

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: P935431

Luminaire Tested: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935431
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-92765-1D-UNV-STD-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

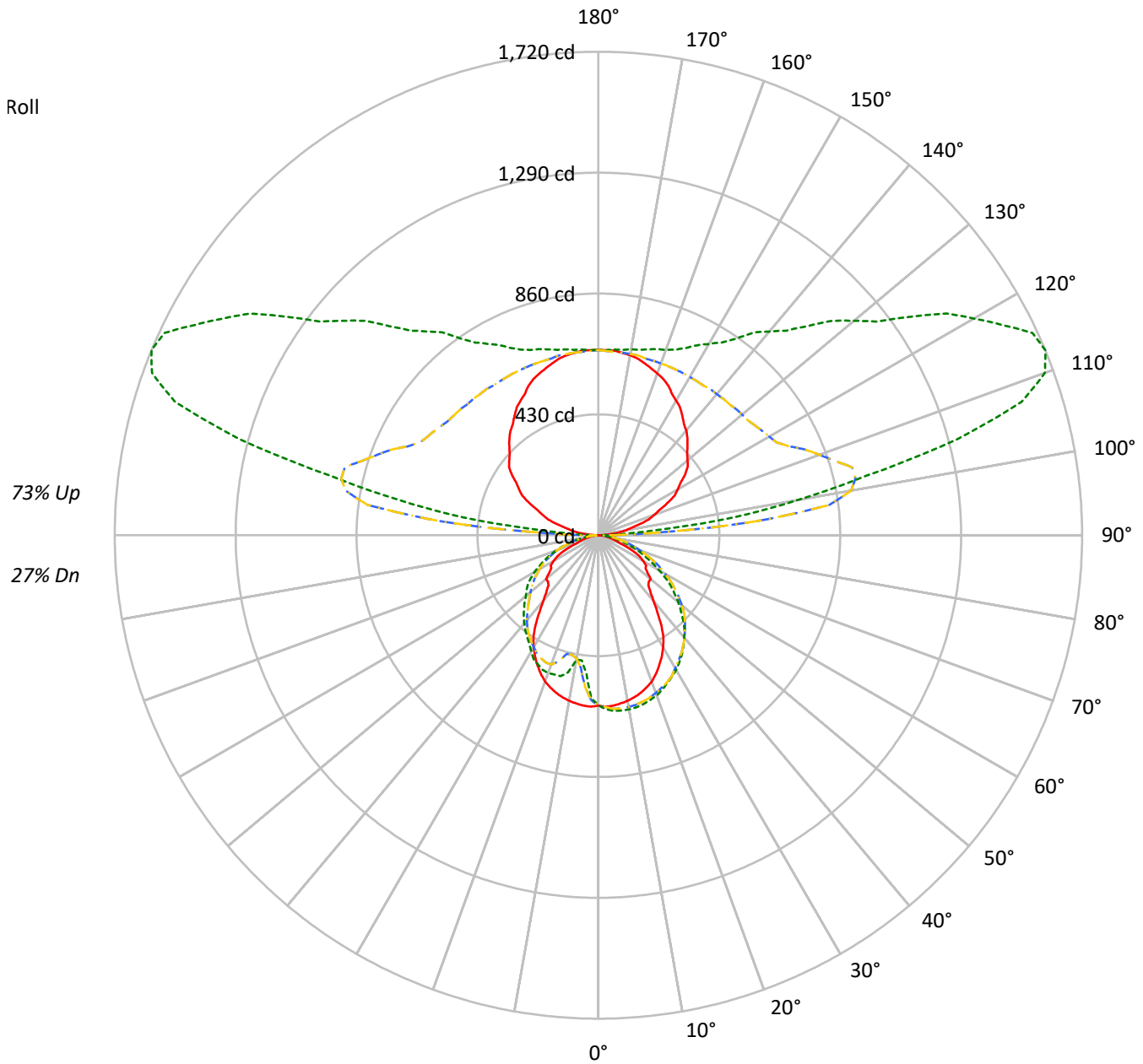
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5844.0 lumens
Efficiency: N/A
Efficacy: 122.8 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-92765-1D-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				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	50	30	10
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°	5619	5619	5619	5619
5°	5654	5672	5654	4459
10°	5611	5587	5611	3994
15°	5542	5465	5542	4564
20°	5420	5322	5420	4574
25°	5177	5113	5177	4476
30°	4864	4940	4864	4264
35°	4331	4720	4331	4030
40°	3602	4462	3602	3854
45°	3212	4159	3212	3649
50°	3405	3798	3405	3446
55°	3194	3409	3194	3329
60°	3282	2894	3282	3049
65°	2959	2393	2959	2675
70°	2036	1907	2036	2243
75°	1764	1409	1764	1688
80°	1395	933	1395	1014
85°	754	493	754	420

