

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: P934632

Luminaire Tested: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934632
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-92765-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

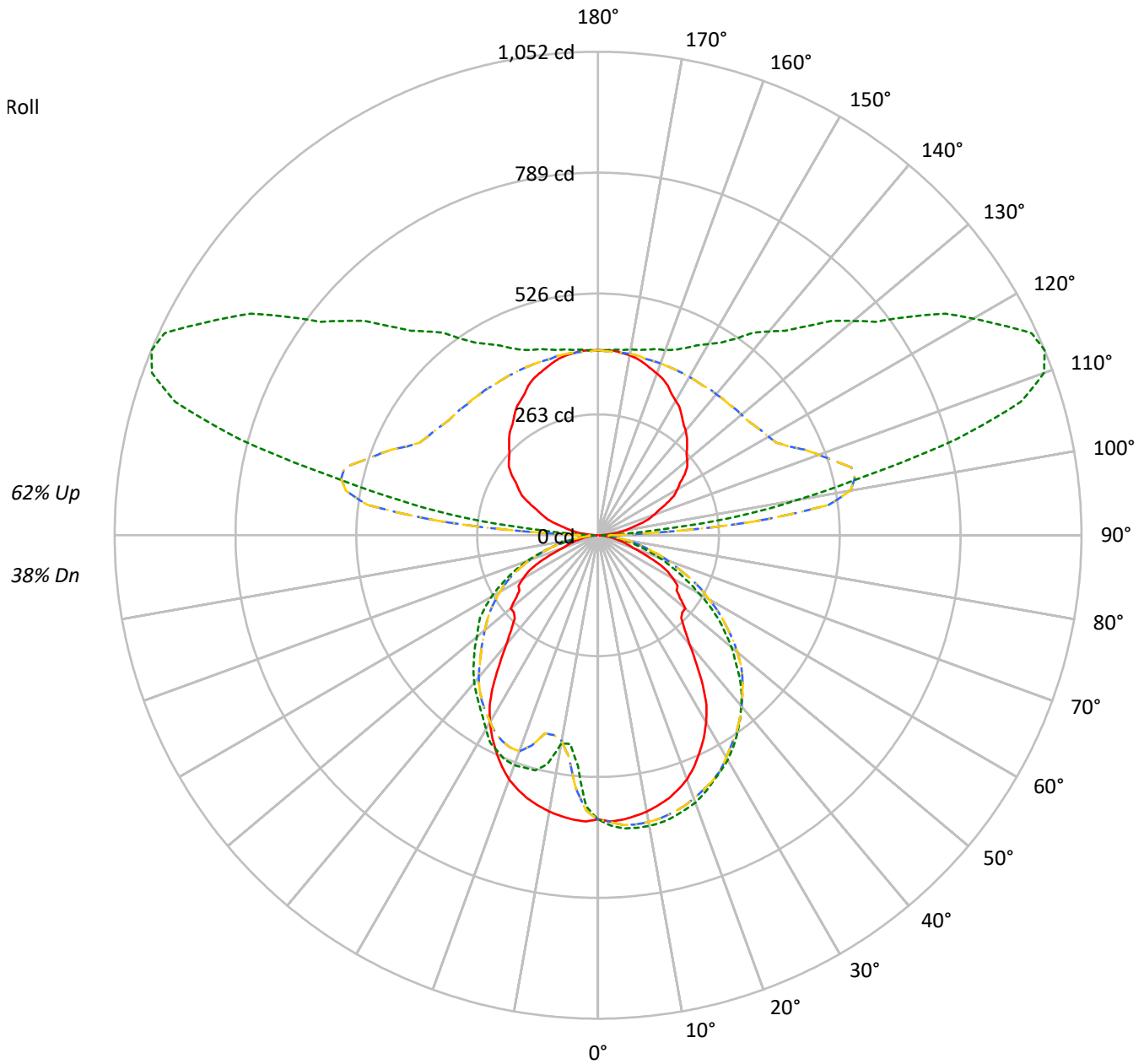
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4215.4 lumens
Efficiency: N/A
Efficacy: 122.5 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 (A_{in}): 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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5736	5736	5736	5736
5°	5773	5790	5773	4553
10°	5728	5704	5728	4078
15°	5659	5581	5659	4659
20°	5534	5433	5534	4669
25°	5286	5220	5286	4571
30°	4966	5043	4966	4353
35°	4421	4819	4421	4114
40°	3677	4556	3677	3935
45°	3279	4246	3279	3727
50°	3477	3878	3477	3518
55°	3261	3481	3261	3398
60°	3351	2956	3351	3113
65°	3022	2444	3022	2731
70°	2079	1948	2079	2290
75°	1800	1439	1800	1724
80°	1423	953	1423	1036
85°	770	504	770	429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5036 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	1.3
10°-20°	158.4	3.8
20°-30°	244.9	5.8
30°-40°	292.4	6.9
40°-50°	294.1	7.0
50°-60°	255.9	6.1
60°-70°	181.4	4.3
70°-80°	96.0	2.3
80°-90°	25.5	0.6
90°-100°	196.3	4.7
100°-110°	516.2	12.2
110°-120°	535.2	12.7
120°-130°	429.3	10.2
130°-140°	336.9	8.0
140°-150°	258.5	6.1
150°-160°	186.2	4.4
160°-170°	113.9	2.7
170°-180°	38.5	0.9
0°-30°	459.1	10.9
0°-40°	751.5	17.8
0°-60°	1301.5	30.9
0°-90°	1604.3	38.1
90°-120°	1247.7	29.6
90°-150°	2272.5	53.9
90°-180°	2611.0	61.9
0°-180°	4215.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	618	618	618	618	618	
5°	621	640	621	504	621	59
15°	593	635	593	530	593	167
25°	522	592	522	518	522	240
35°	397	528	397	451	397	246
45°	256	435	256	382	256	205
55°	209	321	209	314	209	192
65°	145	194	145	216	145	139
75°	55	92	55	110	55	58
85°	9	23	9	20	9	13
90°	3	10	3	10	3	3
95°	26	119	26	119	26	29
105°	93	808	93	808	93	99
115°	165	1041	165	1041	165	163
125°	230	829	230	829	230	204
135°	274	643	274	643	274	212
145°	318	522	318	522	318	199
155°	359	449	359	449	359	165
165°	387	418	387	418	387	109
175°	403	406	403	406	403	38
180°	403	403	403	403	403	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
2.5°	623.4	623.4	626.9	628.1	628.1	626.4	624.6	626.4	631.6	633.4	632.7
5°	621.1	625.8	632.2	633.4	634.6	634.0	632.7	634.0	639.8	640.9	641.6
7.5°	616.4	625.2	633.4	635.1	636.8	635.1	634.6	635.7	641.6	642.7	642.7
10°	610.6	622.8	632.2	633.4	635.1	633.4	633.4	635.7	641.6	642.7	643.3
12.5°	602.4	619.3	628.1	629.3	631.6	631.0	630.5	632.7	638.7	639.8	639.8
15°	593.0	612.9	621.1	622.3	626.4	625.2	625.2	627.5	634.0	635.7	635.1
17.5°	580.2	604.8	614.1	615.8	618.8	618.2	618.8	621.1	626.9	628.1	628.7
20°	565.5	593.6	604.8	606.5	609.4	609.4	609.4	612.3	618.2	620.5	620.5
22.5°	545.6	581.9	593.6	594.8	598.3	598.3	599.4	603.5	608.8	609.4	609.4
25°	522.3	569.0	578.9	582.5	586.0	587.8	589.5	591.8	593.6	593.0	593.6
27.5°	497.7	552.7	565.5	567.9	572.6	574.3	576.7	577.2	577.8	579.6	578.4
30°	470.2	529.8	549.1	551.5	559.1	560.3	557.9	559.1	562.0	563.2	564.4
32.5°	439.2	495.9	532.2	537.4	544.5	541.0	540.4	542.1	546.9	546.9	548.0
35°	397.1	469.6	516.4	521.1	526.4	522.3	524.6	525.1	528.1	529.8	529.2
37.5°	350.9	446.8	500.0	503.5	507.6	502.4	505.9	507.6	510.0	508.8	508.8
40°	309.9	411.2	480.8	483.1	486.6	482.5	486.0	487.2	488.3	487.2	486.6
42.5°	279.6	371.9	460.3	463.2	460.9	463.7	465.0	467.3	465.5	463.2	463.2
