.7	946.7	829.3	810.6	777.1	752.4	750.4	755.4	782.0
15°	1047.2	1033.4	999.9	891.4	787.9	774.1	750.4	741.6	752.4	786.9	866.8
17.5°	1035.4	1019.6	978.2	837.2	756.4	746.5	729.7	747.5	808.6	855.0	881.6
20°	1019.6	1000.9	953.6	797.8	733.7	724.8	716.9	796.8	843.1	859.9	874.7
22.5°	1000.9	981.2	920.0	770.2	710.0	703.1	708.0	824.4	843.1	855.0	867.8
25°	976.2	959.5	880.6	748.5	691.3	683.4	702.1	821.4	832.3	835.2	860.9
27.5°	953.6	931.9	839.2	728.8	668.6	665.6	707.1	808.6	816.5	819.5	847.1
30°	926.0	893.4	792.8	708.0	644.9	644.0	708.0	792.8	790.9	798.8	826.4
32.5°	897.4	836.2	740.6	682.4	622.3	621.3	701.1	769.2	767.2	778.1	798.8
35°	870.7	791.9	669.6	652.8	593.7	594.7	684.4	741.6	742.6	752.4	765.2
37.5°	843.1	753.4	591.7	620.3	566.1	566.1	661.7	715.9	714.0	716.9	734.7
40°	810.6	693.3	522.7	577.9	540.4	537.5	634.1	688.3	681.4	680.4	705.1
42.5°	776.1	627.2	471.4	521.7	510.8	506.9	600.6	654.8	642.0	644.9	676.5
45°	738.6	609.4	432.0	440.8	480.3	477.3	564.1	616.3	607.5	615.4	647.9
47.5°	701.1	574.0	419.1	365.9	447.7	446.8	523.7	578.9	574.0	581.8	616.3
50°	649.9	534.5	418.2	313.5	411.3	415.2	475.4	542.4	542.4	549.3	585.8
52.5°	583.8	486.2	379.7	284.0	368.9	380.7	433.0	510.8	512.8	519.7	552.3
55°	523.7	435.9	352.1	261.3	318.5	344.1	391.5	478.3	482.3	489.2	518.7
57.5°	468.4	362.9	346.1	234.7	272.1	296.8	355.1	446.8	448.7	454.6	483.2
60°	409.3	262.3	317.5	206.1	231.7	250.4	321.4	409.3	416.2	420.1	444.8
62.5°	342.1	190.3	287.9	186.4	212.0	215.9	293.8	373.8	382.7	385.6	400.4
65°	243.5	159.7	244.5	169.6	191.3	192.3	264.2	337.2	345.1	350.0	361.0
67.5°	164.7	130.2	186.4	153.8	175.5	176.5	235.7	294.8	305.7	309.6	316.5
70°	114.4	86.8	138.0	137.1	157.8	159.7	205.1	256.4	266.2	269.2	273.1
72.5°	83.8	70.0	114.4	123.2	139.0	141.0	173.5	213.0	222.8	225.8	227.8
75°	64.1	74.0	92.7	107.5	118.3	119.3	142.0	173.5	180.4	182.4	183.4
77.5°	51.3	69.0	68.0	86.8	96.6	94.7	111.4	134.1	140.0	140.0	140.0
80°	38.5	54.2	51.3	62.1	71.0	69.0	79.9	95.6	97.6	99.6	98.6
82.5°	28.6	34.5	34.5	39.4	47.3	45.4	53.2	62.1	62.1	62.1	64.1
85°	17.7	19.7	15.8	20.7	26.6	25.6	29.6	33.5	34.5	34.5	32.5
87.5°	10.8	8.9	4.9	7.9	11.8	11.8	13.8	14.8	13.8	13.8	13.8
90°	8.0	5.5	3.1	5.5	8.0	8.6	13.5	20.0	23.3	20.7	15.5
92.5°	53.7	33.0	12.2	33.0	53.7	59.0	82.9	114.9	130.8	114.7	82.3
95°	105.5	67.4	29.4	67.4	105.5	115.0	204.1	322.9	382.4	341.2	258.8
97.5°	117.8	84.3	50.8	84.3	117.8	126.2	274.9	473.1	572.2	546.1	494.2
100°	128.1	97.6	67.2	97.6	128.1	135.7	300.6	520.6	630.5	632.4	636.3
102.5°	138.0	109.7	81.3	109.7	138.0	145.1	312.5	535.6	647.1	680.2	746.5
105°	153.2	129.2	105.1	129.2	153.2	159.2	321.2	537.3	645.2	719.6	868.2
107.5°	174.4	152.0	129.6	152.0	174.4	180.0	322.9	513.3	608.6	712.2	919.4
110°	186.6	166.3	146.1	166.3	186.6	191.7	320.4	492.1	578.0	693.8	925.6