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4932 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	0.9
10°-20°	155.2	2.7
20°-30°	239.9	4.1
30°-40°	286.4	4.9
40°-50°	288.0	4.9
50°-60°	250.6	4.3
60°-70°	177.7	3.0
70°-80°	94.0	1.6
80°-90°	25.9	0.4
90°-100°	321.2	5.5
100°-110°	844.4	14.4
110°-120°	875.6	15.0
120°-130°	702.3	12.0
130°-140°	551.1	9.4
140°-150°	423.0	7.2
150°-160°	304.6	5.2
160°-170°	186.4	3.2
170°-180°	63.0	1.1
0°-30°	449.7	7.7
0°-40°	736.1	12.6
0°-60°	1274.8	21.8
0°-90°	1572.4	26.9
90°-120°	2041.2	34.9
90°-150°	3717.6	63.6
90°-180°	4272.0	73.1
0°-180°	5844.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	606	606	606	606	606	
5°	608	627	608	493	608	58
15°	581	622	581	519	581	163
25°	512	580	512	508	512	235
35°	389	517	389	442	389	241
45°	251	426	251	374	251	201
55°	204	314	204	307	204	188
65°	142	190	142	212	142	136
75°	54	90	54	108	54	57
85°	9	23	9	20	9	12
90°	4	17	4	17	4	4
95°	42	194	42	194	42	47
105°	152	1322	152	1322	152	161
115°	270	1703	270	1703	270	267
125°	376	1356	376	1356	376	334
135°	448	1052	448	1052	448	347
145°	520	854	520	854	520	326
155°	587	735	587	735	587	270
165°	634	685	634	685	634	179
175°	659	663	659	663	659	63
180°	659	659	659	659	659	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
2.5°	610.6	610.6	614.0	615.2	615.2	613.5	611.8	613.5	618.6	620.4	619.8
5°	608.3	612.9	619.2	620.4	621.5	621.0	619.8	621.0	626.7	627.8	628.4
7.5°	603.8	612.3	620.4	622.1	623.8	622.1	621.5	622.7	628.4	629.5	629.5
10°	598.1	610.0	619.2	620.4	622.1	620.4	620.4	622.7	628.4	629.5	630.1
12.5°	590.0	606.6	615.2	616.3	618.6	618.0	617.5	619.8	625.6	626.7	626.7
15°	580.8	600.3	608.3	609.5	613.5	612.3	612.3	614.6	621.0	622.7	622.1
17.5°	568.3	592.3	601.5	603.2	606.1	605.5	606.1	608.3	614.0	615.2	615.8
20°	553.9	581.4	592.3	594.0	596.9	596.9	596.9	599.8	605.5	607.8	607.8
22.5°	534.4	570.0	581.4	582.6	586.0	586.0	587.1	591.1	596.3	596.9	596.9
25°	511.5	557.3	567.1	570.6	574.0	575.7	577.4	579.7	581.4	580.8	581.4
27.5°	487.5	541.3	553.9	556.2	560.8	562.5	564.8	565.3	565.9	567.7	566.5
30°	460.5	519.0	537.8	540.2	547.6	548.8	546.5	547.6	550.5	551.6	552.8
32.5°	430.2	485.7	521.3	526.4	533.3	529.9	529.3	531.0	535.6	535.6	536.7
35°	389.0	459.9	505.8	510.4	515.6	511.5	513.8	514.4	517.3	519.0	518.4
37.5°	343.7	437.7	489.8	493.2	497.2	492.1	495.5	497.2	499.5	498.4	498.4
40°	303.6	402.7	470.9	473.2	476.6	472.6	476.0	477.2	478.3	477.2	476.6
42.5°	273.8	364.3	450.8	453.7	451.4	454.2	455.4	457.7	455.9	453.7	453.7
45°	250.9	354.0	429.0	432.4	429.0	433.6	435.3	435.3	430.2	429.0	428.4
47.5°	243.4	333.4	407.2	407.2	405.5	411.3	414.2	410.2	405.0	403.2	403.2
50°	242.9	310.5	377.5	375.2	383.2	390.1	387.3	383.2	379.2	372.9	372.9
52.5°	220.5	282.4	339.1	347.7	360.3	364.3	359.8	355.7	348.8	346.0	343.7
55°	204.5	253.2	304.2	321.3	334.6	339.7	331.1	327.0	316.8	315.1	313.9
57.5°	201.1	210.8	272.1	293.8	309.9	309.4	304.2	296.7	288.1	286.4	285.9
60°	184.5	152.4	237.7	263.5	280.1	278.4	273.8	266.9	258.9	257.8	256.7
62.5°	167.2	110.5	198.8	228.0	251.5	250.9	246.9	236.6	230.9	228.0	225.7
65°	142.0	92.8	141.5	189.6	223.4	224.6	215.9	208.5	202.2	198.8	198.2
67.5°	108.3	75.6	95.7	158.1	196.4	195.3	184.5	181.0	173.0	171.3	167.8
70°	80.2	50.4	66.5	128.3	170.1	167.2	158.7	154.7	147.3	143.2	140.9
72.5°	66.5	40.7	48.7	99.7	143.2	139.7	132.3	127.8	121.5	118.0	115.7
75°	53.8	43.0	37.2	73.9	116.2	114.0	107.1	102.5	97.4	92.8	93.4
77.5°	39.5	40.1	29.8	54.4	92.2	88.8	84.8	79.1	76.8	72.2	72.2
80°	29.8	31.5	22.4	37.2	66.5	66.5	63.0	59.0	55.0	52.7	52.7
82.5°	20.1	20.1	16.6	23.5	45.3	43.6	41.3	40.1	37.8	36.6	36.6
85°	9.1	11.4	10.3	14.3	24.6	25.8	25.8	24.6	24.1	22.9	23.5
87.5°	2.9	5.1	6.3	8.0	12.6	13.2	13.8	13.8	13.8	14.3	14.3
90°	4.4	7.9	11.5	12.4	19.5	28.9	33.6	29.8	22.4	16.8	16.8
92.5°	17.7	47.7	77.8	85.3	120.0	166.2	189.3	165.9	119.2	84.0	80.7
95°	42.5	97.5	152.5	166.3	295.3	467.2	553.2	493.7	374.6	285.3	275.1
97.5°	73.4	121.9	170.5	182.6	397.7	684.4	827.8	790.2	714.9	658.4	639.2
100°	97.3	141.4	185.3	196.4	435.0	753.2	912.3	915.0	920.6	924.7	901.7
102.5°	117.6	158.7	199.8	210.0	452.1	774.9	936.2	984.2	1080.1	1152.0	1132.4
105°	152.1	187.0	221.7	230.4	464.8	777.3	933.6	1041.1	1256.1	1417.3	1406.7
107.5°	187.5	219.9	252.4	260.5	467.2	742.7	880.5	1030.5	1330.4	1555.3	1557.8
110°	211.4	240.7	269.9	277.2	463.6	712.1	836.3	1003.9	1339.3	1590.7	1601.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	234.8	262.7	290.6	297.6	463.7	685.3	796.0	967.6	1310.8	1568.2	1585.1
115°	270.2	296.0	321.8	328.2	468.1	654.5	747.8	913.1	1243.7	1491.6	1515.1
117.5°	305.2	328.6	352.0	357.8	476.8	635.4	714.6	863.8	1162.1	1385.9	1411.9
120°	325.5	347.5	369.6	375.0	483.9	628.9	701.4	837.7	1110.3	1314.8	1340.0
122.5°	345.4	367.6	389.8	395.4	494.0	625.5	691.2	814.0	1059.5	1243.5	1268.5