45°	256.1	361.5	438.0	441.5	438.0	442.7	444.5	444.5	439.2	438.0	437.4
47.5°	248.5	340.4	415.8	415.8	414.0	419.9	422.8	418.8	413.5	411.7	411.7
50°	248.0	317.0	385.4	383.1	391.3	398.3	395.4	391.3	387.2	380.7	380.7
52.5°	225.2	288.3	346.2	355.0	367.8	371.9	367.3	363.2	356.1	353.3	350.9
55°	208.8	258.5	310.5	328.1	341.6	346.8	338.0	333.9	323.4	321.7	320.5
57.5°	205.3	215.2	277.8	300.0	316.4	315.9	310.5	302.9	294.1	292.4	291.9
60°	188.4	155.6	242.7	269.0	285.9	284.2	279.6	272.5	264.3	263.2	262.0
62.5°	170.7	112.8	202.9	232.7	256.7	256.1	252.1	241.6	235.7	232.7	230.4
65°	145.0	94.7	144.5	193.6	228.1	229.3	220.5	212.9	206.4	202.9	202.3
67.5°	110.6	77.2	97.7	161.4	200.6	199.4	188.4	184.8	176.6	174.8	171.4
70°	81.9	51.5	67.8	131.0	173.7	170.7	162.0	157.9	150.3	146.2	143.9
72.5°	67.8	41.5	49.7	101.8	146.2	142.7	135.1	130.5	124.0	120.5	118.2
75°	54.9	43.9	38.0	75.4	118.7	116.4	109.4	104.6	99.4	94.7	95.3
77.5°	40.4	40.9	30.4	55.5	94.2	90.7	86.6	80.8	78.4	73.7	73.7
80°	30.4	32.2	22.8	38.0	67.8	67.8	64.4	60.3	56.2	53.8	53.8
82.5°	20.5	20.5	16.9	24.0	46.2	44.5	42.1	40.9	38.6	37.4	37.4
85°	9.3	11.7	10.6	14.7	25.1	26.3	26.3	25.1	24.6	23.4	24.0
87.5°	3.0	5.2	6.5	8.2	12.9	13.4	14.0	14.0	14.0	14.7	14.7
90°	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.3	13.7	10.3	10.3
92.5°	10.8	29.2	47.5	52.1	73.3	101.6	115.7	101.4	72.8	51.4	49.4
95°	26.0	59.6	93.3	101.7	180.5	285.6	338.2	301.7	228.9	174.3	168.1
97.5°	44.9	74.6	104.2	111.6	243.1	418.4	506.0	483.0	437.1	402.5	390.8
100°	59.5	86.3	113.3	120.0	265.9	460.4	557.7	559.3	562.7	565.3	551.2
102.5°	71.9	97.1	122.1	128.4	276.3	473.7	572.3	601.6	660.2	704.2	692.1
105°	93.0	114.2	135.5	140.8	284.1	475.2	570.7	636.4	767.8	866.4	859.9
107.5°	114.6	134.5	154.3	159.2	285.6	454.0	538.2	629.9	813.2	950.7	952.3
110°	129.2	147.1	165.1	169.5	283.4	435.2	511.2	613.7	818.6	972.3	979.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	143.5	160.6	177.6	181.9	283.5	418.9	486.6	591.5	801.2	958.5	968.9
115°	165.2	180.9	196.6	200.6	286.1	400.1	457.1	558.2	760.2	911.8	926.1
117.5°	186.5	200.8	215.1	218.7	291.4	388.3	436.8	528.0	710.4	847.2	863.1
120°	199.0	212.4	225.9	229.3	295.7	384.4	428.7	512.1	678.7	803.7	819.1
122.5°	211.1	224.7	238.2	241.6	301.9	382.3	422.5	497.5	647.6	760.2	775.4
125°	229.8	242.2	254.5	257.6	310.4	380.6	415.8	479.5	607.0	702.6	716.6
127.5°	245.0	257.4	269.9	273.0	318.7	379.7	410.1	464.9	574.3	656.4	668.2
130°	253.1	266.5	279.9	283.3	324.8	380.2	407.9	456.7	554.1	627.2	638.1
132.5°	261.4	274.9	288.3	291.7	329.8	380.6	406.0	449.6	536.9	602.3	612.1
135°	273.8	286.0	298.3	301.4	335.2	380.3	402.8	439.3	512.4	567.2	575.6
137.5°	286.6	298.7	310.8	313.8	343.3	382.6	402.3	433.1	494.9	541.2	548.1
140°	297.1	308.3	319.4	322.2	348.3	383.0	400.4	427.0	480.3	520.3	526.8
142.5°	305.2	315.5	325.8	328.4	352.4	384.4	400.4	423.8	470.6	505.8	511.4
145°	317.6	326.7	335.6	337.9	357.8	384.4	397.6	416.8	455.1	483.9	488.1
147.5°	330.1	338.8	347.6	349.8	365.7	387.0	397.6	412.7	442.9	465.5	469.0
150°	338.2	346.1	354.0	356.1	369.9	388.4	397.6	410.4	435.8	454.9	457.7
152.5°	346.5	352.6	358.6	360.1	372.6	389.3	397.6	408.5	430.3	446.6	448.7
155°	359.0	363.5	367.8	369.0	378.5	391.3	397.6	406.3	423.5	436.5	437.9
157.5°	368.2	372.5	376.9	377.9	384.5	393.3	397.6	404.4	417.8	427.9	428.9
160°	374.4	377.8	381.1	382.0	387.2	394.2	397.6	403.4	415.0	423.6	424.2
162.5°	380.6	383.2	385.7	386.3	390.1	395.1	397.6	402.5	412.2	419.5	420.1
165°	387.4	389.6	391.9	392.5	394.2	396.5	397.6	401.1	408.1	413.3	414.0
