

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: P935482

Luminaire Tested: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935482
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-B2750-1D-UNV-STD-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

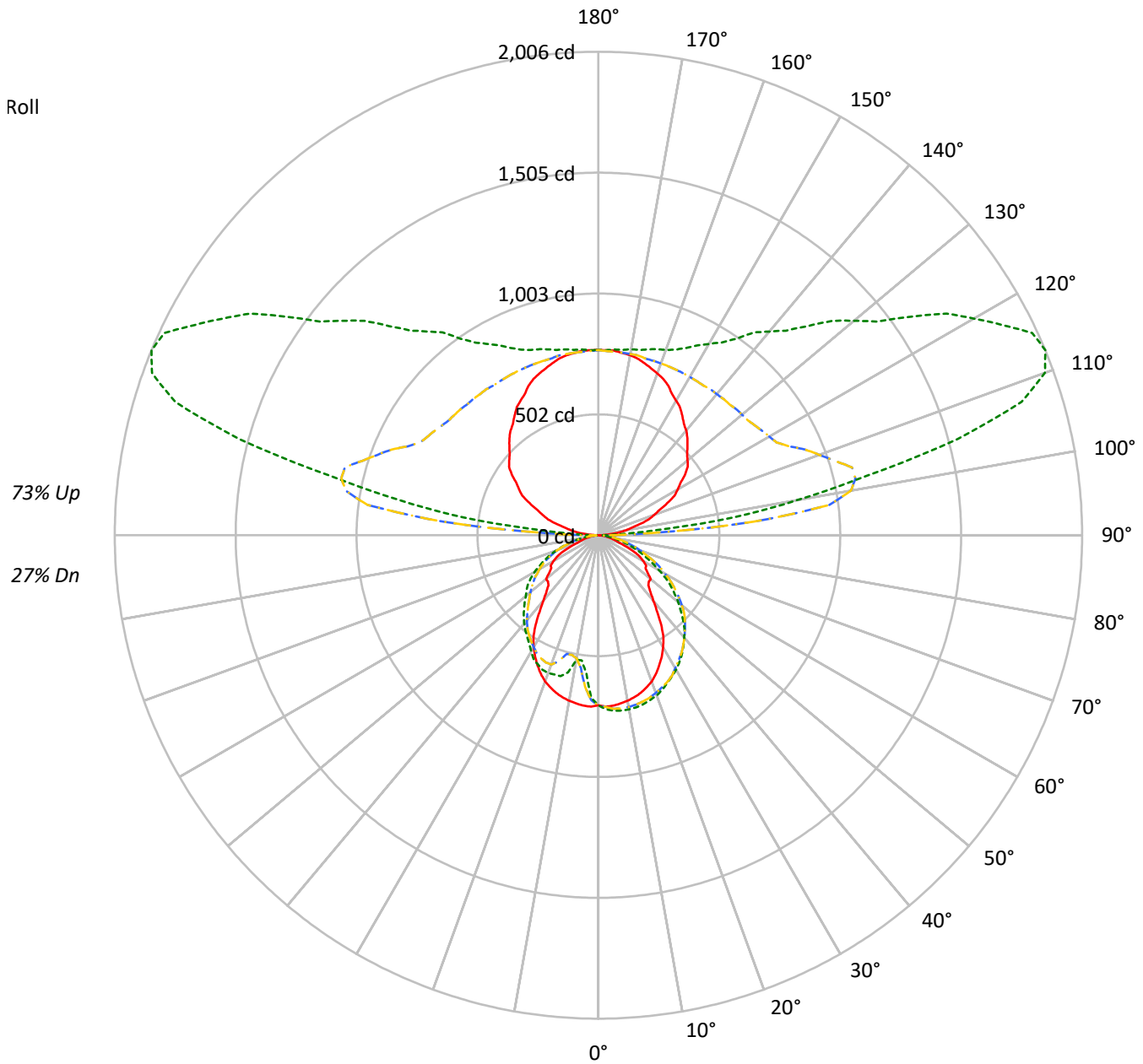
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6814.7 lumens
Efficiency: N/A
Efficacy: 143.2 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

