

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: P935460

Luminaire Tested: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

**Test Information**

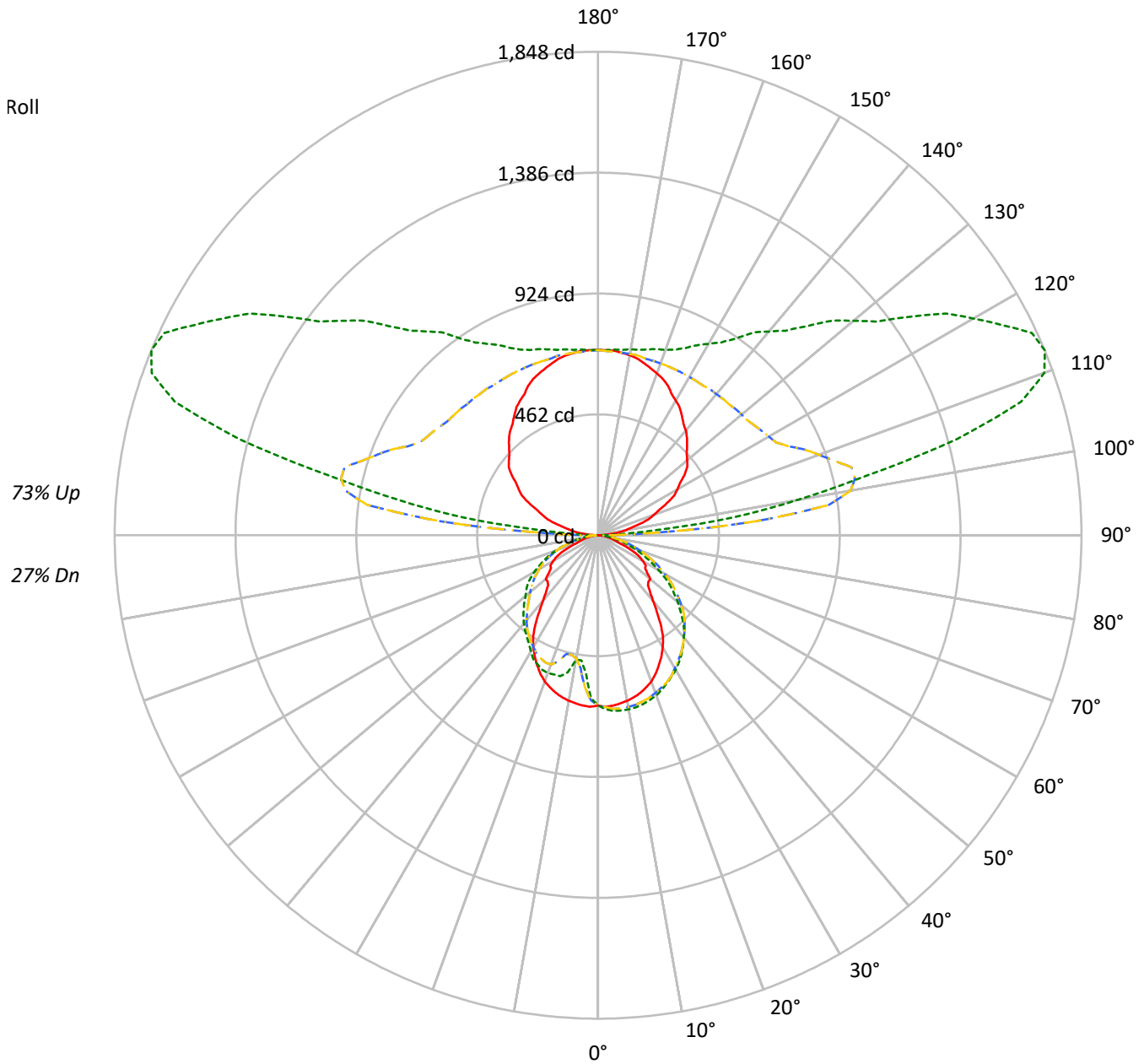
Test Method: LM-79-2019  
Report Number: P935460  
REPORT IS A COMBINATION OF REPORTS P933754 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6278.9 lumens  
Efficiency: N/A  
Efficacy: 131.9 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): 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: P935460  
CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-5000K

### 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					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	50	30	10	0		
RCR	0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	35	35	35	35	35	27		
	1	93	88	85	81	83	79	76	73	62	60	58	46	44	43	31	30	29	29	29	29	29	29	23		
	2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25	25	25	25	25	25	19		
	3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21	21	21	21	21	21	16		
	4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18	18	18	18	18	18	14		
	5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16	16	16	16	16	16	12		
	6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14	14	14	14	14	14	10		
	7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12	12	12	12	12	12	9		
	8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11	11	11	11	11	11	8		
	9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10	10	10	10	10	10	7		
	10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9	9	9	9	9	9	7		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6037	6037	6037	6037
5°	6075	6094	6075	4791
10°	6028	6003	6028	4292
15°	5955	5873	5955	4904
20°	5823	5718	5823	4914
25°	5562	5493	5562	4810
30°	5226	5307	5226	4581
35°	4652	5072	4652	4330
40°	3869	4793	3869	4140
45°	3450	4468	3450	3922
50°	3659	4080	3659	3702
55°	3432	3663	3432	3576
60°	3526	3110	3526	3275
65°	3180	2571	3180	2874
70°	2188	2049	2188	2410
75°	1895	1514	1895	1814
80°	1498	1002	1498	1090
85°	811	530	811	450

