

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: P933950

Luminaire Tested: SQ4-FA-025U-075D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933950
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

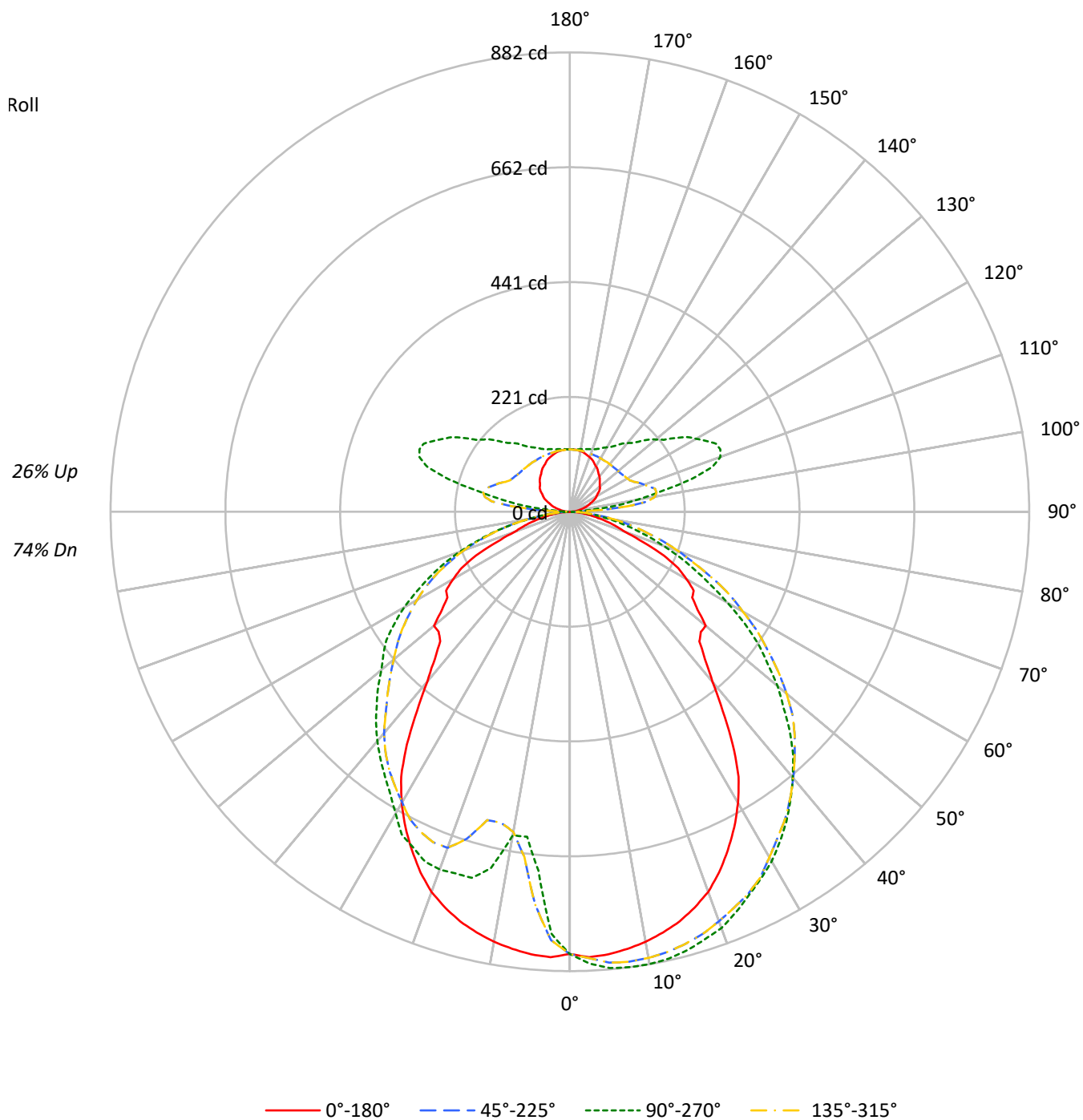
Lumens per Lamp: N/A
Luminaire Lumens: 2978.3 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 30
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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41
5	72	60	52	45	68	57	50	44	52	46	41	48	43	38	43	39	36
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7877	7877	7877	7877
5°	7927	7951	7927	6252
10°	7865	7833	7865	5599
15°	7771	7663	7771	6399
20°	7600	7462	7600	6412
25°	7258	7168	7258	6276
30°	6820	6925	6820	5978
35°	6071	6617	6071	5650
40°	5051	6255	5051	5402
45°	4504	5830	4504	5117
50°	4775	5324	4775	4831
55°	4480	4779	4480	4666
60°	4600	4060	4600	4275
65°	4149	3355	4149	3751
70°	2853	2673	2853	3143
75°	2476	1977	2476	2367
80°	1956	1307	1956	1423
85°	1060	692	1060	588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 6915 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	2.6
10°-20°	217.6	7.3
20°-30°	336.3	11.3
30°-40°	401.5	13.5
40°-50°	403.9	13.6
50°-60°	351.4	11.8
60°-70°	249.1	8.4
70°-80°	131.8	4.4
80°-90°	33.3	1.1
90°-100°	58.4	2.0
100°-110°	153.6	5.2
110°-120°	159.2	5.3
120°-130°	127.7	4.3
130°-140°	100.2	3.4
140°-150°	76.9	2.6
150°-160°	55.4	1.9
160°-170°	33.9	1.1
170°-180°	11.4	0.4
0°-30°	630.5	21.2
0°-40°	1032.0	34.7
0°-60°	1787.3	60.0
0°-90°	2201.5	73.9
90°-120°	371.2	12.5
90°-150°	676.1	22.7
90°-180°	777.0	26.1
0°-180°	2978.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	849	849	849	849	849	
5°	853	879	853	692	853	81
15°	814	871	814	728	814	229
25°	717	813	717	712	717	329
35°	545	725	545	619	545	337
45°	352	598	352	524	352	282
55°	287	441	287	430	287	263
65°	199	266	199	297	199	190
75°	76	126	76	151	76	79
85°	13	32	13	27	13	17
90°	1	3	1	3	1	1
95°	8	35	8	35	8	9
105°	28	240	28	240	28	29
115°	49	310	49	310	49	49
125°	68	247	68	247	68	61
135°	82	191	82	191	82	63
145°	94	155	94	155	94	59
155°	107	134	107	134	107	49
165°	115	124	115	124	115	33
175°	120	121	120	121	120	11
180°	120	120	120	120	120	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	856.1	856.1	861.0	862.6	862.6	860.2	857.8	860.2	867.4	869.8	869.0
5°	852.9	859.4	868.2	869.8	871.4	870.6	869.0	870.6	878.6	880.2	881.1
7.5°	846.4	858.6	869.8	872.2	874.6	872.2	871.4	873.0	881.1	882.7	882.7
10°	838.4	855.3	868.2	869.8	872.2	869.8	869.8	873.0	881.1	882.7	883.5
12.5°	827.2	850.5	862.6	864.2	867.4	866.6	865.8	869.0	877.0	878.6	878.6
