

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: P933836

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

**Test Information**

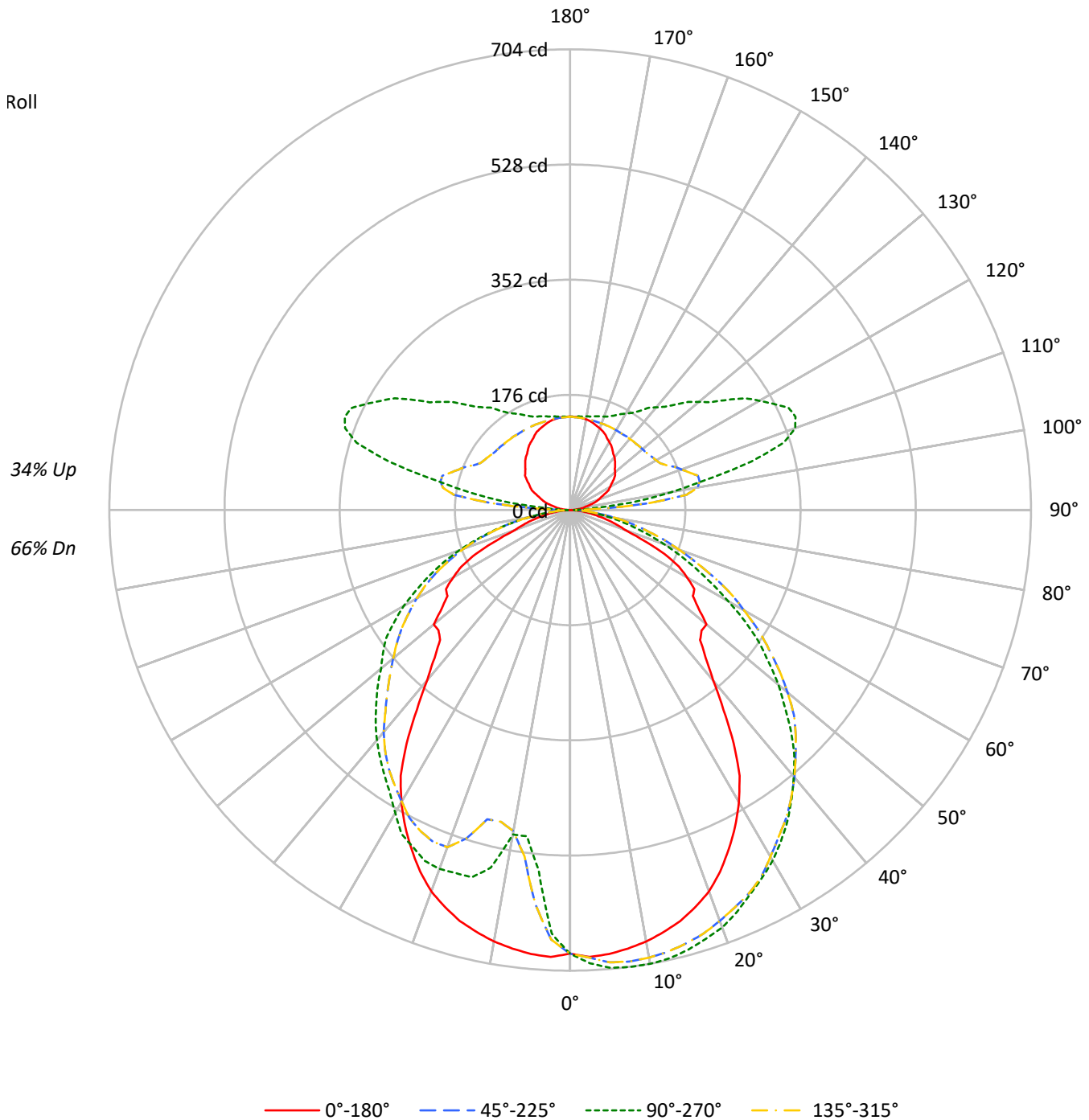
Test Method: LM-79-2019  
Report Number: P933836  
REPORT IS A COMBINATION OF REPORTS P933674 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-6500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2683.0 lumens  
Efficiency: N/A  
Efficacy: 122.0 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: P933836  
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### Luminous Intensity Polar Plot





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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6289	6289	6289	6289
5°	6329	6349	6329	4992
10°	6281	6254	6281	4471
15°	6205	6119	6205	5109
20°	6068	5958	6068	5120
25°	5796	5724	5796	5012
30°	5446	5529	5446	4773
35°	4848	5284	4848	4511
40°	4031	4994	4031	4314
45°	3595	4656	3595	4086
50°	3812	4252	3812	3857
55°	3575	3817	3575	3727
60°	3673	3241	3673	3412
65°	3313	2680	3313	2994
70°	2280	2136	2280	2510
75°	1974	1579	1974	1891
80°	1563	1045	1563	1135
85°	845	552	845	470