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5300 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.7	0.9
10°-20°	166.7	2.7
20°-30°	257.7	4.1
30°-40°	307.7	4.9
40°-50°	309.5	4.9
50°-60°	269.3	4.3
60°-70°	190.9	3.0
70°-80°	101.0	1.6
80°-90°	27.9	0.4
90°-100°	345.1	5.5
100°-110°	907.3	14.4
110°-120°	940.8	15.0
120°-130°	754.6	12.0
130°-140°	592.1	9.4
140°-150°	454.5	7.2
150°-160°	327.3	5.2
160°-170°	200.3	3.2
170°-180°	67.7	1.1
0°-30°	483.2	7.7
0°-40°	790.9	12.6
0°-60°	1369.6	21.8
0°-90°	1689.4	26.9
90°-120°	2193.1	34.9
90°-150°	3994.3	63.6
90°-180°	4589.0	73.1
0°-180°	6278.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	651	651	651	651	651	
5°	654	674	654	530	654	62
15°	624	668	624	558	624	176
25°	550	623	550	545	550	252
35°	418	556	418	474	418	259
45°	270	458	270	402	270	216
55°	220	338	220	330	220	202
65°	153	204	153	228	153	146
75°	58	97	58	116	58	61
85°	10	25	10	21	10	13
90°	5	18	5	18	5	4
95°	46	209	46	209	46	51
105°	163	1421	163	1421	163	173
115°	290	1829	290	1829	290	287
125°	404	1457	404	1457	404	359
135°	481	1130	481	1130	481	372
145°	558	917	558	917	558	350
155°	631	790	631	790	631	290
165°	681	736	681	736	681	192
175°	708	713	708	713	708	67
180°	708	708	708	708	708	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	656.1	656.1	659.7	661.0	661.0	659.2	657.3	659.2	664.7	666.5	665.9
5°	653.6	658.5	665.3	666.5	667.8	667.2	665.9	667.2	673.3	674.5	675.1
7.5°	648.7	657.9	666.5	668.4	670.2	668.4	667.8	669.0	675.1	676.3	676.3
10°	642.6	655.4	665.3	666.5	668.4	666.5	666.5	669.0	675.1	676.3	677.0
12.5°	633.9	651.7	661.0	662.2	664.7	664.0	663.5	665.9	672.1	673.3	673.3
15°	624.0	645.0	653.6	654.9	659.2	657.9	657.9	660.4	667.2	669.0	668.4
17.5°	610.5	636.4	646.2	648.1	651.2	650.6	651.2	653.6	659.7	661.0	661.7
20°	595.1	624.7	636.4	638.3	641.3	641.3	641.3	644.4	650.6	653.0	653.0
22.5°	574.2	612.4	624.7	626.0	629.6	629.6	630.8	635.1	640.6	641.3	641.3
25°	549.6	598.8	609.3	613.0	616.7	618.5	620.4	622.8	624.7	624.0	624.7
27.5°	523.7	581.6	595.1	597.6	602.6	604.4	606.9	607.4	608.1	609.9	608.7
30°	494.8	557.6	577.9	580.4	588.3	589.6	587.1	588.3	591.5	592.6	593.9
32.5°	462.2	521.9	560.1	565.6	573.0	569.3	568.7	570.5	575.5	575.5	576.7
35°	417.9	494.2	543.5	548.4	553.9	549.6	552.1	552.6	555.8	557.6	556.9
37.5°	369.3	470.2	526.2	529.9	534.2	528.7	532.4	534.2	536.7	535.5	535.5
40°	326.1	432.7	505.9	508.4	512.1	507.8	511.4	512.7	513.9	512.7	512.1
42.5°	294.2	391.4	484.4	487.5	485.0	488.0	489.3	491.8	489.9	487.5	487.5
45°	269.5	380.4	461.0	464.6	461.0	465.9	467.7	467.7	462.2	461.0	460.3
47.5°	261.5	358.2	437.6	437.6	435.7	441.9	445.0	440.7	435.2	433.2	433.2
50°	261.0	333.6	405.6	403.1	411.8	419.1	416.1	411.8	407.5	400.7	400.7
52.5°	236.9	303.4	364.3	373.6	387.1	391.4	386.5	382.2	374.8	371.8	369.3
55°	219.7	272.0	326.8	345.2	359.5	365.0	355.7	351.4	340.4	338.5	337.3
57.5°	216.0	226.5	292.4	315.7	332.9	332.4	326.8	318.8	309.5	307.7	307.2
60°	198.2	163.7	255.4	283.1	300.9	299.1	294.2	286.8	278.2	277.0	275.8
62.5°	179.7	118.7	213.5	244.9	270.2	269.5	265.3	254.2	248.1	244.9	242.5
65°	152.6	99.7	152.1	203.7	240.1	241.3	232.0	224.0	217.2	213.5	212.9
67.5°	116.4	81.2	102.8	169.9	211.1	209.9	198.2	194.5	185.8	184.0	180.3
70°	86.2	54.1	71.4	137.8	182.8	179.7	170.5	166.2	158.2	153.9	151.4
72.5°	71.4	43.7	52.3	107.1	153.9	150.1	142.2	137.3	130.5	126.8	124.3
75°	57.8	46.2	40.0	79.4	124.9	122.5	115.1	110.1	104.6	99.7	100.3
77.5°	42.5	43.0	32.0	58.5	99.1	95.4	91.1	85.0	82.5	77.5	77.5
80°	32.0	33.9	24.0	40.0	71.4	71.4	67.7	63.4	59.1	56.6	56.6
82.5°	21.6	21.6	17.8	25.2	48.6	46.8	44.3	43.0	40.7	39.4	39.4
85°	9.8	12.3	11.1	15.4	26.4	27.7	27.7	26.4	25.9	24.6	25.2
87.5°	3.1	5.5	6.8	8.6	13.6	14.1	14.8	14.8	14.8	15.4	15.4
90°	4.8	8.5	12.4	13.3	20.9	31.0	36.1	32.0	24.0	18.1	18.1
92.5°	19.0	51.3	83.6	91.7	128.9	178.6	203.4	178.2	128.0	90.3	86.7
95°	45.6	104.7	163.9	178.7	317.2	502.0	594.4	530.4	402.5	306.5	295.6
97.5°	78.8	131.0	183.2	196.2	427.3	735.3	889.4	849.0	768.1	707.5	686.8
100°	104.5	151.9	199.1	211.0	467.4	809.2	980.2	983.1	989.1	993.5	968.8
102.5°	126.4	170.5	214.6	225.7	485.7	832.5	1005.9	1057.5	1160.5	1237.8	1216.7
105°	163.4	200.9	238.2	247.6	499.4	835.2	1003.0	1118.6	1349.6	1522.8	1511.4
107.5°	201.4	236.3	271.2	279.9	502.0	798.0	946.1	1107.2	1429.4	1671.0	1673.8
110°	227.1	258.6	290.0	297.9	498.1	765.1	898.5	1078.7	1438.9	1709.1	1721.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	252.3	282.3	312.2	319.7	498.2	736.3	855.3	1039.7	1408.4	1684.9	1703.1
115°	290.3	318.0	345.7	352.6	502.9	703.2	803.4	981.0	1336.3	1602.7	1627.8
117.5°	327.9	353.0	378.2	384.4	512.3	682.7	767.8	928.1	1248.6	1489.1	1516.9
120°	349.7	373.4	397.1	403.0	519.9	675.7	753.6	900.1	1192.9	1412.6	1439.8
122.5°	371.1	395.0	418.8	424.8	530.8	672.0	742.7	874.6	1138.3	1336.1	1362.9
