

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: P935032

Luminaire Tested: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935032
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-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

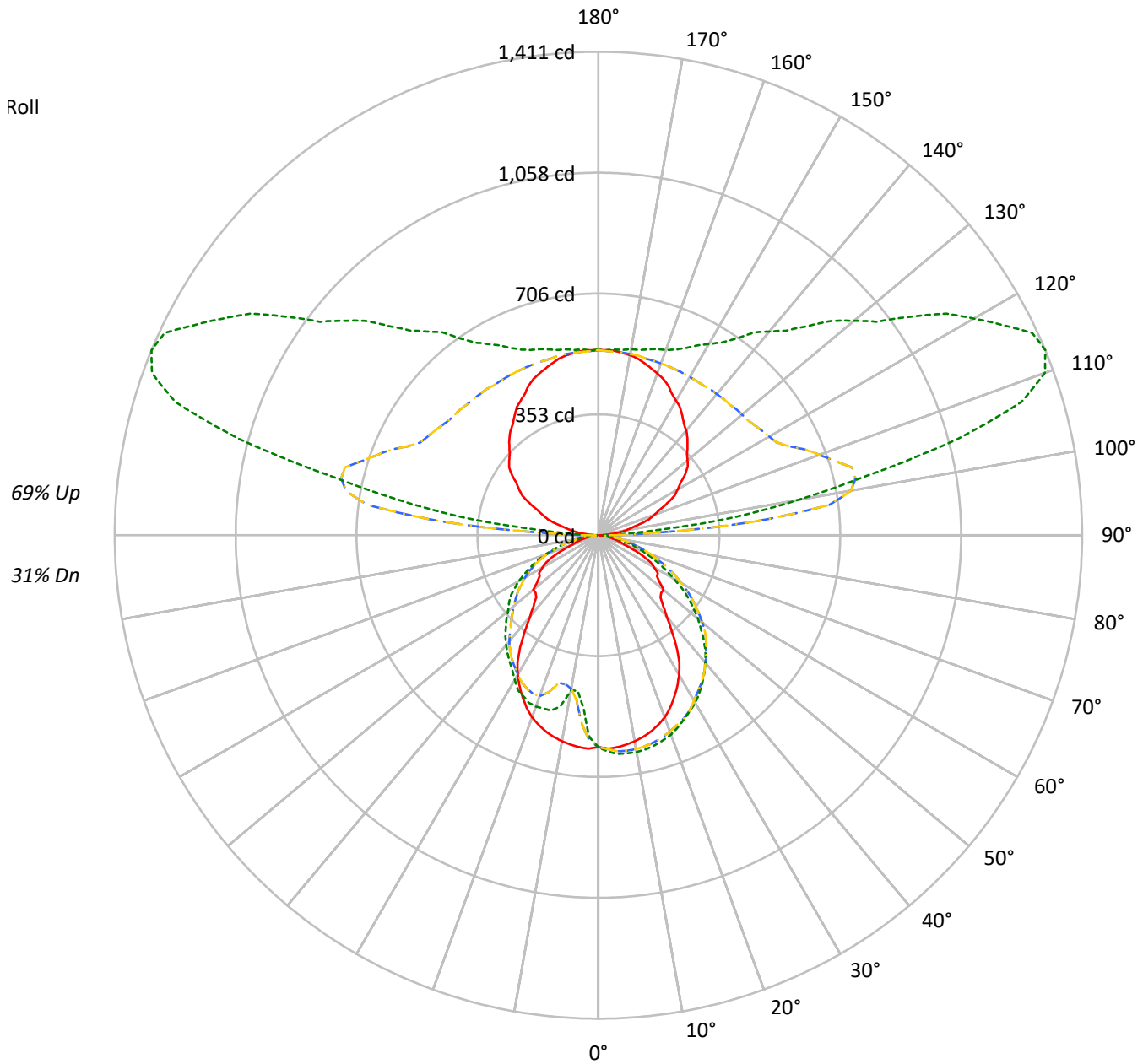
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5108.4 lumens
Efficiency: N/A
Efficacy: 124.0 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

