

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: P935832

Luminaire Tested: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935832
REPORT IS A COMBINATION OF REPORTS P933770 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-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: -

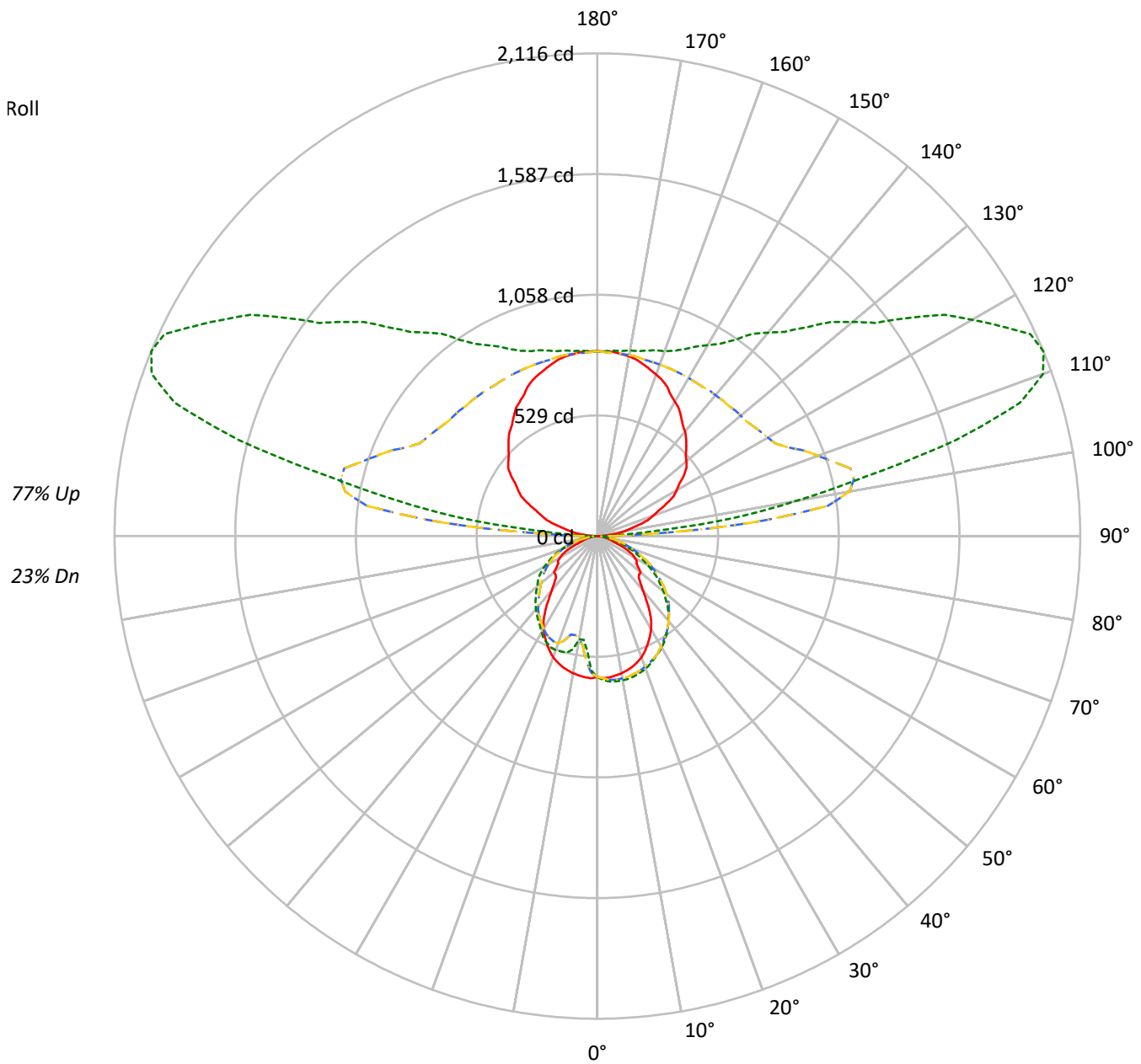
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6859.4 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.6
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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

