

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: EPHESUS

Report Number: P701728 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-80-2S-CV2-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701728 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-11)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-57-80-2S-CV2-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 2S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

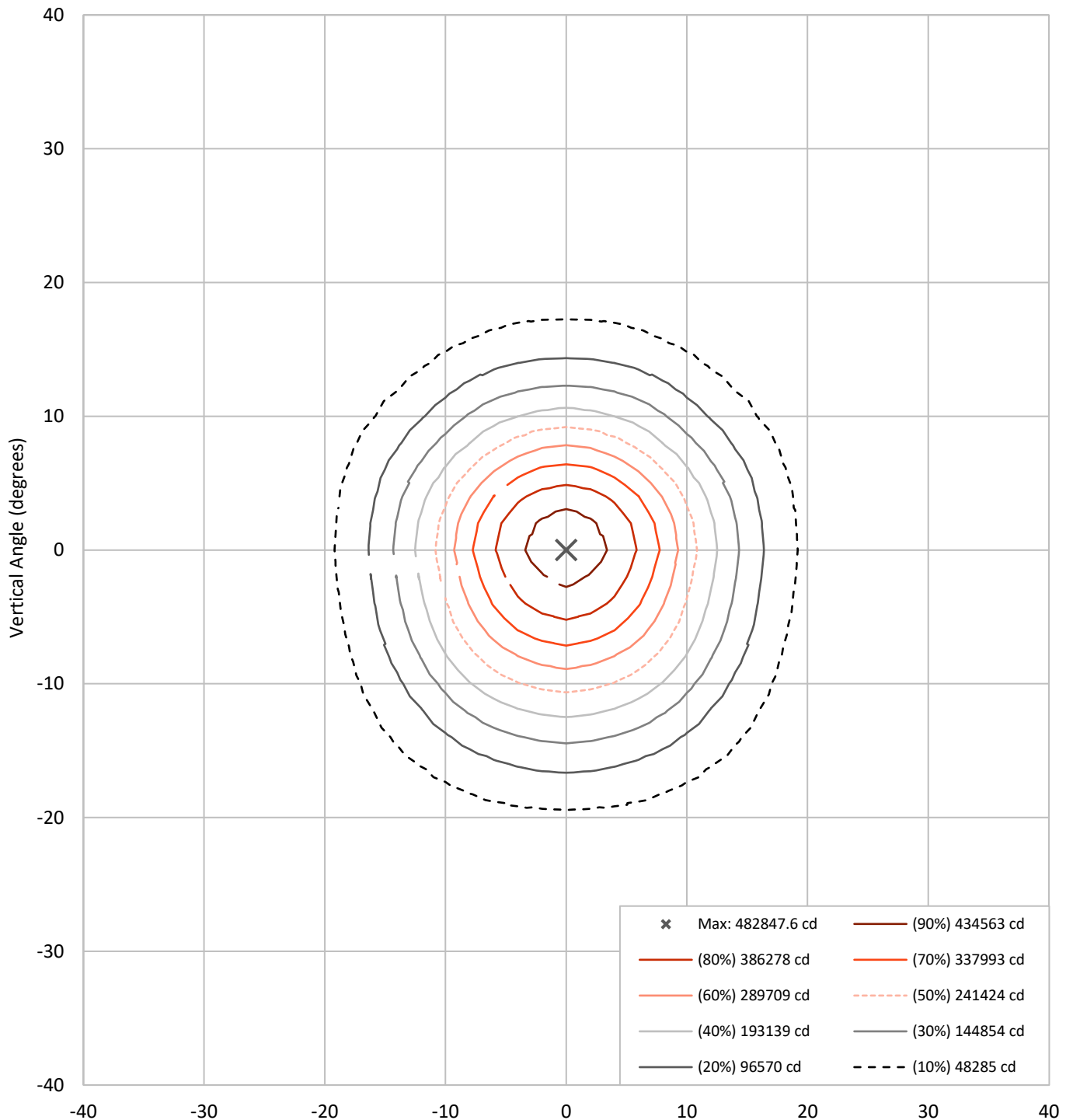
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	74745.8 lumens	Max Intensity:	482847.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	106.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.7°H x 19.8°V	Field Angle (10%):	38.4°H x 36.6°V
Beam Lumens:	34554.4 lumens	Field Lumens:	64460 lumens
Beam Efficiency:	46.2%	Field Efficiency:	86.2%

Input Watts (W): 703.6
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: 25 FT

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Iso-Candela Plot





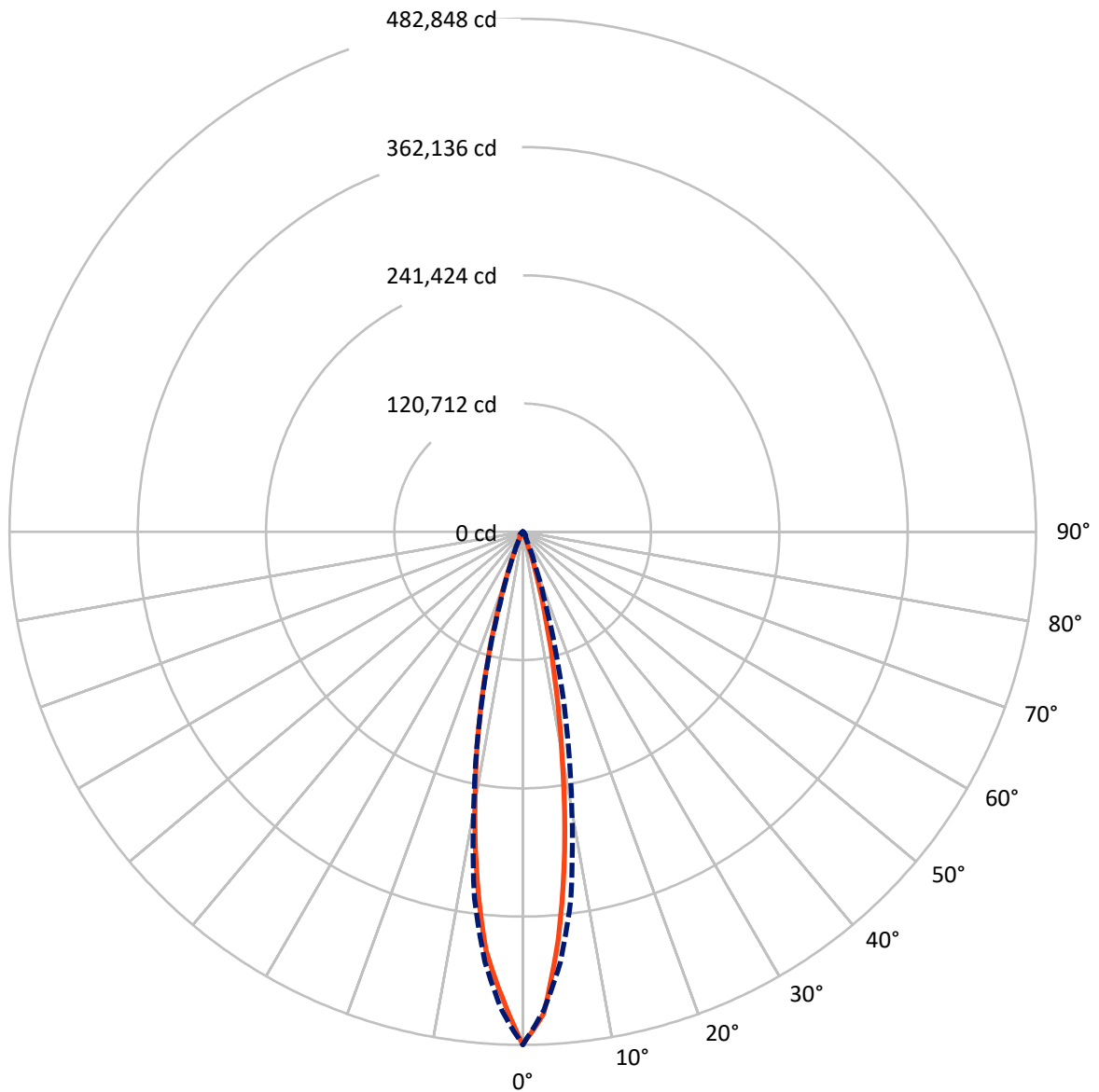
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Lumen Table