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CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-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	
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

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	1.1
10°-20°	158.4	3.1
20°-30°	244.9	4.8
30°-40°	292.4	5.7
40°-50°	294.1	5.8
50°-60°	255.9	5.0
60°-70°	181.4	3.6
70°-80°	96.0	1.9
80°-90°	26.0	0.5
90°-100°	263.4	5.2
100°-110°	692.6	13.6
110°-120°	718.2	14.1
120°-130°	576.0	11.3
130°-140°	452.0	8.8
140°-150°	346.9	6.8
150°-160°	249.8	4.9
160°-170°	152.9	3.0
170°-180°	51.6	1.0
0°-30°	459.1	9.0
0°-40°	751.5	14.7
0°-60°	1301.5	25.5
0°-90°	1604.9	31.4
90°-120°	1674.2	32.8
90°-150°	3049.1	59.7
90°-180°	3504.0	68.6
0°-180°	5108.4	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°	4	14	4	14	4	3
95°	35	159	35	159	35	39
105°	125	1084	125	1084	125	132
115°	222	1396	222	1396	222	219
125°	308	1112	308	1112	308	274
135°	368	863	368	863	368	284
145°	426	700	426	700	426	267
155°	482	603	482	603	482	221
165°	520	562	520	562	520	147
175°	540	544	540	544	540	51
180°	540	540	540	540	540	



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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°	3.7	6.5	9.4	10.1	16.0	23.7	27.6	24.5	18.4	13.8	13.8
92.5°	14.5	39.2	63.8	70.0	98.5	136.3	155.2	136.0	97.7	68.9	66.2
95°	34.8	80.0	125.1	136.4	242.2	383.2	453.7	404.9	307.2	234.0	225.7
97.5°	60.2	100.0	139.9	149.8	326.2	561.4	679.0	648.1	586.4	540.1	524.3
100°	79.8	115.9	152.0	161.1	356.8	617.8	748.3	750.6	755.0	758.4	739.6
102.5°	96.4	130.2	163.9	172.3	370.9	635.5	767.9	807.2	885.9	944.8	928.7
105°	124.8	153.3	181.8	189.0	381.3	637.5	765.7	853.9	1030.2	1162.5	1153.9
107.5°	153.8	180.4	207.0	213.6	383.2	609.1	722.1	845.2	1091.2	1275.7	1277.8
110°	173.4	197.4	221.4	227.4	380.2	584.0	685.9	823.4	1098.4	1304.7	1313.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	192.6	215.5	238.3	244.1	380.4	562.0	652.9	793.6	1075.0	1286.2	1300.0
