

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: P934683

Luminaire Tested: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934683
REPORT IS A COMBINATION OF REPORTS P933706 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

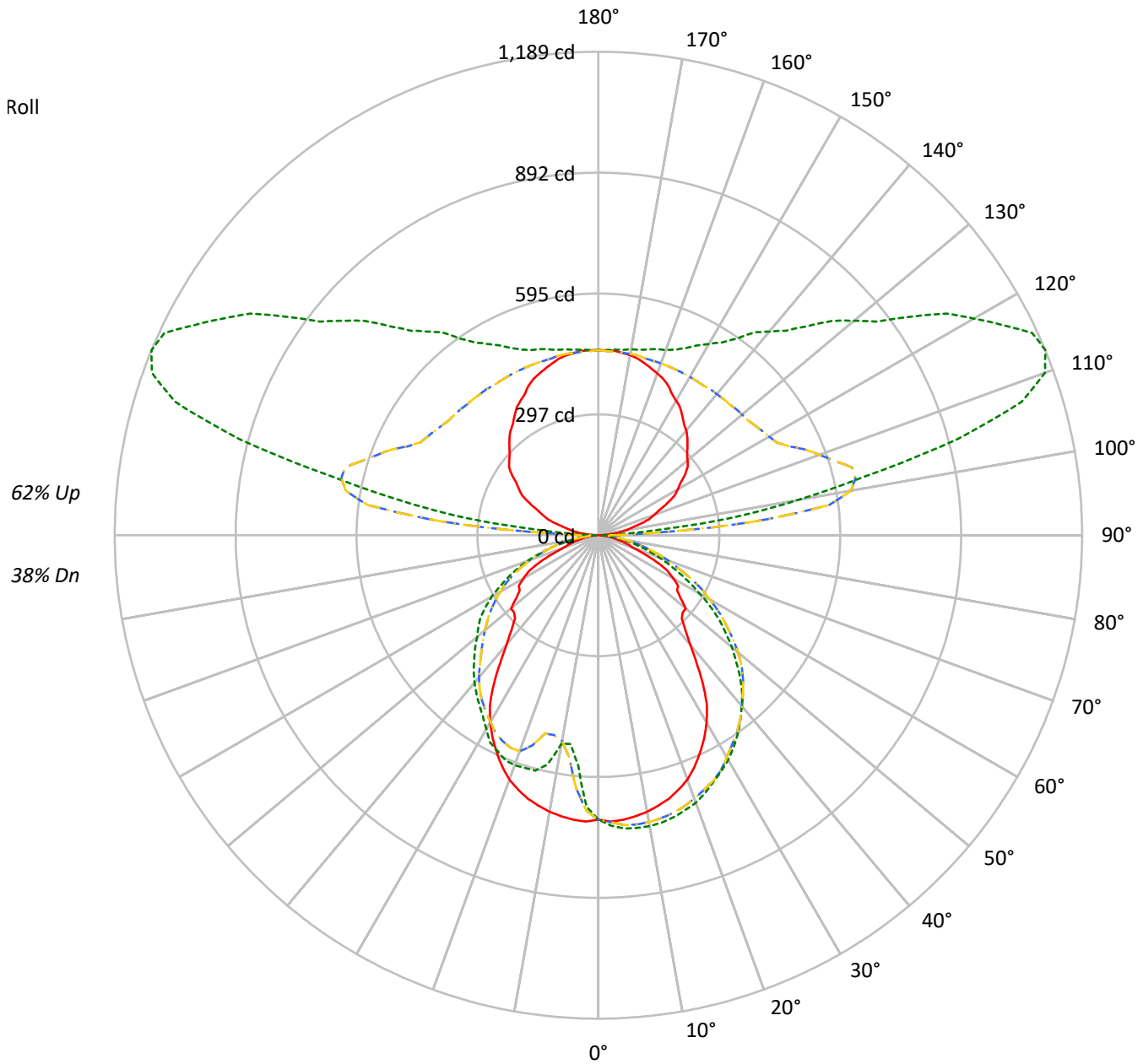
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4766.4 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.4
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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CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-4-3000K

Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6486	6486	6486	6486
5°	6526	6547	6526	5148
10°	6477	6449	6477	4611
15°	6398	6310	6398	5269
20°	6257	6144	6257	5280
25°	5976	5903	5976	5168
30°	5616	5702	5616	4923
35°	4999	5448	4999	4653
40°	4157	5150	4157	4448
45°	3708	4801	3708	4214
50°	3931	4384	3931	3978
55°	3686	3935	3686	3843
60°	3789	3342	3789	3519
65°	3418	2763	3418	3087
70°	2351	2203	2351	2590
75°	2036	1627	2036	1949
80°	1610	1078	1610	1172
85°	878	569	878	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5694 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.3
10°-20°	179.1	3.8
20°-30°	276.9	5.8
30°-40°	330.6	6.9
40°-50°	332.5	7.0
50°-60°	289.3	6.1
60°-70°	205.1	4.3
70°-80°	108.5	2.3
80°-90°	28.8	0.6
90°-100°	222.0	4.7
100°-110°	583.6	12.2
110°-120°	605.2	12.7
120°-130°	485.4	10.2
130°-140°	380.9	8.0
140°-150°	292.3	6.1
150°-160°	210.5	4.4
160°-170°	128.8	2.7
170°-180°	43.5	0.9
0°-30°	519.1	10.9
0°-40°	849.7	17.8
0°-60°	1471.6	30.9
0°-90°	1814.0	38.1
90°-120°	1410.8	29.6
90°-150°	2569.5	53.9
90°-180°	2952.0	61.9
0°-180°	4766.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	699	699	699	699	699	
5°	702	724	702	569	702	67
15°	670	718	670	599	670	189
25°	590	669	590	586	590	271
35°	449	597	449	510	449	278
45°	290	492	290	432	290	232
55°	236	363	236	354	236	217
65°	164	219	164	245	164	157
75°	62	104	62	124	62	65
85°	11	26	11	22	11	14
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°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	704.9	704.9	708.8	710.2	710.2	708.2	706.3	708.2	714.2	716.1	715.4
5°	702.2	707.6	714.8	716.1	717.5	716.8	715.4	716.8	723.4	724.7	725.4
