

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: P933870

Luminaire Tested: SQ4-FA-025U-050D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

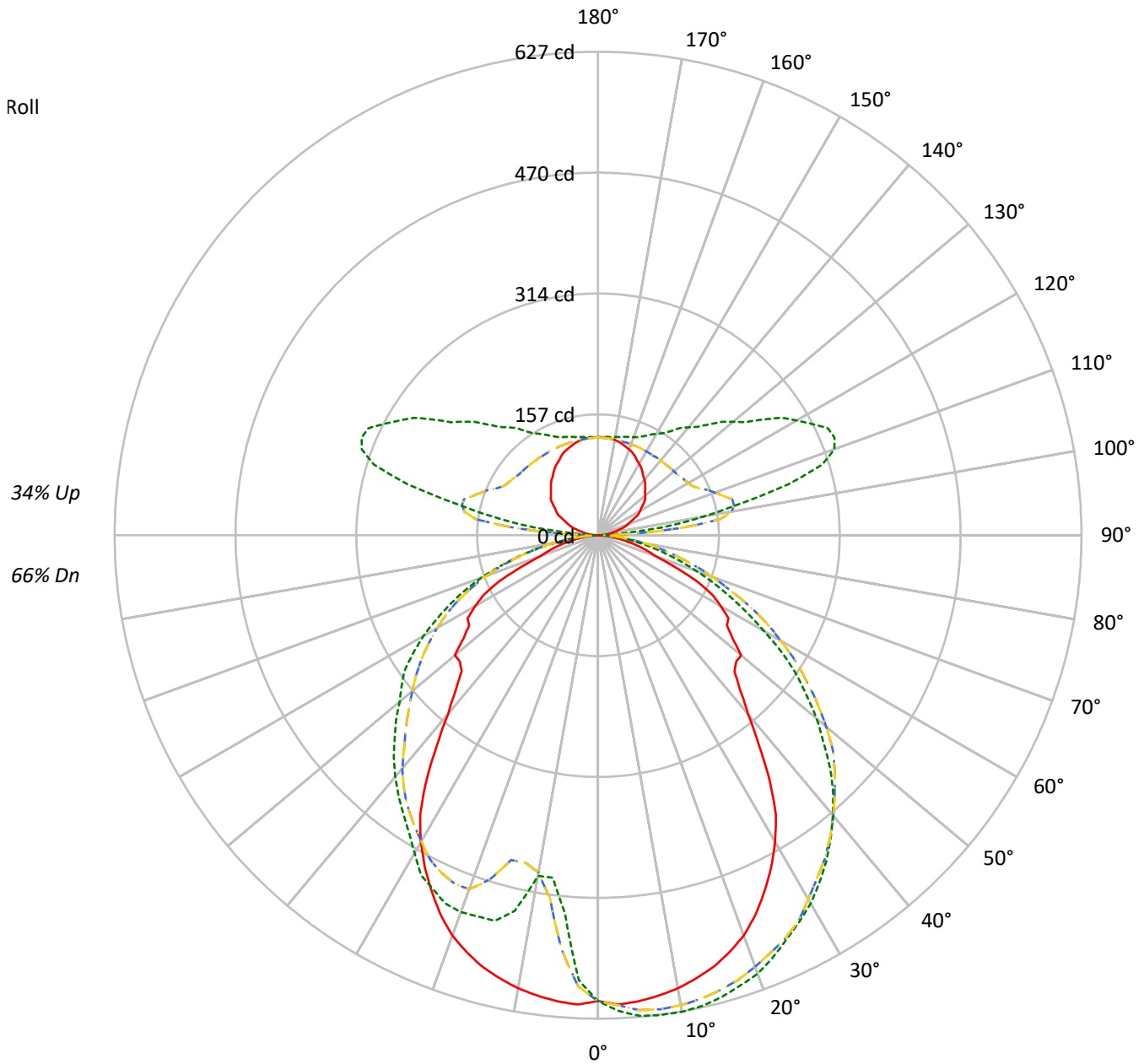
Test Method: LM-79-2019  
Report Number: P933870  
REPORT IS A COMBINATION OF REPORTS P933674 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2390.7 lumens  
Efficiency: N/A  
Efficacy: 108.7 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

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### Luminous Intensity Polar Plot



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



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	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°	5605	5605	5605	5605
5°	5640	5658	5640	4448
10°	5597	5573	5597	3985
15°	5529	5452	5529	4553
20°	5407	5309	5407	4562
25°	5165	5101	5165	4466
30°	4852	4927	4852	4253
35°	4320	4708	4320	4020
40°	3593	4450	3593	3843
45°	3203	4148	3203	3641
50°	3397	3789	3397	3437
55°	3187	3400	3187	3320
60°	3273	2887	3273	3041
65°	2953	2387	2953	2668
70°	2031	1903	2031	2237
75°	1761	1406	1761	1684
80°	1390	931	1390	1012
85°	754	491	754	418