125°	375.9	396.1	416.4	421.4	507.7	622.7	680.1	784.4	992.9	1149.3	1172.3
127.5°	400.7	421.1	441.5	446.6	521.4	621.0	670.8	760.3	939.5	1073.7	1093.1
130°	413.9	435.9	458.0	463.4	531.4	622.1	667.3	747.0	906.4	1026.0	1043.8
132.5°	427.7	449.7	471.7	477.2	539.6	622.7	664.3	735.6	878.3	985.3	1001.3
135°	448.0	468.1	488.0	493.1	548.4	622.1	659.0	718.7	838.2	927.8	941.7
137.5°	468.7	488.6	508.5	513.4	561.6	625.9	658.0	708.5	809.5	885.3	896.6
140°	486.0	504.3	522.6	527.2	569.8	626.6	654.9	698.6	785.9	851.3	861.9
142.5°	499.2	516.1	533.1	537.3	576.5	628.8	654.9	693.3	769.9	827.4	836.4
145°	519.7	534.3	549.1	552.8	585.3	628.8	650.5	681.9	744.5	791.6	798.5
147.5°	540.0	554.3	568.7	572.3	598.3	633.1	650.5	675.2	724.6	761.5	767.3
150°	553.2	566.2	579.2	582.4	605.1	635.4	650.5	671.3	713.0	744.3	748.9
152.5°	567.0	576.8	586.6	589.1	609.6	636.8	650.5	668.3	703.9	730.5	734.0
155°	587.3	594.6	601.8	603.6	619.2	640.1	650.5	664.7	693.0	714.2	716.5
157.5°	602.3	609.4	616.4	618.2	629.0	643.3	650.5	661.5	683.6	700.0	701.7
160°	612.5	618.0	623.5	624.9	633.4	644.8	650.5	659.9	678.8	693.0	693.9
162.5°	622.7	626.8	630.9	632.0	638.1	646.4	650.5	658.4	674.4	686.4	687.2
165°	633.7	637.4	641.2	642.1	645.0	648.6	650.5	656.2	667.6	676.1	677.1
167.5°	643.9	645.6	647.4	647.9	650.2	653.4	654.9	658.7	666.1	671.8	672.2
170°	650.5	652.3	654.1	654.5	654.7	654.9	654.9	658.7	666.1	671.8	671.8
172.5°	654.1	654.4	654.9	654.9	654.9	654.9	654.9	657.8	663.7	668.2	667.8
175°	659.0	659.0	659.0	659.0	657.6	655.8	654.9	656.8	660.5	663.3	663.3
177.5°	659.0	659.0	659.0	659.0	657.9	656.5	655.8	657.3	660.2	662.5	662.0
180°	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
2.5°	621.0	619.2	621.0	619.8	620.4	618.6	613.5	611.8	613.5	615.2	615.2
5°	628.4	627.3	628.4	628.4	627.8	626.7	621.0	619.8	621.0	621.5	620.4
7.5°	630.7	629.0	630.7	629.5	629.5	628.4	622.7	621.5	622.1	623.8	622.1
10°	630.7	629.0	630.7	630.1	629.5	628.4	622.7	620.4	620.4	622.1	620.4
12.5°	627.8	626.7	627.8	626.7	626.7	625.6	619.8	617.5	618.0	618.6	616.3
15°	623.3	621.5	623.3	622.1	622.7	621.0	614.6	612.3	612.3	613.5	609.5
17.5°	616.3	614.0	616.3	615.8	615.2	614.0	608.3	606.1	605.5	606.1	603.2
20°	608.3	606.6	608.3	607.8	607.8	605.5	599.8	596.9	596.9	596.9	594.0
22.5°	595.8	594.0	595.8	596.9	596.9	596.3	591.1	587.1	586.0	586.0	582.6
25°	581.4	579.7	581.4	581.4	580.8	581.4	579.7	577.4	575.7	574.0	570.6
27.5°	567.7	566.5	567.7	566.5	567.7	565.9	565.3	564.8	562.5	560.8	556.2
30°	553.9	552.8	553.9	552.8	551.6	550.5	547.6	546.5	548.8	547.6	540.2
32.5°	536.7	535.6	536.7	536.7	535.6	535.6	531.0	529.3	529.9	533.3	526.4
35°	519.0	517.3	519.0	518.4	519.0	517.3	514.4	513.8	511.5	515.6	510.4
37.5°	498.4	496.7	498.4	498.4	498.4	499.5	497.2	495.5	492.1	497.2	493.2
40°	477.2	474.9	477.2	476.6	477.2	478.3	477.2	476.0	472.6	476.6	473.2
42.5°	453.1	452.5	453.1	453.7	453.7	455.9	457.7	455.4	454.2	451.4	453.7
45°	427.3	426.2	427.3	428.4	429.0	430.2	435.3	435.3	433.6	429.0	432.4
47.5°	399.8	397.0	399.8	403.2	403.2	405.0	410.2	414.2	411.3	405.5	407.2
50°	370.6	371.2	370.6	372.9	372.9	379.2	383.2	387.3	390.1	383.2	375.2
52.5°	342.0	341.4	342.0	343.7	346.0	348.8	355.7	359.8	364.3	360.3	347.7
55°	313.3	314.5	313.3	313.9	315.1	316.8	327.0	331.1	339.7	334.6	321.3
57.5°	284.7	283.0	284.7	285.9	286.4	288.1	296.7	304.2	309.4	309.9	293.8
60°	251.5	249.1	251.5	256.7	257.8	258.9	266.9	273.8	278.4	280.1	263.5
62.5°	222.2	218.2	222.2	225.7	228.0	230.9	236.6	246.9	250.9	251.5	228.0
65°	191.3	189.6	191.3	198.2	198.8	202.2	208.5	215.9	224.6	223.4	189.6
67.5°	163.2	163.2	163.2	167.8	171.3	173.0	181.0	184.5	195.3	196.4	158.1
70°	137.5	136.9	137.5	140.9	143.2	147.3	154.7	158.7	167.2	170.1	128.3
72.5°	112.8	112.2	112.8	115.7	118.0	121.5	127.8	132.3	139.7	143.2	99.7
75°	91.1	89.9	91.1	93.4	92.8	97.4	102.5	107.1	114.0	116.2	73.9
77.5°	69.9	69.9	69.9	72.2	72.2	76.8	79.1	84.8	88.8	92.2	54.4
80°	52.1	51.6	52.1	52.7	52.7	55.0	59.0	63.0	66.5	66.5	37.2
82.5°	36.6	35.5	36.6	36.6	36.6	37.8	40.1	41.3	43.6	45.3	23.5
85°	22.9	22.9	22.9	23.5	22.9	24.1	24.6	25.8	25.8	24.6	14.3
87.5°	14.9	14.3	14.9	14.3	14.3	13.8	13.8	13.8	13.2	12.6	8.0
90°	16.8	16.8	16.8	16.8	16.8	22.4	29.8	33.6	28.9	19.5	12.4
92.5°	67.3	54.0	67.3	80.7	84.0	119.2	165.9	189.3	166.2	120.0	85.3
95°	234.6	194.1	234.6	275.1	285.3	374.6	493.7	553.2	467.2	295.3	166.3
97.5°	562.2	485.1	562.2	639.2	658.4	714.9	790.2	827.8	684.4	397.7	182.6
100°	810.0	718.2	810.0	901.7	924.7	920.6	915.0	912.3	753.2	435.0	196.4
102.5°	1053.7	975.2	1053.7	1132.4	1152.0	1080.1	984.2	936.2	774.9	452.1	210.0
105°	1364.6	1322.3	1364.6	1406.7	1417.3	1256.1	1041.1	933.6	777.3	464.8	230.4
107.5°	1568.1	1578.3	1568.1	1557.8	1555.3	1330.4	1030.5	880.5	742.7	467.2	260.5
110°	1645.7	1689.7	1645.7	1601.7	1590.7	1339.3	1003.9	836.3	712.1	463.6	277.2