7.5°	697.0	706.9	716.1	718.1	720.1	718.1	717.5	718.8	725.4	726.7	726.7
10°	690.4	704.2	714.8	716.1	718.1	716.1	716.1	718.8	725.4	726.7	727.4
12.5°	681.1	700.3	710.2	711.5	714.2	713.5	712.9	715.4	722.1	723.4	723.4
15°	670.5	693.0	702.2	703.6	708.2	706.9	706.9	709.5	716.8	718.8	718.1
17.5°	656.0	683.8	694.3	696.3	699.7	699.0	699.7	702.2	708.8	710.2	710.9
20°	639.4	671.2	683.8	685.8	689.0	689.0	689.0	692.4	699.0	701.6	701.6
22.5°	616.9	658.0	671.2	672.6	676.5	676.5	677.8	682.4	688.3	689.0	689.0
25°	590.5	643.4	654.6	658.6	662.6	664.6	666.5	669.2	671.2	670.5	671.2
27.5°	562.7	624.9	639.4	642.1	647.4	649.4	652.0	652.6	653.3	655.3	654.0
30°	531.7	599.1	620.9	623.5	632.1	633.5	630.8	632.1	635.5	636.8	638.1
32.5°	496.6	560.7	601.8	607.7	615.7	611.7	611.0	613.0	618.3	618.3	619.6
35°	449.0	531.0	583.9	589.2	595.1	590.5	593.2	593.8	597.1	599.1	598.4
37.5°	396.8	505.2	565.4	569.3	574.0	568.0	572.0	574.0	576.6	575.3	575.3
40°	350.4	464.9	543.6	546.2	550.2	545.6	549.5	550.9	552.2	550.9	550.2
42.5°	316.1	420.5	520.4	523.8	521.1	524.4	525.7	528.4	526.3	523.8	523.8
45°	289.6	408.7	495.3	499.2	495.3	500.6	502.6	502.6	496.6	495.3	494.6
47.5°	281.0	384.8	470.1	470.1	468.2	474.8	478.1	473.5	467.6	465.5	465.5
50°	280.4	358.4	435.8	433.1	442.4	450.3	447.1	442.4	437.8	430.5	430.5
52.5°	254.6	326.0	391.4	401.4	415.9	420.5	415.3	410.7	402.7	399.4	396.8
55°	236.0	292.3	351.1	370.9	386.2	392.1	382.2	377.5	365.7	363.7	362.4
57.5°	232.1	243.3	314.1	339.2	357.7	357.1	351.1	342.5	332.6	330.6	330.0
60°	213.0	175.9	274.4	304.2	323.3	321.3	316.1	308.1	298.9	297.6	296.3
62.5°	193.1	127.6	229.4	263.2	290.3	289.6	285.1	273.1	266.5	263.2	260.5
65°	164.0	107.1	163.4	218.9	257.9	259.2	249.3	240.7	233.4	229.4	228.8
67.5°	125.0	87.3	110.4	182.5	226.8	225.5	213.0	208.9	199.7	197.7	193.7
70°	92.6	58.2	76.7	148.1	196.4	193.1	183.2	178.6	170.0	165.4	162.7
72.5°	76.7	46.9	56.2	115.1	165.4	161.3	152.7	147.5	140.2	136.3	133.6
75°	62.1	49.6	43.0	85.3	134.2	131.6	123.6	118.3	112.4	107.1	107.8
77.5°	45.7	46.2	34.4	62.8	106.5	102.5	97.9	91.3	88.6	83.3	83.3
80°	34.4	36.4	25.8	43.0	76.7	76.7	72.8	68.1	63.5	60.8	60.8