125°	403.9	425.6	447.4	452.8	545.5	669.0	730.8	842.8	1066.8	1234.9	1259.5
127.5°	430.5	452.4	474.4	479.9	560.2	667.3	720.8	816.9	1009.4	1153.6	1174.5
130°	444.7	468.4	492.1	497.9	571.0	668.4	717.0	802.6	973.9	1102.3	1121.5
132.5°	459.5	483.2	506.8	512.7	579.7	669.0	713.7	790.3	943.7	1058.7	1075.8
135°	481.3	502.9	524.4	529.8	589.2	668.4	708.0	772.2	900.6	996.9	1011.8
137.5°	503.6	524.9	546.3	551.6	603.4	672.5	707.0	761.2	869.8	951.2	963.3
140°	522.2	541.8	561.4	566.4	612.2	673.2	703.7	750.6	844.4	914.7	926.0
142.5°	536.4	554.6	572.7	577.3	619.4	675.6	703.7	744.9	827.2	889.0	898.7
145°	558.3	574.1	590.0	593.9	628.9	675.6	698.9	732.6	800.0	850.5	858.0
147.5°	580.2	595.6	611.0	614.9	642.8	680.2	698.9	725.4	778.5	818.2	824.4
150°	594.4	608.3	622.3	625.8	650.2	682.7	698.9	721.3	766.1	799.7	804.6
152.5°	609.2	619.7	630.3	632.9	655.0	684.2	698.9	718.0	756.3	784.9	788.7
155°	631.0	638.8	646.6	648.5	665.3	687.7	698.9	714.2	744.5	767.4	769.9
157.5°	647.2	654.8	662.3	664.2	675.8	691.2	698.9	710.8	734.4	752.1	753.9
160°	658.1	664.0	669.9	671.4	680.6	692.8	698.9	709.0	729.3	744.5	745.5
162.5°	669.0	673.4	677.9	679.0	685.6	694.5	698.9	707.5	724.6	737.5	738.4
165°	680.8	684.9	688.9	689.9	693.0	696.9	698.9	705.1	717.3	726.4	727.5
167.5°	691.9	693.7	695.6	696.1	698.6	702.0	703.7	707.7	715.7	721.8	722.2
170°	698.9	700.8	702.8	703.2	703.4	703.6	703.7	707.7	715.7	721.8	721.8
172.5°	702.8	703.1	703.6	703.7	703.7	703.7	703.7	706.8	713.1	717.9	717.5
175°	708.0	708.0	708.0	708.0	706.5	704.6	703.7	705.7	709.7	712.7	712.7
177.5°	708.0	708.0	708.0	708.0	706.9	705.3	704.6	706.2	709.4	711.8	711.3
180°	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	667.2	665.3	667.2	665.9	666.5	664.7	659.2	657.3	659.2	661.0	661.0
5°	675.1	674.0	675.1	675.1	674.5	673.3	667.2	665.9	667.2	667.8	666.5
7.5°	677.6	675.8	677.6	676.3	676.3	675.1	669.0	667.8	668.4	670.2	668.4
10°	677.6	675.8	677.6	677.0	676.3	675.1	669.0	666.5	666.5	668.4	666.5
12.5°	674.5	673.3	674.5	673.3	673.3	672.1	665.9	663.5	664.0	664.7	662.2
15°	669.6	667.8	669.6	668.4	669.0	667.2	660.4	657.9	657.9	659.2	654.9
17.5°	662.2	659.7	662.2	661.7	661.0	659.7	653.6	651.2	650.6	651.2	648.1
20°	653.6	651.7	653.6	653.0	653.0	650.6	644.4	641.3	641.3	641.3	638.3
22.5°	640.1	638.3	640.1	641.3	641.3	640.6	635.1	630.8	629.6	629.6	626.0
25°	624.7	622.8	624.7	624.7	624.0	624.7	622.8	620.4	618.5	616.7	613.0
27.5°	609.9	608.7	609.9	608.7	609.9	608.1	607.4	606.9	604.4	602.6	597.6
30°	595.1	593.9	595.1	593.9	592.6	591.5	588.3	587.1	589.6	588.3	580.4
32.5°	576.7	575.5	576.7	576.7	575.5	575.5	570.5	568.7	569.3	573.0	565.6
35°	557.6	555.8	557.6	556.9	557.6	555.8	552.6	552.1	549.6	553.9	548.4
37.5°	535.5	533.6	535.5	535.5	535.5	536.7	534.2	532.4	528.7	534.2	529.9
40°	512.7	510.2	512.7	512.1	512.7	513.9	512.7	511.4	507.8	512.1	508.4
42.5°	486.8	486.2	486.8	487.5	487.5	489.9	491.8	489.3	488.0	485.0	487.5
45°	459.1	457.9	459.1	460.3	461.0	462.2	467.7	467.7	465.9	461.0	464.6
47.5°	429.6	426.5	429.6	433.2	433.2	435.2	440.7	445.0	441.9	435.7	437.6
50°	398.2	398.8	398.2	400.7	400.7	407.5	411.8	416.1	419.1	411.8	403.1
52.5°	367.4	366.8	367.4	369.3	371.8	374.8	382.2	386.5	391.4	387.1	373.6
55°	336.6	337.9	336.6	337.3	338.5	340.4	351.4	355.7	365.0	359.5	345.2
57.5°	305.9	304.0	305.9	307.2	307.7	309.5	318.8	326.8	332.4	332.9	315.7
60°	270.2	267.7	270.2	275.8	277.0	278.2	286.8	294.2	299.1	300.9	283.1
62.5°	238.8	234.5	238.8	242.5	244.9	248.1	254.2	265.3	269.5	270.2	244.9
65°	205.6	203.7	205.6	212.9	213.5	217.2	224.0	232.0	241.3	240.1	203.7
67.5°	175.4	175.4	175.4	180.3	184.0	185.8	194.5	198.2	209.9	211.1	169.9
70°	147.7	147.1	147.7	151.4	153.9	158.2	166.2	170.5	179.7	182.8	137.8
72.5°	121.2	120.6	121.2	124.3	126.8	130.5	137.3	142.2	150.1	153.9	107.1
75°	97.8	96.6	97.8	100.3	99.7	104.6	110.1	115.1	122.5	124.9	79.4
77.5°	75.1	75.1	75.1	77.5	77.5	82.5	85.0	91.1	95.4	99.1	58.5
80°	56.0	55.4	56.0	56.6	56.6	59.1	63.4	67.7	71.4	71.4	40.0
82.5°	39.4	38.2	39.4	39.4	39.4	40.7	43.0	44.3	46.8	48.6	25.2
85°	24.6	24.6	24.6	25.2	24.6	25.9	26.4	27.7	27.7	26.4	15.4
87.5°	16.0	15.4	16.0	15.4	15.4	14.8	14.8	14.8	14.1	13.6	8.6
90°	18.1	18.1	18.1	18.1	18.1	24.0	32.0	36.1	31.0	20.9	13.3
92.5°	72.3	58.0	72.3	86.7	90.3	128.0	178.2	203.4	178.6	128.9	91.7
95°	252.1	208.6	252.1	295.6	306.5	402.5	530.4	594.4	502.0	317.2	178.7
97.5°	604.0	521.3	604.0	686.8	707.5	768.1	849.0	889.4	735.3	427.3	196.2
100°	870.3	771.6	870.3	968.8	993.5	989.1	983.1	980.2	809.2	467.4	211.0
102.5°	1132.2	1047.7	1132.2	1216.7	1237.8	1160.5	1057.5	1005.9	832.5	485.7	225.7
105°	1466.1	1420.7	1466.1	1511.4	1522.8	1349.6	1118.6	1003.0	835.2	499.4	247.6
107.5°	1684.8	1695.8	1684.8	1673.8	1671.0	1429.4	1107.2	946.1	798.0	502.0	279.9
110°	1768.2	1815.5	1768.2	1721.0	1709.1	1438.9	1078.7	898.5	765.1	498.1	297.9





