

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: P935435

Luminaire Tested: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935435
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-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

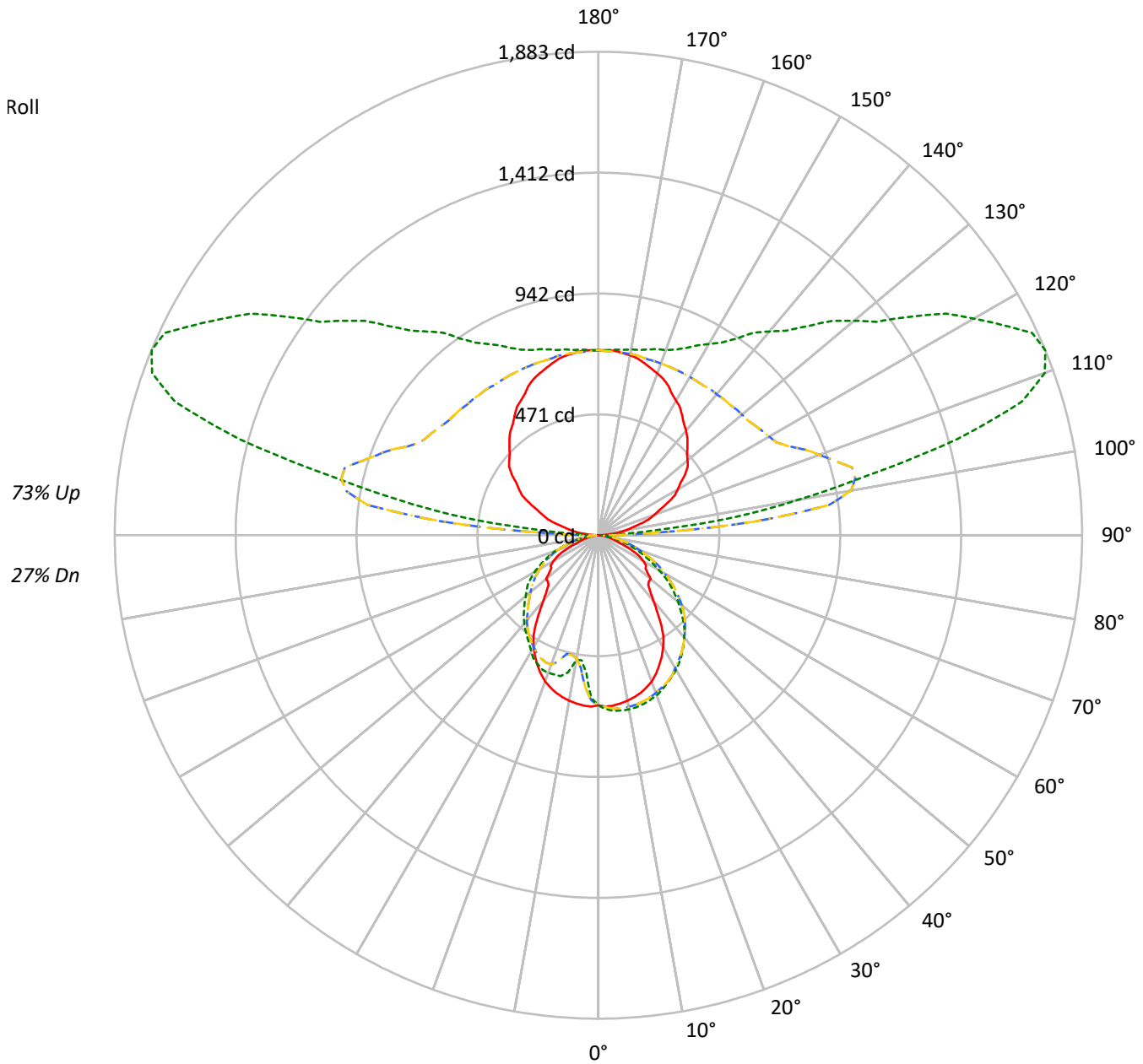
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6395.3 lumens
Efficiency: N/A
Efficacy: 134.4 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

