

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: P935036

Luminaire Tested: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935036
REPORT IS A COMBINATION OF REPORTS P933738 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

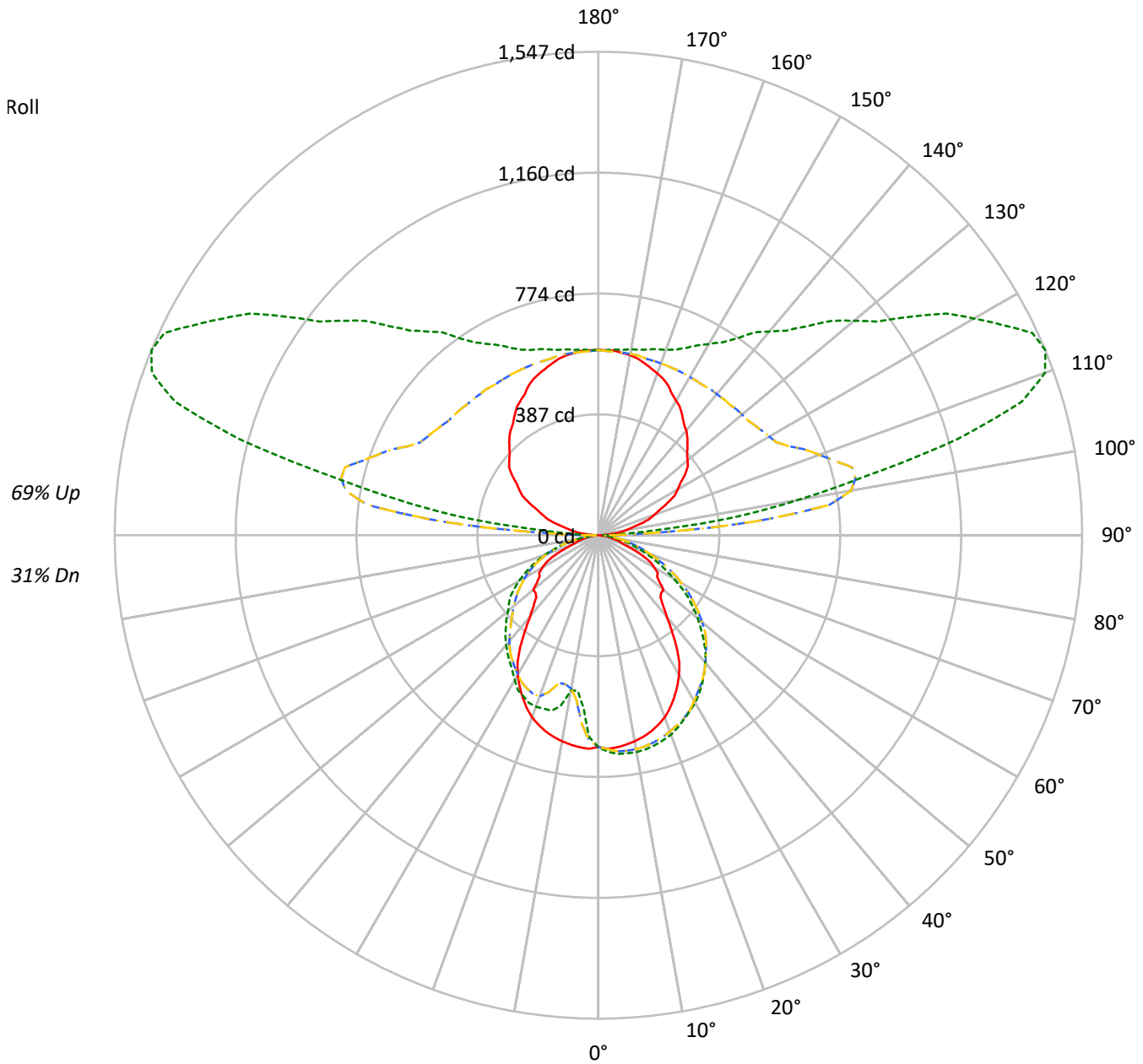
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5601.3 lumens
Efficiency: N/A
Efficacy: 136.0 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): 41.2
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: P935036
CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-6500K

Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6289	6289	6289	6289
5°	6329	6349	6329	4992
10°	6281	6254	6281	4471
15°	6205	6119	6205	5109
20°	6068	5958	6068	5120
25°	5796	5724	5796	5012
30°	5446	5529	5446	4773
35°	4848	5284	4848	4511
40°	4031	4994	4031	4314
45°	3595	4656	3595	4086
50°	3812	4252	3812	3857
55°	3575	3817	3575	3727
60°	3673	3241	3673	3412
65°	3313	2680	3313	2994
70°	2280	2136	2280	2510
75°	1974	1579	1974	1891
80°	1563	1045	1563	1135
85°	845	552	845	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5522 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	1.1
10°-20°	173.7	3.1
20°-30°	268.5	4.8
30°-40°	320.6	5.7
40°-50°	322.5	5.8
50°-60°	280.6	5.0
60°-70°	198.9	3.6
70°-80°	105.3	1.9
80°-90°	28.5	0.5
90°-100°	288.9	5.2
100°-110°	759.5	13.6
110°-120°	787.5	14.1
120°-130°	631.6	11.3
130°-140°	495.6	8.8
140°-150°	380.4	6.8
150°-160°	274.0	4.9
160°-170°	167.6	3.0
170°-180°	56.6	1.0
0°-30°	503.5	9.0
0°-40°	824.0	14.7
0°-60°	1427.1	25.5
0°-90°	1759.7	31.4
90°-120°	1835.8	32.8
90°-150°	3343.4	59.7
90°-180°	3842.0	68.6
0°-180°	5601.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	678	678	678	678	678	
5°	681	702	681	552	681	65
15°	650	696	650	581	650	183
25°	573	649	573	568	573	263
35°	436	579	436	494	436	269
45°	281	477	281	419	281	225
55°	229	352	229	344	229	210
65°	159	212	159	237	159	152
75°	60	101	60	121	60	63
85°	10	26	10	22	10	14
90°	4	15	4	15	4	4
95°	38	175	38	175	38	42
105°	137	1189	137	1189	137	145
115°	243	1531	243	1531	243	240
125°	338	1219	338	1219	338	300
135°	403	946	403	946	403	312
145°	467	768	467	768	467	293
155°	528	661	528	661	528	243
165°	570	616	570	616	570	161
175°	593	593	593	593	593	56
180°	593	593	593	593	593	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	683.6	683.6	687.4	688.7	688.7	686.8	684.9	686.8	692.6	694.5	693.8
5°	681.0	686.2	693.2	694.5	695.8	695.2	693.8	695.2	701.6	702.8	703.5
7.5°	675.9	685.5	694.5	696.4	698.3	696.4	695.8	697.1	703.5	704.7	704.7
10°	669.5	682.9	693.2	694.5	696.4	694.5	694.5	697.1	703.5	704.7	705.4
12.5°	660.5	679.1	688.7	690.0	692.6	691.9	691.3	693.8	700.3	701.6	701.6
15°	650.2	672.0	681.0	682.3	686.8	685.5	685.5	688.1	695.2	697.1	696.4
17.5°	636.2	663.1	673.4	675.3	678.5	677.8	678.5	681.0	687.4	688.7	689.4
20°	620.1	650.9	663.1	665.0	668.2	668.2	668.2	671.4	677.8	680.4	680.4
22.5°	598.3	638.1	650.9	652.2	656.0	656.0	657.3	661.8	667.5	668.2	668.2
25°	572.7	623.9	634.8	638.7	642.6	644.5	646.4	649.0	650.9	650.2	650.9
27.5°	545.7	606.0	620.1	622.7	627.8	629.7	632.3	632.9	633.6	635.5	634.2
30°	515.6	581.0	602.1	604.7	613.0	614.4	611.8	613.0	616.3	617.5	618.8
32.5°	481.6	543.8	583.6	589.3	597.0	593.2	592.6	594.5	599.6	599.6	600.9
35°	435.5	514.9	566.3	571.4	577.2	572.7	575.2	575.8	579.1	581.0	580.3
37.5°	384.8	490.0	548.3	552.1	556.6	550.9	554.7	556.6	559.2	557.9	557.9