TEST NUMBER: P935460

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1775.6	1848.3	1775.6	1703.1	1684.9	1408.4	1039.7	855.3	736.3	498.2	319.7
115°	1728.6	1829.3	1728.6	1627.8	1602.7	1336.3	981.0	803.4	703.2	502.9	352.6
117.5°	1628.7	1740.4	1628.7	1516.9	1489.1	1248.6	928.1	767.8	682.7	512.3	384.4
120°	1548.2	1656.8	1548.2	1439.8	1412.6	1192.9	900.1	753.6	675.7	519.9	403.0
122.5°	1469.9	1577.0	1469.9	1362.9	1336.1	1138.3	874.6	742.7	672.0	530.8	424.8
125°	1358.1	1456.7	1358.1	1259.5	1234.9	1066.8	842.8	730.8	669.0	545.5	452.8
127.5°	1257.6	1340.8	1257.6	1174.5	1153.6	1009.4	816.9	720.8	667.3	560.2	479.9
130°	1198.4	1275.3	1198.4	1121.5	1102.3	973.9	802.6	717.0	668.4	571.0	497.9
132.5°	1144.6	1213.5	1144.6	1075.8	1058.7	943.7	790.3	713.7	669.0	579.7	512.7
135°	1071.0	1130.3	1071.0	1011.8	996.9	900.6	772.2	708.0	668.4	589.2	529.8
137.5°	1011.9	1060.5	1011.9	963.3	951.2	869.8	761.2	707.0	672.5	603.4	551.6
140°	971.4	1016.8	971.4	926.0	914.7	844.4	750.6	703.7	673.2	612.2	566.4
142.5°	937.8	976.9	937.8	898.7	889.0	827.2	744.9	703.7	675.6	619.4	577.3
145°	887.5	917.1	887.5	858.0	850.5	800.0	732.6	698.9	675.6	628.9	593.9
147.5°	848.8	873.3	848.8	824.4	818.2	778.5	725.4	698.9	680.2	642.8	614.9
150°	824.5	844.4	824.5	804.6	799.7	766.1	721.3	698.9	682.7	650.2	625.8
152.5°	803.6	818.7	803.6	788.7	784.9	756.3	718.0	698.9	684.2	655.0	632.9
155°	779.8	789.7	779.8	769.9	767.4	744.5	714.2	698.9	687.7	665.3	648.5
157.5°	760.9	767.8	760.9	753.9	752.1	734.4	710.8	698.9	691.2	675.8	664.2
160°	749.6	753.6	749.6	745.5	744.5	729.3	709.0	698.9	692.8	680.6	671.4
162.5°	742.2	746.0	742.2	738.4	737.5	724.6	707.5	698.9	694.5	685.6	679.0
165°	731.5	735.5	731.5	727.5	726.4	717.3	705.1	698.9	696.9	693.0	689.9
167.5°	723.9	725.5	723.9	722.2	721.8	715.7	707.7	703.7	702.0	698.6	696.1
170°	721.8	721.8	721.8	721.8	721.8	715.7	707.7	703.7	703.6	703.4	703.2
172.5°	716.1	714.6	716.1	717.5	717.9	713.1	706.8	703.7	703.7	703.7	703.7
175°	712.7	712.7	712.7	712.7	712.7	709.7	705.7	703.7	704.6	706.5	708.0
177.5°	709.7	708.0	709.7	711.3	711.8	709.4	706.2	704.6	705.3	706.9	708.0
180°	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0



