

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: P934610

Luminaire Tested: SQ4-FA-075U-050D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934610
REPORT IS A COMBINATION OF REPORTS P933706 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

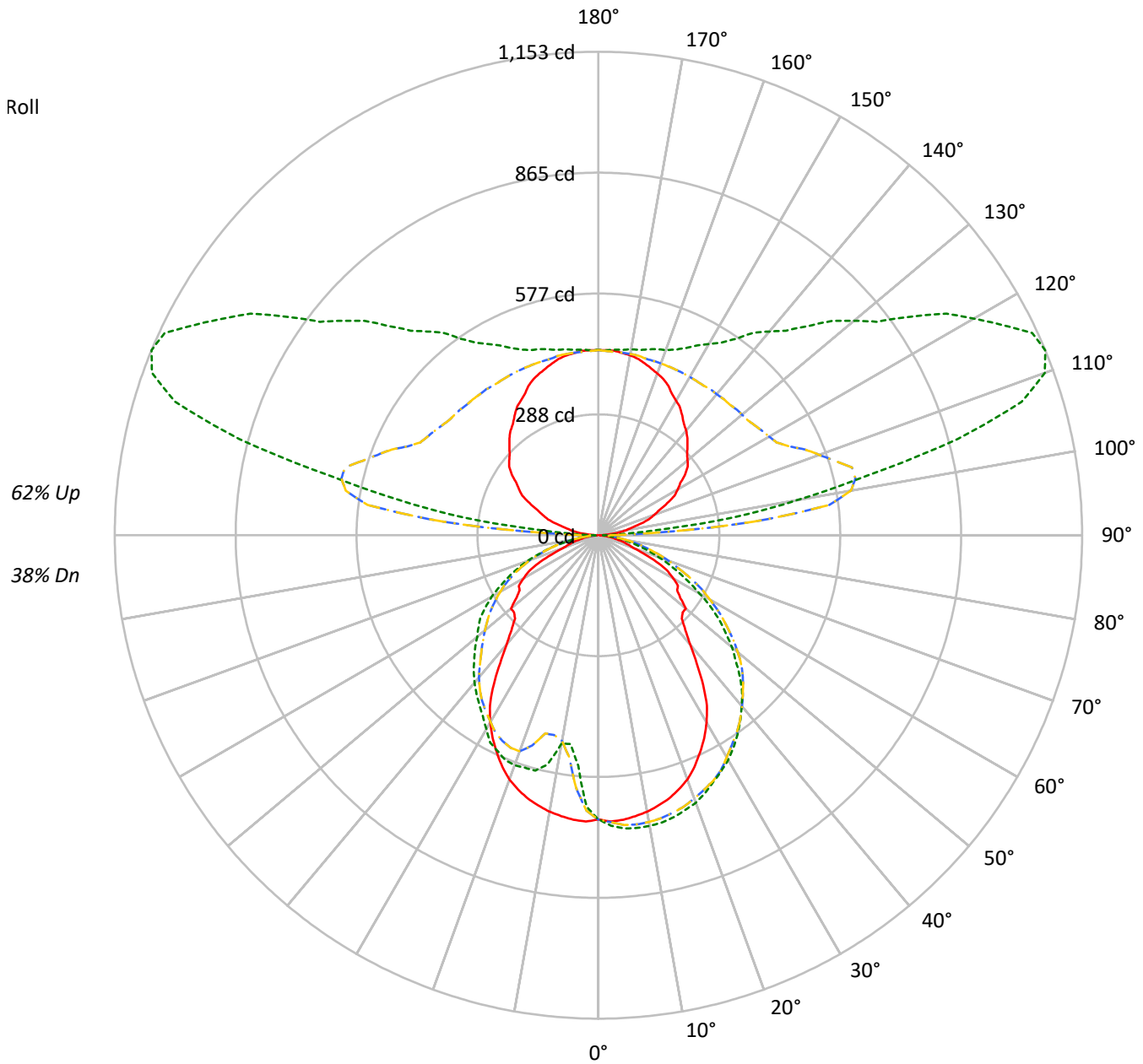
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4621.3 lumens
Efficiency: N/A
Efficacy: 134.3 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): 34.4
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: P934610
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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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20				20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11				11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10				10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6289	6289	6289	6289
5°	6329	6348	6329	4991
10°	6280	6253	6280	4470
15°	6204	6118	6204	5108
20°	6067	5957	6067	5119
25°	5794	5723	5794	5011
30°	5445	5529	5445	4773
35°	4847	5283	4847	4510
40°	4031	4993	4031	4313
45°	3595	4655	3595	4085
50°	3812	4251	3812	3857
55°	3575	3816	3575	3726
60°	3673	3241	3673	3412
65°	3313	2678	3313	2994
70°	2280	2134	2280	2510
75°	1974	1579	1974	1891
80°	1563	1043	1563	1135
85°	845	552	845	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5521 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	1.3
10°-20°	173.7	3.8
20°-30°	268.5	5.8
30°-40°	320.5	6.9
40°-50°	322.4	7.0
50°-60°	280.5	6.1
60°-70°	198.9	4.3
70°-80°	105.2	2.3
80°-90°	27.9	0.6
90°-100°	215.3	4.7
100°-110°	565.9	12.2
110°-120°	586.8	12.7
120°-130°	470.7	10.2
130°-140°	369.3	8.0
140°-150°	283.4	6.1
150°-160°	204.1	4.4
160°-170°	124.9	2.7
170°-180°	42.2	0.9
0°-30°	503.4	10.9
0°-40°	823.9	17.8
0°-60°	1426.8	30.9
0°-90°	1758.8	38.1
90°-120°	1367.9	29.6
90°-150°	2491.3	53.9
90°-180°	2863.0	62.0
0°-180°	4621.3	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°	572	649	572	568	572	263
35°	435	579	435	494	435	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°	3	11	3	11	3	3
95°	28	130	28	130	28	32
105°	102	886	102	886	102	108
115°	181	1141	181	1141	181	179
125°	252	909	252	909	252	224
135°	300	705	300	705	300	232
145°	348	572	348	572	348	218
155°	394	492	394	492	394	181
165°	425	459	425	459	425	120
175°	442	444	442	444	442	42
180°	442	442	442	442	442	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
2.5°	683.4	683.4	687.3	688.6	688.6	686.7	684.8	686.7	692.4	694.3	693.7
5°	680.9	686.0	693.1	694.3	695.7	695.0	693.7	695.0	701.4	702.7	703.3
7.5°	675.8	685.4	694.3	696.3	698.2	696.3	695.7	696.9	703.3	704.6	704.6
10°	669.4	682.8	693.1	694.3	696.3	694.3	694.3	696.9	703.3	704.6	705.2
12.5°	660.4	679.0	688.6	689.8	692.4	691.8	691.2	693.7	700.2	701.4	701.4
15°	650.1	671.9	680.9	682.2	686.7	685.4	685.4	687.9	695.0	696.9	696.3
17.5°	636.0	663.0	673.2	675.1	678.4	677.7	678.4	680.9	687.3	688.6	689.3
20°	620.0	650.7	663.0	664.9	668.1	668.1	668.1	671.3	677.7	680.3	680.3
22.5°	598.2	637.9	650.7	652.1	655.9	655.9	657.2	661.6	667.4	668.1	668.1
25°	572.5	623.8	634.7	638.6	642.4	644.3	646.3	648.8	650.7	650.1	650.7
27.5°	545.6	605.9	620.0	622.5	627.7	629.6	632.2	632.8	633.4	635.4	634.1
30°	515.5	580.9	602.0	604.6	612.9	614.2	611.6	612.9	616.1	617.4	618.7
32.5°	481.5	543.7	583.4	589.2	596.9	593.1	592.4	594.3	599.5	599.5	600.8