TEST NUMBER: P934783

CATALOG NUMBER: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	200.8	181.6	162.3	181.6	200.8	205.7	320.5	473.7	550.2	668.8	905.9
115°	222.3	204.5	186.7	204.5	222.3	226.8	323.5	452.4	516.9	631.1	859.6
117.5°	243.2	227.1	210.9	227.1	243.2	247.3	329.5	439.1	493.9	597.0	803.2
120°	255.4	240.2	225.0	240.2	255.4	259.2	334.4	434.6	484.7	579.0	767.4
122.5°	269.4	254.1	238.7	254.1	269.4	273.2	341.4	432.3	477.7	562.5	732.2
125°	287.8	273.8	259.8	273.8	287.8	291.3	350.9	430.4	470.1	542.2	686.4
127.5°	305.2	291.1	277.0	291.1	305.2	308.7	360.4	429.3	463.7	525.6	649.4
130°	316.5	301.3	286.1	301.3	316.5	320.4	367.3	429.9	461.3	516.4	626.5
132.5°	326.0	310.8	295.6	310.8	326.0	329.8	372.9	430.4	459.1	508.4	607.1
135°	337.3	323.4	309.6	323.4	337.3	340.8	379.0	430.0	455.4	496.7	579.4
137.5°	351.4	337.7	324.0	337.7	351.4	354.9	388.2	432.7	454.8	489.7	559.6
140°	361.2	348.6	335.9	348.6	361.2	364.3	393.8	433.1	452.7	482.8	543.1
142.5°	368.4	356.7	345.1	356.7	368.4	371.3	398.4	434.6	452.7	479.2	532.1
145°	379.5	369.4	359.1	369.4	379.5	382.1	404.6	434.6	449.6	471.3	514.6
147.5°	393.0	383.1	373.2	383.1	393.0	395.5	413.5	437.6	449.6	466.7	500.8
150°	400.3	391.3	382.4	391.3	400.3	402.6	418.3	439.2	449.6	464.0	492.8
152.5°	405.4	398.6	391.8	398.6	405.4	407.1	421.3	440.2	449.6	461.9	486.5
155°	415.9	411.0	405.9	411.0	415.9	417.2	428.0	442.4	449.6	459.4	478.9
157.5°	426.1	421.2	416.3	421.2	426.1	427.3	434.7	444.7	449.6	457.2	472.4
160°	430.9	427.1	423.3	427.1	430.9	431.9	437.8	445.7	449.6	456.1	469.2
162.5°	436.1	433.2	430.4	433.2	436.1	436.8	441.0	446.8	449.6	455.1	466.1
165°	443.1	440.5	438.0	440.5	443.1	443.8	445.8	448.3	449.6	453.6	461.4
167.5°	447.4	446.2	445.0	446.2	447.4	447.7	449.4	451.6	452.7	455.2	460.5
170°	452.1	450.8	449.6	450.8	452.1	452.4	452.5	452.6	452.7	455.2	460.5
172.5°	452.6	452.4	452.1	452.4	452.6	452.7	452.7	452.7	452.7	454.7	458.8
175°	455.4	455.4	455.4	455.4	455.4	455.4	454.5	453.3	452.7	454.0	456.5
177.5°	455.4	455.4	455.4	455.4	455.4	455.4	454.7	453.8	453.3	454.3	456.3
180°	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4