40°	339.8	450.8	527.1	529.7	533.6	529.1	532.9	534.2	535.5	534.2	533.6
42.5°	306.6	407.8	504.7	507.9	505.3	508.5	509.8	512.4	510.4	507.9	507.9
45°	280.8	396.3	480.3	484.1	480.3	485.5	487.4	487.4	481.6	480.3	479.6
47.5°	272.5	373.2	455.9	455.9	454.0	460.4	463.7	459.2	453.4	451.4	451.4
50°	271.9	347.6	422.6	420.1	429.0	436.7	433.5	429.0	424.5	417.5	417.5
52.5°	246.9	316.1	379.6	389.3	403.3	407.8	402.7	398.3	390.5	387.4	384.8
55°	228.9	283.4	340.5	359.7	374.5	380.3	370.6	366.1	354.7	352.7	351.4
57.5°	225.1	236.0	304.6	328.9	346.9	346.3	340.5	332.2	322.5	320.6	320.0
60°	206.5	170.6	266.1	295.0	313.5	311.6	306.6	298.8	289.8	288.6	287.3
62.5°	187.2	123.7	222.5	255.2	281.5	280.8	276.4	264.9	258.5	255.2	252.6
65°	159.0	103.8	158.4	212.3	250.1	251.4	241.7	233.4	226.3	222.5	221.8
67.5°	121.2	84.6	107.1	177.0	219.9	218.7	206.5	202.6	193.6	191.7	187.9
70°	89.8	56.4	74.4	143.6	190.5	187.2	177.7	173.2	164.8	160.4	157.8
72.5°	74.4	45.5	54.5	111.6	160.4	156.4	148.1	143.0	136.0	132.1	129.6
75°	60.2	48.1	41.7	82.7	130.1	127.7	119.9	114.7	109.0	103.8	104.5
77.5°	44.3	44.8	33.4	60.9	103.3	99.4	94.9	88.5	86.0	80.8	80.8
80°	33.4	35.3	25.1	41.7	74.4	74.4	70.6	66.1	61.6	59.0	59.0
82.5°	22.5	22.5	18.6	26.3	50.7	48.8	46.2	44.8	42.4	41.0	41.0
85°	10.2	12.8	11.6	16.1	27.5	28.9	28.9	27.5	27.0	25.6	26.3
87.5°	3.3	5.7	7.1	9.0	14.2	14.7	15.4	15.4	15.4	16.1	16.1
90°	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.9	20.2	15.1	15.1
92.5°	15.9	42.9	70.0	76.8	108.0	149.5	170.2	149.2	107.1	75.5	72.6
95°	38.2	87.7	137.2	149.5	265.5	420.2	497.5	444.0	336.9	256.5	247.5
97.5°	66.0	109.7	153.4	164.3	357.7	615.6	744.5	710.6	642.9	592.2	574.9
100°	87.5	127.1	166.7	176.6	391.3	677.5	820.5	823.0	827.9	831.6	810.9
102.5°	105.8	142.8	179.7	188.9	406.7	696.9	842.0	885.1	971.4	1036.0	1018.3
105°	136.8	168.1	199.4	207.2	418.0	699.1	839.6	936.3	1129.6	1274.7	1265.2
107.5°	168.7	197.8	227.0	234.3	420.2	667.9	791.8	926.7	1196.5	1398.8	1401.1
110°	190.1	216.5	242.8	249.4	416.9	640.4	752.0	902.8	1204.4	1430.6	1440.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	211.2	236.3	261.3	267.6	417.1	616.3	715.9	870.2	1178.8	1410.3	1425.5
115°	243.0	266.1	289.2	295.1	420.9	588.7	672.6	821.3	1118.6	1341.5	1362.6
117.5°	274.4	295.5	316.5	321.8	428.8	571.4	642.8	776.9	1045.2	1246.5	1269.8
120°	292.7	312.5	332.3	337.2	435.1	565.6	630.8	753.4	998.6	1182.4	1205.2
122.5°	310.7	330.7	350.6	355.6	444.2	562.5	621.6	732.0	952.8	1118.4	1140.7
125°	338.1	356.3	374.4	379.0	456.6	559.9	611.7	705.5	893.0	1033.6	1054.3
127.5°	360.3	378.7	397.1	401.7	468.9	558.5	603.4	683.9	844.9	965.7	983.1
130°	372.2	392.0	411.8	416.8	477.9	559.5	600.2	671.9	815.3	922.7	938.8
132.5°	384.6	404.4	424.2	429.1	485.2	559.9	597.3	661.5	789.8	886.1	900.5
135°	402.9	420.9	439.0	443.5	493.2	559.5	592.6	646.4	753.8	834.4	846.8
137.5°	421.6	439.5	457.3	461.7	505.1	562.9	591.8	637.2	728.0	796.2	806.4
140°	437.1	453.5	470.0	474.1	512.4	563.5	589.0	628.2	706.7	765.6	775.1
142.5°	449.0	464.2	479.4	483.3	518.5	565.5	589.0	623.4	692.4	744.1	752.3
145°	467.3	480.6	493.8	497.1	526.5	565.6	585.1	613.3	669.6	711.9	718.1
147.5°	485.7	498.6	511.4	514.6	538.1	569.4	585.1	607.3	651.6	684.9	690.1
150°	497.5	509.2	520.8	523.8	544.3	571.5	585.1	603.8	641.2	669.3	673.4
152.5°	509.8	518.6	527.5	529.7	548.2	572.8	585.1	601.1	633.0	657.0	660.2
155°	528.2	534.7	541.3	542.9	557.0	575.7	585.1	597.8	623.2	642.3	644.4
157.5°	541.7	548.1	554.4	556.0	565.7	578.6	585.1	594.9	614.7	629.6	631.0
