

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: P731698 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-70-3S-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731698 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-20)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-57-70-3S-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 70 CRI LEDS AND 3S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

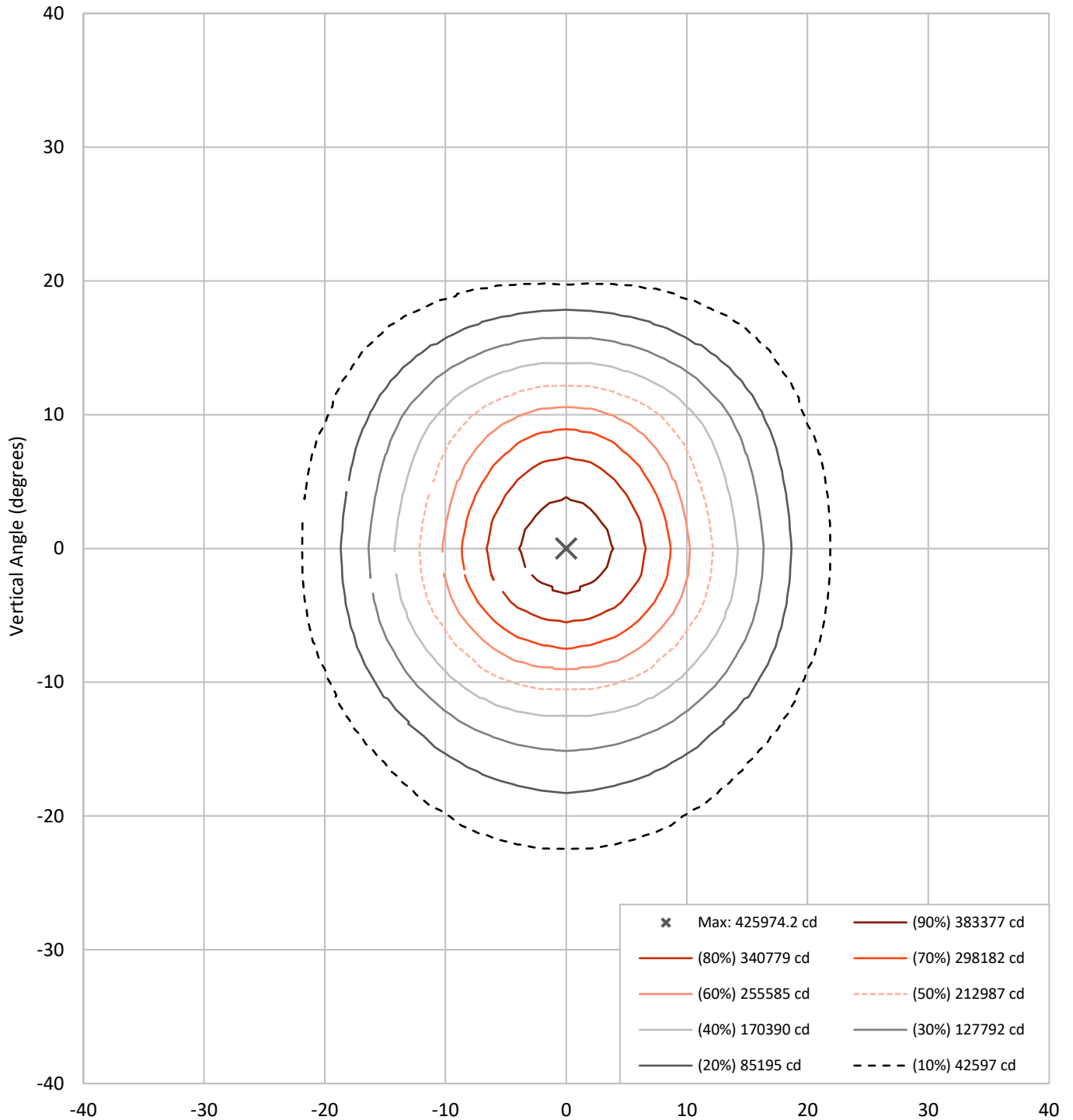
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	88286.6 lumens	Max Intensity:	425974.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	126.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24.3°H x 22.7°V	Field Angle (10%):	43.8°H x 42.1°V
Beam Lumens:	41631.3 lumens	Field Lumens:	75208.7 lumens
Beam Efficiency:	47.2%	Field Efficiency:	85.2%

Input Watts (W): 697.2
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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CATALOG NUMBER: EPH-LS-08-0680N-57-70-3S-CV1

Iso-Candela Plot





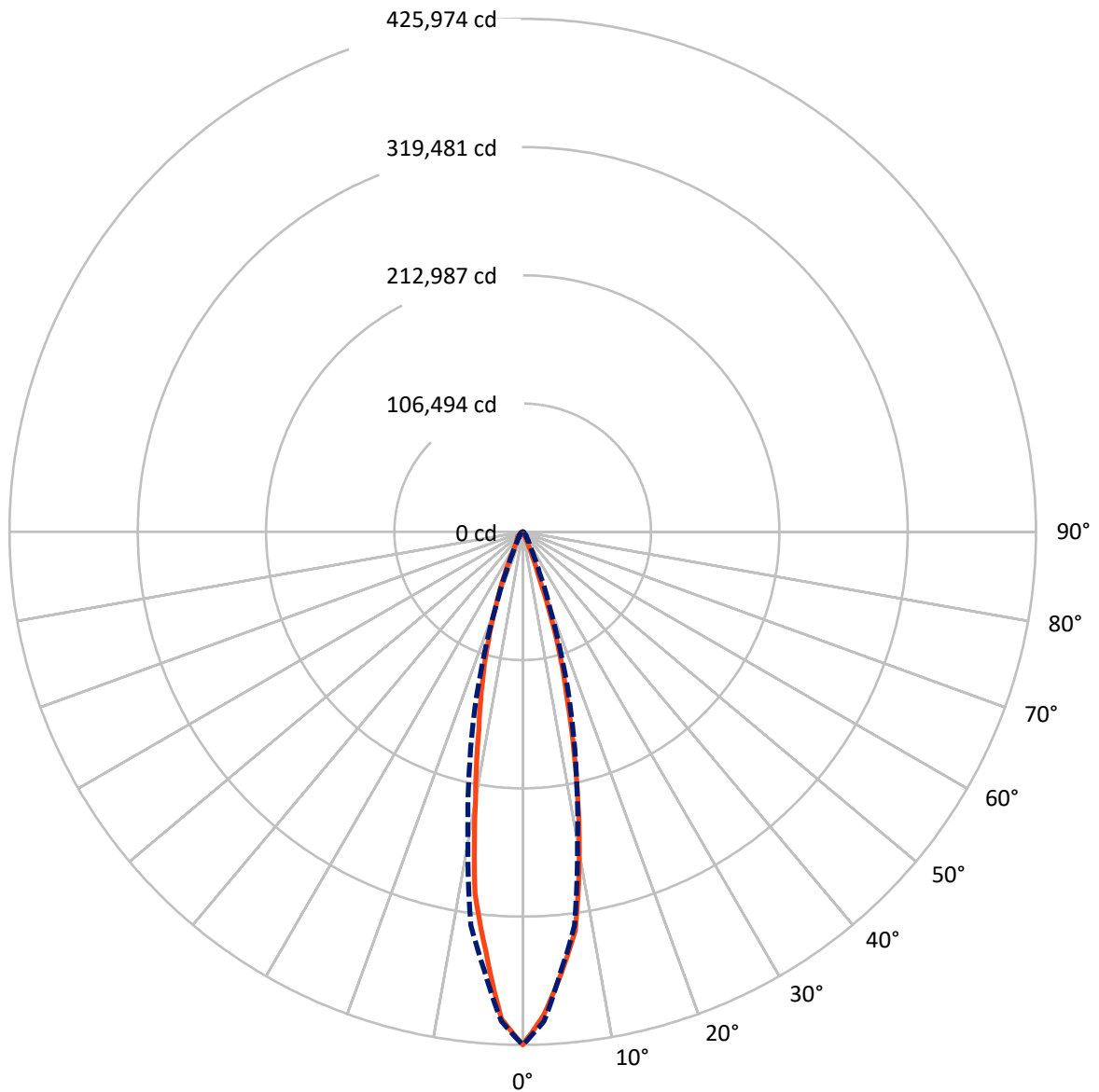
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Lumen Table

90	0.1		0.3		0.5		0.6		0.6		0.6		0.5		0.3		0.1	
80	0.1		0.3		0.5		0.6		0.6		0.6		0.5		0.3		0.1	
70	0.1	0.1	0.2	0.7	0.9	0.7	0.5	0.4	0.4	0.5	0.7	0.9	0.7	0.2	0.1	0.1		
60		0.1	0.5	1.0	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.0	0.5	0.1			
50	0.2	0.3	0.8	0.7	0.8	1.3	2.3	1.6	1.6	2.3	1.3	0.8	0.7	0.8	0.3	0.2		