90	0.2		0.4		0.7		0.6		0.7		0.6		0.7		0.4		0.2	
80	0.2		0.4		0.7		0.6		0.7		0.6		0.7		0.4		0.2	
70	0.2	0.1	0.2	0.7	0.8	0.5	0.3	0.3	0.3	0.3	0.5	0.8	0.7	0.2	0.1	0.2	0.2	0.2
60		0.1	0.4	0.7	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.7	0.4	0.1			
50	0.2	0.2	0.5	0.6	0.7	1.0	1.3	1.5	1.5	1.3	1.0	0.7	0.6	0.5	0.2	0.2	0.2	0.2
40		0.3	1.0	2.1	4.3	7.0	8.5	9.8	9.8	8.5	7.0	4.3	2.1	1.0	0.3			
30	0.3	0.5	3.1	10.5	27.7	40.8	71.3	157.0	157.0	71.3	40.8	27.7	10.5	3.1	0.5	0.3	0.3	0.3
20		1.0	7.0	27.0	63.5	124.3	772.5	2410.3	2410.3	772.5	124.3	63.5	27.0	7.0	1.0			
10	0.4	1.9	12.0	50.0	103.8	334.5	3157.0	9403.5	9403.5	3157.0	334.5	103.8	50.0	12.0	1.9	0.4	0.4	0.4
0		3.2	15.6	58.7	116.3	335.7	3345.8	9803.9	9803.9	3345.8	335.7	116.3	58.7	15.6	3.2			
-10	0.6	3.7	15.9	54.2	114.8	192.0	1231.9	3555.2	3555.2	1231.9	192.0	114.8	54.2	15.9	3.7	0.6	0.6	0.6
-20		3.4	13.5	32.4	81.7	120.1	187.6	367.1	367.1	187.6	120.1	81.7	32.4	13.5	3.4			
-30	0.5	2.9	9.9	20.2	45.2	86.4	111.9	123.0	123.0	111.9	86.4	45.2	20.2	9.9	2.9	0.5	0.5	0.5
-40		1.9	6.8	15.0	25.5	42.3	73.4	99.1	99.1	73.4	42.3	25.5	15.0	6.8	1.9			
-50	0.3	0.9	4.0	9.7	17.8	26.5	34.0	38.2	38.2	34.0	26.5	17.8	9.7	4.0	0.9	0.3	0.3	0.3
-60		0.4	1.4	4.6	9.4	15.3	21.5	25.3	25.3	21.5	15.3	9.4	4.6	1.4	0.4			
-70	0.2	0.9	4.0	9.7	17.8	26.5	34.0	38.2	38.2	34.0	26.5	17.8	9.7	4.0	0.9	0.2	0.2	0.2
-80		1.1	3.5	8.7	12.6	8.7	3.5	1.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2			
-90	0.2		1.1		3.5		8.7		12.6		8.7		3.5		1.1		0.2	

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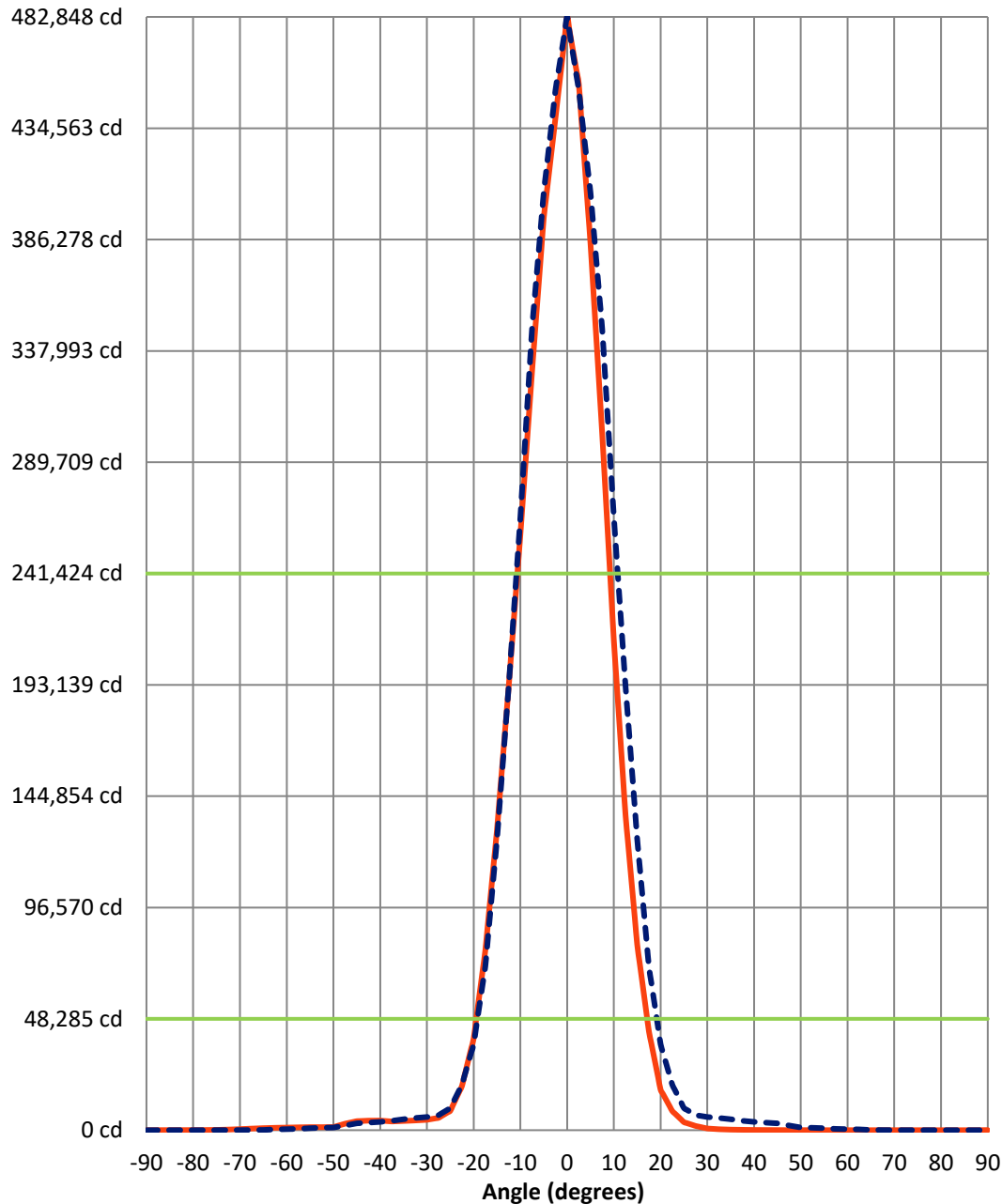
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 21.7°
 V Angle: 19.8°
 Lumens: 34554.4
 Efficiency: 46.2%

Field:
 H Angle: 38.4°
 V Angle: 36.6°
 Lumens: 64460
 Efficiency: 86.2%

Spill:
 Lumens: 10285.7
 Efficiency: 13.8%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	7.8	7.8	7.8	8.3	8.8	9.2	9.7	9.7	9.7	9.7	9.7
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.5	7.1	6.9	6.6
85°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.6	7.5	7.5	7.5
82.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
80°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
75°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
72.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
70°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.9
67.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.9	7.8	7.8	8.1	8.0
65°	7.8	7.8	7.8	7.8	7.8	7.9	7.9	7.8	8.2	8.4	8.2
62.5°	7.8	7.8	7.8	7.8	7.8	8.0	8.0	8.1	8.7	8.7	8.3
60°	7.8	7.8	7.8	7.8	7.8	8.2	8.2	8.6	9.1	8.8	8.4
57.5°	7.8	7.8	7.8	7.8	8.0	8.4	8.5	9.2	9.3	8.9	8.5
55°	7.8	7.8	7.9	7.8	8.2	8.6	8.9	9.7	9.4	9.0	8.6
52.5°	7.8	7.8	7.9	7.8	8.4	8.8	9.2	9.7	9.5	9.1	8.7
50°	7.8	7.8	7.9	7.8	8.6	9.0	9.5	9.7	9.6	9.2	10.2
47.5°	7.8	7.8	8.0	7.8	8.8	9.2	9.7	9.7	9.7	9.3	11.7
45°	7.8	7.8	8.0	8.0	9.0	9.3	9.7	9.7	9.8	10.2	12.8
42.5°	7.8	7.8	8.1	8.2	9.3	9.5	9.7	9.8	9.9	10.9	14.3
40°	7.8	7.8	8.2	8.4	9.4	9.6	9.7	9.9	10.3	11.4	15.8
37.5°	7.8	7.8	8.2	8.6	9.5	9.7	9.7	10.1	11.1	12.6	17.0
35°	7.8	7.8	8.3	8.8	9.6	9.7	9.7	10.4	12.0	14.6	17.7
32.5°	7.8	7.8	8.4	9.0	9.7	9.7	9.8	10.6	13.0	16.7	19.4
30°	7.8	7.8	8.5	9.1	9.7	9.7	10.0	11.1	14.0	18.9	21.4
27.5°	7.8	7.8	8.6	9.2	9.7	9.7	10.2	11.9	15.4	21.1	23.7
25°	7.8	7.8	8.7	9.4	9.7	9.7	10.4	12.8	17.2	23.2	26.4
22.5°	7.8	7.8	8.8	9.4	9.7	9.7	10.7	13.6	19.0	25.2	31.4
20°	7.8	7.8	8.9	9.5	9.7	9.9	10.9	14.5	20.8	27.5	36.2
17.5°	7.8	7.8	9.0	9.6	9.7	10.1	11.3	15.4	22.5	29.8	40.7
15°	7.8	7.8	9.1	9.6	9.7	10.3	11.7	16.2	24.2	32.2	44.9
12.5°	7.8	7.8	9.2	9.7	9.7	10.5	12.1	16.9	25.9	34.6	48.7
10°	7.8	7.8	9.3	9.7	9.7	10.7	12.4	17.6	27.5	38.4	54.7
7.5°	7.8	7.8	9.4	9.7	9.7	11.0	12.7	18.2	29.1	42.5	65.8
5°	7.8	7.8	9.5	9.7	9.7	11.2	13.0	18.7	30.6	46.7	77.2
2.5°	7.8	7.8	9.6	9.7	9.7	11.5	13.3	19.1	31.9	50.7	88.5
0°	7.8	7.8	9.7	9.7	9.7	11.7	13.6	19.5	33.1	54.5	99.4
-2.5°	7.8	7.8	9.7	9.8	9.9	12.1	15.1	24.0	42.9	71.2	128.3
-5°	7.8	7.9	9.7	10.0	10.1	12.5	16.6	28.4	52.2	87.2	155.7
-7.5°	7.8	7.9	9.7	10.1	10.2	12.9	18.0	32.4	60.8	102.1	180.6
-10°	7.8	8.0	9.7	10.2	10.4	13.2	19.3	36.0	68.5	115.6	202.6
-12.5°	7.8	8.0	9.6	10.3	10.6	13.5	20.3	39.0	75.1	127.2	215.7
-15°	7.8	8.0	9.6	10.4	10.7	13.7	21.2	41.3	81.0	136.3	223.5
-17.5°	7.8	8.1	9.6	10.5	10.9	13.9	21.8	43.9	86.4	143.8	228.7
-20°	7.8	8.1	9.5	10.5	11.1	14.0	22.5	46.4	90.4	149.6	231.3