35°	435.4	514.8	566.1	571.3	577.0	572.5	575.1	575.7	579.0	580.9	580.2
37.5°	384.7	489.9	548.2	552.0	556.5	550.8	554.6	556.5	559.1	557.8	557.8
40°	339.8	450.8	527.0	529.6	533.4	529.0	532.8	534.1	535.4	534.1	533.4
42.5°	306.5	407.7	504.6	507.8	505.2	508.4	509.7	512.3	510.3	507.8	507.8
45°	280.8	396.3	480.2	484.0	480.2	485.4	487.3	487.3	481.5	480.2	479.5
47.5°	272.5	373.1	455.8	455.8	453.9	460.3	463.6	459.1	453.3	451.3	451.3
50°	271.9	347.5	422.6	420.0	429.0	436.6	433.5	429.0	424.5	417.4	417.4
52.5°	246.8	316.1	379.5	389.2	403.2	407.7	402.7	398.2	390.4	387.3	384.7
55°	228.9	283.4	340.4	359.6	374.5	380.2	370.5	366.1	354.6	352.7	351.3
57.5°	225.0	235.9	304.6	328.9	346.8	346.3	340.4	332.1	322.5	320.5	320.0
60°	206.5	170.6	266.1	294.9	313.5	311.6	306.5	298.8	289.8	288.5	287.3
62.5°	187.2	123.7	222.5	255.2	281.4	280.8	276.4	264.8	258.4	255.2	252.6
65°	159.0	103.8	158.4	212.2	250.1	251.3	241.7	233.4	226.3	222.5	221.8
67.5°	121.2	84.6	107.1	177.0	219.9	218.6	206.5	202.6	193.6	191.7	187.9
70°	89.8	56.4	74.4	143.6	190.4	187.2	177.6	173.1	164.8	160.3	157.7
72.5°	74.4	45.5	54.5	111.6	160.3	156.4	148.1	143.0	135.9	132.1	129.5
75°	60.2	48.1	41.7	82.7	130.1	127.6	119.9	114.7	109.0	103.8	104.5
77.5°	44.3	44.8	33.4	60.9	103.2	99.4	94.9	88.5	85.9	80.8	80.8
80°	33.4	35.3	25.0	41.7	74.4	74.4	70.6	66.1	61.6	59.0	59.0
82.5°	22.5	22.5	18.5	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	14.1	14.7	15.4	15.4	15.4	16.1	16.1
90°	3.0	5.4	7.7	8.3	13.1	19.4	22.6	20.1	15.0	11.3	11.3
92.5°	11.9	32.0	52.1	57.2	80.4	111.4	126.9	111.2	79.8	56.3	54.1
95°	28.5	65.4	102.3	111.5	197.9	313.1	370.7	330.8	251.0	191.1	184.3
97.5°	49.2	81.7	114.2	122.4	266.5	458.7	554.8	529.5	479.1	441.3	428.4
100°	65.2	94.6	124.2	131.5	291.5	504.8	611.4	613.2	616.9	619.7	604.3
102.5°	78.9	106.4	133.8	140.7	303.0	519.3	627.4	659.5	723.8	772.0	758.8
105°	101.9	125.2	148.6	154.4	311.5	520.9	625.6	697.7	841.8	949.8	942.7
107.5°	125.6	147.4	169.1	174.6	313.1	497.7	590.0	690.5	891.5	1042.2	1044.0
110°	141.7	161.3	181.0	185.8	310.7	477.1	560.4	672.7	897.4	1065.9	1073.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.4	176.1	194.7	199.4	310.8	459.3	533.4	648.5	878.4	1050.8	1062.2
115°	181.1	198.3	215.6	219.9	313.7	438.6	501.1	611.9	833.4	999.6	1015.3
117.5°	204.5	220.2	235.8	239.8	319.5	425.7	478.9	578.9	778.8	928.8	946.2
120°	218.2	232.9	247.6	251.3	324.2	421.4	470.0	561.4	744.1	881.0	898.0
122.5°	231.4	246.4	261.2	264.9	331.0	419.1	463.2	545.4	709.9	833.3	850.1
125°	251.9	265.5	279.1	282.4	340.2	417.3	455.8	525.7	665.5	770.2	785.6
127.5°	268.5	282.2	295.9	299.3	349.4	416.2	449.6	509.6	629.6	719.6	732.6
130°	277.4	292.2	306.9	310.6	356.1	416.8	447.2	500.7	607.4	687.6	699.5
132.5°	286.6	301.3	316.1	319.8	361.6	417.3	445.1	492.9	588.6	660.3	671.0
135°	300.2	313.6	327.0	330.4	367.5	416.9	441.6	481.6	561.7	621.8	631.1
137.5°	314.1	327.4	340.7	344.1	376.4	419.5	441.0	474.8	542.5	593.3	600.8
140°	325.7	337.9	350.2	353.2	381.8	419.9	438.9	468.2	526.6	570.4	577.5
142.5°	334.6	345.9	357.2	360.0	386.3	421.4	438.9	464.6	516.0	554.5	560.6
145°	348.2	358.1	368.0	370.4	392.2	421.4	435.9	457.0	498.9	530.5	535.1
147.5°	361.8	371.4	381.1	383.5	400.9	424.3	435.9	452.5	485.6	510.3	514.1
150°	370.7	379.4	388.1	390.3	405.5	425.8	435.9	449.9	477.8	498.7	501.8
152.5°	379.9	386.5	393.1	394.7	408.5	426.8	435.9	447.9	471.7	489.6	491.9