40		0.5	1.5	3.5	6.2	9.0	12.3	14.8	14.8	12.3	9.0	6.2	3.5	1.5	0.5			
30	0.3	0.8	6.0	18.8	43.5	72.5	148.9	286.6	286.6	148.9	72.5	43.5	18.8	6.0	0.8	0.3		
20		1.8	12.9	48.0	116.1	307.3	1692.0	3992.9	3992.9	1692.0	307.3	116.1	48.0	12.9	1.8			
10	0.4	2.8	17.1	63.8	149.3	655.4	4056.2	9512.7	9512.7	4056.2	655.4	149.3	63.8	17.1	2.8	0.4		
0		3.5	18.3	64.9	149.7	649.0	3985.4	9116.1	9116.1	3985.4	649.0	149.7	64.9	18.3	3.5			
-10	0.8	4.1	17.3	53.9	117.7	309.8	1615.8	3646.8	3646.8	1615.8	309.8	117.7	53.9	17.3	4.1	0.8		
-20		4.3	16.1	40.3	100.3	175.6	402.1	821.9	821.9	402.1	175.6	100.3	40.3	16.1	4.3			
-30	0.6	3.8	13.8	30.5	74.0	145.2	203.9	250.5	250.5	203.9	145.2	74.0	30.5	13.8	3.8	0.6		
-40		2.7	10.5	24.1	44.9	79.7	130.6	167.2	167.2	130.6	79.7	44.9	24.1	10.5	2.7			
-50	0.3	1.3	6.4	16.2	30.6	47.2	63.2	73.1	73.1	63.2	47.2	30.6	16.2	6.4	1.3	0.3		
-60		0.5	2.2	7.0	14.3	22.7	31.0	35.7	35.7	31.0	22.7	14.3	7.0	2.2	0.5			
-70	0.2	1.3	4.5	11.6	15.7	11.6	4.5	1.3	0.2	0.2								
-80		1.3	4.5	11.6	15.7	11.6	4.5	1.3										
-90	0.2		1.3		4.5		11.6		15.7		11.6		4.5		1.3		0.2	

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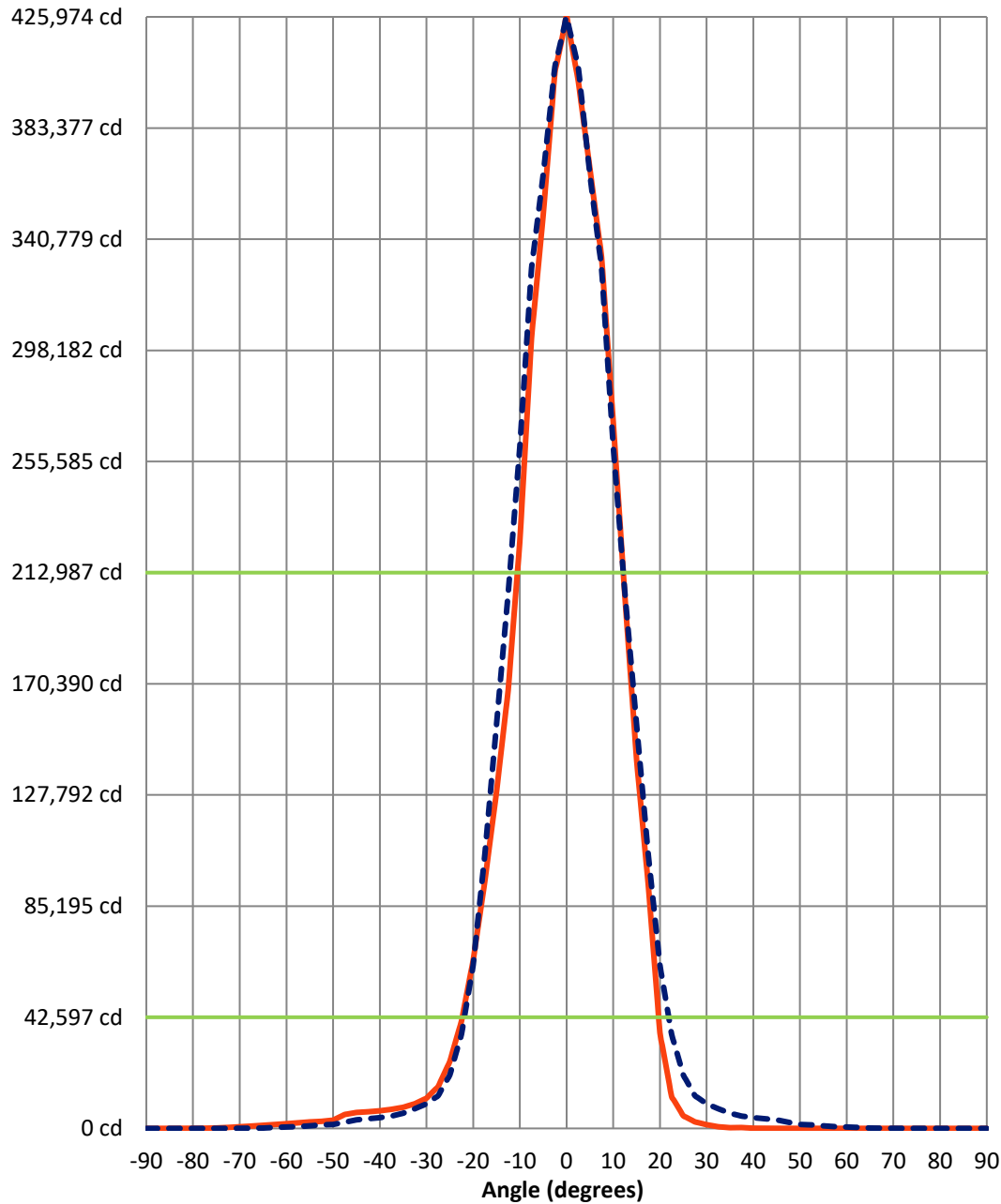
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 24.3°
V Angle: 22.7°
Lumens: 41631.3
Efficiency: 47.2%

Field:
H Angle: 43.8°
V Angle: 42.1°
Lumens: 75208.7
Efficiency: 85.2%

Spill:
Lumens: 13077.9
Efficiency: 14.8%