167.5°	393.5	394.6	395.7	396.0	397.5	399.4	400.4	402.6	407.2	410.6	410.9
170°	397.6	398.7	399.8	400.1	400.2	400.3	400.4	402.6	407.2	410.6	410.6
172.5°	399.8	400.1	400.3	400.4	400.4	400.4	400.4	402.2	405.8	408.5	408.3
175°	402.8	402.8	402.8	402.8	402.0	400.9	400.4	401.5	403.8	405.5	405.5
177.5°	402.8	402.8	402.8	402.8	402.2	401.3	400.9	401.7	403.6	405.0	404.7
180°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
2.5°	634.0	632.2	634.0	632.7	633.4	631.6	626.4	624.6	626.4	628.1	628.1
5°	641.6	640.4	641.6	641.6	640.9	639.8	634.0	632.7	634.0	634.6	633.4
7.5°	643.9	642.2	643.9	642.7	642.7	641.6	635.7	634.6	635.1	636.8	635.1
10°	643.9	642.2	643.9	643.3	642.7	641.6	635.7	633.4	633.4	635.1	633.4
12.5°	640.9	639.8	640.9	639.8	639.8	638.7	632.7	630.5	631.0	631.6	629.3
15°	636.3	634.6	636.3	635.1	635.7	634.0	627.5	625.2	625.2	626.4	622.3
17.5°	629.3	626.9	629.3	628.7	628.1	626.9	621.1	618.8	618.2	618.8	615.8
20°	621.1	619.3	621.1	620.5	620.5	618.2	612.3	609.4	609.4	609.4	606.5
22.5°	608.2	606.5	608.2	609.4	609.4	608.8	603.5	599.4	598.3	598.3	594.8
25°	593.6	591.8	593.6	593.6	593.0	593.6	591.8	589.5	587.8	586.0	582.5
27.5°	579.6	578.4	579.6	578.4	579.6	577.8	577.2	576.7	574.3	572.6	567.9
30°	565.5	564.4	565.5	564.4	563.2	562.0	559.1	557.9	560.3	559.1	551.5
32.5°	548.0	546.9	548.0	548.0	546.9	546.9	542.1	540.4	541.0	544.5	537.4
35°	529.8	528.1	529.8	529.2	529.8	528.1	525.1	524.6	522.3	526.4	521.1
37.5°	508.8	507.1	508.8	508.8	508.8	510.0	507.6	505.9	502.4	507.6	503.5
40°	487.2	484.9	487.2	486.6	487.2	488.3	487.2	486.0	482.5	486.6	483.1
42.5°	462.6	462.0	462.6	463.2	463.2	465.5	467.3	465.0	463.7	460.9	463.2
45°	436.3	435.1	436.3	437.4	438.0	439.2	444.5	444.5	442.7	438.0	441.5
47.5°	408.2	405.3	408.2	411.7	411.7	413.5	418.8	422.8	419.9	414.0	415.8
50°	378.4	379.0	378.4	380.7	380.7	387.2	391.3	395.4	398.3	391.3	383.1
52.5°	349.2	348.6	349.2	350.9	353.3	356.1	363.2	367.3	371.9	367.8	355.0
55°	319.9	321.1	319.9	320.5	321.7	323.4	333.9	338.0	346.8	341.6	328.1
57.5°	290.6	288.9	290.6	291.9	292.4	294.1	302.9	310.5	315.9	316.4	300.0
60°	256.7	254.4	256.7	262.0	263.2	264.3	272.5	279.6	284.2	285.9	269.0
62.5°	226.9	222.8	226.9	230.4	232.7	235.7	241.6	252.1	256.1	256.7	232.7
65°	195.3	193.6	195.3	202.3	202.9	206.4	212.9	220.5	229.3	228.1	193.6
67.5°	166.6	166.6	166.6	171.4	174.8	176.6	184.8	188.4	199.4	200.6	161.4
70°	140.4	139.8	140.4	143.9	146.2	150.3	157.9	162.0	170.7	173.7	131.0
72.5°	115.2	114.6	115.2	118.2	120.5	124.0	130.5	135.1	142.7	146.2	101.8
75°	93.0	91.8	93.0	95.3	94.7	99.4	104.6	109.4	116.4	118.7	75.4
77.5°	71.3	71.3	71.3	73.7	73.7	78.4	80.8	86.6	90.7	94.2	55.5
80°	53.2	52.7	53.2	53.8	53.8	56.2	60.3	64.4	67.8	67.8	38.0
82.5°	37.4	36.3	37.4	37.4	37.4	38.6	40.9	42.1	44.5	46.2	24.0
85°	23.4	23.4	23.4	24.0	23.4	24.6	25.1	26.3	26.3	25.1	14.7
87.5°	15.2	14.7	15.2	14.7	14.7	14.0	14.0	14.0	13.4	12.9	8.2
90°	10.3	10.3	10.3	10.3	10.3	13.7	18.3	20.6	17.7	11.9	7.6
92.5°	41.2	33.0	41.2	49.4	51.4	72.8	101.4	115.7	101.6	73.3	52.1
95°	143.4	118.7	143.4	168.1	174.3	228.9	301.7	338.2	285.6	180.5	101.7
97.5°	343.7	296.6	343.7	390.8	402.5	437.1	483.0	506.0	418.4	243.1	111.6
100°	495.1	439.0	495.1	551.2	565.3	562.7	559.3	557.7	460.4	265.9	120.0
102.5°	644.1	596.0	644.1	692.1	704.2	660.2	601.6	572.3	473.7	276.3	128.4
105°	834.1	808.3	834.1	859.9	866.4	767.8	636.4	570.7	475.2	284.1	140.8
107.5°	958.5	964.8	958.5	952.3	950.7	813.2	629.9	538.2	454.0	285.6	159.2
110°	1006.0	1032.9	1006.0	979.0	972.3	818.6	613.7	511.2	435.2	283.4	169.5