TEST NUMBER: P935435
CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-5000K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° ··· 90°-270° - · 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
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	
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°	6148	6148	6148	6148
5°	6187	6206	6187	4880
10°	6140	6114	6140	4371
15°	6065	5982	6065	4994
20°	5932	5824	5932	5005
25°	5665	5596	5665	4899
30°	5323	5405	5323	4666
35°	4739	5165	4739	4410
40°	3941	4882	3941	4216
45°	3514	4551	3514	3994
50°	3726	4156	3726	3771
55°	3496	3731	3496	3642
60°	3591	3168	3591	3336
65°	3238	2619	3238	2927
70°	2229	2087	2229	2455
75°	1931	1543	1931	1848
80°	1526	1022	1526	1110
85°	828	541	828	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5398 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	0.9
10°-20°	169.8	2.7
20°-30°	262.5	4.1
30°-40°	313.4	4.9
40°-50°	315.2	4.9
50°-60°	274.3	4.3
60°-70°	194.5	3.0
70°-80°	102.9	1.6
80°-90°	28.4	0.4
90°-100°	351.5	5.5
100°-110°	924.1	14.4
110°-120°	958.2	15.0
120°-130°	768.6	12.0
130°-140°	603.1	9.4
140°-150°	462.9	7.2
150°-160°	333.3	5.2
160°-170°	204.0	3.2
170°-180°	68.9	1.1
0°-30°	492.1	7.7
0°-40°	805.5	12.6
0°-60°	1395.0	21.8
0°-90°	1720.7	26.9
90°-120°	2233.8	34.9
90°-150°	4068.3	63.6
90°-180°	4675.0	73.1
0°-180°	6395.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	663	663	663	663	663	
5°	666	686	666	540	666	63
15°	636	680	636	568	636	179
25°	560	634	560	555	560	257
35°	426	566	426	483	426	263
45°	274	466	274	409	274	220
55°	224	344	224	336	224	206
65°	155	208	155	232	155	149
75°	59	98	59	118	59	62
85°	10	25	10	21	10	14
90°	5	18	5	18	5	4
95°	46	212	46	212	46	52
105°	166	1447	166	1447	166	176
115°	296	1863	296	1863	296	292
125°	411	1484	411	1484	411	365
135°	490	1151	490	1151	490	379
145°	569	934	569	934	569	356
155°	643	804	643	804	643	295
165°	694	749	694	749	694	196
175°	721	726	721	726	721	68
180°	721	721	721	721	721	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6
2.5°	668.2	668.2	672.0	673.3	673.3	671.4	669.5	671.4	677.0	678.9	678.2
5°	665.7	670.7	677.7	678.9	680.2	679.5	678.2	679.5	685.8	687.0	687.7
7.5°	660.7	670.1	678.9	680.7	682.6	680.7	680.2	681.4	687.7	688.9	688.9
10°	654.5	667.6	677.7	678.9	680.7	678.9	678.9	681.4	687.7	688.9	689.5
12.5°	645.7	663.8	673.3	674.5	677.0	676.4	675.8	678.2	684.6	685.8	685.8
15°	635.6	656.9	665.7	667.0	671.4	670.1	670.1	672.6	679.5	681.4	680.7
17.5°	621.9	648.2	658.2	660.1	663.3	662.6	663.3	665.7	672.0	673.3	673.9
20°	606.2	636.3	648.2	650.1	653.2	653.2	653.2	656.4	662.6	665.1	665.1
22.5°	584.8	623.7	636.3	637.6	641.3	641.3	642.5	646.9	652.5	653.2	653.2
25°	559.8	609.9	620.6	624.4	628.1	630.0	631.9	634.4	636.3	635.6	636.3
27.5°	533.4	592.4	606.2	608.7	613.7	615.6	618.1	618.7	619.3	621.2	620.0
30°	504.0	567.9	588.6	591.1	599.2	600.5	598.0	599.2	602.4	603.6	604.9
32.5°	470.8	531.6	570.5	576.1	583.6	579.9	579.2	581.1	586.2	586.2	587.4
35°	425.7	503.3	553.5	558.6	564.2	559.8	562.3	562.9	566.1	567.9	567.3
37.5°	376.1	478.9	536.0	539.7	544.1	538.5	542.2	544.1	546.6	545.4	545.4
40°	332.2	440.7	515.3	517.8	521.6	517.2	520.9	522.2	523.4	522.2	521.6
42.5°	299.7	398.7	493.3	496.5	494.0	497.1	498.4	500.9	498.9	496.5	496.5
45°	274.5	387.4	469.5	473.2	469.5	474.6	476.4	476.4	470.8	469.5	468.8
47.5°	266.4	364.8	445.7	445.7	443.8	450.1	453.2	448.8	443.2	441.3	441.3
50°	265.8	339.8	413.1	410.6	419.4	426.9	423.8	419.4	415.0	408.1	408.1
52.5°	241.3	309.0	371.1	380.5	394.3	398.7	393.7	389.3	381.7	378.6	376.1
55°	223.8	277.0	332.8	351.6	366.1	371.7	362.3	357.9	346.7	344.8	343.5
57.5°	220.0	230.7	297.8	321.5	339.1	338.6	332.8	324.7	315.3	313.4	312.8
60°	201.9	166.8	260.1	288.4	306.5	304.6	299.7	292.1	283.3	282.1	280.9
62.5°	183.0	121.0	217.5	249.5	275.2	274.5	270.2	258.9	252.7	249.5	246.9
65°	155.4	101.5	154.9	207.5	244.5	245.7	236.3	228.2	221.2	217.5	216.9
67.5°	118.5	82.7	104.7	173.0	215.0	213.8	201.9	198.1	189.3	187.4	183.7
70°	87.8	55.1	72.7	140.4	186.2	183.0	173.7	169.3	161.1	156.8	154.2
72.5°	72.7	44.5	53.3	109.1	156.8	152.9	144.8	139.8	132.9	129.2	126.7
75°	58.9	47.0	40.8	80.9	127.2	124.8	117.2	112.2	106.6	101.5	102.2
77.5°	43.3	43.8	32.6	59.5	100.9	97.2	92.8	86.6	84.0	79.0	79.0
80°	32.6	34.5	24.5	40.8	72.7	72.7	69.0	64.6	60.2	57.7	57.7
82.5°	22.0	22.0	18.1	25.7	49.5	47.7	45.1	43.8	41.4	40.1	40.1
85°	10.0	12.5	11.3	15.7	26.9	28.2	28.2	26.9	26.4	25.1	25.7
87.5°	3.2	5.6	6.9	8.8	13.8	14.4	15.0	15.0	15.0	15.7	15.7
90°	4.9	8.7	12.6	13.6	21.3	31.6	36.7	32.6	24.5	18.4	18.4
92.5°	19.3	52.3	85.2	93.4	131.3	181.9	207.1	181.5	130.4	92.0	88.3
95°	46.5	106.6	166.9	182.0	323.1	511.3	605.4	540.3	410.0	312.2	301.1
97.5°	80.3	133.4	186.6	199.8	435.2	749.0	905.9	864.7	782.3	720.6	699.5
100°	106.5	154.7	202.8	214.9	476.0	824.2	998.4	1001.4	1007.4	1011.9	986.8
102.5°	128.7	173.7	218.6	229.8	494.7	848.0	1024.5	1077.1	1182.0	1260.7	1239.2
105°	166.5	204.6	242.6	252.2	508.7	850.7	1021.6	1139.3	1374.6	1551.1	1539.5
107.5°	205.2	240.7	276.2	285.1	511.3	812.8	963.6	1127.7	1455.9	1702.0	1704.8
110°	231.3	263.4	295.4	303.4	507.4	779.3	915.2	1098.7	1465.6	1740.8	1752.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	257.0	287.5	318.0	325.7	507.5	749.9	871.1	1058.9	1434.5	1716.1	1734.6
