

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: P935485

Luminaire Tested: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935485
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-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

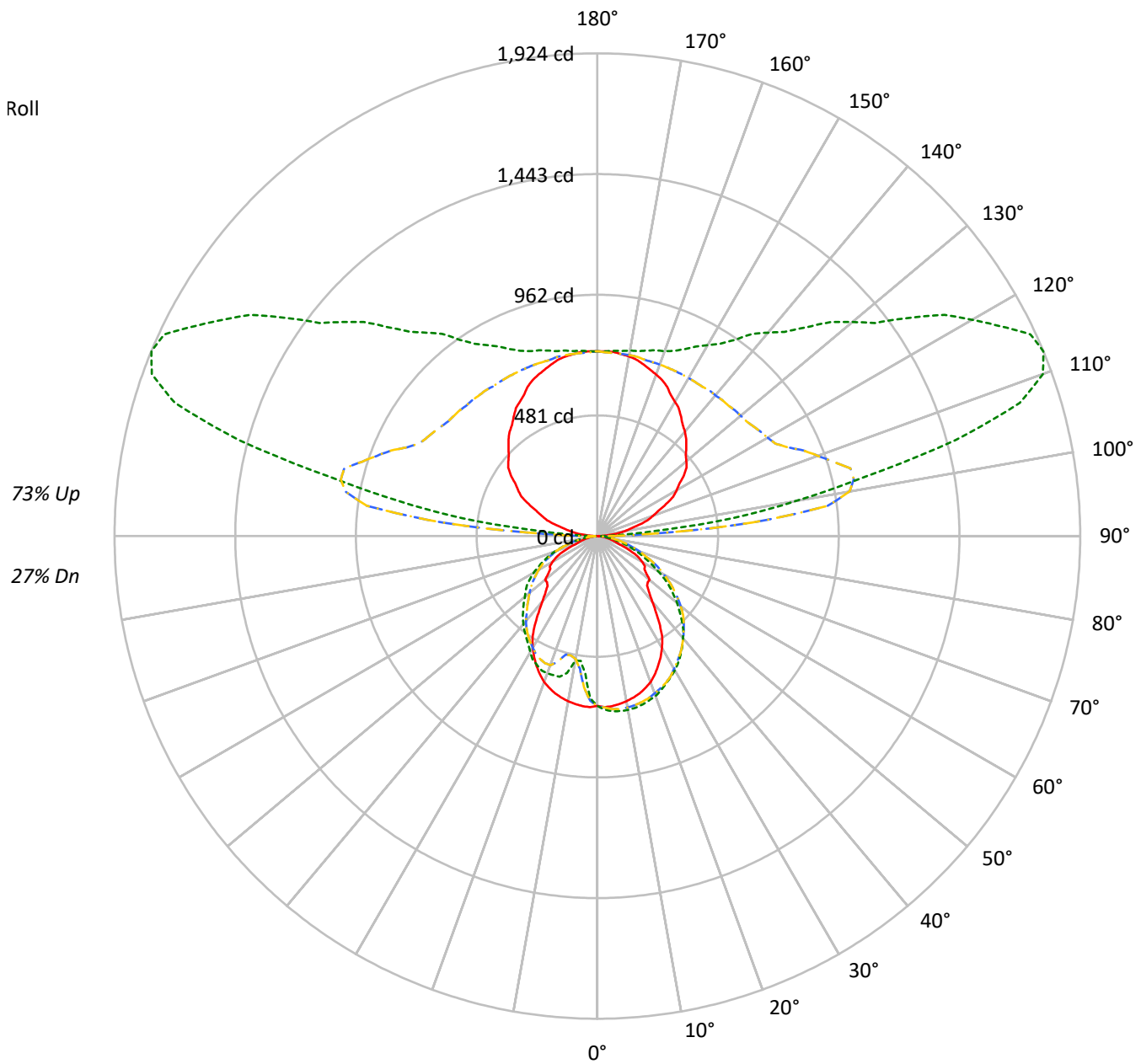
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6534.1 lumens
Efficiency: N/A
Efficacy: 137.3 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 (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6282	6282	6282	6282
5°	6322	6342	6322	4986
10°	6273	6247	6273	4466
15°	6197	6112	6197	5103
20°	6060	5950	6060	5113
25°	5788	5717	5788	5005
30°	5439	5523	5439	4768
35°	4842	5277	4842	4506
40°	4027	4989	4027	4308
45°	3591	4650	3591	4081
50°	3807	4246	3807	3853
55°	3571	3811	3571	3721
60°	3670	3237	3670	3409
65°	3309	2676	3309	2990
70°	2277	2133	2277	2508
75°	1974	1577	1974	1888
80°	1558	1043	1558	1134
85°	845	552	845	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5515 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	0.9
10°-20°	173.5	2.7
20°-30°	268.2	4.1
30°-40°	320.2	4.9
40°-50°	322.1	4.9
50°-60°	280.2	4.3
60°-70°	198.7	3.0
70°-80°	105.1	1.6
80°-90°	29.0	0.4
90°-100°	359.1	5.5
100°-110°	944.2	14.4
110°-120°	979.0	15.0
120°-130°	785.3	12.0
130°-140°	616.2	9.4
140°-150°	472.9	7.2
150°-160°	340.6	5.2
160°-170°	208.4	3.2
170°-180°	70.4	1.1
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0°-30°	502.8	7.7
0°-40°	823.0	12.6
0°-60°	1425.3	21.8
0°-90°	1758.1	26.9
90°-120°	2282.3	34.9
90°-150°	4156.6	63.6
90°-180°	4776.0	73.1
0°-180°	6534.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	677	677	677	677	677	
5°	680	701	680	551	680	65
15°	649	695	649	580	649	183
25°	572	648	572	568	572	263
35°	435	578	435	494	435	269
45°	280	476	280	418	280	225
55°	229	352	229	343	229	210
65°	159	212	159	237	159	152
75°	60	101	60	120	60	63
85°	10	26	10	22	10	14
90°	5	19	5	19	5	5
95°	48	217	48	217	48	53
105°	170	1478	170	1478	170	180
115°	302	1904	302	1904	302	298
125°	420	1516	420	1516	420	373
135°	501	1176	501	1176	501	388
145°	581	954	581	954	581	364
155°	657	822	657	822	657	302
165°	708	765	708	765	708	200
175°	737	742	737	742	737	70
180°	737	737	737	737	737	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
2.5°	682.7	682.7	686.5	687.9	687.9	686.0	684.1	686.0	691.7	693.6	692.9
5°	680.2	685.3	692.4	693.6	695.0	694.3	692.9	694.3	700.7	701.9	702.6
7.5°	675.1	684.6	693.6	695.5	697.4	695.5	695.0	696.2	702.6	703.8	703.8
10°	668.7	682.1	692.4	693.6	695.5	693.6	693.6	696.2	702.6	703.8	704.5
12.5°	659.7	678.2	687.9	689.1	691.7	691.0	690.5	692.9	699.4	700.7	700.7
15°	649.4	671.2	680.2	681.5	686.0	684.6	684.6	687.2	694.3	696.2	695.5
17.5°	635.4	662.3	672.5	674.4	677.7	677.0	677.7	680.2	686.5	687.9	688.6
20°	619.3	650.1	662.3	664.2	667.4	667.4	667.4	670.6	677.0	679.6	679.6
22.5°	597.5	637.3	650.1	651.4	655.2	655.2	656.5	661.0	666.7	667.4	667.4
25°	571.9	623.1	634.0	637.9	641.8	643.7	645.6	648.2	650.1	649.4	650.1
27.5°	545.0	605.3	619.3	621.9	627.1	629.0	631.5	632.1	632.8	634.7	633.5
30°	514.9	580.3	601.4	603.9	612.3	613.6	611.0	612.3	615.5	616.7	618.1
32.5°	481.0	543.1	582.8	588.6	596.3	592.5	591.8	593.7	598.9	598.9	600.1
35°	434.9	514.3	565.6	570.7	576.4	571.9	574.5	575.1	578.3	580.3	579.6
37.5°	384.3	489.3	547.6	551.4	555.9	550.2	554.0	555.9	558.5	557.2	557.2
40°	339.4	450.3	526.5	529.1	532.9	528.4	532.2	533.6	534.8	533.6	532.9
42.5°	306.2	407.3	504.0	507.3	504.7	507.9	509.2	511.8	509.8	507.3	507.3
45°	280.5	395.8	479.7	483.5	479.7	484.9	486.8	486.8	481.0	479.7	479.0