82.5°	23.2	23.2	19.1	27.1	52.3	50.3	47.6	46.2	43.7	42.3	42.3
85°	10.6	13.2	11.9	16.6	28.4	29.8	29.8	28.4	27.8	26.4	27.1
87.5°	3.4	5.9	7.3	9.3	14.6	15.2	15.9	15.9	15.9	16.6	16.6
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°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	716.8	714.8	716.8	715.4	716.1	714.2	708.2	706.3	708.2	710.2	710.2
5°	725.4	724.1	725.4	725.4	724.7	723.4	716.8	715.4	716.8	717.5	716.1
7.5°	728.1	726.1	728.1	726.7	726.7	725.4	718.8	717.5	718.1	720.1	718.1
10°	728.1	726.1	728.1	727.4	726.7	725.4	718.8	716.1	716.1	718.1	716.1
12.5°	724.7	723.4	724.7	723.4	723.4	722.1	715.4	712.9	713.5	714.2	711.5
15°	719.5	717.5	719.5	718.1	718.8	716.8	709.5	706.9	706.9	708.2	703.6
17.5°	711.5	708.8	711.5	710.9	710.2	708.8	702.2	699.7	699.0	699.7	696.3
20°	702.2	700.3	702.2	701.6	701.6	699.0	692.4	689.0	689.0	689.0	685.8
22.5°	687.7	685.8	687.7	689.0	689.0	688.3	682.4	677.8	676.5	676.5	672.6
25°	671.2	669.2	671.2	671.2	670.5	671.2	669.2	666.5	664.6	662.6	658.6
27.5°	655.3	654.0	655.3	654.0	655.3	653.3	652.6	652.0	649.4	647.4	642.1
30°	639.4	638.1	639.4	638.1	636.8	635.5	632.1	630.8	633.5	632.1	623.5
32.5°	619.6	618.3	619.6	619.6	618.3	618.3	613.0	611.0	611.7	615.7	607.7
35°	599.1	597.1	599.1	598.4	599.1	597.1	593.8	593.2	590.5	595.1	589.2
37.5°	575.3	573.4	575.3	575.3	575.3	576.6	574.0	572.0	568.0	574.0	569.3
40°	550.9	548.2	550.9	550.2	550.9	552.2	550.9	549.5	545.6	550.2	546.2
42.5°	523.1	522.4	523.1	523.8	523.8	526.3	528.4	525.7	524.4	521.1	523.8
45°	493.3	492.0	493.3	494.6	495.3	496.6	502.6	502.6	500.6	495.3	499.2
47.5°	461.5	458.3	461.5	465.5	465.5	467.6	473.5	478.1	474.8	468.2	470.1
50°	427.8	428.5	427.8	430.5	430.5	437.8	442.4	447.1	450.3	442.4	433.1
52.5°	394.8	394.1	394.8	396.8	399.4	402.7	410.7	415.3	420.5	415.9	401.4
55°	361.7	363.0	361.7	362.4	363.7	365.7	377.5	382.2	392.1	386.2	370.9
57.5°	328.6	326.7	328.6	330.0	330.6	332.6	342.5	351.1	357.1	357.7	339.2
60°	290.3	287.6	290.3	296.3	297.6	298.9	308.1	316.1	321.3	323.3	304.2
62.5°	256.6	251.9	256.6	260.5	263.2	266.5	273.1	285.1	289.6	290.3	263.2
65°	220.9	218.9	220.9	228.8	229.4	233.4	240.7	249.3	259.2	257.9	218.9
67.5°	188.4	188.4	188.4	193.7	197.7	199.7	208.9	213.0	225.5	226.8	182.5