TEST NUMBER: P935460

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	659.7	656.1	656.1	649.9	647.4	645.6	642.6	633.3	630.8	628.3	632.1
5°	665.3	658.5	653.6	642.6	633.3	629.6	617.9	595.8	581.0	569.9	563.7
7.5°	666.5	657.9	648.7	631.5	609.3	599.4	563.7	523.2	512.1	502.3	496.0
10°	665.3	655.4	642.6	616.7	564.4	547.1	511.4	485.0	478.2	476.4	478.2
12.5°	661.0	651.7	633.9	590.8	517.6	505.9	485.0	469.6	468.4	471.4	488.0
15°	653.6	645.0	624.0	556.4	491.8	483.2	468.4	462.8	469.6	491.2	541.0
17.5°	646.2	636.4	610.5	522.5	472.1	465.9	455.5	466.6	504.6	533.6	550.2
20°	636.4	624.7	595.1	497.9	457.9	452.3	447.5	497.3	526.2	536.7	545.9
22.5°	624.7	612.4	574.2	480.7	443.2	438.8	441.9	514.6	526.2	533.6	541.6
25°	609.3	598.8	549.6	467.1	431.4	426.5	438.2	512.7	519.4	521.3	537.3
27.5°	595.1	581.6	523.7	454.8	417.3	415.4	441.3	504.6	509.6	511.4	528.7
30°	577.9	557.6	494.8	441.9	402.5	401.9	441.9	494.8	493.6	498.5	515.7
32.5°	560.1	521.9	462.2	425.9	388.4	387.7	437.6	480.0	478.9	485.6	498.5
35°	543.5	494.2	417.9	407.5	370.5	371.1	427.1	462.8	463.4	469.6	477.6
37.5°	526.2	470.2	369.3	387.1	353.3	353.3	413.0	446.8	445.6	447.5	458.5
40°	505.9	432.7	326.1	360.7	337.3	335.4	395.7	429.6	425.3	424.7	440.0
42.5°	484.4	391.4	294.2	325.6	318.8	316.3	374.8	408.6	400.7	402.5	422.2
45°	461.0	380.4	269.5	275.1	299.7	297.9	352.0	384.7	379.1	384.1	404.3
47.5°	437.6	358.2	261.5	228.3	279.4	278.8	326.8	361.3	358.2	363.1	384.7
50°	405.6	333.6	261.0	195.7	256.7	259.1	296.7	338.5	338.5	342.9	365.6
52.5°	364.3	303.4	236.9	177.2	230.2	237.6	270.2	318.8	320.0	324.3	344.7
55°	326.8	272.0	219.7	163.1	198.8	214.8	244.3	298.5	300.9	305.2	323.8
57.5°	292.4	226.5	216.0	146.5	169.9	185.3	221.5	278.8	280.0	283.8	301.6
60°	255.4	163.7	198.2	128.7	144.6	156.3	200.6	255.4	259.7	262.2	277.6
62.5°	213.5	118.7	179.7	116.4	132.3	134.8	183.4	233.3	238.8	240.6	249.9
65°	152.1	99.7	152.6	105.9	119.4	120.0	164.9	210.5	215.4	218.5	225.3
67.5°	102.8	81.2	116.4	96.0	109.6	110.1	147.1	184.0	190.8	193.3	197.6
70°	71.4	54.1	86.2	85.5	98.5	99.7	128.0	160.0	166.2	168.0	170.5
72.5°	52.3	43.7	71.4	76.9	86.8	88.0	108.3	133.0	139.1	141.0	142.2
75°	40.0	46.2	57.8	67.1	73.9	74.4	88.6	108.3	112.6	113.9	114.4
77.5°	32.0	43.0	42.5	54.1	60.3	59.1	69.6	83.7	87.4	87.4	87.4
80°	24.0	33.9	32.0	38.8	44.3	43.0	49.8	59.7	60.9	62.1	61.6
82.5°	17.8	21.6	21.6	24.6	29.5	28.4	33.2	38.8	38.8	38.8	40.0
85°	11.1	12.3	9.8	12.9	16.6	16.0	18.4	20.9	21.6	21.6	20.3
87.5°	6.8	5.5	3.1	5.0	7.3	7.3	8.6	9.3	8.6	8.6	8.6
90°	12.4	8.5	4.8	8.5	12.4	13.3	20.9	31.0	36.1	32.0	24.0
92.5°	83.6	51.3	19.0	51.3	83.6	91.7	128.9	178.6	203.4	178.2	128.0
95°	163.9	104.7	45.6	104.7	163.9	178.7	317.2	502.0	594.4	530.4	402.5
97.5°	183.2	131.0	78.8	131.0	183.2	196.2	427.3	735.3	889.4	849.0	768.1
100°	199.1	151.9	104.5	151.9	199.1	211.0	467.4	809.2	980.2	983.1	989.1
102.5°	214.6	170.5	126.4	170.5	214.6	225.7	485.7	832.5	1005.9	1057.5	1160.5
105°	238.2	200.9	163.4	200.9	238.2	247.6	499.4	835.2	1003.0	1118.6	1349.6
107.5°	271.2	236.3	201.4	236.3	271.2	279.9	502.0	798.0	946.1	1107.2	1429.4
110°	290.0	258.6	227.1	258.6	290.0	297.9	498.1	765.1	898.5	1078.7	1438.9



