

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: P933860

Luminaire Tested: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933860
REPORT IS A COMBINATION OF REPORTS P933674 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

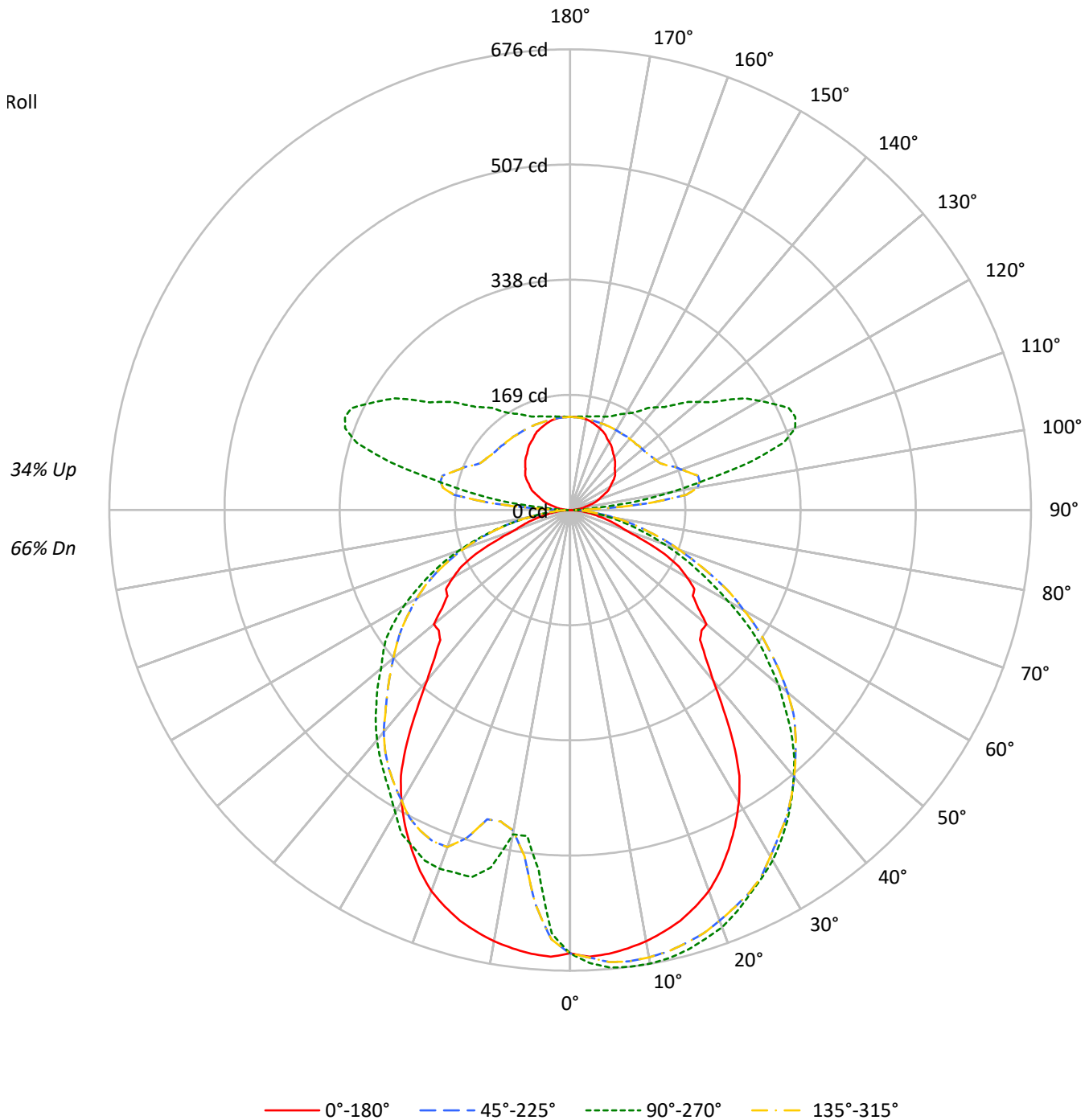
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2575.0 lumens
Efficiency: N/A
Efficacy: 117.0 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-Direct

Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P933860
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Luminous Intensity Polar Plot





TEST NUMBER: P933860

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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	70	70	70	66
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	60	60	60	55
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	50	50	50	46
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	43	43	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	37	37	37	34
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	32	32	32	29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	28	28	28	26
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	25	25	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	22	22	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	20	20	20	18
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

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

MAXIMUM LUMINANCE 45°-90°:

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	2.3
10°-20°	166.7	6.5
20°-30°	257.7	10.0
30°-40°	307.7	11.9
40°-50°	309.5	12.0
50°-60°	269.3	10.5
60°-70°	190.9	7.4
70°-80°	101.0	3.9
80°-90°	25.7	1.0
90°-100°	66.8	2.6
100°-110°	175.5	6.8
110°-120°	182.0	7.1
120°-130°	146.0	5.7
130°-140°	114.5	4.4
140°-150°	87.9	3.4
150°-160°	63.3	2.5
160°-170°	38.7	1.5
170°-180°	13.1	0.5
0°-30°	483.2	18.8
0°-40°	790.9	30.7
0°-60°	1369.6	53.2
0°-90°	1687.2	65.5
90°-120°	424.3	16.5
90°-150°	772.7	30.0
90°-180°	888.0	34.5
0°-180°	2575.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	651	651	651	651	651	
5°	654	674	654	530	654	62
15°	624	668	624	558	624	176
25°	550	623	550	545	550	252
35°	418	556	418	474	418	259
45°	270	458	270	402	270	216
55°	220	338	220	330	220	202
65°	153	204	153	228	153	146
75°	58	97	58	116	58	61
85°	10	25	10	21	10	13
90°	1	4	1	4	1	1
95°	9	40	9	40	9	10
105°	32	275	32	275	32	34
115°	56	354	56	354	56	55
125°	78	282	78	282	78	69
135°	93	219	93	219	93	72
145°	108	177	108	177	108	68
155°	122	153	122	153	122	56
165°	132	142	132	142	132	37
175°	137	138	137	138	137	13
180°	137	137	137	137	137	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	656.1	656.1	659.7	661.0	661.0	659.2	657.3	659.2	664.7	666.5	665.9
5°	653.6	658.5	665.3	666.5	667.8	667.2	665.9	667.2	673.3	674.5	675.1
7.5°	648.7	657.9	666.5	668.4	670.2	668.4	667.8	669.0	675.1	676.3	676.3
10°	642.6	655.4	665.3	666.5	668.4	666.5	666.5	669.0	675.1	676.3	677.0
12.5°	633.9	651.7	661.0	662.2	664.7	664.0	663.5	665.9	672.1	673.3	673.3
15°	624.0	645.0	653.6	654.9	659.2	657.9	657.9	660.4	667.2	669.0	668.4
17.5°	610.5	636.4	646.2	648.1	651.2	650.6	651.2	653.6	659.7	661.0	661.7
20°	595.1	624.7	636.4	638.3	641.3	641.3	641.3	644.4	650.6	653.0	653.0
22.5°	574.2	612.4	624.7	626.0	629.6	629.6	630.8	635.1	640.6	641.3	641.3
25°	549.6	598.8	609.3	613.0	616.7	618.5	620.4	622.8	624.7	624.0	624.7
27.5°	523.7	581.6	595.1	597.6	602.6	604.4	606.9	607.4	608.1	609.9	608.7
30°	494.8	557.6	577.9	580.4	588.3	589.6	587.1	588.3	591.5	592.6	593.9
32.5°	462.2	521.9	560.1	565.6	573.0	569.3	568.7	570.5	575.5	575.5	576.7
35°	417.9	494.2	543.5	548.4	553.9	549.6	552.1	552.6	555.8	557.6	556.9
37.5°	369.3	470.2	526.2	529.9	534.2	528.7	532.4	534.2	536.7	535.5	535.5
40°	326.1	432.7	505.9	508.4	512.1	507.8	511.4	512.7	513.9	512.7	512.1
42.5°	294.2	391.4	484.4	487.5	485.0	488.0	489.3	491.8	489.9	487.5	487.5
45°	269.5	380.4	461.0	464.6	461.0	465.9	467.7	467.7	462.2	461.0	460.3
47.5°	261.5	358.2	437.6	437.6	435.7	441.9	445.0	440.7	435.2	433.2	433.2
50°	261.0	333.6	405.6	403.1	411.8	419.1	416.1	411.8	407.5	400.7	400.7
52.5°	236.9	303.4	364.3	373.6	387.1	391.4	386.5	382.2	374.8	371.8	369.3
55°	219.7	272.0	326.8	345.2	359.5	365.0	355.7	351.4	340.4	338.5	337.3
57.5°	216.0	226.5	292.4	315.7	332.9	332.4	326.8	318.8	309.5	307.7	307.2
60°	198.2	163.7	255.4	283.1	300.9	299.1	294.2	286.8	278.2	277.0	275.8
62.5°	179.7	118.7	213.5	244.9	270.2	269.5	265.3	254.2	248.1	244.9	242.5
65°	152.6	99.7	152.1	203.7	240.1	241.3	232.0	224.0	217.2	213.5	212.9
67.5°	116.4	81.2	102.8	169.9	211.1	209.9	198.2	194.5	185.8	184.0	180.3
70°	86.2	54.1	71.4	137.8	182.8	179.7	170.5	166.2	158.2	153.9	151.4
72.5°	71.4	43.7	52.3	107.1	153.9	150.1	142.2	137.3	130.5	126.8	124.3
75°	57.8	46.2	40.0	79.4	124.9	122.5	115.1	110.1	104.6	99.7	100.3
77.5°	42.5	43.0	32.0	58.5	99.1	95.4	91.1	85.0	82.5	77.5	77.5
80°	32.0	33.9	24.0	40.0	71.4	71.4	67.7	63.4	59.1	56.6	56.6
82.5°	21.6	21.6	17.8	25.2	48.6	46.8	44.3	43.0	40.7	39.4	39.4
85°	9.8	12.3	11.1	15.4	26.4	27.7	27.7	26.4	25.9	24.6	25.2
87.5°	3.1	5.5	6.8	8.6	13.6	14.1	14.8	14.8	14.8	15.4	15.4
90°	0.9	1.7	2.4	2.6	4.0	6.0	7.0	6.2	4.7	3.5	3.5
92.5°	3.7	9.9	16.2	17.7	25.0	34.6	39.4	34.5	24.8	17.4	16.7
95°	8.8	20.3	31.8	34.6	61.4	97.1	115.0	102.6	77.8	59.3	57.2
97.5°	15.2	25.3	35.4	38.0	82.7	142.2	172.1	164.3	148.6	136.8	132.8
100°	20.2	29.4	38.5	40.8	90.4	156.6	189.6	190.1	191.3	192.2	187.4
102.5°	24.4	32.9	41.6	43.7	94.0	161.1	194.6	204.6	224.5	239.4	235.3
105°	31.7	38.9	46.1	47.9	96.6	161.5	194.0	216.4	261.1	294.6	292.4
107.5°	39.0	45.7	52.5	54.1	97.1	154.4	183.0	214.2	276.5	323.3	323.9
110°	44.0	50.0	56.1	57.6	96.4	148.0	173.8	208.7	278.3	330.6	332.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	48.8	54.6	60.4	61.9	96.4	142.4	165.5	201.2	272.5	326.0	329.5
115°	56.2	61.5	66.8	68.2	97.3	136.1	155.5	189.8	258.5	310.0	314.9
117.5°	63.4	68.3	73.1	74.3	99.1	132.1	148.6	179.6	241.5	288.1	293.5
120°	67.6	72.2	76.8	77.9	100.5	130.7	145.7	174.1	230.8	273.3	278.5
122.5°	71.8	76.4	80.9	82.1	102.6	129.9	143.6	169.1	220.2	258.4	263.6
125°	78.1	82.3	86.5	87.6	105.5	129.4	141.3	163.0	206.4	238.9	243.6