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	0.8
10°-20°	158.4	2.3
20°-30°	244.9	3.6
30°-40°	292.4	4.3
40°-50°	294.1	4.3
50°-60°	255.9	3.7
60°-70°	181.4	2.6
70°-80°	96.0	1.4
80°-90°	27.0	0.4
90°-100°	395.0	5.8
100°-110°	1038.6	15.1
110°-120°	1076.9	15.7
120°-130°	863.8	12.6
130°-140°	677.8	9.9
140°-150°	520.2	7.6
150°-160°	374.6	5.5
160°-170°	229.2	3.3
170°-180°	77.4	1.1
0°-30°	459.1	6.7
0°-40°	751.5	11.0
0°-60°	1301.5	19.0
0°-90°	1605.9	23.4
90°-120°	2510.5	36.6
90°-150°	4572.2	66.7
90°-180°	5254.0	76.6
0°-180°	6859.4	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°	5	21	5	21	5	5
95°	52	239	52	239	52	58
105°	187	1626	187	1626	187	198
115°	332	2094	332	2094	332	328
125°	462	1668	462	1668	462	410
135°	551	1294	551	1294	551	426
145°	639	1050	639	1050	639	400
155°	722	904	722	904	722	332
165°	779	842	779	842	779	220
175°	810	816	810	816	810	77
180°	810	810	810	810	810	



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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°	5.4	9.8	14.1	15.3	24.0	35.6	41.3	36.7	27.6	20.7	20.7
92.5°	21.7	58.7	95.7	105.0	147.5	204.3	232.7	204.0	146.5	103.3	99.2
95°	52.2	119.9	187.6	204.5	363.1	574.7	680.4	607.2	460.7	350.8	338.3
97.5°	90.3	150.0	209.7	224.6	489.1	841.9	1018.2	971.9	879.3	809.9	786.1
100°	119.6	173.8	227.9	241.5	535.0	926.4	1122.0	1125.4	1132.2	1137.3	1109.1
102.5°	144.7	195.2	245.7	258.4	556.1	953.0	1151.4	1210.4	1328.4	1416.9	1392.7
105°	187.1	230.0	272.7	283.4	571.6	955.9	1148.1	1280.3	1544.8	1743.2	1730.2
107.5°	230.7	270.5	310.4	320.4	574.6	913.5	1082.9	1267.3	1636.2	1912.9	1916.0
110°	260.0	296.0	332.1	341.1	570.2	875.7	1028.5	1234.7	1647.1	1956.4	1969.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	288.8	323.2	357.5	366.1	570.4	842.8	979.0	1190.1	1612.1	1928.7	1949.4
115°	332.3	364.0	395.6	403.6	575.6	805.1	919.7	1123.0	1529.6	1834.6	1863.4
117.5°	375.3	404.1	432.9	440.0	586.4	781.4	878.9	1062.4	1429.4	1704.6	1736.6
120°	400.3	427.4	454.4	461.2	595.0	773.4	862.6	1030.2	1365.5	1617.0	1648.1
122.5°	424.8	452.1	479.4	486.2	607.5	769.3	850.1	1001.1	1303.0	1529.5	1560.1
125°	462.4	487.2	512.1	518.3	624.4	765.8	836.5	964.7	1221.2	1413.6	1441.8
127.5°	492.8	517.9	543.0	549.3	641.2	763.8	825.1	935.3	1155.4	1320.6	1344.4
130°	509.1	536.1	563.2	570.0	653.6	765.0	820.8	918.8	1114.8	1261.8	1283.8
132.5°	525.9	553.0	580.1	586.9	663.5	765.8	816.9	904.6	1080.2	1211.8	1231.5
135°	551.0	575.6	600.2	606.4	674.4	765.0	810.4	883.9	1030.8	1141.1	1158.1
137.5°	576.5	600.9	625.3	631.4	690.7	769.8	809.3	871.4	995.7	1088.9	1102.8
140°	597.8	620.3	642.8	648.4	700.8	770.6	805.5	859.1	966.5	1047.0	1060.0
142.5°	614.1	634.8	655.6	660.8	709.1	773.3	805.5	852.7	946.9	1017.7	1028.8
145°	639.1	657.3	675.3	679.8	720.0	773.4	800.1	838.6	915.7	973.5	982.0
147.5°	664.1	681.8	699.4	703.8	735.9	778.7	800.1	830.4	891.0	936.6	943.5
150°	680.4	696.4	712.3	716.3	744.2	781.4	800.1	825.7	876.9	915.4	921.0
152.5°	697.3	709.4	721.4	724.5	749.7	783.3	800.1	822.0	865.8	898.5	902.8
155°	722.3	731.3	740.2	742.4	761.6	787.3	800.1	817.5	852.3	878.4	881.3
157.5°	740.8	749.5	758.1	760.3	773.6	791.3	800.1	813.6	840.6	861.0	863.0
160°	753.3	760.1	766.9	768.5	779.1	793.1	800.1	811.7	834.9	852.2	853.4
162.5°	765.8	770.9	775.9	777.2	784.8	795.0	800.1	809.9	829.5	844.1	845.2
165°	779.4	784.0	788.6	789.7	793.2	797.8	800.1	807.1	821.1	831.6	832.7
167.5°	791.9	794.1	796.3	796.8	799.7	803.6	805.5	810.1	819.3	826.2	826.7
170°	800.1	802.3	804.5	805.0	805.1	805.4	805.5	810.1	819.3	826.2	826.2
172.5°	804.5	804.9	805.4	805.5	805.5	805.5	805.5	809.2	816.4	821.8	821.4
175°	810.4	810.4	810.4	810.4	808.7	806.5	805.5	807.8	812.4	815.9	815.9
177.5°	810.4	810.4	810.4	810.4	809.2	807.5	806.6	808.5	812.0	814.7	814.2
180°	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4