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4921 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.5	2.3
10°-20°	154.8	6.5
20°-30°	239.3	10.0
30°-40°	285.7	11.9
40°-50°	287.3	12.0
50°-60°	250.0	10.5
60°-70°	177.3	7.4
70°-80°	93.8	3.9
80°-90°	23.8	1.0
90°-100°	62.0	2.6
100°-110°	162.9	6.8
110°-120°	169.0	7.1
120°-130°	135.5	5.7
130°-140°	106.3	4.4
140°-150°	81.6	3.4
150°-160°	58.8	2.5
160°-170°	36.0	1.5
170°-180°	12.1	0.5
0°-30°	448.6	18.8
0°-40°	734.2	30.7
0°-60°	1271.6	53.2
0°-90°	1566.5	65.5
90°-120°	393.9	16.5
90°-150°	717.3	30.0
90°-180°	824.0	34.5
0°-180°	2390.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	604	604	604	604	604	
5°	607	626	607	492	607	58
15°	579	620	579	518	579	163
25°	510	578	510	506	510	234
35°	388	516	388	441	388	240
45°	250	425	250	373	250	200
55°	204	314	204	306	204	187
65°	142	189	142	211	142	135
75°	54	90	54	107	54	56
85°	9	23	9	19	9	12
90°	1	3	1	3	1	1
95°	8	38	8	38	8	9
105°	29	255	29	255	29	31
115°	52	328	52	328	52	51
125°	72	262	72	262	72	64
135°	86	203	86	203	86	67
145°	100	165	100	165	100	63
155°	113	142	113	142	113	52
165°	122	132	122	132	122	35
175°	127	128	127	128	127	12
180°	127	127	127	127	127	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	609.1	609.1	612.5	613.7	613.7	612.0	610.3	612.0	617.1	618.8	618.2
5°	606.8	611.4	617.7	618.8	620.0	619.4	618.2	619.4	625.1	626.2	626.8
7.5°	602.3	610.8	618.8	620.5	622.2	620.5	620.0	621.1	626.8	627.9	627.9
10°	596.6	608.5	617.7	618.8	620.5	618.8	618.8	621.1	626.8	627.9	628.5
12.5°	588.6	605.1	613.7	614.8	617.1	616.5	616.0	618.2	624.0	625.1	625.1
15°	579.4	598.8	606.8	608.0	612.0	610.8	610.8	613.1	619.4	621.1	620.5
17.5°	566.8	590.9	600.0	601.7	604.6	604.0	604.6	606.8	612.5	613.7	614.3
20°	552.5	580.0	590.9	592.6	595.4	595.4	595.4	598.3	604.0	606.3	606.3
22.5°	533.1	568.5	580.0	581.1	584.6	584.6	585.7	589.7	594.8	595.4	595.4
25°	510.3	555.9	565.6	569.1	572.5	574.2	576.0	578.3	580.0	579.4	580.0
27.5°	486.2	540.0	552.5	554.8	559.4	561.1	563.4	563.9	564.5	566.2	565.1
30°	459.4	517.7	536.5	538.8	546.2	547.4	545.1	546.2	549.1	550.2	551.4
32.5°	429.2	484.5	520.0	525.1	532.0	528.6	528.0	529.7	534.3	534.3	535.4
35°	388.0	458.8	504.6	509.2	514.3	510.3	512.6	513.1	516.0	517.7	517.1
37.5°	342.8	436.6	488.5	491.9	495.9	490.8	494.2	495.9	498.2	497.1	497.1
40°	302.8	401.7	469.7	472.0	475.4	471.4	474.8	476.0	477.1	476.0	475.4
42.5°	273.2	363.4	449.7	452.6	450.3	453.1	454.3	456.6	454.8	452.6	452.6
45°	250.2	353.2	428.0	431.4	428.0	432.6	434.3	434.3	429.2	428.0	427.4
47.5°	242.8	332.5	406.2	406.2	404.5	410.2	413.1	409.1	404.0	402.2	402.2
50°	242.3	309.7	376.6	374.3	382.3	389.1	386.3	382.3	378.3	372.0	372.0
52.5°	220.0	281.7	338.2	346.8	359.4	363.4	358.9	354.9	348.0	345.1	342.8
55°	204.0	252.5	303.4	320.5	333.7	338.8	330.2	326.2	316.0	314.3	313.1
57.5°	200.6	210.3	271.4	293.1	309.1	308.6	303.4	296.0	287.4	285.7	285.2
60°	184.0	152.0	237.1	262.8	279.4	277.7	273.2	266.2	258.2	257.1	256.0
62.5°	166.8	110.2	198.3	227.4	250.8	250.2	246.3	236.0	230.3	227.4	225.1
65°	141.7	92.5	141.2	189.1	222.9	224.0	215.4	208.0	201.7	198.3	197.7
67.5°	108.0	75.4	95.4	157.7	196.0	194.9	184.0	180.5	172.5	170.8	167.4
70°	80.0	50.3	66.3	128.0	169.7	166.8	158.3	154.3	146.9	142.9	140.6
72.5°	66.3	40.6	48.6	99.4	142.9	139.4	132.0	127.5	121.2	117.7	115.4
75°	53.7	42.9	37.1	73.7	116.0	113.7	106.8	102.2	97.1	92.5	93.1
77.5°	39.4	40.0	29.7	54.3	92.0	88.6	84.6	78.9	76.6	72.0	72.0
80°	29.7	31.4	22.3	37.1	66.3	66.3	62.9	58.9	54.9	52.6	52.6
82.5°	20.0	20.0	16.5	23.4	45.2	43.5	41.2	40.0	37.7	36.6	36.6
85°	9.1	11.4	10.3	14.3	24.5	25.7	25.7	24.5	24.0	22.8	23.4
87.5°	2.9	5.1	6.3	8.0	12.6	13.1	13.7	13.7	13.7	14.3	14.3
90°	0.9	1.5	2.2	2.4	3.7	5.5	6.5	5.8	4.3	3.2	3.2
92.5°	3.4	9.2	15.0	16.4	23.2	32.1	36.6	32.0	23.0	16.2	15.5
95°	8.2	18.8	29.5	32.1	57.0	90.1	106.8	95.3	72.2	55.0	53.1
97.5°	14.1	23.5	32.9	35.3	76.8	132.1	159.8	152.5	137.9	127.0	123.3
100°	18.7	27.3	35.8	37.9	83.9	145.4	176.0	176.5	177.6	178.4	174.0
102.5°	22.7	30.6	38.6	40.6	87.2	149.5	180.6	189.9	208.4	222.3	218.5
105°	29.4	36.1	42.8	44.5	89.7	150.0	180.1	200.9	242.4	273.5	271.4
107.5°	36.2	42.4	48.7	50.3	90.1	143.3	169.9	198.9	256.7	300.2	300.7
110°	40.8	46.4	52.1	53.5	89.5	137.4	161.4	193.7	258.4	307.0	309.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	45.3	50.7	56.1	57.4	89.5	132.2	153.6	186.8	253.0	302.6	305.9
115°	52.1	57.1	62.0	63.3	90.3	126.4	144.3	176.2	240.0	287.8	292.3
117.5°	58.9	63.4	67.9	69.0	92.0	122.6	137.9	166.7	224.2	267.4	272.5
120°	62.8	67.1	71.3	72.3	93.3	121.3	135.3	161.6	214.3	253.7	258.6
122.5°	66.6	70.9	75.1	76.3	95.3	120.6	133.3	157.0	204.4	239.9	244.7