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5522 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.2	2.3
10°-20°	173.7	6.5
20°-30°	268.5	10.0
30°-40°	320.6	11.9
40°-50°	322.5	12.0
50°-60°	280.6	10.5
60°-70°	198.9	7.4
70°-80°	105.3	3.9
80°-90°	26.8	1.0
90°-100°	69.6	2.6
100°-110°	182.9	6.8
110°-120°	189.6	7.1
120°-130°	152.1	5.7
130°-140°	119.3	4.4
140°-150°	91.6	3.4
150°-160°	66.0	2.5
160°-170°	40.4	1.5
170°-180°	13.6	0.5
0°-30°	503.5	18.8
0°-40°	824.0	30.7
0°-60°	1427.1	53.2
0°-90°	1758.0	65.5
90°-120°	442.1	16.5
90°-150°	805.1	30.0
90°-180°	925.0	34.5
0°-180°	2683.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	678	678	678	678	678	
5°	681	702	681	552	681	65
15°	650	696	650	581	650	183
25°	573	649	573	568	573	263
35°	436	579	436	494	436	269
45°	281	477	281	419	281	225
55°	229	352	229	344	229	210
65°	159	212	159	237	159	152
75°	60	101	60	121	60	63
85°	10	26	10	22	10	14
90°	1	4	1	4	1	1
95°	9	42	9	42	9	10
105°	33	286	33	286	33	35
115°	58	369	58	369	58	58
125°	81	294	81	294	81	72
135°	97	228	97	228	97	75
145°	112	185	112	185	112	70
155°	127	159	127	159	127	58
165°	137	148	137	148	137	39
175°	143	144	143	144	143	14
180°	143	143	143	143	143	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	683.6	683.6	687.4	688.7	688.7	686.8	684.9	686.8	692.6	694.5	693.8
5°	681.0	686.2	693.2	694.5	695.8	695.2	693.8	695.2	701.6	702.8	703.5
7.5°	675.9	685.5	694.5	696.4	698.3	696.4	695.8	697.1	703.5	704.7	704.7
10°	669.5	682.9	693.2	694.5	696.4	694.5	694.5	697.1	703.5	704.7	705.4
12.5°	660.5	679.1	688.7	690.0	692.6	691.9	691.3	693.8	700.3	701.6	701.6
15°	650.2	672.0	681.0	682.3	686.8	685.5	685.5	688.1	695.2	697.1	696.4
17.5°	636.2	663.1	673.4	675.3	678.5	677.8	678.5	681.0	687.4	688.7	689.4
20°	620.1	650.9	663.1	665.0	668.2	668.2	668.2	671.4	677.8	680.4	680.4
22.5°	598.3	638.1	650.9	652.2	656.0	656.0	657.3	661.8	667.5	668.2	668.2
25°	572.7	623.9	634.8	638.7	642.6	644.5	646.4	649.0	650.9	650.2	650.9
27.5°	545.7	606.0	620.1	622.7	627.8	629.7	632.3	632.9	633.6	635.5	634.2
30°	515.6	581.0	602.1	604.7	613.0	614.4	611.8	613.0	616.3	617.5	618.8
32.5°	481.6	543.8	583.6	589.3	597.0	593.2	592.6	594.5	599.6	599.6	600.9
35°	435.5	514.9	566.3	571.4	577.2	572.7	575.2	575.8	579.1	581.0	580.3
37.5°	384.8	490.0	548.3	552.1	556.6	550.9	554.7	556.6	559.2	557.9	557.9
40°	339.8	450.8	527.1	529.7	533.6	529.1	532.9	534.2	535.5	534.2	533.6
42.5°	306.6	407.8	504.7	507.9	505.3	508.5	509.8	512.4	510.4	507.9	507.9
45°	280.8	396.3	480.3	484.1	480.3	485.5	487.4	487.4	481.6	480.3	479.6
47.5°	272.5	373.2	455.9	455.9	454.0	460.4	463.7	459.2	453.4	451.4	451.4
50°	271.9	347.6	422.6	420.1	429.0	436.7	433.5	429.0	424.5	417.5	417.5
52.5°	246.9	316.1	379.6	389.3	403.3	407.8	402.7	398.3	390.5	387.4	384.8
55°	228.9	283.4	340.5	359.7	374.5	380.3	370.6	366.1	354.7	352.7	351.4
57.5°	225.1	236.0	304.6	328.9	346.9	346.3	340.5	332.2	322.5	320.6	320.0
60°	206.5	170.6	266.1	295.0	313.5	311.6	306.6	298.8	289.8	288.6	287.3
62.5°	187.2	123.7	222.5	255.2	281.5	280.8	276.4	264.9	258.5	255.2	252.6
65°	159.0	103.8	158.4	212.3	250.1	251.4	241.7	233.4	226.3	222.5	221.8
67.5°	121.2	84.6	107.1	177.0	219.9	218.7	206.5	202.6	193.6	191.7	187.9
70°	89.8	56.4	74.4	143.6	190.5	187.2	177.7	173.2	164.8	160.4	157.8
72.5°	74.4	45.5	54.5	111.6	160.4	156.4	148.1	143.0	136.0	132.1	129.6
75°	60.2	48.1	41.7	82.7	130.1	127.7	119.9	114.7	109.0	103.8	104.5
77.5°	44.3	44.8	33.4	60.9	103.3	99.4	94.9	88.5	86.0	80.8	80.8
80°	33.4	35.3	25.1	41.7	74.4	74.4	70.6	66.1	61.6	59.0	59.0
82.5°	22.5	22.5	18.6	26.3	50.7	48.8	46.2	44.8	42.4	41.0	41.0
85°	10.2	12.8	11.6	16.1	27.5	28.9	28.9	27.5	27.0	25.6	26.3
87.5°	3.3	5.7	7.1	9.0	14.2	14.7	15.4	15.4	15.4	16.1	16.1
90°	1.0	1.7	2.5	2.7	4.2	6.2	7.3	6.5	4.9	3.6	3.6
92.5°	3.8	10.3	16.8	18.5	26.0	36.0	41.0	36.0	25.8	18.2	17.4
95°	9.2	21.1	33.1	36.0	64.0	101.2	119.8	106.9	81.1	61.8	59.6
97.5°	15.9	26.4	36.9	39.6	86.2	148.2	179.3	171.2	154.8	142.6	138.4
100°	21.0	30.6	40.2	42.6	94.2	163.1	197.5	198.1	199.4	200.2	195.3
102.5°	25.4	34.3	43.3	45.5	97.9	167.8	202.7	213.1	233.9	249.5	245.2
105°	33.0	40.5	48.0	49.9	100.7	168.3	202.1	225.5	272.0	306.9	304.6
107.5°	40.6	47.6	54.7	56.4	101.2	160.8	190.7	223.2	288.1	336.9	337.4
110°	45.8	52.1	58.4	60.0	100.4	154.2	181.1	217.4	290.0	344.5	346.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	50.9	56.9	62.9	64.4	100.4	148.4	172.4	209.6	283.9	339.6	343.3
115°	58.5	64.1	69.6	71.0	101.4	141.8	162.0	197.7	269.4	323.0	328.1
117.5°	66.1	71.1	76.2	77.5	103.3	137.6	154.8	187.1	251.7	300.1	305.8
120°	70.5	75.3	80.0	81.2	104.7	136.2	151.8	181.4	240.5	284.8	290.2
122.5°	74.8	79.6	84.3	85.6	106.9	135.4	149.6	176.2	229.4	269.3	274.6