115°	221.6	242.7	263.8	269.1	383.9	536.9	613.4	749.0	1020.1	1223.5	1242.6
117.5°	250.3	269.5	288.6	293.4	391.0	521.1	586.2	708.5	953.2	1136.8	1158.1
120°	266.9	285.0	303.0	307.6	396.8	515.8	575.3	687.1	910.7	1078.4	1099.1
122.5°	283.3	301.5	319.8	324.3	405.1	513.0	566.9	667.5	868.9	1019.9	1040.3
125°	308.4	324.9	341.5	345.7	416.4	510.7	557.8	643.4	814.4	942.7	961.5
127.5°	328.6	345.3	362.2	366.3	427.6	509.4	550.3	623.7	770.5	880.7	896.5
130°	339.5	357.5	375.6	380.1	435.8	510.2	547.4	612.8	743.5	841.5	856.2
132.5°	350.7	368.8	386.8	391.4	442.5	510.7	544.8	603.3	720.3	808.1	821.3
135°	367.5	383.9	400.4	404.4	449.8	510.2	540.5	589.5	687.4	760.9	772.3
137.5°	384.5	400.8	417.0	421.1	460.6	513.4	539.7	581.1	664.0	726.1	735.4
140°	398.6	413.6	428.6	432.4	467.3	513.9	537.2	572.9	644.5	698.2	706.9
142.5°	409.5	423.4	437.2	440.7	472.9	515.7	537.2	568.6	631.4	678.6	686.1
145°	426.2	438.3	450.3	453.4	480.1	515.8	533.6	559.3	610.7	649.2	654.9
147.5°	442.9	454.7	466.4	469.3	490.8	519.3	533.6	553.8	594.3	624.6	629.3
150°	453.7	464.4	475.0	477.7	496.4	521.2	533.6	550.7	584.8	610.4	614.2
152.5°	465.0	473.0	481.1	483.1	499.9	522.3	533.6	548.2	577.3	599.2	602.1
155°	481.7	487.6	493.7	495.1	508.0	525.1	533.6	545.2	568.4	585.7	587.7
157.5°	494.0	499.8	505.6	507.1	515.9	527.7	533.6	542.6	560.6	574.1	575.5
160°	502.4	506.9	511.4	512.5	519.6	528.9	533.6	541.4	556.8	568.4	569.2
162.5°	510.7	514.1	517.5	518.3	523.4	530.2	533.6	540.1	553.1	562.9	563.6
165°	519.7	522.8	525.8	526.6	529.0	532.0	533.6	538.3	547.6	554.6	555.4
167.5°	528.1	529.6	531.1	531.4	533.3	535.9	537.2	540.2	546.3	551.0	551.3
170°	533.6	535.0	536.5	536.8	536.9	537.1	537.2	540.2	546.3	551.0	551.0
172.5°	536.5	536.8	537.1	537.2	537.2	537.2	537.2	539.6	544.4	548.1	547.8
175°	540.5	540.5	540.5	540.5	539.4	537.9	537.2	538.7	541.8	544.1	544.1
177.5°	540.5	540.5	540.5	540.5	539.6	538.5	537.9	539.1	541.5	543.4	543.0
180°	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5