15°	814.3	841.6	852.9	854.5	860.2	858.6	858.6	861.8	870.6	873.0	872.2
17.5°	796.7	830.4	843.2	845.6	849.7	848.9	849.7	852.9	861.0	862.6	863.4
20°	776.6	815.1	830.4	832.8	836.8	836.8	836.8	840.8	848.9	852.1	852.1
22.5°	749.3	799.1	815.1	816.7	821.5	821.5	823.2	828.8	836.0	836.8	836.8
25°	717.2	781.4	795.1	799.9	804.7	807.1	809.5	812.7	815.1	814.3	815.1
27.5°	683.4	758.9	776.6	779.8	786.2	788.6	791.8	792.6	793.4	795.9	794.2
30°	645.7	727.6	754.1	757.3	767.7	769.4	766.1	767.7	771.8	773.4	775.0
32.5°	603.1	681.0	730.8	738.0	747.7	742.9	742.1	744.5	750.9	750.9	752.5
35°	545.3	644.9	709.1	715.6	722.8	717.2	720.4	721.2	725.2	727.6	726.8
37.5°	481.9	613.6	686.6	691.5	697.1	689.9	694.7	697.1	700.3	698.7	698.7
40°	425.7	564.6	660.1	663.4	668.2	662.6	667.4	669.0	670.6	669.0	668.2
42.5°	383.9	510.8	632.0	636.1	632.8	636.9	638.5	641.7	639.3	636.1	636.1
45°	351.8	496.3	601.5	606.3	601.5	608.0	610.4	610.4	603.1	601.5	600.7
47.5°	341.4	467.4	571.0	571.0	568.6	576.6	580.6	575.0	567.8	565.4	565.4
50°	340.6	435.3	529.3	526.0	537.3	546.9	542.9	537.3	531.7	522.8	522.8
52.5°	309.2	396.0	475.5	487.5	505.2	510.8	504.4	498.7	489.1	485.1	481.9
55°	286.8	355.0	426.5	450.6	469.0	476.3	464.2	458.6	444.1	441.7	440.1
57.5°	281.9	295.6	381.5	412.0	434.5	433.7	426.5	416.0	404.0	401.6	400.8
60°	258.6	213.6	333.3	369.5	392.7	390.3	383.9	374.3	363.0	361.4	359.8
62.5°	234.5	155.0	278.6	319.7	352.6	351.8	346.2	331.7	323.7	319.7	316.5
65°	199.1	130.1	198.3	265.8	313.3	314.9	302.8	292.4	283.5	278.6	277.8
67.5°	151.8	106.0	134.1	221.6	275.4	273.8	258.6	253.7	242.5	240.1	235.3
70°	112.4	70.7	93.1	179.9	238.5	234.5	222.4	216.8	206.4	200.8	197.5
72.5°	93.1	57.0	68.3	139.7	200.8	195.9	185.5	179.1	170.2	165.4	162.2
75°	75.5	60.2	52.2	103.6	163.0	159.8	150.2	143.7	136.5	130.1	130.9
77.5°	55.4	56.2	41.8	76.3	129.3	124.5	118.8	110.8	107.6	101.2	101.2
80°	41.8	44.2	31.3	52.2	93.1	93.1	88.3	82.7	77.1	73.9	73.9
82.5°	28.1	28.1	23.3	32.9	63.4	61.0	57.8	56.2	53.0	51.4	51.4
85°	12.8	16.1	14.5	20.1	34.5	36.1	36.1	34.5	33.7	32.1	32.9
87.5°	4.0	7.2	8.8	11.2	17.7	18.5	19.3	19.3	19.3	20.1	20.1
90°	0.8	1.4	2.1	2.2	3.5	5.2	6.1	5.5	4.1	3.1	3.1
92.5°	3.2	8.7	14.1	15.5	21.8	30.3	34.4	30.2	21.7	15.3	14.6
95°	7.7	17.7	27.8	30.3	53.7	85.0	100.6	89.8	68.1	51.9	50.0
97.5°	13.3	22.2	31.0	33.2	72.4	124.5	150.6	143.7	130.0	119.7	116.2
100°	17.7	25.7	33.7	35.7	79.1	137.0	165.9	166.4	167.4	168.1	164.0
102.5°	21.4	28.8	36.4	38.2	82.2	140.9	170.2	179.0	196.4	209.5	205.9
105°	27.7	34.0	40.3	41.9	84.6	141.3	169.8	189.3	228.5	257.8	255.8
107.5°	34.1	40.0	45.9	47.4	85.0	135.1	160.1	187.4	241.9	282.9	283.4
110°	38.5	43.8	49.1	50.4	84.3	129.5	152.1	182.6	243.5	289.3	291.3