155°	393.6	398.5	403.2	404.5	415.0	429.0	435.9	445.4	464.3	478.6	480.1
157.5°	403.6	408.4	413.2	414.3	421.5	431.2	435.9	443.3	458.0	469.1	470.2
160°	410.4	414.1	417.8	418.7	424.5	432.1	435.9	442.2	455.0	464.4	465.0
162.5°	417.3	420.1	422.8	423.5	427.6	433.2	435.9	441.3	451.9	459.9	460.5
165°	424.7	427.1	429.6	430.3	432.2	434.7	435.9	439.8	447.4	453.1	453.8
167.5°	431.4	432.6	433.8	434.1	435.7	437.8	438.9	441.4	446.5	450.2	450.5
170°	435.9	437.1	438.3	438.6	438.7	438.8	438.9	441.4	446.5	450.2	450.2
172.5°	438.3	438.6	438.8	438.9	438.9	438.9	438.9	440.9	444.8	447.8	447.6
175°	441.6	441.6	441.6	441.6	440.7	439.5	438.9	440.1	442.6	444.5	444.5
177.5°	441.6	441.6	441.6	441.6	440.9	440.0	439.5	440.4	442.4	444.0	443.7
180°	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
2.5°	695.0	693.1	695.0	693.7	694.3	692.4	686.7	684.8	686.7	688.6	688.6
5°	703.3	702.1	703.3	703.3	702.7	701.4	695.0	693.7	695.0	695.7	694.3
7.5°	705.9	704.0	705.9	704.6	704.6	703.3	696.9	695.7	696.3	698.2	696.3
10°	705.9	704.0	705.9	705.2	704.6	703.3	696.9	694.3	694.3	696.3	694.3
12.5°	702.7	701.4	702.7	701.4	701.4	700.2	693.7	691.2	691.8	692.4	689.8
15°	697.6	695.7	697.6	696.3	696.9	695.0	687.9	685.4	685.4	686.7	682.2
17.5°	689.8	687.3	689.8	689.3	688.6	687.3	680.9	678.4	677.7	678.4	675.1
20°	680.9	679.0	680.9	680.3	680.3	677.7	671.3	668.1	668.1	668.1	664.9
22.5°	666.8	664.9	666.8	668.1	668.1	667.4	661.6	657.2	655.9	655.9	652.1
25°	650.7	648.8	650.7	650.7	650.1	650.7	648.8	646.3	644.3	642.4	638.6
27.5°	635.4	634.1	635.4	634.1	635.4	633.4	632.8	632.2	629.6	627.7	622.5
30°	620.0	618.7	620.0	618.7	617.4	616.1	612.9	611.6	614.2	612.9	604.6
32.5°	600.8	599.5	600.8	600.8	599.5	599.5	594.3	592.4	593.1	596.9	589.2
35°	580.9	579.0	580.9	580.2	580.9	579.0	575.7	575.1	572.5	577.0	571.3
37.5°	557.8	555.9	557.8	557.8	557.8	559.1	556.5	554.6	550.8	556.5	552.0
40°	534.1	531.5	534.1	533.4	534.1	535.4	534.1	532.8	529.0	533.4	529.6
42.5°	507.2	506.5	507.2	507.8	507.8	510.3	512.3	509.7	508.4	505.2	507.8
45°	478.3	477.0	478.3	479.5	480.2	481.5	487.3	487.3	485.4	480.2	484.0
47.5°	447.5	444.3	447.5	451.3	451.3	453.3	459.1	463.6	460.3	453.9	455.8
50°	414.8	415.5	414.8	417.4	417.4	424.5	429.0	433.5	436.6	429.0	420.0
52.5°	382.8	382.1	382.8	384.7	387.3	390.4	398.2	402.7	407.7	403.2	389.2
55°	350.7	352.0	350.7	351.3	352.7	354.6	366.1	370.5	380.2	374.5	359.6
57.5°	318.6	316.7	318.6	320.0	320.5	322.5	332.1	340.4	346.3	346.8	328.9
60°	281.4	278.9	281.4	287.3	288.5	289.8	298.8	306.5	311.6	313.5	294.9
62.5°	248.8	244.3	248.8	252.6	255.2	258.4	264.8	276.4	280.8	281.4	255.2
65°	214.1	212.2	214.1	221.8	222.5	226.3	233.4	241.7	251.3	250.1	212.2
67.5°	182.7	182.7	182.7	187.9	191.7	193.6	202.6	206.5	218.6	219.9	177.0
70°	153.9	153.2	153.9	157.7	160.3	164.8	173.1	177.6	187.2	190.4	143.6
72.5°	126.3	125.6	126.3	129.5	132.1	135.9	143.0	148.1	156.4	160.3	111.6
75°	101.9	100.7	101.9	104.5	103.8	109.0	114.7	119.9	127.6	130.1	82.7
77.5°	78.2	78.2	78.2	80.8	80.8	85.9	88.5	94.9	99.4	103.2	60.9
80°	58.3	57.7	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	14.1	9.0
90°	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.6	19.4	13.1	8.3
92.5°	45.1	36.1	45.1	54.1	56.3	79.8	111.2	126.9	111.4	80.4	57.2
95°	157.3	130.1	157.3	184.3	191.1	251.0	330.8	370.7	313.1	197.9	111.5
97.5°	376.8	325.1	376.8	428.4	441.3	479.1	529.5	554.8	458.7	266.5	122.4