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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°	13.8	13.8	13.8	13.8	13.8	18.4	24.5	27.6	23.7	16.0	10.1
92.5°	55.2	44.2	55.2	66.2	68.9	97.7	136.0	155.2	136.3	98.5	70.0
95°	192.5	159.2	192.5	225.7	234.0	307.2	404.9	453.7	383.2	242.2	136.4
97.5°	461.0	397.9	461.0	524.3	540.1	586.4	648.1	679.0	561.4	326.2	149.8
100°	664.3	589.1	664.3	739.6	758.4	755.0	750.6	748.3	617.8	356.8	161.1
102.5°	864.3	799.8	864.3	928.7	944.8	885.9	807.2	767.9	635.5	370.9	172.3
105°	1119.2	1084.5	1119.2	1153.9	1162.5	1030.2	853.9	765.7	637.5	381.3	189.0
107.5°	1286.2	1294.5	1286.2	1277.8	1275.7	1091.2	845.2	722.1	609.1	383.2	213.6
110°	1349.8	1385.9	1349.8	1313.7	1304.7	1098.4	823.4	685.9	584.0	380.2	227.4



TEST NUMBER: P935032

CATALOG NUMBER: SQ4-FA-100U-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°	1355.5	1411.0	1355.5	1300.0	1286.2	1075.0	793.6	652.9	562.0	380.4	244.1
115°	1319.6	1396.5	1319.6	1242.6	1223.5	1020.1	749.0	613.4	536.9	383.9	269.1
117.5°	1243.3	1328.6	1243.3	1158.1	1136.8	953.2	708.5	586.2	521.1	391.0	293.4
120°	1182.0	1264.8	1182.0	1099.1	1078.4	910.7	687.1	575.3	515.8	396.8	307.6
122.5°	1122.1	1203.8	1122.1	1040.3	1019.9	868.9	667.5	566.9	513.0	405.1	324.3
125°	1036.8	1112.1	1036.8	961.5	942.7	814.4	643.4	557.8	510.7	416.4	345.7
127.5°	960.1	1023.6	960.1	896.5	880.7	770.5	623.7	550.3	509.4	427.6	366.3
130°	914.9	973.5	914.9	856.2	841.5	743.5	612.8	547.4	510.2	435.8	380.1
132.5°	873.8	926.4	873.8	821.3	808.1	720.3	603.3	544.8	510.7	442.5	391.4
135°	817.5	862.9	817.5	772.3	760.9	687.4	589.5	540.5	510.2	449.8	404.4
137.5°	772.5	809.6	772.5	735.4	726.1	664.0	581.1	539.7	513.4	460.6	421.1
140°	741.6	776.2	741.6	706.9	698.2	644.5	572.9	537.2	513.9	467.3	432.4
142.5°	715.9	745.8	715.9	686.1	678.6	631.4	568.6	537.2	515.7	472.9	440.7
145°	677.5	700.1	677.5	654.9	649.2	610.7	559.3	533.6	515.8	480.1	453.4
147.5°	648.0	666.7	648.0	629.3	624.6	594.3	553.8	533.6	519.3	490.8	469.3
150°	629.3	644.5	629.3	614.2	610.4	584.8	550.7	533.6	521.2	496.4	477.7
152.5°	613.5	625.0	613.5	602.1	599.2	577.3	548.2	533.6	522.3	499.9	483.1
155°	595.3	602.8	595.3	587.7	585.7	568.4	545.2	533.6	525.1	508.0	495.1
157.5°	580.9	586.2	580.9	575.5	574.1	560.6	542.6	533.6	527.7	515.9	507.1
160°	572.2	575.3	572.2	569.2	568.4	556.8	541.4	533.6	528.9	519.6	512.5
162.5°	566.6	569.4	566.6	563.6	562.9	553.1	540.1	533.6	530.2	523.4	518.3
165°	558.5	561.5	558.5	555.4	554.6	547.6	538.3	533.6	532.0	529.0	526.6
167.5°	552.5	553.8	552.5	551.3	551.0	546.3	540.2	537.2	535.9	533.3	531.4
170°	551.0	551.0	551.0	551.0	551.0	546.3	540.2	537.2	537.1	536.9	536.8
172.5°	546.7	545.5	546.7	547.8	548.1	544.4	539.6	537.2	537.2	537.2	537.2
175°	544.1	544.1	544.1	544.1	544.1	541.8	538.7	537.2	537.9	539.4	540.5
177.5°	541.8	540.5	541.8	543.0	543.4	541.5	539.1	537.9	538.5	539.6	540.5
180°	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5



TEST NUMBER: P935032

CATALOG NUMBER: SQ4-FA-100U-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°	9.4	6.5	3.7	6.5	9.4	10.1	16.0	23.7	27.6	24.5	18.4
92.5°	63.8	39.2	14.5	39.2	63.8	70.0	98.5	136.3	155.2	136.0	97.7
95°	125.1	80.0	34.8	80.0	125.1	136.4	242.2	383.2	453.7	404.9	307.2
97.5°	139.9	100.0	60.2	100.0	139.9	149.8	326.2	561.4	679.0	648.1	586.4
100°	152.0	115.9	79.8	115.9	152.0	161.1	356.8	617.8	748.3	750.6	755.0
102.5°	163.9	130.2	96.4	130.2	163.9	172.3	370.9	635.5	767.9	807.2	885.9
105°	181.8	153.3	124.8	153.3	181.8	189.0	381.3	637.5	765.7	853.9	1030.2
107.5°	207.0	180.4	153.8	180.4	207.0	213.6	383.2	609.1	722.1	845.2	1091.2
110°	221.4	197.4	173.4	197.4	221.4	227.4	380.2	584.0	685.9	823.4	1098.4