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CATALOG NUMBER: SQ4-FA-125U-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	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°	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	0.9
10°-20°	181.0	2.7
20°-30°	279.7	4.1
30°-40°	333.9	4.9
40°-50°	335.9	4.9
50°-60°	292.3	4.3
60°-70°	207.2	3.0
70°-80°	109.6	1.6
80°-90°	30.2	0.4
90°-100°	374.5	5.5
100°-110°	984.7	14.4
110°-120°	1021.0	15.0
120°-130°	819.0	12.0
130°-140°	642.6	9.4
140°-150°	493.2	7.2
150°-160°	355.2	5.2
160°-170°	217.3	3.2
170°-180°	73.4	1.1
0°-30°	524.4	7.7
0°-40°	858.3	12.6
0°-60°	1486.5	21.8
0°-90°	1833.6	26.9
90°-120°	2380.3	34.9
90°-150°	4335.1	63.6
90°-180°	4981.0	73.1
0°-180°	6814.7	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°	5	20	5	20	5	5
95°	50	226	50	226	50	55
105°	177	1542	177	1542	177	188
115°	315	1985	315	1985	315	311
125°	438	1581	438	1581	438	389
135°	522	1227	522	1227	522	404
145°	606	995	606	995	606	380
155°	685	857	685	857	685	315
165°	739	798	739	798	739	209
175°	768	774	768	774	768	73
180°	768	768	768	768	768	



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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°	5.2	9.3	13.4	14.4	22.7	33.7	39.1	34.8	26.1	19.6	19.6
92.5°	20.6	55.7	90.7	99.5	139.9	193.8	220.7	193.4	138.9	98.0	94.1
95°	49.5	113.6	177.9	193.9	344.3	544.8	645.1	575.7	436.8	332.7	320.8
97.5°	85.6	142.1	198.8	212.9	463.7	798.1	965.3	921.4	833.7	767.8	745.4
100°	113.4	164.8	216.1	229.0	507.3	878.3	1063.8	1067.0	1073.5	1078.3	1051.5
102.5°	137.1	185.1	233.0	244.9	527.2	903.6	1091.7	1147.7	1259.5	1343.4	1320.5
105°	177.4	218.0	258.6	268.7	542.0	906.5	1088.6	1214.0	1464.7	1652.8	1640.4
107.5°	218.6	256.5	294.3	303.8	544.8	866.1	1026.8	1201.7	1551.4	1813.6	1816.6
110°	246.5	280.7	314.7	323.3	540.6	830.4	975.2	1170.7	1561.7	1855.0	1867.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	273.8	306.4	338.8	347.0	540.7	799.1	928.3	1128.4	1528.6	1828.7	1848.4
115°	315.0	345.1	375.2	382.7	545.8	763.2	872.0	1064.7	1450.3	1739.4	1766.7
117.5°	355.9	383.2	410.5	417.2	556.0	740.9	833.4	1007.3	1355.2	1616.1	1646.4
120°	379.6	405.3	431.0	437.3	564.2	733.4	817.9	976.9	1294.7	1533.1	1562.6
122.5°	402.8	428.7	454.6	461.0	576.1	729.4	806.1	949.2	1235.4	1450.1	1479.2
125°	438.3	461.9	485.6	491.4	592.0	726.1	793.1	914.7	1157.8	1340.2	1367.0
127.5°	467.2	491.0	514.8	520.8	608.0	724.2	782.3	886.6	1095.5	1252.1	1274.7
130°	482.7	508.4	534.1	540.4	619.7	725.4	778.2	871.1	1057.0	1196.4	1217.2
132.5°	498.7	524.4	550.1	556.5	629.2	726.1	774.6	857.8	1024.2	1149.0	1167.6
135°	522.4	545.8	569.1	575.0	639.4	725.4	768.4	838.1	977.5	1082.0	1098.1
137.5°	546.6	569.7	592.9	598.7	654.9	729.9	767.3	826.2	944.0	1032.4	1045.5
140°	566.7	588.0	609.4	614.7	664.4	730.7	763.7	814.6	916.4	992.7	1005.1
142.5°	582.2	601.9	621.6	626.6	672.3	733.3	763.7	808.5	897.8	964.8	975.4
145°	606.0	623.1	640.3	644.6	682.6	733.3	758.6	795.1	868.2	923.1	931.2
147.5°	629.7	646.4	663.1	667.3	697.7	738.2	758.6	787.3	844.9	888.0	894.7
150°	645.1	660.2	675.4	679.2	705.7	740.9	758.6	782.9	831.5	867.9	873.3
152.5°	661.1	672.6	684.1	686.9	710.8	742.6	758.6	779.3	820.8	851.9	856.0
155°	684.8	693.3	701.8	703.9	722.1	746.4	758.6	775.1	808.1	832.9	835.5
157.5°	702.4	710.6	718.8	720.9	733.5	750.2	758.6	771.4	797.1	816.3	818.2
160°	714.2	720.6	727.1	728.7	738.6	751.9	758.6	769.5	791.5	808.1	809.2
162.5°	726.1	730.9	735.7	736.9	744.1	753.8	758.6	767.8	786.4	800.4	801.4
165°	738.9	743.3	747.7	748.8	752.1	756.4	758.6	765.2	778.5	788.4	789.5
167.5°	750.9	752.9	755.0	755.5	758.3	761.9	763.7	768.1	776.8	783.4	783.9
170°	758.6	760.6	762.7	763.2	763.4	763.6	763.7	768.1	776.8	783.4	783.4
172.5°	762.7	763.1	763.6	763.7	763.7	763.7	763.7	767.1	774.0	779.2	778.8
175°	768.4	768.4	768.4	768.4	766.8	764.7	763.7	765.9	770.2	773.5	773.5
177.5°	768.4	768.4	768.4	768.4	767.2	765.5	764.7	766.4	769.9	772.5	772.0
180°	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4