TEST NUMBER: P935460

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	312.2	282.3	252.3	282.3	312.2	319.7	498.2	736.3	855.3	1039.7	1408.4
115°	345.7	318.0	290.3	318.0	345.7	352.6	502.9	703.2	803.4	981.0	1336.3
117.5°	378.2	353.0	327.9	353.0	378.2	384.4	512.3	682.7	767.8	928.1	1248.6
120°	397.1	373.4	349.7	373.4	397.1	403.0	519.9	675.7	753.6	900.1	1192.9
122.5°	418.8	395.0	371.1	395.0	418.8	424.8	530.8	672.0	742.7	874.6	1138.3
125°	447.4	425.6	403.9	425.6	447.4	452.8	545.5	669.0	730.8	842.8	1066.8
127.5°	474.4	452.4	430.5	452.4	474.4	479.9	560.2	667.3	720.8	816.9	1009.4
130°	492.1	468.4	444.7	468.4	492.1	497.9	571.0	668.4	717.0	802.6	973.9
132.5°	506.8	483.2	459.5	483.2	506.8	512.7	579.7	669.0	713.7	790.3	943.7
135°	524.4	502.9	481.3	502.9	524.4	529.8	589.2	668.4	708.0	772.2	900.6
137.5°	546.3	524.9	503.6	524.9	546.3	551.6	603.4	672.5	707.0	761.2	869.8
140°	561.4	541.8	522.2	541.8	561.4	566.4	612.2	673.2	703.7	750.6	844.4
142.5°	572.7	554.6	536.4	554.6	572.7	577.3	619.4	675.6	703.7	744.9	827.2
145°	590.0	574.1	558.3	574.1	590.0	593.9	628.9	675.6	698.9	732.6	800.0
147.5°	611.0	595.6	580.2	595.6	611.0	614.9	642.8	680.2	698.9	725.4	778.5
150°	622.3	608.3	594.4	608.3	622.3	625.8	650.2	682.7	698.9	721.3	766.1
152.5°	630.3	619.7	609.2	619.7	630.3	632.9	655.0	684.2	698.9	718.0	756.3
155°	646.6	638.8	631.0	638.8	646.6	648.5	665.3	687.7	698.9	714.2	744.5
157.5°	662.3	654.8	647.2	654.8	662.3	664.2	675.8	691.2	698.9	710.8	734.4
160°	669.9	664.0	658.1	664.0	669.9	671.4	680.6	692.8	698.9	709.0	729.3
162.5°	677.9	673.4	669.0	673.4	677.9	679.0	685.6	694.5	698.9	707.5	724.6
165°	688.9	684.9	680.8	684.9	688.9	689.9	693.0	696.9	698.9	705.1	717.3
167.5°	695.6	693.7	691.9	693.7	695.6	696.1	698.6	702.0	703.7	707.7	715.7
170°	702.8	700.8	698.9	700.8	702.8	703.2	703.4	703.6	703.7	707.7	715.7
172.5°	703.6	703.1	702.8	703.1	703.6	703.7	703.7	703.7	703.7	706.8	713.1
175°	708.0	708.0	708.0	708.0	708.0	708.0	706.5	704.6	703.7	705.7	709.7
177.5°	708.0	708.0	708.0	708.0	708.0	708.0	706.9	705.3	704.6	706.2	709.4
180°	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0



TEST NUMBER: P935460

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	627.8	626.0	628.3	621.6	628.3	626.0	627.8	632.1	628.3	630.8	633.3
5°	550.8	547.8	538.0	529.9	538.0	547.8	550.8	563.7	569.9	581.0	595.8
7.5°	492.3	489.9	487.5	482.5	487.5	489.9	492.3	496.0	502.3	512.1	523.2
10°	479.4	480.0	483.7	483.2	483.7	480.0	479.4	478.2	476.4	478.2	485.0
12.5°	512.7	518.2	538.5	537.3	538.5	518.2	512.7	488.0	471.4	468.4	469.6
15°	550.8	552.6	556.9	557.6	556.9	552.6	550.8	541.0	491.2	469.6	462.8
17.5°	554.6	555.1	558.2	558.2	558.2	555.1	554.6	550.2	533.6	504.6	466.6
20°	551.4	552.6	558.9	560.1	558.9	552.6	551.4	545.9	536.7	526.2	497.3
22.5°	550.2	552.6	557.6	556.9	557.6	552.6	550.2	541.6	533.6	526.2	514.6
25°	544.1	544.1	544.7	545.3	544.7	544.1	544.1	537.3	521.3	519.4	512.7
27.5°	531.2	532.4	536.0	535.5	536.0	532.4	531.2	528.7	511.4	509.6	504.6
30°	519.4	518.2	515.1	512.7	515.1	518.2	519.4	515.7	498.5	493.6	494.8
32.5°	499.8	496.7	493.6	491.8	493.6	496.7	499.8	498.5	485.6	478.9	480.0
35°	476.4	477.0	476.4	474.5	476.4	477.0	476.4	477.6	469.6	463.4	462.8
37.5°	459.8	461.0	460.3	457.9	460.3	461.0	459.8	458.5	447.5	445.6	446.8
40°	442.5	443.2	442.5	440.7	442.5	443.2	442.5	440.0	424.7	425.3	429.6
42.5°	425.9	425.3	423.4	422.2	423.4	425.3	425.9	422.2	402.5	400.7	408.6
45°	406.8	407.5	403.7	401.9	403.7	407.5	406.8	404.3	384.1	379.1	384.7
47.5°	387.7	387.7	384.7	382.8	384.7	387.7	387.7	384.7	363.1	358.2	361.3
50°	367.4	366.8	362.5	361.8	362.5	366.8	367.4	365.6	342.9	338.5	338.5
52.5°	344.0	344.0	344.7	345.9	344.7	344.0	344.0	344.7	324.3	320.0	318.8
55°	323.8	324.3	328.6	329.9	328.6	324.3	323.8	323.8	305.2	300.9	298.5
57.5°	302.8	302.8	305.9	305.9	305.9	302.8	302.8	301.6	283.8	280.0	278.8
60°	278.8	280.0	282.5	281.9	282.5	280.0	278.8	277.6	262.2	259.7	255.4
62.5°	253.6	254.8	255.4	254.2	255.4	254.8	253.6	249.9	240.6	238.8	233.3
65°	227.1	228.3	229.0	227.7	229.0	228.3	227.1	225.3	218.5	215.4	210.5
67.5°	200.1	199.4	198.8	201.3	198.8	199.4	200.1	197.6	193.3	190.8	184.0
70°	172.3	172.3	171.7	173.0	171.7	172.3	172.3	170.5	168.0	166.2	160.0
72.5°	142.8	142.2	144.6	142.8	144.6	142.2	142.8	142.2	141.0	139.1	133.0
75°	113.9	115.1	113.9	115.7	113.9	115.1	113.9	114.4	113.9	112.6	108.3
77.5°	86.8	88.0	86.8	86.8	86.8	88.0	86.8	87.4	87.4	87.4	83.7
80°	61.6	60.9	60.9	60.3	60.9	60.9	61.6	61.6	62.1	60.9	59.7
82.5°	39.4	38.8	38.8	40.0	38.8	38.8	39.4	40.0	38.8	38.8	38.8
85°	21.6	22.1	20.9	20.9	20.9	22.1	21.6	20.3	21.6	21.6	20.9
87.5°	8.0	7.3	7.3	7.3	7.3	7.3	8.0	8.6	8.6	8.6	9.3
90°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	24.0	32.0	36.1	31.0
92.5°	90.3	86.7	72.3	58.0	72.3	86.7	90.3	128.0	178.2	203.4	178.6
95°	306.5	295.6	252.1	208.6	252.1	295.6	306.5	402.5	530.4	594.4	502.0
97.5°	707.5	686.8	604.0	521.3	604.0	686.8	707.5	768.1	849.0	889.4	735.3
100°	993.5	968.8	870.3	771.6	870.3	968.8	993.5	989.1	983.1	980.2	809.2
102.5°	1237.8	1216.7	1132.2	1047.7	1132.2	1216.7	1237.8	1160.5	1057.5	1005.9	832.5
105°	1522.8	1511.4	1466.1	1420.7	1466.1	1511.4	1522.8	1349.6	1118.6	1003.0	835.2
107.5°	1671.0	1673.8	1684.8	1695.8	1684.8	1673.8	1671.0	1429.4	1107.2	946.1	798.0
110°	1709.1	1721.0	1768.2	1815.5	1768.2	1721.0	1709.1	1438.9	1078.7	898.5	765.1