TEST NUMBER: P934783

CATALOG NUMBER: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1005.8	1002.9	1006.8	996.0	1006.8	1002.9	1005.8	1012.7	1006.8	1010.7	1014.7
5°	882.6	877.6	861.9	849.0	861.9	877.6	882.6	903.3	913.1	930.9	954.5
7.5°	788.9	785.0	781.0	773.1	781.0	785.0	788.9	794.8	804.7	820.5	838.2
10°	768.2	769.2	775.1	774.1	775.1	769.2	768.2	766.2	763.3	766.2	777.1
12.5°	821.4	830.3	862.8	860.9	862.8	830.3	821.4	782.0	755.4	750.4	752.4
15°	882.6	885.5	892.4	893.4	892.4	885.5	882.6	866.8	786.9	752.4	741.6
17.5°	888.5	889.5	894.4	894.4	894.4	889.5	888.5	881.6	855.0	808.6	747.5
20°	883.6	885.5	895.4	897.4	895.4	885.5	883.6	874.7	859.9	843.1	796.8
22.5°	881.6	885.5	893.4	892.4	893.4	885.5	881.6	867.8	855.0	843.1	824.4
25°	871.7	871.7	872.7	873.7	872.7	871.7	871.7	860.9	835.2	832.3	821.4
27.5°	851.0	853.0	858.9	857.9	858.9	853.0	851.0	847.1	819.5	816.5	808.6
30°	832.3	830.3	825.4	821.4	825.4	830.3	832.3	826.4	798.8	790.9	792.8
32.5°	800.7	795.8	790.9	787.9	790.9	795.8	800.7	798.8	778.1	767.2	769.2
35°	763.3	764.2	763.3	760.3	763.3	764.2	763.3	765.2	752.4	742.6	741.6
37.5°	736.6	738.6	737.6	733.7	737.6	738.6	736.6	734.7	716.9	714.0	715.9
40°	709.0	710.0	709.0	706.1	709.0	710.0	709.0	705.1	680.4	681.4	688.3
42.5°	682.4	681.4	678.5	676.5	678.5	681.4	682.4	676.5	644.9	642.0	654.8
45°	651.8	652.8	646.9	644.0	646.9	652.8	651.8	647.9	615.4	607.5	616.3
47.5°	621.3	621.3	616.3	613.4	616.3	621.3	621.3	616.3	581.8	574.0	578.9
50°	588.7	587.8	580.9	579.9	580.9	587.8	588.7	585.8	549.3	542.4	542.4
52.5°	551.3	551.3	552.3	554.2	552.3	551.3	551.3	552.3	519.7	512.8	510.8
55°	518.7	519.7	526.6	528.6	526.6	519.7	518.7	518.7	489.2	482.3	478.3
57.5°	485.2	485.2	490.1	490.1	490.1	485.2	485.2	483.2	454.6	448.7	446.8
60°	446.8	448.7	452.7	451.7	452.7	448.7	446.8	444.8	420.1	416.2	409.3
62.5°	406.3	408.3	409.3	407.3	409.3	408.3	406.3	400.4	385.6	382.7	373.8
65°	363.9	365.9	366.9	364.9	366.9	365.9	363.9	361.0	350.0	345.1	337.2
67.5°	320.4	319.5	318.5	322.4	318.5	319.5	320.4	316.5	309.6	305.7	294.8
70°	276.1	276.1	275.1	277.1	275.1	276.1	276.1	273.1	269.2	266.2	256.4
72.5°	228.8	227.8	231.7	228.8	231.7	227.8	228.8	227.8	225.8	222.8	213.0
75°	182.4	184.4	182.4	185.4	182.4	184.4	182.4	183.4	182.4	180.4	173.5
77.5°	139.0	141.0	139.0	139.0	139.0	141.0	139.0	140.0	140.0	140.0	134.1
80°	98.6	97.6	97.6	96.6	97.6	97.6	98.6	98.6	99.6	97.6	95.6
82.5°	63.1	62.1	62.1	64.1	62.1	62.1	63.1	64.1	62.1	62.1	62.1
85°	34.5	35.5	33.5	33.5	33.5	35.5	34.5	32.5	34.5	34.5	33.5
87.5°	12.8	11.8	11.8	11.8	11.8	11.8	12.8	13.8	13.8	13.8	14.8
90°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	15.5	20.7	23.3	20.0
92.5°	58.1	55.8	46.5	37.3	46.5	55.8	58.1	82.3	114.7	130.8	114.9
95°	197.1	190.1	162.2	134.2	162.2	190.1	197.1	258.8	341.2	382.4	322.9
97.5°	455.1	441.8	388.6	335.3	388.6	441.8	455.1	494.2	546.1	572.2	473.1
100°	639.1	623.3	559.9	496.4	559.9	623.3	639.1	636.3	632.4	630.5	520.6
102.5°	796.2	782.6	728.3	673.9	728.3	782.6	796.2	746.5	680.2	647.1	535.6
105°	979.6	972.3	943.1	913.9	943.1	972.3	979.6	868.2	719.6	645.2	537.3
107.5°	1074.9	1076.7	1083.8	1090.9	1083.8	1076.7	1074.9	919.4	712.2	608.6	513.3
110°	1099.4	1107.0	1137.4	1167.9	1137.4	1107.0	1099.4	925.6	693.8	578.0	492.1