TEST NUMBER: P934632

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1010.3	1051.6	1010.3	968.9	958.5	801.2	591.5	486.6	418.9	283.5	181.9
115°	983.5	1040.8	983.5	926.1	911.8	760.2	558.2	457.1	400.1	286.1	200.6
117.5°	926.6	990.2	926.6	863.1	847.2	710.4	528.0	436.8	388.3	291.4	218.7
120°	880.8	942.6	880.8	819.1	803.7	678.7	512.1	428.7	384.4	295.7	229.3
122.5°	836.3	897.2	836.3	775.4	760.2	647.6	497.5	422.5	382.3	301.9	241.6
125°	772.7	828.8	772.7	716.6	702.6	607.0	479.5	415.8	380.6	310.4	257.6
127.5°	715.5	762.9	715.5	668.2	656.4	574.3	464.9	410.1	379.7	318.7	273.0
130°	681.8	725.5	681.8	638.1	627.2	554.1	456.7	407.9	380.2	324.8	283.3
132.5°	651.2	690.4	651.2	612.1	602.3	536.9	449.6	406.0	380.6	329.8	291.7
135°	609.4	643.1	609.4	575.6	567.2	512.4	439.3	402.8	380.3	335.2	301.4
137.5°	575.7	603.4	575.7	548.1	541.2	494.9	433.1	402.3	382.6	343.3	313.8
140°	552.7	578.5	552.7	526.8	520.3	480.3	427.0	400.4	383.0	348.3	322.2
142.5°	533.5	555.7	533.5	511.4	505.8	470.6	423.8	400.4	384.4	352.4	328.4
145°	504.9	521.7	504.9	488.1	483.9	455.1	416.8	397.6	384.4	357.8	337.9
147.5°	482.9	496.9	482.9	469.0	465.5	442.9	412.7	397.6	387.0	365.7	349.8
150°	469.1	480.4	469.1	457.7	454.9	435.8	410.4	397.6	388.4	369.9	356.1
152.5°	457.2	465.8	457.2	448.7	446.6	430.3	408.5	397.6	389.3	372.6	360.1
155°	443.6	449.3	443.6	437.9	436.5	423.5	406.3	397.6	391.3	378.5	369.0
157.5°	432.9	436.8	432.9	428.9	427.9	417.8	404.4	397.6	393.3	384.5	377.9
160°	426.4	428.7	426.4	424.2	423.6	415.0	403.4	397.6	394.2	387.2	382.0
162.5°	422.2	424.4	422.2	420.1	419.5	412.2	402.5	397.6	395.1	390.1	386.3
165°	416.2	418.5	416.2	414.0	413.3	408.1	401.1	397.6	396.5	394.2	392.5
167.5°	411.9	412.8	411.9	410.9	410.6	407.2	402.6	400.4	399.4	397.5	396.0
170°	410.6	410.6	410.6	410.6	410.6	407.2	402.6	400.4	400.3	400.2	400.1
172.5°	407.4	406.5	407.4	408.3	408.5	405.8	402.2	400.4	400.4	400.4	400.4
175°	405.5	405.5	405.5	405.5	405.5	403.8	401.5	400.4	400.9	402.0	402.8
177.5°	403.8	402.8	403.8	404.7	405.0	403.6	401.7	400.9	401.3	402.2	402.8
180°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8