70°	158.7	158.1	158.7	162.7	165.4	170.0	178.6	183.2	193.1	196.4	148.1
72.5°	130.3	129.6	130.3	133.6	136.3	140.2	147.5	152.7	161.3	165.4	115.1
75°	105.1	103.8	105.1	107.8	107.1	112.4	118.3	123.6	131.6	134.2	85.3
77.5°	80.7	80.7	80.7	83.3	83.3	88.6	91.3	97.9	102.5	106.5	62.8
80°	60.1	59.6	60.1	60.8	60.8	63.5	68.1	72.8	76.7	76.7	43.0
82.5°	42.3	41.0	42.3	42.3	42.3	43.7	46.2	47.6	50.3	52.3	27.1
85°	26.4	26.4	26.4	27.1	26.4	27.8	28.4	29.8	29.8	28.4	16.6
87.5°	17.2	16.6	17.2	16.6	16.6	15.9	15.9	15.9	15.2	14.6	9.3
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: P934683

CATALOG NUMBER: SQ4-FA-075U-050D-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: P934683

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	708.8	704.9	704.9	698.3	695.6	693.7	690.4	680.4	677.8	675.1	679.2
5°	714.8	707.6	702.2	690.4	680.4	676.5	663.9	640.1	624.2	612.3	605.7
7.5°	716.1	706.9	697.0	678.5	654.6	644.1	605.7	562.1	550.2	539.6	532.9
10°	714.8	704.2	690.4	662.6	606.4	587.9	549.5	521.1	513.8	511.8	513.8
12.5°	710.2	700.3	681.1	634.8	556.1	543.6	521.1	504.5	503.3	506.5	524.4
15°	702.2	693.0	670.5	597.8	528.4	519.1	503.3	497.2	504.5	527.7	581.2
17.5°	694.3	683.8	656.0	561.4	507.2	500.6	489.4	501.3	542.2	573.4	591.2
20°	683.8	671.2	639.4	535.0	492.0	486.0	480.8	534.3	565.4	576.6	586.6
22.5°	671.2	658.0	616.9	516.5	476.1	471.5	474.8	552.9	565.4	573.4	581.9
25°	654.6	643.4	590.5	501.9	463.5	458.3	470.8	550.9	558.1	560.0	577.3
27.5°	639.4	624.9	562.7	488.7	448.3	446.4	474.2	542.2	547.5	549.5	568.0
30°	620.9	599.1	531.7	474.8	432.5	431.8	474.8	531.7	530.4	535.6	554.1
32.5°	601.8	560.7	496.6	457.6	417.3	416.6	470.1	515.8	514.5	521.7	535.6
35°	583.9	531.0	449.0	437.8	398.0	398.7	458.9	497.2	497.9	504.5	513.1
37.5°	565.4	505.2	396.8	415.9	379.6	379.6	443.7	480.1	478.8	480.8	492.6
40°	543.6	464.9	350.4	387.5	362.4	360.4	425.2	461.5	456.9	456.3	472.8
42.5°	520.4	420.5	316.1	349.8	342.5	339.9	402.7	439.1	430.5	432.5	453.7
45°	495.3	408.7	289.6	295.6	322.0	320.1	378.2	413.3	407.3	412.6	434.4
47.5°	470.1	384.8	281.0	245.3	300.2	299.5	351.1	388.2	384.8	390.2	413.3
50°	435.8	358.4	280.4	210.3	275.8	278.3	318.8	363.7	363.7	368.4	392.8