115°	295.6	323.9	352.1	359.1	512.2	716.3	818.3	999.2	1361.0	1632.4	1658.0
117.5°	334.0	359.6	385.2	391.5	521.8	695.3	782.1	945.3	1271.8	1516.7	1545.1
120°	356.2	380.3	404.4	410.4	529.5	688.2	767.6	916.8	1215.0	1438.8	1466.5
122.5°	378.0	402.3	426.6	432.7	540.6	684.5	756.5	890.8	1159.4	1360.8	1388.1
125°	411.4	433.5	455.7	461.2	555.6	681.4	744.3	858.4	1086.6	1257.7	1282.9
127.5°	438.5	460.8	483.1	488.8	570.5	679.6	734.1	832.1	1028.1	1175.0	1196.2
130°	453.0	477.1	501.2	507.2	581.6	680.7	730.3	817.5	991.9	1122.8	1142.3
132.5°	468.0	492.1	516.2	522.2	590.5	681.4	726.9	805.0	961.2	1078.3	1095.8
135°	490.3	512.2	534.1	539.6	600.1	680.7	721.1	786.6	917.3	1015.4	1030.5
137.5°	513.0	534.7	556.4	561.9	614.6	685.0	720.1	775.3	885.9	968.8	981.2
140°	531.8	551.9	571.9	576.9	623.5	685.7	716.7	764.5	860.0	931.6	943.2
142.5°	546.3	564.8	583.4	588.0	630.9	688.1	716.7	758.7	842.5	905.4	915.4
145°	568.7	584.8	600.9	604.9	640.6	688.1	711.9	746.2	814.8	866.3	873.9
147.5°	590.9	606.6	622.3	626.3	654.8	692.8	711.9	738.9	792.9	833.4	839.6
150°	605.4	619.6	633.8	637.4	662.2	695.3	711.9	734.7	780.3	814.5	819.6
152.5°	620.5	631.2	642.0	644.7	667.1	696.9	711.9	731.3	770.3	799.5	803.3
155°	642.7	650.6	658.6	660.6	677.7	700.5	711.9	727.4	758.3	781.6	784.1
157.5°	659.2	666.9	674.6	676.5	688.3	704.0	711.9	723.9	748.0	766.1	767.9
160°	670.3	676.3	682.3	683.8	693.2	705.6	711.9	722.2	742.8	758.3	759.4
162.5°	681.4	685.9	690.5	691.6	698.3	707.4	711.9	720.6	738.0	751.1	752.1
165°	693.5	697.6	701.7	702.7	705.8	709.8	711.9	718.1	730.6	739.9	740.9
167.5°	704.7	706.5	708.5	709.0	711.6	715.1	716.7	720.8	729.0	735.1	735.6
170°	711.9	713.8	715.8	716.3	716.5	716.6	716.7	720.8	729.0	735.1	735.1
172.5°	715.8	716.2	716.6	716.7	716.7	716.7	716.7	719.9	726.4	731.2	730.8
175°	721.1	721.1	721.1	721.1	719.6	717.7	716.7	718.8	722.8	725.9	725.9
177.5°	721.1	721.1	721.1	721.1	720.0	718.4	717.7	719.3	722.5	725.0	724.5
180°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6
2.5°	679.5	677.7	679.5	678.2	678.9	677.0	671.4	669.5	671.4	673.3	673.3
5°	687.7	686.4	687.7	687.7	687.0	685.8	679.5	678.2	679.5	680.2	678.9
7.5°	690.2	688.3	690.2	688.9	688.9	687.7	681.4	680.2	680.7	682.6	680.7
10°	690.2	688.3	690.2	689.5	688.9	687.7	681.4	678.9	678.9	680.7	678.9
12.5°	687.0	685.8	687.0	685.8	685.8	684.6	678.2	675.8	676.4	677.0	674.5
15°	682.1	680.2	682.1	680.7	681.4	679.5	672.6	670.1	670.1	671.4	667.0
17.5°	674.5	672.0	674.5	673.9	673.3	672.0	665.7	663.3	662.6	663.3	660.1
20°	665.7	663.8	665.7	665.1	665.1	662.6	656.4	653.2	653.2	653.2	650.1
22.5°	652.0	650.1	652.0	653.2	653.2	652.5	646.9	642.5	641.3	641.3	637.6
25°	636.3	634.4	636.3	636.3	635.6	636.3	634.4	631.9	630.0	628.1	624.4
27.5°	621.2	620.0	621.2	620.0	621.2	619.3	618.7	618.1	615.6	613.7	608.7
30°	606.2	604.9	606.2	604.9	603.6	602.4	599.2	598.0	600.5	599.2	591.1
32.5°	587.4	586.2	587.4	587.4	586.2	586.2	581.1	579.2	579.9	583.6	576.1
35°	567.9	566.1	567.9	567.3	567.9	566.1	562.9	562.3	559.8	564.2	558.6
37.5°	545.4	543.5	545.4	545.4	545.4	546.6	544.1	542.2	538.5	544.1	539.7
40°	522.2	519.7	522.2	521.6	522.2	523.4	522.2	520.9	517.2	521.6	517.8
42.5°	495.9	495.2	495.9	496.5	496.5	498.9	500.9	498.4	497.1	494.0	496.5
45°	467.6	466.4	467.6	468.8	469.5	470.8	476.4	476.4	474.6	469.5	473.2
47.5°	437.5	434.5	437.5	441.3	441.3	443.2	448.8	453.2	450.1	443.8	445.7
50°	405.6	406.2	405.6	408.1	408.1	415.0	419.4	423.8	426.9	419.4	410.6
52.5°	374.3	373.6	374.3	376.1	378.6	381.7	389.3	393.7	398.7	394.3	380.5
55°	342.9	344.2	342.9	343.5	344.8	346.7	357.9	362.3	371.7	366.1	351.6
57.5°	311.5	309.7	311.5	312.8	313.4	315.3	324.7	332.8	338.6	339.1	321.5
60°	275.2	272.7	275.2	280.9	282.1	283.3	292.1	299.7	304.6	306.5	288.4
62.5°	243.2	238.8	243.2	246.9	249.5	252.7	258.9	270.2	274.5	275.2	249.5
65°	209.4	207.5	209.4	216.9	217.5	221.2	228.2	236.3	245.7	244.5	207.5
67.5°	178.6	178.6	178.6	183.7	187.4	189.3	198.1	201.9	213.8	215.0	173.0
70°	150.5	149.8	150.5	154.2	156.8	161.1	169.3	173.7	183.0	186.2	140.4
72.5°	123.5	122.8	123.5	126.7	129.2	132.9	139.8	144.8	152.9	156.8	109.1
75°	99.6	98.4	99.6	102.2	101.5	106.6	112.2	117.2	124.8	127.2	80.9
77.5°	76.5	76.5	76.5	79.0	79.0	84.0	86.6	92.8	97.2	100.9	59.5
80°	57.0	56.5	57.0	57.7	57.7	60.2	64.6	69.0	72.7	72.7	40.8
82.5°	40.1	38.9	40.1	40.1	40.1	41.4	43.8	45.1	47.7	49.5	25.7
85°	25.1	25.1	25.1	25.7	25.1	26.4	26.9	28.2	28.2	26.9	15.7
87.5°	16.3	15.7	16.3	15.7	15.7	15.0	15.0	15.0	14.4	13.8	8.8
90°	18.4	18.4	18.4	18.4	18.4	24.5	32.6	36.7	31.6	21.3	13.6
92.5°	73.7	59.1	73.7	88.3	92.0	130.4	181.5	207.1	181.9	131.3	93.4
95°	256.8	212.5	256.8	301.1	312.2	410.0	540.3	605.4	511.3	323.1	182.0
97.5°	615.2	530.9	615.2	699.5	720.6	782.3	864.7	905.9	749.0	435.2	199.8
100°	886.4	785.9	886.4	986.8	1011.9	1007.4	1001.4	998.4	824.2	476.0	214.9
102.5°	1153.1	1067.2	1153.1	1239.2	1260.7	1182.0	1077.1	1024.5	848.0	494.7	229.8
105°	1493.3	1447.0	1493.3	1539.5	1551.1	1374.6	1139.3	1021.6	850.7	508.7	252.2
107.5°	1716.0	1727.2	1716.0	1704.8	1702.0	1455.9	1127.7	963.6	812.8	511.3	285.1
110°	1801.0	1849.1	1801.0	1752.9	1740.8	1465.6	1098.7	915.2	779.3	507.4	303.4