TEST NUMBER: P934632

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
2.5°	626.9	623.4	623.4	617.6	615.2	613.5	610.6	601.8	599.4	597.1	600.7
5°	632.2	625.8	621.1	610.6	601.8	598.3	587.1	566.1	552.1	541.5	535.7
7.5°	633.4	625.2	616.4	600.0	578.9	569.6	535.7	497.1	486.6	477.3	471.3
10°	632.2	622.8	610.6	586.0	536.3	519.9	486.0	460.9	454.4	452.7	454.4
12.5°	628.1	619.3	602.4	561.4	491.8	480.8	460.9	446.2	445.1	448.0	463.7
15°	621.1	612.9	593.0	528.7	467.3	459.1	445.1	439.8	446.2	466.7	514.1
17.5°	614.1	604.8	580.2	496.5	448.6	442.7	432.8	443.3	479.5	507.1	522.9
20°	604.8	593.6	565.5	473.2	435.1	429.8	425.2	472.6	500.0	510.0	518.8
22.5°	593.6	581.9	545.6	456.8	421.1	417.0	419.9	488.9	500.0	507.1	514.7
25°	578.9	569.0	522.3	443.9	409.9	405.3	416.4	487.2	493.6	495.3	510.6
27.5°	565.5	552.7	497.7	432.2	396.5	394.8	419.4	479.5	484.2	486.0	502.4
30°	549.1	529.8	470.2	419.9	382.5	381.9	419.9	470.2	469.1	473.7	490.1
32.5°	532.2	495.9	439.2	404.7	369.0	368.4	415.8	456.2	455.0	461.4	473.7
35°	516.4	469.6	397.1	387.2	352.0	352.7	405.8	439.8	440.4	446.2	453.8
37.5°	500.0	446.8	350.9	367.8	335.7	335.7	392.4	424.6	423.5	425.2	435.7
40°	480.8	411.2	309.9	342.7	320.5	318.7	376.0	408.2	404.1	403.6	418.1
42.5°	460.3	371.9	279.6	309.4	302.9	300.6	356.1	388.3	380.7	382.5	401.2
45°	438.0	361.5	256.1	261.4	284.8	283.1	334.5	365.6	360.2	364.9	384.2
47.5°	415.8	340.4	248.5	217.0	265.5	264.9	310.5	343.3	340.4	345.1	365.6
50°	385.4	317.0	248.0	186.0	243.9	246.2	281.9	321.7	321.7	325.8	347.4
52.5°	346.2	288.3	225.2	168.4	218.7	225.8	256.7	302.9	304.1	308.2	327.5
55°	310.5	258.5	208.8	155.0	188.9	204.1	232.1	283.7	285.9	290.0	307.7
57.5°	277.8	215.2	205.3	139.2	161.4	176.1	210.5	264.9	266.1	269.6	286.6
60°	242.7	155.6	188.4	122.3	137.4	148.5	190.6	242.7	246.8	249.1	263.8
62.5°	202.9	112.8	170.7	110.6	125.7	128.1	174.3	221.7	226.9	228.6	237.5
65°	144.5	94.7	145.0	100.6	113.5	114.1	156.7	200.0	204.7	207.6	214.1
67.5°	97.7	77.2	110.6	91.2	104.1	104.6	139.8	174.8	181.3	183.7	187.7
70°	67.8	51.5	81.9	81.3	93.6	94.7	121.6	152.1	157.9	159.7	162.0
72.5°	49.7	41.5	67.8	73.1	82.5	83.6	102.9	126.4	132.2	133.9	135.1
75°	38.0	43.9	54.9	63.7	70.2	70.7	84.2	102.9	107.0	108.2	108.7
77.5°	30.4	40.9	40.4	51.5	57.3	56.2	66.1	79.5	83.0	83.0	83.0
80°	22.8	32.2	30.4	36.9	42.1	40.9	47.4	56.8	57.9	59.0	58.5
82.5°	16.9	20.5	20.5	23.4	28.1	26.9	31.6	36.9	36.9	36.9	38.0
85°	10.6	11.7	9.3	12.3	15.8	15.2	17.5	19.9	20.5	20.5	19.3
87.5°	6.5	5.2	3.0	4.7	7.0	7.0	8.2	8.8	8.2	8.2	8.2
90°	7.1	4.9	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.3	13.7
92.5°	47.5	29.2	10.8	29.2	47.5	52.1	73.3	101.6	115.7	101.4	72.8
95°	93.3	59.6	26.0	59.6	93.3	101.7	180.5	285.6	338.2	301.7	228.9
97.5°	104.2	74.6	44.9	74.6	104.2	111.6	243.1	418.4	506.0	483.0	437.1
100°	113.3	86.3	59.5	86.3	113.3	120.0	265.9	460.4	557.7	559.3	562.7
102.5°	122.1	97.1	71.9	97.1	122.1	128.4	276.3	473.7	572.3	601.6	660.2
105°	135.5	114.2	93.0	114.2	135.5	140.8	284.1	475.2	570.7	636.4	767.8
107.5°	154.3	134.5	114.6	134.5	154.3	159.2	285.6	454.0	538.2	629.9	813.2
110°	165.1	147.1	129.2	147.1	165.1	169.5	283.4	435.2	511.2	613.7	818.6