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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°	19.6	19.6	19.6	19.6	19.6	26.1	34.8	39.1	33.7	22.7	14.4
92.5°	78.5	62.9	78.5	94.1	98.0	138.9	193.4	220.7	193.8	139.9	99.5
95°	273.6	226.4	273.6	320.8	332.7	436.8	575.7	645.1	544.8	344.3	193.9
97.5°	655.6	565.7	655.6	745.4	767.8	833.7	921.4	965.3	798.1	463.7	212.9
100°	944.5	837.4	944.5	1051.5	1078.3	1073.5	1067.0	1063.8	878.3	507.3	229.0
102.5°	1228.8	1137.1	1228.8	1320.5	1343.4	1259.5	1147.7	1091.7	903.6	527.2	244.9
105°	1591.2	1541.9	1591.2	1640.4	1652.8	1464.7	1214.0	1088.6	906.5	542.0	268.7
107.5°	1828.6	1840.5	1828.6	1816.6	1813.6	1551.4	1201.7	1026.8	866.1	544.8	303.8
110°	1919.1	1970.4	1919.1	1867.8	1855.0	1561.7	1170.7	975.2	830.4	540.6	323.3



TEST NUMBER: P935482

CATALOG NUMBER: SQ4-FA-125U-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°	1927.2	2006.0	1927.2	1848.4	1828.7	1528.6	1128.4	928.3	799.1	540.7	347.0
115°	1876.1	1985.4	1876.1	1766.7	1739.4	1450.3	1064.7	872.0	763.2	545.8	382.7
117.5°	1767.7	1888.9	1767.7	1646.4	1616.1	1355.2	1007.3	833.4	740.9	556.0	417.2
120°	1680.4	1798.2	1680.4	1562.6	1533.1	1294.7	976.9	817.9	733.4	564.2	437.3
122.5°	1595.3	1711.5	1595.3	1479.2	1450.1	1235.4	949.2	806.1	729.4	576.1	461.0
125°	1474.0	1581.1	1474.0	1367.0	1340.2	1157.8	914.7	793.1	726.1	592.0	491.4
127.5°	1364.9	1455.3	1364.9	1274.7	1252.1	1095.5	886.6	782.3	724.2	608.0	520.8
130°	1300.7	1384.1	1300.7	1217.2	1196.4	1057.0	871.1	778.2	725.4	619.7	540.4
132.5°	1242.3	1317.0	1242.3	1167.6	1149.0	1024.2	857.8	774.6	726.1	629.2	556.5
135°	1162.4	1226.8	1162.4	1098.1	1082.0	977.5	838.1	768.4	725.4	639.4	575.0
137.5°	1098.3	1151.0	1098.3	1045.5	1032.4	944.0	826.2	767.3	729.9	654.9	598.7
140°	1054.3	1103.6	1054.3	1005.1	992.7	916.4	814.6	763.7	730.7	664.4	614.7
142.5°	1017.8	1060.2	1017.8	975.4	964.8	897.8	808.5	763.7	733.3	672.3	626.6