100°	542.8	481.3	542.8	604.3	619.7	616.9	613.2	611.4	504.8	291.5	131.5
102.5°	706.1	653.4	706.1	758.8	772.0	723.8	659.5	627.4	519.3	303.0	140.7
105°	914.4	886.1	914.4	942.7	949.8	841.8	697.7	625.6	520.9	311.5	154.4
107.5°	1050.8	1057.7	1050.8	1044.0	1042.2	891.5	690.5	590.0	497.7	313.1	174.6
110°	1102.8	1132.4	1102.8	1073.3	1065.9	897.4	672.7	560.4	477.1	310.7	185.8



TEST NUMBER: P934610

CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1107.5	1152.8	1107.5	1062.2	1050.8	878.4	648.5	533.4	459.3	310.8	199.4
115°	1078.2	1141.0	1078.2	1015.3	999.6	833.4	611.9	501.1	438.6	313.7	219.9
117.5°	1015.8	1085.5	1015.8	946.2	928.8	778.8	578.9	478.9	425.7	319.5	239.8
120°	965.7	1033.3	965.7	898.0	881.0	744.1	561.4	470.0	421.4	324.2	251.3
122.5°	916.8	983.6	916.8	850.1	833.3	709.9	545.4	463.2	419.1	331.0	264.9
125°	847.1	908.6	847.1	785.6	770.2	665.5	525.7	455.8	417.3	340.2	282.4
127.5°	784.4	836.3	784.4	732.6	719.6	629.6	509.6	449.6	416.2	349.4	299.3
130°	747.5	795.4	747.5	699.5	687.6	607.4	500.7	447.2	416.8	356.1	310.6
132.5°	713.9	756.9	713.9	671.0	660.3	588.6	492.9	445.1	417.3	361.6	319.8
135°	668.1	705.0	668.1	631.1	621.8	561.7	481.6	441.6	416.9	367.5	330.4
137.5°	631.2	661.5	631.2	600.8	593.3	542.5	474.8	441.0	419.5	376.4	344.1
140°	605.9	634.2	605.9	577.5	570.4	526.6	468.2	438.9	419.9	381.8	353.2
142.5°	584.9	609.3	584.9	560.6	554.5	516.0	464.6	438.9	421.4	386.3	360.0
145°	553.5	572.0	553.5	535.1	530.5	498.9	457.0	435.9	421.4	392.2	370.4
147.5°	529.4	544.7	529.4	514.1	510.3	485.6	452.5	435.9	424.3	400.9	383.5
150°	514.2	526.7	514.2	501.8	498.7	477.8	449.9	435.9	425.8	405.5	390.3
152.5°	501.2	510.6	501.2	491.9	489.6	471.7	447.9	435.9	426.8	408.5	394.7
155°	486.3	492.5	486.3	480.1	478.6	464.3	445.4	435.9	429.0	415.0	404.5
157.5°	474.6	478.9	474.6	470.2	469.1	458.0	443.3	435.9	431.2	421.5	414.3
160°	467.5	470.0	467.5	465.0	464.4	455.0	442.2	435.9	432.1	424.5	418.7
162.5°	462.9	465.3	462.9	460.5	459.9	451.9	441.3	435.9	433.2	427.6	423.5
165°	456.3	458.8	456.3	453.8	453.1	447.4	439.8	435.9	434.7	432.2	430.3
167.5°	451.5	452.6	451.5	450.5	450.2	446.5	441.4	438.9	437.8	435.7	434.1
170°	450.2	450.2	450.2	450.2	450.2	446.5	441.4	438.9	438.8	438.7	438.6
172.5°	446.6	445.7	446.6	447.6	447.8	444.8	440.9	438.9	438.9	438.9	438.9
175°	444.5	444.5	444.5	444.5	444.5	442.6	440.1	438.9	439.5	440.7	441.6
177.5°	442.6	441.6	442.6	443.7	444.0	442.4	440.4	439.5	440.0	440.9	441.6
180°	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6



TEST NUMBER: P934610

CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
2.5°	687.3	683.4	683.4	677.0	674.5	672.5	669.4	659.7	657.2	654.6	658.5
5°	693.1	686.0	680.9	669.4	659.7	655.9	643.7	620.6	605.2	593.7	587.3
7.5°	694.3	685.4	675.8	657.8	634.7	624.5	587.3	545.0	533.4	523.2	516.7
10°	693.1	682.8	669.4	642.4	587.9	570.0	532.8	505.2	498.2	496.3	498.2
12.5°	688.6	679.0	660.4	615.5	539.2	527.0	505.2	489.2	487.9	491.1	508.4
15°	680.9	671.9	650.1	579.6	512.3	503.3	487.9	482.1	489.2	511.7	563.6
17.5°	673.2	663.0	636.0	544.3	491.8	485.4	474.5	486.0	525.7	555.9	573.2
20°	663.0	650.7	620.0	518.7	477.0	471.2	466.1	518.1	548.2	559.1	568.7
22.5°	650.7	637.9	598.2	500.8	461.7	457.2	460.3	536.0	548.2	555.9	564.2
25°	634.7	623.8	572.5	486.6	449.4	444.3	456.5	534.1	541.1	543.0	559.7