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 CATALOG NUMBER: EPH-LS-08-0680R-57-80-2S-CV2-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.8	8.1	9.5	10.6	11.2	14.0	23.3	47.7	92.9	153.5	231.2
-25°	7.8	8.2	9.5	10.6	11.4	14.2	23.6	47.6	93.7	155.4	228.2
-27.5°	7.8	8.2	9.5	10.6	11.6	14.4	23.4	46.1	92.8	155.5	229.3
-30°	7.8	8.2	9.4	10.6	11.7	14.5	22.7	43.1	91.0	154.1	228.1
-32.5°	7.8	8.2	9.4	10.6	11.9	14.5	21.4	41.5	87.5	150.3	224.2
-35°	7.8	8.2	9.4	10.5	12.1	14.3	20.8	40.0	81.8	144.2	217.6
-37.5°	7.8	8.3	9.4	10.4	12.2	14.2	20.6	37.5	73.8	135.5	200.9
-40°	7.8	8.3	9.4	10.3	12.3	14.4	20.2	34.2	63.5	124.5	182.4
-42.5°	7.8	8.3	9.4	10.1	12.3	14.4	19.6	30.0	56.3	107.4	162.3
-45°	7.8	8.3	9.4	10.0	12.1	14.4	18.8	26.7	50.4	88.7	140.8
-47.5°	7.8	8.3	9.4	9.9	11.9	14.3	17.9	25.5	43.3	69.4	119.0
-50°	7.8	8.3	9.4	9.8	11.7	14.0	17.5	24.1	34.4	59.2	96.4
-52.5°	7.8	8.3	9.4	9.9	11.4	13.7	17.0	22.5	30.0	48.1	74.0
-55°	7.8	8.2	9.4	9.9	11.1	13.3	16.4	20.7	27.5	36.2	60.3
-57.5°	7.8	8.2	9.4	9.9	10.8	12.9	15.6	19.7	24.9	31.2	45.6
-60°	7.8	8.2	9.4	9.8	10.4	12.4	14.8	18.4	22.5	28.2	34.1
-62.5°	7.8	8.2	9.4	9.8	10.4	11.9	14.1	17.1	21.0	25.1	30.7
-65°	7.8	8.2	9.3	9.8	10.3	11.3	13.3	15.8	19.4	23.1	27.2
-67.5°	7.8	8.1	9.1	9.8	10.1	10.9	12.5	14.9	17.7	21.2	24.7
-70°	7.8	8.1	9.0	9.7	10.0	10.6	11.6	14.0	16.6	19.3	22.5
-72.5°	7.8	8.1	8.9	9.6	9.9	10.4	11.2	13.0	15.5	18.0	20.5
-75°	7.8	8.0	8.7	9.4	9.7	10.1	10.7	12.3	14.4	16.7	19.1
-77.5°	7.8	8.0	8.6	9.2	9.6	9.8	10.2	11.7	13.5	15.4	17.6
-80°	7.8	8.0	8.4	9.0	9.4	9.6	9.8	11.1	12.6	14.3	16.1
-82.5°	7.8	7.9	8.3	8.8	9.2	9.5	9.7	10.5	11.7	13.1	14.6
-85°	7.8	7.9	8.1	8.6	9.1	9.4	9.7	10.3	11.0	11.9	13.0
-87.5°	7.8	7.8	8.0	8.5	8.9	9.3	9.7	10.0	10.4	10.8	11.3
-90°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.3	6.8	6.3	5.8



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	9.7	9.7	9.7	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.1
87.5°	6.5	6.3	6.1	5.8	5.8	5.8	5.8	5.8	5.3	4.9	4.4
85°	7.2	6.8	6.3	5.8	5.8	5.8	5.8	5.8	5.3	4.9	4.4
82.5°	7.3	6.8	6.3	5.8	5.8	5.8	5.8	5.8	5.4	4.9	4.4
80°	7.4	6.9	6.4	5.9	5.8	5.8	5.8	5.8	5.4	5.0	4.8
77.5°	7.4	6.9	6.4	5.9	5.9	6.2	6.5	6.8	6.8	6.6	6.3
75°	7.5	7.0	6.7	6.7	7.1	7.5	7.8	7.8	7.5	7.0	6.5
72.5°	7.6	7.4	7.4	7.8	7.8	7.8	7.8	7.8	8.7	10.0	11.0
70°	7.7	7.8	7.8	7.8	7.8	8.3	10.3	13.0	15.7	17.8	20.5
67.5°	7.8	7.8	7.8	8.0	9.4	11.6	14.7	22.4	31.3	34.1	34.1
65°	7.8	7.8	8.3	9.6	11.5	17.5	26.0	36.4	44.3	43.1	40.3
62.5°	7.8	8.1	9.1	12.0	17.5	25.3	33.5	41.1	48.6	47.3	41.2
60°	7.9	8.3	11.5	17.0	23.0	29.3	37.1	42.0	46.9	48.3	38.1
57.5°	8.0	10.1	15.5	21.3	26.7	31.3	34.2	38.6	41.4	41.9	31.4
55°	9.1	13.2	19.0	24.7	28.5	27.3	29.5	32.1	33.3	30.7	22.2
52.5°	11.6	16.1	22.0	26.7	27.2	25.1	24.5	25.7	23.8	20.3	17.6
50°	13.8	18.9	24.6	27.2	26.6	23.9	20.3	19.8	19.1	17.8	16.1
47.5°	15.9	21.5	26.4	28.2	26.2	23.7	19.6	19.1	19.2	20.3	19.2
45°	18.0	23.1	28.1	28.4	27.0	25.0	23.2	21.2	25.0	26.3	26.2
42.5°	19.8	24.1	28.5	29.0	29.7	29.3	28.7	30.8	33.1	35.2	35.9
40°	20.5	24.8	30.0	33.8	34.0	35.4	39.4	43.1	43.3	46.0	47.5
37.5°	20.8	27.2	34.4	43.0	40.4	45.1	51.8	62.0	63.5	57.6	65.8
35°	20.8	30.6	45.9	55.9	54.5	57.8	73.8	88.7	95.4	85.8	99.0
32.5°	22.9	34.9	60.7	71.4	81.2	85.0	100.4	129.9	146.4	152.5	163.5
30°	27.7	48.6	77.8	89.3	117.0	135.5	148.4	183.6	213.8	305.2	372.9
27.5°	33.8	65.4	94.8	121.2	162.1	194.0	221.7	257.9	368.5	534.9	707.9
25°	39.7	87.8	113.4	162.6	218.1	261.1	299.1	350.5	582.3	923.3	1069.0
22.5°	51.7	113.6	143.0	209.2	279.2	330.1	385.4	524.2	837.3	1349.9	1409.9
20°	71.3	138.5	183.5	261.5	347.0	399.3	472.6	706.6	1126.0	1517.6	1680.0
17.5°	92.3	165.7	227.9	323.1	426.8	486.1	571.8	882.2	1374.8	1723.4	1941.2
15°	114.3	194.6	270.6	390.7	511.2	593.1	770.3	1123.5	1571.3	1964.5	2282.0
12.5°	136.6	224.6	311.3	462.3	599.7	698.7	1010.8	1491.4	1900.4	2268.7	2699.8
10°	158.5	255.1	349.8	535.9	690.5	802.5	1275.6	1865.3	2267.0	2627.1	3069.1
7.5°	202.5	296.0	390.4	609.3	781.8	903.6	1552.5	2236.9	2603.1	2941.2	3374.8
5°	250.6	346.5	452.9	696.8	873.3	996.8	1804.7	2596.1	2913.1	3217.9	3641.5
2.5°	297.4	394.6	513.3	780.7	960.7	1077.6	1933.8	2793.4	3110.2	3430.0	3871.7
0°	340.9	440.3	570.8	857.2	1042.3	1153.3	2028.1	2959.3	3274.9	3608.0	4073.7
-2.5°	377.1	486.8	631.5	893.5	1064.9	1172.6	1997.1	2957.7	3336.3	3706.4	4188.2
-5°	407.3	530.3	687.5	923.5	1083.1	1188.5	1935.8	2911.0	3387.1	3785.1	4274.5
-7.5°	431.0	570.3	737.9	946.9	1094.2	1196.4	1908.8	2930.4	3477.6	3854.2	4331.0
-10°	444.0	586.2	741.6	945.9	1096.3	1198.2	1849.2	2890.3	3552.8	3915.7	4354.9
-12.5°	426.7	579.5	732.0	936.2	1096.9	1197.5	1734.4	2784.2	3614.4	3974.3	4333.1
-15°	407.5	569.6	716.2	917.0	1097.0	1194.7	1559.1	2607.4	3579.4	3869.5	4242.3
-17.5°	387.5	556.2	694.2	887.9	1097.5	1189.9	1309.9	2228.1	3230.2	3647.7	4095.8
-20°	367.4	539.4	665.5	848.3	1091.7	1158.0	1213.7	1843.0	2721.1	3365.6	3818.4



