

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: P935458

Luminaire Tested: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935458
REPORT IS A COMBINATION OF REPORTS P933754 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

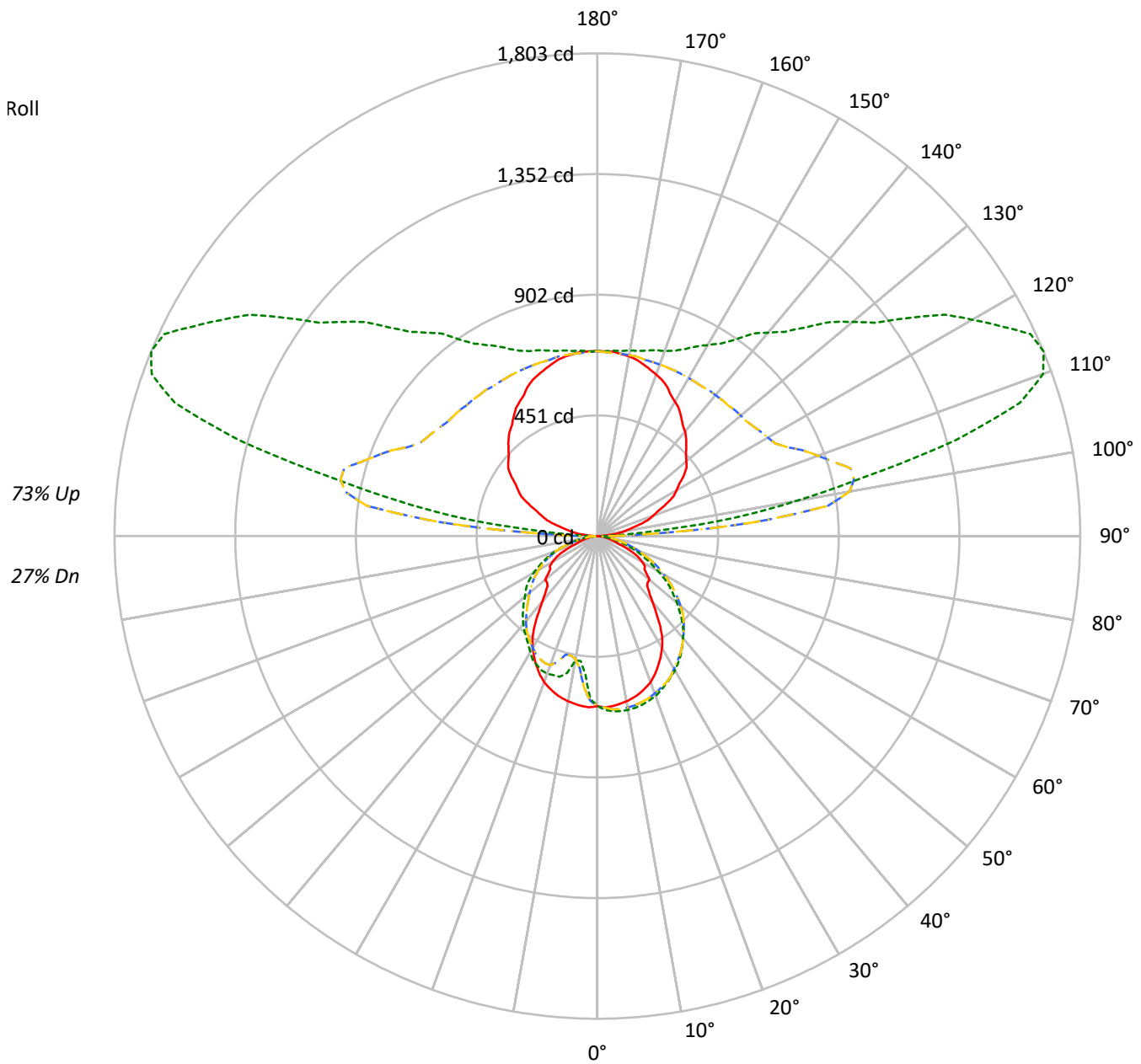
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6125.7 lumens
Efficiency: N/A
Efficacy: 128.7 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): 47.6
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: P935458
CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-3500K