47.5°	272.2	372.7	455.3	455.3	453.4	459.8	463.1	458.6	452.9	450.9	450.9
50°	271.6	347.1	422.1	419.5	428.5	436.1	433.0	428.5	424.0	417.0	417.0
52.5°	246.6	315.7	379.1	388.8	402.8	407.3	402.2	397.8	390.0	386.9	384.3
55°	228.6	283.1	340.1	359.3	374.1	379.8	370.2	365.7	354.2	352.3	351.0
57.5°	224.8	235.7	304.3	328.5	346.5	345.9	340.1	331.8	322.1	320.2	319.6
60°	206.3	170.4	265.8	294.6	313.1	311.2	306.2	298.4	289.5	288.2	287.0
62.5°	187.0	123.6	222.2	254.9	281.2	280.5	276.1	264.5	258.1	254.9	252.3
65°	158.8	103.7	158.2	212.0	249.8	251.1	241.4	233.1	226.0	222.2	221.6
67.5°	121.1	84.5	107.0	176.8	219.6	218.4	206.3	202.4	193.4	191.5	187.7
70°	89.7	56.3	74.3	143.4	190.2	187.0	177.4	173.0	164.6	160.2	157.6
72.5°	74.3	45.5	54.4	111.4	160.2	156.2	147.9	142.9	135.8	132.0	129.4
75°	60.2	48.0	41.6	82.6	130.0	127.5	119.8	114.6	108.9	103.7	104.4
77.5°	44.2	44.8	33.3	60.8	103.1	99.3	94.8	88.4	85.9	80.7	80.7
80°	33.3	35.2	25.0	41.6	74.3	74.3	70.5	66.0	61.5	58.9	58.9
82.5°	22.4	22.4	18.5	26.3	50.6	48.7	46.1	44.8	42.3	41.0	41.0
85°	10.2	12.8	11.6	16.0	27.5	28.8	28.8	27.5	26.9	25.6	26.3
87.5°	3.2	5.7	7.1	9.0	14.1	14.7	15.4	15.4	15.4	16.0	16.0
90°	5.0	8.9	12.9	13.8	21.8	32.3	37.5	33.3	25.0	18.8	18.8
92.5°	19.8	53.4	87.0	95.4	134.2	185.8	211.6	185.5	133.2	94.0	90.2
95°	47.5	109.0	170.6	185.9	330.1	522.4	618.6	552.0	418.9	319.0	307.6
97.5°	82.0	136.3	190.6	204.2	444.6	765.2	925.6	883.5	799.3	736.2	714.7
100°	108.8	158.1	207.2	219.6	486.4	842.1	1020.0	1023.1	1029.3	1033.9	1008.2
102.5°	131.5	177.4	223.4	234.8	505.5	866.4	1046.8	1100.4	1207.7	1288.1	1266.1
105°	170.1	209.0	247.9	257.7	519.7	869.1	1043.8	1164.0	1404.4	1584.7	1572.9
107.5°	209.6	245.9	282.2	291.3	522.4	830.5	984.5	1152.2	1487.5	1739.0	1741.8
110°	236.4	269.1	301.8	310.0	518.4	796.2	935.0	1122.5	1497.4	1778.6	1790.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	262.5	293.8	324.9	332.7	518.5	766.2	890.1	1081.9	1465.6	1753.4	1772.3
115°	302.1	330.9	359.7	366.9	523.3	731.8	836.1	1020.9	1390.6	1667.8	1694.0
117.5°	341.2	367.4	393.6	400.0	533.1	710.4	799.0	965.8	1299.4	1549.6	1578.6
120°	364.0	388.6	413.2	419.3	541.0	703.2	784.2	936.7	1241.4	1470.0	1498.3
122.5°	386.2	411.0	435.9	442.1	552.4	699.3	772.9	910.1	1184.6	1390.4	1418.3
125°	420.3	442.9	465.6	471.2	567.7	696.2	760.5	877.1	1110.2	1285.0	1310.7
127.5°	448.0	470.8	493.6	499.4	582.9	694.4	750.1	850.1	1050.4	1200.5	1222.2
130°	462.8	487.4	512.1	518.2	594.2	695.5	746.1	835.2	1013.4	1147.1	1167.1
132.5°	478.2	502.8	527.4	533.6	603.3	696.2	742.7	822.4	982.0	1101.7	1119.5
135°	500.9	523.3	545.7	551.3	613.1	695.5	736.8	803.6	937.2	1037.4	1052.9
137.5°	524.1	546.3	568.5	574.1	627.9	699.8	735.7	792.2	905.1	989.9	1002.5
140°	543.4	563.8	584.3	589.4	637.1	700.6	732.3	781.1	878.7	951.8	963.7
142.5°	558.2	577.1	596.0	600.8	644.6	703.1	732.3	775.2	860.8	925.1	935.2
145°	581.0	597.4	614.0	618.1	654.5	703.1	727.3	762.4	832.5	885.1	892.8
147.5°	603.8	619.8	635.8	639.8	669.0	707.8	727.3	754.9	810.1	851.5	857.9
150°	618.6	633.1	647.6	651.2	676.6	710.4	727.3	750.6	797.2	832.2	837.3
152.5°	633.9	644.9	655.9	658.7	681.6	712.0	727.3	747.2	787.0	816.8	820.7
155°	656.7	664.8	672.9	674.9	692.4	715.7	727.3	743.2	774.8	798.6	801.1
157.5°	673.5	681.4	689.2	691.2	703.3	719.3	727.3	739.6	764.3	782.7	784.5
160°	684.8	690.9	697.2	698.7	708.2	720.9	727.3	737.8	758.9	774.8	775.8
162.5°	696.2	700.8	705.5	706.6	713.5	722.7	727.3	736.2	754.1	767.4	768.4
165°	708.5	712.7	716.9	718.0	721.1	725.2	727.3	733.7	746.4	756.0	757.0
