

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: P935882

Luminaire Tested: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935882
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-B2750-1D-UNV-STD-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

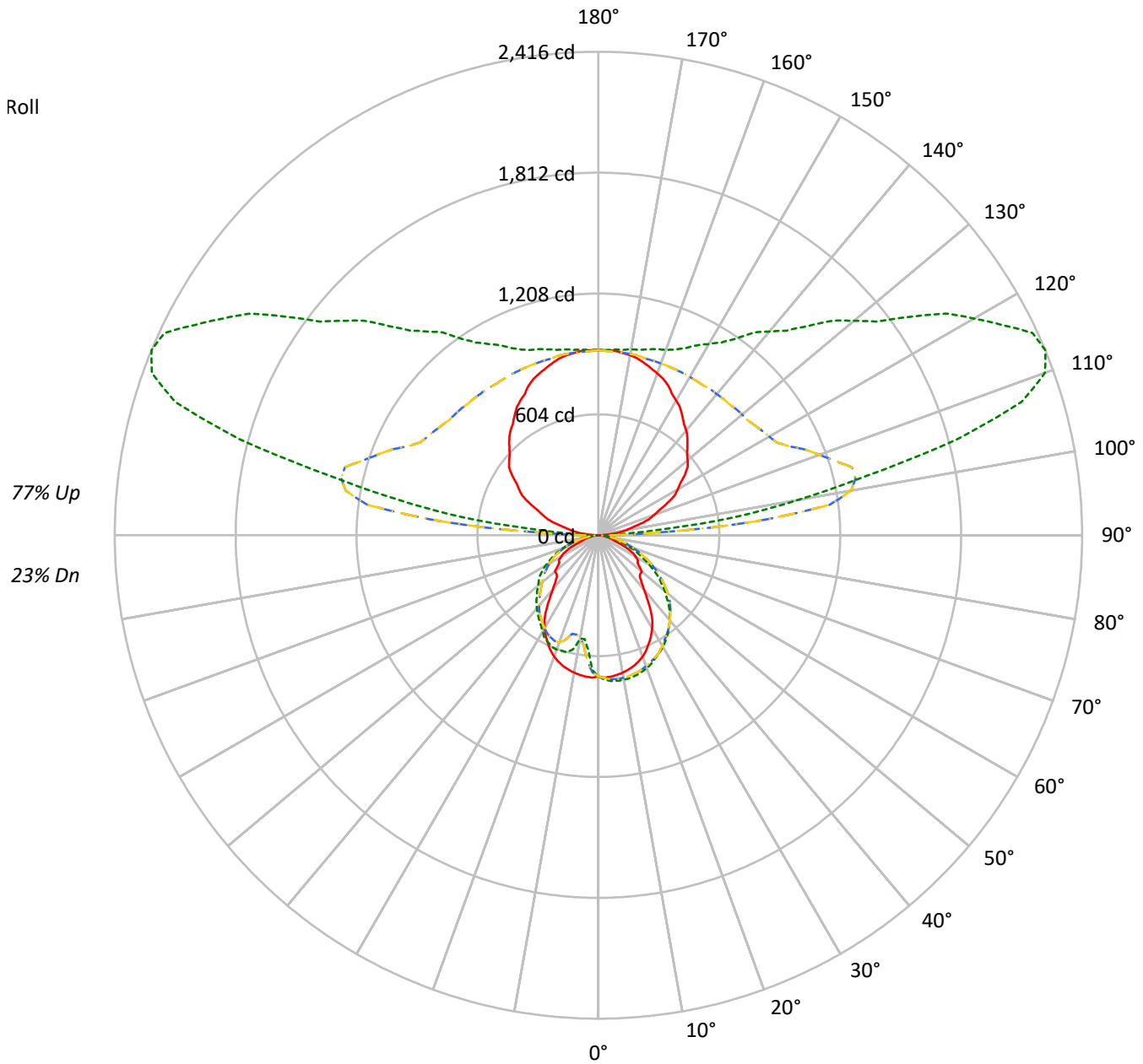
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7834.6 lumens
Efficiency: N/A
Efficacy: 140.9 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 (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-150U-050D-B2750-1D-UNV-STD-W-4-2700K

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
RCR																				
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23		23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20		20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	17		17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14		14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12		12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10		10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9		9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8		8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7		7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6		6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6		6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6552	6552	6552	6552
5°	6593	6614	6593	5200
10°	6542	6515	6542	4658
15°	6463	6374	6463	5322
20°	6321	6206	6321	5333
25°	6037	5962	6037	5220
30°	5672	5760	5672	4973
35°	5050	5504	5050	4699
40°	4200	5203	4200	4494
45°	3745	4850	3745	4255
50°	3971	4429	3971	4018
55°	3724	3975	3724	3882
60°	3826	3375	3826	3555
65°	3451	2791	3451	3119
70°	2374	2225	2374	2615
75°	2056	1645	2056	1969
80°	1629	1088	1629	1182
85°	886	575	886	489