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	42.7	47.8	52.8	54.1	84.3	124.6	144.8	176.0	238.4	285.2	288.3
115°	49.1	53.8	58.5	59.7	85.1	119.1	136.0	166.1	226.2	271.3	275.5
117.5°	55.5	59.7	64.0	65.0	86.7	115.6	130.0	157.1	211.3	252.1	256.8
120°	59.2	63.2	67.2	68.2	87.9	114.3	127.5	152.3	202.0	239.1	243.7
122.5°	62.8	66.8	70.8	71.9	89.8	113.7	125.7	148.0	192.6	226.1	230.6
125°	68.3	72.0	75.7	76.7	92.3	113.2	123.7	142.6	180.6	209.0	213.2
127.5°	72.8	76.6	80.3	81.3	94.8	112.9	122.0	138.3	170.9	195.3	198.8
130°	75.2	79.3	83.3	84.3	96.7	113.1	121.3	135.9	164.9	186.6	189.8
132.5°	77.8	81.8	85.8	86.8	98.1	113.2	120.8	133.8	159.7	179.2	182.1
135°	81.5	85.1	88.8	89.7	99.7	113.1	119.8	130.6	152.4	168.7	171.2
137.5°	85.3	88.9	92.5	93.4	102.1	113.8	119.6	128.8	147.2	161.0	163.1
140°	88.4	91.7	95.1	95.9	103.6	113.9	119.1	127.0	142.9	154.8	156.7
142.5°	90.8	93.9	96.9	97.7	104.9	114.3	119.1	126.1	140.0	150.5	152.2
145°	94.5	97.2	99.9	100.5	106.5	114.3	118.3	124.0	135.4	144.0	145.3
147.5°	98.2	100.8	103.4	104.1	108.8	115.2	118.3	122.8	131.8	138.5	139.6
150°	100.6	102.9	105.4	105.9	110.0	115.6	118.3	122.1	129.7	135.4	136.2
152.5°	103.1	104.9	106.6	107.1	110.8	115.8	118.3	121.5	128.0	132.9	133.5
155°	106.8	108.1	109.4	109.8	112.6	116.4	118.3	120.9	126.1	129.9	130.3
157.5°	109.5	110.8	112.1	112.4	114.3	117.0	118.3	120.3	124.3	127.3	127.6
160°	111.4	112.3	113.4	113.6	115.2	117.2	118.3	120.0	123.4	126.0	126.2
162.5°	113.2	113.9	114.7	114.9	116.0	117.6	118.3	119.7	122.6	124.8	124.9
165°	115.2	115.9	116.6	116.8	117.2	118.0	118.3	119.3	121.4	122.9	123.1
167.5°	117.1	117.4	117.7	117.8	118.2	118.8	119.1	119.7	121.1	122.1	122.2
170°	118.3	118.6	118.9	119.0	119.0	119.1	119.1	119.7	121.1	122.1	122.1
172.5°	118.9	119.0	119.1	119.1	119.1	119.1	119.1	119.6	120.7	121.5	121.4
175°	119.8	119.8	119.8	119.8	119.6	119.2	119.1	119.4	120.1	120.6	120.6
177.5°	119.8	119.8	119.8	119.8	119.6	119.4	119.2	119.5	120.0	120.4	120.4
180°	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8

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CATALOG NUMBER: SQ4-FA-025U-075D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	870.6	868.2	870.6	869.0	869.8	867.4	860.2	857.8	860.2	862.6	862.6
5°	881.1	879.4	881.1	881.1	880.2	878.6	870.6	869.0	870.6	871.4	869.8
7.5°	884.3	881.9	884.3	882.7	882.7	881.1	873.0	871.4	872.2	874.6	872.2
10°	884.3	881.9	884.3	883.5	882.7	881.1	873.0	869.8	869.8	872.2	869.8
12.5°	880.2	878.6	880.2	878.6	878.6	877.0	869.0	865.8	866.6	867.4	864.2
15°	873.8	871.4	873.8	872.2	873.0	870.6	861.8	858.6	858.6	860.2	854.5
17.5°	864.2	861.0	864.2	863.4	862.6	861.0	852.9	849.7	848.9	849.7	845.6
20°	852.9	850.5	852.9	852.1	852.1	848.9	840.8	836.8	836.8	836.8	832.8
22.5°	835.2	832.8	835.2	836.8	836.8	836.0	828.8	823.2	821.5	821.5	816.7
25°	815.1	812.7	815.1	815.1	814.3	815.1	812.7	809.5	807.1	804.7	799.9
27.5°	795.9	794.2	795.9	794.2	795.9	793.4	792.6	791.8	788.6	786.2	779.8
30°	776.6	775.0	776.6	775.0	773.4	771.8	767.7	766.1	769.4	767.7	757.3
32.5°	752.5	750.9	752.5	752.5	750.9	750.9	744.5	742.1	742.9	747.7	738.0
35°	727.6	725.2	727.6	726.8	727.6	725.2	721.2	720.4	717.2	722.8	715.6
37.5°	698.7	696.3	698.7	698.7	698.7	700.3	697.1	694.7	689.9	697.1	691.5
40°	669.0	665.8	669.0	668.2	669.0	670.6	669.0	667.4	662.6	668.2	663.4
42.5°	635.3	634.5	635.3	636.1	636.1	639.3	641.7	638.5	636.9	632.8	636.1
45°	599.1	597.5	599.1	600.7	601.5	603.1	610.4	610.4	608.0	601.5	606.3
47.5°	560.6	556.6	560.6	565.4	565.4	567.8	575.0	580.6	576.6	568.6	571.0
50°	519.6	520.4	519.6	522.8	522.8	531.7	537.3	542.9	546.9	537.3	526.0
52.5°	479.5	478.7	479.5	481.9	485.1	489.1	498.7	504.4	510.8	505.2	487.5
55°	439.3	440.9	439.3	440.1	441.7	444.1	458.6	464.2	476.3	469.0	450.6
57.5°	399.2	396.8	399.2	400.8	401.6	404.0	416.0	426.5	433.7	434.5	412.0
60°	352.6	349.4	352.6	359.8	361.4	363.0	374.3	383.9	390.3	392.7	369.5
62.5°	311.6	306.0	311.6	316.5	319.7	323.7	331.7	346.2	351.8	352.6	319.7
65°	268.2	265.8	268.2	277.8	278.6	283.5	292.4	302.8	314.9	313.3	265.8
67.5°	228.9	228.9	228.9	235.3	240.1	242.5	253.7	258.6	273.8	275.4	221.6
70°	192.7	191.9	192.7	197.5	200.8	206.4	216.8	222.4	234.5	238.5	179.9
72.5°	158.2	157.4	158.2	162.2	165.4	170.2	179.1	185.5	195.9	200.8	139.7
75°	127.7	126.1	127.7	130.9	130.1	136.5	143.7	150.2	159.8	163.0	103.6
77.5°	98.0	98.0	98.0	101.2	101.2	107.6	110.8	118.8	124.5	129.3	76.3
80°	73.1	72.3	73.1	73.9	73.9	77.1	82.7	88.3	93.1	93.1	52.2
82.5°	51.4	49.8	51.4	51.4	51.4	53.0	56.2	57.8	61.0	63.4	32.9
85°	32.1	32.1	32.1	32.9	32.1	33.7	34.5	36.1	36.1	34.5	20.1
87.5°	20.9	20.1	20.9	20.1	20.1	19.3	19.3	19.3	18.5	17.7	11.2
90°	3.1	3.1	3.1	3.1	3.1	4.1	5.5	6.1	5.2	3.5	2.2
92.5°	12.2	9.8	12.2	14.6	15.3	21.7	30.2	34.4	30.3	21.8	15.5
95°	42.7	35.3	42.7	50.0	51.9	68.1	89.8	100.6	85.0	53.7	30.3
97.5°	102.2	88.2	102.2	116.2	119.7	130.0	143.7	150.6	124.5	72.4	33.2
100°	147.4	130.6	147.4	164.0	168.1	167.4	166.4	165.9	137.0	79.1	35.7
102.5°	191.6	177.3	191.6	205.9	209.5	196.4	179.0	170.2	140.9	82.2	38.2
105°	248.2	240.5	248.2	255.8	257.8	228.5	189.3	169.8	141.3	84.6	41.9
107.5°	285.2	287.1	285.2	283.4	282.9	241.9	187.4	160.1	135.1	85.0	47.4
110°	299.3	307.3	299.3	291.3	289.3	243.5	182.6	152.1	129.5	84.3	50.4