167.5°	720.0	721.9	723.9	724.4	727.0	730.6	732.3	736.5	744.8	751.1	751.6
170°	727.3	729.3	731.3	731.8	732.0	732.2	732.3	736.5	744.8	751.1	751.1
172.5°	731.3	731.7	732.2	732.3	732.3	732.3	732.3	735.5	742.1	747.1	746.7
175°	736.8	736.8	736.8	736.8	735.3	733.2	732.3	734.4	738.5	741.7	741.7
177.5°	736.8	736.8	736.8	736.8	735.6	734.0	733.2	734.9	738.2	740.7	740.2
180°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
2.5°	694.3	692.4	694.3	692.9	693.6	691.7	686.0	684.1	686.0	687.9	687.9
5°	702.6	701.4	702.6	702.6	701.9	700.7	694.3	692.9	694.3	695.0	693.6
7.5°	705.2	703.3	705.2	703.8	703.8	702.6	696.2	695.0	695.5	697.4	695.5
10°	705.2	703.3	705.2	704.5	703.8	702.6	696.2	693.6	693.6	695.5	693.6
12.5°	701.9	700.7	701.9	700.7	700.7	699.4	692.9	690.5	691.0	691.7	689.1
15°	696.9	695.0	696.9	695.5	696.2	694.3	687.2	684.6	684.6	686.0	681.5
17.5°	689.1	686.5	689.1	688.6	687.9	686.5	680.2	677.7	677.0	677.7	674.4
20°	680.2	678.2	680.2	679.6	679.6	677.0	670.6	667.4	667.4	667.4	664.2
22.5°	666.1	664.2	666.1	667.4	667.4	666.7	661.0	656.5	655.2	655.2	651.4
25°	650.1	648.2	650.1	650.1	649.4	650.1	648.2	645.6	643.7	641.8	637.9
27.5°	634.7	633.5	634.7	633.5	634.7	632.8	632.1	631.5	629.0	627.1	621.9
30°	619.3	618.1	619.3	618.1	616.7	615.5	612.3	611.0	613.6	612.3	603.9
32.5°	600.1	598.9	600.1	600.1	598.9	598.9	593.7	591.8	592.5	596.3	588.6
35°	580.3	578.3	580.3	579.6	580.3	578.3	575.1	574.5	571.9	576.4	570.7
37.5°	557.2	555.3	557.2	557.2	557.2	558.5	555.9	554.0	550.2	555.9	551.4
40°	533.6	531.0	533.6	532.9	533.6	534.8	533.6	532.2	528.4	532.9	529.1
42.5°	506.6	506.0	506.6	507.3	507.3	509.8	511.8	509.2	507.9	504.7	507.3
45°	477.8	476.5	477.8	479.0	479.7	481.0	486.8	486.8	484.9	479.7	483.5
47.5°	447.0	443.9	447.0	450.9	450.9	452.9	458.6	463.1	459.8	453.4	455.3
50°	414.4	415.0	414.4	417.0	417.0	424.0	428.5	433.0	436.1	428.5	419.5
52.5°	382.4	381.7	382.4	384.3	386.9	390.0	397.8	402.2	407.3	402.8	388.8
55°	350.3	351.6	350.3	351.0	352.3	354.2	365.7	370.2	379.8	374.1	359.3
57.5°	318.3	316.4	318.3	319.6	320.2	322.1	331.8	340.1	345.9	346.5	328.5
60°	281.2	278.6	281.2	287.0	288.2	289.5	298.4	306.2	311.2	313.1	294.6
62.5°	248.5	244.0	248.5	252.3	254.9	258.1	264.5	276.1	280.5	281.2	254.9
65°	213.9	212.0	213.9	221.6	222.2	226.0	233.1	241.4	251.1	249.8	212.0
67.5°	182.5	182.5	182.5	187.7	191.5	193.4	202.4	206.3	218.4	219.6	176.8
70°	153.8	153.1	153.8	157.6	160.2	164.6	173.0	177.4	187.0	190.2	143.4
72.5°	126.2	125.5	126.2	129.4	132.0	135.8	142.9	147.9	156.2	160.2	111.4
75°	101.8	100.6	101.8	104.4	103.7	108.9	114.6	119.8	127.5	130.0	82.6
77.5°	78.1	78.1	78.1	80.7	80.7	85.9	88.4	94.8	99.3	103.1	60.8
80°	58.3	57.7	58.3	58.9	58.9	61.5	66.0	70.5	74.3	74.3	41.6
82.5°	41.0	39.7	41.0	41.0	41.0	42.3	44.8	46.1	48.7	50.6	26.3
85°	25.6	25.6	25.6	26.3	25.6	26.9	27.5	28.8	28.8	27.5	16.0
87.5°	16.6	16.0	16.6	16.0	16.0	15.4	15.4	15.4	14.7	14.1	9.0
90°	18.8	18.8	18.8	18.8	18.8	25.0	33.3	37.5	32.3	21.8	13.8
92.5°	75.3	60.4	75.3	90.2	94.0	133.2	185.5	211.6	185.8	134.2	95.4
95°	262.3	217.1	262.3	307.6	319.0	418.9	552.0	618.6	522.4	330.1	185.9
97.5°	628.6	542.4	628.6	714.7	736.2	799.3	883.5	925.6	765.2	444.6	204.2
100°	905.6	803.0	905.6	1008.2	1033.9	1029.3	1023.1	1020.0	842.1	486.4	219.6
102.5°	1178.2	1090.3	1178.2	1266.1	1288.1	1207.7	1100.4	1046.8	866.4	505.5	234.8
105°	1525.7	1478.4	1525.7	1572.9	1584.7	1404.4	1164.0	1043.8	869.1	519.7	257.7
107.5°	1753.3	1764.7	1753.3	1741.8	1739.0	1487.5	1152.2	984.5	830.5	522.4	291.3
110°	1840.1	1889.3	1840.1	1790.9	1778.6	1497.4	1122.5	935.0	796.2	518.4	310.0