52.5°	391.4	326.0	254.6	190.4	247.3	255.3	290.3	342.5	343.8	348.5	370.3
55°	351.1	292.3	236.0	175.2	213.6	230.8	262.5	320.7	323.3	327.9	347.9
57.5°	314.1	243.3	232.1	157.4	182.5	199.1	238.0	299.5	300.8	304.9	324.0
60°	274.4	175.9	213.0	138.2	155.4	167.9	215.5	274.4	279.0	281.7	298.3
62.5°	229.4	127.6	193.1	125.0	142.2	144.8	197.1	250.6	256.6	258.5	268.5
65°	163.4	107.1	164.0	113.8	128.3	129.0	177.2	226.2	231.4	234.8	242.1
67.5°	110.4	87.3	125.0	103.1	117.7	118.3	158.1	197.7	205.0	207.7	212.3
70°	76.7	58.2	92.6	91.9	105.8	107.1	137.5	172.0	178.6	180.5	183.2
72.5°	56.2	46.9	76.7	82.6	93.3	94.6	116.3	142.9	149.5	151.4	152.7
75°	43.0	49.6	62.1	72.1	79.4	80.0	95.2	116.3	121.0	122.4	123.0
77.5°	34.4	46.2	45.7	58.2	64.8	63.5	74.7	89.9	93.9	93.9	93.9
80°	25.8	36.4	34.4	41.7	47.6	46.2	53.5	64.2	65.5	66.8	66.2
82.5°	19.1	23.2	23.2	26.4	31.7	30.5	35.7	41.7	41.7	41.7	43.0
85°	11.9	13.2	10.6	13.9	17.8	17.2	19.8	22.5	23.2	23.2	21.8
87.5°	7.3	5.9	3.4	5.3	7.9	7.9	9.3	10.0	9.3	9.3	9.3
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: P934683

CATALOG NUMBER: SQ4-FA-075U-050D-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: P934683

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	674.5	672.6	675.1	667.9	675.1	672.6	674.5	679.2	675.1	677.8	680.4
5°	591.8	588.5	578.0	569.3	578.0	588.5	591.8	605.7	612.3	624.2	640.1
7.5°	529.0	526.3	523.8	518.4	523.8	526.3	529.0	532.9	539.6	550.2	562.1
10°	515.1	515.8	519.7	519.1	519.7	515.8	515.1	513.8	511.8	513.8	521.1
12.5°	550.9	556.8	578.6	577.3	578.6	556.8	550.9	524.4	506.5	503.3	504.5
15°	591.8	593.8	598.4	599.1	598.4	593.8	591.8	581.2	527.7	504.5	497.2
17.5°	595.8	596.4	599.8	599.8	599.8	596.4	595.8	591.2	573.4	542.2	501.3
20°	592.5	593.8	600.5	601.8	600.5	593.8	592.5	586.6	576.6	565.4	534.3
22.5°	591.2	593.8	599.1	598.4	599.1	593.8	591.2	581.9	573.4	565.4	552.9
25°	584.6	584.6	585.2	585.9	585.2	584.6	584.6	577.3	560.0	558.1	550.9
27.5°	570.7	572.0	575.9	575.3	575.9	572.0	570.7	568.0	549.5	547.5	542.2
30°	558.1	556.8	553.4	550.9	553.4	556.8	558.1	554.1	535.6	530.4	531.7
32.5°	537.0	533.6	530.4	528.4	530.4	533.6	537.0	535.6	521.7	514.5	515.8
35°	511.8	512.5	511.8	509.9	511.8	512.5	511.8	513.1	504.5	497.9	497.2