TEST NUMBER: P935460

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1684.9	1703.1	1775.6	1848.3	1775.6	1703.1	1684.9	1408.4	1039.7	855.3	736.3
115°	1602.7	1627.8	1728.6	1829.3	1728.6	1627.8	1602.7	1336.3	981.0	803.4	703.2
117.5°	1489.1	1516.9	1628.7	1740.4	1628.7	1516.9	1489.1	1248.6	928.1	767.8	682.7
120°	1412.6	1439.8	1548.2	1656.8	1548.2	1439.8	1412.6	1192.9	900.1	753.6	675.7
122.5°	1336.1	1362.9	1469.9	1577.0	1469.9	1362.9	1336.1	1138.3	874.6	742.7	672.0
125°	1234.9	1259.5	1358.1	1456.7	1358.1	1259.5	1234.9	1066.8	842.8	730.8	669.0
127.5°	1153.6	1174.5	1257.6	1340.8	1257.6	1174.5	1153.6	1009.4	816.9	720.8	667.3
130°	1102.3	1121.5	1198.4	1275.3	1198.4	1121.5	1102.3	973.9	802.6	717.0	668.4
132.5°	1058.7	1075.8	1144.6	1213.5	1144.6	1075.8	1058.7	943.7	790.3	713.7	669.0
135°	996.9	1011.8	1071.0	1130.3	1071.0	1011.8	996.9	900.6	772.2	708.0	668.4
137.5°	951.2	963.3	1011.9	1060.5	1011.9	963.3	951.2	869.8	761.2	707.0	672.5
140°	914.7	926.0	971.4	1016.8	971.4	926.0	914.7	844.4	750.6	703.7	673.2
142.5°	889.0	898.7	937.8	976.9	937.8	898.7	889.0	827.2	744.9	703.7	675.6
145°	850.5	858.0	887.5	917.1	887.5	858.0	850.5	800.0	732.6	698.9	675.6
147.5°	818.2	824.4	848.8	873.3	848.8	824.4	818.2	778.5	725.4	698.9	680.2
150°	799.7	804.6	824.5	844.4	824.5	804.6	799.7	766.1	721.3	698.9	682.7
152.5°	784.9	788.7	803.6	818.7	803.6	788.7	784.9	756.3	718.0	698.9	684.2
155°	767.4	769.9	779.8	789.7	779.8	769.9	767.4	744.5	714.2	698.9	687.7
157.5°	752.1	753.9	760.9	767.8	760.9	753.9	752.1	734.4	710.8	698.9	691.2
160°	744.5	745.5	749.6	753.6	749.6	745.5	744.5	729.3	709.0	698.9	692.8
162.5°	737.5	738.4	742.2	746.0	742.2	738.4	737.5	724.6	707.5	698.9	694.5
165°	726.4	727.5	731.5	735.5	731.5	727.5	726.4	717.3	705.1	698.9	696.9
167.5°	721.8	722.2	723.9	725.5	723.9	722.2	721.8	715.7	707.7	703.7	702.0
170°	721.8	721.8	721.8	721.8	721.8	721.8	721.8	715.7	707.7	703.7	703.6
172.5°	717.9	717.5	716.1	714.6	716.1	717.5	717.9	713.1	706.8	703.7	703.7
175°	712.7	712.7	712.7	712.7	712.7	712.7	712.7	709.7	705.7	703.7	704.6
177.5°	711.8	711.3	709.7	708.0	709.7	711.3	711.8	709.4	706.2	704.6	705.3
180°	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0