— 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°	4.3	5.4	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	4.3	4.4	4.5	4.5	4.5	4.4	4.3	4.3	4.3	4.3	4.3
85°	4.3	4.5	4.7	4.7	4.7	4.5	4.3	4.3	4.3	4.3	4.3
82.5°	4.3	4.6	4.9	4.9	4.9	4.7	4.3	4.3	4.3	4.4	4.3
80°	4.3	4.7	5.1	5.2	5.1	4.8	4.4	4.6	4.7	4.6	4.4
77.5°	4.3	4.8	5.3	5.4	5.3	5.0	5.0	5.2	5.1	4.9	4.4
75°	4.3	4.9	5.4	5.6	5.5	5.4	5.5	5.7	5.5	5.0	4.5
72.5°	4.3	5.0	5.6	5.9	5.7	5.7	6.1	6.1	5.6	5.1	4.5
70°	4.3	5.1	5.8	6.1	5.9	6.1	6.5	6.2	5.6	5.1	5.2
67.5°	4.3	5.1	6.0	6.1	6.1	6.4	6.5	6.2	5.7	5.7	6.0
65°	4.3	5.2	6.2	6.2	6.2	6.5	6.5	6.3	6.0	6.2	6.6
62.5°	4.3	5.3	6.3	6.3	6.4	6.5	6.5	6.4	6.3	6.6	6.8
60°	4.3	5.4	6.5	6.3	6.5	6.5	6.5	6.5	6.5	7.0	7.1
57.5°	4.3	5.5	6.5	6.4	6.5	6.5	6.6	6.5	6.9	7.4	7.5
55°	4.3	5.6	6.5	6.4	6.5	6.5	6.7	6.6	7.5	8.0	7.9
52.5°	4.3	5.6	6.5	6.5	6.5	6.5	6.9	7.2	8.1	8.6	8.5
50°	4.3	5.7	6.5	6.5	6.5	6.7	7.1	7.8	8.7	9.2	11.4
47.5°	4.3	5.8	6.5	6.5	6.5	7.0	7.4	8.4	9.4	9.9	14.3
45°	4.3	5.9	6.5	6.5	6.5	7.2	7.9	9.0	10.1	12.2	16.9
42.5°	4.3	5.9	6.5	6.5	6.5	7.5	8.4	9.6	10.7	14.3	21.8
40°	4.3	6.0	6.5	6.5	6.6	7.7	8.9	10.1	11.7	16.1	26.9
37.5°	4.3	6.0	6.5	6.5	6.8	8.0	9.3	10.7	13.1	18.5	31.8
35°	4.3	6.1	6.5	6.5	7.1	8.4	9.8	11.2	14.4	22.9	35.7
32.5°	4.3	6.2	6.5	6.5	7.3	8.7	10.2	11.7	15.6	27.3	39.3
30°	4.3	6.2	6.5	6.5	7.5	9.1	10.6	12.3	16.7	31.7	42.9
27.5°	4.3	6.3	6.5	6.5	7.7	9.4	11.0	13.2	18.6	36.1	46.7
25°	4.3	6.3	6.5	6.5	7.9	9.7	11.4	14.0	22.1	39.6	50.7
22.5°	4.3	6.3	6.5	6.5	8.0	10.0	11.8	14.7	25.4	42.6	57.8