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	348.4	519.2	636.4	810.4	1007.1	1103.1	1156.0	1470.1	2196.8	3022.7	3404.0
-25°	338.0	489.3	611.1	752.5	918.7	1045.9	1091.4	1156.6	1733.8	2480.8	3025.9
-27.5°	332.6	463.3	577.2	695.0	836.9	977.2	1026.5	1083.2	1377.0	1950.3	2628.6
-30°	323.9	430.1	541.5	642.4	769.2	889.2	961.2	1026.1	1105.9	1536.6	2073.1
-32.5°	304.4	395.6	502.7	601.1	706.3	812.5	913.9	984.6	1049.7	1166.5	1590.8
-35°	281.6	366.5	462.3	558.2	647.1	750.7	856.1	948.7	1001.3	1055.7	1242.8
-37.5°	262.6	335.6	421.1	513.7	599.3	693.2	795.4	893.3	966.1	1015.7	1086.7
-40°	242.2	303.1	383.8	468.2	552.0	636.8	730.8	826.0	916.8	992.6	1049.9
-42.5°	220.2	278.8	346.7	422.3	502.5	582.3	664.3	754.8	850.3	949.2	1023.4
-45°	196.1	253.1	309.8	380.4	451.5	525.8	602.1	682.0	778.7	873.5	967.4
-47.5°	170.3	225.5	280.3	338.1	403.6	469.7	538.0	619.4	704.4	793.9	882.2
-50°	143.4	195.0	249.7	302.5	358.3	416.8	477.6	557.8	638.9	716.3	795.5
-52.5°	117.5	162.6	215.0	268.2	317.7	369.2	427.5	497.9	573.7	648.6	719.2
-55°	90.8	132.4	177.5	228.9	279.7	325.8	380.7	443.2	507.2	578.3	646.6
-57.5°	70.0	101.9	141.4	185.3	234.5	285.1	337.4	390.1	448.5	508.7	567.7
-60°	52.2	75.4	105.6	143.5	184.4	233.8	291.0	343.2	392.7	442.0	495.8
-62.5°	36.1	54.4	75.8	102.1	137.7	178.2	227.2	281.3	339.0	382.7	425.7
-65°	32.3	37.3	52.1	71.7	91.5	125.2	164.1	206.6	255.5	300.2	346.8
-67.5°	28.3	32.8	37.5	45.2	62.8	81.5	101.3	135.9	173.0	204.9	238.2
-70°	25.6	28.3	32.2	36.5	41.0	48.5	64.8	82.1	99.3	118.0	144.6
-72.5°	23.1	25.6	28.1	30.5	34.2	38.0	41.7	45.2	55.1	68.6	81.0
-75°	20.9	22.9	25.1	27.4	29.4	31.5	34.1	37.3	40.3	43.5	46.9
-77.5°	18.9	20.2	21.9	23.9	25.5	26.8	28.4	30.3	32.2	34.1	36.0
-80°	16.9	17.5	18.4	19.7	21.1	22.3	23.4	24.2	25.4	26.8	28.3
-82.5°	15.1	15.5	16.0	16.4	17.2	18.1	19.1	20.1	20.8	21.5	22.2
-85°	13.3	13.6	13.9	14.2	14.5	15.0	15.5	16.0	16.4	16.7	17.1
-87.5°	11.5	11.6	11.8	11.9	12.3	12.6	12.8	13.0	13.2	13.4	13.5
-90°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.3	4.9	4.4



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	13.6	13.6	13.6	13.6	13.6	16.5	19.4	22.4	25.3	29.7	34.1
87.5°	3.9	3.8	3.8	3.7	3.7	3.3	2.8	2.4	1.9	1.4	1.0
85°	3.9	3.9	3.9	3.9	3.9	3.4	2.9	2.4	1.9	1.9	1.9
82.5°	3.9	3.9	3.9	3.9	3.9	3.4	2.9	2.4	1.9	1.9	1.9
80°	4.5	4.5	4.4	4.2	3.9	3.5	3.0	2.5	1.9	1.9	1.9
77.5°	5.9	5.4	5.0	4.5	4.0	3.7	3.6	3.6	3.6	3.3	2.9
75°	6.0	5.8	6.0	5.7	5.1	4.7	4.6	4.3	4.0	3.8	3.8
72.5°	11.7	11.7	11.0	10.4	9.3	8.8	8.5	8.0	7.2	6.8	6.6
70°	21.4	21.0	20.2	18.5	15.8	13.6	12.4	11.0	9.7	9.3	9.3
67.5°	31.0	27.9	25.3	22.2	18.4	15.6	14.1	12.4	10.5	9.7	9.7
65°	36.0	29.3	25.0	21.7	19.2	16.4	13.9	11.6	9.4	8.5	8.7
62.5°	34.1	25.4	20.1	17.0	14.7	13.2	11.2	9.6	8.4	7.9	7.9
60°	28.3	19.0	14.3	12.7	11.2	9.8	9.2	8.4	7.4	6.5	6.8
57.5°	22.0	15.2	11.6	11.0	10.5	9.9	9.1	8.2	7.6	7.1	7.5
55°	16.4	13.5	11.8	11.9	11.6	10.6	9.6	9.5	9.3	9.0	9.2
52.5°	14.3	14.3	14.8	14.6	13.3	12.2	11.5	11.5	11.7	12.0	12.6
50°	16.3	16.9	16.6	15.3	15.0	14.5	13.6	14.4	15.6	16.0	16.4
47.5°	19.4	19.8	20.0	18.7	19.0	20.4	20.7	21.3	23.5	25.1	26.6
45°	25.0	27.1	27.7	28.5	29.0	32.0	33.4	34.2	40.3	43.1	43.5
42.5°	36.0	39.3	42.0	46.3	45.7	53.0	62.4	67.4	67.0	65.1	65.0
40°	52.7	58.4	71.3	78.2	85.7	94.2	95.0	84.6	84.7	95.3	94.7
37.5°	81.2	101.2	119.4	135.5	139.5	134.6	136.4	144.3	153.8	154.7	159.3
35°	137.0	177.4	186.8	199.2	212.7	199.9	198.3	211.0	206.7	228.6	244.3
32.5°	236.9	294.3	311.7	326.6	364.4	342.6	282.1	370.1	350.4	374.9	412.2
30°	376.9	489.7	565.5	588.1	597.7	600.3	657.1	707.6	747.5	800.8	876.2
27.5°	713.8	788.6	914.6	985.3	896.3	933.1	1079.1	1105.6	1255.9	1419.4	1553.6
25°	1085.5	1169.4	1393.7	1421.9	1347.5	1484.2	1625.4	1654.6	1919.9	2112.4	2573.3
22.5°	1421.4	1562.0	1802.1	1870.2	1932.2	2094.6	2258.6	2454.3	3051.9	3793.0	5137.7
20°	1705.8	1862.7	2097.3	2286.8	2441.5	2648.7	2839.9	3507.8	4795.0	7610.5	10672.8
17.5°	2050.0	2147.2	2437.3	2690.7	2933.1	3229.9	4074.7	5761.7	9488.2	15622.7	21436.9
15°	2513.9	2707.1	2887.0	3161.3	3614.1	4477.5	6341.4	11836.8	19632.9	30333.0	43586.5
12.5°	3048.7	3315.2	3564.7	3797.3	4447.0	6483.5	12430.7	21960.5	35065.8	52254.5	78265.5
10°	3526.3	3933.4	4239.9	4645.7	5903.8	9864.2	19045.2	32517.7	55546.2	85917.0	119861.5
7.5°	3857.8	4341.7	4754.9	5358.3	7409.9	14119.2	26828.8	47809.5	80543.8	121466.6	167256.8
5°	4173.3	4718.9	5124.5	5866.7	8405.6	17074.9	32728.5	60555.8	105010.8	159084.5	217874.5
2.5°	4471.3	5052.0	5450.8	6322.2	9034.3	18422.1	35199.6	68479.7	120837.1	184887.5	254709.7
0°	4747.7	5297.1	5714.0	6536.2	9565.6	19715.6	37301.9	71034.7	126183.9	192484.5	265923.2
-2.5°	4696.1	5104.5	5566.1	6390.2	9060.1	18328.7	34851.9	68033.8	119906.6	183415.5	250966.7
-5°	4678.1	5009.3	5426.0	6173.0	8435.9	15837.3	30953.9	61258.3	109621.4	166855.6	229773.4
-7.5°	4691.9	4954.9	5280.7	5898.4	7682.0	13390.1	26913.0	53103.4	93050.0	141508.6	198325.9
-10°	4721.3	4924.8	5255.1	5798.5	7047.0	10702.5	20367.6	40913.8	73161.0	111703.6	155976.0
-12.5°	4772.3	5046.3	5377.8	5747.1	6408.8	8524.6	16018.5	31760.2	54093.0	81170.9	114858.3
-15°	4754.8	5108.1	5482.6	5710.6	6070.9	7248.6	10390.3	20970.9	37427.7	55386.4	75773.6
-17.5°	4626.7	5049.8	5214.3	5391.2	5610.4	6190.6	7944.1	12647.8	22019.0	33818.8	45288.9
-20°	4329.4	4543.4	4749.3	4960.5	5203.1	5523.3	6068.8	7901.0	10645.2	17340.9	22938.5