TEST NUMBER: P935431

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1652.7	1720.3	1652.7	1585.1	1568.2	1310.8	967.6	796.0	685.3	463.7	297.6
115°	1608.8	1702.6	1608.8	1515.1	1491.6	1243.7	913.1	747.8	654.5	468.1	328.2
117.5°	1515.9	1619.9	1515.9	1411.9	1385.9	1162.1	863.8	714.6	635.4	476.8	357.8
120°	1441.0	1542.0	1441.0	1340.0	1314.8	1110.3	837.7	701.4	628.9	483.9	375.0
122.5°	1368.1	1467.7	1368.1	1268.5	1243.5	1059.5	814.0	691.2	625.5	494.0	395.4
125°	1264.0	1355.8	1264.0	1172.3	1149.3	992.9	784.4	680.1	622.7	507.7	421.4
127.5°	1170.5	1248.0	1170.5	1093.1	1073.7	939.5	760.3	670.8	621.0	521.4	446.6
130°	1115.4	1187.0	1115.4	1043.8	1026.0	906.4	747.0	667.3	622.1	531.4	463.4
132.5°	1065.4	1129.4	1065.4	1001.3	985.3	878.3	735.6	664.3	622.7	539.6	477.2
135°	996.9	1052.0	996.9	941.7	927.8	838.2	718.7	659.0	622.1	548.4	493.1
137.5°	941.8	987.0	941.8	896.6	885.3	809.5	708.5	658.0	625.9	561.6	513.4
140°	904.1	946.4	904.1	861.9	851.3	785.9	698.6	654.9	626.6	569.8	527.2
142.5°	872.8	909.2	872.8	836.4	827.4	769.9	693.3	654.9	628.8	576.5	537.3
145°	826.0	853.5	826.0	798.5	791.6	744.5	681.9	650.5	628.8	585.3	552.8
147.5°	790.0	812.8	790.0	767.3	761.5	724.6	675.2	650.5	633.1	598.3	572.3
150°	767.4	785.9	767.4	748.9	744.3	713.0	671.3	650.5	635.4	605.1	582.4
152.5°	748.0	762.0	748.0	734.0	730.5	703.9	668.3	650.5	636.8	609.6	589.1
155°	725.8	735.0	725.8	716.5	714.2	693.0	664.7	650.5	640.1	619.2	603.6
157.5°	708.2	714.6	708.2	701.7	700.0	683.6	661.5	650.5	643.3	629.0	618.2
160°	697.7	701.4	697.7	693.9	693.0	678.8	659.9	650.5	644.8	633.4	624.9
162.5°	690.8	694.3	690.8	687.2	686.4	674.4	658.4	650.5	646.4	638.1	632.0
165°	680.8	684.6	680.8	677.1	676.1	667.6	656.2	650.5	648.6	645.0	642.1
167.5°	673.7	675.3	673.7	672.2	671.8	666.1	658.7	654.9	653.4	650.2	647.9
170°	671.8	671.8	671.8	671.8	671.8	666.1	658.7	654.9	654.9	654.7	654.5
172.5°	666.5	665.1	666.5	667.8	668.2	663.7	657.8	654.9	654.9	654.9	654.9
175°	663.3	663.3	663.3	663.3	663.3	660.5	656.8	654.9	655.8	657.6	659.0
177.5°	660.5	659.0	660.5	662.0	662.5	660.2	657.3	655.8	656.5	657.9	659.0
180°	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0