TEST NUMBER: P935485

CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1847.8	1923.5	1847.8	1772.3	1753.4	1465.6	1081.9	890.1	766.2	518.5	332.7
115°	1798.8	1903.7	1798.8	1694.0	1667.8	1390.6	1020.9	836.1	731.8	523.3	366.9
117.5°	1694.9	1811.2	1694.9	1578.6	1549.6	1299.4	965.8	799.0	710.4	533.1	400.0
120°	1611.2	1724.2	1611.2	1498.3	1470.0	1241.4	936.7	784.2	703.2	541.0	419.3
122.5°	1529.6	1641.1	1529.6	1418.3	1390.4	1184.6	910.1	772.9	699.3	552.4	442.1
125°	1413.3	1516.0	1413.3	1310.7	1285.0	1110.2	877.1	760.5	696.2	567.7	471.2
127.5°	1308.7	1395.4	1308.7	1222.2	1200.5	1050.4	850.1	750.1	694.4	582.9	499.4
130°	1247.1	1327.2	1247.1	1167.1	1147.1	1013.4	835.2	746.1	695.5	594.2	518.2
132.5°	1191.2	1262.8	1191.2	1119.5	1101.7	982.0	822.4	742.7	696.2	603.3	533.6
135°	1114.6	1176.3	1114.6	1052.9	1037.4	937.2	803.6	736.8	695.5	613.1	551.3
137.5°	1053.1	1103.6	1053.1	1002.5	989.9	905.1	792.2	735.7	699.8	627.9	574.1
140°	1010.9	1058.1	1010.9	963.7	951.8	878.7	781.1	732.3	700.6	637.1	589.4
142.5°	975.9	1016.6	975.9	935.2	925.1	860.8	775.2	732.3	703.1	644.6	600.8
145°	923.6	954.3	923.6	892.8	885.1	832.5	762.4	727.3	703.1	654.5	618.1
147.5°	883.3	908.8	883.3	857.9	851.5	810.1	754.9	727.3	707.8	669.0	639.8
150°	858.1	878.7	858.1	837.3	832.2	797.2	750.6	727.3	710.4	676.6	651.2
152.5°	836.3	852.0	836.3	820.7	816.8	787.0	747.2	727.3	712.0	681.6	658.7
155°	811.5	821.8	811.5	801.1	798.6	774.8	743.2	727.3	715.7	692.4	674.9
157.5°	791.8	799.0	791.8	784.5	782.7	764.3	739.6	727.3	719.3	703.3	691.2
160°	780.0	784.2	780.0	775.8	774.8	758.9	737.8	727.3	720.9	708.2	698.7
162.5°	772.4	776.3	772.4	768.4	767.4	754.1	736.2	727.3	722.7	713.5	706.6
165°	761.2	765.4	761.2	757.0	756.0	746.4	733.7	727.3	725.2	721.1	718.0
167.5°	753.3	755.0	753.3	751.6	751.1	744.8	736.5	732.3	730.6	727.0	724.4
170°	751.1	751.1	751.1	751.1	751.1	744.8	736.5	732.3	732.2	732.0	731.8
172.5°	745.2	743.7	745.2	746.7	747.1	742.1	735.5	732.3	732.3	732.3	732.3
175°	741.7	741.7	741.7	741.7	741.7	738.5	734.4	732.3	733.2	735.3	736.8
177.5°	738.5	736.8	738.5	740.2	740.7	738.2	734.9	733.2	734.0	735.6	736.8
180°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8