125°	81.4	85.8	90.2	91.3	110.0	134.8	147.3	169.8	215.0	248.9	253.9
127.5°	86.7	91.2	95.6	96.8	112.9	134.4	145.2	164.7	203.5	232.5	236.8
130°	89.6	94.4	99.2	100.4	115.1	134.7	144.5	161.8	196.3	222.2	226.0
132.5°	92.7	97.4	102.2	103.4	116.8	134.8	143.8	159.3	190.2	213.4	216.9
135°	97.1	101.4	105.8	106.8	118.8	134.7	142.7	155.6	181.5	200.9	203.9
137.5°	101.5	105.9	110.2	111.2	121.6	135.5	142.5	153.4	175.3	191.7	194.2
140°	105.3	109.2	113.2	114.2	123.3	135.7	141.8	151.3	170.2	184.4	186.6
142.5°	108.1	111.8	115.4	116.4	124.9	136.2	141.8	150.1	166.8	179.2	181.2
145°	112.5	115.7	119.0	119.7	126.8	136.2	140.8	147.6	161.2	171.4	173.0
147.5°	116.9	120.0	123.2	123.9	129.6	137.1	140.8	146.2	156.9	164.9	166.2
150°	119.8	122.6	125.5	126.1	131.0	137.6	140.8	145.3	154.4	161.2	162.2
152.5°	122.8	124.9	127.0	127.6	132.0	137.9	140.8	144.7	152.4	158.2	159.0
155°	127.2	128.7	130.3	130.7	134.1	138.6	140.8	143.9	150.1	154.7	155.2
157.5°	130.4	132.0	133.5	133.9	136.2	139.3	140.8	143.2	148.0	151.6	151.9
160°	132.6	133.8	135.0	135.3	137.1	139.6	140.8	142.9	147.0	150.0	150.2
162.5°	134.8	135.7	136.6	136.8	138.2	140.0	140.8	142.6	146.0	148.6	148.8
165°	137.2	138.0	138.8	139.0	139.6	140.5	140.8	142.1	144.6	146.4	146.6
167.5°	139.4	139.8	140.2	140.3	140.8	141.4	141.8	142.6	144.2	145.4	145.5
170°	140.8	141.2	141.6	141.7	141.7	141.8	141.8	142.6	144.2	145.4	145.4
172.5°	141.6	141.7	141.8	141.8	141.8	141.8	141.8	142.5	143.7	144.7	144.6
175°	142.7	142.7	142.7	142.7	142.4	142.0	141.8	142.2	143.0	143.6	143.6
177.5°	142.7	142.7	142.7	142.7	142.5	142.2	142.0	142.3	143.0	143.4	143.3
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	695.2	693.2	695.2	693.8	694.5	692.6	686.8	684.9	686.8	688.7	688.7
5°	703.5	702.2	703.5	703.5	702.8	701.6	695.2	693.8	695.2	695.8	694.5
7.5°	706.1	704.1	706.1	704.7	704.7	703.5	697.1	695.8	696.4	698.3	696.4
10°	706.1	704.1	706.1	705.4	704.7	703.5	697.1	694.5	694.5	696.4	694.5
12.5°	702.8	701.6	702.8	701.6	701.6	700.3	693.8	691.3	691.9	692.6	690.0
15°	697.7	695.8	697.7	696.4	697.1	695.2	688.1	685.5	685.5	686.8	682.3
17.5°	690.0	687.4	690.0	689.4	688.7	687.4	681.0	678.5	677.8	678.5	675.3
20°	681.0	679.1	681.0	680.4	680.4	677.8	671.4	668.2	668.2	668.2	665.0
22.5°	666.9	665.0	666.9	668.2	668.2	667.5	661.8	657.3	656.0	656.0	652.2
25°	650.9	649.0	650.9	650.9	650.2	650.9	649.0	646.4	644.5	642.6	638.7
27.5°	635.5	634.2	635.5	634.2	635.5	633.6	632.9	632.3	629.7	627.8	622.7
30°	620.1	618.8	620.1	618.8	617.5	616.3	613.0	611.8	614.4	613.0	604.7
32.5°	600.9	599.6	600.9	600.9	599.6	599.6	594.5	592.6	593.2	597.0	589.3
35°	581.0	579.1	581.0	580.3	581.0	579.1	575.8	575.2	572.7	577.2	571.4
37.5°	557.9	556.0	557.9	557.9	557.9	559.2	556.6	554.7	550.9	556.6	552.1
40°	534.2	531.6	534.2	533.6	534.2	535.5	534.2	532.9	529.1	533.6	529.7
42.5°	507.3	506.6	507.3	507.9	507.9	510.4	512.4	509.8	508.5	505.3	507.9
45°	478.4	477.1	478.4	479.6	480.3	481.6	487.4	487.4	485.5	480.3	484.1
47.5°	447.6	444.4	447.6	451.4	451.4	453.4	459.2	463.7	460.4	454.0	455.9
50°	414.9	415.6	414.9	417.5	417.5	424.5	429.0	433.5	436.7	429.0	420.1
52.5°	382.9	382.2	382.9	384.8	387.4	390.5	398.3	402.7	407.8	403.3	389.3
55°	350.7	352.1	350.7	351.4	352.7	354.7	366.1	370.6	380.3	374.5	359.7
57.5°	318.7	316.8	318.7	320.0	320.6	322.5	332.2	340.5	346.3	346.9	328.9
60°	281.5	278.9	281.5	287.3	288.6	289.8	298.8	306.6	311.6	313.5	295.0
62.5°	248.8	244.3	248.8	252.6	255.2	258.5	264.9	276.4	280.8	281.5	255.2
65°	214.2	212.3	214.2	221.8	222.5	226.3	233.4	241.7	251.4	250.1	212.3
67.5°	182.7	182.7	182.7	187.9	191.7	193.6	202.6	206.5	218.7	219.9	177.0
70°	153.9	153.3	153.9	157.8	160.4	164.8	173.2	177.7	187.2	190.5	143.6
72.5°	126.3	125.6	126.3	129.6	132.1	136.0	143.0	148.1	156.4	160.4	111.6
75°	101.9	100.7	101.9	104.5	103.8	109.0	114.7	119.9	127.7	130.1	82.7
77.5°	78.2	78.2	78.2	80.8	80.8	86.0	88.5	94.9	99.4	103.3	60.9
80°	58.3	57.8	58.3	59.0	59.0	61.6	66.1	70.6	74.4	74.4	41.7
82.5°	41.0	39.8	41.0	41.0	41.0	42.4	44.8	46.2	48.8	50.7	26.3
85°	25.6	25.6	25.6	26.3	25.6	27.0	27.5	28.9	28.9	27.5	16.1
87.5°	16.6	16.1	16.6	16.1	16.1	15.4	15.4	15.4	14.7	14.2	9.0
90°	3.6	3.6	3.6	3.6	3.6	4.9	6.5	7.3	6.2	4.2	2.7
92.5°	14.5	11.7	14.5	17.4	18.2	25.8	36.0	41.0	36.0	26.0	18.5
95°	50.9	42.1	50.9	59.6	61.8	81.1	106.9	119.8	101.2	64.0	36.0
97.5°	121.7	105.1	121.7	138.4	142.6	154.8	171.2	179.3	148.2	86.2	39.6
100°	175.5	155.6	175.5	195.3	200.2	199.4	198.1	197.5	163.1	94.2	42.6
102.5°	228.1	211.1	228.1	245.2	249.5	233.9	213.1	202.7	167.8	97.9	45.5
105°	295.6	286.4	295.6	304.6	306.9	272.0	225.5	202.1	168.3	100.7	49.9
107.5°	339.6	341.8	339.6	337.4	336.9	288.1	223.2	190.7	160.8	101.2	56.4
110°	356.4	365.9	356.4	346.9	344.5	290.0	217.4	181.1	154.2	100.4	60.0