127.5°	83.2	87.5	91.8	92.9	108.4	129.0	139.4	158.0	195.3	223.2	227.2
130°	86.0	90.6	95.2	96.4	110.5	129.3	138.7	155.3	188.4	213.3	216.9
132.5°	88.9	93.5	98.1	99.2	112.1	129.4	138.0	152.9	182.5	204.8	208.1
135°	93.1	97.3	101.5	102.5	114.0	129.3	136.9	149.3	174.2	192.8	195.7
137.5°	97.5	101.6	105.7	106.7	116.7	130.0	136.7	147.2	168.2	184.0	186.4
140°	101.0	104.8	108.7	109.6	118.4	130.2	136.1	145.2	163.3	176.9	179.1
142.5°	103.8	107.3	110.8	111.7	119.9	130.7	136.1	144.1	160.0	172.0	173.9
145°	108.0	111.0	114.2	114.9	121.7	130.7	135.2	141.7	154.7	164.5	166.0
147.5°	112.2	115.2	118.2	118.9	124.3	131.6	135.2	140.3	150.6	158.3	159.5
150°	115.0	117.6	120.4	121.0	125.7	132.1	135.2	139.5	148.2	154.7	155.6
152.5°	117.8	119.9	121.9	122.4	126.6	132.3	135.2	138.8	146.3	151.9	152.6
155°	122.1	123.5	125.1	125.4	128.7	133.0	135.2	138.1	144.1	148.5	148.9
157.5°	125.2	126.6	128.1	128.5	130.7	133.7	135.2	137.5	142.1	145.5	145.8
160°	127.3	128.4	129.6	129.9	131.6	134.0	135.2	137.1	141.0	144.0	144.2
162.5°	129.4	130.2	131.1	131.3	132.6	134.4	135.2	136.8	140.1	142.6	142.8
165°	131.7	132.4	133.2	133.4	134.0	134.8	135.2	136.4	138.8	140.5	140.7
167.5°	133.8	134.2	134.5	134.6	135.1	135.7	136.1	136.8	138.4	139.6	139.7
170°	135.2	135.5	135.9	136.0	136.0	136.1	136.1	136.8	138.4	139.6	139.6
172.5°	135.9	136.0	136.1	136.1	136.1	136.1	136.1	136.7	137.9	138.8	138.8
175°	136.9	136.9	136.9	136.9	136.6	136.3	136.1	136.5	137.3	137.8	137.8
177.5°	136.9	136.9	136.9	136.9	136.7	136.5	136.3	136.6	137.2	137.7	137.6
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	667.2	665.3	667.2	665.9	666.5	664.7	659.2	657.3	659.2	661.0	661.0
5°	675.1	674.0	675.1	675.1	674.5	673.3	667.2	665.9	667.2	667.8	666.5
7.5°	677.6	675.8	677.6	676.3	676.3	675.1	669.0	667.8	668.4	670.2	668.4
10°	677.6	675.8	677.6	677.0	676.3	675.1	669.0	666.5	666.5	668.4	666.5
12.5°	674.5	673.3	674.5	673.3	673.3	672.1	665.9	663.5	664.0	664.7	662.2
15°	669.6	667.8	669.6	668.4	669.0	667.2	660.4	657.9	657.9	659.2	654.9
17.5°	662.2	659.7	662.2	661.7	661.0	659.7	653.6	651.2	650.6	651.2	648.1
20°	653.6	651.7	653.6	653.0	653.0	650.6	644.4	641.3	641.3	641.3	638.3
22.5°	640.1	638.3	640.1	641.3	641.3	640.6	635.1	630.8	629.6	629.6	626.0
25°	624.7	622.8	624.7	624.7	624.0	624.7	622.8	620.4	618.5	616.7	613.0
27.5°	609.9	608.7	609.9	608.7	609.9	608.1	607.4	606.9	604.4	602.6	597.6
30°	595.1	593.9	595.1	593.9	592.6	591.5	588.3	587.1	589.6	588.3	580.4
32.5°	576.7	575.5	576.7	576.7	575.5	575.5	570.5	568.7	569.3	573.0	565.6
35°	557.6	555.8	557.6	556.9	557.6	555.8	552.6	552.1	549.6	553.9	548.4
37.5°	535.5	533.6	535.5	535.5	535.5	536.7	534.2	532.4	528.7	534.2	529.9
40°	512.7	510.2	512.7	512.1	512.7	513.9	512.7	511.4	507.8	512.1	508.4
42.5°	486.8	486.2	486.8	487.5	487.5	489.9	491.8	489.3	488.0	485.0	487.5
45°	459.1	457.9	459.1	460.3	461.0	462.2	467.7	467.7	465.9	461.0	464.6
47.5°	429.6	426.5	429.6	433.2	433.2	435.2	440.7	445.0	441.9	435.7	437.6
50°	398.2	398.8	398.2	400.7	400.7	407.5	411.8	416.1	419.1	411.8	403.1
52.5°	367.4	366.8	367.4	369.3	371.8	374.8	382.2	386.5	391.4	387.1	373.6
55°	336.6	337.9	336.6	337.3	338.5	340.4	351.4	355.7	365.0	359.5	345.2
57.5°	305.9	304.0	305.9	307.2	307.7	309.5	318.8	326.8	332.4	332.9	315.7
60°	270.2	267.7	270.2	275.8	277.0	278.2	286.8	294.2	299.1	300.9	283.1
62.5°	238.8	234.5	238.8	242.5	244.9	248.1	254.2	265.3	269.5	270.2	244.9
65°	205.6	203.7	205.6	212.9	213.5	217.2	224.0	232.0	241.3	240.1	203.7
67.5°	175.4	175.4	175.4	180.3	184.0	185.8	194.5	198.2	209.9	211.1	169.9
70°	147.7	147.1	147.7	151.4	153.9	158.2	166.2	170.5	179.7	182.8	137.8
72.5°	121.2	120.6	121.2	124.3	126.8	130.5	137.3	142.2	150.1	153.9	107.1
75°	97.8	96.6	97.8	100.3	99.7	104.6	110.1	115.1	122.5	124.9	79.4
77.5°	75.1	75.1	75.1	77.5	77.5	82.5	85.0	91.1	95.4	99.1	58.5
80°	56.0	55.4	56.0	56.6	56.6	59.1	63.4	67.7	71.4	71.4	40.0
82.5°	39.4	38.2	39.4	39.4	39.4	40.7	43.0	44.3	46.8	48.6	25.2
85°	24.6	24.6	24.6	25.2	24.6	25.9	26.4	27.7	27.7	26.4	15.4
87.5°	16.0	15.4	16.0	15.4	15.4	14.8	14.8	14.8	14.1	13.6	8.6
90°	3.5	3.5	3.5	3.5	3.5	4.7	6.2	7.0	6.0	4.0	2.6
92.5°	13.9	11.2	13.9	16.7	17.4	24.8	34.5	39.4	34.6	25.0	17.7
95°	48.8	40.4	48.8	57.2	59.3	77.8	102.6	115.0	97.1	61.4	34.6
97.5°	116.8	100.9	116.8	132.8	136.8	148.6	164.3	172.1	142.2	82.7	38.0
100°	168.4	149.3	168.4	187.4	192.2	191.3	190.1	189.6	156.6	90.4	40.8
102.5°	219.0	202.6	219.0	235.3	239.4	224.5	204.6	194.6	161.1	94.0	43.7
105°	283.7	274.8	283.7	292.4	294.6	261.1	216.4	194.0	161.5	96.6	47.9
107.5°	326.0	328.1	326.0	323.9	323.3	276.5	214.2	183.0	154.4	97.1	54.1
110°	342.0	351.2	342.0	332.9	330.6	278.3	208.7	173.8	148.0	96.4	57.6