27.5°	620.0	605.9	545.6	473.8	434.7	432.8	459.7	525.7	530.9	532.8	550.8
30°	602.0	580.9	515.5	460.3	419.3	418.6	460.3	515.5	514.2	519.3	537.3
32.5°	583.4	543.7	481.5	443.7	404.6	403.9	455.8	500.1	498.8	505.8	519.3
35°	566.1	514.8	435.4	424.5	385.9	386.6	444.9	482.1	482.8	489.2	497.5
37.5°	548.2	489.9	384.7	403.2	368.1	368.1	430.2	465.5	464.2	466.1	477.6
40°	527.0	450.8	339.8	375.7	351.3	349.4	412.2	447.5	443.0	442.4	458.4
42.5°	504.6	407.7	306.5	339.2	332.1	329.5	390.4	425.7	417.4	419.3	439.9
45°	480.2	396.3	280.8	286.6	312.2	310.3	366.7	400.8	394.9	400.1	421.2
47.5°	455.8	373.1	272.5	237.9	291.1	290.4	340.4	376.4	373.1	378.3	400.8
50°	422.6	347.5	271.9	203.9	267.4	269.9	309.1	352.7	352.7	357.2	380.9
52.5°	379.5	316.1	246.8	184.6	239.8	247.5	281.4	332.1	333.4	337.9	359.1
55°	340.4	283.4	228.9	169.9	207.1	223.8	254.5	311.0	313.5	318.0	337.3
57.5°	304.6	235.9	225.0	152.6	177.0	193.0	230.8	290.4	291.7	295.6	314.1
60°	266.1	170.6	206.5	134.0	150.7	162.8	209.0	266.1	270.5	273.1	289.2
62.5°	222.5	123.7	187.2	121.2	137.9	140.4	191.1	243.0	248.8	250.7	260.3
65°	158.4	103.8	159.0	110.3	124.4	125.0	171.8	219.3	224.4	227.6	234.7
67.5°	107.1	84.6	121.2	100.0	114.1	114.7	153.2	191.7	198.8	201.3	205.8
70°	74.4	56.4	89.8	89.1	102.6	103.8	133.4	166.7	173.1	175.0	177.6
72.5°	54.5	45.5	74.4	80.1	90.4	91.7	112.8	138.5	144.9	146.8	148.1
75°	41.7	48.1	60.2	69.9	77.0	77.5	92.3	112.8	117.3	118.6	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°	25.0	35.3	33.4	40.4	46.2	44.8	51.9	62.2	63.5	64.7	64.1
82.5°	18.5	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°	7.7	5.4	3.0	5.4	7.7	8.3	13.1	19.4	22.6	20.1	15.0
92.5°	52.1	32.0	11.9	32.0	52.1	57.2	80.4	111.4	126.9	111.2	79.8
95°	102.3	65.4	28.5	65.4	102.3	111.5	197.9	313.1	370.7	330.8	251.0
97.5°	114.2	81.7	49.2	81.7	114.2	122.4	266.5	458.7	554.8	529.5	479.1
100°	124.2	94.6	65.2	94.6	124.2	131.5	291.5	504.8	611.4	613.2	616.9
102.5°	133.8	106.4	78.9	106.4	133.8	140.7	303.0	519.3	627.4	659.5	723.8
105°	148.6	125.2	101.9	125.2	148.6	154.4	311.5	520.9	625.6	697.7	841.8
107.5°	169.1	147.4	125.6	147.4	169.1	174.6	313.1	497.7	590.0	690.5	891.5
110°	181.0	161.3	141.7	161.3	181.0	185.8	310.7	477.1	560.4	672.7	897.4



TEST NUMBER: P934610

CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	194.7	176.1	157.4	176.1	194.7	199.4	310.8	459.3	533.4	648.5	878.4
115°	215.6	198.3	181.1	198.3	215.6	219.9	313.7	438.6	501.1	611.9	833.4
117.5°	235.8	220.2	204.5	220.2	235.8	239.8	319.5	425.7	478.9	578.9	778.8
120°	247.6	232.9	218.2	232.9	247.6	251.3	324.2	421.4	470.0	561.4	744.1
122.5°	261.2	246.4	231.4	246.4	261.2	264.9	331.0	419.1	463.2	545.4	709.9
125°	279.1	265.5	251.9	265.5	279.1	282.4	340.2	417.3	455.8	525.7	665.5
127.5°	295.9	282.2	268.5	282.2	295.9	299.3	349.4	416.2	449.6	509.6	629.6
130°	306.9	292.2	277.4	292.2	306.9	310.6	356.1	416.8	447.2	500.7	607.4
132.5°	316.1	301.3	286.6	301.3	316.1	319.8	361.6	417.3	445.1	492.9	588.6
135°	327.0	313.6	300.2	313.6	327.0	330.4	367.5	416.9	441.6	481.6	561.7
137.5°	340.7	327.4	314.1	327.4	340.7	344.1	376.4	419.5	441.0	474.8	542.5
140°	350.2	337.9	325.7	337.9	350.2	353.2	381.8	419.9	438.9	468.2	526.6
142.5°	357.2	345.9	334.6	345.9	357.2	360.0	386.3	421.4	438.9	464.6	516.0
145°	368.0	358.1	348.2	358.1	368.0	370.4	392.2	421.4	435.9	457.0	498.9
147.5°	381.1	371.4	361.8	371.4	381.1	383.5	400.9	424.3	435.9	452.5	485.6