TEST NUMBER: P933836

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	357.9	372.5	357.9	343.3	339.6	283.9	209.6	172.4	148.4	100.4	64.4
115°	348.4	368.7	348.4	328.1	323.0	269.4	197.7	162.0	141.8	101.4	71.0
117.5°	328.3	350.8	328.3	305.8	300.1	251.7	187.1	154.8	137.6	103.3	77.5
120°	312.1	333.9	312.1	290.2	284.8	240.5	181.4	151.8	136.2	104.7	81.2
122.5°	296.2	317.8	296.2	274.6	269.3	229.4	176.2	149.6	135.4	106.9	85.6
125°	273.8	293.6	273.8	253.9	248.9	215.0	169.8	147.3	134.8	110.0	91.3
127.5°	253.5	270.2	253.5	236.8	232.5	203.5	164.7	145.2	134.4	112.9	96.8
130°	241.5	257.0	241.5	226.0	222.2	196.3	161.8	144.5	134.7	115.1	100.4
132.5°	230.7	244.6	230.7	216.9	213.4	190.2	159.3	143.8	134.8	116.8	103.4
135°	215.9	227.9	215.9	203.9	200.9	181.5	155.6	142.7	134.7	118.8	106.8
137.5°	204.0	213.8	204.0	194.2	191.7	175.3	153.4	142.5	135.5	121.6	111.2
140°	195.7	204.9	195.7	186.6	184.4	170.2	151.3	141.8	135.7	123.3	114.2
142.5°	189.0	196.9	189.0	181.2	179.2	166.8	150.1	141.8	136.2	124.9	116.4
145°	178.9	184.8	178.9	173.0	171.4	161.2	147.6	140.8	136.2	126.8	119.7
147.5°	171.1	176.0	171.1	166.2	164.9	156.9	146.2	140.8	137.1	129.6	123.9
150°	166.2	170.2	166.2	162.2	161.2	154.4	145.3	140.8	137.6	131.0	126.1
152.5°	162.0	165.0	162.0	159.0	158.2	152.4	144.7	140.8	137.9	132.0	127.6
155°	157.2	159.2	157.2	155.2	154.7	150.1	143.9	140.8	138.6	134.1	130.7
157.5°	153.4	154.8	153.4	151.9	151.6	148.0	143.2	140.8	139.3	136.2	133.9
160°	151.1	151.8	151.1	150.2	150.0	147.0	142.9	140.8	139.6	137.1	135.3
162.5°	149.5	150.3	149.5	148.8	148.6	146.0	142.6	140.8	140.0	138.2	136.8
165°	147.4	148.2	147.4	146.6	146.4	144.6	142.1	140.8	140.5	139.6	139.0
167.5°	145.8	146.2	145.8	145.5	145.4	144.2	142.6	141.8	141.4	140.8	140.3
170°	145.4	145.4	145.4	145.4	145.4	144.2	142.6	141.8	141.8	141.7	141.7
172.5°	144.3	144.0	144.3	144.6	144.7	143.7	142.5	141.8	141.8	141.8	141.8
175°	143.6	143.6	143.6	143.6	143.6	143.0	142.2	141.8	142.0	142.4	142.7
177.5°	143.0	142.7	143.0	143.3	143.4	143.0	142.3	142.0	142.2	142.5	142.7
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7