TEST NUMBER: P934632

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	177.6	160.6	143.5	160.6	177.6	181.9	283.5	418.9	486.6	591.5	801.2
115°	196.6	180.9	165.2	180.9	196.6	200.6	286.1	400.1	457.1	558.2	760.2
117.5°	215.1	200.8	186.5	200.8	215.1	218.7	291.4	388.3	436.8	528.0	710.4
120°	225.9	212.4	199.0	212.4	225.9	229.3	295.7	384.4	428.7	512.1	678.7
122.5°	238.2	224.7	211.1	224.7	238.2	241.6	301.9	382.3	422.5	497.5	647.6
125°	254.5	242.2	229.8	242.2	254.5	257.6	310.4	380.6	415.8	479.5	607.0
127.5°	269.9	257.4	245.0	257.4	269.9	273.0	318.7	379.7	410.1	464.9	574.3
130°	279.9	266.5	253.1	266.5	279.9	283.3	324.8	380.2	407.9	456.7	554.1
132.5°	288.3	274.9	261.4	274.9	288.3	291.7	329.8	380.6	406.0	449.6	536.9
135°	298.3	286.0	273.8	286.0	298.3	301.4	335.2	380.3	402.8	439.3	512.4
137.5°	310.8	298.7	286.6	298.7	310.8	313.8	343.3	382.6	402.3	433.1	494.9
140°	319.4	308.3	297.1	308.3	319.4	322.2	348.3	383.0	400.4	427.0	480.3
142.5°	325.8	315.5	305.2	315.5	325.8	328.4	352.4	384.4	400.4	423.8	470.6
145°	335.6	326.7	317.6	326.7	335.6	337.9	357.8	384.4	397.6	416.8	455.1
147.5°	347.6	338.8	330.1	338.8	347.6	349.8	365.7	387.0	397.6	412.7	442.9
150°	354.0	346.1	338.2	346.1	354.0	356.1	369.9	388.4	397.6	410.4	435.8
152.5°	358.6	352.6	346.5	352.6	358.6	360.1	372.6	389.3	397.6	408.5	430.3
155°	367.8	363.5	359.0	363.5	367.8	369.0	378.5	391.3	397.6	406.3	423.5
157.5°	376.9	372.5	368.2	372.5	376.9	377.9	384.5	393.3	397.6	404.4	417.8
160°	381.1	377.8	374.4	377.8	381.1	382.0	387.2	394.2	397.6	403.4	415.0
162.5°	385.7	383.2	380.6	383.2	385.7	386.3	390.1	395.1	397.6	402.5	412.2
165°	391.9	389.6	387.4	389.6	391.9	392.5	394.2	396.5	397.6	401.1	408.1
167.5°	395.7	394.6	393.5	394.6	395.7	396.0	397.5	399.4	400.4	402.6	407.2
170°	399.8	398.7	397.6	398.7	399.8	400.1	400.2	400.3	400.4	402.6	407.2
172.5°	400.3	400.1	399.8	400.1	400.3	400.4	400.4	400.4	400.4	402.2	405.8
175°	402.8	402.8	402.8	402.8	402.8	402.8	402.0	400.9	400.4	401.5	403.8
177.5°	402.8	402.8	402.8	402.8	402.8	402.8	402.2	401.3	400.9	401.7	403.6
180°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8



TEST NUMBER: P934632

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
2.5°	596.6	594.8	597.1	590.7	597.1	594.8	596.6	600.7	597.1	599.4	601.8
5°	523.4	520.5	511.2	503.5	511.2	520.5	523.4	535.7	541.5	552.1	566.1
7.5°	467.8	465.5	463.2	458.5	463.2	465.5	467.8	471.3	477.3	486.6	497.1
10°	455.6	456.2	459.6	459.1	459.6	456.2	455.6	454.4	452.7	454.4	460.9
12.5°	487.2	492.4	511.7	510.6	511.7	492.4	487.2	463.7	448.0	445.1	446.2
15°	523.4	525.1	529.2	529.8	529.2	525.1	523.4	514.1	466.7	446.2	439.8
17.5°	527.0	527.5	530.5	530.5	530.5	527.5	527.0	522.9	507.1	479.5	443.3
20°	524.0	525.1	531.1	532.2	531.1	525.1	524.0	518.8	510.0	500.0	472.6
22.5°	522.9	525.1	529.8	529.2	529.8	525.1	522.9	514.7	507.1	500.0	488.9
25°	517.0	517.0	517.6	518.2	517.6	517.0	517.0	510.6	495.3	493.6	487.2
27.5°	504.7	505.9	509.4	508.8	509.4	505.9	504.7	502.4	486.0	484.2	479.5
30°	493.6	492.4	489.5	487.2	489.5	492.4	493.6	490.1	473.7	469.1	470.2
32.5°	474.9	471.9	469.1	467.3	469.1	471.9	474.9	473.7	461.4	455.0	456.2
35°	452.7	453.3	452.7	450.9	452.7	453.3	452.7	453.8	446.2	440.4	439.8
37.5°	436.9	438.0	437.4	435.1	437.4	438.0	436.9	435.7	425.2	423.5	424.6
40°	420.5	421.1	420.5	418.8	420.5	421.1	420.5	418.1	403.6	404.1	408.2
42.5°	404.7	404.1	402.4	401.2	402.4	404.1	404.7	401.2	382.5	380.7	388.3
45°	386.6	387.2	383.6	381.9	383.6	387.2	386.6	384.2	364.9	360.2	365.6
47.5°	368.4	368.4	365.6	363.7	365.6	368.4	368.4	365.6	345.1	340.4	343.3
50°	349.2	348.6	344.5	343.8	344.5	348.6	349.2	347.4	325.8	321.7	321.7
52.5°	326.9	326.9	327.5	328.7	327.5	326.9	326.9	327.5	308.2	304.1	302.9
55°	307.7	308.2	312.3	313.5	312.3	308.2	307.7	307.7	290.0	285.9	283.7
57.5°	287.8	287.8	290.6	290.6	290.6	287.8	287.8	286.6	269.6	266.1	264.9
60°	264.9	266.1	268.4	267.9	268.4	266.1	264.9	263.8	249.1	246.8	242.7
62.5°	240.9	242.2	242.7	241.6	242.7	242.2	240.9	237.5	228.6	226.9	221.7
65°	215.8	217.0	217.6	216.4	217.6	217.0	215.8	214.1	207.6	204.7	200.0
67.5°	190.1	189.5	188.9	191.2	188.9	189.5	190.1	187.7	183.7	181.3	174.8
70°	163.8	163.8	163.2	164.4	163.2	163.8	163.8	162.0	159.7	157.9	152.1
72.5°	135.7	135.1	137.4	135.7	137.4	135.1	135.7	135.1	133.9	132.2	126.4
75°	108.2	109.4	108.2	110.0	108.2	109.4	108.2	108.7	108.2	107.0	102.9
77.5°	82.5	83.6	82.5	82.5	82.5	83.6	82.5	83.0	83.0	83.0	79.5
80°	58.5	57.9	57.9	57.3	57.9	57.9	58.5	58.5	59.0	57.9	56.8
82.5°	37.4	36.9	36.9	38.0	36.9	36.9	37.4	38.0	36.9	36.9	36.9
85°	20.5	21.0	19.9	19.9	19.9	21.0	20.5	19.3	20.5	20.5	19.9
87.5°	7.6	7.0	7.0	7.0	7.0	7.0	7.6	8.2	8.2	8.2	8.8
90°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	13.7	18.3	20.6	17.7
92.5°	51.4	49.4	41.2	33.0	41.2	49.4	51.4	72.8	101.4	115.7	101.6
95°	174.3	168.1	143.4	118.7	143.4	168.1	174.3	228.9	301.7	338.2	285.6
97.5°	402.5	390.8	343.7	296.6	343.7	390.8	402.5	437.1	483.0	506.0	418.4
100°	565.3	551.2	495.1	439.0	495.1	551.2	565.3	562.7	559.3	557.7	460.4
102.5°	704.2	692.1	644.1	596.0	644.1	692.1	704.2	660.2	601.6	572.3	473.7
105°	866.4	859.9	834.1	808.3	834.1	859.9	866.4	767.8	636.4	570.7	475.2
107.5°	950.7	952.3	958.5	964.8	958.5	952.3	950.7	813.2	629.9	538.2	454.0
110°	972.3	979.0	1006.0	1032.9	1006.0	979.0	972.3	818.6	613.7	511.2	435.2