TEST NUMBER: P935431

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
2.5°	614.0	610.6	610.6	604.9	602.6	600.9	598.1	589.4	587.1	584.8	588.3
5°	619.2	612.9	608.3	598.1	589.4	586.0	575.1	554.5	540.7	530.4	524.7
7.5°	620.4	612.3	603.8	587.7	567.1	557.9	524.7	486.9	476.6	467.5	461.7
10°	619.2	610.0	598.1	574.0	525.3	509.2	476.0	451.4	445.1	443.4	445.1
12.5°	615.2	606.6	590.0	549.9	481.7	470.9	451.4	437.1	435.9	438.8	454.2
15°	608.3	600.3	580.8	517.9	457.7	449.7	435.9	430.7	437.1	457.1	503.5
17.5°	601.5	592.3	568.3	486.3	439.4	433.6	423.9	434.2	469.7	496.7	512.1
20°	592.3	581.4	553.9	463.4	426.2	421.0	416.5	462.9	489.8	499.5	508.1
22.5°	581.4	570.0	534.4	447.4	412.5	408.4	411.3	478.9	489.8	496.7	504.1
25°	567.1	557.3	511.5	434.8	401.5	397.0	407.8	477.2	483.4	485.1	500.1
27.5°	553.9	541.3	487.5	423.3	388.4	386.7	410.8	469.7	474.3	476.0	492.1
30°	537.8	519.0	460.5	411.3	374.6	374.0	411.3	460.5	459.4	464.0	480.0
32.5°	521.3	485.7	430.2	396.4	361.5	360.9	407.2	446.8	445.7	451.9	464.0
35°	505.8	459.9	389.0	379.2	344.8	345.4	397.5	430.7	431.3	437.1	444.5
37.5°	489.8	437.7	343.7	360.3	328.8	328.8	384.4	415.9	414.8	416.5	426.7
40°	470.9	402.7	303.6	335.7	313.9	312.2	368.3	399.8	395.8	395.3	409.6
42.5°	450.8	364.3	273.8	303.0	296.7	294.4	348.8	380.3	372.9	374.6	393.0
45°	429.0	354.0	250.9	256.1	279.0	277.2	327.6	358.1	352.8	357.5	376.3
47.5°	407.2	333.4	243.4	212.5	260.1	259.5	304.2	336.3	333.4	338.0	358.1
50°	377.5	310.5	242.9	182.2	238.9	241.1	276.1	315.1	315.1	319.1	340.3
52.5°	339.1	282.4	220.5	164.9	214.2	221.1	251.5	296.7	297.8	301.8	320.8
55°	304.2	253.2	204.5	151.8	185.0	200.0	227.4	277.8	280.1	284.1	301.3
57.5°	272.1	210.8	201.1	136.3	158.1	172.4	206.2	259.5	260.6	264.1	280.7
60°	237.7	152.4	184.5	119.7	134.6	145.5	186.7	237.7	241.7	244.0	258.4
62.5°	198.8	110.5	167.2	108.3	123.2	125.5	170.7	217.1	222.2	224.0	232.6
65°	141.5	92.8	142.0	98.6	111.1	111.7	153.5	195.9	200.5	203.4	209.7
67.5°	95.7	75.6	108.3	89.3	102.0	102.5	136.9	171.3	177.6	179.9	183.9
70°	66.5	50.4	80.2	79.6	91.6	92.8	119.2	149.0	154.7	156.4	158.7
72.5°	48.7	40.7	66.5	71.6	80.8	81.9	100.8	123.8	129.5	131.2	132.3
75°	37.2	43.0	53.8	62.4	68.8	69.3	82.5	100.8	104.8	106.0	106.5
77.5°	29.8	40.1	39.5	50.4	56.1	55.0	64.7	77.9	81.3	81.3	81.3
80°	22.4	31.5	29.8	36.1	41.3	40.1	46.4	55.6	56.7	57.8	57.3
82.5°	16.6	20.1	20.1	22.9	27.5	26.4	30.9	36.1	36.1	36.1	37.2
85°	10.3	11.4	9.1	12.0	15.5	14.9	17.2	19.5	20.1	20.1	18.9
87.5°	6.3	5.1	2.9	4.6	6.8	6.8	8.0	8.6	8.0	8.0	8.0
90°	11.5	7.9	4.4	7.9	11.5	12.4	19.5	28.9	33.6	29.8	22.4
92.5°	77.8	47.7	17.7	47.7	77.8	85.3	120.0	166.2	189.3	165.9	119.2
95°	152.5	97.5	42.5	97.5	152.5	166.3	295.3	467.2	553.2	493.7	374.6
97.5°	170.5	121.9	73.4	121.9	170.5	182.6	397.7	684.4	827.8	790.2	714.9
100°	185.3	141.4	97.3	141.4	185.3	196.4	435.0	753.2	912.3	915.0	920.6
102.5°	199.8	158.7	117.6	158.7	199.8	210.0	452.1	774.9	936.2	984.2	1080.1
105°	221.7	187.0	152.1	187.0	221.7	230.4	464.8	777.3	933.6	1041.1	1256.1
107.5°	252.4	219.9	187.5	219.9	252.4	260.5	467.2	742.7	880.5	1030.5	1330.4
110°	269.9	240.7	211.4	240.7	269.9	277.2	463.6	712.1	836.3	1003.9	1339.3