20°	4.3	6.4	6.5	6.5	8.2	10.2	12.1	15.3	28.5	45.7	65.4
17.5°	4.3	6.4	6.5	6.5	8.3	10.3	12.5	15.8	31.4	48.7	73.4
15°	4.3	6.4	6.5	6.5	8.4	10.4	12.9	16.5	34.2	51.6	81.6
12.5°	4.3	6.4	6.5	6.5	8.5	10.5	13.3	17.4	37.3	54.4	89.8
10°	4.3	6.5	6.5	6.5	8.6	10.6	13.7	18.3	40.8	58.8	99.0
7.5°	4.3	6.5	6.5	6.5	8.6	10.7	14.1	19.2	44.1	63.4	110.4
5°	4.3	6.5	6.5	6.5	8.7	10.8	14.5	20.1	47.1	67.8	121.3
2.5°	4.3	6.5	6.5	6.5	8.7	10.8	14.9	20.9	49.7	72.0	131.5
0°	4.3	6.5	6.5	6.5	8.7	10.8	15.2	21.6	51.9	75.8	140.7
-2.5°	4.3	6.5	6.6	6.8	9.1	11.8	17.8	28.4	63.8	95.2	165.7
-5°	4.3	6.5	6.7	7.1	9.4	12.7	20.2	34.8	75.0	113.9	189.2
-7.5°	4.3	6.5	6.8	7.3	9.8	13.5	22.5	40.9	85.3	131.4	210.7
-10°	4.3	6.5	6.9	7.6	10.1	14.3	24.6	46.4	94.4	147.4	230.1
-12.5°	4.3	6.5	7.0	7.9	10.4	15.0	26.4	51.1	102.1	161.6	249.7
-15°	4.3	6.4	7.0	8.1	10.6	15.7	27.9	54.9	109.0	174.5	267.0
-17.5°	4.3	6.4	7.1	8.3	10.9	16.2	29.0	58.5	115.0	185.4	280.2
-20°	4.3	6.4	7.2	8.5	11.1	16.5	30.1	61.6	119.1	193.9	289.0



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 CATALOG NUMBER: EPH-LS-08-0680N-57-70-3S-CV1

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.3	6.4	7.2	8.7	11.3	16.8	31.1	63.3	121.0	199.9	293.0
-25°	4.3	6.3	7.3	8.9	11.5	17.0	31.4	63.6	120.7	203.2	291.8
-27.5°	4.3	6.3	7.3	9.0	11.7	17.1	30.9	62.4	117.9	203.4	294.6
-30°	4.3	6.3	7.3	9.1	11.8	17.0	29.7	59.6	115.3	199.8	294.0
-32.5°	4.3	6.2	7.3	9.2	11.9	16.7	27.6	57.6	111.9	192.8	289.8
-35°	4.3	6.2	7.3	9.2	12.0	16.2	26.5	55.1	106.2	182.5	281.8