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5752 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	0.8
10°-20°	181.0	2.3
20°-30°	279.7	3.6
30°-40°	333.9	4.3
40°-50°	335.9	4.3
50°-60°	292.3	3.7
60°-70°	207.2	2.6
70°-80°	109.6	1.4
80°-90°	30.8	0.4
90°-100°	451.2	5.8
100°-110°	1186.2	15.1
110°-120°	1230.0	15.7
120°-130°	986.6	12.6
130°-140°	774.1	9.9
140°-150°	594.2	7.6
150°-160°	427.9	5.5
160°-170°	261.8	3.3
170°-180°	88.5	1.1
0°-30°	524.4	6.7
0°-40°	858.3	11.0
0°-60°	1486.5	19.0
0°-90°	1834.2	23.4
90°-120°	2867.4	36.6
90°-150°	5222.2	66.7
90°-180°	6000.0	76.6
0°-180°	7834.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	706	706	706	706	706	
5°	709	732	709	575	709	67
15°	677	725	677	605	677	191
25°	596	676	596	592	596	274
35°	454	603	454	515	454	281
45°	292	497	292	436	292	234
55°	238	367	238	358	238	219
65°	166	221	166	247	166	158
75°	63	105	63	126	63	66
85°	11	27	11	23	11	14
90°	6	24	6	24	6	6
95°	60	273	60	273	60	66
105°	214	1857	214	1857	214	227
115°	380	2392	380	2392	380	375
125°	528	1905	528	1905	528	469
135°	629	1478	629	1478	629	487
145°	730	1199	730	1199	730	457
155°	825	1032	825	1032	825	379
165°	890	962	890	962	890	251
175°	926	932	926	932	926	88
180°	926	926	926	926	926	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1
2.5°	712.0	712.0	716.0	717.4	717.4	715.4	713.4	715.4	721.4	723.4	722.7
5°	709.4	714.7	722.1	723.4	724.8	724.1	722.7	724.1	730.8	732.1	732.8
7.5°	704.1	714.0	723.4	725.4	727.4	725.4	724.8	726.1	732.8	734.1	734.1
10°	697.4	711.3	722.1	723.4	725.4	723.4	723.4	726.1	732.8	734.1	734.7
12.5°	688.0	707.4	717.4	718.7	721.4	720.7	720.1	722.7	729.5	730.8	730.8
15°	677.3	700.0	709.4	710.7	715.4	714.0	714.0	716.7	724.1	726.1	725.4
17.5°	662.6	690.7	701.4	703.4	706.8	706.1	706.8	709.4	716.0	717.4	718.1
20°	645.9	678.0	690.7	692.7	696.0	696.0	696.0	699.4	706.1	708.8	708.8
22.5°	623.2	664.6	678.0	679.4	683.4	683.4	684.7	689.3	695.3	696.0	696.0
25°	596.5	649.9	661.2	665.3	669.3	671.3	673.3	676.0	678.0	677.3	678.0
27.5°	568.4	631.3	645.9	648.6	654.0	656.0	658.7	659.3	659.9	661.9	660.6
30°	537.0	605.2	627.2	629.9	638.5	639.9	637.2	638.5	641.9	643.2	644.6
32.5°	501.7	566.4	607.9	613.8	621.9	617.9	617.2	619.2	624.6	624.6	625.9
35°	453.6	536.3	589.8	595.2	601.2	596.5	599.2	599.8	603.2	605.2	604.5
37.5°	400.8	510.4	571.1	575.1	579.8	573.8	577.8	579.8	582.5	581.2	581.2
40°	354.0	469.6	549.1	551.8	555.8	551.1	555.1	556.5	557.8	556.5	555.8
42.5°	319.3	424.8	525.7	529.1	526.4	529.7	531.1	533.8	531.7	529.1	529.1
45°	292.5	412.8	500.3	504.3	500.3	505.7	507.7	507.7	501.7	500.3	499.6
47.5°	283.9	388.7	474.9	474.9	472.9	479.6	483.0	478.3	472.3	470.2	470.2
50°	283.3	362.0	440.2	437.5	446.9	454.9	451.6	446.9	442.2	434.9	434.9
52.5°	257.2	329.3	395.4	405.5	420.1	424.8	419.5	414.8	406.8	403.5	400.8
55°	238.4	295.2	354.7	374.7	390.1	396.1	386.0	381.4	369.4	367.4	366.0
57.5°	234.5	245.8	317.3	342.6	361.3	360.8	354.7	346.0	336.0	334.0	333.4
60°	215.1	177.7	277.2	307.3	326.6	324.6	319.3	311.2	301.9	300.6	299.3
62.5°	195.0	128.9	231.8	265.8	293.2	292.5	287.9	275.9	269.2	265.8	263.1
65°	165.6	108.2	165.0	221.1	260.6	261.8	251.8	243.1	235.8	231.8	231.1
67.5°	126.3	88.1	111.6	184.4	229.1	227.8	215.1	211.1	201.7	199.7	195.7
70°	93.5	58.8	77.5	149.6	198.4	195.0	185.1	180.4	171.7	167.0	164.3
72.5°	77.5	47.4	56.8	116.2	167.0	162.9	154.3	149.0	141.6	137.6	135.0
75°	62.7	50.1	43.4	86.2	135.6	133.0	124.9	119.5	113.5	108.2	108.9
77.5°	46.1	46.7	34.8	63.4	107.6	103.6	98.9	92.2	89.5	84.2	84.2
80°	34.8	36.8	26.1	43.4	77.5	77.5	73.5	68.8	64.1	61.5	61.5
82.5°	23.4	23.4	19.3	27.4	52.8	50.8	48.1	46.7	44.1	42.7	42.7
85°	10.7	13.3	12.1	16.7	28.7	30.1	30.1	28.7	28.1	26.7	27.4
87.5°	3.4	6.0	7.4	9.4	14.7	15.3	16.0	16.0	16.0	16.7	16.7
90°	6.2	11.2	16.1	17.4	27.4	40.6	47.2	41.9	31.5	23.6	23.6
92.5°	24.8	67.0	109.4	119.9	168.5	233.4	265.8	233.0	167.3	118.0	113.3
95°	59.7	137.0	214.2	233.6	414.7	656.4	777.2	693.5	526.2	400.7	386.4
97.5°	103.1	171.3	239.5	256.6	558.7	961.5	1162.9	1110.0	1004.3	925.0	897.9
100°	136.7	198.5	260.4	275.8	611.0	1058.1	1281.6	1285.4	1293.2	1299.0	1266.7
102.5°	165.2	223.0	280.7	295.1	635.1	1088.4	1315.1	1382.4	1517.2	1618.3	1590.7
105°	213.7	262.6	311.4	323.7	652.9	1091.8	1311.3	1462.3	1764.4	1991.0	1976.2
107.5°	263.4	309.0	354.6	365.9	656.3	1043.3	1236.8	1447.5	1868.8	2184.8	2188.4
110°	296.9	338.0	379.3	389.5	651.3	1000.2	1174.7	1410.2	1881.2	2234.5	2250.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	329.9	369.1	408.4	418.1	651.5	962.6	1118.2	1359.2	1841.3	2202.9	2226.6
115°	379.6	415.7	451.9	460.9	657.5	919.5	1050.5	1282.6	1747.1	2095.4	2128.4
117.5°	428.7	461.5	494.4	502.6	669.7	892.5	1003.9	1213.4	1632.5	1946.9	1983.4
120°	457.2	488.1	519.0	526.8	679.6	883.4	985.2	1176.7	1559.6	1846.9	1882.3
122.5°	485.2	516.3	547.6	555.4	693.9	878.7	971.0	1143.4	1488.2	1746.9	1781.8