37.5°	494.0	495.3	494.6	492.0	494.6	495.3	494.0	492.6	480.8	478.8	480.1
40°	475.4	476.1	475.4	473.5	475.4	476.1	475.4	472.8	456.3	456.9	461.5
42.5°	457.6	456.9	454.9	453.7	454.9	456.9	457.6	453.7	432.5	430.5	439.1
45°	437.1	437.8	433.7	431.8	433.7	437.8	437.1	434.4	412.6	407.3	413.3
47.5°	416.6	416.6	413.3	411.3	413.3	416.6	416.6	413.3	390.2	384.8	388.2
50°	394.8	394.1	389.5	388.8	389.5	394.1	394.8	392.8	368.4	363.7	363.7
52.5°	369.7	369.7	370.3	371.6	370.3	369.7	369.7	370.3	348.5	343.8	342.5
55°	347.9	348.5	353.1	354.5	353.1	348.5	347.9	347.9	327.9	323.3	320.7
57.5°	325.4	325.4	328.6	328.6	328.6	325.4	325.4	324.0	304.9	300.8	299.5
60°	299.5	300.8	303.5	302.9	303.5	300.8	299.5	298.3	281.7	279.0	274.4
62.5°	272.4	273.8	274.4	273.1	274.4	273.8	272.4	268.5	258.5	256.6	250.6
65°	244.0	245.3	246.0	244.6	246.0	245.3	244.0	242.1	234.8	231.4	226.2
67.5°	214.9	214.3	213.6	216.2	213.6	214.3	214.9	212.3	207.7	205.0	197.7
70°	185.2	185.2	184.5	185.9	184.5	185.2	185.2	183.2	180.5	178.6	172.0
72.5°	153.4	152.7	155.4	153.4	155.4	152.7	153.4	152.7	151.4	149.5	142.9
75°	122.4	123.6	122.4	124.3	122.4	123.6	122.4	123.0	122.4	121.0	116.3
77.5°	93.3	94.6	93.3	93.3	93.3	94.6	93.3	93.9	93.9	93.9	89.9
80°	66.2	65.5	65.5	64.8	65.5	65.5	66.2	66.2	66.8	65.5	64.2
82.5°	42.3	41.7	41.7	43.0	41.7	41.7	42.3	43.0	41.7	41.7	41.7
85°	23.2	23.8	22.5	22.5	22.5	23.8	23.2	21.8	23.2	23.2	22.5
87.5°	8.6	7.9	7.9	7.9	7.9	7.9	8.6	9.3	9.3	9.3	10.0
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



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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



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	699.0	699.0	699.0	699.0	699.0
2.5°	690.4	693.7	695.6	698.3	704.9
5°	663.9	676.5	680.4	690.4	702.2
7.5°	605.7	644.1	654.6	678.5	697.0
10°	549.5	587.9	606.4	662.6	690.4
12.5°	521.1	543.6	556.1	634.8	681.1
15°	503.3	519.1	528.4	597.8	670.5
17.5°	489.4	500.6	507.2	561.4	656.0
20°	480.8	486.0	492.0	535.0	639.4
22.5°	474.8	471.5	476.1	516.5	616.9
25°	470.8	458.3	463.5	501.9	590.5
27.5°	474.2	446.4	448.3	488.7	562.7
30°	474.8	431.8	432.5	474.8	531.7
32.5°	470.1	416.6	417.3	457.6	496.6