160°	550.9	555.8	560.7	562.0	569.7	579.9	585.1	593.6	610.5	623.2	624.1
162.5°	559.9	563.7	567.4	568.4	573.9	581.4	585.1	592.3	606.5	617.2	618.0
165°	569.9	573.2	576.6	577.4	580.0	583.4	585.1	590.3	600.5	608.1	609.0
167.5°	579.1	580.7	582.3	582.7	584.8	587.6	589.0	592.4	599.1	604.1	604.5
170°	585.1	586.6	588.2	588.6	588.7	588.9	589.0	592.4	599.1	604.1	604.1
172.5°	588.2	588.6	588.9	589.0	589.0	589.0	589.0	591.7	597.0	601.0	600.7
175°	592.6	592.6	592.6	592.6	591.4	589.8	589.0	590.7	594.1	596.6	596.6
177.5°	592.6	592.6	592.6	592.6	591.7	590.4	589.8	591.1	593.8	595.8	595.4
180°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	695.2	693.2	695.2	693.8	694.5	692.6	686.8	684.9	686.8	688.7	688.7
5°	703.5	702.2	703.5	703.5	702.8	701.6	695.2	693.8	695.2	695.8	694.5
7.5°	706.1	704.1	706.1	704.7	704.7	703.5	697.1	695.8	696.4	698.3	696.4
10°	706.1	704.1	706.1	705.4	704.7	703.5	697.1	694.5	694.5	696.4	694.5
12.5°	702.8	701.6	702.8	701.6	701.6	700.3	693.8	691.3	691.9	692.6	690.0
15°	697.7	695.8	697.7	696.4	697.1	695.2	688.1	685.5	685.5	686.8	682.3
17.5°	690.0	687.4	690.0	689.4	688.7	687.4	681.0	678.5	677.8	678.5	675.3
20°	681.0	679.1	681.0	680.4	680.4	677.8	671.4	668.2	668.2	668.2	665.0
22.5°	666.9	665.0	666.9	668.2	668.2	667.5	661.8	657.3	656.0	656.0	652.2
25°	650.9	649.0	650.9	650.9	650.2	650.9	649.0	646.4	644.5	642.6	638.7
27.5°	635.5	634.2	635.5	634.2	635.5	633.6	632.9	632.3	629.7	627.8	622.7
30°	620.1	618.8	620.1	618.8	617.5	616.3	613.0	611.8	614.4	613.0	604.7
32.5°	600.9	599.6	600.9	600.9	599.6	599.6	594.5	592.6	593.2	597.0	589.3
35°	581.0	579.1	581.0	580.3	581.0	579.1	575.8	575.2	572.7	577.2	571.4
37.5°	557.9	556.0	557.9	557.9	557.9	559.2	556.6	554.7	550.9	556.6	552.1
40°	534.2	531.6	534.2	533.6	534.2	535.5	534.2	532.9	529.1	533.6	529.7
42.5°	507.3	506.6	507.3	507.9	507.9	510.4	512.4	509.8	508.5	505.3	507.9
45°	478.4	477.1	478.4	479.6	480.3	481.6	487.4	487.4	485.5	480.3	484.1
47.5°	447.6	444.4	447.6	451.4	451.4	453.4	459.2	463.7	460.4	454.0	455.9
50°	414.9	415.6	414.9	417.5	417.5	424.5	429.0	433.5	436.7	429.0	420.1
52.5°	382.9	382.2	382.9	384.8	387.4	390.5	398.3	402.7	407.8	403.3	389.3
55°	350.7	352.1	350.7	351.4	352.7	354.7	366.1	370.6	380.3	374.5	359.7
57.5°	318.7	316.8	318.7	320.0	320.6	322.5	332.2	340.5	346.3	346.9	328.9
60°	281.5	278.9	281.5	287.3	288.6	289.8	298.8	306.6	311.6	313.5	295.0
62.5°	248.8	244.3	248.8	252.6	255.2	258.5	264.9	276.4	280.8	281.5	255.2
65°	214.2	212.3	214.2	221.8	222.5	226.3	233.4	241.7	251.4	250.1	212.3
67.5°	182.7	182.7	182.7	187.9	191.7	193.6	202.6	206.5	218.7	219.9	177.0
70°	153.9	153.3	153.9	157.8	160.4	164.8	173.2	177.7	187.2	190.5	143.6
72.5°	126.3	125.6	126.3	129.6	132.1	136.0	143.0	148.1	156.4	160.4	111.6
75°	101.9	100.7	101.9	104.5	103.8	109.0	114.7	119.9	127.7	130.1	82.7
77.5°	78.2	78.2	78.2	80.8	80.8	86.0	88.5	94.9	99.4	103.3	60.9
80°	58.3	57.8	58.3	59.0	59.0	61.6	66.1	70.6	74.4	74.4	41.7
82.5°	41.0	39.8	41.0	41.0	41.0	42.4	44.8	46.2	48.8	50.7	26.3
85°	25.6	25.6	25.6	26.3	25.6	27.0	27.5	28.9	28.9	27.5	16.1
87.5°	16.6	16.1	16.6	16.1	16.1	15.4	15.4	15.4	14.7	14.2	9.0
90°	15.1	15.1	15.1	15.1	15.1	20.2	26.9	30.2	26.0	17.5	11.1
92.5°	60.5	48.5	60.5	72.6	75.5	107.1	149.2	170.2	149.5	108.0	76.8
95°	211.0	174.6	211.0	247.5	256.5	336.9	444.0	497.5	420.2	265.5	149.5
97.5°	505.5	436.3	505.5	574.9	592.2	642.9	710.6	744.5	615.6	357.7	164.3