TEST NUMBER: P933950

CATALOG NUMBER: SQ4-FA-025U-075D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	300.6	312.8	300.6	288.3	285.2	238.4	176.0	144.8	124.6	84.3	54.1
115°	292.6	309.6	292.6	275.5	271.3	226.2	166.1	136.0	119.1	85.1	59.7
117.5°	275.7	294.6	275.7	256.8	252.1	211.3	157.1	130.0	115.6	86.7	65.0
120°	262.1	280.4	262.1	243.7	239.1	202.0	152.3	127.5	114.3	87.9	68.2
122.5°	248.8	266.9	248.8	230.6	226.1	192.6	148.0	125.7	113.7	89.8	71.9
125°	229.9	246.6	229.9	213.2	209.0	180.6	142.6	123.7	113.2	92.3	76.7
127.5°	212.9	226.9	212.9	198.8	195.3	170.9	138.3	122.0	112.9	94.8	81.3
130°	202.8	215.8	202.8	189.8	186.6	164.9	135.9	121.3	113.1	96.7	84.3
132.5°	193.8	205.4	193.8	182.1	179.2	159.7	133.8	120.8	113.2	98.1	86.8
135°	181.3	191.4	181.3	171.2	168.7	152.4	130.6	119.8	113.1	99.7	89.7
137.5°	171.3	179.6	171.3	163.1	161.0	147.2	128.8	119.6	113.8	102.1	93.4
140°	164.4	172.1	164.4	156.7	154.8	142.9	127.0	119.1	113.9	103.6	95.9
142.5°	158.8	165.3	158.8	152.2	150.5	140.0	126.1	119.1	114.3	104.9	97.7
145°	150.2	155.2	150.2	145.3	144.0	135.4	124.0	118.3	114.3	106.5	100.5
147.5°	143.7	147.8	143.7	139.6	138.5	131.8	122.8	118.3	115.2	108.8	104.1
150°	139.6	142.9	139.6	136.2	135.4	129.7	122.1	118.3	115.6	110.0	105.9
152.5°	136.0	138.6	136.0	133.5	132.9	128.0	121.5	118.3	115.8	110.8	107.1
155°	132.0	133.7	132.0	130.3	129.9	126.1	120.9	118.3	116.4	112.6	109.8
157.5°	128.8	130.0	128.8	127.6	127.3	124.3	120.3	118.3	117.0	114.3	112.4
160°	126.9	127.5	126.9	126.2	126.0	123.4	120.0	118.3	117.2	115.2	113.6
162.5°	125.6	126.2	125.6	124.9	124.8	122.6	119.7	118.3	117.6	116.0	114.9
165°	123.8	124.5	123.8	123.1	122.9	121.4	119.3	118.3	118.0	117.2	116.8
167.5°	122.5	122.8	122.5	122.2	122.1	121.1	119.7	119.1	118.8	118.2	117.8
170°	122.1	122.1	122.1	122.1	122.1	121.1	119.7	119.1	119.1	119.0	119.0
172.5°	121.2	120.9	121.2	121.4	121.5	120.7	119.6	119.1	119.1	119.1	119.1
175°	120.6	120.6	120.6	120.6	120.6	120.1	119.4	119.1	119.2	119.6	119.8
177.5°	120.1	119.8	120.1	120.4	120.4	120.0	119.5	119.2	119.4	119.6	119.8
180°	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8