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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27			27
1	93	88	85	81	83	79	76	73	62	60	58	46	44	43	31	30	29	23			23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25	19			19
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21	16			16
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18	14			14
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16	12			12
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14	10			10
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12	9			9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11	8			8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10	7			7
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9	7			7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5890	5890	5890	5890
5°	5926	5945	5926	4675
10°	5881	5856	5881	4187
15°	5810	5729	5810	4784
20°	5682	5579	5682	4794
25°	5427	5359	5427	4692
30°	5099	5177	5099	4470
35°	4539	4947	4539	4225
40°	3775	4677	3775	4039
45°	3367	4360	3367	3826
50°	3569	3981	3569	3612
55°	3347	3574	3347	3489
60°	3440	3035	3440	3195
65°	3103	2509	3103	2803
70°	2135	1999	2135	2352
75°	1850	1478	1850	1770
80°	1460	978	1460	1063
85°	795	517	795	440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5170 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	0.9
10°-20°	162.7	2.7
20°-30°	251.4	4.1
30°-40°	300.2	4.9
40°-50°	301.9	4.9
50°-60°	262.7	4.3
60°-70°	186.3	3.0
70°-80°	98.5	1.6
80°-90°	27.2	0.4
90°-100°	336.7	5.5
100°-110°	885.2	14.4
110°-120°	917.8	15.0
120°-130°	736.2	12.0
130°-140°	577.7	9.4
140°-150°	443.4	7.2
150°-160°	319.3	5.2
160°-170°	195.4	3.2
170°-180°	66.0	1.1
0°-30°	471.4	7.7
0°-40°	771.6	12.6
0°-60°	1336.2	21.8
0°-90°	1648.2	26.9
90°-120°	2139.6	34.9
90°-150°	3896.9	63.6
90°-180°	4478.0	73.1
0°-180°	6125.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	635	635	635	635	635	
5°	638	658	638	517	638	60
15°	609	652	609	544	609	171
25°	536	608	536	532	536	246
35°	408	542	408	463	408	252
45°	263	447	263	392	263	211
55°	214	330	214	322	214	197
65°	149	199	149	222	149	142
75°	56	94	56	113	56	59
85°	10	24	10	20	10	13
90°	5	18	5	18	5	4
95°	44	204	44	204	44	49
105°	160	1386	160	1386	160	169
115°	283	1785	283	1785	283	280
125°	394	1421	394	1421	394	350
135°	470	1103	470	1103	470	363
145°	545	895	545	895	545	341
155°	616	770	616	770	616	283
165°	664	718	664	718	664	187
175°	691	695	691	695	691	66
180°	691	691	691	691	691	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7
2.5°	640.1	640.1	643.6	644.9	644.9	643.1	641.3	643.1	648.5	650.3	649.6
5°	637.6	642.5	649.1	650.3	651.5	650.9	649.6	650.9	656.9	658.1	658.7
7.5°	632.9	641.8	650.3	652.1	653.8	652.1	651.5	652.7	658.7	659.8	659.8
10°	626.9	639.4	649.1	650.3	652.1	650.3	650.3	652.7	658.7	659.8	660.5
12.5°	618.5	635.9	644.9	646.1	648.5	647.8	647.3	649.6	655.7	656.9	656.9
15°	608.8	629.2	637.6	638.9	643.1	641.8	641.8	644.3	650.9	652.7	652.1
17.5°	595.7	620.9	630.5	632.3	635.3	634.7	635.3	637.6	643.6	644.9	645.5
20°	580.6	609.4	620.9	622.7	625.6	625.6	625.6	628.7	634.7	637.1	637.1
22.5°	560.2	597.4	609.4	610.7	614.3	614.3	615.4	619.6	625.0	625.6	625.6
25°	536.2	584.2	594.4	598.1	601.6	603.4	605.2	607.6	609.4	608.8	609.4
27.5°	511.0	567.4	580.6	583.0	587.9	589.7	592.1	592.6	593.2	595.0	593.9
30°	482.8	544.0	563.8	566.2	574.0	575.2	572.8	574.0	577.0	578.2	579.4
32.5°	451.0	509.2	546.4	551.8	559.0	555.5	554.8	556.6	561.5	561.5	562.6
35°	407.7	482.1	530.2	535.0	540.4	536.2	538.6	539.2	542.2	544.0	543.4
37.5°	360.3	458.8	513.4	517.0	521.2	515.8	519.4	521.2	523.6	522.4	522.4
40°	318.2	422.1	493.6	496.0	499.6	495.4	499.0	500.2	501.4	500.2	499.6
42.5°	287.0	381.9	472.5	475.6	473.2	476.1	477.4	479.8	477.9	475.6	475.6
45°	263.0	371.1	449.7	453.3	449.7	454.5	456.3	456.3	451.0	449.7	449.1
47.5°	255.2	349.4	426.9	426.9	425.1	431.1	434.1	429.9	424.6	422.7	422.7
50°	254.6	325.4	395.7	393.3	401.7	408.9	405.9	401.7	397.5	390.9	390.9
52.5°	231.2	296.0	355.4	364.5	377.6	381.9	377.1	372.9	365.6	362.7	360.3
55°	214.3	265.4	318.8	336.8	350.7	356.1	347.0	342.8	332.1	330.3	329.0
57.5°	210.8	221.0	285.2	308.0	324.8	324.3	318.8	311.0	302.0	300.2	299.7
60°	193.4	159.7	249.2	276.2	293.6	291.8	287.0	279.8	271.4	270.2	269.0
62.5°	175.3	115.9	208.3	239.0	263.6	263.0	258.8	248.0	242.0	239.0	236.5
65°	148.9	97.2	148.4	198.8	234.2	235.4	226.3	218.5	211.9	208.3	207.7
67.5°	113.5	79.2	100.3	165.7	205.9	204.8	193.4	189.7	181.3	179.5	175.9
70°	84.1	52.8	69.7	134.5	178.3	175.3	166.3	162.1	154.4	150.1	147.7
72.5°	69.7	42.6	51.0	104.5	150.1	146.5	138.7	133.9	127.3	123.7	121.3
75°	56.4	45.0	39.0	77.4	121.9	119.5	112.3	107.4	102.1	97.2	97.9
77.5°	41.5	42.0	31.2	57.0	96.7	93.1	88.9	82.9	80.5	75.7	75.7
80°	31.2	33.0	23.5	39.0	69.7	69.7	66.1	61.9	57.7	55.2	55.2
82.5°	21.0	21.0	17.4	24.6	47.5	45.7	43.2	42.0	39.7	38.4	38.4
85°	9.6	12.0	10.8	15.0	25.8	27.0	27.0	25.8	25.2	24.0	24.6
87.5°	3.0	5.4	6.6	8.4	13.3	13.8	14.4	14.4	14.4	15.0	15.0
90°	4.7	8.3	12.1	13.0	20.4	30.3	35.2	31.2	23.5	17.6	17.6
92.5°	18.5	50.0	81.6	89.4	125.8	174.2	198.4	173.9	124.9	88.1	84.6
95°	44.5	102.2	159.9	174.3	309.5	489.7	579.9	517.5	392.7	299.0	288.4
97.5°	76.9	127.8	178.7	191.4	416.9	717.4	867.7	828.3	749.4	690.2	670.1
100°	102.0	148.2	194.3	205.8	456.0	789.5	956.3	959.1	965.0	969.3	945.2
102.5°	123.3	166.3	209.4	220.2	473.9	812.2	981.4	1031.7	1132.2	1207.6	1187.0
105°	159.5	196.0	232.4	241.6	487.2	814.8	978.6	1091.3	1316.6	1485.7	1474.6