TEST NUMBER: P933836

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	687.4	683.6	683.6	677.2	674.6	672.7	669.5	659.9	657.3	654.7	658.6
5°	693.2	686.2	681.0	669.5	659.9	656.0	643.8	620.8	605.4	593.8	587.4
7.5°	694.5	685.5	675.9	658.0	634.8	624.6	587.4	545.1	533.6	523.3	516.8
10°	693.2	682.9	669.5	642.6	588.1	570.1	532.9	505.3	498.3	496.4	498.3
12.5°	688.7	679.1	660.5	615.6	539.3	527.1	505.3	489.3	488.0	491.2	508.5
15°	681.0	672.0	650.2	579.7	512.4	503.4	488.0	482.2	489.3	511.8	563.7
17.5°	673.4	663.1	636.2	544.5	491.9	485.5	474.6	486.1	525.8	556.0	573.3
20°	663.1	650.9	620.1	518.8	477.1	471.3	466.2	518.2	548.3	559.2	568.8
22.5°	650.9	638.1	598.3	500.9	461.7	457.3	460.4	536.1	548.3	556.0	564.3
25°	634.8	623.9	572.7	486.7	449.5	444.4	456.6	534.2	541.2	543.1	559.9
27.5°	620.1	606.0	545.7	473.9	434.8	432.9	459.8	525.8	531.0	532.9	550.9
30°	602.1	581.0	515.6	460.4	419.4	418.7	460.4	515.6	514.3	519.4	537.4
32.5°	583.6	543.8	481.6	443.8	404.7	404.0	455.9	500.2	498.9	505.9	519.4
35°	566.3	514.9	435.5	424.5	386.0	386.7	445.0	482.2	482.9	489.3	497.6
37.5°	548.3	490.0	384.8	403.3	368.1	368.1	430.3	465.6	464.3	466.2	477.7
40°	527.1	450.8	339.8	375.8	351.4	349.5	412.3	447.6	443.1	442.5	458.5
42.5°	504.7	407.8	306.6	339.3	332.2	329.6	390.5	425.8	417.5	419.4	439.9
45°	480.3	396.3	280.8	286.7	312.3	310.4	366.8	400.8	395.0	400.2	421.3
47.5°	455.9	373.2	272.5	237.9	291.2	290.5	340.5	376.5	373.2	378.4	400.8
50°	422.6	347.6	271.9	204.0	267.4	269.9	309.1	352.7	352.7	357.2	380.9
52.5°	379.6	316.1	246.9	184.6	239.8	247.6	281.5	332.2	333.4	337.9	359.1
55°	340.5	283.4	228.9	169.9	207.1	223.8	254.5	311.0	313.5	318.0	337.3
57.5°	304.6	236.0	225.1	152.6	177.0	193.1	230.8	290.5	291.7	295.7	314.2
60°	266.1	170.6	206.5	134.1	150.7	162.8	209.0	266.1	270.6	273.2	289.2
62.5°	222.5	123.7	187.2	121.2	137.9	140.5	191.1	243.1	248.8	250.7	260.4
65°	158.4	103.8	159.0	110.3	124.4	125.1	171.8	219.4	224.4	227.7	234.7
67.5°	107.1	84.6	121.2	100.0	114.2	114.7	153.3	191.7	198.8	201.4	205.9
70°	74.4	56.4	89.8	89.1	102.6	103.8	133.4	166.8	173.2	175.1	177.7
72.5°	54.5	45.5	74.4	80.1	90.5	91.7	112.8	138.6	145.0	146.9	148.1
75°	41.7	48.1	60.2	69.9	77.0	77.5	92.4	112.8	117.3	118.7	119.2
77.5°	33.4	44.8	44.3	56.4	62.8	61.6	72.5	87.2	91.0	91.0	91.0
80°	25.1	35.3	33.4	40.4	46.2	44.8	51.9	62.2	63.5	64.7	64.2
82.5°	18.6	22.5	22.5	25.6	30.8	29.5	34.6	40.4	40.4	40.4	41.7
85°	11.6	12.8	10.2	13.5	17.3	16.6	19.2	21.8	22.5	22.5	21.1
87.5°	7.1	5.7	3.3	5.2	7.6	7.6	9.0	9.7	9.0	9.0	9.0
90°	2.5	1.7	1.0	1.7	2.5	2.7	4.2	6.2	7.3	6.5	4.9
92.5°	16.8	10.3	3.8	10.3	16.8	18.5	26.0	36.0	41.0	36.0	25.8
95°	33.1	21.1	9.2	21.1	33.1	36.0	64.0	101.2	119.8	106.9	81.1
97.5°	36.9	26.4	15.9	26.4	36.9	39.6	86.2	148.2	179.3	171.2	154.8
100°	40.2	30.6	21.0	30.6	40.2	42.6	94.2	163.1	197.5	198.1	199.4
102.5°	43.3	34.3	25.4	34.3	43.3	45.5	97.9	167.8	202.7	213.1	233.9
105°	48.0	40.5	33.0	40.5	48.0	49.9	100.7	168.3	202.1	225.5	272.0
107.5°	54.7	47.6	40.6	47.6	54.7	56.4	101.2	160.8	190.7	223.2	288.1
110°	58.4	52.1	45.8	52.1	58.4	60.0	100.4	154.2	181.1	217.4	290.0