TEST NUMBER: P933860

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	343.5	357.5	343.5	329.5	326.0	272.5	201.2	165.5	142.4	96.4	61.9
115°	334.4	353.9	334.4	314.9	310.0	258.5	189.8	155.5	136.1	97.3	68.2
117.5°	315.0	336.7	315.0	293.5	288.1	241.5	179.6	148.6	132.1	99.1	74.3
120°	299.5	320.5	299.5	278.5	273.3	230.8	174.1	145.7	130.7	100.5	77.9
122.5°	284.3	305.0	284.3	263.6	258.4	220.2	169.1	143.6	129.9	102.6	82.1
125°	262.7	281.8	262.7	243.6	238.9	206.4	163.0	141.3	129.4	105.5	87.6
127.5°	243.3	259.3	243.3	227.2	223.2	195.3	158.0	139.4	129.0	108.4	92.9
130°	231.8	246.7	231.8	216.9	213.3	188.4	155.3	138.7	129.3	110.5	96.4
132.5°	221.4	234.7	221.4	208.1	204.8	182.5	152.9	138.0	129.4	112.1	99.2
135°	207.2	218.7	207.2	195.7	192.8	174.2	149.3	136.9	129.3	114.0	102.5
137.5°	195.7	205.2	195.7	186.4	184.0	168.2	147.2	136.7	130.0	116.7	106.7
140°	187.9	196.7	187.9	179.1	176.9	163.3	145.2	136.1	130.2	118.4	109.6
142.5°	181.4	189.0	181.4	173.9	172.0	160.0	144.1	136.1	130.7	119.9	111.7
145°	171.7	177.4	171.7	166.0	164.5	154.7	141.7	135.2	130.7	121.7	114.9
147.5°	164.2	168.9	164.2	159.5	158.3	150.6	140.3	135.2	131.6	124.3	118.9
150°	159.5	163.3	159.5	155.6	154.7	148.2	139.5	135.2	132.1	125.7	121.0
152.5°	155.5	158.4	155.5	152.6	151.9	146.3	138.8	135.2	132.3	126.6	122.4
155°	150.9	152.8	150.9	148.9	148.5	144.1	138.1	135.2	133.0	128.7	125.4
157.5°	147.2	148.6	147.2	145.8	145.5	142.1	137.5	135.2	133.7	130.7	128.5
160°	145.0	145.7	145.0	144.2	144.0	141.0	137.1	135.2	134.0	131.6	129.9
162.5°	143.5	144.3	143.5	142.8	142.6	140.1	136.8	135.2	134.4	132.6	131.3
165°	141.5	142.2	141.5	140.7	140.5	138.8	136.4	135.2	134.8	134.0	133.4
167.5°	139.9	140.3	139.9	139.7	139.6	138.4	136.8	136.1	135.7	135.1	134.6
170°	139.6	139.6	139.6	139.6	139.6	138.4	136.8	136.1	136.1	136.0	136.0
172.5°	138.5	138.2	138.5	138.8	138.8	137.9	136.7	136.1	136.1	136.1	136.1
175°	137.8	137.8	137.8	137.8	137.8	137.3	136.5	136.1	136.3	136.6	136.9
177.5°	137.3	136.9	137.3	137.6	137.7	137.2	136.6	136.3	136.5	136.7	136.9
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P933860