107.5°	196.5	230.5	264.6	273.1	489.7	778.6	923.0	1080.2	1394.5	1630.3	1633.0
110°	221.6	252.3	282.9	290.6	486.0	746.4	876.6	1052.3	1403.8	1667.4	1679.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	246.1	275.4	304.6	311.9	486.1	718.3	834.4	1014.3	1374.0	1643.8	1661.5
115°	283.2	310.2	337.3	344.0	490.6	686.1	783.8	957.1	1303.7	1563.6	1588.1
117.5°	319.9	344.4	369.0	375.0	499.8	666.0	749.1	905.4	1218.2	1452.7	1480.0
120°	341.2	364.3	387.4	393.1	507.2	659.2	735.2	878.1	1163.8	1378.2	1404.7
122.5°	362.1	385.3	408.6	414.4	517.8	655.6	724.6	853.2	1110.5	1303.5	1329.6
125°	394.0	415.2	436.5	441.7	532.2	652.7	712.9	822.3	1040.8	1204.7	1228.8
127.5°	420.0	441.4	462.8	468.2	546.5	651.0	703.2	797.0	984.8	1125.5	1145.8
130°	433.9	457.0	480.1	485.8	557.1	652.1	699.5	783.0	950.1	1075.4	1094.2
132.5°	448.3	471.4	494.5	500.2	565.6	652.7	696.3	771.0	920.6	1032.8	1049.6
135°	469.6	490.6	511.6	516.9	574.8	652.1	690.7	753.4	878.7	972.6	987.1
137.5°	491.3	512.1	533.0	538.2	588.7	656.1	689.7	742.7	848.6	928.0	939.8
140°	509.4	528.6	547.8	552.6	597.3	656.8	686.5	732.3	823.8	892.4	903.5
142.5°	523.3	541.0	558.8	563.2	604.3	659.1	686.5	726.7	807.0	867.3	876.8
145°	544.7	560.1	575.6	579.4	613.6	659.1	681.9	714.7	780.4	829.8	837.0
147.5°	566.0	581.1	596.1	599.9	627.2	663.6	681.9	707.7	759.5	798.3	804.3
150°	579.9	593.5	607.1	610.5	634.3	666.0	681.9	703.7	747.4	780.2	785.0
152.5°	594.3	604.6	614.9	617.5	639.0	667.5	681.9	700.5	737.8	765.8	769.4
155°	615.6	623.2	630.8	632.7	649.1	670.9	681.9	696.7	726.4	748.7	751.1
157.5°	631.4	638.8	646.1	648.0	659.3	674.3	681.9	693.4	716.5	733.8	735.5
160°	642.0	647.8	653.6	655.0	664.0	675.9	681.9	691.7	711.5	726.4	727.4
162.5°	652.7	657.0	661.4	662.4	668.9	677.6	681.9	690.2	706.9	719.5	720.4
165°	664.2	668.2	672.1	673.1	676.1	679.9	681.9	687.9	699.8	708.7	709.7
167.5°	675.0	676.8	678.6	679.1	681.6	684.9	686.5	690.5	698.3	704.2	704.6
170°	681.9	683.7	685.6	686.1	686.3	686.4	686.5	690.5	698.3	704.2	704.2
172.5°	685.6	686.0	686.4	686.5	686.5	686.5	686.5	689.6	695.7	700.4	700.0
175°	690.7	690.7	690.7	690.7	689.3	687.4	686.5	688.5	692.3	695.3	695.3
177.5°	690.7	690.7	690.7	690.7	689.7	688.1	687.4	688.9	692.1	694.4	694.0
180°	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7
2.5°	650.9	649.1	650.9	649.6	650.3	648.5	643.1	641.3	643.1	644.9	644.9
5°	658.7	657.5	658.7	658.7	658.1	656.9	650.9	649.6	650.9	651.5	650.3
7.5°	661.1	659.3	661.1	659.8	659.8	658.7	652.7	651.5	652.1	653.8	652.1
10°	661.1	659.3	661.1	660.5	659.8	658.7	652.7	650.3	650.3	652.1	650.3
12.5°	658.1	656.9	658.1	656.9	656.9	655.7	649.6	647.3	647.8	648.5	646.1
15°	653.3	651.5	653.3	652.1	652.7	650.9	644.3	641.8	641.8	643.1	638.9
17.5°	646.1	643.6	646.1	645.5	644.9	643.6	637.6	635.3	634.7	635.3	632.3
20°	637.6	635.9	637.6	637.1	637.1	634.7	628.7	625.6	625.6	625.6	622.7
22.5°	624.5	622.7	624.5	625.6	625.6	625.0	619.6	615.4	614.3	614.3	610.7
25°	609.4	607.6	609.4	609.4	608.8	609.4	607.6	605.2	603.4	601.6	598.1
27.5°	595.0	593.9	595.0	593.9	595.0	593.2	592.6	592.1	589.7	587.9	583.0
30°	580.6	579.4	580.6	579.4	578.2	577.0	574.0	572.8	575.2	574.0	566.2
32.5°	562.6	561.5	562.6	562.6	561.5	561.5	556.6	554.8	555.5	559.0	551.8
35°	544.0	542.2	544.0	543.4	544.0	542.2	539.2	538.6	536.2	540.4	535.0
37.5°	522.4	520.6	522.4	522.4	522.4	523.6	521.2	519.4	515.8	521.2	517.0
40°	500.2	497.8	500.2	499.6	500.2	501.4	500.2	499.0	495.4	499.6	496.0
42.5°	475.0	474.3	475.0	475.6	475.6	477.9	479.8	477.4	476.1	473.2	475.6
45°	447.9	446.8	447.9	449.1	449.7	451.0	456.3	456.3	454.5	449.7	453.3
47.5°	419.1	416.1	419.1	422.7	422.7	424.6	429.9	434.1	431.1	425.1	426.9
50°	388.5	389.1	388.5	390.9	390.9	397.5	401.7	405.9	408.9	401.7	393.3
52.5°	358.5	357.9	358.5	360.3	362.7	365.6	372.9	377.1	381.9	377.6	364.5
55°	328.4	329.7	328.4	329.0	330.3	332.1	342.8	347.0	356.1	350.7	336.8
57.5°	298.4	296.6	298.4	299.7	300.2	302.0	311.0	318.8	324.3	324.8	308.0
60°	263.6	261.2	263.6	269.0	270.2	271.4	279.8	287.0	291.8	293.6	276.2
62.5°	233.0	228.8	233.0	236.5	239.0	242.0	248.0	258.8	263.0	263.6	239.0
65°	200.5	198.8	200.5	207.7	208.3	211.9	218.5	226.3	235.4	234.2	198.8
67.5°	171.1	171.1	171.1	175.9	179.5	181.3	189.7	193.4	204.8	205.9	165.7
70°	144.1	143.5	144.1	147.7	150.1	154.4	162.1	166.3	175.3	178.3	134.5
72.5°	118.3	117.6	118.3	121.3	123.7	127.3	133.9	138.7	146.5	150.1	104.5
75°	95.4	94.3	95.4	97.9	97.2	102.1	107.4	112.3	119.5	121.9	77.4
77.5°	73.2	73.2	73.2	75.7	75.7	80.5	82.9	88.9	93.1	96.7	57.0
80°	54.6	54.1	54.6	55.2	55.2	57.7	61.9	66.1	69.7	69.7	39.0
82.5°	38.4	37.2	38.4	38.4	38.4	39.7	42.0	43.2	45.7	47.5	24.6
85°	24.0	24.0	24.0	24.6	24.0	25.2	25.8	27.0	27.0	25.8	15.0
87.5°	15.6	15.0	15.6	15.0	15.0	14.4	14.4	14.4	13.8	13.3	8.4
90°	17.6	17.6	17.6	17.6	17.6	23.5	31.2	35.2	30.3	20.4	13.0
92.5°	70.6	56.6	70.6	84.6	88.1	124.9	173.9	198.4	174.2	125.8	89.4
95°	245.9	203.5	245.9	288.4	299.0	392.7	517.5	579.9	489.7	309.5	174.3
97.5°	589.3	508.5	589.3	670.1	690.2	749.4	828.3	867.7	717.4	416.9	191.4
100°	849.0	752.8	849.0	945.2	969.3	965.0	959.1	956.3	789.5	456.0	205.8
102.5°	1104.5	1022.2	1104.5	1187.0	1207.6	1132.2	1031.7	981.4	812.2	473.9	220.2
105°	1430.4	1386.0	1430.4	1474.6	1485.7	1316.6	1091.3	978.6	814.8	487.2	241.6
107.5°	1643.7	1654.4	1643.7	1633.0	1630.3	1394.5	1080.2	923.0	778.6	489.7	273.1
110°	1725.1	1771.2	1725.1	1679.0	1667.4	1403.8	1052.3	876.6	746.4	486.0	290.6