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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°	20.7	20.7	20.7	20.7	20.7	27.6	36.7	41.3	35.6	24.0	15.3
92.5°	82.8	66.4	82.8	99.2	103.3	146.5	204.0	232.7	204.3	147.5	105.0
95°	288.6	238.8	288.6	338.3	350.8	460.7	607.2	680.4	574.7	363.1	204.5
97.5°	691.4	596.6	691.4	786.1	809.9	879.3	971.9	1018.2	841.9	489.1	224.6
100°	996.2	883.3	996.2	1109.1	1137.3	1132.2	1125.4	1122.0	926.4	535.0	241.5
102.5°	1296.0	1199.3	1296.0	1392.7	1416.9	1328.4	1210.4	1151.4	953.0	556.1	258.4
105°	1678.2	1626.3	1678.2	1730.2	1743.2	1544.8	1280.3	1148.1	955.9	571.6	283.4
107.5°	1928.6	1941.1	1928.6	1916.0	1912.9	1636.2	1267.3	1082.9	913.5	574.6	320.4
110°	2024.1	2078.2	2024.1	1969.9	1956.4	1647.1	1234.7	1028.5	875.7	570.2	341.1



TEST NUMBER: P935832

CATALOG NUMBER: SQ4-FA-150U-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°	2032.6	2115.7	2032.6	1949.4	1928.7	1612.1	1190.1	979.0	842.8	570.4	366.1
115°	1978.7	2094.0	1978.7	1863.4	1834.6	1529.6	1123.0	919.7	805.1	575.6	403.6
117.5°	1864.4	1992.2	1864.4	1736.6	1704.6	1429.4	1062.4	878.9	781.4	586.4	440.0
120°	1772.3	1896.6	1772.3	1648.1	1617.0	1365.5	1030.2	862.6	773.4	595.0	461.2
122.5°	1682.7	1805.2	1682.7	1560.1	1529.5	1303.0	1001.1	850.1	769.3	607.5	486.2
125°	1554.7	1667.6	1554.7	1441.8	1413.6	1221.2	964.7	836.5	765.8	624.4	518.3
127.5°	1439.6	1534.9	1439.6	1344.4	1320.6	1155.4	935.3	825.1	763.8	641.2	549.3
130°	1371.8	1459.8	1371.8	1283.8	1261.8	1114.8	918.8	820.8	765.0	653.6	570.0
132.5°	1310.2	1389.1	1310.2	1231.5	1211.8	1080.2	904.6	816.9	765.8	663.5	586.9
135°	1226.0	1293.9	1226.0	1158.1	1141.1	1030.8	883.9	810.4	765.0	674.4	606.4
137.5°	1158.4	1214.0	1158.4	1102.8	1088.9	995.7	871.4	809.3	769.8	690.7	631.4
140°	1111.9	1163.9	1111.9	1060.0	1047.0	966.5	859.1	805.5	770.6	700.8	648.4
142.5°	1073.6	1118.2	1073.6	1028.8	1017.7	946.9	852.7	805.5	773.3	709.1	660.8