TEST NUMBER: P933950

CATALOG NUMBER: SQ4-FA-025U-075D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	861.0	856.1	856.1	848.0	844.8	842.4	838.4	826.4	823.2	819.9	824.8
5°	868.2	859.4	852.9	838.4	826.4	821.5	806.3	777.4	758.1	743.7	735.6
7.5°	869.8	858.6	846.4	824.0	795.1	782.2	735.6	682.6	668.2	655.3	647.3
10°	868.2	855.3	838.4	804.7	736.4	713.9	667.4	632.8	624.0	621.6	624.0
12.5°	862.6	850.5	827.2	771.0	675.4	660.1	632.8	612.8	611.2	615.2	636.9
15°	852.9	841.6	814.3	726.0	641.7	630.4	611.2	603.9	612.8	640.9	705.9
17.5°	843.2	830.4	796.7	681.8	616.0	608.0	594.3	608.8	658.5	696.3	718.0
20°	830.4	815.1	776.6	649.7	597.5	590.3	583.9	648.9	686.6	700.3	712.3
22.5°	815.1	799.1	749.3	627.2	578.2	572.6	576.6	671.4	686.6	696.3	706.7
25°	795.1	781.4	717.2	609.6	563.0	556.6	571.8	669.0	677.8	680.2	701.1
27.5°	776.6	758.9	683.4	593.5	544.5	542.1	575.8	658.5	665.0	667.4	689.9
30°	754.1	727.6	645.7	576.6	525.2	524.4	576.6	645.7	644.1	650.5	673.0
32.5°	730.8	681.0	603.1	555.8	506.8	506.0	571.0	626.4	624.8	633.6	650.5
35°	709.1	644.9	545.3	531.7	483.5	484.3	557.4	603.9	604.7	612.8	623.2
37.5°	686.6	613.6	481.9	505.2	461.0	461.0	538.9	583.1	581.5	583.9	598.3
40°	660.1	564.6	425.7	470.6	440.1	437.7	516.4	560.6	555.0	554.2	574.2
42.5°	632.0	510.8	383.9	424.9	416.0	412.8	489.1	533.3	522.8	525.2	550.9
45°	601.5	496.3	351.8	359.0	391.1	388.7	459.4	502.0	494.7	501.2	527.7
47.5°	571.0	467.4	341.4	298.0	364.6	363.8	426.5	471.4	467.4	473.9	502.0
50°	529.3	435.3	340.6	255.4	334.9	338.1	387.1	441.7	441.7	447.4	477.1
52.5°	475.5	396.0	309.2	231.3	300.4	310.0	352.6	416.0	417.6	423.3	449.8
55°	426.5	355.0	286.8	212.8	259.4	280.2	318.9	389.5	392.7	398.4	422.5
57.5°	381.5	295.6	281.9	191.1	221.6	241.7	289.2	363.8	365.4	370.3	393.6
60°	333.3	213.6	258.6	167.8	188.7	204.0	261.8	333.3	338.9	342.2	362.2
62.5°	278.6	155.0	234.5	151.8	172.6	175.9	239.3	304.4	311.6	314.1	326.1
65°	198.3	130.1	199.1	138.1	155.8	156.6	215.2	274.6	281.0	285.1	294.0
67.5°	134.1	106.0	151.8	125.3	142.9	143.7	191.9	240.1	248.9	252.1	257.8
70°	93.1	70.7	112.4	111.6	128.5	130.1	167.0	208.8	216.8	219.2	222.4
72.5°	68.3	57.0	93.1	100.4	113.2	114.8	141.3	173.4	181.5	183.9	185.5
75°	52.2	60.2	75.5	87.5	96.4	97.2	115.6	141.3	146.9	148.6	149.4
77.5°	41.8	56.2	55.4	70.7	78.7	77.1	90.7	109.2	114.0	114.0	114.0
80°	31.3	44.2	41.8	50.6	57.8	56.2	65.0	77.9	79.5	81.1	80.3
82.5°	23.3	28.1	28.1	32.1	38.5	36.9	43.4	50.6	50.6	50.6	52.2
85°	14.5	16.1	12.8	16.9	21.7	20.9	24.1	27.3	28.1	28.1	26.5
87.5°	8.8	7.2	4.0	6.4	9.6	9.6	11.2	12.0	11.2	11.2	11.2
90°	2.1	1.4	0.8	1.4	2.1	2.2	3.5	5.2	6.1	5.5	4.1
92.5°	14.1	8.7	3.2	8.7	14.1	15.5	21.8	30.3	34.4	30.2	21.7
95°	27.8	17.7	7.7	17.7	27.8	30.3	53.7	85.0	100.6	89.8	68.1
97.5°	31.0	22.2	13.3	22.2	31.0	33.2	72.4	124.5	150.6	143.7	130.0
100°	33.7	25.7	17.7	25.7	33.7	35.7	79.1	137.0	165.9	166.4	167.4
102.5°	36.4	28.8	21.4	28.8	36.4	38.2	82.2	140.9	170.2	179.0	196.4
105°	40.3	34.0	27.7	34.0	40.3	41.9	84.6	141.3	169.8	189.3	228.5
107.5°	45.9	40.0	34.1	40.0	45.9	47.4	85.0	135.1	160.1	187.4	241.9
110°	49.1	43.8	38.5	43.8	49.1	50.4	84.3	129.5	152.1	182.6	243.5