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	659.7	656.1	656.1	649.9	647.4	645.6	642.6	633.3	630.8	628.3	632.1
5°	665.3	658.5	653.6	642.6	633.3	629.6	617.9	595.8	581.0	569.9	563.7
7.5°	666.5	657.9	648.7	631.5	609.3	599.4	563.7	523.2	512.1	502.3	496.0
10°	665.3	655.4	642.6	616.7	564.4	547.1	511.4	485.0	478.2	476.4	478.2
12.5°	661.0	651.7	633.9	590.8	517.6	505.9	485.0	469.6	468.4	471.4	488.0
15°	653.6	645.0	624.0	556.4	491.8	483.2	468.4	462.8	469.6	491.2	541.0
17.5°	646.2	636.4	610.5	522.5	472.1	465.9	455.5	466.6	504.6	533.6	550.2
20°	636.4	624.7	595.1	497.9	457.9	452.3	447.5	497.3	526.2	536.7	545.9
22.5°	624.7	612.4	574.2	480.7	443.2	438.8	441.9	514.6	526.2	533.6	541.6
25°	609.3	598.8	549.6	467.1	431.4	426.5	438.2	512.7	519.4	521.3	537.3
27.5°	595.1	581.6	523.7	454.8	417.3	415.4	441.3	504.6	509.6	511.4	528.7
30°	577.9	557.6	494.8	441.9	402.5	401.9	441.9	494.8	493.6	498.5	515.7
32.5°	560.1	521.9	462.2	425.9	388.4	387.7	437.6	480.0	478.9	485.6	498.5
35°	543.5	494.2	417.9	407.5	370.5	371.1	427.1	462.8	463.4	469.6	477.6
37.5°	526.2	470.2	369.3	387.1	353.3	353.3	413.0	446.8	445.6	447.5	458.5
40°	505.9	432.7	326.1	360.7	337.3	335.4	395.7	429.6	425.3	424.7	440.0
42.5°	484.4	391.4	294.2	325.6	318.8	316.3	374.8	408.6	400.7	402.5	422.2
45°	461.0	380.4	269.5	275.1	299.7	297.9	352.0	384.7	379.1	384.1	404.3
47.5°	437.6	358.2	261.5	228.3	279.4	278.8	326.8	361.3	358.2	363.1	384.7
50°	405.6	333.6	261.0	195.7	256.7	259.1	296.7	338.5	338.5	342.9	365.6
52.5°	364.3	303.4	236.9	177.2	230.2	237.6	270.2	318.8	320.0	324.3	344.7
55°	326.8	272.0	219.7	163.1	198.8	214.8	244.3	298.5	300.9	305.2	323.8
57.5°	292.4	226.5	216.0	146.5	169.9	185.3	221.5	278.8	280.0	283.8	301.6
60°	255.4	163.7	198.2	128.7	144.6	156.3	200.6	255.4	259.7	262.2	277.6
62.5°	213.5	118.7	179.7	116.4	132.3	134.8	183.4	233.3	238.8	240.6	249.9
65°	152.1	99.7	152.6	105.9	119.4	120.0	164.9	210.5	215.4	218.5	225.3
67.5°	102.8	81.2	116.4	96.0	109.6	110.1	147.1	184.0	190.8	193.3	197.6
70°	71.4	54.1	86.2	85.5	98.5	99.7	128.0	160.0	166.2	168.0	170.5
72.5°	52.3	43.7	71.4	76.9	86.8	88.0	108.3	133.0	139.1	141.0	142.2
75°	40.0	46.2	57.8	67.1	73.9	74.4	88.6	108.3	112.6	113.9	114.4
77.5°	32.0	43.0	42.5	54.1	60.3	59.1	69.6	83.7	87.4	87.4	87.4
80°	24.0	33.9	32.0	38.8	44.3	43.0	49.8	59.7	60.9	62.1	61.6
82.5°	17.8	21.6	21.6	24.6	29.5	28.4	33.2	38.8	38.8	38.8	40.0
85°	11.1	12.3	9.8	12.9	16.6	16.0	18.4	20.9	21.6	21.6	20.3
87.5°	6.8	5.5	3.1	5.0	7.3	7.3	8.6	9.3	8.6	8.6	8.6
90°	2.4	1.7	0.9	1.7	2.4	2.6	4.0	6.0	7.0	6.2	4.7
92.5°	16.2	9.9	3.7	9.9	16.2	17.7	25.0	34.6	39.4	34.5	24.8
95°	31.8	20.3	8.8	20.3	31.8	34.6	61.4	97.1	115.0	102.6	77.8
97.5°	35.4	25.3	15.2	25.3	35.4	38.0	82.7	142.2	172.1	164.3	148.6
100°	38.5	29.4	20.2	29.4	38.5	40.8	90.4	156.6	189.6	190.1	191.3
102.5°	41.6	32.9	24.4	32.9	41.6	43.7	94.0	161.1	194.6	204.6	224.5
105°	46.1	38.9	31.7	38.9	46.1	47.9	96.6	161.5	194.0	216.4	261.1
107.5°	52.5	45.7	39.0	45.7	52.5	54.1	97.1	154.4	183.0	214.2	276.5
110°	56.1	50.0	44.0	50.0	56.1	57.6	96.4	148.0	173.8	208.7	278.3