145°	1015.9	1049.8	1015.9	982.0	973.5	915.7	838.6	800.1	773.4	720.0	679.8
147.5°	971.6	999.7	971.6	943.5	936.6	891.0	830.4	800.1	778.7	735.9	703.8
150°	943.8	966.5	943.8	921.0	915.4	876.9	825.7	800.1	781.4	744.2	716.3
152.5°	920.0	937.1	920.0	902.8	898.5	865.8	822.0	800.1	783.3	749.7	724.5
155°	892.6	904.0	892.6	881.3	878.4	852.3	817.5	800.1	787.3	761.6	742.4
157.5°	870.9	878.9	870.9	863.0	861.0	840.6	813.6	800.1	791.3	773.6	760.3
160°	858.0	862.6	858.0	853.4	852.2	834.9	811.7	800.1	793.1	779.1	768.5
162.5°	849.5	853.9	849.5	845.2	844.1	829.5	809.9	800.1	795.0	784.8	777.2
165°	837.3	841.9	837.3	832.7	831.6	821.1	807.1	800.1	797.8	793.2	789.7
167.5°	828.6	830.5	828.6	826.7	826.2	819.3	810.1	805.5	803.6	799.7	796.8
170°	826.2	826.2	826.2	826.2	826.2	819.3	810.1	805.5	805.4	805.1	805.0
172.5°	819.7	818.1	819.7	821.4	821.8	816.4	809.2	805.5	805.5	805.5	805.5
175°	815.9	815.9	815.9	815.9	815.9	812.4	807.8	805.5	806.5	808.7	810.4
177.5°	812.3	810.4	812.3	814.2	814.7	812.0	808.5	806.6	807.5	809.2	810.4
180°	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4



TEST NUMBER: P935832

CATALOG NUMBER: SQ4-FA-150U-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°	14.1	9.8	5.4	9.8	14.1	15.3	24.0	35.6	41.3	36.7	27.6
92.5°	95.7	58.7	21.7	58.7	95.7	105.0	147.5	204.3	232.7	204.0	146.5
95°	187.6	119.9	52.2	119.9	187.6	204.5	363.1	574.7	680.4	607.2	460.7
97.5°	209.7	150.0	90.3	150.0	209.7	224.6	489.1	841.9	1018.2	971.9	879.3
100°	227.9	173.8	119.6	173.8	227.9	241.5	535.0	926.4	1122.0	1125.4	1132.2
102.5°	245.7	195.2	144.7	195.2	245.7	258.4	556.1	953.0	1151.4	1210.4	1328.4
105°	272.7	230.0	187.1	230.0	272.7	283.4	571.6	955.9	1148.1	1280.3	1544.8
107.5°	310.4	270.5	230.7	270.5	310.4	320.4	574.6	913.5	1082.9	1267.3	1636.2
110°	332.1	296.0	260.0	296.0	332.1	341.1	570.2	875.7	1028.5	1234.7	1647.1