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3771.4	3977.3	4155.7	4498.2	4743.2	4978.4	5278.8	5675.3	6730.7	8388.6	11144.0
-25°	3292.6	3419.6	3670.4	4070.4	4333.7	4474.5	4662.9	4813.3	5175.1	5560.2	6511.9
-27.5°	2910.0	3100.3	3409.5	3759.7	4012.1	4125.4	4224.4	4312.8	4540.0	4697.5	4967.8
-30°	2607.3	2915.4	3205.1	3525.6	3757.7	3892.3	3934.5	4062.1	4210.2	4322.6	4432.1
-32.5°	2173.0	2715.0	2978.5	3243.9	3506.1	3671.9	3785.5	3886.0	4025.0	4111.3	4154.4
-35°	1705.4	2260.3	2779.1	2957.2	3147.8	3385.9	3579.7	3682.0	3773.5	3856.7	3909.2
-37.5°	1287.1	1741.6	2224.5	2658.9	2862.9	3041.2	3323.1	3493.8	3576.7	3700.7	3771.3
-40°	1116.2	1245.2	1657.3	2064.0	2430.1	2835.9	3110.2	3373.3	3633.5	3792.9	3896.4
-42.5°	1078.0	1130.6	1179.5	1464.6	1830.6	2198.3	2602.5	3048.9	3422.2	3703.4	3964.6
-45°	1047.0	1087.1	1126.4	1171.1	1214.0	1495.2	1811.3	2144.1	2573.6	2989.4	3348.5
-47.5°	967.2	1043.0	1087.3	1121.0	1156.0	1194.9	1230.7	1306.2	1595.0	1902.2	2193.9
-50°	876.5	951.7	1019.0	1081.3	1126.3	1156.5	1179.0	1208.6	1243.1	1273.8	1302.0
-52.5°	787.2	860.1	928.5	996.2	1059.7	1118.2	1172.2	1206.2	1232.4	1255.4	1269.6
-55°	712.1	775.0	836.4	903.3	968.5	1030.7	1089.3	1142.0	1191.6	1238.0	1264.5
-57.5°	630.0	691.9	753.3	815.1	874.7	931.8	988.4	1043.6	1095.9	1143.7	1172.6
-60°	548.8	600.8	661.8	725.3	784.6	839.9	896.2	949.7	999.2	1041.3	1067.2
-62.5°	472.5	521.0	571.7	628.1	689.2	748.8	798.9	849.5	900.0	943.5	973.2
-65°	391.6	432.3	473.4	517.6	564.2	613.1	663.2	712.5	760.6	800.0	828.2
-67.5°	277.1	317.4	356.7	396.0	431.9	467.9	506.3	545.1	583.6	615.3	640.3
-70°	170.8	196.0	219.8	245.3	275.3	306.6	338.7	368.6	396.3	416.8	432.0
-72.5°	92.2	102.3	114.5	133.6	151.4	170.1	189.5	208.1	225.6	238.5	248.2
-75°	50.5	55.1	63.0	70.4	77.4	85.7	94.2	102.1	109.5	116.8	123.5
-77.5°	38.2	40.5	42.6	44.5	46.1	49.0	52.3	55.6	59.0	63.4	68.0
-80°	29.8	31.0	32.2	33.4	34.5	36.5	38.7	40.8	42.8	44.9	46.9
-82.5°	23.0	23.6	24.2	24.6	25.1	26.4	27.8	29.1	30.4	32.5	34.6
-85°	17.4	17.8	18.2	18.5	18.8	19.8	20.8	21.9	23.0	24.5	26.1
-87.5°	13.6	14.0	14.5	14.9	15.4	16.1	16.7	17.3	17.8	19.2	20.7
-90°	3.9	3.4	2.9	2.4	1.9	1.9	1.9	1.9	1.9	1.4	1.0



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	38.5	42.9	45.8	48.7	45.8	42.9	38.5	34.1	29.7	25.3	22.4
87.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.4	1.9	2.4
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.4
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.4
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.5
77.5°	2.4	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.3	3.6	3.6
75°	3.8	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.8	4.0	4.3
72.5°	6.2	5.8	5.8	5.8	5.8	5.8	6.2	6.6	6.8	7.2	8.0
70°	9.5	9.6	9.7	9.7	9.7	9.6	9.5	9.3	9.3	9.7	11.0
67.5°	9.7	9.7	8.8	7.8	8.8	9.7	9.7	9.7	9.7	10.5	12.4
65°	9.1	9.6	8.8	7.8	8.8	9.6	9.1	8.7	8.5	9.4	11.6
62.5°	7.9	7.9	7.8	7.8	7.8	7.9	7.9	7.9	7.9	8.4	9.6
60°	7.2	7.7	7.8	7.8	7.8	7.7	7.2	6.8	6.5	7.4	8.4
57.5°	7.7	7.8	8.6	9.7	8.6	7.8	7.7	7.5	7.1	7.6	8.2
55°	9.4	9.6	9.7	9.7	9.7	9.6	9.4	9.2	9.0	9.3	9.5
52.5°	13.0	13.3	13.5	13.6	13.5	13.3	13.0	12.6	12.0	11.7	11.5
50°	16.9	17.2	16.8	15.6	16.8	17.2	16.9	16.4	16.0	15.6	14.4
47.5°	27.9	28.6	28.4	27.3	28.4	28.6	27.9	26.6	25.1	23.5	21.3
45°	44.6	44.6	44.4	44.8	44.4	44.6	44.6	43.5	43.1	40.3	34.2
42.5°	66.7	67.4	67.6	68.2	67.6	67.4	66.7	65.0	65.1	67.0	67.4
40°	96.5	97.0	95.8	93.5	95.8	97.0	96.5	94.7	95.3	84.7	84.6
37.5°	167.4	171.2	170.2	167.5	170.2	171.2	167.4	159.3	154.7	153.8	144.3
35°	249.9	247.7	241.1	241.6	241.1	247.7	249.9	244.3	228.6	206.7	211.0
32.5°	390.4	404.5	408.9	411.1	408.9	404.5	390.4	412.2	374.9	350.4	370.1
30°	929.5	901.4	776.7	738.4	776.7	901.4	929.5	876.2	800.8	747.5	707.6
27.5°	1651.1	1740.1	1821.5	1829.3	1821.5	1740.1	1651.1	1553.6	1419.4	1255.9	1105.6
25°	3049.3	3348.8	3475.1	3458.0	3475.1	3348.8	3049.3	2573.3	2112.4	1919.9	1654.6
22.5°	6727.8	7750.0	8282.8	8301.2	8282.8	7750.0	6727.8	5137.7	3793.0	3051.9	2454.3
20°	14679.9	17147.2	17770.3	17584.3	17770.3	17147.2	14679.9	10672.8	7610.5	4795.0	3507.8
17.5°	30268.4	37567.2	42550.2	42893.2	42550.2	37567.2	30268.4	21436.9	15622.7	9488.2	5761.7
15°	58911.5	72328.1	79285.7	80467.8	79285.7	72328.1	58911.5	43586.5	30333.0	19632.9	11836.8
12.5°	102913.9	123335.0	134697.3	136641.7	134697.3	123335.0	102913.9	78265.5	52254.5	35065.8	21960.5
10°	156976.3	185458.8	203978.8	212338.4	203978.8	185458.8	156976.3	119861.5	85917.0	55546.2	32517.7
7.5°	212448.4	257320.6	293965.9	302274.3	293965.9	257320.6	212448.4	167256.8	121466.6	80543.8	47809.5
5°	281074.9	341241.4	376432.6	384559.8	376432.6	341241.4	281074.9	217874.5	159084.5	105010.8	60555.8
2.5°	331965.4	396654.6	433538.8	453808.0	433538.8	396654.6	331965.4	254709.7	184887.5	120837.1	68479.7
0°	347758.6	406621.0	450963.6	482847.6	450963.6	406621.0	347758.6	265923.2	192484.5	126183.9	71034.7
-2.5°	326382.1	388794.9	420970.2	438895.5	420970.2	388794.9	326382.1	250966.7	183415.5	119906.6	68033.8
-5°	292374.6	349745.9	384835.3	395652.7	384835.3	349745.9	292374.6	229773.4	166855.6	109621.4	61258.3
-7.5°	247820.0	289716.7	315995.3	329245.9	315995.3	289716.7	247820.0	198325.9	141508.6	93050.0	53103.4
-10°	199593.7	231391.2	250992.4	258323.3	250992.4	231391.2	199593.7	155976.0	111703.6	73161.0	40913.8
-12.5°	146189.8	171515.9	186574.6	192384.1	186574.6	171515.9	146189.8	114858.3	81170.9	54093.0	31760.2
-15°	96492.0	114748.5	126331.6	130376.3	126331.6	114748.5	96492.0	75773.6	55386.4	37427.7	20970.9
-17.5°	58483.6	68561.2	76059.4	77950.7	76059.4	68561.2	58483.6	45288.9	33818.8	22019.0	12647.8
-20°	30948.5	35483.5	38016.1	39729.3	38016.1	35483.5	30948.5	22938.5	17340.9	10645.2	7901.0