TEST NUMBER: P935032

CATALOG NUMBER: SQ4-FA-100U-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°	238.3	215.5	192.6	215.5	238.3	244.1	380.4	562.0	652.9	793.6	1075.0
115°	263.8	242.7	221.6	242.7	263.8	269.1	383.9	536.9	613.4	749.0	1020.1
117.5°	288.6	269.5	250.3	269.5	288.6	293.4	391.0	521.1	586.2	708.5	953.2
120°	303.0	285.0	266.9	285.0	303.0	307.6	396.8	515.8	575.3	687.1	910.7
122.5°	319.8	301.5	283.3	301.5	319.8	324.3	405.1	513.0	566.9	667.5	868.9
125°	341.5	324.9	308.4	324.9	341.5	345.7	416.4	510.7	557.8	643.4	814.4
127.5°	362.2	345.3	328.6	345.3	362.2	366.3	427.6	509.4	550.3	623.7	770.5
130°	375.6	357.5	339.5	357.5	375.6	380.1	435.8	510.2	547.4	612.8	743.5
132.5°	386.8	368.8	350.7	368.8	386.8	391.4	442.5	510.7	544.8	603.3	720.3
135°	400.4	383.9	367.5	383.9	400.4	404.4	449.8	510.2	540.5	589.5	687.4
137.5°	417.0	400.8	384.5	400.8	417.0	421.1	460.6	513.4	539.7	581.1	664.0
140°	428.6	413.6	398.6	413.6	428.6	432.4	467.3	513.9	537.2	572.9	644.5
142.5°	437.2	423.4	409.5	423.4	437.2	440.7	472.9	515.7	537.2	568.6	631.4
145°	450.3	438.3	426.2	438.3	450.3	453.4	480.1	515.8	533.6	559.3	610.7
147.5°	466.4	454.7	442.9	454.7	466.4	469.3	490.8	519.3	533.6	553.8	594.3
150°	475.0	464.4	453.7	464.4	475.0	477.7	496.4	521.2	533.6	550.7	584.8
152.5°	481.1	473.0	465.0	473.0	481.1	483.1	499.9	522.3	533.6	548.2	577.3
155°	493.7	487.6	481.7	487.6	493.7	495.1	508.0	525.1	533.6	545.2	568.4
157.5°	505.6	499.8	494.0	499.8	505.6	507.1	515.9	527.7	533.6	542.6	560.6
160°	511.4	506.9	502.4	506.9	511.4	512.5	519.6	528.9	533.6	541.4	556.8
162.5°	517.5	514.1	510.7	514.1	517.5	518.3	523.4	530.2	533.6	540.1	553.1
165°	525.8	522.8	519.7	522.8	525.8	526.6	529.0	532.0	533.6	538.3	547.6
167.5°	531.1	529.6	528.1	529.6	531.1	531.4	533.3	535.9	537.2	540.2	546.3
170°	536.5	535.0	533.6	535.0	536.5	536.8	536.9	537.1	537.2	540.2	546.3
172.5°	537.1	536.8	536.5	536.8	537.1	537.2	537.2	537.2	537.2	539.6	544.4
175°	540.5	540.5	540.5	540.5	540.5	540.5	539.4	537.9	537.2	538.7	541.8
177.5°	540.5	540.5	540.5	540.5	540.5	540.5	539.6	538.5	537.9	539.1	541.5
180°	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5



TEST NUMBER: P935032

CATALOG NUMBER: SQ4-FA-100U-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°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	18.4	24.5	27.6	23.7
92.5°	68.9	66.2	55.2	44.2	55.2	66.2	68.9	97.7	136.0	155.2	136.3
95°	234.0	225.7	192.5	159.2	192.5	225.7	234.0	307.2	404.9	453.7	383.2
97.5°	540.1	524.3	461.0	397.9	461.0	524.3	540.1	586.4	648.1	679.0	561.4
100°	758.4	739.6	664.3	589.1	664.3	739.6	758.4	755.0	750.6	748.3	617.8
102.5°	944.8	928.7	864.3	799.8	864.3	928.7	944.8	885.9	807.2	767.9	635.5
105°	1162.5	1153.9	1119.2	1084.5	1119.2	1153.9	1162.5	1030.2	853.9	765.7	637.5
107.5°	1275.7	1277.8	1286.2	1294.5	1286.2	1277.8	1275.7	1091.2	845.2	722.1	609.1
110°	1304.7	1313.7	1349.8	1385.9	1349.8	1313.7	1304.7	1098.4	823.4	685.9	584.0