TEST NUMBER: P935458

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1732.3	1803.2	1732.3	1661.5	1643.8	1374.0	1014.3	834.4	718.3	486.1	311.9
115°	1686.4	1784.7	1686.4	1588.1	1563.6	1303.7	957.1	783.8	686.1	490.6	344.0
117.5°	1589.0	1698.0	1589.0	1480.0	1452.7	1218.2	905.4	749.1	666.0	499.8	375.0
120°	1510.5	1616.4	1510.5	1404.7	1378.2	1163.8	878.1	735.2	659.2	507.2	393.1
122.5°	1434.0	1538.5	1434.0	1329.6	1303.5	1110.5	853.2	724.6	655.6	517.8	414.4
125°	1325.0	1421.2	1325.0	1228.8	1204.7	1040.8	822.3	712.9	652.7	532.2	441.7
127.5°	1226.9	1308.1	1226.9	1145.8	1125.5	984.8	797.0	703.2	651.0	546.5	468.2
130°	1169.2	1244.2	1169.2	1094.2	1075.4	950.1	783.0	699.5	652.1	557.1	485.8
132.5°	1116.7	1183.9	1116.7	1049.6	1032.8	920.6	771.0	696.3	652.7	565.6	500.2
135°	1044.9	1102.8	1044.9	987.1	972.6	878.7	753.4	690.7	652.1	574.8	516.9
137.5°	987.3	1034.6	987.3	939.8	928.0	848.6	742.7	689.7	656.1	588.7	538.2
140°	947.7	992.0	947.7	903.5	892.4	823.8	732.3	686.5	656.8	597.3	552.6
142.5°	914.9	953.1	914.9	876.8	867.3	807.0	726.7	686.5	659.1	604.3	563.2
145°	865.9	894.7	865.9	837.0	829.8	780.4	714.7	681.9	659.1	613.6	579.4
147.5°	828.1	852.0	828.1	804.3	798.3	759.5	707.7	681.9	663.6	627.2	599.9
150°	804.4	823.8	804.4	785.0	780.2	747.4	703.7	681.9	666.0	634.3	610.5
152.5°	784.0	798.7	784.0	769.4	765.8	737.8	700.5	681.9	667.5	639.0	617.5
155°	760.7	770.4	760.7	751.1	748.7	726.4	696.7	681.9	670.9	649.1	632.7
157.5°	742.3	749.1	742.3	735.5	733.8	716.5	693.4	681.9	674.3	659.3	648.0
160°	731.3	735.2	731.3	727.4	726.4	711.5	691.7	681.9	675.9	664.0	655.0
162.5°	724.1	727.8	724.1	720.4	719.5	706.9	690.2	681.9	677.6	668.9	662.4
165°	713.7	717.6	713.7	709.7	708.7	699.8	687.9	681.9	679.9	676.1	673.1
167.5°	706.2	707.8	706.2	704.6	704.2	698.3	690.5	686.5	684.9	681.6	679.1
170°	704.2	704.2	704.2	704.2	704.2	698.3	690.5	686.5	686.4	686.3	686.1
172.5°	698.6	697.2	698.6	700.0	700.4	695.7	689.6	686.5	686.5	686.5	686.5
175°	695.3	695.3	695.3	695.3	695.3	692.3	688.5	686.5	687.4	689.3	690.7
177.5°	692.3	690.7	692.3	694.0	694.4	692.1	688.9	687.4	688.1	689.7	690.7
180°	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7