125°	72.5	76.4	80.3	81.4	98.0	120.1	131.2	151.3	191.6	221.8	226.2
127.5°	77.3	81.3	85.2	86.2	100.6	119.8	129.4	146.7	181.3	207.2	211.0
130°	79.8	84.1	88.4	89.5	102.6	120.0	128.7	144.2	174.9	198.0	201.4
132.5°	82.6	86.8	91.1	92.1	104.1	120.1	128.1	141.9	169.5	190.2	193.2
135°	86.5	90.3	94.2	95.2	105.8	120.0	127.1	138.6	161.7	179.0	181.6
137.5°	90.5	94.3	98.2	99.1	108.4	120.7	126.9	136.7	156.2	170.8	173.0
140°	93.8	97.3	100.9	101.7	109.9	120.9	126.4	134.8	151.7	164.3	166.3
142.5°	96.4	99.6	102.8	103.7	111.3	121.3	126.4	133.8	148.6	159.7	161.5
145°	100.3	103.1	106.0	106.7	113.0	121.3	125.5	131.5	143.6	152.8	154.1
147.5°	104.2	106.9	109.7	110.4	115.4	122.2	125.5	130.3	139.8	147.0	148.1
150°	106.8	109.2	111.8	112.4	116.7	122.6	125.5	129.5	137.6	143.6	144.5
152.5°	109.4	111.3	113.1	113.7	117.6	122.9	125.5	128.9	135.8	141.0	141.7
155°	113.3	114.7	116.1	116.5	119.5	123.5	125.5	128.2	133.8	137.9	138.3
157.5°	116.2	117.6	118.9	119.3	121.3	124.1	125.5	127.6	131.9	135.0	135.4
160°	118.2	119.2	120.3	120.6	122.2	124.4	125.5	127.3	131.0	133.7	133.8
162.5°	120.1	120.9	121.8	121.9	123.1	124.7	125.5	127.0	130.1	132.4	132.6
165°	122.3	122.9	123.7	123.9	124.4	125.2	125.5	126.6	128.8	130.4	130.6
167.5°	124.2	124.6	124.9	125.0	125.4	126.0	126.4	127.0	128.5	129.6	129.7
170°	125.5	125.8	126.2	126.3	126.3	126.4	126.4	127.0	128.5	129.6	129.6
172.5°	126.2	126.3	126.4	126.4	126.4	126.4	126.4	126.9	128.1	128.9	128.8
175°	127.1	127.1	127.1	127.1	126.9	126.5	126.4	126.7	127.5	128.0	128.0
177.5°	127.1	127.1	127.1	127.1	126.9	126.7	126.5	126.8	127.4	127.8	127.7
180°	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	619.4	617.7	619.4	618.2	618.8	617.1	612.0	610.3	612.0	613.7	613.7
5°	626.8	625.7	626.8	626.8	626.2	625.1	619.4	618.2	619.4	620.0	618.8
7.5°	629.1	627.4	629.1	627.9	627.9	626.8	621.1	620.0	620.5	622.2	620.5
10°	629.1	627.4	629.1	628.5	627.9	626.8	621.1	618.8	618.8	620.5	618.8
12.5°	626.2	625.1	626.2	625.1	625.1	624.0	618.2	616.0	616.5	617.1	614.8
15°	621.7	620.0	621.7	620.5	621.1	619.4	613.1	610.8	610.8	612.0	608.0
17.5°	614.8	612.5	614.8	614.3	613.7	612.5	606.8	604.6	604.0	604.6	601.7
20°	606.8	605.1	606.8	606.3	606.3	604.0	598.3	595.4	595.4	595.4	592.6
22.5°	594.3	592.6	594.3	595.4	595.4	594.8	589.7	585.7	584.6	584.6	581.1
25°	580.0	578.3	580.0	580.0	579.4	580.0	578.3	576.0	574.2	572.5	569.1
27.5°	566.2	565.1	566.2	565.1	566.2	564.5	563.9	563.4	561.1	559.4	554.8
30°	552.5	551.4	552.5	551.4	550.2	549.1	546.2	545.1	547.4	546.2	538.8
32.5°	535.4	534.3	535.4	535.4	534.3	534.3	529.7	528.0	528.6	532.0	525.1
35°	517.7	516.0	517.7	517.1	517.7	516.0	513.1	512.6	510.3	514.3	509.2
37.5°	497.1	495.4	497.1	497.1	497.1	498.2	495.9	494.2	490.8	495.9	491.9
40°	476.0	473.7	476.0	475.4	476.0	477.1	476.0	474.8	471.4	475.4	472.0
42.5°	452.0	451.4	452.0	452.6	452.6	454.8	456.6	454.3	453.1	450.3	452.6
45°	426.3	425.1	426.3	427.4	428.0	429.2	434.3	434.3	432.6	428.0	431.4
47.5°	398.8	396.0	398.8	402.2	402.2	404.0	409.1	413.1	410.2	404.5	406.2
50°	369.7	370.3	369.7	372.0	372.0	378.3	382.3	386.3	389.1	382.3	374.3
52.5°	341.1	340.5	341.1	342.8	345.1	348.0	354.9	358.9	363.4	359.4	346.8
55°	312.5	313.7	312.5	313.1	314.3	316.0	326.2	330.2	338.8	333.7	320.5
57.5°	284.0	282.3	284.0	285.2	285.7	287.4	296.0	303.4	308.6	309.1	293.1
60°	250.8	248.5	250.8	256.0	257.1	258.2	266.2	273.2	277.7	279.4	262.8
62.5°	221.7	217.7	221.7	225.1	227.4	230.3	236.0	246.3	250.2	250.8	227.4
65°	190.8	189.1	190.8	197.7	198.3	201.7	208.0	215.4	224.0	222.9	189.1
67.5°	162.8	162.8	162.8	167.4	170.8	172.5	180.5	184.0	194.9	196.0	157.7
70°	137.2	136.6	137.2	140.6	142.9	146.9	154.3	158.3	166.8	169.7	128.0
72.5°	112.5	112.0	112.5	115.4	117.7	121.2	127.5	132.0	139.4	142.9	99.4
75°	90.8	89.7	90.8	93.1	92.5	97.1	102.2	106.8	113.7	116.0	73.7
77.5°	69.7	69.7	69.7	72.0	72.0	76.6	78.9	84.6	88.6	92.0	54.3
80°	52.0	51.5	52.0	52.6	52.6	54.9	58.9	62.9	66.3	66.3	37.1
82.5°	36.6	35.4	36.6	36.6	36.6	37.7	40.0	41.2	43.5	45.2	23.4
85°	22.8	22.8	22.8	23.4	22.8	24.0	24.5	25.7	25.7	24.5	14.3
87.5°	14.8	14.3	14.8	14.3	14.3	13.7	13.7	13.7	13.1	12.6	8.0
90°	3.2	3.2	3.2	3.2	3.2	4.3	5.8	6.5	5.5	3.7	2.4
92.5°	13.0	10.4	13.0	15.5	16.2	23.0	32.0	36.6	32.1	23.2	16.4
95°	45.3	37.5	45.3	53.1	55.0	72.2	95.3	106.8	90.1	57.0	32.1
97.5°	108.5	93.6	108.5	123.3	127.0	137.9	152.5	159.8	132.1	76.8	35.3
100°	156.3	138.6	156.3	174.0	178.4	177.6	176.5	176.0	145.4	83.9	37.9
102.5°	203.3	188.1	203.3	218.5	222.3	208.4	189.9	180.6	149.5	87.2	40.6
105°	263.4	255.2	263.4	271.4	273.5	242.4	200.9	180.1	150.0	89.7	44.5
107.5°	302.6	304.6	302.6	300.7	300.2	256.7	198.9	169.9	143.3	90.1	50.3
110°	317.5	326.1	317.5	309.1	307.0	258.4	193.7	161.4	137.4	89.5	53.5