TEST NUMBER: P935032

CATALOG NUMBER: SQ4-FA-100U-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°	1286.2	1300.0	1355.5	1411.0	1355.5	1300.0	1286.2	1075.0	793.6	652.9	562.0
115°	1223.5	1242.6	1319.6	1396.5	1319.6	1242.6	1223.5	1020.1	749.0	613.4	536.9
117.5°	1136.8	1158.1	1243.3	1328.6	1243.3	1158.1	1136.8	953.2	708.5	586.2	521.1
120°	1078.4	1099.1	1182.0	1264.8	1182.0	1099.1	1078.4	910.7	687.1	575.3	515.8
122.5°	1019.9	1040.3	1122.1	1203.8	1122.1	1040.3	1019.9	868.9	667.5	566.9	513.0
125°	942.7	961.5	1036.8	1112.1	1036.8	961.5	942.7	814.4	643.4	557.8	510.7
127.5°	880.7	896.5	960.1	1023.6	960.1	896.5	880.7	770.5	623.7	550.3	509.4
130°	841.5	856.2	914.9	973.5	914.9	856.2	841.5	743.5	612.8	547.4	510.2
132.5°	808.1	821.3	873.8	926.4	873.8	821.3	808.1	720.3	603.3	544.8	510.7
135°	760.9	772.3	817.5	862.9	817.5	772.3	760.9	687.4	589.5	540.5	510.2
137.5°	726.1	735.4	772.5	809.6	772.5	735.4	726.1	664.0	581.1	539.7	513.4
140°	698.2	706.9	741.6	776.2	741.6	706.9	698.2	644.5	572.9	537.2	513.9
142.5°	678.6	686.1	715.9	745.8	715.9	686.1	678.6	631.4	568.6	537.2	515.7
145°	649.2	654.9	677.5	700.1	677.5	654.9	649.2	610.7	559.3	533.6	515.8
147.5°	624.6	629.3	648.0	666.7	648.0	629.3	624.6	594.3	553.8	533.6	519.3
150°	610.4	614.2	629.3	644.5	629.3	614.2	610.4	584.8	550.7	533.6	521.2
152.5°	599.2	602.1	613.5	625.0	613.5	602.1	599.2	577.3	548.2	533.6	522.3
155°	585.7	587.7	595.3	602.8	595.3	587.7	585.7	568.4	545.2	533.6	525.1
157.5°	574.1	575.5	580.9	586.2	580.9	575.5	574.1	560.6	542.6	533.6	527.7
160°	568.4	569.2	572.2	575.3	572.2	569.2	568.4	556.8	541.4	533.6	528.9
162.5°	562.9	563.6	566.6	569.4	566.6	563.6	562.9	553.1	540.1	533.6	530.2
165°	554.6	555.4	558.5	561.5	558.5	555.4	554.6	547.6	538.3	533.6	532.0
167.5°	551.0	551.3	552.5	553.8	552.5	551.3	551.0	546.3	540.2	537.2	535.9
170°	551.0	551.0	551.0	551.0	551.0	551.0	551.0	546.3	540.2	537.2	537.1
172.5°	548.1	547.8	546.7	545.5	546.7	547.8	548.1	544.4	539.6	537.2	537.2
175°	544.1	544.1	544.1	544.1	544.1	544.1	544.1	541.8	538.7	537.2	537.9
177.5°	543.4	543.0	541.8	540.5	541.8	543.0	543.4	541.5	539.1	537.9	538.5
180°	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5



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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°	16.0	10.1	9.4	6.5	3.7
92.5°	98.5	70.0	63.8	39.2	14.5
95°	242.2	136.4	125.1	80.0	34.8
97.5°	326.2	149.8	139.9	100.0	60.2
100°	356.8	161.1	152.0	115.9	79.8
102.5°	370.9	172.3	163.9	130.2	96.4
105°	381.3	189.0	181.8	153.3	124.8
107.5°	383.2	213.6	207.0	180.4	153.8
110°	380.2	227.4	221.4	197.4	173.4