125°	528.1	556.5	585.0	592.0	713.1	874.7	955.5	1101.9	1394.8	1614.5	1646.8
127.5°	562.8	591.5	620.2	627.4	732.4	872.4	942.4	1068.2	1319.7	1508.3	1535.5
130°	581.5	612.3	643.2	651.0	746.5	873.8	937.4	1049.4	1273.3	1441.2	1466.3
132.5°	600.7	631.7	662.5	670.3	757.9	874.7	933.1	1033.3	1233.7	1384.0	1406.6
135°	629.3	657.5	685.5	692.6	770.3	873.8	925.6	1009.5	1177.4	1303.3	1322.7
137.5°	658.5	686.3	714.2	721.2	788.9	879.3	924.4	995.3	1137.2	1243.7	1259.5
140°	682.8	708.5	734.2	740.5	800.4	880.2	920.0	981.3	1103.9	1195.8	1210.6
142.5°	701.4	725.1	748.8	754.8	809.8	883.3	920.0	973.9	1081.6	1162.3	1175.1
145°	730.0	750.7	771.3	776.5	822.3	883.4	913.8	957.9	1045.9	1111.9	1121.6
147.5°	758.5	778.7	798.8	803.9	840.5	889.4	913.8	948.5	1017.7	1069.7	1077.7
150°	777.2	795.4	813.5	818.1	850.0	892.5	913.8	943.1	1001.6	1045.5	1052.0
152.5°	796.4	810.2	824.0	827.5	856.3	894.6	913.8	938.8	988.8	1026.3	1031.2
155°	825.0	835.2	845.4	848.0	869.9	899.2	913.8	933.8	973.5	1003.3	1006.6
157.5°	846.1	856.1	865.9	868.4	883.6	903.8	913.8	929.3	960.1	983.4	985.6
160°	860.3	868.1	875.9	877.8	889.8	905.9	913.8	927.1	953.6	973.4	974.7
162.5°	874.7	880.5	886.2	887.7	896.4	908.1	913.8	925.0	947.4	964.1	965.3
165°	890.2	895.4	900.7	902.0	906.0	911.2	913.8	921.8	937.8	949.8	951.1
167.5°	904.5	907.0	909.4	910.0	913.3	917.8	920.0	925.3	935.7	943.6	944.2
170°	913.8	916.3	918.8	919.4	919.6	919.9	920.0	925.3	935.7	943.6	943.6
172.5°	918.8	919.3	919.9	920.0	920.0	920.0	920.0	924.2	932.5	938.6	938.1
175°	925.6	925.6	925.6	925.6	923.7	921.2	920.0	922.6	927.9	931.9	931.9
177.5°	925.6	925.6	925.6	925.6	924.2	922.3	921.3	923.4	927.5	930.6	930.0
180°	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1
2.5°	724.1	722.1	724.1	722.7	723.4	721.4	715.4	713.4	715.4	717.4	717.4
5°	732.8	731.5	732.8	732.8	732.1	730.8	724.1	722.7	724.1	724.8	723.4
7.5°	735.4	733.5	735.4	734.1	734.1	732.8	726.1	724.8	725.4	727.4	725.4
10°	735.4	733.5	735.4	734.7	734.1	732.8	726.1	723.4	723.4	725.4	723.4
12.5°	732.1	730.8	732.1	730.8	730.8	729.5	722.7	720.1	720.7	721.4	718.7
15°	726.8	724.8	726.8	725.4	726.1	724.1	716.7	714.0	714.0	715.4	710.7
17.5°	718.7	716.0	718.7	718.1	717.4	716.0	709.4	706.8	706.1	706.8	703.4
20°	709.4	707.4	709.4	708.8	708.8	706.1	699.4	696.0	696.0	696.0	692.7
22.5°	694.7	692.7	694.7	696.0	696.0	695.3	689.3	684.7	683.4	683.4	679.4
25°	678.0	676.0	678.0	678.0	677.3	678.0	676.0	673.3	671.3	669.3	665.3
27.5°	661.9	660.6	661.9	660.6	661.9	659.9	659.3	658.7	656.0	654.0	648.6
30°	645.9	644.6	645.9	644.6	643.2	641.9	638.5	637.2	639.9	638.5	629.9
32.5°	625.9	624.6	625.9	625.9	624.6	624.6	619.2	617.2	617.9	621.9	613.8
35°	605.2	603.2	605.2	604.5	605.2	603.2	599.8	599.2	596.5	601.2	595.2
37.5°	581.2	579.2	581.2	581.2	581.2	582.5	579.8	577.8	573.8	579.8	575.1
40°	556.5	553.8	556.5	555.8	556.5	557.8	556.5	555.1	551.1	555.8	551.8
42.5°	528.4	527.7	528.4	529.1	529.1	531.7	533.8	531.1	529.7	526.4	529.1
45°	498.3	497.0	498.3	499.6	500.3	501.7	507.7	507.7	505.7	500.3	504.3
47.5°	466.2	462.9	466.2	470.2	470.2	472.3	478.3	483.0	479.6	472.9	474.9
50°	432.2	432.9	432.2	434.9	434.9	442.2	446.9	451.6	454.9	446.9	437.5
52.5°	398.8	398.1	398.8	400.8	403.5	406.8	414.8	419.5	424.8	420.1	405.5
55°	365.3	366.7	365.3	366.0	367.4	369.4	381.4	386.0	396.1	390.1	374.7
57.5°	332.0	330.0	332.0	333.4	334.0	336.0	346.0	354.7	360.8	361.3	342.6
60°	293.2	290.5	293.2	299.3	300.6	301.9	311.2	319.3	324.6	326.6	307.3
62.5°	259.2	254.5	259.2	263.1	265.8	269.2	275.9	287.9	292.5	293.2	265.8
65°	223.1	221.1	223.1	231.1	231.8	235.8	243.1	251.8	261.8	260.6	221.1
67.5°	190.3	190.3	190.3	195.7	199.7	201.7	211.1	215.1	227.8	229.1	184.4
70°	160.4	159.7	160.4	164.3	167.0	171.7	180.4	185.1	195.0	198.4	149.6
72.5°	131.6	130.9	131.6	135.0	137.6	141.6	149.0	154.3	162.9	167.0	116.2
75°	106.2	104.9	106.2	108.9	108.2	113.5	119.5	124.9	133.0	135.6	86.2
77.5°	81.5	81.5	81.5	84.2	84.2	89.5	92.2	98.9	103.6	107.6	63.4
80°	60.8	60.2	60.8	61.5	61.5	64.1	68.8	73.5	77.5	77.5	43.4
82.5°	42.7	41.4	42.7	42.7	42.7	44.1	46.7	48.1	50.8	52.8	27.4
85°	26.7	26.7	26.7	27.4	26.7	28.1	28.7	30.1	30.1	28.7	16.7
87.5°	17.3	16.7	17.3	16.7	16.7	16.0	16.0	16.0	15.3	14.7	9.4
90°	23.6	23.6	23.6	23.6	23.6	31.5	41.9	47.2	40.6	27.4	17.4
92.5°	94.5	75.8	94.5	113.3	118.0	167.3	233.0	265.8	233.4	168.5	119.9
95°	329.6	272.7	329.6	386.4	400.7	526.2	693.5	777.2	656.4	414.7	233.6
97.5°	789.7	681.5	789.7	897.9	925.0	1004.3	1110.0	1162.9	961.5	558.7	256.6
100°	1137.8	1008.8	1137.8	1266.7	1299.0	1293.2	1285.4	1281.6	1058.1	611.0	275.8
102.5°	1480.3	1369.8	1480.3	1590.7	1618.3	1517.2	1382.4	1315.1	1088.4	635.1	295.1
105°	1916.8	1857.4	1916.8	1976.2	1991.0	1764.4	1462.3	1311.3	1091.8	652.9	323.7
107.5°	2202.8	2217.1	2202.8	2188.4	2184.8	1868.8	1447.5	1236.8	1043.3	656.3	365.9
110°	2311.8	2373.7	2311.8	2250.0	2234.5	1881.2	1410.2	1174.7	1000.2	651.3	389.5