TEST NUMBER: P935485

CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
2.5°	686.5	682.7	682.7	676.3	673.8	671.8	668.7	659.0	656.5	653.9	657.8
5°	692.4	685.3	680.2	668.7	659.0	655.2	643.0	620.0	604.6	593.1	586.7
7.5°	693.6	684.6	675.1	657.1	634.0	623.8	586.7	544.4	532.9	522.7	516.2
10°	692.4	682.1	668.7	641.8	587.3	569.4	532.2	504.7	497.7	495.7	497.7
12.5°	687.9	678.2	659.7	614.8	538.6	526.5	504.7	488.7	487.4	490.6	507.9
15°	680.2	671.2	649.4	579.0	511.8	502.8	487.4	481.6	488.7	511.1	563.0
17.5°	672.5	662.3	635.4	543.8	491.3	484.9	474.0	485.5	525.2	555.3	572.6
20°	662.3	650.1	619.3	518.2	476.5	470.7	465.7	517.5	547.6	558.5	568.1
22.5°	650.1	637.3	597.5	500.2	461.2	456.7	459.8	535.5	547.6	555.3	563.6
25°	634.0	623.1	571.9	486.1	448.9	443.9	456.0	533.6	540.5	542.4	559.2
27.5°	619.3	605.3	545.0	473.3	434.2	432.3	459.3	525.2	530.3	532.2	550.2
30°	601.4	580.3	514.9	459.8	418.9	418.2	459.8	514.9	513.7	518.8	536.7
32.5°	582.8	543.1	481.0	443.2	404.2	403.5	455.3	499.6	498.3	505.3	518.8
35°	565.6	514.3	434.9	424.0	385.5	386.2	444.5	481.6	482.3	488.7	497.0
37.5°	547.6	489.3	384.3	402.8	367.7	367.7	429.8	465.0	463.7	465.7	477.1
40°	526.5	450.3	339.4	375.3	351.0	349.1	411.8	447.0	442.5	442.0	457.9
42.5°	504.0	407.3	306.2	338.8	331.8	329.2	390.0	425.3	417.0	418.9	439.4
45°	479.7	395.8	280.5	286.3	311.9	310.0	366.3	400.3	394.5	399.7	420.8
47.5°	455.3	372.7	272.2	237.6	290.8	290.1	340.1	376.0	372.7	377.9	400.3
50°	422.1	347.1	271.6	203.7	267.1	269.6	308.8	352.3	352.3	356.8	380.5
52.5°	379.1	315.7	246.6	184.4	239.5	247.2	281.2	331.8	333.0	337.5	358.7
55°	340.1	283.1	228.6	169.7	206.9	223.6	254.2	310.7	313.1	317.6	336.9
57.5°	304.3	235.7	224.8	152.4	176.8	192.8	230.5	290.1	291.4	295.3	313.8
60°	265.8	170.4	206.3	133.9	150.5	162.6	208.8	265.8	270.3	272.8	288.9
62.5°	222.2	123.6	187.0	121.1	137.7	140.3	190.9	242.8	248.5	250.4	260.0
65°	158.2	103.7	158.8	110.2	124.2	124.9	171.6	219.1	224.1	227.4	234.5
67.5°	107.0	84.5	121.1	99.9	114.0	114.6	153.1	191.5	198.5	201.1	205.6
70°	74.3	56.3	89.7	89.0	102.5	103.7	133.2	166.6	173.0	174.9	177.4
72.5°	54.4	45.5	74.3	80.0	90.3	91.6	112.7	138.4	144.8	146.7	147.9
75°	41.6	48.0	60.2	69.8	76.9	77.5	92.3	112.7	117.2	118.5	119.1
77.5°	33.3	44.8	44.2	56.3	62.7	61.5	72.4	87.1	90.9	90.9	90.9
80°	25.0	35.2	33.3	40.4	46.1	44.8	51.9	62.2	63.4	64.7	64.1
82.5°	18.5	22.4	22.4	25.6	30.8	29.5	34.6	40.4	40.4	40.4	41.6
85°	11.6	12.8	10.2	13.5	17.3	16.6	19.2	21.8	22.4	22.4	21.1
87.5°	7.1	5.7	3.2	5.2	7.6	7.6	9.0	9.6	9.0	9.0	9.0
90°	12.9	8.9	5.0	8.9	12.9	13.8	21.8	32.3	37.5	33.3	25.0
92.5°	87.0	53.4	19.8	53.4	87.0	95.4	134.2	185.8	211.6	185.5	133.2
95°	170.6	109.0	47.5	109.0	170.6	185.9	330.1	522.4	618.6	552.0	418.9
97.5°	190.6	136.3	82.0	136.3	190.6	204.2	444.6	765.2	925.6	883.5	799.3
100°	207.2	158.1	108.8	158.1	207.2	219.6	486.4	842.1	1020.0	1023.1	1029.3
102.5°	223.4	177.4	131.5	177.4	223.4	234.8	505.5	866.4	1046.8	1100.4	1207.7
105°	247.9	209.0	170.1	209.0	247.9	257.7	519.7	869.1	1043.8	1164.0	1404.4
107.5°	282.2	245.9	209.6	245.9	282.2	291.3	522.4	830.5	984.5	1152.2	1487.5
110°	301.8	269.1	236.4	269.1	301.8	310.0	518.4	796.2	935.0	1122.5	1497.4