TEST NUMBER: P934632

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	958.5	968.9	1010.3	1051.6	1010.3	968.9	958.5	801.2	591.5	486.6	418.9
115°	911.8	926.1	983.5	1040.8	983.5	926.1	911.8	760.2	558.2	457.1	400.1
117.5°	847.2	863.1	926.6	990.2	926.6	863.1	847.2	710.4	528.0	436.8	388.3
120°	803.7	819.1	880.8	942.6	880.8	819.1	803.7	678.7	512.1	428.7	384.4
122.5°	760.2	775.4	836.3	897.2	836.3	775.4	760.2	647.6	497.5	422.5	382.3
125°	702.6	716.6	772.7	828.8	772.7	716.6	702.6	607.0	479.5	415.8	380.6
127.5°	656.4	668.2	715.5	762.9	715.5	668.2	656.4	574.3	464.9	410.1	379.7
130°	627.2	638.1	681.8	725.5	681.8	638.1	627.2	554.1	456.7	407.9	380.2
132.5°	602.3	612.1	651.2	690.4	651.2	612.1	602.3	536.9	449.6	406.0	380.6
135°	567.2	575.6	609.4	643.1	609.4	575.6	567.2	512.4	439.3	402.8	380.3
137.5°	541.2	548.1	575.7	603.4	575.7	548.1	541.2	494.9	433.1	402.3	382.6
140°	520.3	526.8	552.7	578.5	552.7	526.8	520.3	480.3	427.0	400.4	383.0
142.5°	505.8	511.4	533.5	555.7	533.5	511.4	505.8	470.6	423.8	400.4	384.4
145°	483.9	488.1	504.9	521.7	504.9	488.1	483.9	455.1	416.8	397.6	384.4
147.5°	465.5	469.0	482.9	496.9	482.9	469.0	465.5	442.9	412.7	397.6	387.0
150°	454.9	457.7	469.1	480.4	469.1	457.7	454.9	435.8	410.4	397.6	388.4
152.5°	446.6	448.7	457.2	465.8	457.2	448.7	446.6	430.3	408.5	397.6	389.3
155°	436.5	437.9	443.6	449.3	443.6	437.9	436.5	423.5	406.3	397.6	391.3
157.5°	427.9	428.9	432.9	436.8	432.9	428.9	427.9	417.8	404.4	397.6	393.3
160°	423.6	424.2	426.4	428.7	426.4	424.2	423.6	415.0	403.4	397.6	394.2
162.5°	419.5	420.1	422.2	424.4	422.2	420.1	419.5	412.2	402.5	397.6	395.1
165°	413.3	414.0	416.2	418.5	416.2	414.0	413.3	408.1	401.1	397.6	396.5
167.5°	410.6	410.9	411.9	412.8	411.9	410.9	410.6	407.2	402.6	400.4	399.4
170°	410.6	410.6	410.6	410.6	410.6	410.6	410.6	407.2	402.6	400.4	400.3
172.5°	408.5	408.3	407.4	406.5	407.4	408.3	408.5	405.8	402.2	400.4	400.4
175°	405.5	405.5	405.5	405.5	405.5	405.5	405.5	403.8	401.5	400.4	400.9
177.5°	405.0	404.7	403.8	402.8	403.8	404.7	405.0	403.6	401.7	400.9	401.3
180°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8