TEST NUMBER: P935882

CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2321.6	2416.5	2321.6	2226.6	2202.9	1841.3	1359.2	1118.2	962.6	651.5	418.1
115°	2260.0	2391.7	2260.0	2128.4	2095.4	1747.1	1282.6	1050.5	919.5	657.5	460.9
117.5°	2129.4	2275.5	2129.4	1983.4	1946.9	1632.5	1213.4	1003.9	892.5	669.7	502.6
120°	2024.3	2166.2	2024.3	1882.3	1846.9	1559.6	1176.7	985.2	883.4	679.6	526.8
122.5°	1921.9	2061.8	1921.9	1781.8	1746.9	1488.2	1143.4	971.0	878.7	693.9	555.4
125°	1775.7	1904.7	1775.7	1646.8	1614.5	1394.8	1101.9	955.5	874.7	713.1	592.0
127.5°	1644.3	1753.1	1644.3	1535.5	1508.3	1319.7	1068.2	942.4	872.4	732.4	627.4
130°	1566.8	1667.3	1566.8	1466.3	1441.2	1273.3	1049.4	937.4	873.8	746.5	651.0
132.5°	1496.5	1586.5	1496.5	1406.6	1384.0	1233.7	1033.3	933.1	874.7	757.9	670.3
135°	1400.3	1477.9	1400.3	1322.7	1303.3	1177.4	1009.5	925.6	873.8	770.3	692.6
137.5°	1323.1	1386.5	1323.1	1259.5	1243.7	1137.2	995.3	924.4	879.3	788.9	721.2
140°	1270.0	1329.4	1270.0	1210.6	1195.8	1103.9	981.3	920.0	880.2	800.4	740.5
142.5°	1226.2	1277.2	1226.2	1175.1	1162.3	1081.6	973.9	920.0	883.3	809.8	754.8
145°	1160.3	1199.0	1160.3	1121.6	1111.9	1045.9	957.9	913.8	883.4	822.3	776.5
147.5°	1109.7	1141.8	1109.7	1077.7	1069.7	1017.7	948.5	913.8	889.4	840.5	803.9
150°	1078.0	1103.9	1078.0	1052.0	1045.5	1001.6	943.1	913.8	892.5	850.0	818.1
152.5°	1050.8	1070.3	1050.8	1031.2	1026.3	988.8	938.8	913.8	894.6	856.3	827.5
155°	1019.5	1032.5	1019.5	1006.6	1003.3	973.5	933.8	913.8	899.2	869.9	848.0
157.5°	994.7	1003.9	994.7	985.6	983.4	960.1	929.3	913.8	903.8	883.6	868.4
160°	980.0	985.2	980.0	974.7	973.4	953.6	927.1	913.8	905.9	889.8	877.8
162.5°	970.3	975.3	970.3	965.3	964.1	947.4	925.0	913.8	908.1	896.4	887.7
165°	956.4	961.6	956.4	951.1	949.8	937.8	921.8	913.8	911.2	906.0	902.0
167.5°	946.4	948.6	946.4	944.2	943.6	935.7	925.3	920.0	917.8	913.3	910.0
170°	943.6	943.6	943.6	943.6	943.6	935.7	925.3	920.0	919.9	919.6	919.4
172.5°	936.2	934.3	936.2	938.1	938.6	932.5	924.2	920.0	920.0	920.0	920.0
175°	931.9	931.9	931.9	931.9	931.9	927.9	922.6	920.0	921.2	923.7	925.6
177.5°	927.8	925.6	927.8	930.0	930.6	927.5	923.4	921.3	922.3	924.2	925.6
180°	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6