TEST NUMBER: P935832

CATALOG NUMBER: SQ4-FA-150U-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°	357.5	323.2	288.8	323.2	357.5	366.1	570.4	842.8	979.0	1190.1	1612.1
115°	395.6	364.0	332.3	364.0	395.6	403.6	575.6	805.1	919.7	1123.0	1529.6
117.5°	432.9	404.1	375.3	404.1	432.9	440.0	586.4	781.4	878.9	1062.4	1429.4
120°	454.4	427.4	400.3	427.4	454.4	461.2	595.0	773.4	862.6	1030.2	1365.5
122.5°	479.4	452.1	424.8	452.1	479.4	486.2	607.5	769.3	850.1	1001.1	1303.0
125°	512.1	487.2	462.4	487.2	512.1	518.3	624.4	765.8	836.5	964.7	1221.2
127.5°	543.0	517.9	492.8	517.9	543.0	549.3	641.2	763.8	825.1	935.3	1155.4
130°	563.2	536.1	509.1	536.1	563.2	570.0	653.6	765.0	820.8	918.8	1114.8
132.5°	580.1	553.0	525.9	553.0	580.1	586.9	663.5	765.8	816.9	904.6	1080.2
135°	600.2	575.6	551.0	575.6	600.2	606.4	674.4	765.0	810.4	883.9	1030.8
137.5°	625.3	600.9	576.5	600.9	625.3	631.4	690.7	769.8	809.3	871.4	995.7
140°	642.8	620.3	597.8	620.3	642.8	648.4	700.8	770.6	805.5	859.1	966.5
142.5°	655.6	634.8	614.1	634.8	655.6	660.8	709.1	773.3	805.5	852.7	946.9
145°	675.3	657.3	639.1	657.3	675.3	679.8	720.0	773.4	800.1	838.6	915.7
147.5°	699.4	681.8	664.1	681.8	699.4	703.8	735.9	778.7	800.1	830.4	891.0
150°	712.3	696.4	680.4	696.4	712.3	716.3	744.2	781.4	800.1	825.7	876.9
152.5°	721.4	709.4	697.3	709.4	721.4	724.5	749.7	783.3	800.1	822.0	865.8
155°	740.2	731.3	722.3	731.3	740.2	742.4	761.6	787.3	800.1	817.5	852.3
157.5°	758.1	749.5	740.8	749.5	758.1	760.3	773.6	791.3	800.1	813.6	840.6
160°	766.9	760.1	753.3	760.1	766.9	768.5	779.1	793.1	800.1	811.7	834.9
162.5°	775.9	770.9	765.8	770.9	775.9	777.2	784.8	795.0	800.1	809.9	829.5
165°	788.6	784.0	779.4	784.0	788.6	789.7	793.2	797.8	800.1	807.1	821.1
167.5°	796.3	794.1	791.9	794.1	796.3	796.8	799.7	803.6	805.5	810.1	819.3
170°	804.5	802.3	800.1	802.3	804.5	805.0	805.1	805.4	805.5	810.1	819.3
172.5°	805.4	804.9	804.5	804.9	805.4	805.5	805.5	805.5	805.5	809.2	816.4
175°	810.4	810.4	810.4	810.4	810.4	810.4	808.7	806.5	805.5	807.8	812.4
177.5°	810.4	810.4	810.4	810.4	810.4	810.4	809.2	807.5	806.6	808.5	812.0
180°	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4



TEST NUMBER: P935832

CATALOG NUMBER: SQ4-FA-150U-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°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	27.6	36.7	41.3	35.6
92.5°	103.3	99.2	82.8	66.4	82.8	99.2	103.3	146.5	204.0	232.7	204.3
95°	350.8	338.3	288.6	238.8	288.6	338.3	350.8	460.7	607.2	680.4	574.7
97.5°	809.9	786.1	691.4	596.6	691.4	786.1	809.9	879.3	971.9	1018.2	841.9
100°	1137.3	1109.1	996.2	883.3	996.2	1109.1	1137.3	1132.2	1125.4	1122.0	926.4
102.5°	1416.9	1392.7	1296.0	1199.3	1296.0	1392.7	1416.9	1328.4	1210.4	1151.4	953.0
105°	1743.2	1730.2	1678.2	1626.3	1678.2	1730.2	1743.2	1544.8	1280.3	1148.1	955.9
107.5°	1912.9	1916.0	1928.6	1941.1	1928.6	1916.0	1912.9	1636.2	1267.3	1082.9	913.5
110°	1956.4	1969.9	2024.1	2078.2	2024.1	1969.9	1956.4	1647.1	1234.7	1028.5	875.7