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	14672.0	17141.7	18279.9	19148.7	18279.9	17141.7	14672.0	11144.0	8388.6	6730.7	5675.3
-25°	7342.8	7853.6	8076.0	8386.9	8076.0	7853.6	7342.8	6511.9	5560.2	5175.1	4813.3
-27.5°	5150.4	5270.2	5317.5	5355.6	5317.5	5270.2	5150.4	4967.8	4697.5	4540.0	4312.8
-30°	4488.2	4508.0	4505.1	4502.3	4505.1	4508.0	4488.2	4432.1	4322.6	4210.2	4062.1
-32.5°	4201.0	4222.0	4220.5	4217.8	4220.5	4222.0	4201.0	4154.4	4111.3	4025.0	3886.0
-35°	3942.9	3970.2	3983.7	3989.9	3983.7	3970.2	3942.9	3909.2	3856.7	3773.5	3682.0
-37.5°	3810.6	3816.5	3801.0	3783.4	3801.0	3816.5	3810.6	3771.3	3700.7	3576.7	3493.8
-40°	3947.2	4039.8	4132.8	4161.3	4132.8	4039.8	3947.2	3896.4	3792.9	3633.5	3373.3
-42.5°	4050.6	4110.1	4136.9	4128.2	4136.9	4110.1	4050.6	3964.6	3703.4	3422.2	3048.9
-45°	3585.8	3770.1	3879.4	3906.1	3879.4	3770.1	3585.8	3348.5	2989.4	2573.6	2144.1
-47.5°	2438.5	2645.1	2775.1	2817.1	2775.1	2645.1	2438.5	2193.9	1902.2	1595.0	1306.2
-50°	1329.3	1355.3	1363.8	1355.9	1363.8	1355.3	1329.3	1302.0	1273.8	1243.1	1208.6
-52.5°	1283.7	1299.1	1309.1	1315.0	1309.1	1299.1	1283.7	1269.6	1255.4	1232.4	1206.2
-55°	1287.2	1307.0	1317.9	1322.8	1317.9	1307.0	1287.2	1264.5	1238.0	1191.6	1142.0
-57.5°	1198.3	1220.6	1231.3	1235.1	1231.3	1220.6	1198.3	1172.6	1143.7	1095.9	1043.6
-60°	1090.6	1111.8	1120.0	1122.2	1120.0	1111.8	1090.6	1067.2	1041.3	999.2	949.7
-62.5°	1000.7	1025.7	1036.3	1040.3	1036.3	1025.7	1000.7	973.2	943.5	900.0	849.5
-65°	853.1	874.5	881.6	882.5	881.6	874.5	853.1	828.2	800.0	760.6	712.5
-67.5°	662.6	681.8	688.6	689.7	688.6	681.8	662.6	640.3	615.3	583.6	545.1
-70°	444.2	453.4	457.3	457.8	457.3	453.4	444.2	432.0	416.8	396.3	368.6
-72.5°	255.8	261.4	263.2	263.0	263.2	261.4	255.8	248.2	238.5	225.6	208.1
-75°	129.5	134.8	136.1	136.4	136.1	134.8	129.5	123.5	116.8	109.5	102.1
-77.5°	72.7	77.2	77.8	77.9	77.8	77.2	72.7	68.0	63.4	59.0	55.6
-80°	48.7	50.5	50.7	50.7	50.7	50.5	48.7	46.9	44.9	42.8	40.8
-82.5°	36.8	38.9	39.0	39.0	39.0	38.9	36.8	34.6	32.5	30.4	29.1
-85°	27.6	29.1	30.2	31.2	30.2	29.1	27.6	26.1	24.5	23.0	21.9
-87.5°	22.1	23.5	24.4	25.3	24.4	23.5	22.1	20.7	19.2	17.8	17.3
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.4	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	19.4	16.5	13.6	13.6	13.6	13.6	13.6	13.1	12.7	12.2	11.7
87.5°	2.8	3.3	3.7	3.7	3.8	3.8	3.9	4.4	4.9	5.3	5.8
85°	2.9	3.4	3.9	3.9	3.9	3.9	3.9	4.4	4.9	5.3	5.8
82.5°	2.9	3.4	3.9	3.9	3.9	3.9	3.9	4.4	4.9	5.4	5.8
80°	3.0	3.5	3.9	4.2	4.4	4.5	4.5	4.8	5.0	5.4	5.8
77.5°	3.6	3.7	4.0	4.5	5.0	5.4	5.9	6.3	6.6	6.8	6.8
75°	4.6	4.7	5.1	5.7	6.0	5.8	6.0	6.5	7.0	7.5	7.8
72.5°	8.5	8.8	9.3	10.4	11.0	11.7	11.7	11.0	10.0	8.7	7.8
70°	12.4	13.6	15.8	18.5	20.2	21.0	21.4	20.5	17.8	15.7	13.0
67.5°	14.1	15.6	18.4	22.2	25.3	27.9	31.0	34.1	34.1	31.3	22.4
65°	13.9	16.4	19.2	21.7	25.0	29.3	36.0	40.3	43.1	44.3	36.4
62.5°	11.2	13.2	14.7	17.0	20.1	25.4	34.1	41.2	47.3	48.6	41.1
60°	9.2	9.8	11.2	12.7	14.3	19.0	28.3	38.1	48.3	46.9	42.0
57.5°	9.1	9.9	10.5	11.0	11.6	15.2	22.0	31.4	41.9	41.4	38.6
55°	9.6	10.6	11.6	11.9	11.8	13.5	16.4	22.2	30.7	33.3	32.1
52.5°	11.5	12.2	13.3	14.6	14.8	14.3	14.3	17.6	20.3	23.8	25.7
50°	13.6	14.5	15.0	15.3	16.6	16.9	16.3	16.1	17.8	19.1	19.8
47.5°	20.7	20.4	19.0	18.7	20.0	19.8	19.4	19.2	20.3	19.2	19.1
45°	33.4	32.0	29.0	28.5	27.7	27.1	25.0	26.2	26.3	25.0	21.2
42.5°	62.4	53.0	45.7	46.3	42.0	39.3	36.0	35.9	35.2	33.1	30.8
40°	95.0	94.2	85.7	78.2	71.3	58.4	52.7	47.5	46.0	43.3	43.1
37.5°	136.4	134.6	139.5	135.5	119.4	101.2	81.2	65.8	57.6	63.5	62.0
35°	198.3	199.9	212.7	199.2	186.8	177.4	137.0	99.0	85.8	95.4	88.7
32.5°	282.1	342.6	364.4	326.6	311.7	294.3	236.9	163.5	152.5	146.4	129.9
30°	657.1	600.3	597.7	588.1	565.5	489.7	376.9	372.9	305.2	213.8	183.6
27.5°	1079.1	933.1	896.3	985.3	914.6	788.6	713.8	707.9	534.9	368.5	257.9
25°	1625.4	1484.2	1347.5	1421.9	1393.7	1169.4	1085.5	1069.0	923.3	582.3	350.5
22.5°	2258.6	2094.6	1932.2	1870.2	1802.1	1562.0	1421.4	1409.9	1349.9	837.3	524.2
20°	2839.9	2648.7	2441.5	2286.8	2097.3	1862.7	1705.8	1680.0	1517.6	1126.0	706.6
17.5°	4074.7	3229.9	2933.1	2690.7	2437.3	2147.2	2050.0	1941.2	1723.4	1374.8	882.2
15°	6341.4	4477.5	3614.1	3161.3	2887.0	2707.1	2513.9	2282.0	1964.5	1571.3	1123.5
12.5°	12430.7	6483.5	4447.0	3797.3	3564.7	3315.2	3048.7	2699.8	2268.7	1900.4	1491.4
10°	19045.2	9864.2	5903.8	4645.7	4239.9	3933.4	3526.3	3069.1	2627.1	2267.0	1865.3
7.5°	26828.8	14119.2	7409.9	5358.3	4754.9	4341.7	3857.8	3374.8	2941.2	2603.1	2236.9
5°	32728.5	17074.9	8405.6	5866.7	5124.5	4718.9	4173.3	3641.5	3217.9	2913.1	2596.1
2.5°	35199.6	18422.1	9034.3	6322.2	5450.8	5052.0	4471.3	3871.7	3430.0	3110.2	2793.4
0°	37301.9	19715.6	9565.6	6536.2	5714.0	5297.1	4747.7	4073.7	3608.0	3274.9	2959.3
-2.5°	34851.9	18328.7	9060.1	6390.2	5566.1	5104.5	4696.1	4188.2	3706.4	3336.3	2957.7
-5°	30953.9	15837.3	8435.9	6173.0	5426.0	5009.3	4678.1	4274.5	3785.1	3387.1	2911.0
-7.5°	26913.0	13390.1	7682.0	5898.4	5280.7	4954.9	4691.9	4331.0	3854.2	3477.6	2930.4
-10°	20367.6	10702.5	7047.0	5798.5	5255.1	4924.8	4721.3	4354.9	3915.7	3552.8	2890.3
-12.5°	16018.5	8524.6	6408.8	5747.1	5377.8	5046.3	4772.3	4333.1	3974.3	3614.4	2784.2
-15°	10390.3	7248.6	6070.9	5710.6	5482.6	5108.1	4754.8	4242.3	3869.5	3579.4	2607.4
-17.5°	7944.1	6190.6	5610.4	5391.2	5214.3	5049.8	4626.7	4095.8	3647.7	3230.2	2228.1
-20°	6068.8	5523.3	5203.1	4960.5	4749.3	4543.4	4329.4	3818.4	3365.6	2721.1	1843.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5278.8	4978.4	4743.2	4498.2	4155.7	3977.3	3771.4	3404.0	3022.7	2196.8	1470.1
-25°	4662.9	4474.5	4333.7	4070.4	3670.4	3419.6	3292.6	3025.9	2480.8	1733.8	1156.6
-27.5°	4224.4	4125.4	4012.1	3759.7	3409.5	3100.3	2910.0	2628.6	1950.3	1377.0	1083.2
-30°	3934.5	3892.3	3757.7	3525.6	3205.1	2915.4	2607.3	2073.1	1536.6	1105.9	1026.1
-32.5°	3785.5	3671.9	3506.1	3243.9	2978.5	2715.0	2173.0	1590.8	1166.5	1049.7	984.6
-35°	3579.7	3385.9	3147.8	2957.2	2779.1	2260.3	1705.4	1242.8	1055.7	1001.3	948.7
-37.5°	3323.1	3041.2	2862.9	2658.9	2224.5	1741.6	1287.1	1086.7	1015.7	966.1	893.3
-40°	3110.2	2835.9	2430.1	2064.0	1657.3	1245.2	1116.2	1049.9	992.6	916.8	826.0
-42.5°	2602.5	2198.3	1830.6	1464.6	1179.5	1130.6	1078.0	1023.4	949.2	850.3	754.8
-45°	1811.3	1495.2	1214.0	1171.1	1126.4	1087.1	1047.0	967.4	873.5	778.7	682.0
-47.5°	1230.7	1194.9	1156.0	1121.0	1087.3	1043.0	967.2	882.2	793.9	704.4	619.4
-50°	1179.0	1156.5	1126.3	1081.3	1019.0	951.7	876.5	795.5	716.3	638.9	557.8
-52.5°	1172.2	1118.2	1059.7	996.2	928.5	860.1	787.2	719.2	648.6	573.7	497.9
-55°	1089.3	1030.7	968.5	903.3	836.4	775.0	712.1	646.6	578.3	507.2	443.2
-57.5°	988.4	931.8	874.7	815.1	753.3	691.9	630.0	567.7	508.7	448.5	390.1
-60°	896.2	839.9	784.6	725.3	661.8	600.8	548.8	495.8	442.0	392.7	343.2
-62.5°	798.9	748.8	689.2	628.1	571.7	521.0	472.5	425.7	382.7	339.0	281.3
-65°	663.2	613.1	564.2	517.6	473.4	432.3	391.6	346.8	300.2	255.5	206.6
-67.5°	506.3	467.9	431.9	396.0	356.7	317.4	277.1	238.2	204.9	173.0	135.9
-70°	338.7	306.6	275.3	245.3	219.8	196.0	170.8	144.6	118.0	99.3	82.1
-72.5°	189.5	170.1	151.4	133.6	114.5	102.3	92.2	81.0	68.6	55.1	45.2
-75°	94.2	85.7	77.4	70.4	63.0	55.1	50.5	46.9	43.5	40.3	37.3
-77.5°	52.3	49.0	46.1	44.5	42.6	40.5	38.2	36.0	34.1	32.2	30.3
-80°	38.7	36.5	34.5	33.4	32.2	31.0	29.8	28.3	26.8	25.4	24.2
-82.5°	27.8	26.4	25.1	24.6	24.2	23.6	23.0	22.2	21.5	20.8	20.1
-85°	20.8	19.8	18.8	18.5	18.2	17.8	17.4	17.1	16.7	16.4	16.0
-87.5°	16.7	16.1	15.4	14.9	14.5	14.0	13.6	13.5	13.4	13.2	13.0
-90°	1.9	1.9	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.3	5.8