TEST NUMBER: P935882

CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1
2.5°	716.0	712.0	712.0	705.4	702.7	700.7	697.4	687.3	684.7	682.0	686.0
5°	722.1	714.7	709.4	697.4	687.3	683.4	670.6	646.6	630.6	618.5	611.8
7.5°	723.4	714.0	704.1	685.3	661.2	650.6	611.8	567.8	555.8	545.1	538.3
10°	722.1	711.3	697.4	669.3	612.5	593.8	555.1	526.4	519.0	517.0	519.0
12.5°	717.4	707.4	688.0	641.2	561.7	549.1	526.4	509.7	508.4	511.6	529.7
15°	709.4	700.0	677.3	603.9	533.8	524.4	508.4	502.3	509.7	533.1	587.1
17.5°	701.4	690.7	662.6	567.1	512.3	505.7	494.3	506.4	547.7	579.2	597.2
20°	690.7	678.0	645.9	540.4	497.0	490.9	485.6	539.7	571.1	582.5	592.5
22.5°	678.0	664.6	623.2	521.7	481.0	476.3	479.6	558.5	571.1	579.2	587.8
25°	661.2	649.9	596.5	507.0	468.2	462.9	475.6	556.5	563.7	565.7	583.2
27.5°	645.9	631.3	568.4	493.6	452.9	450.9	479.0	547.7	553.1	555.1	573.8
30°	627.2	605.2	537.0	479.6	436.8	436.1	479.6	537.0	535.7	541.0	559.8
32.5°	607.9	566.4	501.7	462.2	421.5	420.8	474.9	521.0	519.7	527.0	541.0
35°	589.8	536.3	453.6	442.2	402.1	402.8	463.5	502.3	503.0	509.7	518.3
37.5°	571.1	510.4	400.8	420.1	383.5	383.5	448.2	485.0	483.7	485.6	497.6
40°	549.1	469.6	354.0	391.4	366.0	364.0	429.5	466.2	461.5	460.9	477.6
42.5°	525.7	424.8	319.3	353.4	346.0	343.3	406.8	443.5	434.9	436.8	458.3
45°	500.3	412.8	292.5	298.6	325.3	323.3	382.1	417.5	411.4	416.8	438.8
47.5°	474.9	388.7	283.9	247.8	303.3	302.6	354.7	392.1	388.7	394.1	417.5
50°	440.2	362.0	283.3	212.4	278.6	281.2	322.0	367.4	367.4	372.1	396.8
52.5°	395.4	329.3	257.2	192.3	249.8	257.9	293.2	346.0	347.3	352.0	374.1
55°	354.7	295.2	238.4	177.0	215.7	233.2	265.1	324.0	326.6	331.3	351.4
57.5°	317.3	245.8	234.5	159.0	184.4	201.1	240.4	302.6	303.9	308.0	327.3
60°	277.2	177.7	215.1	139.6	157.0	169.6	217.7	277.2	281.9	284.6	301.3
62.5°	231.8	128.9	195.0	126.3	143.6	146.3	199.1	253.2	259.2	261.2	271.2
65°	165.0	108.2	165.6	114.9	129.6	130.3	179.0	228.5	233.8	237.1	244.5
67.5°	111.6	88.1	126.3	104.2	118.9	119.5	159.7	199.7	207.1	209.8	214.4
70°	77.5	58.8	93.5	92.8	106.9	108.2	138.9	173.7	180.4	182.4	185.1
72.5°	56.8	47.4	77.5	83.5	94.2	95.5	117.5	144.3	151.0	153.0	154.3
75°	43.4	50.1	62.7	72.8	80.2	80.8	96.2	117.5	122.2	123.6	124.2
77.5°	34.8	46.7	46.1	58.8	65.4	64.1	75.5	90.8	94.8	94.8	94.8
80°	26.1	36.8	34.8	42.1	48.1	46.7	54.1	64.8	66.1	67.4	66.8
82.5°	19.3	23.4	23.4	26.7	32.1	30.8	36.1	42.1	42.1	42.1	43.4
85°	12.1	13.3	10.7	14.0	18.0	17.3	20.0	22.7	23.4	23.4	22.0
87.5°	7.4	6.0	3.4	5.4	8.0	8.0	9.4	10.1	9.4	9.4	9.4
90°	16.1	11.2	6.2	11.2	16.1	17.4	27.4	40.6	47.2	41.9	31.5
92.5°	109.4	67.0	24.8	67.0	109.4	119.9	168.5	233.4	265.8	233.0	167.3
95°	214.2	137.0	59.7	137.0	214.2	233.6	414.7	656.4	777.2	693.5	526.2
97.5°	239.5	171.3	103.1	171.3	239.5	256.6	558.7	961.5	1162.9	1110.0	1004.3
100°	260.4	198.5	136.7	198.5	260.4	275.8	611.0	1058.1	1281.6	1285.4	1293.2
102.5°	280.7	223.0	165.2	223.0	280.7	295.1	635.1	1088.4	1315.1	1382.4	1517.2
105°	311.4	262.6	213.7	262.6	311.4	323.7	652.9	1091.8	1311.3	1462.3	1764.4
107.5°	354.6	309.0	263.4	309.0	354.6	365.9	656.3	1043.3	1236.8	1447.5	1868.8
110°	379.3	338.0	296.9	338.0	379.3	389.5	651.3	1000.2	1174.7	1410.2	1881.2