150°	388.1	379.4	370.7	379.4	388.1	390.3	405.5	425.8	435.9	449.9	477.8
152.5°	393.1	386.5	379.9	386.5	393.1	394.7	408.5	426.8	435.9	447.9	471.7
155°	403.2	398.5	393.6	398.5	403.2	404.5	415.0	429.0	435.9	445.4	464.3
157.5°	413.2	408.4	403.6	408.4	413.2	414.3	421.5	431.2	435.9	443.3	458.0
160°	417.8	414.1	410.4	414.1	417.8	418.7	424.5	432.1	435.9	442.2	455.0
162.5°	422.8	420.1	417.3	420.1	422.8	423.5	427.6	433.2	435.9	441.3	451.9
165°	429.6	427.1	424.7	427.1	429.6	430.3	432.2	434.7	435.9	439.8	447.4
167.5°	433.8	432.6	431.4	432.6	433.8	434.1	435.7	437.8	438.9	441.4	446.5
170°	438.3	437.1	435.9	437.1	438.3	438.6	438.7	438.8	438.9	441.4	446.5
172.5°	438.8	438.6	438.3	438.6	438.8	438.9	438.9	438.9	438.9	440.9	444.8
175°	441.6	441.6	441.6	441.6	441.6	441.6	440.7	439.5	438.9	440.1	442.6
177.5°	441.6	441.6	441.6	441.6	441.6	441.6	440.9	440.0	439.5	440.4	442.4
180°	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6



TEST NUMBER: P934610
 CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
2.5°	654.0	652.1	654.6	647.6	654.6	652.1	654.0	658.5	654.6	657.2	659.7
5°	573.8	570.6	560.4	552.0	560.4	570.6	573.8	587.3	593.7	605.2	620.6
7.5°	512.9	510.3	507.8	502.7	507.8	510.3	512.9	516.7	523.2	533.4	545.0
10°	499.4	500.1	503.9	503.3	503.9	500.1	499.4	498.2	496.3	498.2	505.2
12.5°	534.1	539.9	561.0	559.7	561.0	539.9	534.1	508.4	491.1	487.9	489.2
15°	573.8	575.7	580.2	580.9	580.2	575.7	573.8	563.6	511.7	489.2	482.1
17.5°	577.7	578.3	581.5	581.5	581.5	578.3	577.7	573.2	555.9	525.7	486.0
20°	574.5	575.7	582.2	583.4	582.2	575.7	574.5	568.7	559.1	548.2	518.1
22.5°	573.2	575.7	580.9	580.2	580.9	575.7	573.2	564.2	555.9	548.2	536.0
25°	566.8	566.8	567.4	568.1	567.4	566.8	566.8	559.7	543.0	541.1	534.1
27.5°	553.3	554.6	558.4	557.8	558.4	554.6	553.3	550.8	532.8	530.9	525.7
30°	541.1	539.9	536.6	534.1	536.6	539.9	541.1	537.3	519.3	514.2	515.5
32.5°	520.6	517.4	514.2	512.3	514.2	517.4	520.6	519.3	505.8	498.8	500.1
35°	496.3	496.9	496.3	494.3	496.3	496.9	496.3	497.5	489.2	482.8	482.1
37.5°	479.0	480.2	479.5	477.0	479.5	480.2	479.0	477.6	466.1	464.2	465.5
40°	461.0	461.7	461.0	459.1	461.0	461.7	461.0	458.4	442.4	443.0	447.5
42.5°	443.7	443.0	441.1	439.9	441.1	443.0	443.7	439.9	419.3	417.4	425.7
45°	423.8	424.5	420.5	418.6	420.5	424.5	423.8	421.2	400.1	394.9	400.8
47.5°	403.9	403.9	400.8	398.7	400.8	403.9	403.9	400.8	378.3	373.1	376.4
50°	382.8	382.1	377.6	377.0	377.6	382.1	382.8	380.9	357.2	352.7	352.7
52.5°	358.4	358.4	359.1	360.3	359.1	358.4	358.4	359.1	337.9	333.4	332.1
55°	337.3	337.9	342.3	343.7	342.3	337.9	337.3	337.3	318.0	313.5	311.0
57.5°	315.5	315.5	318.6	318.6	318.6	315.5	315.5	314.1	295.6	291.7	290.4
60°	290.4	291.7	294.3	293.7	294.3	291.7	290.4	289.2	273.1	270.5	266.1
62.5°	264.1	265.5	266.1	264.8	266.1	265.5	264.1	260.3	250.7	248.8	243.0
65°	236.6	237.9	238.5	237.2	238.5	237.9	236.6	234.7	227.6	224.4	219.3
67.5°	208.4	207.7	207.1	209.7	207.1	207.7	208.4	205.8	201.3	198.8	191.7
70°	179.5	179.5	178.9	180.2	178.9	179.5	179.5	177.6	175.0	173.1	166.7
72.5°	148.8	148.1	150.7	148.8	150.7	148.1	148.8	148.1	146.8	144.9	138.5
75°	118.6	119.9	118.6	120.6	118.6	119.9	118.6	119.2	118.6	117.3	112.8
77.5°	90.4	91.7	90.4	90.4	90.4	91.7	90.4	91.0	91.0	91.0	87.2
80°	64.1	63.5	63.5	62.8	63.5	63.5	64.1	64.1	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°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	15.0	20.1	22.6	19.4