TEST NUMBER: P935431

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	290.6	262.7	234.8	262.7	290.6	297.6	463.7	685.3	796.0	967.6	1310.8
115°	321.8	296.0	270.2	296.0	321.8	328.2	468.1	654.5	747.8	913.1	1243.7
117.5°	352.0	328.6	305.2	328.6	352.0	357.8	476.8	635.4	714.6	863.8	1162.1
120°	369.6	347.5	325.5	347.5	369.6	375.0	483.9	628.9	701.4	837.7	1110.3
122.5°	389.8	367.6	345.4	367.6	389.8	395.4	494.0	625.5	691.2	814.0	1059.5
125°	416.4	396.1	375.9	396.1	416.4	421.4	507.7	622.7	680.1	784.4	992.9
127.5°	441.5	421.1	400.7	421.1	441.5	446.6	521.4	621.0	670.8	760.3	939.5
130°	458.0	435.9	413.9	435.9	458.0	463.4	531.4	622.1	667.3	747.0	906.4
132.5°	471.7	449.7	427.7	449.7	471.7	477.2	539.6	622.7	664.3	735.6	878.3
135°	488.0	468.1	448.0	468.1	488.0	493.1	548.4	622.1	659.0	718.7	838.2
137.5°	508.5	488.6	468.7	488.6	508.5	513.4	561.6	625.9	658.0	708.5	809.5
140°	522.6	504.3	486.0	504.3	522.6	527.2	569.8	626.6	654.9	698.6	785.9
142.5°	533.1	516.1	499.2	516.1	533.1	537.3	576.5	628.8	654.9	693.3	769.9
145°	549.1	534.3	519.7	534.3	549.1	552.8	585.3	628.8	650.5	681.9	744.5
147.5°	568.7	554.3	540.0	554.3	568.7	572.3	598.3	633.1	650.5	675.2	724.6
150°	579.2	566.2	553.2	566.2	579.2	582.4	605.1	635.4	650.5	671.3	713.0
152.5°	586.6	576.8	567.0	576.8	586.6	589.1	609.6	636.8	650.5	668.3	703.9
155°	601.8	594.6	587.3	594.6	601.8	603.6	619.2	640.1	650.5	664.7	693.0
157.5°	616.4	609.4	602.3	609.4	616.4	618.2	629.0	643.3	650.5	661.5	683.6
160°	623.5	618.0	612.5	618.0	623.5	624.9	633.4	644.8	650.5	659.9	678.8
162.5°	630.9	626.8	622.7	626.8	630.9	632.0	638.1	646.4	650.5	658.4	674.4
165°	641.2	637.4	633.7	637.4	641.2	642.1	645.0	648.6	650.5	656.2	667.6
167.5°	647.4	645.6	643.9	645.6	647.4	647.9	650.2	653.4	654.9	658.7	666.1
170°	654.1	652.3	650.5	652.3	654.1	654.5	654.7	654.9	654.9	658.7	666.1
172.5°	654.9	654.4	654.1	654.4	654.9	654.9	654.9	654.9	654.9	657.8	663.7
175°	659.0	659.0	659.0	659.0	659.0	659.0	657.6	655.8	654.9	656.8	660.5
177.5°	659.0	659.0	659.0	659.0	659.0	659.0	657.9	656.5	655.8	657.3	660.2
180°	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0



TEST NUMBER: P935431

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
2.5°	584.3	582.6	584.8	578.6	584.8	582.6	584.3	588.3	584.8	587.1	589.4
5°	512.6	509.8	500.7	493.2	500.7	509.8	512.6	524.7	530.4	540.7	554.5
7.5°	458.2	455.9	453.7	449.1	453.7	455.9	458.2	461.7	467.5	476.6	486.9
10°	446.2	446.8	450.2	449.7	450.2	446.8	446.2	445.1	443.4	445.1	451.4
12.5°	477.2	482.3	501.2	500.1	501.2	482.3	477.2	454.2	438.8	435.9	437.1
15°	512.6	514.4	518.4	519.0	518.4	514.4	512.6	503.5	457.1	437.1	430.7
17.5°	516.1	516.7	519.6	519.6	519.6	516.7	516.1	512.1	496.7	469.7	434.2
20°	513.2	514.4	520.2	521.3	520.2	514.4	513.2	508.1	499.5	489.8	462.9
22.5°	512.1	514.4	519.0	518.4	519.0	514.4	512.1	504.1	496.7	489.8	478.9
25°	506.4	506.4	506.9	507.5	506.9	506.4	506.4	500.1	485.1	483.4	477.2
27.5°	494.4	495.5	498.9	498.4	498.9	495.5	494.4	492.1	476.0	474.3	469.7
30°	483.4	482.3	479.4	477.2	479.4	482.3	483.4	480.0	464.0	459.4	460.5
32.5°	465.2	462.3	459.4	457.7	459.4	462.3	465.2	464.0	451.9	445.7	446.8
35°	443.4	444.0	443.4	441.7	443.4	444.0	443.4	444.5	437.1	431.3	430.7
37.5°	427.9	429.0	428.4	426.2	428.4	429.0	427.9	426.7	416.5	414.8	415.9
40°	411.9	412.5	411.9	410.2	411.9	412.5	411.9	409.6	395.3	395.8	399.8
42.5°	396.4	395.8	394.1	393.0	394.1	395.8	396.4	393.0	374.6	372.9	380.3
45°	378.6	379.2	375.7	374.0	375.7	379.2	378.6	376.3	357.5	352.8	358.1
47.5°	360.9	360.9	358.1	356.3	358.1	360.9	360.9	358.1	338.0	333.4	336.3
50°	342.0	341.4	337.4	336.8	337.4	341.4	342.0	340.3	319.1	315.1	315.1
52.5°	320.2	320.2	320.8	321.9	320.8	320.2	320.2	320.8	301.8	297.8	296.7
55°	301.3	301.8	305.9	307.1	305.9	301.8	301.3	301.3	284.1	280.1	277.8
57.5°	281.9	281.9	284.7	284.7	284.7	281.9	281.9	280.7	264.1	260.6	259.5
60°	259.5	260.6	262.9	262.4	262.9	260.6	259.5	258.4	244.0	241.7	237.7
62.5°	236.0	237.2	237.7	236.6	237.7	237.2	236.0	232.6	224.0	222.2	217.1
65°	211.4	212.5	213.1	211.9	213.1	212.5	211.4	209.7	203.4	200.5	195.9
67.5°	186.2	185.6	185.0	187.3	185.0	185.6	186.2	183.9	179.9	177.6	171.3
70°	160.4	160.4	159.8	161.0	159.8	160.4	160.4	158.7	156.4	154.7	149.0
72.5°	132.9	132.3	134.6	132.9	134.6	132.3	132.9	132.3	131.2	129.5	123.8
75°	106.0	107.1	106.0	107.7	106.0	107.1	106.0	106.5	106.0	104.8	100.8
77.5°	80.8	81.9	80.8	80.8	80.8	81.9	80.8	81.3	81.3	81.3	77.9
80°	57.3	56.7	56.7	56.1	56.7	56.7	57.3	57.3	57.8	56.7	55.6
82.5°	36.6	36.1	36.1	37.2	36.1	36.1	36.6	37.2	36.1	36.1	36.1
85°	20.1	20.6	19.5	19.5	19.5	20.6	20.1	18.9	20.1	20.1	19.5
87.5°	7.4	6.8	6.8	6.8	6.8	6.8	7.4	8.0	8.0	8.0	8.6
90°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	22.4	29.8	33.6	28.9
92.5°	84.0	80.7	67.3	54.0	67.3	80.7	84.0	119.2	165.9	189.3	166.2
95°	285.3	275.1	234.6	194.1	234.6	275.1	285.3	374.6	493.7	553.2	467.2
97.5°	658.4	639.2	562.2	485.1	562.2	639.2	658.4	714.9	790.2	827.8	684.4
100°	924.7	901.7	810.0	718.2	810.0	901.7	924.7	920.6	915.0	912.3	753.2
102.5°	1152.0	1132.4	1053.7	975.2	1053.7	1132.4	1152.0	1080.1	984.2	936.2	774.9
105°	1417.3	1406.7	1364.6	1322.3	1364.6	1406.7	1417.3	1256.1	1041.1	933.6	777.3
107.5°	1555.3	1557.8	1568.1	1578.3	1568.1	1557.8	1555.3	1330.4	1030.5	880.5	742.7
110°	1590.7	1601.7	1645.7	1689.7	1645.7	1601.7	1590.7	1339.3	1003.9	836.3	712.1