TEST NUMBER: P935460

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	650.6	650.6	650.6	650.6	650.6
2.5°	642.6	645.6	647.4	649.9	656.1
5°	617.9	629.6	633.3	642.6	653.6
7.5°	563.7	599.4	609.3	631.5	648.7
10°	511.4	547.1	564.4	616.7	642.6
12.5°	485.0	505.9	517.6	590.8	633.9
15°	468.4	483.2	491.8	556.4	624.0
17.5°	455.5	465.9	472.1	522.5	610.5
20°	447.5	452.3	457.9	497.9	595.1
22.5°	441.9	438.8	443.2	480.7	574.2
25°	438.2	426.5	431.4	467.1	549.6
27.5°	441.3	415.4	417.3	454.8	523.7
30°	441.9	401.9	402.5	441.9	494.8
32.5°	437.6	387.7	388.4	425.9	462.2
35°	427.1	371.1	370.5	407.5	417.9
37.5°	413.0	353.3	353.3	387.1	369.3
40°	395.7	335.4	337.3	360.7	326.1
42.5°	374.8	316.3	318.8	325.6	294.2
45°	352.0	297.9	299.7	275.1	269.5
47.5°	326.8	278.8	279.4	228.3	261.5
50°	296.7	259.1	256.7	195.7	261.0
52.5°	270.2	237.6	230.2	177.2	236.9
55°	244.3	214.8	198.8	163.1	219.7
57.5°	221.5	185.3	169.9	146.5	216.0
60°	200.6	156.3	144.6	128.7	198.2
62.5°	183.4	134.8	132.3	116.4	179.7
65°	164.9	120.0	119.4	105.9	152.6
67.5°	147.1	110.1	109.6	96.0	116.4
70°	128.0	99.7	98.5	85.5	86.2
72.5°	108.3	88.0	86.8	76.9	71.4
75°	88.6	74.4	73.9	67.1	57.8
77.5°	69.6	59.1	60.3	54.1	42.5
80°	49.8	43.0	44.3	38.8	32.0
82.5°	33.2	28.4	29.5	24.6	21.6
85°	18.4	16.0	16.6	12.9	9.8
87.5°	8.6	7.3	7.3	5.0	3.1
90°	20.9	13.3	12.4	8.5	4.8
92.5°	128.9	91.7	83.6	51.3	19.0
95°	317.2	178.7	163.9	104.7	45.6
97.5°	427.3	196.2	183.2	131.0	78.8
100°	467.4	211.0	199.1	151.9	104.5
102.5°	485.7	225.7	214.6	170.5	126.4
105°	499.4	247.6	238.2	200.9	163.4
107.5°	502.0	279.9	271.2	236.3	201.4
110°	498.1	297.9	290.0	258.6	227.1



TEST NUMBER: P935460

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	498.2	319.7	312.2	282.3	252.3
115°	502.9	352.6	345.7	318.0	290.3
117.5°	512.3	384.4	378.2	353.0	327.9
120°	519.9	403.0	397.1	373.4	349.7
122.5°	530.8	424.8	418.8	395.0	371.1
125°	545.5	452.8	447.4	425.6	403.9
127.5°	560.2	479.9	474.4	452.4	430.5
130°	571.0	497.9	492.1	468.4	444.7
132.5°	579.7	512.7	506.8	483.2	459.5
135°	589.2	529.8	524.4	502.9	481.3
137.5°	603.4	551.6	546.3	524.9	503.6
140°	612.2	566.4	561.4	541.8	522.2
142.5°	619.4	577.3	572.7	554.6	536.4
145°	628.9	593.9	590.0	574.1	558.3
147.5°	642.8	614.9	611.0	595.6	580.2
150°	650.2	625.8	622.3	608.3	594.4
152.5°	655.0	632.9	630.3	619.7	609.2
155°	665.3	648.5	646.6	638.8	631.0
157.5°	675.8	664.2	662.3	654.8	647.2
160°	680.6	671.4	669.9	664.0	658.1
162.5°	685.6	679.0	677.9	673.4	669.0
165°	693.0	689.9	688.9	684.9	680.8
167.5°	698.6	696.1	695.6	693.7	691.9
170°	703.4	703.2	702.8	700.8	698.9
172.5°	703.7	703.7	703.6	703.1	702.8
175°	706.5	708.0	708.0	708.0	708.0
177.5°	706.9	708.0	708.0	708.0	708.0
180°	708.0	708.0	708.0	708.0	708.0



TEST NUMBER: P935460  
 CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-5000K

**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	8.39	9.07	9.52	10.20	11.76	11.18	11.87	12.32	12.99	14.56
	3H	8.85	9.46	9.99	10.60	12.18	12.50	13.12	13.65	14.25	15.83
	4H	9.03	9.61	10.18	10.75	12.34	12.93	13.52	14.08	14.65	16.24
	6H	9.14	9.68	10.30	10.81	12.41	13.20	13.74	14.36	14.87	16.47
	8H	9.14	9.65	10.30	10.80	12.39	13.27	13.78	14.43	14.93	16.52
	12H	9.10	9.59	10.27	10.73	12.34	13.29	13.78	14.46	14.92	16.54
4H	2H	9.39	9.97	10.55	11.10	12.69	11.57	12.16	12.73	13.29	14.88
	3H	10.40	10.88	11.56	12.04	13.64	13.05	13.54	14.21	14.70	16.30
	4H	10.67	11.11	11.83	12.26	13.88	13.56	14.01	14.73	15.16	16.78
	6H	10.78	11.16	11.95	12.33	13.94	13.91	14.29	15.08	15.46	17.07
	8H	10.78	11.14	11.95	12.30	13.93	14.01	14.37	15.18	15.53	17.15
	12H	10.74	11.07	11.93	12.24	13.87	14.05	14.38	15.24	15.55	17.18
8H	4H	11.10	11.46	12.27	12.62	14.25	13.68	14.03	14.85	15.19	16.82
	6H	11.35	11.65	12.54	12.85	14.48	14.10	14.39	15.29	15.59	17.22
	8H	11.40	11.65	12.59	12.83	14.48	14.24	14.50	15.44	15.68	17.32
	12H	11.37	11.60	12.57	12.78	14.45	14.33	14.55	15.52	15.73	17.41
12H	4H	11.10	11.42	12.28	12.59	14.22	13.63	13.96	14.82	15.13	16.76
	6H	11.41	11.67	12.61	12.85	14.49	14.09	14.35	15.29	15.53	17.17
	8H	11.47	11.70	12.67	12.88	14.55	14.24	14.47	15.44	15.65	17.32