TEST NUMBER: P933860

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	60.4	54.6	48.8	54.6	60.4	61.9	96.4	142.4	165.5	201.2	272.5
115°	66.8	61.5	56.2	61.5	66.8	68.2	97.3	136.1	155.5	189.8	258.5
117.5°	73.1	68.3	63.4	68.3	73.1	74.3	99.1	132.1	148.6	179.6	241.5
120°	76.8	72.2	67.6	72.2	76.8	77.9	100.5	130.7	145.7	174.1	230.8
122.5°	80.9	76.4	71.8	76.4	80.9	82.1	102.6	129.9	143.6	169.1	220.2
125°	86.5	82.3	78.1	82.3	86.5	87.6	105.5	129.4	141.3	163.0	206.4
127.5°	91.8	87.5	83.2	87.5	91.8	92.9	108.4	129.0	139.4	158.0	195.3
130°	95.2	90.6	86.0	90.6	95.2	96.4	110.5	129.3	138.7	155.3	188.4
132.5°	98.1	93.5	88.9	93.5	98.1	99.2	112.1	129.4	138.0	152.9	182.5
135°	101.5	97.3	93.1	97.3	101.5	102.5	114.0	129.3	136.9	149.3	174.2
137.5°	105.7	101.6	97.5	101.6	105.7	106.7	116.7	130.0	136.7	147.2	168.2
140°	108.7	104.8	101.0	104.8	108.7	109.6	118.4	130.2	136.1	145.2	163.3
142.5°	110.8	107.3	103.8	107.3	110.8	111.7	119.9	130.7	136.1	144.1	160.0
145°	114.2	111.0	108.0	111.0	114.2	114.9	121.7	130.7	135.2	141.7	154.7
147.5°	118.2	115.2	112.2	115.2	118.2	118.9	124.3	131.6	135.2	140.3	150.6
150°	120.4	117.6	115.0	117.6	120.4	121.0	125.7	132.1	135.2	139.5	148.2
152.5°	121.9	119.9	117.8	119.9	121.9	122.4	126.6	132.3	135.2	138.8	146.3
155°	125.1	123.5	122.1	123.5	125.1	125.4	128.7	133.0	135.2	138.1	144.1
157.5°	128.1	126.6	125.2	126.6	128.1	128.5	130.7	133.7	135.2	137.5	142.1
160°	129.6	128.4	127.3	128.4	129.6	129.9	131.6	134.0	135.2	137.1	141.0
162.5°	131.1	130.2	129.4	130.2	131.1	131.3	132.6	134.4	135.2	136.8	140.1
165°	133.2	132.4	131.7	132.4	133.2	133.4	134.0	134.8	135.2	136.4	138.8
167.5°	134.5	134.2	133.8	134.2	134.5	134.6	135.1	135.7	136.1	136.8	138.4
170°	135.9	135.5	135.2	135.5	135.9	136.0	136.0	136.1	136.1	136.8	138.4
172.5°	136.1	136.0	135.9	136.0	136.1	136.1	136.1	136.1	136.1	136.7	137.9
175°	136.9	136.9	136.9	136.9	136.9	136.9	136.6	136.3	136.1	136.5	137.3
177.5°	136.9	136.9	136.9	136.9	136.9	136.9	136.7	136.5	136.3	136.6	137.2
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P933860

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	627.8	626.0	628.3	621.6	628.3	626.0	627.8	632.1	628.3	630.8	633.3
5°	550.8	547.8	538.0	529.9	538.0	547.8	550.8	563.7	569.9	581.0	595.8
7.5°	492.3	489.9	487.5	482.5	487.5	489.9	492.3	496.0	502.3	512.1	523.2
10°	479.4	480.0	483.7	483.2	483.7	480.0	479.4	478.2	476.4	478.2	485.0
12.5°	512.7	518.2	538.5	537.3	538.5	518.2	512.7	488.0	471.4	468.4	469.6
15°	550.8	552.6	556.9	557.6	556.9	552.6	550.8	541.0	491.2	469.6	462.8
17.5°	554.6	555.1	558.2	558.2	558.2	555.1	554.6	550.2	533.6	504.6	466.6
20°	551.4	552.6	558.9	560.1	558.9	552.6	551.4	545.9	536.7	526.2	497.3
22.5°	550.2	552.6	557.6	556.9	557.6	552.6	550.2	541.6	533.6	526.2	514.6
25°	544.1	544.1	544.7	545.3	544.7	544.1	544.1	537.3	521.3	519.4	512.7
27.5°	531.2	532.4	536.0	535.5	536.0	532.4	531.2	528.7	511.4	509.6	504.6
30°	519.4	518.2	515.1	512.7	515.1	518.2	519.4	515.7	498.5	493.6	494.8
32.5°	499.8	496.7	493.6	491.8	493.6	496.7	499.8	498.5	485.6	478.9	480.0
35°	476.4	477.0	476.4	474.5	476.4	477.0	476.4	477.6	469.6	463.4	462.8
37.5°	459.8	461.0	460.3	457.9	460.3	461.0	459.8	458.5	447.5	445.6	446.8
40°	442.5	443.2	442.5	440.7	442.5	443.2	442.5	440.0	424.7	425.3	429.6
42.5°	425.9	425.3	423.4	422.2	423.4	425.3	425.9	422.2	402.5	400.7	408.6
45°	406.8	407.5	403.7	401.9	403.7	407.5	406.8	404.3	384.1	379.1	384.7
47.5°	387.7	387.7	384.7	382.8	384.7	387.7	387.7	384.7	363.1	358.2	361.3
50°	367.4	366.8	362.5	361.8	362.5	366.8	367.4	365.6	342.9	338.5	338.5
52.5°	344.0	344.0	344.7	345.9	344.7	344.0	344.0	344.7	324.3	320.0	318.8
55°	323.8	324.3	328.6	329.9	328.6	324.3	323.8	323.8	305.2	300.9	298.5
57.5°	302.8	302.8	305.9	305.9	305.9	302.8	302.8	301.6	283.8	280.0	278.8
60°	278.8	280.0	282.5	281.9	282.5	280.0	278.8	277.6	262.2	259.7	255.4
62.5°	253.6	254.8	255.4	254.2	255.4	254.8	253.6	249.9	240.6	238.8	233.3
65°	227.1	228.3	229.0	227.7	229.0	228.3	227.1	225.3	218.5	215.4	210.5
67.5°	200.1	199.4	198.8	201.3	198.8	199.4	200.1	197.6	193.3	190.8	184.0
70°	172.3	172.3	171.7	173.0	171.7	172.3	172.3	170.5	168.0	166.2	160.0
72.5°	142.8	142.2	144.6	142.8	144.6	142.2	142.8	142.2	141.0	139.1	133.0
75°	113.9	115.1	113.9	115.7	113.9	115.1	113.9	114.4	113.9	112.6	108.3
77.5°	86.8	88.0	86.8	86.8	86.8	88.0	86.8	87.4	87.4	87.4	83.7
80°	61.6	60.9	60.9	60.3	60.9	60.9	61.6	61.6	62.1	60.9	59.7
82.5°	39.4	38.8	38.8	40.0	38.8	38.8	39.4	40.0	38.8	38.8	38.8
85°	21.6	22.1	20.9	20.9	20.9	22.1	21.6	20.3	21.6	21.6	20.9
87.5°	8.0	7.3	7.3	7.3	7.3	7.3	8.0	8.6	8.6	8.6	9.3
90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.7	6.2	7.0	6.0
92.5°	17.4	16.7	13.9	11.2	13.9	16.7	17.4	24.8	34.5	39.4	34.6
95°	59.3	57.2	48.8	40.4	48.8	57.2	59.3	77.8	102.6	115.0	97.1
97.5°	136.8	132.8	116.8	100.9	116.8	132.8	136.8	148.6	164.3	172.1	142.2
100°	192.2	187.4	168.4	149.3	168.4	187.4	192.2	191.3	190.1	189.6	156.6
102.5°	239.4	235.3	219.0	202.6	219.0	235.3	239.4	224.5	204.6	194.6	161.1
105°	294.6	292.4	283.7	274.8	283.7	292.4	294.6	261.1	216.4	194.0	161.5
107.5°	323.3	323.9	326.0	328.1	326.0	323.9	323.3	276.5	214.2	183.0	154.4
110°	330.6	332.9	342.0	351.2	342.0	332.9	330.6	278.3	208.7	173.8	148.0