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	11.2	10.7	10.2	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
87.5°	5.8	5.8	5.8	5.8	6.1	6.3	6.5	6.6	6.9	7.1	7.5
85°	5.8	5.8	5.8	5.8	6.3	6.8	7.2	7.5	7.5	7.5	7.6
82.5°	5.8	5.8	5.8	5.8	6.3	6.8	7.3	7.8	7.8	7.8	7.8
80°	5.8	5.8	5.8	5.9	6.4	6.9	7.4	7.8	7.8	7.8	7.8
77.5°	6.5	6.2	5.9	5.9	6.4	6.9	7.4	7.8	7.8	7.8	7.8
75°	7.8	7.5	7.1	6.7	6.7	7.0	7.5	7.8	7.8	7.8	7.8
72.5°	7.8	7.8	7.8	7.8	7.4	7.4	7.6	7.8	7.8	7.8	7.8
70°	10.3	8.3	7.8	7.8	7.8	7.8	7.7	7.9	7.8	7.8	7.8
67.5°	14.7	11.6	9.4	8.0	7.8	7.8	7.8	8.0	8.1	7.8	7.8
65°	26.0	17.5	11.5	9.6	8.3	7.8	7.8	8.2	8.4	8.2	7.8
62.5°	33.5	25.3	17.5	12.0	9.1	8.1	7.8	8.3	8.7	8.7	8.1
60°	37.1	29.3	23.0	17.0	11.5	8.3	7.9	8.4	8.8	9.1	8.6
57.5°	34.2	31.3	26.7	21.3	15.5	10.1	8.0	8.5	8.9	9.3	9.2
55°	29.5	27.3	28.5	24.7	19.0	13.2	9.1	8.6	9.0	9.4	9.7
52.5°	24.5	25.1	27.2	26.7	22.0	16.1	11.6	8.7	9.1	9.5	9.7
50°	20.3	23.9	26.6	27.2	24.6	18.9	13.8	10.2	9.2	9.6	9.7
47.5°	19.6	23.7	26.2	28.2	26.4	21.5	15.9	11.7	9.3	9.7	9.7
45°	23.2	25.0	27.0	28.4	28.1	23.1	18.0	12.8	10.2	9.8	9.7
42.5°	28.7	29.3	29.7	29.0	28.5	24.1	19.8	14.3	10.9	9.9	9.8
40°	39.4	35.4	34.0	33.8	30.0	24.8	20.5	15.8	11.4	10.3	9.9
37.5°	51.8	45.1	40.4	43.0	34.4	27.2	20.8	17.0	12.6	11.1	10.1
35°	73.8	57.8	54.5	55.9	45.9	30.6	20.8	17.7	14.6	12.0	10.4
32.5°	100.4	85.0	81.2	71.4	60.7	34.9	22.9	19.4	16.7	13.0	10.6
30°	148.4	135.5	117.0	89.3	77.8	48.6	27.7	21.4	18.9	14.0	11.1
27.5°	221.7	194.0	162.1	121.2	94.8	65.4	33.8	23.7	21.1	15.4	11.9
25°	299.1	261.1	218.1	162.6	113.4	87.8	39.7	26.4	23.2	17.2	12.8
22.5°	385.4	330.1	279.2	209.2	143.0	113.6	51.7	31.4	25.2	19.0	13.6
20°	472.6	399.3	347.0	261.5	183.5	138.5	71.3	36.2	27.5	20.8	14.5
17.5°	571.8	486.1	426.8	323.1	227.9	165.7	92.3	40.7	29.8	22.5	15.4
15°	770.3	593.1	511.2	390.7	270.6	194.6	114.3	44.9	32.2	24.2	16.2
12.5°	1010.8	698.7	599.7	462.3	311.3	224.6	136.6	48.7	34.6	25.9	16.9
10°	1275.6	802.5	690.5	535.9	349.8	255.1	158.5	54.7	38.4	27.5	17.6
7.5°	1552.5	903.6	781.8	609.3	390.4	296.0	202.5	65.8	42.5	29.1	18.2
5°	1804.7	996.8	873.3	696.8	452.9	346.5	250.6	77.2	46.7	30.6	18.7
2.5°	1933.8	1077.6	960.7	780.7	513.3	394.6	297.4	88.5	50.7	31.9	19.1
0°	2028.1	1153.3	1042.3	857.2	570.8	440.3	340.9	99.4	54.5	33.1	19.5
-2.5°	1997.1	1172.6	1064.9	893.5	631.5	486.8	377.1	128.3	71.2	42.9	24.0
-5°	1935.8	1188.5	1083.1	923.5	687.5	530.3	407.3	155.7	87.2	52.2	28.4
-7.5°	1908.8	1196.4	1094.2	946.9	737.9	570.3	431.0	180.6	102.1	60.8	32.4
-10°	1849.2	1198.2	1096.3	945.9	741.6	586.2	444.0	202.6	115.6	68.5	36.0
-12.5°	1734.4	1197.5	1096.9	936.2	732.0	579.5	426.7	215.7	127.2	75.1	39.0
-15°	1559.1	1194.7	1097.0	917.0	716.2	569.6	407.5	223.5	136.3	81.0	41.3
-17.5°	1309.9	1189.9	1097.5	887.9	694.2	556.2	387.5	228.7	143.8	86.4	43.9
-20°	1213.7	1158.0	1091.7	848.3	665.5	539.4	367.4	231.3	149.6	90.4	46.4