TEST NUMBER: P935882

CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	408.4	369.1	329.9	369.1	408.4	418.1	651.5	962.6	1118.2	1359.2	1841.3
115°	451.9	415.7	379.6	415.7	451.9	460.9	657.5	919.5	1050.5	1282.6	1747.1
117.5°	494.4	461.5	428.7	461.5	494.4	502.6	669.7	892.5	1003.9	1213.4	1632.5
120°	519.0	488.1	457.2	488.1	519.0	526.8	679.6	883.4	985.2	1176.7	1559.6
122.5°	547.6	516.3	485.2	516.3	547.6	555.4	693.9	878.7	971.0	1143.4	1488.2
125°	585.0	556.5	528.1	556.5	585.0	592.0	713.1	874.7	955.5	1101.9	1394.8
127.5°	620.2	591.5	562.8	591.5	620.2	627.4	732.4	872.4	942.4	1068.2	1319.7
130°	643.2	612.3	581.5	612.3	643.2	651.0	746.5	873.8	937.4	1049.4	1273.3
132.5°	662.5	631.7	600.7	631.7	662.5	670.3	757.9	874.7	933.1	1033.3	1233.7
135°	685.5	657.5	629.3	657.5	685.5	692.6	770.3	873.8	925.6	1009.5	1177.4
137.5°	714.2	686.3	658.5	686.3	714.2	721.2	788.9	879.3	924.4	995.3	1137.2
140°	734.2	708.5	682.8	708.5	734.2	740.5	800.4	880.2	920.0	981.3	1103.9
142.5°	748.8	725.1	701.4	725.1	748.8	754.8	809.8	883.3	920.0	973.9	1081.6
145°	771.3	750.7	730.0	750.7	771.3	776.5	822.3	883.4	913.8	957.9	1045.9
147.5°	798.8	778.7	758.5	778.7	798.8	803.9	840.5	889.4	913.8	948.5	1017.7
150°	813.5	795.4	777.2	795.4	813.5	818.1	850.0	892.5	913.8	943.1	1001.6
152.5°	824.0	810.2	796.4	810.2	824.0	827.5	856.3	894.6	913.8	938.8	988.8
155°	845.4	835.2	825.0	835.2	845.4	848.0	869.9	899.2	913.8	933.8	973.5
157.5°	865.9	856.1	846.1	856.1	865.9	868.4	883.6	903.8	913.8	929.3	960.1
160°	875.9	868.1	860.3	868.1	875.9	877.8	889.8	905.9	913.8	927.1	953.6
162.5°	886.2	880.5	874.7	880.5	886.2	887.7	896.4	908.1	913.8	925.0	947.4
165°	900.7	895.4	890.2	895.4	900.7	902.0	906.0	911.2	913.8	921.8	937.8
167.5°	909.4	907.0	904.5	907.0	909.4	910.0	913.3	917.8	920.0	925.3	935.7
170°	918.8	916.3	913.8	916.3	918.8	919.4	919.6	919.9	920.0	925.3	935.7
172.5°	919.9	919.3	918.8	919.3	919.9	920.0	920.0	920.0	920.0	924.2	932.5
175°	925.6	925.6	925.6	925.6	925.6	925.6	923.7	921.2	920.0	922.6	927.9
177.5°	925.6	925.6	925.6	925.6	925.6	925.6	924.2	922.3	921.3	923.4	927.5
180°	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6



TEST NUMBER: P935882

CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1
2.5°	681.4	679.4	682.0	674.7	682.0	679.4	681.4	686.0	682.0	684.7	687.3
5°	597.8	594.5	583.9	575.1	583.9	594.5	597.8	611.8	618.5	630.6	646.6
7.5°	534.4	531.7	529.1	523.7	529.1	531.7	534.4	538.3	545.1	555.8	567.8
10°	520.3	521.0	525.0	524.4	525.0	521.0	520.3	519.0	517.0	519.0	526.4
12.5°	556.5	562.4	584.5	583.2	584.5	562.4	556.5	529.7	511.6	508.4	509.7
15°	597.8	599.8	604.5	605.2	604.5	599.8	597.8	587.1	533.1	509.7	502.3
17.5°	601.9	602.5	605.9	605.9	605.9	602.5	601.9	597.2	579.2	547.7	506.4
20°	598.5	599.8	606.6	607.9	606.6	599.8	598.5	592.5	582.5	571.1	539.7
22.5°	597.2	599.8	605.2	604.5	605.2	599.8	597.2	587.8	579.2	571.1	558.5
25°	590.5	590.5	591.1	591.8	591.1	590.5	590.5	583.2	565.7	563.7	556.5
27.5°	576.5	577.8	581.8	581.2	581.8	577.8	576.5	573.8	555.1	553.1	547.7
30°	563.7	562.4	559.1	556.5	559.1	562.4	563.7	559.8	541.0	535.7	537.0
32.5°	542.4	539.0	535.7	533.8	535.7	539.0	542.4	541.0	527.0	519.7	521.0
35°	517.0	517.7	517.0	515.0	517.0	517.7	517.0	518.3	509.7	503.0	502.3
37.5°	499.0	500.3	499.6	497.0	499.6	500.3	499.0	497.6	485.6	483.7	485.0
40°	480.3	481.0	480.3	478.3	480.3	481.0	480.3	477.6	460.9	461.5	466.2
42.5°	462.2	461.5	459.6	458.3	459.6	461.5	462.2	458.3	436.8	434.9	443.5
45°	441.5	442.2	438.1	436.1	438.1	442.2	441.5	438.8	416.8	411.4	417.5
47.5°	420.8	420.8	417.5	415.4	417.5	420.8	420.8	417.5	394.1	388.7	392.1
50°	398.8	398.1	393.4	392.7	393.4	398.1	398.8	396.8	372.1	367.4	367.4
52.5°	373.4	373.4	374.1	375.4	374.1	373.4	373.4	374.1	352.0	347.3	346.0
55°	351.4	352.0	356.7	358.1	356.7	352.0	351.4	351.4	331.3	326.6	324.0
57.5°	328.7	328.7	332.0	332.0	332.0	328.7	328.7	327.3	308.0	303.9	302.6
60°	302.6	303.9	306.6	306.0	306.6	303.9	302.6	301.3	284.6	281.9	277.2
62.5°	275.2	276.6	277.2	275.9	277.2	276.6	275.2	271.2	261.2	259.2	253.2
65°	246.5	247.8	248.5	247.1	248.5	247.8	246.5	244.5	237.1	233.8	228.5
67.5°	217.1	216.4	215.7	218.4	215.7	216.4	217.1	214.4	209.8	207.1	199.7
70°	187.0	187.0	186.4	187.7	186.4	187.0	187.0	185.1	182.4	180.4	173.7
72.5°	155.0	154.3	157.0	155.0	157.0	154.3	155.0	154.3	153.0	151.0	144.3
75°	123.6	124.9	123.6	125.6	123.6	124.9	123.6	124.2	123.6	122.2	117.5
77.5°	94.2	95.5	94.2	94.2	94.2	95.5	94.2	94.8	94.8	94.8	90.8
80°	66.8	66.1	66.1	65.4	66.1	66.1	66.8	66.8	67.4	66.1	64.8
82.5°	42.7	42.1	42.1	43.4	42.1	42.1	42.7	43.4	42.1	42.1	42.1
85°	23.4	24.0	22.7	22.7	22.7	24.0	23.4	22.0	23.4	23.4	22.7
87.5°	8.7	8.0	8.0	8.0	8.0	8.0	8.7	9.4	9.4	9.4	10.1
90°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	31.5	41.9	47.2	40.6
92.5°	118.0	113.3	94.5	75.8	94.5	113.3	118.0	167.3	233.0	265.8	233.4
95°	400.7	386.4	329.6	272.7	329.6	386.4	400.7	526.2	693.5	777.2	656.4
97.5°	925.0	897.9	789.7	681.5	789.7	897.9	925.0	1004.3	1110.0	1162.9	961.5
100°	1299.0	1266.7	1137.8	1008.8	1137.8	1266.7	1299.0	1293.2	1285.4	1281.6	1058.1
102.5°	1618.3	1590.7	1480.3	1369.8	1480.3	1590.7	1618.3	1517.2	1382.4	1315.1	1088.4
105°	1991.0	1976.2	1916.8	1857.4	1916.8	1976.2	1991.0	1764.4	1462.3	1311.3	1091.8
107.5°	2184.8	2188.4	2202.8	2217.1	2202.8	2188.4	2184.8	1868.8	1447.5	1236.8	1043.3
110°	2234.5	2250.0	2311.8	2373.7	2311.8	2250.0	2234.5	1881.2	1410.2	1174.7	1000.2