TEST NUMBER: P934783

CATALOG NUMBER: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1083.8	1095.5	1142.3	1189.0	1142.3	1095.5	1083.8	905.9	668.8	550.2	473.7
115°	1031.0	1047.1	1112.0	1176.8	1112.0	1047.1	1031.0	859.6	631.1	516.9	452.4
117.5°	957.9	975.8	1047.7	1119.6	1047.7	975.8	957.9	803.2	597.0	493.9	439.1
120°	908.7	926.1	996.0	1065.8	996.0	926.1	908.7	767.4	579.0	484.7	434.6
122.5°	859.5	876.8	945.6	1014.5	945.6	876.8	859.5	732.2	562.5	477.7	432.3
125°	794.4	810.3	873.7	937.1	873.7	810.3	794.4	686.4	542.2	470.1	430.4
127.5°	742.2	755.6	809.0	862.6	809.0	755.6	742.2	649.4	525.6	463.7	429.3
130°	709.1	721.5	771.0	820.4	771.0	721.5	709.1	626.5	516.4	461.3	429.9
132.5°	681.0	692.1	736.3	780.6	736.3	692.1	681.0	607.1	508.4	459.1	430.4
135°	641.3	650.9	689.0	727.2	689.0	650.9	641.3	579.4	496.7	455.4	430.0
137.5°	611.9	619.7	651.0	682.2	651.0	619.7	611.9	559.6	489.7	454.8	432.7
140°	588.3	595.6	624.9	654.1	624.9	595.6	588.3	543.1	482.8	452.7	433.1
142.5°	571.9	578.2	603.2	628.4	603.2	578.2	571.9	532.1	479.2	452.7	434.6
145°	547.1	551.9	570.9	589.9	570.9	551.9	547.1	514.6	471.3	449.6	434.6
147.5°	526.3	530.3	546.0	561.8	546.0	530.3	526.3	500.8	466.7	449.6	437.6
150°	514.4	517.6	530.4	543.2	530.4	517.6	514.4	492.8	464.0	449.6	439.2
152.5°	504.9	507.3	517.0	526.6	517.0	507.3	504.9	486.5	461.9	449.6	440.2
155°	493.6	495.2	501.6	508.0	501.6	495.2	493.6	478.9	459.4	449.6	442.4
157.5°	483.8	484.9	489.5	493.9	489.5	484.9	483.8	472.4	457.2	449.6	444.7
160°	479.0	479.6	482.2	484.7	482.2	479.6	479.0	469.2	456.1	449.6	445.7
162.5°	474.4	475.0	477.4	479.9	477.4	475.0	474.4	466.1	455.1	449.6	446.8
165°	467.4	468.1	470.6	473.2	470.6	468.1	467.4	461.4	453.6	449.6	448.3
167.5°	464.3	464.6	465.7	466.8	465.7	464.6	464.3	460.5	455.2	452.7	451.6
170°	464.3	464.3	464.3	464.3	464.3	464.3	464.3	460.5	455.2	452.7	452.6
172.5°	461.8	461.6	460.7	459.7	460.7	461.6	461.8	458.8	454.7	452.7	452.7
175°	458.5	458.5	458.5	458.5	458.5	458.5	458.5	456.5	454.0	452.7	453.3
177.5°	457.9	457.6	456.5	455.4	456.5	457.6	457.9	456.3	454.3	453.3	453.8
180°	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4