145°	963.2	995.3	963.2	931.2	923.1	868.2	795.1	758.6	733.3	682.6	644.6
147.5°	921.2	947.8	921.2	894.7	888.0	844.9	787.3	758.6	738.2	697.7	667.3
150°	894.9	916.4	894.9	873.3	867.9	831.5	782.9	758.6	740.9	705.7	679.2
152.5°	872.2	888.5	872.2	856.0	851.9	820.8	779.3	758.6	742.6	710.8	686.9
155°	846.3	857.1	846.3	835.5	832.9	808.1	775.1	758.6	746.4	722.1	703.9
157.5°	825.8	833.4	825.8	818.2	816.3	797.1	771.4	758.6	750.2	733.5	720.9
160°	813.5	817.9	813.5	809.2	808.1	791.5	769.5	758.6	751.9	738.6	728.7
162.5°	805.6	809.6	805.6	801.4	800.4	786.4	767.8	758.6	753.8	744.1	736.9
165°	793.9	798.3	793.9	789.5	788.4	778.5	765.2	758.6	756.4	752.1	748.8
167.5°	785.6	787.4	785.6	783.9	783.4	776.8	768.1	763.7	761.9	758.3	755.5
170°	783.4	783.4	783.4	783.4	783.4	776.8	768.1	763.7	763.6	763.4	763.2
172.5°	777.2	775.6	777.2	778.8	779.2	774.0	767.1	763.7	763.7	763.7	763.7
175°	773.5	773.5	773.5	773.5	773.5	770.2	765.9	763.7	764.7	766.8	768.4
177.5°	770.2	768.4	770.2	772.0	772.5	769.9	766.4	764.7	765.5	767.2	768.4
180°	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4



TEST NUMBER: P935482

CATALOG NUMBER: SQ4-FA-125U-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°	13.4	9.3	5.2	9.3	13.4	14.4	22.7	33.7	39.1	34.8	26.1
92.5°	90.7	55.7	20.6	55.7	90.7	99.5	139.9	193.8	220.7	193.4	138.9
95°	177.9	113.6	49.5	113.6	177.9	193.9	344.3	544.8	645.1	575.7	436.8
97.5°	198.8	142.1	85.6	142.1	198.8	212.9	463.7	798.1	965.3	921.4	833.7
100°	216.1	164.8	113.4	164.8	216.1	229.0	507.3	878.3	1063.8	1067.0	1073.5
102.5°	233.0	185.1	137.1	185.1	233.0	244.9	527.2	903.6	1091.7	1147.7	1259.5
105°	258.6	218.0	177.4	218.0	258.6	268.7	542.0	906.5	1088.6	1214.0	1464.7
107.5°	294.3	256.5	218.6	256.5	294.3	303.8	544.8	866.1	1026.8	1201.7	1551.4
110°	314.7	280.7	246.5	280.7	314.7	323.3	540.6	830.4	975.2	1170.7	1561.7