92.5°	56.3	54.1	45.1	36.1	45.1	54.1	56.3	79.8	111.2	126.9	111.4
95°	191.1	184.3	157.3	130.1	157.3	184.3	191.1	251.0	330.8	370.7	313.1
97.5°	441.3	428.4	376.8	325.1	376.8	428.4	441.3	479.1	529.5	554.8	458.7
100°	619.7	604.3	542.8	481.3	542.8	604.3	619.7	616.9	613.2	611.4	504.8
102.5°	772.0	758.8	706.1	653.4	706.1	758.8	772.0	723.8	659.5	627.4	519.3
105°	949.8	942.7	914.4	886.1	914.4	942.7	949.8	841.8	697.7	625.6	520.9
107.5°	1042.2	1044.0	1050.8	1057.7	1050.8	1044.0	1042.2	891.5	690.5	590.0	497.7
110°	1065.9	1073.3	1102.8	1132.4	1102.8	1073.3	1065.9	897.4	672.7	560.4	477.1



TEST NUMBER: P934610

CATALOG NUMBER: SQ4-FA-075U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1050.8	1062.2	1107.5	1152.8	1107.5	1062.2	1050.8	878.4	648.5	533.4	459.3
115°	999.6	1015.3	1078.2	1141.0	1078.2	1015.3	999.6	833.4	611.9	501.1	438.6
117.5°	928.8	946.2	1015.8	1085.5	1015.8	946.2	928.8	778.8	578.9	478.9	425.7
120°	881.0	898.0	965.7	1033.3	965.7	898.0	881.0	744.1	561.4	470.0	421.4
122.5°	833.3	850.1	916.8	983.6	916.8	850.1	833.3	709.9	545.4	463.2	419.1
125°	770.2	785.6	847.1	908.6	847.1	785.6	770.2	665.5	525.7	455.8	417.3
127.5°	719.6	732.6	784.4	836.3	784.4	732.6	719.6	629.6	509.6	449.6	416.2
130°	687.6	699.5	747.5	795.4	747.5	699.5	687.6	607.4	500.7	447.2	416.8
132.5°	660.3	671.0	713.9	756.9	713.9	671.0	660.3	588.6	492.9	445.1	417.3
135°	621.8	631.1	668.1	705.0	668.1	631.1	621.8	561.7	481.6	441.6	416.9
137.5°	593.3	600.8	631.2	661.5	631.2	600.8	593.3	542.5	474.8	441.0	419.5
140°	570.4	577.5	605.9	634.2	605.9	577.5	570.4	526.6	468.2	438.9	419.9
142.5°	554.5	560.6	584.9	609.3	584.9	560.6	554.5	516.0	464.6	438.9	421.4
145°	530.5	535.1	553.5	572.0	553.5	535.1	530.5	498.9	457.0	435.9	421.4
147.5°	510.3	514.1	529.4	544.7	529.4	514.1	510.3	485.6	452.5	435.9	424.3
150°	498.7	501.8	514.2	526.7	514.2	501.8	498.7	477.8	449.9	435.9	425.8
152.5°	489.6	491.9	501.2	510.6	501.2	491.9	489.6	471.7	447.9	435.9	426.8
155°	478.6	480.1	486.3	492.5	486.3	480.1	478.6	464.3	445.4	435.9	429.0
157.5°	469.1	470.2	474.6	478.9	474.6	470.2	469.1	458.0	443.3	435.9	431.2
160°	464.4	465.0	467.5	470.0	467.5	465.0	464.4	455.0	442.2	435.9	432.1
162.5°	459.9	460.5	462.9	465.3	462.9	460.5	459.9	451.9	441.3	435.9	433.2
165°	453.1	453.8	456.3	458.8	456.3	453.8	453.1	447.4	439.8	435.9	434.7
167.5°	450.2	450.5	451.5	452.6	451.5	450.5	450.2	446.5	441.4	438.9	437.8
170°	450.2	450.2	450.2	450.2	450.2	450.2	450.2	446.5	441.4	438.9	438.8
172.5°	447.8	447.6	446.6	445.7	446.6	447.6	447.8	444.8	440.9	438.9	438.9
175°	444.5	444.5	444.5	444.5	444.5	444.5	444.5	442.6	440.1	438.9	439.5
177.5°	444.0	443.7	442.6	441.6	442.6	443.7	444.0	442.4	440.4	439.5	440.0
180°	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6	441.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	677.7	677.7	677.7	677.7	677.7
2.5°	669.4	672.5	674.5	677.0	683.4
5°	643.7	655.9	659.7	669.4	680.9
7.5°	587.3	624.5	634.7	657.8	675.8
10°	532.8	570.0	587.9	642.4	669.4
12.5°	505.2	527.0	539.2	615.5	660.4
15°	487.9	503.3	512.3	579.6	650.1
17.5°	474.5	485.4	491.8	544.3	636.0
20°	466.1	471.2	477.0	518.7	620.0
22.5°	460.3	457.2	461.7	500.8	598.2
25°	456.5	444.3	449.4	486.6	572.5
27.5°	459.7	432.8	434.7	473.8	545.6
30°	460.3	418.6	419.3	460.3	515.5
32.5°	455.8	403.9	404.6	443.7	481.5