TEST NUMBER: P933870

CATALOG NUMBER: SQ4-FA-025U-050D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	318.9	331.9	318.9	305.9	302.6	253.0	186.8	153.6	132.2	89.5	57.4
115°	310.5	328.5	310.5	292.3	287.8	240.0	176.2	144.3	126.4	90.3	63.3
117.5°	292.5	312.6	292.5	272.5	267.4	224.2	166.7	137.9	122.6	92.0	69.0
120°	278.1	297.5	278.1	258.6	253.7	214.3	161.6	135.3	121.3	93.3	72.3
122.5°	263.9	283.2	263.9	244.7	239.9	204.4	157.0	133.3	120.6	95.3	76.3
125°	243.9	261.6	243.9	226.2	221.8	191.6	151.3	131.2	120.1	98.0	81.4
127.5°	225.9	240.8	225.9	211.0	207.2	181.3	146.7	129.4	119.8	100.6	86.2
130°	215.2	229.0	215.2	201.4	198.0	174.9	144.2	128.7	120.0	102.6	89.5
132.5°	205.6	217.9	205.6	193.2	190.2	169.5	141.9	128.1	120.1	104.1	92.1
135°	192.4	203.0	192.4	181.6	179.0	161.7	138.6	127.1	120.0	105.8	95.2
137.5°	181.7	190.5	181.7	173.0	170.8	156.2	136.7	126.9	120.7	108.4	99.1
140°	174.4	182.6	174.4	166.3	164.3	151.7	134.8	126.4	120.9	109.9	101.7
142.5°	168.4	175.4	168.4	161.5	159.7	148.6	133.8	126.4	121.3	111.3	103.7
145°	159.4	164.7	159.4	154.1	152.8	143.6	131.5	125.5	121.3	113.0	106.7
147.5°	152.4	156.9	152.4	148.1	147.0	139.8	130.3	125.5	122.2	115.4	110.4
150°	148.1	151.7	148.1	144.5	143.6	137.6	129.5	125.5	122.6	116.7	112.4
152.5°	144.3	147.1	144.3	141.7	141.0	135.8	128.9	125.5	122.9	117.6	113.7
155°	140.1	141.9	140.1	138.3	137.9	133.8	128.2	125.5	123.5	119.5	116.5
157.5°	136.7	137.9	136.7	135.4	135.0	131.9	127.6	125.5	124.1	121.3	119.3
160°	134.6	135.3	134.6	133.8	133.7	131.0	127.3	125.5	124.4	122.2	120.6
162.5°	133.3	133.9	133.3	132.6	132.4	130.1	127.0	125.5	124.7	123.1	121.9
165°	131.4	132.1	131.4	130.6	130.4	128.8	126.6	125.5	125.2	124.4	123.9
167.5°	129.9	130.3	129.9	129.7	129.6	128.5	127.0	126.4	126.0	125.4	125.0
170°	129.6	129.6	129.6	129.6	129.6	128.5	127.0	126.4	126.4	126.3	126.3
172.5°	128.6	128.3	128.6	128.8	128.9	128.1	126.9	126.4	126.4	126.4	126.4
175°	128.0	128.0	128.0	128.0	128.0	127.5	126.7	126.4	126.5	126.9	127.1
177.5°	127.5	127.1	127.5	127.7	127.8	127.4	126.8	126.5	126.7	126.9	127.1
180°	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1