TEST NUMBER: P935032

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	380.4	244.1	238.3	215.5	192.6
115°	383.9	269.1	263.8	242.7	221.6
117.5°	391.0	293.4	288.6	269.5	250.3
120°	396.8	307.6	303.0	285.0	266.9
122.5°	405.1	324.3	319.8	301.5	283.3
125°	416.4	345.7	341.5	324.9	308.4
127.5°	427.6	366.3	362.2	345.3	328.6
130°	435.8	380.1	375.6	357.5	339.5
132.5°	442.5	391.4	386.8	368.8	350.7
135°	449.8	404.4	400.4	383.9	367.5
137.5°	460.6	421.1	417.0	400.8	384.5
140°	467.3	432.4	428.6	413.6	398.6
142.5°	472.9	440.7	437.2	423.4	409.5
145°	480.1	453.4	450.3	438.3	426.2
147.5°	490.8	469.3	466.4	454.7	442.9
150°	496.4	477.7	475.0	464.4	453.7
152.5°	499.9	483.1	481.1	473.0	465.0
155°	508.0	495.1	493.7	487.6	481.7
157.5°	515.9	507.1	505.6	499.8	494.0
160°	519.6	512.5	511.4	506.9	502.4
162.5°	523.4	518.3	517.5	514.1	510.7
165°	529.0	526.6	525.8	522.8	519.7
167.5°	533.3	531.4	531.1	529.6	528.1
170°	536.9	536.8	536.5	535.0	533.6
172.5°	537.2	537.2	537.1	536.8	536.5
175°	539.4	540.5	540.5	540.5	540.5
177.5°	539.6	540.5	540.5	540.5	540.5
180°	540.5	540.5	540.5	540.5	540.5



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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	8.84	9.55	9.94	10.65	12.17	11.64	12.35	12.74	13.45	14.97
	3H	9.30	9.94	10.41	11.05	12.58	12.96	13.60	14.07	14.71	16.24
	4H	9.49	10.10	10.61	11.20	12.74	13.39	14.00	14.51	15.11	16.64
	6H	9.60	10.16	10.73	11.27	12.82	13.66	14.22	14.79	15.33	16.88
	8H	9.60	10.13	10.73	11.26	12.80	13.73	14.26	14.86	15.39	16.93
	12H	9.56	10.07	10.70	11.19	12.75	13.76	14.26	14.89	15.38	16.95
4H	2H	9.85	10.45	10.97	11.56	13.10	12.03	12.64	13.16	13.75	15.28
	3H	10.86	11.36	11.99	12.50	14.05	13.51	14.02	14.65	15.15	16.70
	4H	11.13	11.59	12.27	12.72	14.29	14.03	14.49	15.16	15.62	17.18
	6H	11.24	11.64	12.39	12.79	14.35	14.37	14.77	15.52	15.92	17.48
	8H	11.25	11.62	12.39	12.76	14.33	14.47	14.85	15.62	15.98	17.56
	12H	11.21	11.55	12.37	12.70	14.28	14.52	14.86	15.68	16.01	17.59
8H	4H	11.56	11.94	12.71	13.08	14.65	14.14	14.51	15.28	15.65	17.23
	6H	11.82	12.13	12.98	13.31	14.88	14.56	14.87	15.73	16.05	17.62
	8H	11.86	12.13	13.03	13.29	14.88	14.71	14.98	15.88	16.14	17.73
	12H	11.84	12.07	13.01	13.23	14.86	14.79	15.03	15.97	16.19	17.81
12H	4H	11.56	11.90	12.72	13.05	14.63	14.10	14.44	15.26	15.59	17.17
	6H	11.88	12.15	13.05	13.31	14.90	14.56	14.83	15.73	15.99	17.58
	8H	11.94	12.17	13.11	13.33	14.96	14.71	14.94	15.88	16.10	17.73