TEST NUMBER: P935482

CATALOG NUMBER: SQ4-FA-125U-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°	338.8	306.4	273.8	306.4	338.8	347.0	540.7	799.1	928.3	1128.4	1528.6
115°	375.2	345.1	315.0	345.1	375.2	382.7	545.8	763.2	872.0	1064.7	1450.3
117.5°	410.5	383.2	355.9	383.2	410.5	417.2	556.0	740.9	833.4	1007.3	1355.2
120°	431.0	405.3	379.6	405.3	431.0	437.3	564.2	733.4	817.9	976.9	1294.7
122.5°	454.6	428.7	402.8	428.7	454.6	461.0	576.1	729.4	806.1	949.2	1235.4
125°	485.6	461.9	438.3	461.9	485.6	491.4	592.0	726.1	793.1	914.7	1157.8
127.5°	514.8	491.0	467.2	491.0	514.8	520.8	608.0	724.2	782.3	886.6	1095.5
130°	534.1	508.4	482.7	508.4	534.1	540.4	619.7	725.4	778.2	871.1	1057.0
132.5°	550.1	524.4	498.7	524.4	550.1	556.5	629.2	726.1	774.6	857.8	1024.2
135°	569.1	545.8	522.4	545.8	569.1	575.0	639.4	725.4	768.4	838.1	977.5
137.5°	592.9	569.7	546.6	569.7	592.9	598.7	654.9	729.9	767.3	826.2	944.0
140°	609.4	588.0	566.7	588.0	609.4	614.7	664.4	730.7	763.7	814.6	916.4
142.5°	621.6	601.9	582.2	601.9	621.6	626.6	672.3	733.3	763.7	808.5	897.8
145°	640.3	623.1	606.0	623.1	640.3	644.6	682.6	733.3	758.6	795.1	868.2
147.5°	663.1	646.4	629.7	646.4	663.1	667.3	697.7	738.2	758.6	787.3	844.9
150°	675.4	660.2	645.1	660.2	675.4	679.2	705.7	740.9	758.6	782.9	831.5
152.5°	684.1	672.6	661.1	672.6	684.1	686.9	710.8	742.6	758.6	779.3	820.8
155°	701.8	693.3	684.8	693.3	701.8	703.9	722.1	746.4	758.6	775.1	808.1
157.5°	718.8	710.6	702.4	710.6	718.8	720.9	733.5	750.2	758.6	771.4	797.1
160°	727.1	720.6	714.2	720.6	727.1	728.7	738.6	751.9	758.6	769.5	791.5
162.5°	735.7	730.9	726.1	730.9	735.7	736.9	744.1	753.8	758.6	767.8	786.4
165°	747.7	743.3	738.9	743.3	747.7	748.8	752.1	756.4	758.6	765.2	778.5
167.5°	755.0	752.9	750.9	752.9	755.0	755.5	758.3	761.9	763.7	768.1	776.8
170°	762.7	760.6	758.6	760.6	762.7	763.2	763.4	763.6	763.7	768.1	776.8
172.5°	763.6	763.1	762.7	763.1	763.6	763.7	763.7	763.7	763.7	767.1	774.0
175°	768.4	768.4	768.4	768.4	768.4	768.4	766.8	764.7	763.7	765.9	770.2
177.5°	768.4	768.4	768.4	768.4	768.4	768.4	767.2	765.5	764.7	766.4	769.9
180°	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4



TEST NUMBER: P935482

CATALOG NUMBER: SQ4-FA-125U-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°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	26.1	34.8	39.1	33.7
92.5°	98.0	94.1	78.5	62.9	78.5	94.1	98.0	138.9	193.4	220.7	193.8
95°	332.7	320.8	273.6	226.4	273.6	320.8	332.7	436.8	575.7	645.1	544.8
97.5°	767.8	745.4	655.6	565.7	655.6	745.4	767.8	833.7	921.4	965.3	798.1
100°	1078.3	1051.5	944.5	837.4	944.5	1051.5	1078.3	1073.5	1067.0	1063.8	878.3
102.5°	1343.4	1320.5	1228.8	1137.1	1228.8	1320.5	1343.4	1259.5	1147.7	1091.7	903.6
105°	1652.8	1640.4	1591.2	1541.9	1591.2	1640.4	1652.8	1464.7	1214.0	1088.6	906.5
107.5°	1813.6	1816.6	1828.6	1840.5	1828.6	1816.6	1813.6	1551.4	1201.7	1026.8	866.1
110°	1855.0	1867.8	1919.1	1970.4	1919.1	1867.8	1855.0	1561.7	1170.7	975.2	830.4