TEST NUMBER: P933860

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	326.0	329.5	343.5	357.5	343.5	329.5	326.0	272.5	201.2	165.5	142.4
115°	310.0	314.9	334.4	353.9	334.4	314.9	310.0	258.5	189.8	155.5	136.1
117.5°	288.1	293.5	315.0	336.7	315.0	293.5	288.1	241.5	179.6	148.6	132.1
120°	273.3	278.5	299.5	320.5	299.5	278.5	273.3	230.8	174.1	145.7	130.7
122.5°	258.4	263.6	284.3	305.0	284.3	263.6	258.4	220.2	169.1	143.6	129.9
125°	238.9	243.6	262.7	281.8	262.7	243.6	238.9	206.4	163.0	141.3	129.4
127.5°	223.2	227.2	243.3	259.3	243.3	227.2	223.2	195.3	158.0	139.4	129.0
130°	213.3	216.9	231.8	246.7	231.8	216.9	213.3	188.4	155.3	138.7	129.3
132.5°	204.8	208.1	221.4	234.7	221.4	208.1	204.8	182.5	152.9	138.0	129.4
135°	192.8	195.7	207.2	218.7	207.2	195.7	192.8	174.2	149.3	136.9	129.3
137.5°	184.0	186.4	195.7	205.2	195.7	186.4	184.0	168.2	147.2	136.7	130.0
140°	176.9	179.1	187.9	196.7	187.9	179.1	176.9	163.3	145.2	136.1	130.2
142.5°	172.0	173.9	181.4	189.0	181.4	173.9	172.0	160.0	144.1	136.1	130.7
145°	164.5	166.0	171.7	177.4	171.7	166.0	164.5	154.7	141.7	135.2	130.7
147.5°	158.3	159.5	164.2	168.9	164.2	159.5	158.3	150.6	140.3	135.2	131.6
150°	154.7	155.6	159.5	163.3	159.5	155.6	154.7	148.2	139.5	135.2	132.1
152.5°	151.9	152.6	155.5	158.4	155.5	152.6	151.9	146.3	138.8	135.2	132.3
155°	148.5	148.9	150.9	152.8	150.9	148.9	148.5	144.1	138.1	135.2	133.0
157.5°	145.5	145.8	147.2	148.6	147.2	145.8	145.5	142.1	137.5	135.2	133.7
160°	144.0	144.2	145.0	145.7	145.0	144.2	144.0	141.0	137.1	135.2	134.0
162.5°	142.6	142.8	143.5	144.3	143.5	142.8	142.6	140.1	136.8	135.2	134.4
165°	140.5	140.7	141.5	142.2	141.5	140.7	140.5	138.8	136.4	135.2	134.8
167.5°	139.6	139.7	139.9	140.3	139.9	139.7	139.6	138.4	136.8	136.1	135.7
170°	139.6	139.6	139.6	139.6	139.6	139.6	139.6	138.4	136.8	136.1	136.1
172.5°	138.8	138.8	138.5	138.2	138.5	138.8	138.8	137.9	136.7	136.1	136.1
175°	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.3	136.5	136.1	136.3
177.5°	137.7	137.6	137.3	136.9	137.3	137.6	137.7	137.2	136.6	136.3	136.5
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P933860