100°	728.4	645.9	728.4	810.9	831.6	827.9	823.0	820.5	677.5	391.3	176.6
102.5°	947.7	877.0	947.7	1018.3	1036.0	971.4	885.1	842.0	696.9	406.7	188.9
105°	1227.2	1189.2	1227.2	1265.2	1274.7	1129.6	936.3	839.6	699.1	418.0	207.2
107.5°	1410.3	1419.5	1410.3	1401.1	1398.8	1196.5	926.7	791.8	667.9	420.2	234.3
110°	1480.1	1519.7	1480.1	1440.5	1430.6	1204.4	902.8	752.0	640.4	416.9	249.4



TEST NUMBER: P935036

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1486.3	1547.1	1486.3	1425.5	1410.3	1178.8	870.2	715.9	616.3	417.1	267.6
115°	1446.9	1531.2	1446.9	1362.6	1341.5	1118.6	821.3	672.6	588.7	420.9	295.1
117.5°	1363.3	1456.9	1363.3	1269.8	1246.5	1045.2	776.9	642.8	571.4	428.8	321.8
120°	1296.0	1386.9	1296.0	1205.2	1182.4	998.6	753.4	630.8	565.6	435.1	337.2
122.5°	1230.4	1320.0	1230.4	1140.7	1118.4	952.8	732.0	621.6	562.5	444.2	355.6
125°	1136.8	1219.4	1136.8	1054.3	1033.6	893.0	705.5	611.7	559.9	456.6	379.0
127.5°	1052.8	1122.4	1052.8	983.1	965.7	844.9	683.9	603.4	558.5	468.9	401.7
130°	1003.1	1067.5	1003.1	938.8	922.7	815.3	671.9	600.2	559.5	477.9	416.8
132.5°	958.1	1015.8	958.1	900.5	886.1	789.8	661.5	597.3	559.9	485.2	429.1
135°	896.4	946.2	896.4	846.8	834.4	753.8	646.4	592.6	559.5	493.2	443.5
137.5°	847.1	887.7	847.1	806.4	796.2	728.0	637.2	591.8	562.9	505.1	461.7
140°	813.1	851.1	813.1	775.1	765.6	706.7	628.2	589.0	563.5	512.4	474.1
142.5°	785.0	817.7	785.0	752.3	744.1	692.4	623.4	589.0	565.5	518.5	483.3
145°	742.9	767.6	742.9	718.1	711.9	669.6	613.3	585.1	565.6	526.5	497.1
147.5°	710.5	731.0	710.5	690.1	684.9	651.6	607.3	585.1	569.4	538.1	514.6
150°	690.1	706.7	690.1	673.4	669.3	641.2	603.8	585.1	571.5	544.3	523.8
152.5°	672.7	685.3	672.7	660.2	657.0	633.0	601.1	585.1	572.8	548.2	529.7
155°	652.7	661.0	652.7	644.4	642.3	623.2	597.8	585.1	575.7	557.0	542.9
157.5°	636.9	642.8	636.9	631.0	629.6	614.7	594.9	585.1	578.6	565.7	556.0
160°	627.5	630.8	627.5	624.1	623.2	610.5	593.6	585.1	579.9	569.7	562.0
162.5°	621.2	624.4	621.2	618.0	617.2	606.5	592.3	585.1	581.4	573.9	568.4
165°	612.3	615.7	612.3	609.0	608.1	600.5	590.3	585.1	583.4	580.0	577.4
167.5°	605.8	607.3	605.8	604.5	604.1	599.1	592.4	589.0	587.6	584.8	582.7
170°	604.1	604.1	604.1	604.1	604.1	599.1	592.4	589.0	588.9	588.7	588.6
172.5°	599.4	598.2	599.4	600.7	601.0	597.0	591.7	589.0	589.0	589.0	589.0
175°	596.6	596.6	596.6	596.6	596.6	594.1	590.7	589.0	589.8	591.4	592.6
177.5°	594.1	592.6	594.1	595.4	595.8	593.8	591.1	589.8	590.4	591.7	592.6
180°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6



TEST NUMBER: P935036

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	687.4	683.6	683.6	677.2	674.6	672.7	669.5	659.9	657.3	654.7	658.6
5°	693.2	686.2	681.0	669.5	659.9	656.0	643.8	620.8	605.4	593.8	587.4
7.5°	694.5	685.5	675.9	658.0	634.8	624.6	587.4	545.1	533.6	523.3	516.8
10°	693.2	682.9	669.5	642.6	588.1	570.1	532.9	505.3	498.3	496.4	498.3
12.5°	688.7	679.1	660.5	615.6	539.3	527.1	505.3	489.3	488.0	491.2	508.5
15°	681.0	672.0	650.2	579.7	512.4	503.4	488.0	482.2	489.3	511.8	563.7
17.5°	673.4	663.1	636.2	544.5	491.9	485.5	474.6	486.1	525.8	556.0	573.3
20°	663.1	650.9	620.1	518.8	477.1	471.3	466.2	518.2	548.3	559.2	568.8
22.5°	650.9	638.1	598.3	500.9	461.7	457.3	460.4	536.1	548.3	556.0	564.3
25°	634.8	623.9	572.7	486.7	449.5	444.4	456.6	534.2	541.2	543.1	559.9
27.5°	620.1	606.0	545.7	473.9	434.8	432.9	459.8	525.8	531.0	532.9	550.9
30°	602.1	581.0	515.6	460.4	419.4	418.7	460.4	515.6	514.3	519.4	537.4