35°	458.9	398.7	398.0	437.8	449.0
37.5°	443.7	379.6	379.6	415.9	396.8
40°	425.2	360.4	362.4	387.5	350.4
42.5°	402.7	339.9	342.5	349.8	316.1
45°	378.2	320.1	322.0	295.6	289.6
47.5°	351.1	299.5	300.2	245.3	281.0
50°	318.8	278.3	275.8	210.3	280.4
52.5°	290.3	255.3	247.3	190.4	254.6
55°	262.5	230.8	213.6	175.2	236.0
57.5°	238.0	199.1	182.5	157.4	232.1
60°	215.5	167.9	155.4	138.2	213.0
62.5°	197.1	144.8	142.2	125.0	193.1
65°	177.2	129.0	128.3	113.8	164.0
67.5°	158.1	118.3	117.7	103.1	125.0
70°	137.5	107.1	105.8	91.9	92.6
72.5°	116.3	94.6	93.3	82.6	76.7
75°	95.2	80.0	79.4	72.1	62.1
77.5°	74.7	63.5	64.8	58.2	45.7
80°	53.5	46.2	47.6	41.7	34.4
82.5°	35.7	30.5	31.7	26.4	23.2
85°	19.8	17.2	17.8	13.9	10.6
87.5°	9.3	7.9	7.9	5.3	3.4
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: P934683

CATALOG NUMBER: SQ4-FA-075U-050D-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: P934683

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	10.07	10.84	11.13	11.89	13.33	12.87	13.63	13.92	14.69	16.12
	3H	10.54	11.23	11.60	12.29	13.74	14.20	14.88	15.26	15.95	17.40
	4H	10.73	11.38	11.80	12.44	13.90	14.63	15.28	15.71	16.35	17.80
	6H	10.84	11.44	11.93	12.51	13.98	14.90	15.50	15.99	16.57	18.04
	8H	10.84	11.41	11.93	12.50	13.96	14.97	15.54	16.06	16.63	18.09
	12H	10.81	11.35	11.90	12.43	13.92	15.00	15.54	16.09	16.62	18.11
4H	2H	11.09	11.73	12.17	12.80	14.26	13.27	13.92	14.35	14.99	16.44
	3H	12.10	12.64	13.19	13.74	15.21	14.76	15.30	15.84	16.39	17.86
	4H	12.37	12.87	13.47	13.96	15.45	15.27	15.77	16.37	16.85	18.35
	6H	12.49	12.92	13.60	14.03	15.51	15.62	16.05	16.73	17.16	18.64
	8H	12.50	12.90	13.60	14.00	15.50	15.72	16.12	16.83	17.22	18.72
	12H	12.46	12.82	13.58	13.93	15.44	15.77	16.13	16.89	17.24	18.75
8H	4H	12.82	13.21	13.92	14.31	15.81	15.39	15.79	16.49	16.89	18.39
	6H	13.07	13.40	14.20	14.54	16.04	15.81	16.14	16.94	17.29	18.78
	8H	13.11	13.40	14.25	14.53	16.04	15.96	16.25	17.09	17.37	18.89
	12H	13.09	13.35	14.23	14.47	16.02	16.05	16.30	17.18	17.42	18.98
12H	4H	12.82	13.17	13.94	14.29	15.79	15.35	15.71	16.47	16.82	18.33
	6H	13.13	13.42	14.26	14.54	16.06	15.81	16.10	16.94	17.22	18.74
	8H	13.19	13.45	14.33	14.57	16.12	15.96	16.22	17.10	17.34	18.89