TEST NUMBER: P933950

CATALOG NUMBER: SQ4-FA-025U-075D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	52.8	47.8	42.7	47.8	52.8	54.1	84.3	124.6	144.8	176.0	238.4
115°	58.5	53.8	49.1	53.8	58.5	59.7	85.1	119.1	136.0	166.1	226.2
117.5°	64.0	59.7	55.5	59.7	64.0	65.0	86.7	115.6	130.0	157.1	211.3
120°	67.2	63.2	59.2	63.2	67.2	68.2	87.9	114.3	127.5	152.3	202.0
122.5°	70.8	66.8	62.8	66.8	70.8	71.9	89.8	113.7	125.7	148.0	192.6
125°	75.7	72.0	68.3	72.0	75.7	76.7	92.3	113.2	123.7	142.6	180.6
127.5°	80.3	76.6	72.8	76.6	80.3	81.3	94.8	112.9	122.0	138.3	170.9
130°	83.3	79.3	75.2	79.3	83.3	84.3	96.7	113.1	121.3	135.9	164.9
132.5°	85.8	81.8	77.8	81.8	85.8	86.8	98.1	113.2	120.8	133.8	159.7
135°	88.8	85.1	81.5	85.1	88.8	89.7	99.7	113.1	119.8	130.6	152.4
137.5°	92.5	88.9	85.3	88.9	92.5	93.4	102.1	113.8	119.6	128.8	147.2
140°	95.1	91.7	88.4	91.7	95.1	95.9	103.6	113.9	119.1	127.0	142.9
142.5°	96.9	93.9	90.8	93.9	96.9	97.7	104.9	114.3	119.1	126.1	140.0
145°	99.9	97.2	94.5	97.2	99.9	100.5	106.5	114.3	118.3	124.0	135.4
147.5°	103.4	100.8	98.2	100.8	103.4	104.1	108.8	115.2	118.3	122.8	131.8
150°	105.4	102.9	100.6	102.9	105.4	105.9	110.0	115.6	118.3	122.1	129.7
152.5°	106.6	104.9	103.1	104.9	106.6	107.1	110.8	115.8	118.3	121.5	128.0
155°	109.4	108.1	106.8	108.1	109.4	109.8	112.6	116.4	118.3	120.9	126.1
157.5°	112.1	110.8	109.5	110.8	112.1	112.4	114.3	117.0	118.3	120.3	124.3
160°	113.4	112.3	111.4	112.3	113.4	113.6	115.2	117.2	118.3	120.0	123.4
162.5°	114.7	113.9	113.2	113.9	114.7	114.9	116.0	117.6	118.3	119.7	122.6
165°	116.6	115.9	115.2	115.9	116.6	116.8	117.2	118.0	118.3	119.3	121.4
167.5°	117.7	117.4	117.1	117.4	117.7	117.8	118.2	118.8	119.1	119.7	121.1
170°	118.9	118.6	118.3	118.6	118.9	119.0	119.0	119.1	119.1	119.7	121.1
172.5°	119.1	119.0	118.9	119.0	119.1	119.1	119.1	119.1	119.1	119.6	120.7
175°	119.8	119.8	119.8	119.8	119.8	119.8	119.6	119.2	119.1	119.4	120.1
177.5°	119.8	119.8	119.8	119.8	119.8	119.8	119.6	119.4	119.2	119.5	120.0
180°	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8

TEST NUMBER: P933950

CATALOG NUMBER: SQ4-FA-025U-075D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	819.1	816.7	819.9	811.1	819.9	816.7	819.1	824.8	819.9	823.2	826.4
5°	718.8	714.8	701.9	691.5	701.9	714.8	718.8	735.6	743.7	758.1	777.4
7.5°	642.5	639.3	636.1	629.6	636.1	639.3	642.5	647.3	655.3	668.2	682.6
10°	625.6	626.4	631.2	630.4	631.2	626.4	625.6	624.0	621.6	624.0	632.8
12.5°	669.0	676.2	702.7	701.1	702.7	676.2	669.0	636.9	615.2	611.2	612.8
15°	718.8	721.2	726.8	727.6	726.8	721.2	718.8	705.9	640.9	612.8	603.9
17.5°	723.6	724.4	728.4	728.4	728.4	724.4	723.6	718.0	696.3	658.5	608.8
20°	719.6	721.2	729.2	730.8	729.2	721.2	719.6	712.3	700.3	686.6	648.9
22.5°	718.0	721.2	727.6	726.8	727.6	721.2	718.0	706.7	696.3	686.6	671.4
25°	709.9	709.9	710.7	711.5	710.7	709.9	709.9	701.1	680.2	677.8	669.0
27.5°	693.1	694.7	699.5	698.7	699.5	694.7	693.1	689.9	667.4	665.0	658.5
30°	677.8	676.2	672.2	669.0	672.2	676.2	677.8	673.0	650.5	644.1	645.7
32.5°	652.1	648.1	644.1	641.7	644.1	648.1	652.1	650.5	633.6	624.8	626.4
35°	621.6	622.4	621.6	619.2	621.6	622.4	621.6	623.2	612.8	604.7	603.9
37.5°	599.9	601.5	600.7	597.5	600.7	601.5	599.9	598.3	583.9	581.5	583.1
40°	577.4	578.2	577.4	575.0	577.4	578.2	577.4	574.2	554.2	555.0	560.6
42.5°	555.8	555.0	552.5	550.9	552.5	555.0	555.8	550.9	525.2	522.8	533.3
45°	530.9	531.7	526.8	524.4	526.8	531.7	530.9	527.7	501.2	494.7	502.0
47.5°	506.0	506.0	502.0	499.5	502.0	506.0	506.0	502.0	473.9	467.4	471.4
50°	479.5	478.7	473.0	472.2	473.0	478.7	479.5	477.1	447.4	441.7	441.7
52.5°	449.0	449.0	449.8	451.4	449.8	449.0	449.0	449.8	423.3	417.6	416.0
55°	422.5	423.3	428.9	430.5	428.9	423.3	422.5	422.5	398.4	392.7	389.5
57.5°	395.2	395.2	399.2	399.2	399.2	395.2	395.2	393.6	370.3	365.4	363.8
60°	363.8	365.4	368.7	367.9	368.7	365.4	363.8	362.2	342.2	338.9	333.3
62.5°	330.9	332.5	333.3	331.7	333.3	332.5	330.9	326.1	314.1	311.6	304.4
65°	296.4	298.0	298.8	297.2	298.8	298.0	296.4	294.0	285.1	281.0	274.6
67.5°	261.0	260.2	259.4	262.6	259.4	260.2	261.0	257.8	252.1	248.9	240.1
70°	224.8	224.8	224.0	225.6	224.0	224.8	224.8	222.4	219.2	216.8	208.8
72.5°	186.3	185.5	188.7	186.3	188.7	185.5	186.3	185.5	183.9	181.5	173.4
75°	148.6	150.2	148.6	151.0	148.6	150.2	148.6	149.4	148.6	146.9	141.3
77.5°	113.2	114.8	113.2	113.2	113.2	114.8	113.2	114.0	114.0	114.0	109.2
80°	80.3	79.5	79.5	78.7	79.5	79.5	80.3	80.3	81.1	79.5	77.9
82.5°	51.4	50.6	50.6	52.2	50.6	50.6	51.4	52.2	50.6	50.6	50.6
85°	28.1	28.9	27.3	27.3	27.3	28.9	28.1	26.5	28.1	28.1	27.3
87.5°	10.4	9.6	9.6	9.6	9.6	9.6	10.4	11.2	11.2	11.2	12.0
90°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.1	5.5	6.1	5.2
92.5°	15.3	14.6	12.2	9.8	12.2	14.6	15.3	21.7	30.2	34.4	30.3
95°	51.9	50.0	42.7	35.3	42.7	50.0	51.9	68.1	89.8	100.6	85.0
97.5°	119.7	116.2	102.2	88.2	102.2	116.2	119.7	130.0	143.7	150.6	124.5
100°	168.1	164.0	147.4	130.6	147.4	164.0	168.1	167.4	166.4	165.9	137.0
102.5°	209.5	205.9	191.6	177.3	191.6	205.9	209.5	196.4	179.0	170.2	140.9
105°	257.8	255.8	248.2	240.5	248.2	255.8	257.8	228.5	189.3	169.8	141.3
107.5°	282.9	283.4	285.2	287.1	285.2	283.4	282.9	241.9	187.4	160.1	135.1
110°	289.3	291.3	299.3	307.3	299.3	291.3	289.3	243.5	182.6	152.1	129.5