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	650.6	650.6	650.6	650.6	650.6
2.5°	642.6	645.6	647.4	649.9	656.1
5°	617.9	629.6	633.3	642.6	653.6
7.5°	563.7	599.4	609.3	631.5	648.7
10°	511.4	547.1	564.4	616.7	642.6
12.5°	485.0	505.9	517.6	590.8	633.9
15°	468.4	483.2	491.8	556.4	624.0
17.5°	455.5	465.9	472.1	522.5	610.5
20°	447.5	452.3	457.9	497.9	595.1
22.5°	441.9	438.8	443.2	480.7	574.2
25°	438.2	426.5	431.4	467.1	549.6
27.5°	441.3	415.4	417.3	454.8	523.7
30°	441.9	401.9	402.5	441.9	494.8
32.5°	437.6	387.7	388.4	425.9	462.2
35°	427.1	371.1	370.5	407.5	417.9
37.5°	413.0	353.3	353.3	387.1	369.3
40°	395.7	335.4	337.3	360.7	326.1
42.5°	374.8	316.3	318.8	325.6	294.2
45°	352.0	297.9	299.7	275.1	269.5
47.5°	326.8	278.8	279.4	228.3	261.5
50°	296.7	259.1	256.7	195.7	261.0
52.5°	270.2	237.6	230.2	177.2	236.9
55°	244.3	214.8	198.8	163.1	219.7
57.5°	221.5	185.3	169.9	146.5	216.0
60°	200.6	156.3	144.6	128.7	198.2
62.5°	183.4	134.8	132.3	116.4	179.7
65°	164.9	120.0	119.4	105.9	152.6
67.5°	147.1	110.1	109.6	96.0	116.4
70°	128.0	99.7	98.5	85.5	86.2
72.5°	108.3	88.0	86.8	76.9	71.4
75°	88.6	74.4	73.9	67.1	57.8
77.5°	69.6	59.1	60.3	54.1	42.5
80°	49.8	43.0	44.3	38.8	32.0
82.5°	33.2	28.4	29.5	24.6	21.6
85°	18.4	16.0	16.6	12.9	9.8
87.5°	8.6	7.3	7.3	5.0	3.1
90°	4.0	2.6	2.4	1.7	0.9
92.5°	25.0	17.7	16.2	9.9	3.7
95°	61.4	34.6	31.8	20.3	8.8
97.5°	82.7	38.0	35.4	25.3	15.2
100°	90.4	40.8	38.5	29.4	20.2
102.5°	94.0	43.7	41.6	32.9	24.4
105°	96.6	47.9	46.1	38.9	31.7
107.5°	97.1	54.1	52.5	45.7	39.0
110°	96.4	57.6	56.1	50.0	44.0



TEST NUMBER: P933860

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	96.4	61.9	60.4	54.6	48.8
115°	97.3	68.2	66.8	61.5	56.2
117.5°	99.1	74.3	73.1	68.3	63.4
120°	100.5	77.9	76.8	72.2	67.6
122.5°	102.6	82.1	80.9	76.4	71.8
125°	105.5	87.6	86.5	82.3	78.1
127.5°	108.4	92.9	91.8	87.5	83.2
130°	110.5	96.4	95.2	90.6	86.0
132.5°	112.1	99.2	98.1	93.5	88.9
135°	114.0	102.5	101.5	97.3	93.1
137.5°	116.7	106.7	105.7	101.6	97.5
140°	118.4	109.6	108.7	104.8	101.0
142.5°	119.9	111.7	110.8	107.3	103.8
145°	121.7	114.9	114.2	111.0	108.0
147.5°	124.3	118.9	118.2	115.2	112.2
150°	125.7	121.0	120.4	117.6	115.0
152.5°	126.6	122.4	121.9	119.9	117.8
155°	128.7	125.4	125.1	123.5	122.1
157.5°	130.7	128.5	128.1	126.6	125.2
160°	131.6	129.9	129.6	128.4	127.3
162.5°	132.6	131.3	131.1	130.2	129.4
165°	134.0	133.4	133.2	132.4	131.7
167.5°	135.1	134.6	134.5	134.2	133.8
170°	136.0	136.0	135.9	135.5	135.2
172.5°	136.1	136.1	136.1	136.0	135.9
175°	136.6	136.9	136.9	136.9	136.9
177.5°	136.7	136.9	136.9	136.9	136.9
180°	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P933860
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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	12.36	13.38	13.17	14.22	15.25	15.16	16.18	15.97	17.01	18.05
	3H	12.85	13.77	13.68	14.61	15.67	16.51	17.42	17.33	18.27	19.33
	4H	13.05	13.91	13.89	14.77	15.84	16.95	17.82	17.79	18.67	19.74
	6H	13.18	13.97	14.03	14.83	15.92	17.24	18.03	18.09	18.89	19.98
	8H	13.18	13.94	14.05	14.82	15.90	17.31	18.07	18.17	18.95	20.03
	12H	13.16	13.88	14.03	14.75	15.86	17.35	18.08	18.22	18.95	20.06
4H	2H	13.41	14.27	14.25	15.12	16.19	15.59	16.45	16.44	17.31	18.38
	3H	14.45	15.17	15.30	16.05	17.14	17.10	17.82	17.96	18.70	19.79
	4H	14.73	15.39	15.60	16.27	17.38	17.63	18.28	18.50	19.17	20.28
	6H	14.86	15.43	15.75	16.34	17.45	17.99	18.56	18.88	19.47	20.58
	8H	14.87	15.40	15.76	16.30	17.43	18.10	18.63	18.99	19.53	20.66
	12H	14.85	15.33	15.76	16.24	17.38	18.16	18.64	19.07	19.56	20.69
8H	4H	15.19	15.72	16.08	16.62	17.75	17.77	18.30	18.66	19.20	20.32
	6H	15.46	15.90	16.38	16.84	17.97	18.20	18.64	19.12	19.58	20.71
	8H	15.50	15.89	16.43	16.83	17.97	18.35	18.74	19.28	19.67	20.82
	12H	15.49	15.84	16.42	16.76	17.96	18.45	18.79	19.38	19.72	20.91
12H	4H	15.20	15.68	16.11	16.60	17.73	17.74	18.22	18.65	19.13	20.27
	6H	15.52	15.91	16.45	16.84	17.99	18.20	18.59	19.13	19.52	20.67
	8H	15.59	15.94	16.52	16.86	18.06	18.36	18.71	19.29	19.63	20.83