32.5°	583.6	543.8	481.6	443.8	404.7	404.0	455.9	500.2	498.9	505.9	519.4
35°	566.3	514.9	435.5	424.5	386.0	386.7	445.0	482.2	482.9	489.3	497.6
37.5°	548.3	490.0	384.8	403.3	368.1	368.1	430.3	465.6	464.3	466.2	477.7
40°	527.1	450.8	339.8	375.8	351.4	349.5	412.3	447.6	443.1	442.5	458.5
42.5°	504.7	407.8	306.6	339.3	332.2	329.6	390.5	425.8	417.5	419.4	439.9
45°	480.3	396.3	280.8	286.7	312.3	310.4	366.8	400.8	395.0	400.2	421.3
47.5°	455.9	373.2	272.5	237.9	291.2	290.5	340.5	376.5	373.2	378.4	400.8
50°	422.6	347.6	271.9	204.0	267.4	269.9	309.1	352.7	352.7	357.2	380.9
52.5°	379.6	316.1	246.9	184.6	239.8	247.6	281.5	332.2	333.4	337.9	359.1
55°	340.5	283.4	228.9	169.9	207.1	223.8	254.5	311.0	313.5	318.0	337.3
57.5°	304.6	236.0	225.1	152.6	177.0	193.1	230.8	290.5	291.7	295.7	314.2
60°	266.1	170.6	206.5	134.1	150.7	162.8	209.0	266.1	270.6	273.2	289.2
62.5°	222.5	123.7	187.2	121.2	137.9	140.5	191.1	243.1	248.8	250.7	260.4
65°	158.4	103.8	159.0	110.3	124.4	125.1	171.8	219.4	224.4	227.7	234.7
67.5°	107.1	84.6	121.2	100.0	114.2	114.7	153.3	191.7	198.8	201.4	205.9
70°	74.4	56.4	89.8	89.1	102.6	103.8	133.4	166.8	173.2	175.1	177.7
72.5°	54.5	45.5	74.4	80.1	90.5	91.7	112.8	138.6	145.0	146.9	148.1
75°	41.7	48.1	60.2	69.9	77.0	77.5	92.4	112.8	117.3	118.7	119.2
77.5°	33.4	44.8	44.3	56.4	62.8	61.6	72.5	87.2	91.0	91.0	91.0
80°	25.1	35.3	33.4	40.4	46.2	44.8	51.9	62.2	63.5	64.7	64.2
82.5°	18.6	22.5	22.5	25.6	30.8	29.5	34.6	40.4	40.4	40.4	41.7
85°	11.6	12.8	10.2	13.5	17.3	16.6	19.2	21.8	22.5	22.5	21.1
87.5°	7.1	5.7	3.3	5.2	7.6	7.6	9.0	9.7	9.0	9.0	9.0
90°	10.3	7.2	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.9	20.2
92.5°	70.0	42.9	15.9	42.9	70.0	76.8	108.0	149.5	170.2	149.2	107.1
95°	137.2	87.7	38.2	87.7	137.2	149.5	265.5	420.2	497.5	444.0	336.9
97.5°	153.4	109.7	66.0	109.7	153.4	164.3	357.7	615.6	744.5	710.6	642.9
100°	166.7	127.1	87.5	127.1	166.7	176.6	391.3	677.5	820.5	823.0	827.9
102.5°	179.7	142.8	105.8	142.8	179.7	188.9	406.7	696.9	842.0	885.1	971.4
105°	199.4	168.1	136.8	168.1	199.4	207.2	418.0	699.1	839.6	936.3	1129.6
107.5°	227.0	197.8	168.7	197.8	227.0	234.3	420.2	667.9	791.8	926.7	1196.5
110°	242.8	216.5	190.1	216.5	242.8	249.4	416.9	640.4	752.0	902.8	1204.4



TEST NUMBER: P935036

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	261.3	236.3	211.2	236.3	261.3	267.6	417.1	616.3	715.9	870.2	1178.8
115°	289.2	266.1	243.0	266.1	289.2	295.1	420.9	588.7	672.6	821.3	1118.6
117.5°	316.5	295.5	274.4	295.5	316.5	321.8	428.8	571.4	642.8	776.9	1045.2
120°	332.3	312.5	292.7	312.5	332.3	337.2	435.1	565.6	630.8	753.4	998.6
122.5°	350.6	330.7	310.7	330.7	350.6	355.6	444.2	562.5	621.6	732.0	952.8
125°	374.4	356.3	338.1	356.3	374.4	379.0	456.6	559.9	611.7	705.5	893.0
127.5°	397.1	378.7	360.3	378.7	397.1	401.7	468.9	558.5	603.4	683.9	844.9
130°	411.8	392.0	372.2	392.0	411.8	416.8	477.9	559.5	600.2	671.9	815.3
132.5°	424.2	404.4	384.6	404.4	424.2	429.1	485.2	559.9	597.3	661.5	789.8
135°	439.0	420.9	402.9	420.9	439.0	443.5	493.2	559.5	592.6	646.4	753.8
137.5°	457.3	439.5	421.6	439.5	457.3	461.7	505.1	562.9	591.8	637.2	728.0
140°	470.0	453.5	437.1	453.5	470.0	474.1	512.4	563.5	589.0	628.2	706.7
142.5°	479.4	464.2	449.0	464.2	479.4	483.3	518.5	565.5	589.0	623.4	692.4
145°	493.8	480.6	467.3	480.6	493.8	497.1	526.5	565.6	585.1	613.3	669.6
147.5°	511.4	498.6	485.7	498.6	511.4	514.6	538.1	569.4	585.1	607.3	651.6