35°	444.9	386.6	385.9	424.5	435.4
37.5°	430.2	368.1	368.1	403.2	384.7
40°	412.2	349.4	351.3	375.7	339.8
42.5°	390.4	329.5	332.1	339.2	306.5
45°	366.7	310.3	312.2	286.6	280.8
47.5°	340.4	290.4	291.1	237.9	272.5
50°	309.1	269.9	267.4	203.9	271.9
52.5°	281.4	247.5	239.8	184.6	246.8
55°	254.5	223.8	207.1	169.9	228.9
57.5°	230.8	193.0	177.0	152.6	225.0
60°	209.0	162.8	150.7	134.0	206.5
62.5°	191.1	140.4	137.9	121.2	187.2
65°	171.8	125.0	124.4	110.3	159.0
67.5°	153.2	114.7	114.1	100.0	121.2
70°	133.4	103.8	102.6	89.1	89.8
72.5°	112.8	91.7	90.4	80.1	74.4
75°	92.3	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°	13.1	8.3	7.7	5.4	3.0
92.5°	80.4	57.2	52.1	32.0	11.9
95°	197.9	111.5	102.3	65.4	28.5
97.5°	266.5	122.4	114.2	81.7	49.2
100°	291.5	131.5	124.2	94.6	65.2
102.5°	303.0	140.7	133.8	106.4	78.9
105°	311.5	154.4	148.6	125.2	101.9
107.5°	313.1	174.6	169.1	147.4	125.6
110°	310.7	185.8	181.0	161.3	141.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	310.8	199.4	194.7	176.1	157.4
115°	313.7	219.9	215.6	198.3	181.1
117.5°	319.5	239.8	235.8	220.2	204.5
120°	324.2	251.3	247.6	232.9	218.2
122.5°	331.0	264.9	261.2	246.4	231.4
125°	340.2	282.4	279.1	265.5	251.9
127.5°	349.4	299.3	295.9	282.2	268.5
130°	356.1	310.6	306.9	292.2	277.4
132.5°	361.6	319.8	316.1	301.3	286.6
135°	367.5	330.4	327.0	313.6	300.2
137.5°	376.4	344.1	340.7	327.4	314.1
140°	381.8	353.2	350.2	337.9	325.7
142.5°	386.3	360.0	357.2	345.9	334.6
145°	392.2	370.4	368.0	358.1	348.2
147.5°	400.9	383.5	381.1	371.4	361.8
150°	405.5	390.3	388.1	379.4	370.7
152.5°	408.5	394.7	393.1	386.5	379.9
155°	415.0	404.5	403.2	398.5	393.6
157.5°	421.5	414.3	413.2	408.4	403.6
160°	424.5	418.7	417.8	414.1	410.4
162.5°	427.6	423.5	422.8	420.1	417.3
165°	432.2	430.3	429.6	427.1	424.7
167.5°	435.7	434.1	433.8	432.6	431.4
170°	438.7	438.6	438.3	437.1	435.9
172.5°	438.9	438.9	438.8	438.6	438.3
175°	440.7	441.6	441.6	441.6	441.6
177.5°	440.9	441.6	441.6	441.6	441.6
180°	441.6	441.6	441.6	441.6	441.6



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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	9.97	10.73	11.02	11.79	13.22	12.76	13.53	13.82	14.58	16.02
	3H	10.44	11.12	11.50	12.19	13.64	14.09	14.78	15.15	15.84	17.29
	4H	10.62	11.27	11.70	12.34	13.80	14.52	15.17	15.60	16.24	17.70
	6H	10.74	11.33	11.82	12.40	13.87	14.80	15.39	15.88	16.46	17.93
	8H	10.73	11.30	11.82	12.39	13.85	14.86	15.43	15.95	16.52	17.98
	12H	10.70	11.24	11.80	12.32	13.81	14.89	15.43	15.99	16.51	18.00
4H	2H	10.98	11.63	12.06	12.70	14.15	13.16	13.81	14.24	14.88	16.34
	3H	12.00	12.54	13.08	13.63	15.10	14.65	15.19	15.74	16.28	17.75
	4H	12.27	12.76	13.36	13.85	15.34	15.17	15.66	16.26	16.75	18.24
	6H	12.39	12.81	13.49	13.92	15.41	15.52	15.94	16.62	17.05	18.54
	8H	12.39	12.79	13.49	13.89	15.39	15.62	16.01	16.72	17.11	18.62
	12H	12.35	12.71	13.47	13.83	15.33	15.66	16.02	16.78	17.14	18.64
8H	4H	12.71	13.11	13.81	14.21	15.71	15.28	15.68	16.39	16.78	18.28
	6H	12.97	13.29	14.09	14.44	15.93	15.71	16.04	16.83	17.18	18.68
	8H	13.01	13.29	14.14	14.42	15.94	15.85	16.14	16.98	17.26	18.78
	12H	12.99	13.24	14.12	14.36	15.91	15.94	16.19	17.08	17.31	18.87
12H	4H	12.71	13.07	13.83	14.18	15.69	15.24	15.60	16.36	16.72	18.22
	6H	13.02	13.31	14.15	14.44	15.95	15.70	15.99	16.83	17.12	18.63
	8H	13.09	13.34	14.22	14.46	16.01	15.86	16.11	16.99	17.23	18.78