TEST NUMBER: P935435

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1808.6	1882.6	1808.6	1734.6	1716.1	1434.5	1058.9	871.1	749.9	507.5	325.7
115°	1760.6	1863.2	1760.6	1658.0	1632.4	1361.0	999.2	818.3	716.3	512.2	359.1
117.5°	1658.9	1772.7	1658.9	1545.1	1516.7	1271.8	945.3	782.1	695.3	521.8	391.5
120°	1576.9	1687.5	1576.9	1466.5	1438.8	1215.0	916.8	767.6	688.2	529.5	410.4
122.5°	1497.1	1606.2	1497.1	1388.1	1360.8	1159.4	890.8	756.5	684.5	540.6	432.7
125°	1383.3	1483.8	1383.3	1282.9	1257.7	1086.6	858.4	744.3	681.4	555.6	461.2
127.5°	1280.9	1365.7	1280.9	1196.2	1175.0	1028.1	832.1	734.1	679.6	570.5	488.8
130°	1220.6	1299.0	1220.6	1142.3	1122.8	991.9	817.5	730.3	680.7	581.6	507.2
132.5°	1165.9	1236.0	1165.9	1095.8	1078.3	961.2	805.0	726.9	681.4	590.5	522.2
135°	1090.9	1151.3	1090.9	1030.5	1015.4	917.3	786.6	721.1	680.7	600.1	539.6
137.5°	1030.7	1080.1	1030.7	981.2	968.8	885.9	775.3	720.1	685.0	614.6	561.9
140°	989.4	1035.7	989.4	943.2	931.6	860.0	764.5	716.7	685.7	623.5	576.9
142.5°	955.2	995.0	955.2	915.4	905.4	842.5	758.7	716.7	688.1	630.9	588.0
145°	904.0	934.1	904.0	873.9	866.3	814.8	746.2	711.9	688.1	640.6	604.9
147.5°	864.5	889.5	864.5	839.6	833.4	792.9	738.9	711.9	692.8	654.8	626.3
150°	839.8	860.0	839.8	819.6	814.5	780.3	734.7	711.9	695.3	662.2	637.4
152.5°	818.5	833.9	818.5	803.3	799.5	770.3	731.3	711.9	696.9	667.1	644.7
155°	794.2	804.3	794.2	784.1	781.6	758.3	727.4	711.9	700.5	677.7	660.6
157.5°	775.0	782.1	775.0	767.9	766.1	748.0	723.9	711.9	704.0	688.3	676.5
160°	763.5	767.6	763.5	759.4	758.3	742.8	722.2	711.9	705.6	693.2	683.8
162.5°	756.0	759.8	756.0	752.1	751.1	738.0	720.6	711.9	707.4	698.3	691.6
165°	745.1	749.2	745.1	740.9	739.9	730.6	718.1	711.9	709.8	705.8	702.7
167.5°	737.3	739.0	737.3	735.6	735.1	729.0	720.8	716.7	715.1	711.6	709.0
170°	735.1	735.1	735.1	735.1	735.1	729.0	720.8	716.7	716.6	716.5	716.3
172.5°	729.4	727.9	729.4	730.8	731.2	726.4	719.9	716.7	716.7	716.7	716.7
175°	725.9	725.9	725.9	725.9	725.9	722.8	718.8	716.7	717.7	719.6	721.1
177.5°	722.8	721.1	722.8	724.5	725.0	722.5	719.3	717.7	718.4	720.0	721.1
180°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1