TEST NUMBER: P935485

CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	324.9	293.8	262.5	293.8	324.9	332.7	518.5	766.2	890.1	1081.9	1465.6
115°	359.7	330.9	302.1	330.9	359.7	366.9	523.3	731.8	836.1	1020.9	1390.6
117.5°	393.6	367.4	341.2	367.4	393.6	400.0	533.1	710.4	799.0	965.8	1299.4
120°	413.2	388.6	364.0	388.6	413.2	419.3	541.0	703.2	784.2	936.7	1241.4
122.5°	435.9	411.0	386.2	411.0	435.9	442.1	552.4	699.3	772.9	910.1	1184.6
125°	465.6	442.9	420.3	442.9	465.6	471.2	567.7	696.2	760.5	877.1	1110.2
127.5°	493.6	470.8	448.0	470.8	493.6	499.4	582.9	694.4	750.1	850.1	1050.4
130°	512.1	487.4	462.8	487.4	512.1	518.2	594.2	695.5	746.1	835.2	1013.4
132.5°	527.4	502.8	478.2	502.8	527.4	533.6	603.3	696.2	742.7	822.4	982.0
135°	545.7	523.3	500.9	523.3	545.7	551.3	613.1	695.5	736.8	803.6	937.2
137.5°	568.5	546.3	524.1	546.3	568.5	574.1	627.9	699.8	735.7	792.2	905.1
140°	584.3	563.8	543.4	563.8	584.3	589.4	637.1	700.6	732.3	781.1	878.7
142.5°	596.0	577.1	558.2	577.1	596.0	600.8	644.6	703.1	732.3	775.2	860.8
145°	614.0	597.4	581.0	597.4	614.0	618.1	654.5	703.1	727.3	762.4	832.5
147.5°	635.8	619.8	603.8	619.8	635.8	639.8	669.0	707.8	727.3	754.9	810.1
150°	647.6	633.1	618.6	633.1	647.6	651.2	676.6	710.4	727.3	750.6	797.2
152.5°	655.9	644.9	633.9	644.9	655.9	658.7	681.6	712.0	727.3	747.2	787.0
155°	672.9	664.8	656.7	664.8	672.9	674.9	692.4	715.7	727.3	743.2	774.8
157.5°	689.2	681.4	673.5	681.4	689.2	691.2	703.3	719.3	727.3	739.6	764.3
160°	697.2	690.9	684.8	690.9	697.2	698.7	708.2	720.9	727.3	737.8	758.9
162.5°	705.5	700.8	696.2	700.8	705.5	706.6	713.5	722.7	727.3	736.2	754.1
165°	716.9	712.7	708.5	712.7	716.9	718.0	721.1	725.2	727.3	733.7	746.4
167.5°	723.9	721.9	720.0	721.9	723.9	724.4	727.0	730.6	732.3	736.5	744.8
170°	731.3	729.3	727.3	729.3	731.3	731.8	732.0	732.2	732.3	736.5	744.8
172.5°	732.2	731.7	731.3	731.7	732.2	732.3	732.3	732.3	732.3	735.5	742.1
175°	736.8	736.8	736.8	736.8	736.8	736.8	735.3	733.2	732.3	734.4	738.5
177.5°	736.8	736.8	736.8	736.8	736.8	736.8	735.6	734.0	733.2	734.9	738.2
180°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8



TEST NUMBER: P935485

CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
2.5°	653.3	651.4	653.9	646.9	653.9	651.4	653.3	657.8	653.9	656.5	659.0
5°	573.2	570.0	559.8	551.4	559.8	570.0	573.2	586.7	593.1	604.6	620.0
7.5°	512.4	509.8	507.3	502.1	507.3	509.8	512.4	516.2	522.7	532.9	544.4
10°	498.9	499.6	503.4	502.8	503.4	499.6	498.9	497.7	495.7	497.7	504.7
12.5°	533.6	539.3	560.4	559.2	560.4	539.3	533.6	507.9	490.6	487.4	488.7
15°	573.2	575.1	579.6	580.3	579.6	575.1	573.2	563.0	511.1	488.7	481.6
17.5°	577.1	577.7	580.9	580.9	580.9	577.7	577.1	572.6	555.3	525.2	485.5
20°	573.9	575.1	581.6	582.8	581.6	575.1	573.9	568.1	558.5	547.6	517.5
22.5°	572.6	575.1	580.3	579.6	580.3	575.1	572.6	563.6	555.3	547.6	535.5
25°	566.2	566.2	566.8	567.5	566.8	566.2	566.2	559.2	542.4	540.5	533.6
27.5°	552.8	554.0	557.8	557.2	557.8	554.0	552.8	550.2	532.2	530.3	525.2
30°	540.5	539.3	536.0	533.6	536.0	539.3	540.5	536.7	518.8	513.7	514.9
32.5°	520.1	516.8	513.7	511.8	513.7	516.8	520.1	518.8	505.3	498.3	499.6
35°	495.7	496.4	495.7	493.8	495.7	496.4	495.7	497.0	488.7	482.3	481.6
37.5°	478.5	479.7	479.0	476.5	479.0	479.7	478.5	477.1	465.7	463.7	465.0
40°	460.5	461.2	460.5	458.6	460.5	461.2	460.5	457.9	442.0	442.5	447.0
42.5°	443.2	442.5	440.6	439.4	440.6	442.5	443.2	439.4	418.9	417.0	425.3
45°	423.4	424.0	420.1	418.2	420.1	424.0	423.4	420.8	399.7	394.5	400.3
47.5°	403.5	403.5	400.3	398.3	400.3	403.5	403.5	400.3	377.9	372.7	376.0
50°	382.4	381.7	377.2	376.6	377.2	381.7	382.4	380.5	356.8	352.3	352.3
52.5°	358.0	358.0	358.7	359.9	358.7	358.0	358.0	358.7	337.5	333.0	331.8
55°	336.9	337.5	342.0	343.3	342.0	337.5	336.9	336.9	317.6	313.1	310.7
57.5°	315.2	315.2	318.3	318.3	318.3	315.2	315.2	313.8	295.3	291.4	290.1
60°	290.1	291.4	293.9	293.4	293.9	291.4	290.1	288.9	272.8	270.3	265.8
62.5°	263.9	265.2	265.8	264.5	265.8	265.2	263.9	260.0	250.4	248.5	242.8
65°	236.4	237.6	238.3	236.9	238.3	237.6	236.4	234.5	227.4	224.1	219.1
67.5°	208.2	207.5	206.9	209.4	206.9	207.5	208.2	205.6	201.1	198.5	191.5
70°	179.3	179.3	178.7	180.0	178.7	179.3	179.3	177.4	174.9	173.0	166.6
72.5°	148.6	147.9	150.5	148.6	150.5	147.9	148.6	147.9	146.7	144.8	138.4
75°	118.5	119.8	118.5	120.4	118.5	119.8	118.5	119.1	118.5	117.2	112.7
77.5°	90.3	91.6	90.3	90.3	90.3	91.6	90.3	90.9	90.9	90.9	87.1
80°	64.1	63.4	63.4	62.7	63.4	63.4	64.1	64.1	64.7	63.4	62.2
82.5°	41.0	40.4	40.4	41.6	40.4	40.4	41.0	41.6	40.4	40.4	40.4
85°	22.4	23.0	21.8	21.8	21.8	23.0	22.4	21.1	22.4	22.4	21.8
87.5°	8.3	7.6	7.6	7.6	7.6	7.6	8.3	9.0	9.0	9.0	9.6
90°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	25.0	33.3	37.5	32.3
92.5°	94.0	90.2	75.3	60.4	75.3	90.2	94.0	133.2	185.5	211.6	185.8
95°	319.0	307.6	262.3	217.1	262.3	307.6	319.0	418.9	552.0	618.6	522.4
97.5°	736.2	714.7	628.6	542.4	628.6	714.7	736.2	799.3	883.5	925.6	765.2
100°	1033.9	1008.2	905.6	803.0	905.6	1008.2	1033.9	1029.3	1023.1	1020.0	842.1
102.5°	1288.1	1266.1	1178.2	1090.3	1178.2	1266.1	1288.1	1207.7	1100.4	1046.8	866.4
105°	1584.7	1572.9	1525.7	1478.4	1525.7	1572.9	1584.7	1404.4	1164.0	1043.8	869.1
107.5°	1739.0	1741.8	1753.3	1764.7	1753.3	1741.8	1739.0	1487.5	1152.2	984.5	830.5
110°	1778.6	1790.9	1840.1	1889.3	1840.1	1790.9	1778.6	1497.4	1122.5	935.0	796.2