TEST NUMBER: P933836

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	62.9	56.9	50.9	56.9	62.9	64.4	100.4	148.4	172.4	209.6	283.9
115°	69.6	64.1	58.5	64.1	69.6	71.0	101.4	141.8	162.0	197.7	269.4
117.5°	76.2	71.1	66.1	71.1	76.2	77.5	103.3	137.6	154.8	187.1	251.7
120°	80.0	75.3	70.5	75.3	80.0	81.2	104.7	136.2	151.8	181.4	240.5
122.5°	84.3	79.6	74.8	79.6	84.3	85.6	106.9	135.4	149.6	176.2	229.4
125°	90.2	85.8	81.4	85.8	90.2	91.3	110.0	134.8	147.3	169.8	215.0
127.5°	95.6	91.2	86.7	91.2	95.6	96.8	112.9	134.4	145.2	164.7	203.5
130°	99.2	94.4	89.6	94.4	99.2	100.4	115.1	134.7	144.5	161.8	196.3
132.5°	102.2	97.4	92.7	97.4	102.2	103.4	116.8	134.8	143.8	159.3	190.2
135°	105.8	101.4	97.1	101.4	105.8	106.8	118.8	134.7	142.7	155.6	181.5
137.5°	110.2	105.9	101.5	105.9	110.2	111.2	121.6	135.5	142.5	153.4	175.3
140°	113.2	109.2	105.3	109.2	113.2	114.2	123.3	135.7	141.8	151.3	170.2
142.5°	115.4	111.8	108.1	111.8	115.4	116.4	124.9	136.2	141.8	150.1	166.8
145°	119.0	115.7	112.5	115.7	119.0	119.7	126.8	136.2	140.8	147.6	161.2
147.5°	123.2	120.0	116.9	120.0	123.2	123.9	129.6	137.1	140.8	146.2	156.9
150°	125.5	122.6	119.8	122.6	125.5	126.1	131.0	137.6	140.8	145.3	154.4
152.5°	127.0	124.9	122.8	124.9	127.0	127.6	132.0	137.9	140.8	144.7	152.4
155°	130.3	128.7	127.2	128.7	130.3	130.7	134.1	138.6	140.8	143.9	150.1
157.5°	133.5	132.0	130.4	132.0	133.5	133.9	136.2	139.3	140.8	143.2	148.0
160°	135.0	133.8	132.6	133.8	135.0	135.3	137.1	139.6	140.8	142.9	147.0
162.5°	136.6	135.7	134.8	135.7	136.6	136.8	138.2	140.0	140.8	142.6	146.0
165°	138.8	138.0	137.2	138.0	138.8	139.0	139.6	140.5	140.8	142.1	144.6
167.5°	140.2	139.8	139.4	139.8	140.2	140.3	140.8	141.4	141.8	142.6	144.2
170°	141.6	141.2	140.8	141.2	141.6	141.7	141.7	141.8	141.8	142.6	144.2
172.5°	141.8	141.7	141.6	141.7	141.8	141.8	141.8	141.8	141.8	142.5	143.7
175°	142.7	142.7	142.7	142.7	142.7	142.7	142.4	142.0	141.8	142.2	143.0
177.5°	142.7	142.7	142.7	142.7	142.7	142.7	142.5	142.2	142.0	142.3	143.0
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7



TEST NUMBER: P933836

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	654.1	652.2	654.7	647.7	654.7	652.2	654.1	658.6	654.7	657.3	659.9
5°	573.9	570.8	560.5	552.1	560.5	570.8	573.9	587.4	593.8	605.4	620.8
7.5°	513.0	510.4	507.9	502.8	507.9	510.4	513.0	516.8	523.3	533.6	545.1
10°	499.5	500.2	504.0	503.4	504.0	500.2	499.5	498.3	496.4	498.3	505.3
12.5°	534.2	540.0	561.1	559.9	561.1	540.0	534.2	508.5	491.2	488.0	489.3
15°	573.9	575.8	580.3	581.0	580.3	575.8	573.9	563.7	511.8	489.3	482.2
17.5°	577.8	578.4	581.7	581.7	581.7	578.4	577.8	573.3	556.0	525.8	486.1
20°	574.6	575.8	582.3	583.6	582.3	575.8	574.6	568.8	559.2	548.3	518.2
22.5°	573.3	575.8	581.0	580.3	581.0	575.8	573.3	564.3	556.0	548.3	536.1
25°	566.9	566.9	567.5	568.2	567.5	566.9	566.9	559.9	543.1	541.2	534.2
27.5°	553.4	554.7	558.5	557.9	558.5	554.7	553.4	550.9	532.9	531.0	525.8
30°	541.2	540.0	536.7	534.2	536.7	540.0	541.2	537.4	519.4	514.3	515.6
32.5°	520.7	517.5	514.3	512.4	514.3	517.5	520.7	519.4	505.9	498.9	500.2
35°	496.4	497.0	496.4	494.4	496.4	497.0	496.4	497.6	489.3	482.9	482.2
37.5°	479.1	480.3	479.6	477.1	479.6	480.3	479.1	477.7	466.2	464.3	465.6
40°	461.1	461.7	461.1	459.2	461.1	461.7	461.1	458.5	442.5	443.1	447.6
42.5°	443.8	443.1	441.2	439.9	441.2	443.1	443.8	439.9	419.4	417.5	425.8
45°	423.9	424.5	420.6	418.7	420.6	424.5	423.9	421.3	400.2	395.0	400.8
47.5°	404.0	404.0	400.8	398.8	400.8	404.0	404.0	400.8	378.4	373.2	376.5
50°	382.9	382.2	377.7	377.0	377.7	382.2	382.9	380.9	357.2	352.7	352.7
52.5°	358.5	358.5	359.1	360.4	359.1	358.5	358.5	359.1	337.9	333.4	332.2
55°	337.3	337.9	342.4	343.8	342.4	337.9	337.3	337.3	318.0	313.5	311.0
57.5°	315.5	315.5	318.7	318.7	318.7	315.5	315.5	314.2	295.7	291.7	290.5
60°	290.5	291.7	294.3	293.7	294.3	291.7	290.5	289.2	273.2	270.6	266.1
62.5°	264.2	265.5	266.1	264.9	266.1	265.5	264.2	260.4	250.7	248.8	243.1
65°	236.7	237.9	238.6	237.2	238.6	237.9	236.7	234.7	227.7	224.4	219.4
67.5°	208.5	207.8	207.1	209.7	207.1	207.8	208.5	205.9	201.4	198.8	191.7
70°	179.6	179.6	178.9	180.2	178.9	179.6	179.6	177.7	175.1	173.2	166.8
72.5°	148.8	148.1	150.7	148.8	150.7	148.1	148.8	148.1	146.9	145.0	138.6
75°	118.7	119.9	118.7	120.6	118.7	119.9	118.7	119.2	118.7	117.3	112.8
77.5°	90.5	91.7	90.5	90.5	90.5	91.7	90.5	91.0	91.0	91.0	87.2
80°	64.2	63.5	63.5	62.8	63.5	63.5	64.2	64.2	64.7	63.5	62.2
82.5°	41.0	40.4	40.4	41.7	40.4	40.4	41.0	41.7	40.4	40.4	40.4
85°	22.5	23.0	21.8	21.8	21.8	23.0	22.5	21.1	22.5	22.5	21.8
87.5°	8.3	7.6	7.6	7.6	7.6	7.6	8.3	9.0	9.0	9.0	9.7
90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.9	6.5	7.3	6.2
92.5°	18.2	17.4	14.5	11.7	14.5	17.4	18.2	25.8	36.0	41.0	36.0
95°	61.8	59.6	50.9	42.1	50.9	59.6	61.8	81.1	106.9	119.8	101.2
97.5°	142.6	138.4	121.7	105.1	121.7	138.4	142.6	154.8	171.2	179.3	148.2
100°	200.2	195.3	175.5	155.6	175.5	195.3	200.2	199.4	198.1	197.5	163.1
102.5°	249.5	245.2	228.1	211.1	228.1	245.2	249.5	233.9	213.1	202.7	167.8
105°	306.9	304.6	295.6	286.4	295.6	304.6	306.9	272.0	225.5	202.1	168.3
107.5°	336.9	337.4	339.6	341.8	339.6	337.4	336.9	288.1	223.2	190.7	160.8
110°	344.5	346.9	356.4	365.9	356.4	346.9	344.5	290.0	217.4	181.1	154.2