TEST NUMBER: P935482

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1828.7	1848.4	1927.2	2006.0	1927.2	1848.4	1828.7	1528.6	1128.4	928.3	799.1
115°	1739.4	1766.7	1876.1	1985.4	1876.1	1766.7	1739.4	1450.3	1064.7	872.0	763.2
117.5°	1616.1	1646.4	1767.7	1888.9	1767.7	1646.4	1616.1	1355.2	1007.3	833.4	740.9
120°	1533.1	1562.6	1680.4	1798.2	1680.4	1562.6	1533.1	1294.7	976.9	817.9	733.4
122.5°	1450.1	1479.2	1595.3	1711.5	1595.3	1479.2	1450.1	1235.4	949.2	806.1	729.4
125°	1340.2	1367.0	1474.0	1581.1	1474.0	1367.0	1340.2	1157.8	914.7	793.1	726.1
127.5°	1252.1	1274.7	1364.9	1455.3	1364.9	1274.7	1252.1	1095.5	886.6	782.3	724.2
130°	1196.4	1217.2	1300.7	1384.1	1300.7	1217.2	1196.4	1057.0	871.1	778.2	725.4
132.5°	1149.0	1167.6	1242.3	1317.0	1242.3	1167.6	1149.0	1024.2	857.8	774.6	726.1
135°	1082.0	1098.1	1162.4	1226.8	1162.4	1098.1	1082.0	977.5	838.1	768.4	725.4
137.5°	1032.4	1045.5	1098.3	1151.0	1098.3	1045.5	1032.4	944.0	826.2	767.3	729.9
140°	992.7	1005.1	1054.3	1103.6	1054.3	1005.1	992.7	916.4	814.6	763.7	730.7
142.5°	964.8	975.4	1017.8	1060.2	1017.8	975.4	964.8	897.8	808.5	763.7	733.3
145°	923.1	931.2	963.2	995.3	963.2	931.2	923.1	868.2	795.1	758.6	733.3
147.5°	888.0	894.7	921.2	947.8	921.2	894.7	888.0	844.9	787.3	758.6	738.2
150°	867.9	873.3	894.9	916.4	894.9	873.3	867.9	831.5	782.9	758.6	740.9
152.5°	851.9	856.0	872.2	888.5	872.2	856.0	851.9	820.8	779.3	758.6	742.6
155°	832.9	835.5	846.3	857.1	846.3	835.5	832.9	808.1	775.1	758.6	746.4
157.5°	816.3	818.2	825.8	833.4	825.8	818.2	816.3	797.1	771.4	758.6	750.2
160°	808.1	809.2	813.5	817.9	813.5	809.2	808.1	791.5	769.5	758.6	751.9
162.5°	800.4	801.4	805.6	809.6	805.6	801.4	800.4	786.4	767.8	758.6	753.8
165°	788.4	789.5	793.9	798.3	793.9	789.5	788.4	778.5	765.2	758.6	756.4
167.5°	783.4	783.9	785.6	787.4	785.6	783.9	783.4	776.8	768.1	763.7	761.9
170°	783.4	783.4	783.4	783.4	783.4	783.4	783.4	776.8	768.1	763.7	763.6
172.5°	779.2	778.8	777.2	775.6	777.2	778.8	779.2	774.0	767.1	763.7	763.7
175°	773.5	773.5	773.5	773.5	773.5	773.5	773.5	770.2	765.9	763.7	764.7
177.5°	772.5	772.0	770.2	768.4	770.2	772.0	772.5	769.9	766.4	764.7	765.5
180°	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4	768.4



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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°	22.7	14.4	13.4	9.3	5.2
92.5°	139.9	99.5	90.7	55.7	20.6
95°	344.3	193.9	177.9	113.6	49.5
97.5°	463.7	212.9	198.8	142.1	85.6
100°	507.3	229.0	216.1	164.8	113.4
102.5°	527.2	244.9	233.0	185.1	137.1
105°	542.0	268.7	258.6	218.0	177.4
107.5°	544.8	303.8	294.3	256.5	218.6
110°	540.6	323.3	314.7	280.7	246.5