TEST NUMBER: P935882

CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2202.9	2226.6	2321.6	2416.5	2321.6	2226.6	2202.9	1841.3	1359.2	1118.2	962.6
115°	2095.4	2128.4	2260.0	2391.7	2260.0	2128.4	2095.4	1747.1	1282.6	1050.5	919.5
117.5°	1946.9	1983.4	2129.4	2275.5	2129.4	1983.4	1946.9	1632.5	1213.4	1003.9	892.5
120°	1846.9	1882.3	2024.3	2166.2	2024.3	1882.3	1846.9	1559.6	1176.7	985.2	883.4
122.5°	1746.9	1781.8	1921.9	2061.8	1921.9	1781.8	1746.9	1488.2	1143.4	971.0	878.7
125°	1614.5	1646.8	1775.7	1904.7	1775.7	1646.8	1614.5	1394.8	1101.9	955.5	874.7
127.5°	1508.3	1535.5	1644.3	1753.1	1644.3	1535.5	1508.3	1319.7	1068.2	942.4	872.4
130°	1441.2	1466.3	1566.8	1667.3	1566.8	1466.3	1441.2	1273.3	1049.4	937.4	873.8
132.5°	1384.0	1406.6	1496.5	1586.5	1496.5	1406.6	1384.0	1233.7	1033.3	933.1	874.7
135°	1303.3	1322.7	1400.3	1477.9	1400.3	1322.7	1303.3	1177.4	1009.5	925.6	873.8
137.5°	1243.7	1259.5	1323.1	1386.5	1323.1	1259.5	1243.7	1137.2	995.3	924.4	879.3
140°	1195.8	1210.6	1270.0	1329.4	1270.0	1210.6	1195.8	1103.9	981.3	920.0	880.2
142.5°	1162.3	1175.1	1226.2	1277.2	1226.2	1175.1	1162.3	1081.6	973.9	920.0	883.3
145°	1111.9	1121.6	1160.3	1199.0	1160.3	1121.6	1111.9	1045.9	957.9	913.8	883.4
147.5°	1069.7	1077.7	1109.7	1141.8	1109.7	1077.7	1069.7	1017.7	948.5	913.8	889.4
150°	1045.5	1052.0	1078.0	1103.9	1078.0	1052.0	1045.5	1001.6	943.1	913.8	892.5
152.5°	1026.3	1031.2	1050.8	1070.3	1050.8	1031.2	1026.3	988.8	938.8	913.8	894.6
155°	1003.3	1006.6	1019.5	1032.5	1019.5	1006.6	1003.3	973.5	933.8	913.8	899.2
157.5°	983.4	985.6	994.7	1003.9	994.7	985.6	983.4	960.1	929.3	913.8	903.8
160°	973.4	974.7	980.0	985.2	980.0	974.7	973.4	953.6	927.1	913.8	905.9
162.5°	964.1	965.3	970.3	975.3	970.3	965.3	964.1	947.4	925.0	913.8	908.1
165°	949.8	951.1	956.4	961.6	956.4	951.1	949.8	937.8	921.8	913.8	911.2
167.5°	943.6	944.2	946.4	948.6	946.4	944.2	943.6	935.7	925.3	920.0	917.8
170°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	935.7	925.3	920.0	919.9
172.5°	938.6	938.1	936.2	934.3	936.2	938.1	938.6	932.5	924.2	920.0	920.0
175°	931.9	931.9	931.9	931.9	931.9	931.9	931.9	927.9	922.6	920.0	921.2
177.5°	930.6	930.0	927.8	925.6	927.8	930.0	930.6	927.5	923.4	921.3	922.3
180°	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6