TEST NUMBER: P935458

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7
2.5°	643.6	640.1	640.1	634.1	631.6	629.9	626.9	617.9	615.4	613.0	616.7
5°	649.1	642.5	637.6	626.9	617.9	614.3	602.8	581.2	566.8	556.0	550.0
7.5°	650.3	641.8	632.9	616.1	594.4	584.8	550.0	510.4	499.6	490.0	483.9
10°	649.1	639.4	626.9	601.6	550.6	533.8	499.0	473.2	466.5	464.8	466.5
12.5°	644.9	635.9	618.5	576.4	505.0	493.6	473.2	458.1	457.0	459.9	476.1
15°	637.6	629.2	608.8	542.8	479.8	471.4	457.0	451.5	458.1	479.2	527.8
17.5°	630.5	620.9	595.7	509.8	460.5	454.5	444.3	455.2	492.3	520.6	536.8
20°	620.9	609.4	580.6	485.8	446.8	441.3	436.6	485.2	513.4	523.6	532.6
22.5°	609.4	597.4	560.2	469.0	432.3	428.1	431.1	502.0	513.4	520.6	528.4
25°	594.4	584.2	536.2	455.7	420.9	416.1	427.5	500.2	506.7	508.5	524.2
27.5°	580.6	567.4	511.0	443.7	407.1	405.3	430.6	492.3	497.2	499.0	515.8
30°	563.8	544.0	482.8	431.1	392.7	392.1	431.1	482.8	481.6	486.3	503.2
32.5°	546.4	509.2	451.0	415.5	378.9	378.3	426.9	468.3	467.2	473.7	486.3
35°	530.2	482.1	407.7	397.5	361.4	362.1	416.7	451.5	452.1	458.1	465.9
37.5°	513.4	458.8	360.3	377.6	344.7	344.7	402.9	435.9	434.8	436.6	447.3
40°	493.6	422.1	318.2	351.9	329.0	327.2	386.1	419.1	414.9	414.4	429.3
42.5°	472.5	381.9	287.0	317.7	311.0	308.6	365.6	398.7	390.9	392.7	411.9
45°	449.7	371.1	263.0	268.4	292.4	290.6	343.4	375.3	369.9	374.7	394.5
47.5°	426.9	349.4	255.2	222.8	272.6	272.0	318.8	352.5	349.4	354.3	375.3
50°	395.7	325.4	254.6	191.0	250.4	252.7	289.5	330.3	330.3	334.5	356.7
52.5°	355.4	296.0	231.2	172.9	224.5	231.8	263.6	311.0	312.2	316.4	336.3
55°	318.8	265.4	214.3	159.1	193.9	209.6	238.3	291.2	293.6	297.8	315.9
57.5°	285.2	221.0	210.8	142.9	165.7	180.8	216.1	272.0	273.2	276.8	294.2
60°	249.2	159.7	193.4	125.5	141.1	152.5	195.7	249.2	253.4	255.8	270.8
62.5°	208.3	115.9	175.3	113.5	129.1	131.5	179.0	227.6	233.0	234.8	243.8
65°	148.4	97.2	148.9	103.3	116.5	117.1	160.9	205.4	210.1	213.2	219.8
67.5°	100.3	79.2	113.5	93.6	106.9	107.4	143.5	179.5	186.1	188.6	192.8
70°	69.7	52.8	84.1	83.4	96.1	97.2	124.9	156.1	162.1	163.9	166.3
72.5°	51.0	42.6	69.7	75.0	84.7	85.9	105.6	129.7	135.7	137.5	138.7
75°	39.0	45.0	56.4	65.4	72.1	72.6	86.5	105.6	109.9	111.1	111.6
77.5°	31.2	42.0	41.5	52.8	58.8	57.7	67.9	81.7	85.2	85.2	85.2
80°	23.5	33.0	31.2	37.9	43.2	42.0	48.6	58.3	59.4	60.6	60.1
82.5°	17.4	21.0	21.0	24.0	28.8	27.7	32.4	37.9	37.9	37.9	39.0
85°	10.8	12.0	9.6	12.6	16.2	15.6	18.0	20.4	21.0	21.0	19.8
87.5°	6.6	5.4	3.0	4.8	7.2	7.2	8.4	9.0	8.4	8.4	8.4
90°	12.1	8.3	4.7	8.3	12.1	13.0	20.4	30.3	35.2	31.2	23.5
92.5°	81.6	50.0	18.5	50.0	81.6	89.4	125.8	174.2	198.4	173.9	124.9
95°	159.9	102.2	44.5	102.2	159.9	174.3	309.5	489.7	579.9	517.5	392.7
97.5°	178.7	127.8	76.9	127.8	178.7	191.4	416.9	717.4	867.7	828.3	749.4
100°	194.3	148.2	102.0	148.2	194.3	205.8	456.0	789.5	956.3	959.1	965.0
102.5°	209.4	166.3	123.3	166.3	209.4	220.2	473.9	812.2	981.4	1031.7	1132.2
105°	232.4	196.0	159.5	196.0	232.4	241.6	487.2	814.8	978.6	1091.3	1316.6
107.5°	264.6	230.5	196.5	230.5	264.6	273.1	489.7	778.6	923.0	1080.2	1394.5
110°	282.9	252.3	221.6	252.3	282.9	290.6	486.0	746.4	876.6	1052.3	1403.8