TEST NUMBER: P933870  
 CATALOG NUMBER: SQ4-FA-025U-050D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	612.5	609.1	609.1	603.4	601.1	599.4	596.6	588.0	585.7	583.4	586.9
5°	617.7	611.4	606.8	596.6	588.0	584.6	573.7	553.1	539.4	529.1	523.4
7.5°	618.8	610.8	602.3	586.3	565.6	556.5	523.4	485.7	475.4	466.3	460.5
10°	617.7	608.5	596.6	572.5	524.0	508.0	474.8	450.3	444.0	442.3	444.0
12.5°	613.7	605.1	588.6	548.5	480.5	469.7	450.3	436.0	434.9	437.7	453.1
15°	606.8	598.8	579.4	516.6	456.6	448.6	434.9	429.7	436.0	456.0	502.3
17.5°	600.0	590.9	566.8	485.1	438.3	432.6	422.8	433.2	468.5	495.4	510.9
20°	590.9	580.0	552.5	462.3	425.1	420.0	415.4	461.7	488.5	498.2	506.9
22.5°	580.0	568.5	533.1	446.3	411.4	407.4	410.2	477.7	488.5	495.4	502.9
25°	565.6	555.9	510.3	433.7	400.5	396.0	406.8	476.0	482.2	483.9	498.8
27.5°	552.5	540.0	486.2	422.3	387.4	385.7	409.7	468.5	473.1	474.8	490.8
30°	536.5	517.7	459.4	410.2	373.7	373.1	410.2	459.4	458.3	462.8	478.8
32.5°	520.0	484.5	429.2	395.4	360.6	360.0	406.2	445.7	444.6	450.8	462.8
35°	504.6	458.8	388.0	378.3	344.0	344.5	396.5	429.7	430.3	436.0	443.4
37.5°	488.5	436.6	342.8	359.4	328.0	328.0	383.4	414.8	413.7	415.4	425.7
40°	469.7	401.7	302.8	334.8	313.1	311.4	367.4	398.8	394.8	394.3	408.5
42.5°	449.7	363.4	273.2	302.3	296.0	293.7	348.0	379.4	372.0	373.7	392.0
45°	428.0	353.2	250.2	255.4	278.3	276.6	326.8	357.2	352.0	356.6	375.4
47.5°	406.2	332.5	242.8	212.0	259.4	258.8	303.4	335.4	332.5	337.1	357.2
50°	376.6	309.7	242.3	181.7	238.3	240.5	275.5	314.3	314.3	318.3	339.4
52.5°	338.2	281.7	220.0	164.5	213.7	220.6	250.8	296.0	297.1	301.1	320.0
55°	303.4	252.5	204.0	151.4	184.5	199.5	226.8	277.2	279.4	283.4	300.6
57.5°	271.4	210.3	200.6	136.0	157.7	172.0	205.7	258.8	259.9	263.4	280.0
60°	237.1	152.0	184.0	119.5	134.3	145.1	186.2	237.1	241.1	243.4	257.7
62.5°	198.3	110.2	166.8	108.0	122.9	125.2	170.3	216.6	221.7	223.4	232.0
65°	141.2	92.5	141.7	98.3	110.8	111.4	153.1	195.4	200.0	202.9	209.2
67.5°	95.4	75.4	108.0	89.1	101.7	102.2	136.6	170.8	177.1	179.4	183.4
70°	66.3	50.3	80.0	79.4	91.4	92.5	118.9	148.6	154.3	156.0	158.3
72.5°	48.6	40.6	66.3	71.4	80.6	81.7	100.5	123.5	129.2	130.9	132.0
75°	37.1	42.9	53.7	62.3	68.6	69.1	82.3	100.5	104.5	105.7	106.2
77.5°	29.7	40.0	39.4	50.3	56.0	54.9	64.6	77.7	81.1	81.1	81.1
80°	22.3	31.4	29.7	36.0	41.2	40.0	46.3	55.5	56.6	57.7	57.2
82.5°	16.5	20.0	20.0	22.8	27.4	26.3	30.8	36.0	36.0	36.0	37.1
85°	10.3	11.4	9.1	12.0	15.4	14.8	17.1	19.4	20.0	20.0	18.8
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°	2.2	1.5	0.9	1.5	2.2	2.4	3.7	5.5	6.5	5.8	4.3
92.5°	15.0	9.2	3.4	9.2	15.0	16.4	23.2	32.1	36.6	32.0	23.0
95°	29.5	18.8	8.2	18.8	29.5	32.1	57.0	90.1	106.8	95.3	72.2
97.5°	32.9	23.5	14.1	23.5	32.9	35.3	76.8	132.1	159.8	152.5	137.9
100°	35.8	27.3	18.7	27.3	35.8	37.9	83.9	145.4	176.0	176.5	177.6
102.5°	38.6	30.6	22.7	30.6	38.6	40.6	87.2	149.5	180.6	189.9	208.4
105°	42.8	36.1	29.4	36.1	42.8	44.5	89.7	150.0	180.1	200.9	242.4
107.5°	48.7	42.4	36.2	42.4	48.7	50.3	90.1	143.3	169.9	198.9	256.7
110°	52.1	46.4	40.8	46.4	52.1	53.5	89.5	137.4	161.4	193.7	258.4