TEST NUMBER: P935431

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1568.2	1585.1	1652.7	1720.3	1652.7	1585.1	1568.2	1310.8	967.6	796.0	685.3
115°	1491.6	1515.1	1608.8	1702.6	1608.8	1515.1	1491.6	1243.7	913.1	747.8	654.5
117.5°	1385.9	1411.9	1515.9	1619.9	1515.9	1411.9	1385.9	1162.1	863.8	714.6	635.4
120°	1314.8	1340.0	1441.0	1542.0	1441.0	1340.0	1314.8	1110.3	837.7	701.4	628.9
122.5°	1243.5	1268.5	1368.1	1467.7	1368.1	1268.5	1243.5	1059.5	814.0	691.2	625.5
125°	1149.3	1172.3	1264.0	1355.8	1264.0	1172.3	1149.3	992.9	784.4	680.1	622.7
127.5°	1073.7	1093.1	1170.5	1248.0	1170.5	1093.1	1073.7	939.5	760.3	670.8	621.0
130°	1026.0	1043.8	1115.4	1187.0	1115.4	1043.8	1026.0	906.4	747.0	667.3	622.1
132.5°	985.3	1001.3	1065.4	1129.4	1065.4	1001.3	985.3	878.3	735.6	664.3	622.7
135°	927.8	941.7	996.9	1052.0	996.9	941.7	927.8	838.2	718.7	659.0	622.1
137.5°	885.3	896.6	941.8	987.0	941.8	896.6	885.3	809.5	708.5	658.0	625.9
140°	851.3	861.9	904.1	946.4	904.1	861.9	851.3	785.9	698.6	654.9	626.6
142.5°	827.4	836.4	872.8	909.2	872.8	836.4	827.4	769.9	693.3	654.9	628.8
145°	791.6	798.5	826.0	853.5	826.0	798.5	791.6	744.5	681.9	650.5	628.8
147.5°	761.5	767.3	790.0	812.8	790.0	767.3	761.5	724.6	675.2	650.5	633.1
150°	744.3	748.9	767.4	785.9	767.4	748.9	744.3	713.0	671.3	650.5	635.4
152.5°	730.5	734.0	748.0	762.0	748.0	734.0	730.5	703.9	668.3	650.5	636.8
155°	714.2	716.5	725.8	735.0	725.8	716.5	714.2	693.0	664.7	650.5	640.1
157.5°	700.0	701.7	708.2	714.6	708.2	701.7	700.0	683.6	661.5	650.5	643.3
160°	693.0	693.9	697.7	701.4	697.7	693.9	693.0	678.8	659.9	650.5	644.8
162.5°	686.4	687.2	690.8	694.3	690.8	687.2	686.4	674.4	658.4	650.5	646.4
165°	676.1	677.1	680.8	684.6	680.8	677.1	676.1	667.6	656.2	650.5	648.6
167.5°	671.8	672.2	673.7	675.3	673.7	672.2	671.8	666.1	658.7	654.9	653.4
170°	671.8	671.8	671.8	671.8	671.8	671.8	671.8	666.1	658.7	654.9	654.9
172.5°	668.2	667.8	666.5	665.1	666.5	667.8	668.2	663.7	657.8	654.9	654.9
175°	663.3	663.3	663.3	663.3	663.3	663.3	663.3	660.5	656.8	654.9	655.8
177.5°	662.5	662.0	660.5	659.0	660.5	662.0	662.5	660.2	657.3	655.8	656.5
180°	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0