TEST NUMBER: P933836

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-6500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	339.6	343.3	357.9	372.5	357.9	343.3	339.6	283.9	209.6	172.4	148.4
115°	323.0	328.1	348.4	368.7	348.4	328.1	323.0	269.4	197.7	162.0	141.8
117.5°	300.1	305.8	328.3	350.8	328.3	305.8	300.1	251.7	187.1	154.8	137.6
120°	284.8	290.2	312.1	333.9	312.1	290.2	284.8	240.5	181.4	151.8	136.2
122.5°	269.3	274.6	296.2	317.8	296.2	274.6	269.3	229.4	176.2	149.6	135.4
125°	248.9	253.9	273.8	293.6	273.8	253.9	248.9	215.0	169.8	147.3	134.8
127.5°	232.5	236.8	253.5	270.2	253.5	236.8	232.5	203.5	164.7	145.2	134.4
130°	222.2	226.0	241.5	257.0	241.5	226.0	222.2	196.3	161.8	144.5	134.7
132.5°	213.4	216.9	230.7	244.6	230.7	216.9	213.4	190.2	159.3	143.8	134.8
135°	200.9	203.9	215.9	227.9	215.9	203.9	200.9	181.5	155.6	142.7	134.7
137.5°	191.7	194.2	204.0	213.8	204.0	194.2	191.7	175.3	153.4	142.5	135.5
140°	184.4	186.6	195.7	204.9	195.7	186.6	184.4	170.2	151.3	141.8	135.7
142.5°	179.2	181.2	189.0	196.9	189.0	181.2	179.2	166.8	150.1	141.8	136.2
145°	171.4	173.0	178.9	184.8	178.9	173.0	171.4	161.2	147.6	140.8	136.2
147.5°	164.9	166.2	171.1	176.0	171.1	166.2	164.9	156.9	146.2	140.8	137.1
150°	161.2	162.2	166.2	170.2	166.2	162.2	161.2	154.4	145.3	140.8	137.6
152.5°	158.2	159.0	162.0	165.0	162.0	159.0	158.2	152.4	144.7	140.8	137.9
155°	154.7	155.2	157.2	159.2	157.2	155.2	154.7	150.1	143.9	140.8	138.6
157.5°	151.6	151.9	153.4	154.8	153.4	151.9	151.6	148.0	143.2	140.8	139.3
160°	150.0	150.2	151.1	151.8	151.1	150.2	150.0	147.0	142.9	140.8	139.6
162.5°	148.6	148.8	149.5	150.3	149.5	148.8	148.6	146.0	142.6	140.8	140.0
165°	146.4	146.6	147.4	148.2	147.4	146.6	146.4	144.6	142.1	140.8	140.5
167.5°	145.4	145.5	145.8	146.2	145.8	145.5	145.4	144.2	142.6	141.8	141.4
170°	145.4	145.4	145.4	145.4	145.4	145.4	145.4	144.2	142.6	141.8	141.8
172.5°	144.7	144.6	144.3	144.0	144.3	144.6	144.7	143.7	142.5	141.8	141.8
175°	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.0	142.2	141.8	142.0
177.5°	143.4	143.3	143.0	142.7	143.0	143.3	143.4	143.0	142.3	142.0	142.2
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	677.8	677.8	677.8	677.8	677.8
2.5°	669.5	672.7	674.6	677.2	683.6
5°	643.8	656.0	659.9	669.5	681.0
7.5°	587.4	624.6	634.8	658.0	675.9
10°	532.9	570.1	588.1	642.6	669.5
12.5°	505.3	527.1	539.3	615.6	660.5
15°	488.0	503.4	512.4	579.7	650.2
17.5°	474.6	485.5	491.9	544.5	636.2
20°	466.2	471.3	477.1	518.8	620.1
22.5°	460.4	457.3	461.7	500.9	598.3
25°	456.6	444.4	449.5	486.7	572.7
27.5°	459.8	432.9	434.8	473.9	545.7
30°	460.4	418.7	419.4	460.4	515.6
32.5°	455.9	404.0	404.7	443.8	481.6
35°	445.0	386.7	386.0	424.5	435.5
37.5°	430.3	368.1	368.1	403.3	384.8
40°	412.3	349.5	351.4	375.8	339.8
42.5°	390.5	329.6	332.2	339.3	306.6
45°	366.8	310.4	312.3	286.7	280.8
47.5°	340.5	290.5	291.2	237.9	272.5
50°	309.1	269.9	267.4	204.0	271.9
52.5°	281.5	247.6	239.8	184.6	246.9
55°	254.5	223.8	207.1	169.9	228.9
57.5°	230.8	193.1	177.0	152.6	225.1
60°	209.0	162.8	150.7	134.1	206.5
62.5°	191.1	140.5	137.9	121.2	187.2
65°	171.8	125.1	124.4	110.3	159.0
67.5°	153.3	114.7	114.2	100.0	121.2
70°	133.4	103.8	102.6	89.1	89.8
72.5°	112.8	91.7	90.5	80.1	74.4
75°	92.4	77.5	77.0	69.9	60.2
77.5°	72.5	61.6	62.8	56.4	44.3
80°	51.9	44.8	46.2	40.4	33.4
82.5°	34.6	29.5	30.8	25.6	22.5
85°	19.2	16.6	17.3	13.5	10.2
87.5°	9.0	7.6	7.6	5.2	3.3
90°	4.2	2.7	2.5	1.7	1.0
92.5°	26.0	18.5	16.8	10.3	3.8
95°	64.0	36.0	33.1	21.1	9.2
97.5°	86.2	39.6	36.9	26.4	15.9
100°	94.2	42.6	40.2	30.6	21.0
102.5°	97.9	45.5	43.3	34.3	25.4
105°	100.7	49.9	48.0	40.5	33.0
107.5°	101.2	56.4	54.7	47.6	40.6
110°	100.4	60.0	58.4	52.1	45.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	100.4	64.4	62.9	56.9	50.9
115°	101.4	71.0	69.6	64.1	58.5
117.5°	103.3	77.5	76.2	71.1	66.1
120°	104.7	81.2	80.0	75.3	70.5
122.5°	106.9	85.6	84.3	79.6	74.8
125°	110.0	91.3	90.2	85.8	81.4
127.5°	112.9	96.8	95.6	91.2	86.7
130°	115.1	100.4	99.2	94.4	89.6
132.5°	116.8	103.4	102.2	97.4	92.7
135°	118.8	106.8	105.8	101.4	97.1
137.5°	121.6	111.2	110.2	105.9	101.5
140°	123.3	114.2	113.2	109.2	105.3
142.5°	124.9	116.4	115.4	111.8	108.1
145°	126.8	119.7	119.0	115.7	112.5
147.5°	129.6	123.9	123.2	120.0	116.9
150°	131.0	126.1	125.5	122.6	119.8
152.5°	132.0	127.6	127.0	124.9	122.8
155°	134.1	130.7	130.3	128.7	127.2
157.5°	136.2	133.9	133.5	132.0	130.4
160°	137.1	135.3	135.0	133.8	132.6
162.5°	138.2	136.8	136.6	135.7	134.8
165°	139.6	139.0	138.8	138.0	137.2
167.5°	140.8	140.3	140.2	139.8	139.4
170°	141.7	141.7	141.6	141.2	140.8
172.5°	141.8	141.8	141.8	141.7	141.6
175°	142.4	142.7	142.7	142.7	142.7
177.5°	142.5	142.7	142.7	142.7	142.7
180°	142.7	142.7	142.7	142.7	142.7