-37.5°	4.3	6.2	7.3	9.2	12.0	15.7	25.8	51.3	98.1	168.8	263.8
-40°	4.3	6.2	7.3	9.2	11.9	15.7	24.8	46.2	87.6	156.0	241.5
-42.5°	4.3	6.1	7.2	9.2	11.8	15.6	23.6	39.7	78.7	139.6	215.9
-45°	4.3	6.1	7.1	9.1	11.7	15.4	22.0	34.5	69.7	120.4	188.1
-47.5°	4.3	6.0	7.1	9.0	11.6	15.1	20.0	32.2	59.0	99.2	163.7
-50°	4.3	6.0	7.0	8.8	11.4	14.6	19.3	29.5	46.2	84.4	136.6
-52.5°	4.3	6.0	6.9	8.7	11.1	14.2	18.6	26.3	39.3	68.3	108.0
-55°	4.3	5.9	6.8	8.5	10.9	13.8	17.8	23.1	35.0	51.0	88.1
-57.5°	4.3	5.9	6.6	8.3	10.6	13.3	16.9	21.9	30.3	42.7	66.7
-60°	4.3	5.9	6.5	8.1	10.3	12.9	15.9	20.5	26.1	36.9	49.3
-62.5°	4.3	5.8	6.5	7.8	9.9	12.3	15.2	19.1	24.3	30.8	42.2
-65°	4.3	5.8	6.5	7.6	9.5	11.8	14.5	17.8	22.5	27.7	34.7
-67.5°	4.3	5.8	6.5	7.3	9.1	11.2	13.6	16.7	20.5	25.3	30.5
-70°	4.3	5.7	6.5	7.0	8.6	10.5	12.8	15.7	19.1	22.8	27.5
-72.5°	4.3	5.7	6.5	6.9	8.1	9.8	11.8	14.5	17.6	21.0	24.6
-75°	4.3	5.7	6.5	6.9	7.6	9.1	10.8	13.2	16.0	19.0	22.3
-77.5°	4.3	5.6	6.5	6.8	7.4	8.4	9.8	12.0	14.4	17.0	19.8
-80°	4.3	5.6	6.5	6.8	7.2	7.9	8.8	10.6	12.7	14.9	17.2
-82.5°	4.3	5.5	6.5	6.7	7.1	7.6	8.2	9.4	10.9	12.7	14.6
-85°	4.3	5.5	6.5	6.6	6.9	7.2	7.6	8.5	9.5	10.6	12.0
-87.5°	4.3	5.4	6.5	6.6	6.7	6.9	7.1	7.5	8.0	8.6	9.2
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3



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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°	7.1	7.6	8.2	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