TEST NUMBER: P935435

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6
2.5°	672.0	668.2	668.2	662.0	659.4	657.6	654.5	645.0	642.5	640.0	643.8
5°	677.7	670.7	665.7	654.5	645.0	641.3	629.3	606.8	591.8	580.5	574.2
7.5°	678.9	670.1	660.7	643.2	620.6	610.5	574.2	532.9	521.6	511.6	505.2
10°	677.7	667.6	654.5	628.1	574.8	557.3	520.9	494.0	487.1	485.2	487.1
12.5°	673.3	663.8	645.7	601.8	527.2	515.3	494.0	478.3	477.1	480.2	497.1
15°	665.7	656.9	635.6	566.7	500.9	492.1	477.1	471.4	478.3	500.3	551.0
17.5°	658.2	648.2	621.9	532.2	480.8	474.6	463.9	475.2	514.0	543.5	560.4
20°	648.2	636.3	606.2	507.2	466.4	460.7	455.8	506.5	536.0	546.6	556.1
22.5°	636.3	623.7	584.8	489.6	451.4	447.0	450.1	524.1	536.0	543.5	551.7
25°	620.6	609.9	559.8	475.8	439.4	434.5	446.3	522.2	529.0	530.9	547.3
27.5°	606.2	592.4	533.4	463.2	425.0	423.1	449.5	514.0	519.0	520.9	538.5
30°	588.6	567.9	504.0	450.1	410.0	409.3	450.1	504.0	502.8	507.7	525.3
32.5°	570.5	531.6	470.8	433.8	395.6	394.9	445.7	488.9	487.7	494.6	507.7
35°	553.5	503.3	425.7	415.0	377.3	378.0	435.0	471.4	472.0	478.3	486.4
37.5°	536.0	478.9	376.1	394.3	359.9	359.9	420.6	455.1	453.9	455.8	467.0
40°	515.3	440.7	332.2	367.3	343.5	341.6	403.0	437.5	433.1	432.6	448.2
42.5°	493.3	398.7	299.7	331.6	324.7	322.2	381.7	416.2	408.1	410.0	430.1
45°	469.5	387.4	274.5	280.2	305.3	303.4	358.6	391.8	386.1	391.2	411.8
47.5°	445.7	364.8	266.4	232.6	284.6	284.0	332.8	368.0	364.8	369.9	391.8
50°	413.1	339.8	265.8	199.4	261.4	263.9	302.2	344.8	344.8	349.2	372.4
52.5°	371.1	309.0	241.3	180.5	234.4	242.0	275.2	324.7	325.9	330.3	351.1
55°	332.8	277.0	223.8	166.1	202.5	218.8	248.8	304.1	306.5	310.9	329.8
57.5°	297.8	230.7	220.0	149.2	173.0	188.7	225.6	284.0	285.2	289.0	307.1
60°	260.1	166.8	201.9	131.0	147.3	159.2	204.3	260.1	264.5	267.0	282.7
62.5°	217.5	121.0	183.0	118.5	134.8	137.3	186.8	237.6	243.2	245.1	254.5
65°	154.9	101.5	155.4	107.9	121.6	122.3	168.0	214.4	219.4	222.6	229.5
67.5°	104.7	82.7	118.5	97.8	111.6	112.2	149.8	187.4	194.3	196.8	201.2
70°	72.7	55.1	87.8	87.1	100.3	101.5	130.4	163.0	169.3	171.1	173.7
72.5°	53.3	44.5	72.7	78.3	88.4	89.6	110.3	135.4	141.7	143.6	144.8
75°	40.8	47.0	58.9	68.3	75.2	75.8	90.3	110.3	114.7	116.0	116.6
77.5°	32.6	43.8	43.3	55.1	61.4	60.2	70.9	85.2	89.0	89.0	89.0
80°	24.5	34.5	32.6	39.5	45.1	43.8	50.8	60.8	62.1	63.3	62.7
82.5°	18.1	22.0	22.0	25.1	30.1	28.9	33.8	39.5	39.5	39.5	40.8
85°	11.3	12.5	10.0	13.2	16.9	16.3	18.8	21.3	22.0	22.0	20.7
87.5°	6.9	5.6	3.2	5.0	7.5	7.5	8.8	9.4	8.8	8.8	8.8
90°	12.6	8.7	4.9	8.7	12.6	13.6	21.3	31.6	36.7	32.6	24.5
92.5°	85.2	52.3	19.3	52.3	85.2	93.4	131.3	181.9	207.1	181.5	130.4
95°	166.9	106.6	46.5	106.6	166.9	182.0	323.1	511.3	605.4	540.3	410.0
97.5°	186.6	133.4	80.3	133.4	186.6	199.8	435.2	749.0	905.9	864.7	782.3
100°	202.8	154.7	106.5	154.7	202.8	214.9	476.0	824.2	998.4	1001.4	1007.4
102.5°	218.6	173.7	128.7	173.7	218.6	229.8	494.7	848.0	1024.5	1077.1	1182.0
105°	242.6	204.6	166.5	204.6	242.6	252.2	508.7	850.7	1021.6	1139.3	1374.6
107.5°	276.2	240.7	205.2	240.7	276.2	285.1	511.3	812.8	963.6	1127.7	1455.9
110°	295.4	263.4	231.3	263.4	295.4	303.4	507.4	779.3	915.2	1098.7	1465.6