TEST NUMBER: P933950

CATALOG NUMBER: SQ4-FA-025U-075D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	285.2	288.3	300.6	312.8	300.6	288.3	285.2	238.4	176.0	144.8	124.6
115°	271.3	275.5	292.6	309.6	292.6	275.5	271.3	226.2	166.1	136.0	119.1
117.5°	252.1	256.8	275.7	294.6	275.7	256.8	252.1	211.3	157.1	130.0	115.6
120°	239.1	243.7	262.1	280.4	262.1	243.7	239.1	202.0	152.3	127.5	114.3
122.5°	226.1	230.6	248.8	266.9	248.8	230.6	226.1	192.6	148.0	125.7	113.7
125°	209.0	213.2	229.9	246.6	229.9	213.2	209.0	180.6	142.6	123.7	113.2
127.5°	195.3	198.8	212.9	226.9	212.9	198.8	195.3	170.9	138.3	122.0	112.9
130°	186.6	189.8	202.8	215.8	202.8	189.8	186.6	164.9	135.9	121.3	113.1
132.5°	179.2	182.1	193.8	205.4	193.8	182.1	179.2	159.7	133.8	120.8	113.2
135°	168.7	171.2	181.3	191.4	181.3	171.2	168.7	152.4	130.6	119.8	113.1
137.5°	161.0	163.1	171.3	179.6	171.3	163.1	161.0	147.2	128.8	119.6	113.8
140°	154.8	156.7	164.4	172.1	164.4	156.7	154.8	142.9	127.0	119.1	113.9
142.5°	150.5	152.2	158.8	165.3	158.8	152.2	150.5	140.0	126.1	119.1	114.3
145°	144.0	145.3	150.2	155.2	150.2	145.3	144.0	135.4	124.0	118.3	114.3
147.5°	138.5	139.6	143.7	147.8	143.7	139.6	138.5	131.8	122.8	118.3	115.2
150°	135.4	136.2	139.6	142.9	139.6	136.2	135.4	129.7	122.1	118.3	115.6
152.5°	132.9	133.5	136.0	138.6	136.0	133.5	132.9	128.0	121.5	118.3	115.8
155°	129.9	130.3	132.0	133.7	132.0	130.3	129.9	126.1	120.9	118.3	116.4
157.5°	127.3	127.6	128.8	130.0	128.8	127.6	127.3	124.3	120.3	118.3	117.0
160°	126.0	126.2	126.9	127.5	126.9	126.2	126.0	123.4	120.0	118.3	117.2
162.5°	124.8	124.9	125.6	126.2	125.6	124.9	124.8	122.6	119.7	118.3	117.6
165°	122.9	123.1	123.8	124.5	123.8	123.1	122.9	121.4	119.3	118.3	118.0
167.5°	122.1	122.2	122.5	122.8	122.5	122.2	122.1	121.1	119.7	119.1	118.8
170°	122.1	122.1	122.1	122.1	122.1	122.1	122.1	121.1	119.7	119.1	119.1
172.5°	121.5	121.4	121.2	120.9	121.2	121.4	121.5	120.7	119.6	119.1	119.1
175°	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.1	119.4	119.1	119.2
177.5°	120.4	120.4	120.1	119.8	120.1	120.4	120.4	120.0	119.5	119.2	119.4
180°	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	848.9	848.9	848.9	848.9	848.9
2.5°	838.4	842.4	844.8	848.0	856.1
5°	806.3	821.5	826.4	838.4	852.9
7.5°	735.6	782.2	795.1	824.0	846.4
10°	667.4	713.9	736.4	804.7	838.4
12.5°	632.8	660.1	675.4	771.0	827.2
15°	611.2	630.4	641.7	726.0	814.3
17.5°	594.3	608.0	616.0	681.8	796.7
20°	583.9	590.3	597.5	649.7	776.6
22.5°	576.6	572.6	578.2	627.2	749.3
25°	571.8	556.6	563.0	609.6	717.2
27.5°	575.8	542.1	544.5	593.5	683.4
30°	576.6	524.4	525.2	576.6	645.7
32.5°	571.0	506.0	506.8	555.8	603.1
35°	557.4	484.3	483.5	531.7	545.3
37.5°	538.9	461.0	461.0	505.2	481.9
40°	516.4	437.7	440.1	470.6	425.7
42.5°	489.1	412.8	416.0	424.9	383.9
45°	459.4	388.7	391.1	359.0	351.8
47.5°	426.5	363.8	364.6	298.0	341.4
50°	387.1	338.1	334.9	255.4	340.6
52.5°	352.6	310.0	300.4	231.3	309.2
55°	318.9	280.2	259.4	212.8	286.8
57.5°	289.2	241.7	221.6	191.1	281.9
60°	261.8	204.0	188.7	167.8	258.6