87.5°	3.8	3.3	2.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
85°	3.8	3.3	2.9	2.5	2.5	2.5	2.4	2.2	2.2	2.2	2.2
82.5°	4.0	3.8	3.7	3.7	3.5	3.2	2.8	2.5	2.5	2.5	2.4
80°	4.2	4.3	4.3	4.3	4.1	3.9	3.8	3.9	3.8	3.5	3.2
77.5°	4.3	4.3	4.3	4.3	4.3	4.5	4.8	5.4	5.4	5.2	4.9
75°	4.3	4.3	4.4	4.4	4.5	5.0	5.8	6.3	6.3	6.1	6.1
72.5°	4.7	4.9	4.9	4.6	5.0	5.7	6.2	6.5	7.8	9.5	10.7
70°	5.5	5.6	5.5	5.6	6.1	7.0	9.3	12.3	15.3	17.5	20.4
67.5°	6.4	6.1	6.2	6.7	8.3	10.8	14.2	21.8	30.3	33.6	35.3
65°	6.5	6.4	7.0	8.4	10.6	17.0	25.4	35.3	45.7	48.0	47.8
62.5°	6.5	6.8	7.9	11.2	17.3	25.3	36.2	47.3	58.2	56.4	49.8
60°	6.7	7.0	10.9	17.3	24.6	35.3	47.2	53.1	56.6	56.2	48.4
57.5°	7.0	9.5	16.1	24.2	34.6	43.8	47.7	51.1	53.2	54.9	45.5
55°	8.7	13.9	22.2	33.0	41.4	43.2	45.4	46.7	48.5	45.0	34.8
52.5°	12.7	18.8	29.7	39.3	42.9	42.5	40.4	40.6	37.5	32.8	27.7
50°	16.4	25.9	36.3	42.2	44.0	40.7	35.0	33.2	30.0	26.2	22.7
47.5°	22.0	32.8	40.2	45.2	44.1	39.5	32.8	28.7	25.5	24.5	21.1
45°	28.1	37.7	44.8	46.8	44.5	38.6	33.2	25.9	27.5	27.2	26.9
42.5°	33.9	41.7	47.7	49.4	44.5	40.6	35.8	34.1	33.9	38.2	41.1
40°	37.7	45.6	51.2	51.6	46.3	45.3	48.6	50.7	48.7	56.0	62.2
37.5°	41.1	49.5	56.4	59.0	52.3	57.7	65.8	88.6	90.7	77.7	99.5
35°	44.3	54.2	67.1	77.1	76.8	77.3	112.2	146.9	163.0	142.7	161.7
32.5°	48.3	59.6	81.7	108.0	129.8	133.3	171.2	241.6	274.7	276.1	273.5
30°	53.9	73.5	104.6	148.0	203.0	256.3	285.2	362.6	415.8	506.8	575.7
27.5°	61.8	91.4	143.2	215.4	302.3	408.1	472.6	517.4	648.4	818.6	1001.9