150°	520.8	509.2	497.5	509.2	520.8	523.8	544.3	571.5	585.1	603.8	641.2
152.5°	527.5	518.6	509.8	518.6	527.5	529.7	548.2	572.8	585.1	601.1	633.0
155°	541.3	534.7	528.2	534.7	541.3	542.9	557.0	575.7	585.1	597.8	623.2
157.5°	554.4	548.1	541.7	548.1	554.4	556.0	565.7	578.6	585.1	594.9	614.7
160°	560.7	555.8	550.9	555.8	560.7	562.0	569.7	579.9	585.1	593.6	610.5
162.5°	567.4	563.7	559.9	563.7	567.4	568.4	573.9	581.4	585.1	592.3	606.5
165°	576.6	573.2	569.9	573.2	576.6	577.4	580.0	583.4	585.1	590.3	600.5
167.5°	582.3	580.7	579.1	580.7	582.3	582.7	584.8	587.6	589.0	592.4	599.1
170°	588.2	586.6	585.1	586.6	588.2	588.6	588.7	588.9	589.0	592.4	599.1
172.5°	588.9	588.6	588.2	588.6	588.9	589.0	589.0	589.0	589.0	591.7	597.0
175°	592.6	592.6	592.6	592.6	592.6	592.6	591.4	589.8	589.0	590.7	594.1
177.5°	592.6	592.6	592.6	592.6	592.6	592.6	591.7	590.4	589.8	591.1	593.8
180°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6



TEST NUMBER: P935036

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	654.1	652.2	654.7	647.7	654.7	652.2	654.1	658.6	654.7	657.3	659.9
5°	573.9	570.8	560.5	552.1	560.5	570.8	573.9	587.4	593.8	605.4	620.8
7.5°	513.0	510.4	507.9	502.8	507.9	510.4	513.0	516.8	523.3	533.6	545.1
10°	499.5	500.2	504.0	503.4	504.0	500.2	499.5	498.3	496.4	498.3	505.3
12.5°	534.2	540.0	561.1	559.9	561.1	540.0	534.2	508.5	491.2	488.0	489.3
15°	573.9	575.8	580.3	581.0	580.3	575.8	573.9	563.7	511.8	489.3	482.2
17.5°	577.8	578.4	581.7	581.7	581.7	578.4	577.8	573.3	556.0	525.8	486.1
20°	574.6	575.8	582.3	583.6	582.3	575.8	574.6	568.8	559.2	548.3	518.2
22.5°	573.3	575.8	581.0	580.3	581.0	575.8	573.3	564.3	556.0	548.3	536.1
25°	566.9	566.9	567.5	568.2	567.5	566.9	566.9	559.9	543.1	541.2	534.2
27.5°	553.4	554.7	558.5	557.9	558.5	554.7	553.4	550.9	532.9	531.0	525.8
30°	541.2	540.0	536.7	534.2	536.7	540.0	541.2	537.4	519.4	514.3	515.6
32.5°	520.7	517.5	514.3	512.4	514.3	517.5	520.7	519.4	505.9	498.9	500.2
35°	496.4	497.0	496.4	494.4	496.4	497.0	496.4	497.6	489.3	482.9	482.2
37.5°	479.1	480.3	479.6	477.1	479.6	480.3	479.1	477.7	466.2	464.3	465.6
40°	461.1	461.7	461.1	459.2	461.1	461.7	461.1	458.5	442.5	443.1	447.6
42.5°	443.8	443.1	441.2	439.9	441.2	443.1	443.8	439.9	419.4	417.5	425.8
45°	423.9	424.5	420.6	418.7	420.6	424.5	423.9	421.3	400.2	395.0	400.8
47.5°	404.0	404.0	400.8	398.8	400.8	404.0	404.0	400.8	378.4	373.2	376.5
50°	382.9	382.2	377.7	377.0	377.7	382.2	382.9	380.9	357.2	352.7	352.7
52.5°	358.5	358.5	359.1	360.4	359.1	358.5	358.5	359.1	337.9	333.4	332.2
55°	337.3	337.9	342.4	343.8	342.4	337.9	337.3	337.3	318.0	313.5	311.0
57.5°	315.5	315.5	318.7	318.7	318.7	315.5	315.5	314.2	295.7	291.7	290.5
60°	290.5	291.7	294.3	293.7	294.3	291.7	290.5	289.2	273.2	270.6	266.1
62.5°	264.2	265.5	266.1	264.9	266.1	265.5	264.2	260.4	250.7	248.8	243.1
65°	236.7	237.9	238.6	237.2	238.6	237.9	236.7	234.7	227.7	224.4	219.4
67.5°	208.5	207.8	207.1	209.7	207.1	207.8	208.5	205.9	201.4	198.8	191.7
70°	179.6	179.6	178.9	180.2	178.9	179.6	179.6	177.7	175.1	173.2	166.8
72.5°	148.8	148.1	150.7	148.8	150.7	148.1	148.8	148.1	146.9	145.0	138.6
75°	118.7	119.9	118.7	120.6	118.7	119.9	118.7	119.2	118.7	117.3	112.8
77.5°	90.5	91.7	90.5	90.5	90.5	91.7	90.5	91.0	91.0	91.0	87.2
80°	64.2	63.5	63.5	62.8	63.5	63.5	64.2	64.2	64.7	63.5	62.2
82.5°	41.0	40.4	40.4	41.7	40.4	40.4	41.0	41.7	40.4	40.4	40.4
85°	22.5	23.0	21.8	21.8	21.8	23.0	22.5	21.1	22.5	22.5	21.8
87.5°	8.3	7.6	7.6	7.6	7.6	7.6	8.3	9.0	9.0	9.0	9.7