62.5°	239.3	175.9	172.6	151.8	234.5
65°	215.2	156.6	155.8	138.1	199.1
67.5°	191.9	143.7	142.9	125.3	151.8
70°	167.0	130.1	128.5	111.6	112.4
72.5°	141.3	114.8	113.2	100.4	93.1
75°	115.6	97.2	96.4	87.5	75.5
77.5°	90.7	77.1	78.7	70.7	55.4
80°	65.0	56.2	57.8	50.6	41.8
82.5°	43.4	36.9	38.5	32.1	28.1
85°	24.1	20.9	21.7	16.9	12.8
87.5°	11.2	9.6	9.6	6.4	4.0
90°	3.5	2.2	2.1	1.4	0.8
92.5°	21.8	15.5	14.1	8.7	3.2
95°	53.7	30.3	27.8	17.7	7.7
97.5°	72.4	33.2	31.0	22.2	13.3
100°	79.1	35.7	33.7	25.7	17.7
102.5°	82.2	38.2	36.4	28.8	21.4
105°	84.6	41.9	40.3	34.0	27.7
107.5°	85.0	47.4	45.9	40.0	34.1
110°	84.3	50.4	49.1	43.8	38.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	84.3	54.1	52.8	47.8	42.7
115°	85.1	59.7	58.5	53.8	49.1
117.5°	86.7	65.0	64.0	59.7	55.5
120°	87.9	68.2	67.2	63.2	59.2
122.5°	89.8	71.9	70.8	66.8	62.8
125°	92.3	76.7	75.7	72.0	68.3
127.5°	94.8	81.3	80.3	76.6	72.8
130°	96.7	84.3	83.3	79.3	75.2
132.5°	98.1	86.8	85.8	81.8	77.8
135°	99.7	89.7	88.8	85.1	81.5
137.5°	102.1	93.4	92.5	88.9	85.3
140°	103.6	95.9	95.1	91.7	88.4
142.5°	104.9	97.7	96.9	93.9	90.8
145°	106.5	100.5	99.9	97.2	94.5
147.5°	108.8	104.1	103.4	100.8	98.2
150°	110.0	105.9	105.4	102.9	100.6
152.5°	110.8	107.1	106.6	104.9	103.1
155°	112.6	109.8	109.4	108.1	106.8
157.5°	114.3	112.4	112.1	110.8	109.5
160°	115.2	113.6	113.4	112.3	111.4
162.5°	116.0	114.9	114.7	113.9	113.2
165°	117.2	116.8	116.6	115.9	115.2
167.5°	118.2	117.8	117.7	117.4	117.1
170°	119.0	119.0	118.9	118.6	118.3
172.5°	119.1	119.1	119.1	119.0	118.9
175°	119.6	119.8	119.8	119.8	119.8
177.5°	119.6	119.8	119.8	119.8	119.8
180°	119.8	119.8	119.8	119.8	119.8

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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	13.93	15.06	14.65	15.80	16.68	16.73	17.85	17.45	18.60	19.48
	3H	14.43	15.44	15.16	16.19	17.10	18.08	19.09	18.82	19.85	20.76
	4H	14.63	15.58	15.38	16.35	17.27	18.53	19.49	19.29	20.25	21.17
	6H	14.76	15.64	15.53	16.41	17.35	18.82	19.70	19.59	20.47	21.42
	8H	14.77	15.61	15.55	16.40	17.34	18.90	19.74	19.68	20.53	21.47
	12H	14.75	15.55	15.53	16.34	17.31	18.94	19.75	19.73	20.53	21.50
4H	2H	14.99	15.94	15.74	16.70	17.63	17.17	18.13	17.93	18.89	19.81
	3H	16.04	16.83	16.81	17.63	18.57	18.69	19.49	19.46	20.28	21.23
	4H	16.32	17.05	17.11	17.84	18.82	19.22	19.95	20.01	20.74	21.72
	6H	16.47	17.09	17.27	17.91	18.89	19.60	20.22	20.40	21.04	22.02
	8H	16.48	17.06	17.28	17.88	18.87	19.70	20.29	20.51	21.11	22.10
	12H	16.46	16.98	17.28	17.82	18.82	19.77	20.29	20.59	21.13	22.13
8H	4H	16.79	17.38	17.60	18.20	19.19	19.37	19.95	20.18	20.77	21.76
	6H	17.07	17.55	17.90	18.41	19.40	19.81	20.29	20.64	21.15	22.15
	8H	17.11	17.54	17.96	18.40	19.41	19.96	20.39	20.80	21.25	22.25
	12H	17.11	17.49	17.96	18.33	19.40	20.06	20.44	20.91	21.29	22.35
12H	4H	16.81	17.34	17.64	18.18	19.17	19.35	19.87	20.17	20.71	21.71
	6H	17.13	17.56	17.97	18.42	19.42	19.81	20.24	20.65	21.10	22.10
	8H	17.21	17.59	18.06	18.43	19.50	19.98	20.36	20.83	21.20	22.27

END OF REPORT