TEST NUMBER: P935435

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	318.0	287.5	257.0	287.5	318.0	325.7	507.5	749.9	871.1	1058.9	1434.5
115°	352.1	323.9	295.6	323.9	352.1	359.1	512.2	716.3	818.3	999.2	1361.0
117.5°	385.2	359.6	334.0	359.6	385.2	391.5	521.8	695.3	782.1	945.3	1271.8
120°	404.4	380.3	356.2	380.3	404.4	410.4	529.5	688.2	767.6	916.8	1215.0
122.5°	426.6	402.3	378.0	402.3	426.6	432.7	540.6	684.5	756.5	890.8	1159.4
125°	455.7	433.5	411.4	433.5	455.7	461.2	555.6	681.4	744.3	858.4	1086.6
127.5°	483.1	460.8	438.5	460.8	483.1	488.8	570.5	679.6	734.1	832.1	1028.1
130°	501.2	477.1	453.0	477.1	501.2	507.2	581.6	680.7	730.3	817.5	991.9
132.5°	516.2	492.1	468.0	492.1	516.2	522.2	590.5	681.4	726.9	805.0	961.2
135°	534.1	512.2	490.3	512.2	534.1	539.6	600.1	680.7	721.1	786.6	917.3
137.5°	556.4	534.7	513.0	534.7	556.4	561.9	614.6	685.0	720.1	775.3	885.9
140°	571.9	551.9	531.8	551.9	571.9	576.9	623.5	685.7	716.7	764.5	860.0
142.5°	583.4	564.8	546.3	564.8	583.4	588.0	630.9	688.1	716.7	758.7	842.5
145°	600.9	584.8	568.7	584.8	600.9	604.9	640.6	688.1	711.9	746.2	814.8
147.5°	622.3	606.6	590.9	606.6	622.3	626.3	654.8	692.8	711.9	738.9	792.9
150°	633.8	619.6	605.4	619.6	633.8	637.4	662.2	695.3	711.9	734.7	780.3
152.5°	642.0	631.2	620.5	631.2	642.0	644.7	667.1	696.9	711.9	731.3	770.3
155°	658.6	650.6	642.7	650.6	658.6	660.6	677.7	700.5	711.9	727.4	758.3
157.5°	674.6	666.9	659.2	666.9	674.6	676.5	688.3	704.0	711.9	723.9	748.0
160°	682.3	676.3	670.3	676.3	682.3	683.8	693.2	705.6	711.9	722.2	742.8
162.5°	690.5	685.9	681.4	685.9	690.5	691.6	698.3	707.4	711.9	720.6	738.0
165°	701.7	697.6	693.5	697.6	701.7	702.7	705.8	709.8	711.9	718.1	730.6
167.5°	708.5	706.5	704.7	706.5	708.5	709.0	711.6	715.1	716.7	720.8	729.0
170°	715.8	713.8	711.9	713.8	715.8	716.3	716.5	716.6	716.7	720.8	729.0
172.5°	716.6	716.2	715.8	716.2	716.6	716.7	716.7	716.7	716.7	719.9	726.4
175°	721.1	721.1	721.1	721.1	721.1	721.1	719.6	717.7	716.7	718.8	722.8
177.5°	721.1	721.1	721.1	721.1	721.1	721.1	720.0	718.4	717.7	719.3	722.5
180°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1



TEST NUMBER: P935435

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6
2.5°	639.4	637.6	640.0	633.2	640.0	637.6	639.4	643.8	640.0	642.5	645.0
5°	561.0	557.9	547.9	539.7	547.9	557.9	561.0	574.2	580.5	591.8	606.8
7.5°	501.5	498.9	496.5	491.5	496.5	498.9	501.5	505.2	511.6	521.6	532.9
10°	488.3	488.9	492.7	492.1	492.7	488.9	488.3	487.1	485.2	487.1	494.0
12.5°	522.2	527.8	548.5	547.3	548.5	527.8	522.2	497.1	480.2	477.1	478.3
15°	561.0	562.9	567.3	567.9	567.3	562.9	561.0	551.0	500.3	478.3	471.4
17.5°	564.8	565.4	568.6	568.6	568.6	565.4	564.8	560.4	543.5	514.0	475.2
20°	561.7	562.9	569.2	570.5	569.2	562.9	561.7	556.1	546.6	536.0	506.5
22.5°	560.4	562.9	567.9	567.3	567.9	562.9	560.4	551.7	543.5	536.0	524.1
25°	554.2	554.2	554.7	555.4	554.7	554.2	554.2	547.3	530.9	529.0	522.2
27.5°	541.0	542.2	546.0	545.4	546.0	542.2	541.0	538.5	520.9	519.0	514.0
30°	529.0	527.8	524.7	522.2	524.7	527.8	529.0	525.3	507.7	502.8	504.0
32.5°	509.0	505.9	502.8	500.9	502.8	505.9	509.0	507.7	494.6	487.7	488.9
35°	485.2	485.9	485.2	483.3	485.2	485.9	485.2	486.4	478.3	472.0	471.4
37.5°	468.3	469.5	468.8	466.4	468.8	469.5	468.3	467.0	455.8	453.9	455.1
40°	450.7	451.4	450.7	448.8	450.7	451.4	450.7	448.2	432.6	433.1	437.5
42.5°	433.8	433.1	431.3	430.1	431.3	433.1	433.8	430.1	410.0	408.1	416.2
45°	414.4	415.0	411.2	409.3	411.2	415.0	414.4	411.8	391.2	386.1	391.8
47.5°	394.9	394.9	391.8	389.9	391.8	394.9	394.9	391.8	369.9	364.8	368.0
50°	374.3	373.6	369.2	368.6	369.2	373.6	374.3	372.4	349.2	344.8	344.8
52.5°	350.4	350.4	351.1	352.3	351.1	350.4	350.4	351.1	330.3	325.9	324.7
55°	329.8	330.3	334.7	336.0	334.7	330.3	329.8	329.8	310.9	306.5	304.1
57.5°	308.5	308.5	311.5	311.5	311.5	308.5	308.5	307.1	289.0	285.2	284.0
60°	284.0	285.2	287.7	287.1	287.7	285.2	284.0	282.7	267.0	264.5	260.1
62.5°	258.3	259.6	260.1	258.9	260.1	259.6	258.3	254.5	245.1	243.2	237.6
65°	231.3	232.6	233.2	231.9	233.2	232.6	231.3	229.5	222.6	219.4	214.4
67.5°	203.8	203.1	202.5	205.0	202.5	203.1	203.8	201.2	196.8	194.3	187.4
70°	175.5	175.5	174.9	176.2	174.9	175.5	175.5	173.7	171.1	169.3	163.0
72.5°	145.4	144.8	147.3	145.4	147.3	144.8	145.4	144.8	143.6	141.7	135.4
75°	116.0	117.2	116.0	117.9	116.0	117.2	116.0	116.6	116.0	114.7	110.3
77.5°	88.4	89.6	88.4	88.4	88.4	89.6	88.4	89.0	89.0	89.0	85.2
80°	62.7	62.1	62.1	61.4	62.1	62.1	62.7	62.7	63.3	62.1	60.8
82.5°	40.1	39.5	39.5	40.8	39.5	39.5	40.1	40.8	39.5	39.5	39.5
85°	22.0	22.5	21.3	21.3	21.3	22.5	22.0	20.7	22.0	22.0	21.3
87.5°	8.1	7.5	7.5	7.5	7.5	7.5	8.1	8.8	8.8	8.8	9.4
90°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	24.5	32.6	36.7	31.6
92.5°	92.0	88.3	73.7	59.1	73.7	88.3	92.0	130.4	181.5	207.1	181.9
95°	312.2	301.1	256.8	212.5	256.8	301.1	312.2	410.0	540.3	605.4	511.3
97.5°	720.6	699.5	615.2	530.9	615.2	699.5	720.6	782.3	864.7	905.9	749.0
100°	1011.9	986.8	886.4	785.9	886.4	986.8	1011.9	1007.4	1001.4	998.4	824.2
102.5°	1260.7	1239.2	1153.1	1067.2	1153.1	1239.2	1260.7	1182.0	1077.1	1024.5	848.0
105°	1551.1	1539.5	1493.3	1447.0	1493.3	1539.5	1551.1	1374.6	1139.3	1021.6	850.7
107.5°	1702.0	1704.8	1716.0	1727.2	1716.0	1704.8	1702.0	1455.9	1127.7	963.6	812.8
110°	1740.8	1752.9	1801.0	1849.1	1801.0	1752.9	1740.8	1465.6	1098.7	915.2	779.3