TEST NUMBER: P933870

CATALOG NUMBER: SQ4-FA-025U-050D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	56.1	50.7	45.3	50.7	56.1	57.4	89.5	132.2	153.6	186.8	253.0
115°	62.0	57.1	52.1	57.1	62.0	63.3	90.3	126.4	144.3	176.2	240.0
117.5°	67.9	63.4	58.9	63.4	67.9	69.0	92.0	122.6	137.9	166.7	224.2
120°	71.3	67.1	62.8	67.1	71.3	72.3	93.3	121.3	135.3	161.6	214.3
122.5°	75.1	70.9	66.6	70.9	75.1	76.3	95.3	120.6	133.3	157.0	204.4
125°	80.3	76.4	72.5	76.4	80.3	81.4	98.0	120.1	131.2	151.3	191.6
127.5°	85.2	81.3	77.3	81.3	85.2	86.2	100.6	119.8	129.4	146.7	181.3
130°	88.4	84.1	79.8	84.1	88.4	89.5	102.6	120.0	128.7	144.2	174.9
132.5°	91.1	86.8	82.6	86.8	91.1	92.1	104.1	120.1	128.1	141.9	169.5
135°	94.2	90.3	86.5	90.3	94.2	95.2	105.8	120.0	127.1	138.6	161.7
137.5°	98.2	94.3	90.5	94.3	98.2	99.1	108.4	120.7	126.9	136.7	156.2
140°	100.9	97.3	93.8	97.3	100.9	101.7	109.9	120.9	126.4	134.8	151.7
142.5°	102.8	99.6	96.4	99.6	102.8	103.7	111.3	121.3	126.4	133.8	148.6
145°	106.0	103.1	100.3	103.1	106.0	106.7	113.0	121.3	125.5	131.5	143.6
147.5°	109.7	106.9	104.2	106.9	109.7	110.4	115.4	122.2	125.5	130.3	139.8
150°	111.8	109.2	106.8	109.2	111.8	112.4	116.7	122.6	125.5	129.5	137.6
152.5°	113.1	111.3	109.4	111.3	113.1	113.7	117.6	122.9	125.5	128.9	135.8
155°	116.1	114.7	113.3	114.7	116.1	116.5	119.5	123.5	125.5	128.2	133.8
157.5°	118.9	117.6	116.2	117.6	118.9	119.3	121.3	124.1	125.5	127.6	131.9
160°	120.3	119.2	118.2	119.2	120.3	120.6	122.2	124.4	125.5	127.3	131.0
162.5°	121.8	120.9	120.1	120.9	121.8	121.9	123.1	124.7	125.5	127.0	130.1
165°	123.7	122.9	122.3	122.9	123.7	123.9	124.4	125.2	125.5	126.6	128.8
167.5°	124.9	124.6	124.2	124.6	124.9	125.0	125.4	126.0	126.4	127.0	128.5
170°	126.2	125.8	125.5	125.8	126.2	126.3	126.3	126.4	126.4	127.0	128.5
172.5°	126.4	126.3	126.2	126.3	126.4	126.4	126.4	126.4	126.4	126.9	128.1
175°	127.1	127.1	127.1	127.1	127.1	127.1	126.9	126.5	126.4	126.7	127.5
177.5°	127.1	127.1	127.1	127.1	127.1	127.1	126.9	126.7	126.5	126.8	127.4
180°	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1



TEST NUMBER: P933870

CATALOG NUMBER: SQ4-FA-025U-050D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	582.9	581.1	583.4	577.1	583.4	581.1	582.9	586.9	583.4	585.7	588.0
5°	511.4	508.6	499.4	491.9	499.4	508.6	511.4	523.4	529.1	539.4	553.1
7.5°	457.1	454.8	452.6	448.0	452.6	454.8	457.1	460.5	466.3	475.4	485.7
10°	445.1	445.7	449.1	448.6	449.1	445.7	445.1	444.0	442.3	444.0	450.3
12.5°	476.0	481.1	500.0	498.8	500.0	481.1	476.0	453.1	437.7	434.9	436.0
15°	511.4	513.1	517.1	517.7	517.1	513.1	511.4	502.3	456.0	436.0	429.7
17.5°	514.9	515.4	518.3	518.3	518.3	515.4	514.9	510.9	495.4	468.5	433.2
20°	512.0	513.1	518.9	520.0	518.9	513.1	512.0	506.9	498.2	488.5	461.7
22.5°	510.9	513.1	517.7	517.1	517.7	513.1	510.9	502.9	495.4	488.5	477.7
25°	505.2	505.2	505.7	506.3	505.7	505.2	505.2	498.8	483.9	482.2	476.0
27.5°	493.1	494.2	497.7	497.1	497.7	494.2	493.1	490.8	474.8	473.1	468.5
30°	482.2	481.1	478.2	476.0	478.2	481.1	482.2	478.8	462.8	458.3	459.4
32.5°	464.0	461.1	458.3	456.6	458.3	461.1	464.0	462.8	450.8	444.6	445.7
35°	442.3	442.9	442.3	440.6	442.3	442.9	442.3	443.4	436.0	430.3	429.7
37.5°	426.9	428.0	427.4	425.1	427.4	428.0	426.9	425.7	415.4	413.7	414.8
40°	410.8	411.4	410.8	409.1	410.8	411.4	410.8	408.5	394.3	394.8	398.8
42.5°	395.4	394.8	393.1	392.0	393.1	394.8	395.4	392.0	373.7	372.0	379.4
45°	377.7	378.3	374.8	373.1	374.8	378.3	377.7	375.4	356.6	352.0	357.2
47.5°	360.0	360.0	357.2	355.4	357.2	360.0	360.0	357.2	337.1	332.5	335.4
50°	341.1	340.5	336.5	335.9	336.5	340.5	341.1	339.4	318.3	314.3	314.3
52.5°	319.4	319.4	320.0	321.1	320.0	319.4	319.4	320.0	301.1	297.1	296.0
55°	300.6	301.1	305.1	306.3	305.1	301.1	300.6	300.6	283.4	279.4	277.2
57.5°	281.2	281.2	284.0	284.0	284.0	281.2	281.2	280.0	263.4	259.9	258.8
60°	258.8	259.9	262.2	261.7	262.2	259.9	258.8	257.7	243.4	241.1	237.1
62.5°	235.4	236.6	237.1	236.0	237.1	236.6	235.4	232.0	223.4	221.7	216.6
65°	210.9	212.0	212.6	211.4	212.6	212.0	210.9	209.2	202.9	200.0	195.4
67.5°	185.7	185.1	184.5	186.8	184.5	185.1	185.7	183.4	179.4	177.1	170.8
70°	160.0	160.0	159.4	160.6	159.4	160.0	160.0	158.3	156.0	154.3	148.6
72.5°	132.6	132.0	134.3	132.6	134.3	132.0	132.6	132.0	130.9	129.2	123.5
75°	105.7	106.8	105.7	107.4	105.7	106.8	105.7	106.2	105.7	104.5	100.5
77.5°	80.6	81.7	80.6	80.6	80.6	81.7	80.6	81.1	81.1	81.1	77.7
80°	57.2	56.6	56.6	56.0	56.6	56.6	57.2	57.2	57.7	56.6	55.5
82.5°	36.6	36.0	36.0	37.1	36.0	36.0	36.6	37.1	36.0	36.0	36.0
85°	20.0	20.5	19.4	19.4	19.4	20.5	20.0	18.8	20.0	20.0	19.4
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°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	5.8	6.5	5.5
92.5°	16.2	15.5	13.0	10.4	13.0	15.5	16.2	23.0	32.0	36.6	32.1
95°	55.0	53.1	45.3	37.5	45.3	53.1	55.0	72.2	95.3	106.8	90.1
97.5°	127.0	123.3	108.5	93.6	108.5	123.3	127.0	137.9	152.5	159.8	132.1
100°	178.4	174.0	156.3	138.6	156.3	174.0	178.4	177.6	176.5	176.0	145.4
102.5°	222.3	218.5	203.3	188.1	203.3	218.5	222.3	208.4	189.9	180.6	149.5
105°	273.5	271.4	263.4	255.2	263.4	271.4	273.5	242.4	200.9	180.1	150.0
107.5°	300.2	300.7	302.6	304.6	302.6	300.7	300.2	256.7	198.9	169.9	143.3
110°	307.0	309.1	317.5	326.1	317.5	309.1	307.0	258.4	193.7	161.4	137.4