25°	70.9	127.6	187.7	302.0	449.5	584.0	666.2	720.0	948.9	1286.4	1522.5
22.5°	90.5	174.2	252.8	400.4	615.8	767.0	853.8	1027.3	1382.2	1835.3	2114.8
20°	124.5	231.2	329.2	490.0	785.9	954.4	1036.4	1380.8	1928.7	2393.3	2778.3
17.5°	163.8	288.6	405.0	595.1	881.5	1098.5	1238.1	1759.3	2510.8	2928.1	3369.1
15°	206.9	346.0	472.5	688.5	973.6	1183.8	1485.8	2215.6	3043.3	3441.8	3896.7
12.5°	252.6	402.7	532.3	770.4	1064.4	1262.7	1707.6	2541.0	3318.2	3857.7	4447.9
10°	299.2	458.0	585.0	841.0	1151.9	1335.2	1915.8	2812.2	3463.5	3970.9	4659.8
7.5°	328.0	496.1	628.2	900.8	1234.3	1401.5	2106.0	3031.2	3566.7	4038.0	4688.6
5°	349.0	514.4	649.5	941.5	1291.8	1454.2	2261.2	3200.1	3633.7	4064.7	4637.3
2.5°	364.4	528.7	667.4	972.0	1327.1	1490.4	2334.1	3265.0	3678.1	4097.5	4644.9
0°	374.4	538.9	681.8	993.4	1350.5	1521.5	2372.1	3287.6	3705.3	4125.2	4722.6
-2.5°	387.7	553.7	704.5	1015.2	1356.4	1528.4	2377.7	3278.8	3721.0	4191.6	4806.6
-5°	396.5	564.4	722.7	1027.4	1352.1	1529.3	2347.8	3232.0	3698.4	4175.3	4774.2
-7.5°	401.6	570.9	735.7	1028.5	1329.0	1506.2	2245.9	3084.7	3571.5	4019.0	4607.6
-10°	405.9	580.2	748.0	1011.0	1284.3	1465.9	2102.2	2909.9	3430.6	3842.7	4395.5
-12.5°	419.5	592.7	757.1	989.9	1238.4	1420.4	1926.4	2712.9	3278.6	3649.1	4166.8
-15°	429.1	602.8	762.5	966.8	1193.9	1370.2	1719.9	2498.1	3162.7	3578.9	4022.8
-17.5°	434.7	611.0	764.4	943.4	1153.4	1315.5	1492.8	2298.8	3070.5	3540.9	3950.7
-20°	436.4	617.5	763.1	921.3	1117.7	1282.9	1442.4	2057.0	2844.9	3480.4	3887.0