TEST NUMBER: P935435

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1716.1	1734.6	1808.6	1882.6	1808.6	1734.6	1716.1	1434.5	1058.9	871.1	749.9
115°	1632.4	1658.0	1760.6	1863.2	1760.6	1658.0	1632.4	1361.0	999.2	818.3	716.3
117.5°	1516.7	1545.1	1658.9	1772.7	1658.9	1545.1	1516.7	1271.8	945.3	782.1	695.3
120°	1438.8	1466.5	1576.9	1687.5	1576.9	1466.5	1438.8	1215.0	916.8	767.6	688.2
122.5°	1360.8	1388.1	1497.1	1606.2	1497.1	1388.1	1360.8	1159.4	890.8	756.5	684.5
125°	1257.7	1282.9	1383.3	1483.8	1383.3	1282.9	1257.7	1086.6	858.4	744.3	681.4
127.5°	1175.0	1196.2	1280.9	1365.7	1280.9	1196.2	1175.0	1028.1	832.1	734.1	679.6
130°	1122.8	1142.3	1220.6	1299.0	1220.6	1142.3	1122.8	991.9	817.5	730.3	680.7
132.5°	1078.3	1095.8	1165.9	1236.0	1165.9	1095.8	1078.3	961.2	805.0	726.9	681.4
135°	1015.4	1030.5	1090.9	1151.3	1090.9	1030.5	1015.4	917.3	786.6	721.1	680.7
137.5°	968.8	981.2	1030.7	1080.1	1030.7	981.2	968.8	885.9	775.3	720.1	685.0
140°	931.6	943.2	989.4	1035.7	989.4	943.2	931.6	860.0	764.5	716.7	685.7
142.5°	905.4	915.4	955.2	995.0	955.2	915.4	905.4	842.5	758.7	716.7	688.1
145°	866.3	873.9	904.0	934.1	904.0	873.9	866.3	814.8	746.2	711.9	688.1
147.5°	833.4	839.6	864.5	889.5	864.5	839.6	833.4	792.9	738.9	711.9	692.8
150°	814.5	819.6	839.8	860.0	839.8	819.6	814.5	780.3	734.7	711.9	695.3
152.5°	799.5	803.3	818.5	833.9	818.5	803.3	799.5	770.3	731.3	711.9	696.9
155°	781.6	784.1	794.2	804.3	794.2	784.1	781.6	758.3	727.4	711.9	700.5
157.5°	766.1	767.9	775.0	782.1	775.0	767.9	766.1	748.0	723.9	711.9	704.0
160°	758.3	759.4	763.5	767.6	763.5	759.4	758.3	742.8	722.2	711.9	705.6
162.5°	751.1	752.1	756.0	759.8	756.0	752.1	751.1	738.0	720.6	711.9	707.4
165°	739.9	740.9	745.1	749.2	745.1	740.9	739.9	730.6	718.1	711.9	709.8
167.5°	735.1	735.6	737.3	739.0	737.3	735.6	735.1	729.0	720.8	716.7	715.1
170°	735.1	735.1	735.1	735.1	735.1	735.1	735.1	729.0	720.8	716.7	716.6
172.5°	731.2	730.8	729.4	727.9	729.4	730.8	731.2	726.4	719.9	716.7	716.7
175°	725.9	725.9	725.9	725.9	725.9	725.9	725.9	722.8	718.8	716.7	717.7
177.5°	725.0	724.5	722.8	721.1	722.8	724.5	725.0	722.5	719.3	717.7	718.4
180°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	662.6	662.6	662.6	662.6	662.6
2.5°	654.5	657.6	659.4	662.0	668.2
5°	629.3	641.3	645.0	654.5	665.7
7.5°	574.2	610.5	620.6	643.2	660.7
10°	520.9	557.3	574.8	628.1	654.5
12.5°	494.0	515.3	527.2	601.8	645.7
15°	477.1	492.1	500.9	566.7	635.6
17.5°	463.9	474.6	480.8	532.2	621.9
20°	455.8	460.7	466.4	507.2	606.2
22.5°	450.1	447.0	451.4	489.6	584.8
25°	446.3	434.5	439.4	475.8	559.8
27.5°	449.5	423.1	425.0	463.2	533.4
30°	450.1	409.3	410.0	450.1	504.0
32.5°	445.7	394.9	395.6	433.8	470.8
35°	435.0	378.0	377.3	415.0	425.7
37.5°	420.6	359.9	359.9	394.3	376.1
40°	403.0	341.6	343.5	367.3	332.2
42.5°	381.7	322.2	324.7	331.6	299.7
45°	358.6	303.4	305.3	280.2	274.5
47.5°	332.8	284.0	284.6	232.6	266.4
50°	302.2	263.9	261.4	199.4	265.8
52.5°	275.2	242.0	234.4	180.5	241.3
55°	248.8	218.8	202.5	166.1	223.8
57.5°	225.6	188.7	173.0	149.2	220.0
60°	204.3	159.2	147.3	131.0	201.9
62.5°	186.8	137.3	134.8	118.5	183.0
65°	168.0	122.3	121.6	107.9	155.4
67.5°	149.8	112.2	111.6	97.8	118.5
70°	130.4	101.5	100.3	87.1	87.8
72.5°	110.3	89.6	88.4	78.3	72.7
75°	90.3	75.8	75.2	68.3	58.9
77.5°	70.9	60.2	61.4	55.1	43.3
80°	50.8	43.8	45.1	39.5	32.6
82.5°	33.8	28.9	30.1	25.1	22.0
85°	18.8	16.3	16.9	13.2	10.0
87.5°	8.8	7.5	7.5	5.0	3.2
90°	21.3	13.6	12.6	8.7	4.9
92.5°	131.3	93.4	85.2	52.3	19.3
95°	323.1	182.0	166.9	106.6	46.5
97.5°	435.2	199.8	186.6	133.4	80.3
100°	476.0	214.9	202.8	154.7	106.5
102.5°	494.7	229.8	218.6	173.7	128.7
105°	508.7	252.2	242.6	204.6	166.5
107.5°	511.3	285.1	276.2	240.7	205.2
110°	507.4	303.4	295.4	263.4	231.3