TEST NUMBER: P933870

CATALOG NUMBER: SQ4-FA-025U-050D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	302.6	305.9	318.9	331.9	318.9	305.9	302.6	253.0	186.8	153.6	132.2
115°	287.8	292.3	310.5	328.5	310.5	292.3	287.8	240.0	176.2	144.3	126.4
117.5°	267.4	272.5	292.5	312.6	292.5	272.5	267.4	224.2	166.7	137.9	122.6
120°	253.7	258.6	278.1	297.5	278.1	258.6	253.7	214.3	161.6	135.3	121.3
122.5°	239.9	244.7	263.9	283.2	263.9	244.7	239.9	204.4	157.0	133.3	120.6
125°	221.8	226.2	243.9	261.6	243.9	226.2	221.8	191.6	151.3	131.2	120.1
127.5°	207.2	211.0	225.9	240.8	225.9	211.0	207.2	181.3	146.7	129.4	119.8
130°	198.0	201.4	215.2	229.0	215.2	201.4	198.0	174.9	144.2	128.7	120.0
132.5°	190.2	193.2	205.6	217.9	205.6	193.2	190.2	169.5	141.9	128.1	120.1
135°	179.0	181.6	192.4	203.0	192.4	181.6	179.0	161.7	138.6	127.1	120.0
137.5°	170.8	173.0	181.7	190.5	181.7	173.0	170.8	156.2	136.7	126.9	120.7
140°	164.3	166.3	174.4	182.6	174.4	166.3	164.3	151.7	134.8	126.4	120.9
142.5°	159.7	161.5	168.4	175.4	168.4	161.5	159.7	148.6	133.8	126.4	121.3
145°	152.8	154.1	159.4	164.7	159.4	154.1	152.8	143.6	131.5	125.5	121.3
147.5°	147.0	148.1	152.4	156.9	152.4	148.1	147.0	139.8	130.3	125.5	122.2
150°	143.6	144.5	148.1	151.7	148.1	144.5	143.6	137.6	129.5	125.5	122.6
152.5°	141.0	141.7	144.3	147.1	144.3	141.7	141.0	135.8	128.9	125.5	122.9
155°	137.9	138.3	140.1	141.9	140.1	138.3	137.9	133.8	128.2	125.5	123.5
157.5°	135.0	135.4	136.7	137.9	136.7	135.4	135.0	131.9	127.6	125.5	124.1
160°	133.7	133.8	134.6	135.3	134.6	133.8	133.7	131.0	127.3	125.5	124.4
162.5°	132.4	132.6	133.3	133.9	133.3	132.6	132.4	130.1	127.0	125.5	124.7
165°	130.4	130.6	131.4	132.1	131.4	130.6	130.4	128.8	126.6	125.5	125.2
167.5°	129.6	129.7	129.9	130.3	129.9	129.7	129.6	128.5	127.0	126.4	126.0
170°	129.6	129.6	129.6	129.6	129.6	129.6	129.6	128.5	127.0	126.4	126.4
172.5°	128.9	128.8	128.6	128.3	128.6	128.8	128.9	128.1	126.9	126.4	126.4
175°	128.0	128.0	128.0	128.0	128.0	128.0	128.0	127.5	126.7	126.4	126.5
177.5°	127.8	127.7	127.5	127.1	127.5	127.7	127.8	127.4	126.8	126.5	126.7
180°	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	604.0	604.0	604.0	604.0	604.0
2.5°	596.6	599.4	601.1	603.4	609.1
5°	573.7	584.6	588.0	596.6	606.8
7.5°	523.4	556.5	565.6	586.3	602.3
10°	474.8	508.0	524.0	572.5	596.6
12.5°	450.3	469.7	480.5	548.5	588.6
15°	434.9	448.6	456.6	516.6	579.4
17.5°	422.8	432.6	438.3	485.1	566.8
20°	415.4	420.0	425.1	462.3	552.5
22.5°	410.2	407.4	411.4	446.3	533.1
25°	406.8	396.0	400.5	433.7	510.3
27.5°	409.7	385.7	387.4	422.3	486.2
30°	410.2	373.1	373.7	410.2	459.4
32.5°	406.2	360.0	360.6	395.4	429.2
35°	396.5	344.5	344.0	378.3	388.0
37.5°	383.4	328.0	328.0	359.4	342.8
40°	367.4	311.4	313.1	334.8	302.8
42.5°	348.0	293.7	296.0	302.3	273.2
45°	326.8	276.6	278.3	255.4	250.2
47.5°	303.4	258.8	259.4	212.0	242.8
50°	275.5	240.5	238.3	181.7	242.3
52.5°	250.8	220.6	213.7	164.5	220.0
55°	226.8	199.5	184.5	151.4	204.0
57.5°	205.7	172.0	157.7	136.0	200.6
60°	186.2	145.1	134.3	119.5	184.0
62.5°	170.3	125.2	122.9	108.0	166.8
65°	153.1	111.4	110.8	98.3	141.7
67.5°	136.6	102.2	101.7	89.1	108.0
70°	118.9	92.5	91.4	79.4	80.0
72.5°	100.5	81.7	80.6	71.4	66.3
75°	82.3	69.1	68.6	62.3	53.7
77.5°	64.6	54.9	56.0	50.3	39.4
80°	46.3	40.0	41.2	36.0	29.7
82.5°	30.8	26.3	27.4	22.8	20.0
85°	17.1	14.8	15.4	12.0	9.1
87.5°	8.0	6.8	6.8	4.6	2.9
90°	3.7	2.4	2.2	1.5	0.9
92.5°	23.2	16.4	15.0	9.2	3.4
95°	57.0	32.1	29.5	18.8	8.2
97.5°	76.8	35.3	32.9	23.5	14.1
100°	83.9	37.9	35.8	27.3	18.7
102.5°	87.2	40.6	38.6	30.6	22.7
105°	89.7	44.5	42.8	36.1	29.4
107.5°	90.1	50.3	48.7	42.4	36.2
110°	89.5	53.5	52.1	46.4	40.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	89.5	57.4	56.1	50.7	45.3
115°	90.3	63.3	62.0	57.1	52.1
117.5°	92.0	69.0	67.9	63.4	58.9
120°	93.3	72.3	71.3	67.1	62.8
122.5°	95.3	76.3	75.1	70.9	66.6
125°	98.0	81.4	80.3	76.4	72.5
127.5°	100.6	86.2	85.2	81.3	77.3
130°	102.6	89.5	88.4	84.1	79.8
132.5°	104.1	92.1	91.1	86.8	82.6
135°	105.8	95.2	94.2	90.3	86.5
137.5°	108.4	99.1	98.2	94.3	90.5
140°	109.9	101.7	100.9	97.3	93.8
142.5°	111.3	103.7	102.8	99.6	96.4
145°	113.0	106.7	106.0	103.1	100.3
147.5°	115.4	110.4	109.7	106.9	104.2
150°	116.7	112.4	111.8	109.2	106.8
152.5°	117.6	113.7	113.1	111.3	109.4
155°	119.5	116.5	116.1	114.7	113.3
157.5°	121.3	119.3	118.9	117.6	116.2
160°	122.2	120.6	120.3	119.2	118.2
162.5°	123.1	121.9	121.8	120.9	120.1
165°	124.4	123.9	123.7	122.9	122.3
167.5°	125.4	125.0	124.9	124.6	124.2
170°	126.3	126.3	126.2	125.8	125.5
172.5°	126.4	126.4	126.4	126.3	126.2
175°	126.9	127.1	127.1	127.1	127.1
177.5°	126.9	127.1	127.1	127.1	127.1
180°	127.1	127.1	127.1	127.1	127.1