TEST NUMBER: P935882

CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	706.1	706.1	706.1	706.1	706.1
2.5°	697.4	700.7	702.7	705.4	712.0
5°	670.6	683.4	687.3	697.4	709.4
7.5°	611.8	650.6	661.2	685.3	704.1
10°	555.1	593.8	612.5	669.3	697.4
12.5°	526.4	549.1	561.7	641.2	688.0
15°	508.4	524.4	533.8	603.9	677.3
17.5°	494.3	505.7	512.3	567.1	662.6
20°	485.6	490.9	497.0	540.4	645.9
22.5°	479.6	476.3	481.0	521.7	623.2
25°	475.6	462.9	468.2	507.0	596.5
27.5°	479.0	450.9	452.9	493.6	568.4
30°	479.6	436.1	436.8	479.6	537.0
32.5°	474.9	420.8	421.5	462.2	501.7
35°	463.5	402.8	402.1	442.2	453.6
37.5°	448.2	383.5	383.5	420.1	400.8
40°	429.5	364.0	366.0	391.4	354.0
42.5°	406.8	343.3	346.0	353.4	319.3
45°	382.1	323.3	325.3	298.6	292.5
47.5°	354.7	302.6	303.3	247.8	283.9
50°	322.0	281.2	278.6	212.4	283.3
52.5°	293.2	257.9	249.8	192.3	257.2
55°	265.1	233.2	215.7	177.0	238.4
57.5°	240.4	201.1	184.4	159.0	234.5
60°	217.7	169.6	157.0	139.6	215.1
62.5°	199.1	146.3	143.6	126.3	195.0
65°	179.0	130.3	129.6	114.9	165.6
67.5°	159.7	119.5	118.9	104.2	126.3
70°	138.9	108.2	106.9	92.8	93.5
72.5°	117.5	95.5	94.2	83.5	77.5
75°	96.2	80.8	80.2	72.8	62.7
77.5°	75.5	64.1	65.4	58.8	46.1
80°	54.1	46.7	48.1	42.1	34.8
82.5°	36.1	30.8	32.1	26.7	23.4
85°	20.0	17.3	18.0	14.0	10.7
87.5°	9.4	8.0	8.0	5.4	3.4
90°	27.4	17.4	16.1	11.2	6.2
92.5°	168.5	119.9	109.4	67.0	24.8
95°	414.7	233.6	214.2	137.0	59.7
97.5°	558.7	256.6	239.5	171.3	103.1
100°	611.0	275.8	260.4	198.5	136.7
102.5°	635.1	295.1	280.7	223.0	165.2
105°	652.9	323.7	311.4	262.6	213.7
107.5°	656.3	365.9	354.6	309.0	263.4
110°	651.3	389.5	379.3	338.0	296.9



TEST NUMBER: P935882

CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	651.5	418.1	408.4	369.1	329.9
115°	657.5	460.9	451.9	415.7	379.6
117.5°	669.7	502.6	494.4	461.5	428.7
120°	679.6	526.8	519.0	488.1	457.2
122.5°	693.9	555.4	547.6	516.3	485.2
125°	713.1	592.0	585.0	556.5	528.1
127.5°	732.4	627.4	620.2	591.5	562.8
130°	746.5	651.0	643.2	612.3	581.5
132.5°	757.9	670.3	662.5	631.7	600.7
135°	770.3	692.6	685.5	657.5	629.3
137.5°	788.9	721.2	714.2	686.3	658.5
140°	800.4	740.5	734.2	708.5	682.8
142.5°	809.8	754.8	748.8	725.1	701.4
145°	822.3	776.5	771.3	750.7	730.0
147.5°	840.5	803.9	798.8	778.7	758.5
150°	850.0	818.1	813.5	795.4	777.2
152.5°	856.3	827.5	824.0	810.2	796.4
155°	869.9	848.0	845.4	835.2	825.0
157.5°	883.6	868.4	865.9	856.1	846.1
160°	889.8	877.8	875.9	868.1	860.3
162.5°	896.4	887.7	886.2	880.5	874.7
165°	906.0	902.0	900.7	895.4	890.2
167.5°	913.3	910.0	909.4	907.0	904.5
170°	919.6	919.4	918.8	916.3	913.8
172.5°	920.0	920.0	919.9	919.3	918.8
175°	923.7	925.6	925.6	925.6	925.6
177.5°	924.2	925.6	925.6	925.6	925.6
180°	925.6	925.6	925.6	925.6	925.6



TEST NUMBER: P935882
 CATALOG NUMBER: SQ4-FA-150U-050D-B2750-1D-UNV-STD-W-4-2700K

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	8.11	8.78	9.27	9.92	11.53	10.91	11.58	12.07	12.72	14.33
	3H	8.58	9.17	9.74	10.32	11.94	12.23	12.83	13.40	13.98	15.60
	4H	8.76	9.32	9.93	10.47	12.10	12.66	13.23	13.83	14.38	16.00
	6H	8.87	9.39	10.05	10.54	12.18	12.93	13.45	14.11	14.60	16.24
	8H	8.86	9.36	10.04	10.53	12.15	12.99	13.49	14.17	14.65	16.28
	12H	8.83	9.30	10.01	10.46	12.11	13.02	13.49	14.21	14.65	16.30
4H	2H	9.11	9.68	10.30	10.83	12.46	11.30	11.86	12.48	13.02	14.64
	3H	10.12	10.59	11.31	11.77	13.41	12.78	13.25	13.96	14.42	16.06
	4H	10.39	10.82	11.58	11.99	13.65	13.29	13.72	14.47	14.89	16.54
	6H	10.50	10.88	11.69	12.06	13.71	13.63	14.01	14.83	15.19	16.84
	8H	10.51	10.85	11.69	12.03	13.69	13.73	14.08	14.92	15.26	16.92
	12H	10.46	10.78	11.67	11.97	13.63	13.77	14.09	14.98	15.28	16.94
8H	4H	10.82	11.17	12.01	12.35	14.01	13.40	13.74	14.59	14.92	16.59
	6H	11.08	11.36	12.28	12.58	14.24	13.82	14.10	15.03	15.32	16.98
	8H	11.12	11.37	12.33	12.56	14.24	13.96	14.21	15.18	15.41	17.09
	12H	11.09	11.31	12.31	12.51	14.22	14.05	14.26	15.26	15.46	17.17
12H	4H	10.82	11.13	12.02	12.32	13.99	13.35	13.67	14.56	14.86	16.52
	6H	11.13	11.38	12.35	12.58	14.26	13.81	14.06	15.03	15.26	16.94
	8H	11.19	11.41	12.41	12.60	14.32	13.96	14.18	15.18	15.37	17.09