TEST NUMBER: P935431

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	605.5	605.5	605.5	605.5	605.5
2.5°	598.1	600.9	602.6	604.9	610.6
5°	575.1	586.0	589.4	598.1	608.3
7.5°	524.7	557.9	567.1	587.7	603.8
10°	476.0	509.2	525.3	574.0	598.1
12.5°	451.4	470.9	481.7	549.9	590.0
15°	435.9	449.7	457.7	517.9	580.8
17.5°	423.9	433.6	439.4	486.3	568.3
20°	416.5	421.0	426.2	463.4	553.9
22.5°	411.3	408.4	412.5	447.4	534.4
25°	407.8	397.0	401.5	434.8	511.5
27.5°	410.8	386.7	388.4	423.3	487.5
30°	411.3	374.0	374.6	411.3	460.5
32.5°	407.2	360.9	361.5	396.4	430.2
35°	397.5	345.4	344.8	379.2	389.0
37.5°	384.4	328.8	328.8	360.3	343.7
40°	368.3	312.2	313.9	335.7	303.6
42.5°	348.8	294.4	296.7	303.0	273.8
45°	327.6	277.2	279.0	256.1	250.9
47.5°	304.2	259.5	260.1	212.5	243.4
50°	276.1	241.1	238.9	182.2	242.9
52.5°	251.5	221.1	214.2	164.9	220.5
55°	227.4	200.0	185.0	151.8	204.5
57.5°	206.2	172.4	158.1	136.3	201.1
60°	186.7	145.5	134.6	119.7	184.5
62.5°	170.7	125.5	123.2	108.3	167.2
65°	153.5	111.7	111.1	98.6	142.0
67.5°	136.9	102.5	102.0	89.3	108.3
70°	119.2	92.8	91.6	79.6	80.2
72.5°	100.8	81.9	80.8	71.6	66.5
75°	82.5	69.3	68.8	62.4	53.8
77.5°	64.7	55.0	56.1	50.4	39.5
80°	46.4	40.1	41.3	36.1	29.8
82.5°	30.9	26.4	27.5	22.9	20.1
85°	17.2	14.9	15.5	12.0	9.1
87.5°	8.0	6.8	6.8	4.6	2.9
90°	19.5	12.4	11.5	7.9	4.4
92.5°	120.0	85.3	77.8	47.7	17.7
95°	295.3	166.3	152.5	97.5	42.5
97.5°	397.7	182.6	170.5	121.9	73.4
100°	435.0	196.4	185.3	141.4	97.3
102.5°	452.1	210.0	199.8	158.7	117.6
105°	464.8	230.4	221.7	187.0	152.1
107.5°	467.2	260.5	252.4	219.9	187.5
110°	463.6	277.2	269.9	240.7	211.4



TEST NUMBER: P935431

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	463.7	297.6	290.6	262.7	234.8
115°	468.1	328.2	321.8	296.0	270.2
117.5°	476.8	357.8	352.0	328.6	305.2
120°	483.9	375.0	369.6	347.5	325.5
122.5°	494.0	395.4	389.8	367.6	345.4
125°	507.7	421.4	416.4	396.1	375.9
127.5°	521.4	446.6	441.5	421.1	400.7
130°	531.4	463.4	458.0	435.9	413.9
132.5°	539.6	477.2	471.7	449.7	427.7
135°	548.4	493.1	488.0	468.1	448.0
137.5°	561.6	513.4	508.5	488.6	468.7
140°	569.8	527.2	522.6	504.3	486.0
142.5°	576.5	537.3	533.1	516.1	499.2
145°	585.3	552.8	549.1	534.3	519.7
147.5°	598.3	572.3	568.7	554.3	540.0
150°	605.1	582.4	579.2	566.2	553.2
152.5°	609.6	589.1	586.6	576.8	567.0
155°	619.2	603.6	601.8	594.6	587.3
157.5°	629.0	618.2	616.4	609.4	602.3
160°	633.4	624.9	623.5	618.0	612.5
162.5°	638.1	632.0	630.9	626.8	622.7
165°	645.0	642.1	641.2	637.4	633.7
167.5°	650.2	647.9	647.4	645.6	643.9
170°	654.7	654.5	654.1	652.3	650.5
172.5°	654.9	654.9	654.9	654.4	654.1
175°	657.6	659.0	659.0	659.0	659.0
177.5°	657.9	659.0	659.0	659.0	659.0
180°	659.0	659.0	659.0	659.0	659.0



TEST NUMBER: P935431
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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	8.13	8.82	9.27	9.94	11.51	10.93	11.62	12.07	12.74	14.31
	3H	8.60	9.21	9.74	10.34	11.93	12.25	12.87	13.40	14.00	15.58
	4H	8.78	9.36	9.93	10.50	12.08	12.68	13.27	13.83	14.40	15.99
	6H	8.89	9.43	10.05	10.56	12.16	12.95	13.49	14.11	14.62	16.22
	8H	8.89	9.40	10.05	10.55	12.14	13.02	13.53	14.18	14.68	16.27
	12H	8.85	9.34	10.02	10.48	12.09	13.04	13.53	14.21	14.67	16.29
4H	2H	9.14	9.72	10.30	10.85	12.44	11.32	11.91	12.48	13.04	14.63
	3H	10.15	10.63	11.31	11.79	13.39	12.80	13.29	13.96	14.45	16.05
	4H	10.42	10.86	11.58	12.01	13.63	13.31	13.76	14.48	14.91	16.53
	6H	10.53	10.91	11.70	12.08	13.69	13.66	14.04	14.83	15.22	16.82
	8H	10.53	10.89	11.70	12.05	13.68	13.76	14.12	14.93	15.28	16.90
	12H	10.49	10.82	11.68	11.99	13.62	13.80	14.13	14.99	15.30	16.93
8H	4H	10.85	11.21	12.02	12.37	14.00	13.43	13.78	14.60	14.94	16.57
	6H	11.10	11.40	12.29	12.60	14.23	13.85	14.14	15.04	15.35	16.97
	8H	11.15	11.40	12.34	12.58	14.23	13.99	14.25	15.19	15.43	17.07
	12H	11.12	11.35	12.32	12.53	14.20	14.08	14.30	15.28	15.48	17.16
12H	4H	10.85	11.17	12.03	12.34	13.97	13.38	13.71	14.57	14.88	16.51
	6H	11.16	11.42	12.36	12.60	14.24	13.84	14.10	15.04	15.28	16.92
	8H	11.22	11.45	12.42	12.63	14.30	13.99	14.22	15.19	15.40	17.07