TEST NUMBER: P935482

CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	540.7	347.0	338.8	306.4	273.8
115°	545.8	382.7	375.2	345.1	315.0
117.5°	556.0	417.2	410.5	383.2	355.9
120°	564.2	437.3	431.0	405.3	379.6
122.5°	576.1	461.0	454.6	428.7	402.8
125°	592.0	491.4	485.6	461.9	438.3
127.5°	608.0	520.8	514.8	491.0	467.2
130°	619.7	540.4	534.1	508.4	482.7
132.5°	629.2	556.5	550.1	524.4	498.7
135°	639.4	575.0	569.1	545.8	522.4
137.5°	654.9	598.7	592.9	569.7	546.6
140°	664.4	614.7	609.4	588.0	566.7
142.5°	672.3	626.6	621.6	601.9	582.2
145°	682.6	644.6	640.3	623.1	606.0
147.5°	697.7	667.3	663.1	646.4	629.7
150°	705.7	679.2	675.4	660.2	645.1
152.5°	710.8	686.9	684.1	672.6	661.1
155°	722.1	703.9	701.8	693.3	684.8
157.5°	733.5	720.9	718.8	710.6	702.4
160°	738.6	728.7	727.1	720.6	714.2
162.5°	744.1	736.9	735.7	730.9	726.1
165°	752.1	748.8	747.7	743.3	738.9
167.5°	758.3	755.5	755.0	752.9	750.9
170°	763.4	763.2	762.7	760.6	758.6
172.5°	763.7	763.7	763.6	763.1	762.7
175°	766.8	768.4	768.4	768.4	768.4
177.5°	767.2	768.4	768.4	768.4	768.4
180°	768.4	768.4	768.4	768.4	768.4



TEST NUMBER: P935482
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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	8.67	9.36	9.80	10.48	12.05	11.47	12.15	12.60	13.28	14.84
	3H	9.13	9.75	10.27	10.88	12.46	12.79	13.40	13.93	14.54	16.12
	4H	9.32	9.90	10.47	11.03	12.62	13.22	13.80	14.37	14.93	16.52
	6H	9.43	9.96	10.58	11.10	12.70	13.49	14.02	14.64	15.16	16.76
	8H	9.42	9.93	10.58	11.08	12.67	13.55	14.06	14.71	15.21	16.80
	12H	9.39	9.87	10.55	11.02	12.63	13.58	14.06	14.74	15.21	16.82
4H	2H	9.67	10.26	10.83	11.39	12.98	11.86	12.44	13.01	13.57	15.16
	3H	10.68	11.17	11.84	12.33	13.93	13.34	13.82	14.50	14.98	16.58
	4H	10.95	11.40	12.12	12.54	14.16	13.85	14.30	15.01	15.44	17.06
	6H	11.07	11.45	12.24	12.62	14.23	14.20	14.58	15.37	15.75	17.36
	8H	11.07	11.42	12.24	12.59	14.21	14.29	14.65	15.46	15.81	17.44
	12H	11.03	11.35	12.21	12.52	14.15	14.34	14.66	15.52	15.83	17.46
8H	4H	11.38	11.74	12.55	12.90	14.53	13.96	14.32	15.13	15.48	17.10
	6H	11.64	11.93	12.83	13.14	14.76	14.38	14.68	15.57	15.88	17.50
	8H	11.68	11.94	12.87	13.12	14.76	14.53	14.78	15.72	15.96	17.61
	12H	11.66	11.88	12.85	13.06	14.74	14.61	14.84	15.81	16.02	17.69
12H	4H	11.38	11.71	12.57	12.88	14.51	13.92	14.24	15.10	15.41	17.04
	6H	11.70	11.95	12.89	13.14	14.78	14.38	14.63	15.57	15.82	17.46
	8H	11.76	11.98	12.95	13.16	14.83	14.52	14.75	15.72	15.93	17.60