TEST NUMBER: P934783

CATALOG NUMBER: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1029.5	1034.4	1037.4	1041.3	1051.2
5°	990.0	1008.8	1014.7	1029.5	1047.2
7.5°	903.3	960.5	976.2	1011.7	1039.3
10°	819.5	876.7	904.3	988.1	1029.5
12.5°	777.1	810.6	829.3	946.7	1015.7
15°	750.4	774.1	787.9	891.4	999.9
17.5°	729.7	746.5	756.4	837.2	978.2
20°	716.9	724.8	733.7	797.8	953.6
22.5°	708.0	703.1	710.0	770.2	920.0
25°	702.1	683.4	691.3	748.5	880.6
27.5°	707.1	665.6	668.6	728.8	839.2
30°	708.0	644.0	644.9	708.0	792.8
32.5°	701.1	621.3	622.3	682.4	740.6
35°	684.4	594.7	593.7	652.8	669.6
37.5°	661.7	566.1	566.1	620.3	591.7
40°	634.1	537.5	540.4	577.9	522.7
42.5°	600.6	506.9	510.8	521.7	471.4
45°	564.1	477.3	480.3	440.8	432.0
47.5°	523.7	446.8	447.7	365.9	419.1
50°	475.4	415.2	411.3	313.5	418.2
52.5°	433.0	380.7	368.9	284.0	379.7
55°	391.5	344.1	318.5	261.3	352.1
57.5°	355.1	296.8	272.1	234.7	346.1
60°	321.4	250.4	231.7	206.1	317.5
62.5°	293.8	215.9	212.0	186.4	287.9
65°	264.2	192.3	191.3	169.6	244.5
67.5°	235.7	176.5	175.5	153.8	186.4
70°	205.1	159.7	157.8	137.1	138.0
72.5°	173.5	141.0	139.0	123.2	114.4
75°	142.0	119.3	118.3	107.5	92.7
77.5°	111.4	94.7	96.6	86.8	68.0
80°	79.9	69.0	71.0	62.1	51.3
82.5°	53.2	45.4	47.3	39.4	34.5
85°	29.6	25.6	26.6	20.7	15.8
87.5°	13.8	11.8	11.8	7.9	4.9
90°	13.5	8.6	8.0	5.5	3.1
92.5°	82.9	59.0	53.7	33.0	12.2
95°	204.1	115.0	105.5	67.4	29.4
97.5°	274.9	126.2	117.8	84.3	50.8
100°	300.6	135.7	128.1	97.6	67.2
102.5°	312.5	145.1	138.0	109.7	81.3
105°	321.2	159.2	153.2	129.2	105.1
107.5°	322.9	180.0	174.4	152.0	129.6
110°	320.4	191.7	186.6	166.3	146.1