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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	12.10	13.12	12.91	13.96	14.99	14.90	15.92	15.71	16.76	17.79
	3H	12.59	13.51	13.42	14.35	15.41	16.25	17.16	17.07	18.01	19.07
	4H	12.79	13.66	13.63	14.51	15.58	16.69	17.56	17.53	18.41	19.48
	6H	12.92	13.72	13.77	14.57	15.66	16.98	17.78	17.83	18.63	19.72
	8H	12.92	13.68	13.79	14.56	15.64	17.05	17.81	17.92	18.69	19.77
	12H	12.90	13.62	13.77	14.49	15.60	17.09	17.82	17.96	18.69	19.80
4H	2H	13.15	14.01	13.99	14.86	15.93	15.33	16.20	16.18	17.05	18.12
	3H	14.19	14.91	15.05	15.79	16.88	16.84	17.56	17.70	18.45	19.53
	4H	14.47	15.13	15.34	16.01	17.12	17.37	18.03	18.24	18.91	20.02
	6H	14.61	15.17	15.49	16.08	17.19	17.74	18.30	18.62	19.21	20.32
	8H	14.62	15.15	15.50	16.04	17.17	17.84	18.37	18.73	19.27	20.40
	12H	14.59	15.07	15.50	15.99	17.12	17.90	18.38	18.81	19.30	20.43
8H	4H	14.93	15.46	15.82	16.36	17.49	17.51	18.04	18.40	18.94	20.07
	6H	15.20	15.64	16.12	16.58	17.71	17.94	18.38	18.86	19.32	20.45
	8H	15.25	15.63	16.17	16.57	17.71	18.09	18.48	19.02	19.41	20.56
	12H	15.24	15.58	16.17	16.50	17.70	18.19	18.53	19.12	19.46	20.66
12H	4H	14.95	15.42	15.85	16.34	17.48	17.48	17.96	18.39	18.88	20.01
	6H	15.26	15.65	16.19	16.58	17.73	17.94	18.33	18.87	19.26	20.41
	8H	15.34	15.68	16.27	16.60	17.80	18.11	18.45	19.04	19.37	20.57