TEST NUMBER: P933836  
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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	12.50	13.52	13.31	14.36	15.39	15.30	16.32	16.11	17.16	18.19
	3H	12.99	13.91	13.82	14.75	15.81	16.65	17.56	17.47	18.41	19.47
	4H	13.19	14.06	14.03	14.91	15.98	17.09	17.96	17.93	18.81	19.88
	6H	13.32	14.12	14.17	14.97	16.06	17.38	18.18	18.23	19.03	20.12
	8H	13.32	14.08	14.19	14.96	16.04	17.45	18.21	18.32	19.09	20.17
	12H	13.30	14.02	14.17	14.90	16.01	17.49	18.22	18.36	19.09	20.20
4H	2H	13.55	14.41	14.39	15.26	16.33	15.73	16.60	16.58	17.45	18.52
	3H	14.59	15.31	15.45	16.19	17.28	17.24	17.96	18.10	18.85	19.93
	4H	14.87	15.53	15.74	16.41	17.52	17.77	18.43	18.64	19.31	20.42
	6H	15.01	15.57	15.89	16.48	17.59	18.14	18.70	19.02	19.61	20.72
	8H	15.02	15.55	15.91	16.45	17.57	18.24	18.77	19.13	19.67	20.80
	12H	14.99	15.47	15.90	16.39	17.52	18.30	18.78	19.21	19.70	20.83
8H	4H	15.33	15.86	16.22	16.76	17.89	17.91	18.44	18.80	19.34	20.47
	6H	15.60	16.04	16.52	16.98	18.11	18.34	18.78	19.26	19.72	20.85
	8H	15.65	16.03	16.57	16.97	18.11	18.49	18.88	19.42	19.81	20.96
	12H	15.64	15.98	16.57	16.91	18.10	18.59	18.93	19.52	19.86	21.06
12H	4H	15.35	15.82	16.25	16.74	17.88	17.88	18.36	18.79	19.28	20.41
	6H	15.66	16.05	16.59	16.99	18.13	18.34	18.73	19.27	19.66	20.81
	8H	15.74	16.08	16.67	17.00	18.20	18.51	18.85	19.43	19.77	20.97