TEST NUMBER: P934632

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	618.2	618.2	618.2	618.2	618.2
2.5°	610.6	613.5	615.2	617.6	623.4
5°	587.1	598.3	601.8	610.6	621.1
7.5°	535.7	569.6	578.9	600.0	616.4
10°	486.0	519.9	536.3	586.0	610.6
12.5°	460.9	480.8	491.8	561.4	602.4
15°	445.1	459.1	467.3	528.7	593.0
17.5°	432.8	442.7	448.6	496.5	580.2
20°	425.2	429.8	435.1	473.2	565.5
22.5°	419.9	417.0	421.1	456.8	545.6
25°	416.4	405.3	409.9	443.9	522.3
27.5°	419.4	394.8	396.5	432.2	497.7
30°	419.9	381.9	382.5	419.9	470.2
32.5°	415.8	368.4	369.0	404.7	439.2
35°	405.8	352.7	352.0	387.2	397.1
37.5°	392.4	335.7	335.7	367.8	350.9
40°	376.0	318.7	320.5	342.7	309.9
42.5°	356.1	300.6	302.9	309.4	279.6
45°	334.5	283.1	284.8	261.4	256.1
47.5°	310.5	264.9	265.5	217.0	248.5
50°	281.9	246.2	243.9	186.0	248.0
52.5°	256.7	225.8	218.7	168.4	225.2
55°	232.1	204.1	188.9	155.0	208.8
57.5°	210.5	176.1	161.4	139.2	205.3
60°	190.6	148.5	137.4	122.3	188.4
62.5°	174.3	128.1	125.7	110.6	170.7
65°	156.7	114.1	113.5	100.6	145.0
67.5°	139.8	104.6	104.1	91.2	110.6
70°	121.6	94.7	93.6	81.3	81.9
72.5°	102.9	83.6	82.5	73.1	67.8
75°	84.2	70.7	70.2	63.7	54.9
77.5°	66.1	56.2	57.3	51.5	40.4
80°	47.4	40.9	42.1	36.9	30.4
82.5°	31.6	26.9	28.1	23.4	20.5
85°	17.5	15.2	15.8	12.3	9.3
87.5°	8.2	7.0	7.0	4.7	3.0
90°	11.9	7.6	7.1	4.9	2.7
92.5°	73.3	52.1	47.5	29.2	10.8
95°	180.5	101.7	93.3	59.6	26.0
97.5°	243.1	111.6	104.2	74.6	44.9
100°	265.9	120.0	113.3	86.3	59.5
102.5°	276.3	128.4	122.1	97.1	71.9
105°	284.1	140.8	135.5	114.2	93.0
107.5°	285.6	159.2	154.3	134.5	114.6
110°	283.4	169.5	165.1	147.1	129.2



TEST NUMBER: P934632

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	283.5	181.9	177.6	160.6	143.5
115°	286.1	200.6	196.6	180.9	165.2
117.5°	291.4	218.7	215.1	200.8	186.5
120°	295.7	229.3	225.9	212.4	199.0
122.5°	301.9	241.6	238.2	224.7	211.1
125°	310.4	257.6	254.5	242.2	229.8
127.5°	318.7	273.0	269.9	257.4	245.0
130°	324.8	283.3	279.9	266.5	253.1
132.5°	329.8	291.7	288.3	274.9	261.4
135°	335.2	301.4	298.3	286.0	273.8
137.5°	343.3	313.8	310.8	298.7	286.6
140°	348.3	322.2	319.4	308.3	297.1
142.5°	352.4	328.4	325.8	315.5	305.2
145°	357.8	337.9	335.6	326.7	317.6
147.5°	365.7	349.8	347.6	338.8	330.1
150°	369.9	356.1	354.0	346.1	338.2
152.5°	372.6	360.1	358.6	352.6	346.5
155°	378.5	369.0	367.8	363.5	359.0
157.5°	384.5	377.9	376.9	372.5	368.2
160°	387.2	382.0	381.1	377.8	374.4
162.5°	390.1	386.3	385.7	383.2	380.6
165°	394.2	392.5	391.9	389.6	387.4
167.5°	397.5	396.0	395.7	394.6	393.5
170°	400.2	400.1	399.8	398.7	397.6
172.5°	400.4	400.4	400.3	400.1	399.8
175°	402.0	402.8	402.8	402.8	402.8
177.5°	402.2	402.8	402.8	402.8	402.8
180°	402.8	402.8	402.8	402.8	402.8



TEST NUMBER: P934632
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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	9.65	10.41	10.70	11.47	12.90	12.44	13.21	13.50	14.27	15.70
	3H	10.12	10.80	11.18	11.87	13.32	13.77	14.46	14.83	15.52	16.97
	4H	10.30	10.95	11.38	12.02	13.48	14.20	14.85	15.28	15.92	17.38
	6H	10.42	11.01	11.50	12.08	13.55	14.48	15.07	15.56	16.14	17.61
	8H	10.41	10.98	11.50	12.07	13.53	14.54	15.11	15.63	16.20	17.66
	12H	10.38	10.92	11.48	12.00	13.49	14.58	15.11	15.67	16.20	17.68
4H	2H	10.66	11.31	11.74	12.38	13.83	12.84	13.49	13.92	14.56	16.02
	3H	11.68	12.22	12.76	13.31	14.78	14.33	14.87	15.42	15.96	17.44
	4H	11.95	12.44	13.04	13.53	15.02	14.85	15.34	15.94	16.43	17.92
	6H	12.07	12.49	13.17	13.60	15.09	15.20	15.62	16.30	16.73	18.22
	8H	12.07	12.47	13.17	13.57	15.07	15.30	15.69	16.40	16.80	18.30
	12H	12.03	12.39	13.15	13.51	15.01	15.34	15.70	16.46	16.82	18.32
8H	4H	12.39	12.79	13.49	13.89	15.39	14.96	15.36	16.07	16.46	17.96
	6H	12.65	12.97	13.77	14.12	15.61	15.39	15.72	16.51	16.86	18.36
	8H	12.69	12.97	13.82	14.10	15.62	15.53	15.82	16.66	16.95	18.46
	12H	12.67	12.92	13.80	14.04	15.59	15.62	15.87	16.76	16.99	18.55
12H	4H	12.39	12.75	13.51	13.86	15.37	14.92	15.28	16.04	16.40	17.90
	6H	12.70	12.99	13.84	14.12	15.63	15.38	15.67	16.52	16.80	18.31
	8H	12.77	13.02	13.90	14.14	15.69	15.54	15.79	16.67	16.91	18.46