TEST NUMBER: P935832

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1928.7	1949.4	2032.6	2115.7	2032.6	1949.4	1928.7	1612.1	1190.1	979.0	842.8
115°	1834.6	1863.4	1978.7	2094.0	1978.7	1863.4	1834.6	1529.6	1123.0	919.7	805.1
117.5°	1704.6	1736.6	1864.4	1992.2	1864.4	1736.6	1704.6	1429.4	1062.4	878.9	781.4
120°	1617.0	1648.1	1772.3	1896.6	1772.3	1648.1	1617.0	1365.5	1030.2	862.6	773.4
122.5°	1529.5	1560.1	1682.7	1805.2	1682.7	1560.1	1529.5	1303.0	1001.1	850.1	769.3
125°	1413.6	1441.8	1554.7	1667.6	1554.7	1441.8	1413.6	1221.2	964.7	836.5	765.8
127.5°	1320.6	1344.4	1439.6	1534.9	1439.6	1344.4	1320.6	1155.4	935.3	825.1	763.8
130°	1261.8	1283.8	1371.8	1459.8	1371.8	1283.8	1261.8	1114.8	918.8	820.8	765.0
132.5°	1211.8	1231.5	1310.2	1389.1	1310.2	1231.5	1211.8	1080.2	904.6	816.9	765.8
135°	1141.1	1158.1	1226.0	1293.9	1226.0	1158.1	1141.1	1030.8	883.9	810.4	765.0
137.5°	1088.9	1102.8	1158.4	1214.0	1158.4	1102.8	1088.9	995.7	871.4	809.3	769.8
140°	1047.0	1060.0	1111.9	1163.9	1111.9	1060.0	1047.0	966.5	859.1	805.5	770.6
142.5°	1017.7	1028.8	1073.6	1118.2	1073.6	1028.8	1017.7	946.9	852.7	805.5	773.3
145°	973.5	982.0	1015.9	1049.8	1015.9	982.0	973.5	915.7	838.6	800.1	773.4
147.5°	936.6	943.5	971.6	999.7	971.6	943.5	936.6	891.0	830.4	800.1	778.7
150°	915.4	921.0	943.8	966.5	943.8	921.0	915.4	876.9	825.7	800.1	781.4
152.5°	898.5	902.8	920.0	937.1	920.0	902.8	898.5	865.8	822.0	800.1	783.3
155°	878.4	881.3	892.6	904.0	892.6	881.3	878.4	852.3	817.5	800.1	787.3
157.5°	861.0	863.0	870.9	878.9	870.9	863.0	861.0	840.6	813.6	800.1	791.3
160°	852.2	853.4	858.0	862.6	858.0	853.4	852.2	834.9	811.7	800.1	793.1
162.5°	844.1	845.2	849.5	853.9	849.5	845.2	844.1	829.5	809.9	800.1	795.0
165°	831.6	832.7	837.3	841.9	837.3	832.7	831.6	821.1	807.1	800.1	797.8
167.5°	826.2	826.7	828.6	830.5	828.6	826.7	826.2	819.3	810.1	805.5	803.6
170°	826.2	826.2	826.2	826.2	826.2	826.2	826.2	819.3	810.1	805.5	805.4
172.5°	821.8	821.4	819.7	818.1	819.7	821.4	821.8	816.4	809.2	805.5	805.5
175°	815.9	815.9	815.9	815.9	815.9	815.9	815.9	812.4	807.8	805.5	806.5
177.5°	814.7	814.2	812.3	810.4	812.3	814.2	814.7	812.0	808.5	806.6	807.5
180°	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4	810.4



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CATALOG NUMBER: SQ4-FA-150U-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°	24.0	15.3	14.1	9.8	5.4
92.5°	147.5	105.0	95.7	58.7	21.7
95°	363.1	204.5	187.6	119.9	52.2
97.5°	489.1	224.6	209.7	150.0	90.3
100°	535.0	241.5	227.9	173.8	119.6
102.5°	556.1	258.4	245.7	195.2	144.7
105°	571.6	283.4	272.7	230.0	187.1
107.5°	574.6	320.4	310.4	270.5	230.7
110°	570.2	341.1	332.1	296.0	260.0