TEST NUMBER: P935485

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1753.4	1772.3	1847.8	1923.5	1847.8	1772.3	1753.4	1465.6	1081.9	890.1	766.2
115°	1667.8	1694.0	1798.8	1903.7	1798.8	1694.0	1667.8	1390.6	1020.9	836.1	731.8
117.5°	1549.6	1578.6	1694.9	1811.2	1694.9	1578.6	1549.6	1299.4	965.8	799.0	710.4
120°	1470.0	1498.3	1611.2	1724.2	1611.2	1498.3	1470.0	1241.4	936.7	784.2	703.2
122.5°	1390.4	1418.3	1529.6	1641.1	1529.6	1418.3	1390.4	1184.6	910.1	772.9	699.3
125°	1285.0	1310.7	1413.3	1516.0	1413.3	1310.7	1285.0	1110.2	877.1	760.5	696.2
127.5°	1200.5	1222.2	1308.7	1395.4	1308.7	1222.2	1200.5	1050.4	850.1	750.1	694.4
130°	1147.1	1167.1	1247.1	1327.2	1247.1	1167.1	1147.1	1013.4	835.2	746.1	695.5
132.5°	1101.7	1119.5	1191.2	1262.8	1191.2	1119.5	1101.7	982.0	822.4	742.7	696.2
135°	1037.4	1052.9	1114.6	1176.3	1114.6	1052.9	1037.4	937.2	803.6	736.8	695.5
137.5°	989.9	1002.5	1053.1	1103.6	1053.1	1002.5	989.9	905.1	792.2	735.7	699.8
140°	951.8	963.7	1010.9	1058.1	1010.9	963.7	951.8	878.7	781.1	732.3	700.6
142.5°	925.1	935.2	975.9	1016.6	975.9	935.2	925.1	860.8	775.2	732.3	703.1
145°	885.1	892.8	923.6	954.3	923.6	892.8	885.1	832.5	762.4	727.3	703.1
147.5°	851.5	857.9	883.3	908.8	883.3	857.9	851.5	810.1	754.9	727.3	707.8
150°	832.2	837.3	858.1	878.7	858.1	837.3	832.2	797.2	750.6	727.3	710.4
152.5°	816.8	820.7	836.3	852.0	836.3	820.7	816.8	787.0	747.2	727.3	712.0
155°	798.6	801.1	811.5	821.8	811.5	801.1	798.6	774.8	743.2	727.3	715.7
157.5°	782.7	784.5	791.8	799.0	791.8	784.5	782.7	764.3	739.6	727.3	719.3
160°	774.8	775.8	780.0	784.2	780.0	775.8	774.8	758.9	737.8	727.3	720.9
162.5°	767.4	768.4	772.4	776.3	772.4	768.4	767.4	754.1	736.2	727.3	722.7
165°	756.0	757.0	761.2	765.4	761.2	757.0	756.0	746.4	733.7	727.3	725.2
167.5°	751.1	751.6	753.3	755.0	753.3	751.6	751.1	744.8	736.5	732.3	730.6
170°	751.1	751.1	751.1	751.1	751.1	751.1	751.1	744.8	736.5	732.3	732.2
172.5°	747.1	746.7	745.2	743.7	745.2	746.7	747.1	742.1	735.5	732.3	732.3
175°	741.7	741.7	741.7	741.7	741.7	741.7	741.7	738.5	734.4	732.3	733.2
177.5°	740.7	740.2	738.5	736.8	738.5	740.2	740.7	738.2	734.9	733.2	734.0
180°	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8	736.8