TEST NUMBER: P935458

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	304.6	275.4	246.1	275.4	304.6	311.9	486.1	718.3	834.4	1014.3	1374.0
115°	337.3	310.2	283.2	310.2	337.3	344.0	490.6	686.1	783.8	957.1	1303.7
117.5°	369.0	344.4	319.9	344.4	369.0	375.0	499.8	666.0	749.1	905.4	1218.2
120°	387.4	364.3	341.2	364.3	387.4	393.1	507.2	659.2	735.2	878.1	1163.8
122.5°	408.6	385.3	362.1	385.3	408.6	414.4	517.8	655.6	724.6	853.2	1110.5
125°	436.5	415.2	394.0	415.2	436.5	441.7	532.2	652.7	712.9	822.3	1040.8
127.5°	462.8	441.4	420.0	441.4	462.8	468.2	546.5	651.0	703.2	797.0	984.8
130°	480.1	457.0	433.9	457.0	480.1	485.8	557.1	652.1	699.5	783.0	950.1
132.5°	494.5	471.4	448.3	471.4	494.5	500.2	565.6	652.7	696.3	771.0	920.6
135°	511.6	490.6	469.6	490.6	511.6	516.9	574.8	652.1	690.7	753.4	878.7
137.5°	533.0	512.1	491.3	512.1	533.0	538.2	588.7	656.1	689.7	742.7	848.6
140°	547.8	528.6	509.4	528.6	547.8	552.6	597.3	656.8	686.5	732.3	823.8
142.5°	558.8	541.0	523.3	541.0	558.8	563.2	604.3	659.1	686.5	726.7	807.0
145°	575.6	560.1	544.7	560.1	575.6	579.4	613.6	659.1	681.9	714.7	780.4
147.5°	596.1	581.1	566.0	581.1	596.1	599.9	627.2	663.6	681.9	707.7	759.5
150°	607.1	593.5	579.9	593.5	607.1	610.5	634.3	666.0	681.9	703.7	747.4
152.5°	614.9	604.6	594.3	604.6	614.9	617.5	639.0	667.5	681.9	700.5	737.8
155°	630.8	623.2	615.6	623.2	630.8	632.7	649.1	670.9	681.9	696.7	726.4
157.5°	646.1	638.8	631.4	638.8	646.1	648.0	659.3	674.3	681.9	693.4	716.5
160°	653.6	647.8	642.0	647.8	653.6	655.0	664.0	675.9	681.9	691.7	711.5
162.5°	661.4	657.0	652.7	657.0	661.4	662.4	668.9	677.6	681.9	690.2	706.9
165°	672.1	668.2	664.2	668.2	672.1	673.1	676.1	679.9	681.9	687.9	699.8
167.5°	678.6	676.8	675.0	676.8	678.6	679.1	681.6	684.9	686.5	690.5	698.3
170°	685.6	683.7	681.9	683.7	685.6	686.1	686.3	686.4	686.5	690.5	698.3
172.5°	686.4	686.0	685.6	686.0	686.4	686.5	686.5	686.5	686.5	689.6	695.7
175°	690.7	690.7	690.7	690.7	690.7	690.7	689.3	687.4	686.5	688.5	692.3
177.5°	690.7	690.7	690.7	690.7	690.7	690.7	689.7	688.1	687.4	688.9	692.1
180°	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7