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1156.0	1103.1	1007.1	810.4	636.4	519.2	348.4	231.2	153.5	92.9	47.7
-25°	1091.4	1045.9	918.7	752.5	611.1	489.3	338.0	228.2	155.4	93.7	47.6
-27.5°	1026.5	977.2	836.9	695.0	577.2	463.3	332.6	229.3	155.5	92.8	46.1
-30°	961.2	889.2	769.2	642.4	541.5	430.1	323.9	228.1	154.1	91.0	43.1
-32.5°	913.9	812.5	706.3	601.1	502.7	395.6	304.4	224.2	150.3	87.5	41.5
-35°	856.1	750.7	647.1	558.2	462.3	366.5	281.6	217.6	144.2	81.8	40.0
-37.5°	795.4	693.2	599.3	513.7	421.1	335.6	262.6	200.9	135.5	73.8	37.5
-40°	730.8	636.8	552.0	468.2	383.8	303.1	242.2	182.4	124.5	63.5	34.2
-42.5°	664.3	582.3	502.5	422.3	346.7	278.8	220.2	162.3	107.4	56.3	30.0
-45°	602.1	525.8	451.5	380.4	309.8	253.1	196.1	140.8	88.7	50.4	26.7
-47.5°	538.0	469.7	403.6	338.1	280.3	225.5	170.3	119.0	69.4	43.3	25.5
-50°	477.6	416.8	358.3	302.5	249.7	195.0	143.4	96.4	59.2	34.4	24.1
-52.5°	427.5	369.2	317.7	268.2	215.0	162.6	117.5	74.0	48.1	30.0	22.5
-55°	380.7	325.8	279.7	228.9	177.5	132.4	90.8	60.3	36.2	27.5	20.7
-57.5°	337.4	285.1	234.5	185.3	141.4	101.9	70.0	45.6	31.2	24.9	19.7
-60°	291.0	233.8	184.4	143.5	105.6	75.4	52.2	34.1	28.2	22.5	18.4
-62.5°	227.2	178.2	137.7	102.1	75.8	54.4	36.1	30.7	25.1	21.0	17.1
-65°	164.1	125.2	91.5	71.7	52.1	37.3	32.3	27.2	23.1	19.4	15.8
-67.5°	101.3	81.5	62.8	45.2	37.5	32.8	28.3	24.7	21.2	17.7	14.9
-70°	64.8	48.5	41.0	36.5	32.2	28.3	25.6	22.5	19.3	16.6	14.0
-72.5°	41.7	38.0	34.2	30.5	28.1	25.6	23.1	20.5	18.0	15.5	13.0
-75°	34.1	31.5	29.4	27.4	25.1	22.9	20.9	19.1	16.7	14.4	12.3
-77.5°	28.4	26.8	25.5	23.9	21.9	20.2	18.9	17.6	15.4	13.5	11.7
-80°	23.4	22.3	21.1	19.7	18.4	17.5	16.9	16.1	14.3	12.6	11.1
-82.5°	19.1	18.1	17.2	16.4	16.0	15.5	15.1	14.6	13.1	11.7	10.5
-85°	15.5	15.0	14.5	14.2	13.9	13.6	13.3	13.0	11.9	11.0	10.3
-87.5°	12.8	12.6	12.3	11.9	11.8	11.6	11.5	11.3	10.8	10.4	10.0
-90°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.3	6.8	7.3



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	9.7	9.2	8.8	8.3	7.8	7.8	7.8
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8
85°	7.8	7.8	7.8	7.8	7.8	7.8	7.8
82.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8
80°	7.8	7.8	7.8	7.8	7.8	7.8	7.8
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8
75°	7.8	7.8	7.8	7.8	7.8	7.8	7.8
72.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8
70°	7.8	7.8	7.8	7.8	7.8	7.8	7.8
67.5°	7.9	7.8	7.8	7.8	7.8	7.8	7.8
65°	7.9	7.9	7.8	7.8	7.8	7.8	7.8
62.5°	8.0	8.0	7.8	7.8	7.8	7.8	7.8
60°	8.2	8.2	7.8	7.8	7.8	7.8	7.8
57.5°	8.5	8.4	8.0	7.8	7.8	7.8	7.8
55°	8.9	8.6	8.2	7.8	7.9	7.8	7.8
52.5°	9.2	8.8	8.4	7.8	7.9	7.8	7.8
50°	9.5	9.0	8.6	7.8	7.9	7.8	7.8
47.5°	9.7	9.2	8.8	7.8	8.0	7.8	7.8
45°	9.7	9.3	9.0	8.0	8.0	7.8	7.8
42.5°	9.7	9.5	9.3	8.2	8.1	7.8	7.8
40°	9.7	9.6	9.4	8.4	8.2	7.8	7.8
37.5°	9.7	9.7	9.5	8.6	8.2	7.8	7.8
35°	9.7	9.7	9.6	8.8	8.3	7.8	7.8
32.5°	9.8	9.7	9.7	9.0	8.4	7.8	7.8
30°	10.0	9.7	9.7	9.1	8.5	7.8	7.8
27.5°	10.2	9.7	9.7	9.2	8.6	7.8	7.8
25°	10.4	9.7	9.7	9.4	8.7	7.8	7.8
22.5°	10.7	9.7	9.7	9.4	8.8	7.8	7.8
20°	10.9	9.9	9.7	9.5	8.9	7.8	7.8
17.5°	11.3	10.1	9.7	9.6	9.0	7.8	7.8
15°	11.7	10.3	9.7	9.6	9.1	7.8	7.8
12.5°	12.1	10.5	9.7	9.7	9.2	7.8	7.8
10°	12.4	10.7	9.7	9.7	9.3	7.8	7.8
7.5°	12.7	11.0	9.7	9.7	9.4	7.8	7.8
5°	13.0	11.2	9.7	9.7	9.5	7.8	7.8
2.5°	13.3	11.5	9.7	9.7	9.6	7.8	7.8
0°	13.6	11.7	9.7	9.7	9.7	7.8	7.8
-2.5°	15.1	12.1	9.9	9.8	9.7	7.8	7.8
-5°	16.6	12.5	10.1	10.0	9.7	7.9	7.8
-7.5°	18.0	12.9	10.2	10.1	9.7	7.9	7.8
-10°	19.3	13.2	10.4	10.2	9.7	8.0	7.8
-12.5°	20.3	13.5	10.6	10.3	9.6	8.0	7.8
-15°	21.2	13.7	10.7	10.4	9.6	8.0	7.8
-17.5°	21.8	13.9	10.9	10.5	9.6	8.1	7.8
-20°	22.5	14.0	11.1	10.5	9.5	8.1	7.8



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	23.3	14.0	11.2	10.6	9.5	8.1	7.8
-25°	23.6	14.2	11.4	10.6	9.5	8.2	7.8
-27.5°	23.4	14.4	11.6	10.6	9.5	8.2	7.8
-30°	22.7	14.5	11.7	10.6	9.4	8.2	7.8
-32.5°	21.4	14.5	11.9	10.6	9.4	8.2	7.8
-35°	20.8	14.3	12.1	10.5	9.4	8.2	7.8
-37.5°	20.6	14.2	12.2	10.4	9.4	8.3	7.8
-40°	20.2	14.4	12.3	10.3	9.4	8.3	7.8
-42.5°	19.6	14.4	12.3	10.1	9.4	8.3	7.8
-45°	18.8	14.4	12.1	10.0	9.4	8.3	7.8
-47.5°	17.9	14.3	11.9	9.9	9.4	8.3	7.8
-50°	17.5	14.0	11.7	9.8	9.4	8.3	7.8
-52.5°	17.0	13.7	11.4	9.9	9.4	8.3	7.8
-55°	16.4	13.3	11.1	9.9	9.4	8.2	7.8
-57.5°	15.6	12.9	10.8	9.9	9.4	8.2	7.8
-60°	14.8	12.4	10.4	9.8	9.4	8.2	7.8
-62.5°	14.1	11.9	10.4	9.8	9.4	8.2	7.8
-65°	13.3	11.3	10.3	9.8	9.3	8.2	7.8
-67.5°	12.5	10.9	10.1	9.8	9.1	8.1	7.8
-70°	11.6	10.6	10.0	9.7	9.0	8.1	7.8
-72.5°	11.2	10.4	9.9	9.6	8.9	8.1	7.8
-75°	10.7	10.1	9.7	9.4	8.7	8.0	7.8
-77.5°	10.2	9.8	9.6	9.2	8.6	8.0	7.8
-80°	9.8	9.6	9.4	9.0	8.4	8.0	7.8
-82.5°	9.7	9.5	9.2	8.8	8.3	7.9	7.8
-85°	9.7	9.4	9.1	8.6	8.1	7.9	7.8
-87.5°	9.7	9.3	8.9	8.5	8.0	7.8	7.8
-90°	7.8	7.8	7.8	7.8	7.8	7.8	7.8

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