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CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	677.0	677.0	677.0	677.0	677.0
2.5°	668.7	671.8	673.8	676.3	682.7
5°	643.0	655.2	659.0	668.7	680.2
7.5°	586.7	623.8	634.0	657.1	675.1
10°	532.2	569.4	587.3	641.8	668.7
12.5°	504.7	526.5	538.6	614.8	659.7
15°	487.4	502.8	511.8	579.0	649.4
17.5°	474.0	484.9	491.3	543.8	635.4
20°	465.7	470.7	476.5	518.2	619.3
22.5°	459.8	456.7	461.2	500.2	597.5
25°	456.0	443.9	448.9	486.1	571.9
27.5°	459.3	432.3	434.2	473.3	545.0
30°	459.8	418.2	418.9	459.8	514.9
32.5°	455.3	403.5	404.2	443.2	481.0
35°	444.5	386.2	385.5	424.0	434.9
37.5°	429.8	367.7	367.7	402.8	384.3
40°	411.8	349.1	351.0	375.3	339.4
42.5°	390.0	329.2	331.8	338.8	306.2
45°	366.3	310.0	311.9	286.3	280.5
47.5°	340.1	290.1	290.8	237.6	272.2
50°	308.8	269.6	267.1	203.7	271.6
52.5°	281.2	247.2	239.5	184.4	246.6
55°	254.2	223.6	206.9	169.7	228.6
57.5°	230.5	192.8	176.8	152.4	224.8
60°	208.8	162.6	150.5	133.9	206.3
62.5°	190.9	140.3	137.7	121.1	187.0
65°	171.6	124.9	124.2	110.2	158.8
67.5°	153.1	114.6	114.0	99.9	121.1
70°	133.2	103.7	102.5	89.0	89.7
72.5°	112.7	91.6	90.3	80.0	74.3
75°	92.3	77.5	76.9	69.8	60.2
77.5°	72.4	61.5	62.7	56.3	44.2
80°	51.9	44.8	46.1	40.4	33.3
82.5°	34.6	29.5	30.8	25.6	22.4
85°	19.2	16.6	17.3	13.5	10.2
87.5°	9.0	7.6	7.6	5.2	3.2
90°	21.8	13.8	12.9	8.9	5.0
92.5°	134.2	95.4	87.0	53.4	19.8
95°	330.1	185.9	170.6	109.0	47.5
97.5°	444.6	204.2	190.6	136.3	82.0
100°	486.4	219.6	207.2	158.1	108.8
102.5°	505.5	234.8	223.4	177.4	131.5
105°	519.7	257.7	247.9	209.0	170.1
107.5°	522.4	291.3	282.2	245.9	209.6
110°	518.4	310.0	301.8	269.1	236.4



TEST NUMBER: P935485

CATALOG NUMBER: SQ4-FA-125U-050D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	518.5	332.7	324.9	293.8	262.5
115°	523.3	366.9	359.7	330.9	302.1
117.5°	533.1	400.0	393.6	367.4	341.2
120°	541.0	419.3	413.2	388.6	364.0
122.5°	552.4	442.1	435.9	411.0	386.2
125°	567.7	471.2	465.6	442.9	420.3
127.5°	582.9	499.4	493.6	470.8	448.0
130°	594.2	518.2	512.1	487.4	462.8
132.5°	603.3	533.6	527.4	502.8	478.2
135°	613.1	551.3	545.7	523.3	500.9
137.5°	627.9	574.1	568.5	546.3	524.1
140°	637.1	589.4	584.3	563.8	543.4
142.5°	644.6	600.8	596.0	577.1	558.2
145°	654.5	618.1	614.0	597.4	581.0
147.5°	669.0	639.8	635.8	619.8	603.8
150°	676.6	651.2	647.6	633.1	618.6
152.5°	681.6	658.7	655.9	644.9	633.9
155°	692.4	674.9	672.9	664.8	656.7
157.5°	703.3	691.2	689.2	681.4	673.5
160°	708.2	698.7	697.2	690.9	684.8
162.5°	713.5	706.6	705.5	700.8	696.2
165°	721.1	718.0	716.9	712.7	708.5
167.5°	727.0	724.4	723.9	721.9	720.0
170°	732.0	731.8	731.3	729.3	727.3
172.5°	732.3	732.3	732.2	731.7	731.3
175°	735.3	736.8	736.8	736.8	736.8
177.5°	735.6	736.8	736.8	736.8	736.8
180°	736.8	736.8	736.8	736.8	736.8



TEST NUMBER: P935485
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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	8.52	9.21	9.66	10.33	11.90	11.32	12.01	12.45	13.13	14.70
	3H	8.99	9.60	10.13	10.73	12.32	12.64	13.26	13.78	14.39	15.97
	4H	9.17	9.75	10.32	10.89	12.47	13.07	13.65	14.22	14.79	16.38
	6H	9.28	9.82	10.44	10.95	12.55	13.34	13.88	14.50	15.01	16.61
	8H	9.28	9.79	10.44	10.94	12.53	13.40	13.91	14.57	15.07	16.66
	12H	9.24	9.72	10.41	10.87	12.48	13.43	13.92	14.60	15.06	16.68
4H	2H	9.53	10.11	10.68	11.24	12.83	11.71	12.29	12.87	13.43	15.01
	3H	10.54	11.02	11.70	12.18	13.78	13.19	13.67	14.35	14.83	16.43
	4H	10.80	11.25	11.97	12.40	14.02	13.70	14.15	14.87	15.30	16.92
	6H	10.92	11.30	12.09	12.47	14.08	14.05	14.43	15.22	15.60	17.21
	8H	10.92	11.28	12.09	12.44	14.07	14.15	14.50	15.32	15.67	17.29
	12H	10.88	11.20	12.07	12.38	14.01	14.19	14.51	15.38	15.69	17.32
8H	4H	11.24	11.60	12.41	12.76	14.38	13.81	14.17	14.98	15.33	16.96
	6H	11.49	11.79	12.68	12.99	14.61	14.23	14.53	15.42	15.73	17.36
	8H	11.53	11.79	12.73	12.97	14.62	14.38	14.64	15.57	15.82	17.46
	12H	11.51	11.74	12.71	12.91	14.59	14.46	14.69	15.66	15.87	17.54
12H	4H	11.24	11.56	12.42	12.73	14.36	13.77	14.09	14.96	15.27	16.90
	6H	11.55	11.81	12.75	12.99	14.63	14.23	14.49	15.43	15.67	17.31
	8H	11.61	11.83	12.81	13.01	14.69	14.38	14.60	15.58	15.78	17.46