TEST NUMBER: P934783

CATALOG NUMBER: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	320.5	205.7	200.8	181.6	162.3
115°	323.5	226.8	222.3	204.5	186.7
117.5°	329.5	247.3	243.2	227.1	210.9
120°	334.4	259.2	255.4	240.2	225.0
122.5°	341.4	273.2	269.4	254.1	238.7
125°	350.9	291.3	287.8	273.8	259.8
127.5°	360.4	308.7	305.2	291.1	277.0
130°	367.3	320.4	316.5	301.3	286.1
132.5°	372.9	329.8	326.0	310.8	295.6
135°	379.0	340.8	337.3	323.4	309.6
137.5°	388.2	354.9	351.4	337.7	324.0
140°	393.8	364.3	361.2	348.6	335.9
142.5°	398.4	371.3	368.4	356.7	345.1
145°	404.6	382.1	379.5	369.4	359.1
147.5°	413.5	395.5	393.0	383.1	373.2
150°	418.3	402.6	400.3	391.3	382.4
152.5°	421.3	407.1	405.4	398.6	391.8
155°	428.0	417.2	415.9	411.0	405.9
157.5°	434.7	427.3	426.1	421.2	416.3
160°	437.8	431.9	430.9	427.1	423.3
162.5°	441.0	436.8	436.1	433.2	430.4
165°	445.8	443.8	443.1	440.5	438.0
167.5°	449.4	447.7	447.4	446.2	445.0
170°	452.5	452.4	452.1	450.8	449.6
172.5°	452.7	452.7	452.6	452.4	452.1
175°	454.5	455.4	455.4	455.4	455.4
177.5°	454.7	455.4	455.4	455.4	455.4
180°	455.4	455.4	455.4	455.4	455.4



TEST NUMBER: P934783
 CATALOG NUMBER: SQ4-FA-075U-075D-B2750-1D-UNV-STD-W-4-3000K

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	12.47	13.31	13.45	14.30	15.60	15.27	16.11	16.24	17.10	18.40
	3H	12.95	13.70	13.93	14.70	16.02	16.60	17.36	17.59	18.36	19.68
	4H	13.14	13.85	14.14	14.85	16.19	17.04	17.75	18.04	18.76	20.09
	6H	13.26	13.91	14.27	14.92	16.26	17.32	17.97	18.33	18.98	20.32
	8H	13.26	13.88	14.27	14.91	16.25	17.38	18.01	18.40	19.03	20.38
	12H	13.23	13.82	14.25	14.84	16.20	17.42	18.01	18.44	19.03	20.40
4H	2H	13.49	14.21	14.50	15.21	16.54	15.68	16.39	16.68	17.39	18.73
	3H	14.52	15.11	15.53	16.14	17.49	17.17	17.77	18.19	18.80	20.14
	4H	14.79	15.34	15.82	16.36	17.73	17.69	18.24	18.71	19.26	20.63
	6H	14.92	15.39	15.95	16.43	17.80	18.05	18.52	19.08	19.56	20.93
	8H	14.92	15.36	15.96	16.40	17.78	18.15	18.59	19.18	19.63	21.01
	12H	14.89	15.28	15.94	16.34	17.72	18.20	18.59	19.25	19.65	21.03
8H	4H	15.24	15.68	16.28	16.72	18.10	17.82	18.25	18.85	19.29	20.67
	6H	15.50	15.86	16.56	16.94	18.32	18.24	18.60	19.30	19.69	21.06
	8H	15.54	15.86	16.61	16.93	18.32	18.39	18.71	19.46	19.77	21.17
	12H	15.53	15.81	16.60	16.87	18.31	18.48	18.76	19.55	19.82	21.26
12H	4H	15.24	15.64	16.30	16.69	18.08	17.78	18.17	18.83	19.23	20.61
	6H	15.56	15.88	16.63	16.94	18.34	18.24	18.56	19.31	19.62	21.02
	8H	15.63	15.91	16.70	16.97	18.40	18.40	18.67	19.47	19.74	21.17