TEST NUMBER: P935458

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7
2.5°	612.5	610.7	613.0	606.5	613.0	610.7	612.5	616.7	613.0	615.4	617.9
5°	537.4	534.4	524.8	517.0	524.8	534.4	537.4	550.0	556.0	566.8	581.2
7.5°	480.3	477.9	475.6	470.8	475.6	477.9	480.3	483.9	490.0	499.6	510.4
10°	467.7	468.3	471.9	471.4	471.9	468.3	467.7	466.5	464.8	466.5	473.2
12.5°	500.2	505.6	525.4	524.2	525.4	505.6	500.2	476.1	459.9	457.0	458.1
15°	537.4	539.2	543.4	544.0	543.4	539.2	537.4	527.8	479.2	458.1	451.5
17.5°	541.0	541.6	544.6	544.6	544.6	541.6	541.0	536.8	520.6	492.3	455.2
20°	538.0	539.2	545.2	546.4	545.2	539.2	538.0	532.6	523.6	513.4	485.2
22.5°	536.8	539.2	544.0	543.4	544.0	539.2	536.8	528.4	520.6	513.4	502.0
25°	530.8	530.8	531.4	532.0	531.4	530.8	530.8	524.2	508.5	506.7	500.2
27.5°	518.2	519.4	523.0	522.4	523.0	519.4	518.2	515.8	499.0	497.2	492.3
30°	506.7	505.6	502.5	500.2	502.5	505.6	506.7	503.2	486.3	481.6	482.8
32.5°	487.6	484.5	481.6	479.8	481.6	484.5	487.6	486.3	473.7	467.2	468.3
35°	464.8	465.4	464.8	463.0	464.8	465.4	464.8	465.9	458.1	452.1	451.5
37.5°	448.6	449.7	449.1	446.8	449.1	449.7	448.6	447.3	436.6	434.8	435.9
40°	431.7	432.3	431.7	429.9	431.7	432.3	431.7	429.3	414.4	414.9	419.1
42.5°	415.5	414.9	413.1	411.9	413.1	414.9	415.5	411.9	392.7	390.9	398.7
45°	396.9	397.5	393.8	392.1	393.8	397.5	396.9	394.5	374.7	369.9	375.3
47.5°	378.3	378.3	375.3	373.4	375.3	378.3	378.3	375.3	354.3	349.4	352.5
50°	358.5	357.9	353.6	353.0	353.6	357.9	358.5	356.7	334.5	330.3	330.3
52.5°	335.7	335.7	336.3	337.4	336.3	335.7	335.7	336.3	316.4	312.2	311.0
55°	315.9	316.4	320.6	321.9	320.6	316.4	315.9	315.9	297.8	293.6	291.2
57.5°	295.5	295.5	298.4	298.4	298.4	295.5	295.5	294.2	276.8	273.2	272.0
60°	272.0	273.2	275.6	275.0	275.6	273.2	272.0	270.8	255.8	253.4	249.2
62.5°	247.4	248.6	249.2	248.0	249.2	248.6	247.4	243.8	234.8	233.0	227.6
65°	221.6	222.8	223.4	222.1	223.4	222.8	221.6	219.8	213.2	210.1	205.4
67.5°	195.2	194.6	193.9	196.3	193.9	194.6	195.2	192.8	188.6	186.1	179.5
70°	168.1	168.1	167.5	168.8	167.5	168.1	168.1	166.3	163.9	162.1	156.1
72.5°	139.3	138.7	141.1	139.3	141.1	138.7	139.3	138.7	137.5	135.7	129.7
75°	111.1	112.3	111.1	112.9	111.1	112.3	111.1	111.6	111.1	109.9	105.6
77.5°	84.7	85.9	84.7	84.7	84.7	85.9	84.7	85.2	85.2	85.2	81.7
80°	60.1	59.4	59.4	58.8	59.4	59.4	60.1	60.1	60.6	59.4	58.3
82.5°	38.4	37.9	37.9	39.0	37.9	37.9	38.4	39.0	37.9	37.9	37.9
85°	21.0	21.6	20.4	20.4	20.4	21.6	21.0	19.8	21.0	21.0	20.4
87.5°	7.8	7.2	7.2	7.2	7.2	7.2	7.8	8.4	8.4	8.4	9.0
90°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23.5	31.2	35.2	30.3
92.5°	88.1	84.6	70.6	56.6	70.6	84.6	88.1	124.9	173.9	198.4	174.2
95°	299.0	288.4	245.9	203.5	245.9	288.4	299.0	392.7	517.5	579.9	489.7
97.5°	690.2	670.1	589.3	508.5	589.3	670.1	690.2	749.4	828.3	867.7	717.4
100°	969.3	945.2	849.0	752.8	849.0	945.2	969.3	965.0	959.1	956.3	789.5
102.5°	1207.6	1187.0	1104.5	1022.2	1104.5	1187.0	1207.6	1132.2	1031.7	981.4	812.2
105°	1485.7	1474.6	1430.4	1386.0	1430.4	1474.6	1485.7	1316.6	1091.3	978.6	814.8
107.5°	1630.3	1633.0	1643.7	1654.4	1643.7	1633.0	1630.3	1394.5	1080.2	923.0	778.6
110°	1667.4	1679.0	1725.1	1771.2	1725.1	1679.0	1667.4	1403.8	1052.3	876.6	746.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1643.8	1661.5	1732.3	1803.2	1732.3	1661.5	1643.8	1374.0	1014.3	834.4	718.3
115°	1563.6	1588.1	1686.4	1784.7	1686.4	1588.1	1563.6	1303.7	957.1	783.8	686.1
117.5°	1452.7	1480.0	1589.0	1698.0	1589.0	1480.0	1452.7	1218.2	905.4	749.1	666.0
120°	1378.2	1404.7	1510.5	1616.4	1510.5	1404.7	1378.2	1163.8	878.1	735.2	659.2
122.5°	1303.5	1329.6	1434.0	1538.5	1434.0	1329.6	1303.5	1110.5	853.2	724.6	655.6
125°	1204.7	1228.8	1325.0	1421.2	1325.0	1228.8	1204.7	1040.8	822.3	712.9	652.7
127.5°	1125.5	1145.8	1226.9	1308.1	1226.9	1145.8	1125.5	984.8	797.0	703.2	651.0
130°	1075.4	1094.2	1169.2	1244.2	1169.2	1094.2	1075.4	950.1	783.0	699.5	652.1
132.5°	1032.8	1049.6	1116.7	1183.9	1116.7	1049.6	1032.8	920.6	771.0	696.3	652.7
135°	972.6	987.1	1044.9	1102.8	1044.9	987.1	972.6	878.7	753.4	690.7	652.1
137.5°	928.0	939.8	987.3	1034.6	987.3	939.8	928.0	848.6	742.7	689.7	656.1
140°	892.4	903.5	947.7	992.0	947.7	903.5	892.4	823.8	732.3	686.5	656.8
142.5°	867.3	876.8	914.9	953.1	914.9	876.8	867.3	807.0	726.7	686.5	659.1
145°	829.8	837.0	865.9	894.7	865.9	837.0	829.8	780.4	714.7	681.9	659.1
147.5°	798.3	804.3	828.1	852.0	828.1	804.3	798.3	759.5	707.7	681.9	663.6
150°	780.2	785.0	804.4	823.8	804.4	785.0	780.2	747.4	703.7	681.9	666.0
152.5°	765.8	769.4	784.0	798.7	784.0	769.4	765.8	737.8	700.5	681.9	667.5
155°	748.7	751.1	760.7	770.4	760.7	751.1	748.7	726.4	696.7	681.9	670.9
157.5°	733.8	735.5	742.3	749.1	742.3	735.5	733.8	716.5	693.4	681.9	674.3
160°	726.4	727.4	731.3	735.2	731.3	727.4	726.4	711.5	691.7	681.9	675.9
162.5°	719.5	720.4	724.1	727.8	724.1	720.4	719.5	706.9	690.2	681.9	677.6
165°	708.7	709.7	713.7	717.6	713.7	709.7	708.7	699.8	687.9	681.9	679.9
167.5°	704.2	704.6	706.2	707.8	706.2	704.6	704.2	698.3	690.5	686.5	684.9
170°	704.2	704.2	704.2	704.2	704.2	704.2	704.2	698.3	690.5	686.5	686.4
172.5°	700.4	700.0	698.6	697.2	698.6	700.0	700.4	695.7	689.6	686.5	686.5
175°	695.3	695.3	695.3	695.3	695.3	695.3	695.3	692.3	688.5	686.5	687.4
177.5°	694.4	694.0	692.3	690.7	692.3	694.0	694.4	692.1	688.9	687.4	688.1
180°	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	634.7	634.7	634.7	634.7	634.7
2.5°	626.9	629.9	631.6	634.1	640.1
5°	602.8	614.3	617.9	626.9	637.6
7.5°	550.0	584.8	594.4	616.1	632.9
10°	499.0	533.8	550.6	601.6	626.9
12.5°	473.2	493.6	505.0	576.4	618.5
15°	457.0	471.4	479.8	542.8	608.8
17.5°	444.3	454.5	460.5	509.8	595.7
20°	436.6	441.3	446.8	485.8	580.6
22.5°	431.1	428.1	432.3	469.0	560.2
25°	427.5	416.1	420.9	455.7	536.2
27.5°	430.6	405.3	407.1	443.7	511.0
30°	431.1	392.1	392.7	431.1	482.8
32.5°	426.9	378.3	378.9	415.5	451.0
35°	416.7	362.1	361.4	397.5	407.7
37.5°	402.9	344.7	344.7	377.6	360.3
40°	386.1	327.2	329.0	351.9	318.2
42.5°	365.6	308.6	311.0	317.7	287.0
45°	343.4	290.6	292.4	268.4	263.0
47.5°	318.8	272.0	272.6	222.8	255.2
50°	289.5	252.7	250.4	191.0	254.6
52.5°	263.6	231.8	224.5	172.9	231.2
55°	238.3	209.6	193.9	159.1	214.3
57.5°	216.1	180.8	165.7	142.9	210.8
60°	195.7	152.5	141.1	125.5	193.4
62.5°	179.0	131.5	129.1	113.5	175.3
65°	160.9	117.1	116.5	103.3	148.9
67.5°	143.5	107.4	106.9	93.6	113.5
70°	124.9	97.2	96.1	83.4	84.1
72.5°	105.6	85.9	84.7	75.0	69.7
75°	86.5	72.6	72.1	65.4	56.4
77.5°	67.9	57.7	58.8	52.8	41.5
80°	48.6	42.0	43.2	37.9	31.2
82.5°	32.4	27.7	28.8	24.0	21.0
85°	18.0	15.6	16.2	12.6	9.6
87.5°	8.4	7.2	7.2	4.8	3.0
90°	20.4	13.0	12.1	8.3	4.7
92.5°	125.8	89.4	81.6	50.0	18.5
95°	309.5	174.3	159.9	102.2	44.5
97.5°	416.9	191.4	178.7	127.8	76.9
100°	456.0	205.8	194.3	148.2	102.0
102.5°	473.9	220.2	209.4	166.3	123.3
105°	487.2	241.6	232.4	196.0	159.5
107.5°	489.7	273.1	264.6	230.5	196.5
110°	486.0	290.6	282.9	252.3	221.6