TEST NUMBER: P935832

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	570.4	366.1	357.5	323.2	288.8
115°	575.6	403.6	395.6	364.0	332.3
117.5°	586.4	440.0	432.9	404.1	375.3
120°	595.0	461.2	454.4	427.4	400.3
122.5°	607.5	486.2	479.4	452.1	424.8
125°	624.4	518.3	512.1	487.2	462.4
127.5°	641.2	549.3	543.0	517.9	492.8
130°	653.6	570.0	563.2	536.1	509.1
132.5°	663.5	586.9	580.1	553.0	525.9
135°	674.4	606.4	600.2	575.6	551.0
137.5°	690.7	631.4	625.3	600.9	576.5
140°	700.8	648.4	642.8	620.3	597.8
142.5°	709.1	660.8	655.6	634.8	614.1
145°	720.0	679.8	675.3	657.3	639.1
147.5°	735.9	703.8	699.4	681.8	664.1
150°	744.2	716.3	712.3	696.4	680.4
152.5°	749.7	724.5	721.4	709.4	697.3
155°	761.6	742.4	740.2	731.3	722.3
157.5°	773.6	760.3	758.1	749.5	740.8
160°	779.1	768.5	766.9	760.1	753.3
162.5°	784.8	777.2	775.9	770.9	765.8
165°	793.2	789.7	788.6	784.0	779.4
167.5°	799.7	796.8	796.3	794.1	791.9
170°	805.1	805.0	804.5	802.3	800.1
172.5°	805.5	805.5	805.4	804.9	804.5
175°	808.7	810.4	810.4	810.4	810.4
177.5°	809.2	810.4	810.4	810.4	810.4
180°	810.4	810.4	810.4	810.4	810.4



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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	7.65	8.32	8.81	9.46	11.07	10.45	11.12	11.61	12.26	13.87
	3H	8.11	8.71	9.28	9.86	11.48	11.77	12.36	12.93	13.52	15.14
	4H	8.30	8.86	9.47	10.01	11.64	12.20	12.76	13.37	13.92	15.54
	6H	8.40	8.92	9.58	10.08	11.71	12.47	12.98	13.65	14.14	15.78
	8H	8.40	8.89	9.58	10.06	11.69	12.53	13.02	13.71	14.19	15.82
	12H	8.36	8.83	9.55	10.00	11.65	12.56	13.03	13.74	14.19	15.84
4H	2H	8.65	9.22	9.83	10.37	12.00	10.84	11.40	12.02	12.55	14.18
	3H	9.66	10.13	10.84	11.31	12.95	12.31	12.78	13.50	13.96	15.60
	4H	9.93	10.36	11.11	11.53	13.18	12.83	13.26	14.01	14.43	16.08
	6H	10.04	10.41	11.23	11.60	13.25	13.17	13.54	14.36	14.73	16.38
	8H	10.04	10.39	11.23	11.57	13.23	13.27	13.62	14.46	14.79	16.46
	12H	10.00	10.32	11.21	11.50	13.17	13.31	13.63	14.52	14.82	16.48
8H	4H	10.36	10.71	11.55	11.89	13.55	12.94	13.28	14.13	14.46	16.12
	6H	10.61	10.90	11.82	12.12	13.78	13.36	13.64	14.56	14.86	16.52
	8H	10.65	10.90	11.87	12.10	13.78	13.50	13.75	14.71	14.95	16.63
	12H	10.63	10.85	11.85	12.04	13.75	13.58	13.80	14.80	15.00	16.71
12H	4H	10.36	10.67	11.56	11.86	13.53	12.89	13.21	14.10	14.39	16.06
	6H	10.67	10.92	11.89	12.12	13.80	13.35	13.60	14.56	14.80	16.48
	8H	10.73	10.95	11.95	12.14	13.85	13.50	13.72	14.72	14.91	16.62