90°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	20.2	26.9	30.2	26.0
92.5°	75.5	72.6	60.5	48.5	60.5	72.6	75.5	107.1	149.2	170.2	149.5
95°	256.5	247.5	211.0	174.6	211.0	247.5	256.5	336.9	444.0	497.5	420.2
97.5°	592.2	574.9	505.5	436.3	505.5	574.9	592.2	642.9	710.6	744.5	615.6
100°	831.6	810.9	728.4	645.9	728.4	810.9	831.6	827.9	823.0	820.5	677.5
102.5°	1036.0	1018.3	947.7	877.0	947.7	1018.3	1036.0	971.4	885.1	842.0	696.9
105°	1274.7	1265.2	1227.2	1189.2	1227.2	1265.2	1274.7	1129.6	936.3	839.6	699.1
107.5°	1398.8	1401.1	1410.3	1419.5	1410.3	1401.1	1398.8	1196.5	926.7	791.8	667.9
110°	1430.6	1440.5	1480.1	1519.7	1480.1	1440.5	1430.6	1204.4	902.8	752.0	640.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1410.3	1425.5	1486.3	1547.1	1486.3	1425.5	1410.3	1178.8	870.2	715.9	616.3
115°	1341.5	1362.6	1446.9	1531.2	1446.9	1362.6	1341.5	1118.6	821.3	672.6	588.7
117.5°	1246.5	1269.8	1363.3	1456.9	1363.3	1269.8	1246.5	1045.2	776.9	642.8	571.4
120°	1182.4	1205.2	1296.0	1386.9	1296.0	1205.2	1182.4	998.6	753.4	630.8	565.6
122.5°	1118.4	1140.7	1230.4	1320.0	1230.4	1140.7	1118.4	952.8	732.0	621.6	562.5
125°	1033.6	1054.3	1136.8	1219.4	1136.8	1054.3	1033.6	893.0	705.5	611.7	559.9
127.5°	965.7	983.1	1052.8	1122.4	1052.8	983.1	965.7	844.9	683.9	603.4	558.5
130°	922.7	938.8	1003.1	1067.5	1003.1	938.8	922.7	815.3	671.9	600.2	559.5
132.5°	886.1	900.5	958.1	1015.8	958.1	900.5	886.1	789.8	661.5	597.3	559.9
135°	834.4	846.8	896.4	946.2	896.4	846.8	834.4	753.8	646.4	592.6	559.5
137.5°	796.2	806.4	847.1	887.7	847.1	806.4	796.2	728.0	637.2	591.8	562.9
140°	765.6	775.1	813.1	851.1	813.1	775.1	765.6	706.7	628.2	589.0	563.5
142.5°	744.1	752.3	785.0	817.7	785.0	752.3	744.1	692.4	623.4	589.0	565.5
145°	711.9	718.1	742.9	767.6	742.9	718.1	711.9	669.6	613.3	585.1	565.6
147.5°	684.9	690.1	710.5	731.0	710.5	690.1	684.9	651.6	607.3	585.1	569.4
150°	669.3	673.4	690.1	706.7	690.1	673.4	669.3	641.2	603.8	585.1	571.5
152.5°	657.0	660.2	672.7	685.3	672.7	660.2	657.0	633.0	601.1	585.1	572.8
155°	642.3	644.4	652.7	661.0	652.7	644.4	642.3	623.2	597.8	585.1	575.7
157.5°	629.6	631.0	636.9	642.8	636.9	631.0	629.6	614.7	594.9	585.1	578.6
160°	623.2	624.1	627.5	630.8	627.5	624.1	623.2	610.5	593.6	585.1	579.9
162.5°	617.2	618.0	621.2	624.4	621.2	618.0	617.2	606.5	592.3	585.1	581.4
165°	608.1	609.0	612.3	615.7	612.3	609.0	608.1	600.5	590.3	585.1	583.4
167.5°	604.1	604.5	605.8	607.3	605.8	604.5	604.1	599.1	592.4	589.0	587.6
170°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	599.1	592.4	589.0	588.9
172.5°	601.0	600.7	599.4	598.2	599.4	600.7	601.0	597.0	591.7	589.0	589.0
175°	596.6	596.6	596.6	596.6	596.6	596.6	596.6	594.1	590.7	589.0	589.8
177.5°	595.8	595.4	594.1	592.6	594.1	595.4	595.8	593.8	591.1	589.8	590.4
180°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	677.8	677.8	677.8	677.8	677.8
2.5°	669.5	672.7	674.6	677.2	683.6
5°	643.8	656.0	659.9	669.5	681.0
7.5°	587.4	624.6	634.8	658.0	675.9
10°	532.9	570.1	588.1	642.6	669.5
12.5°	505.3	527.1	539.3	615.6	660.5
15°	488.0	503.4	512.4	579.7	650.2
17.5°	474.6	485.5	491.9	544.5	636.2
20°	466.2	471.3	477.1	518.8	620.1
22.5°	460.4	457.3	461.7	500.9	598.3
25°	456.6	444.4	449.5	486.7	572.7
27.5°	459.8	432.9	434.8	473.9	545.7
30°	460.4	418.7	419.4	460.4	515.6
32.5°	455.9	404.0	404.7	443.8	481.6
35°	445.0	386.7	386.0	424.5	435.5
37.5°	430.3	368.1	368.1	403.3	384.8
40°	412.3	349.5	351.4	375.8	339.8