TEST NUMBER: P935458

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	486.1	311.9	304.6	275.4	246.1
115°	490.6	344.0	337.3	310.2	283.2
117.5°	499.8	375.0	369.0	344.4	319.9
120°	507.2	393.1	387.4	364.3	341.2
122.5°	517.8	414.4	408.6	385.3	362.1
125°	532.2	441.7	436.5	415.2	394.0
127.5°	546.5	468.2	462.8	441.4	420.0
130°	557.1	485.8	480.1	457.0	433.9
132.5°	565.6	500.2	494.5	471.4	448.3
135°	574.8	516.9	511.6	490.6	469.6
137.5°	588.7	538.2	533.0	512.1	491.3
140°	597.3	552.6	547.8	528.6	509.4
142.5°	604.3	563.2	558.8	541.0	523.3
145°	613.6	579.4	575.6	560.1	544.7
147.5°	627.2	599.9	596.1	581.1	566.0
150°	634.3	610.5	607.1	593.5	579.9
152.5°	639.0	617.5	614.9	604.6	594.3
155°	649.1	632.7	630.8	623.2	615.6
157.5°	659.3	648.0	646.1	638.8	631.4
160°	664.0	655.0	653.6	647.8	642.0
162.5°	668.9	662.4	661.4	657.0	652.7
165°	676.1	673.1	672.1	668.2	664.2
167.5°	681.6	679.1	678.6	676.8	675.0
170°	686.3	686.1	685.6	683.7	681.9
172.5°	686.5	686.5	686.4	686.0	685.6
175°	689.3	690.7	690.7	690.7	690.7
177.5°	689.7	690.7	690.7	690.7	690.7
180°	690.7	690.7	690.7	690.7	690.7



TEST NUMBER: P935458
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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	8.30	8.98	9.43	10.11	11.68	11.10	11.78	12.23	12.91	14.47
	3H	8.76	9.37	9.90	10.51	12.09	12.42	13.03	13.56	14.17	15.75
	4H	8.94	9.53	10.09	10.66	12.25	12.85	13.43	14.00	14.56	16.15
	6H	9.05	9.59	10.21	10.73	12.32	13.11	13.65	14.27	14.79	16.39
	8H	9.05	9.56	10.21	10.71	12.30	13.18	13.69	14.34	14.84	16.43
	12H	9.01	9.50	10.18	10.64	12.26	13.21	13.69	14.37	14.84	16.45
4H	2H	9.30	9.88	10.46	11.02	12.60	11.49	12.07	12.64	13.20	14.79
	3H	10.31	10.80	11.47	11.95	13.55	12.96	13.45	14.13	14.61	16.21
	4H	10.58	11.03	11.74	12.17	13.79	13.48	13.93	14.64	15.07	16.69
	6H	10.69	11.08	11.86	12.25	13.86	13.82	14.21	15.00	15.38	16.99
	8H	10.70	11.05	11.87	12.21	13.84	13.92	14.28	15.09	15.44	17.07
	12H	10.65	10.98	11.84	12.15	13.78	13.97	14.29	15.15	15.46	17.09
8H	4H	11.01	11.37	12.18	12.53	14.16	13.59	13.95	14.76	15.11	16.73
	6H	11.27	11.56	12.46	12.77	14.39	14.01	14.30	15.20	15.51	17.13
	8H	11.31	11.57	12.50	12.75	14.39	14.16	14.41	15.35	15.59	17.24
	12H	11.28	11.51	12.48	12.69	14.36	14.24	14.47	15.44	15.64	17.32
12H	4H	11.01	11.33	12.20	12.51	14.14	13.55	13.87	14.73	15.04	16.67
	6H	11.33	11.58	12.52	12.76	14.41	14.01	14.26	15.20	15.44	17.09
	8H	11.38	11.61	12.58	12.79	14.46	14.15	14.38	15.35	15.56	17.23