TEST NUMBER: P935435

CATALOG NUMBER: SQ4-FA-125U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	507.5	325.7	318.0	287.5	257.0
115°	512.2	359.1	352.1	323.9	295.6
117.5°	521.8	391.5	385.2	359.6	334.0
120°	529.5	410.4	404.4	380.3	356.2
122.5°	540.6	432.7	426.6	402.3	378.0
125°	555.6	461.2	455.7	433.5	411.4
127.5°	570.5	488.8	483.1	460.8	438.5
130°	581.6	507.2	501.2	477.1	453.0
132.5°	590.5	522.2	516.2	492.1	468.0
135°	600.1	539.6	534.1	512.2	490.3
137.5°	614.6	561.9	556.4	534.7	513.0
140°	623.5	576.9	571.9	551.9	531.8
142.5°	630.9	588.0	583.4	564.8	546.3
145°	640.6	604.9	600.9	584.8	568.7
147.5°	654.8	626.3	622.3	606.6	590.9
150°	662.2	637.4	633.8	619.6	605.4
152.5°	667.1	644.7	642.0	631.2	620.5
155°	677.7	660.6	658.6	650.6	642.7
157.5°	688.3	676.5	674.6	666.9	659.2
160°	693.2	683.8	682.3	676.3	670.3
162.5°	698.3	691.6	690.5	685.9	681.4
165°	705.8	702.7	701.7	697.6	693.5
167.5°	711.6	709.0	708.5	706.5	704.7
170°	716.5	716.3	715.8	713.8	711.9
172.5°	716.7	716.7	716.6	716.2	715.8
175°	719.6	721.1	721.1	721.1	721.1
177.5°	720.0	721.1	721.1	721.1	721.1
180°	721.1	721.1	721.1	721.1	721.1



TEST NUMBER: P935435
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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	8.45	9.13	9.58	10.26	11.83	11.25	11.93	12.38	13.06	14.62
	3H	8.91	9.53	10.05	10.66	12.24	12.57	13.18	13.71	14.31	15.90
	4H	9.09	9.68	10.24	10.81	12.40	13.00	13.58	14.15	14.71	16.30
	6H	9.20	9.74	10.36	10.88	12.47	13.26	13.80	14.42	14.94	16.54
	8H	9.20	9.71	10.36	10.86	12.45	13.33	13.84	14.49	14.99	16.58
	12H	9.17	9.65	10.33	10.79	12.41	13.36	13.84	14.52	14.99	16.60
4H	2H	9.45	10.03	10.61	11.17	12.76	11.63	12.22	12.79	13.35	14.94
	3H	10.46	10.95	11.62	12.11	13.71	13.11	13.60	14.28	14.76	16.36
	4H	10.73	11.18	11.90	12.32	13.94	13.63	14.07	14.79	15.22	16.84
	6H	10.84	11.23	12.02	12.40	14.01	13.97	14.36	15.15	15.53	17.14
	8H	10.85	11.20	12.02	12.37	13.99	14.07	14.43	15.24	15.59	17.22
	12H	10.81	11.13	11.99	12.30	13.93	14.12	14.44	15.30	15.61	17.24
8H	4H	11.16	11.52	12.33	12.68	14.31	13.74	14.10	14.91	15.26	16.88
	6H	11.42	11.71	12.61	12.92	14.54	14.16	14.45	15.35	15.66	17.28
	8H	11.46	11.72	12.65	12.90	14.54	14.30	14.56	15.50	15.74	17.39
	12H	11.44	11.66	12.63	12.84	14.51	14.39	14.62	15.59	15.79	17.47
12H	4H	11.16	11.48	12.35	12.66	14.29	13.69	14.02	14.88	15.19	16.82
	6H	11.48	11.73	12.67	12.91	14.56	14.16	14.41	15.35	15.59	17.24
	8H	11.53	11.76	12.73	12.94	14.61	14.30	14.53	15.50	15.71	17.38