42.5°	390.5	329.6	332.2	339.3	306.6
45°	366.8	310.4	312.3	286.7	280.8
47.5°	340.5	290.5	291.2	237.9	272.5
50°	309.1	269.9	267.4	204.0	271.9
52.5°	281.5	247.6	239.8	184.6	246.9
55°	254.5	223.8	207.1	169.9	228.9
57.5°	230.8	193.1	177.0	152.6	225.1
60°	209.0	162.8	150.7	134.1	206.5
62.5°	191.1	140.5	137.9	121.2	187.2
65°	171.8	125.1	124.4	110.3	159.0
67.5°	153.3	114.7	114.2	100.0	121.2
70°	133.4	103.8	102.6	89.1	89.8
72.5°	112.8	91.7	90.5	80.1	74.4
75°	92.4	77.5	77.0	69.9	60.2
77.5°	72.5	61.6	62.8	56.4	44.3
80°	51.9	44.8	46.2	40.4	33.4
82.5°	34.6	29.5	30.8	25.6	22.5
85°	19.2	16.6	17.3	13.5	10.2
87.5°	9.0	7.6	7.6	5.2	3.3
90°	17.5	11.1	10.3	7.2	4.0
92.5°	108.0	76.8	70.0	42.9	15.9
95°	265.5	149.5	137.2	87.7	38.2
97.5°	357.7	164.3	153.4	109.7	66.0
100°	391.3	176.6	166.7	127.1	87.5
102.5°	406.7	188.9	179.7	142.8	105.8
105°	418.0	207.2	199.4	168.1	136.8
107.5°	420.2	234.3	227.0	197.8	168.7
110°	416.9	249.4	242.8	216.5	190.1



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CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	417.1	267.6	261.3	236.3	211.2
115°	420.9	295.1	289.2	266.1	243.0
117.5°	428.8	321.8	316.5	295.5	274.4
120°	435.1	337.2	332.3	312.5	292.7
122.5°	444.2	355.6	350.6	330.7	310.7
125°	456.6	379.0	374.4	356.3	338.1
127.5°	468.9	401.7	397.1	378.7	360.3
130°	477.9	416.8	411.8	392.0	372.2
132.5°	485.2	429.1	424.2	404.4	384.6
135°	493.2	443.5	439.0	420.9	402.9
137.5°	505.1	461.7	457.3	439.5	421.6
140°	512.4	474.1	470.0	453.5	437.1
142.5°	518.5	483.3	479.4	464.2	449.0
145°	526.5	497.1	493.8	480.6	467.3
147.5°	538.1	514.6	511.4	498.6	485.7
150°	544.3	523.8	520.8	509.2	497.5
152.5°	548.2	529.7	527.5	518.6	509.8
155°	557.0	542.9	541.3	534.7	528.2
157.5°	565.7	556.0	554.4	548.1	541.7
160°	569.7	562.0	560.7	555.8	550.9
162.5°	573.9	568.4	567.4	563.7	559.9
165°	580.0	577.4	576.6	573.2	569.9
167.5°	584.8	582.7	582.3	580.7	579.1
170°	588.7	588.6	588.2	586.6	585.1
172.5°	589.0	589.0	588.9	588.6	588.2
175°	591.4	592.6	592.6	592.6	592.6
177.5°	591.7	592.6	592.6	592.6	592.6
180°	592.6	592.6	592.6	592.6	592.6



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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	9.16	9.87	10.26	10.97	12.49	11.96	12.67	13.06	13.77	15.28
	3H	9.62	10.26	10.73	11.37	12.90	13.28	13.92	14.39	15.03	16.56
	4H	9.81	10.42	10.93	11.52	13.06	13.71	14.32	14.83	15.43	16.96
	6H	9.92	10.48	11.05	11.59	13.14	13.98	14.54	15.11	15.65	17.20
	8H	9.92	10.45	11.05	11.58	13.12	14.05	14.58	15.18	15.70	17.25
	12H	9.88	10.39	11.02	11.51	13.07	14.07	14.58	15.21	15.70	17.26
4H	2H	10.16	10.77	11.29	11.88	13.42	12.35	12.96	13.48	14.06	15.60
	3H	11.18	11.68	12.31	12.82	14.37	13.83	14.34	14.96	15.47	17.02
	4H	11.45	11.91	12.59	13.04	14.61	14.35	14.81	15.48	15.93	17.50
	6H	11.56	11.96	12.71	13.11	14.67	14.69	15.09	15.84	16.24	17.80
	8H	11.57	11.94	12.71	13.08	14.65	14.79	15.17	15.94	16.30	17.88
	12H	11.53	11.87	12.69	13.01	14.60	14.84	15.17	16.00	16.32	17.91
8H	4H	11.88	12.26	13.03	13.40	14.97	14.46	14.83	15.60	15.97	17.55
	6H	12.14	12.45	13.30	13.63	15.20	14.88	15.19	16.05	16.37	17.94
	8H	12.18	12.45	13.35	13.61	15.20	15.03	15.30	16.20	16.45	18.05
	12H	12.16	12.39	13.33	13.55	15.18	15.11	15.35	16.29	16.50	18.13
12H	4H	11.88	12.22	13.04	13.37	14.95	14.42	14.75	15.58	15.90	17.49
	6H	12.20	12.47	13.37	13.63	15.22	14.88	15.15	16.05	16.31	17.90
	8H	12.26	12.49	13.43	13.65	15.28	15.03	15.26	16.20	16.42	18.05