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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°	434.3	622.9	761.1	911.2	1094.6	1268.3	1423.2	1789.7	2547.1	3393.0	3805.5
-25°	432.9	615.5	760.8	896.9	1068.6	1250.5	1403.2	1539.8	2212.2	3056.9	3696.0
-27.5°	430.2	604.1	745.5	874.4	1036.1	1225.7	1379.7	1514.4	1903.6	2675.0	3524.0
-30°	420.5	573.3	724.5	846.2	1003.3	1183.7	1353.1	1495.8	1641.4	2285.3	3077.2
-32.5°	398.8	539.7	689.9	818.8	962.4	1135.1	1315.3	1463.1	1610.9	1847.2	2598.2
-35°	375.8	508.0	649.5	784.7	913.0	1079.1	1251.3	1419.3	1566.3	1720.9	2087.4
-37.5°	358.0	473.2	607.3	742.1	869.5	1015.4	1180.3	1350.2	1508.6	1668.2	1848.6
-40°	336.5	435.5	565.3	694.4	821.6	953.4	1105.5	1266.1	1432.0	1615.7	1785.0
-42.5°	310.8	407.4	521.0	645.3	768.6	895.1	1026.4	1178.5	1352.1	1546.3	1725.3
-45°	278.7	375.3	475.7	592.2	711.3	831.8	956.6	1088.3	1262.3	1447.8	1638.2
-47.5°	242.7	338.0	434.9	534.5	648.9	765.0	881.7	1014.7	1161.7	1334.4	1519.4
-50°	205.4	293.6	388.3	480.3	581.3	692.7	805.3	933.5	1072.0	1215.9	1377.9
-52.5°	171.3	245.1	333.5	424.8	515.5	614.3	724.2	843.8	972.1	1108.9	1242.3
-55°	134.2	200.2	273.6	360.6	450.1	538.2	632.7	742.3	860.3	985.3	1110.1
-57.5°	104.3	153.8	216.9	289.6	374.3	462.0	545.9	633.4	736.8	848.8	958.0
-60°	78.2	113.6	161.4	222.9	291.0	372.0	455.6	536.6	618.6	701.3	797.8
-62.5°	54.3	81.8	114.9	157.4	215.8	279.1	352.4	429.5	507.7	578.9	649.4
-65°	45.6	54.8	77.6	108.7	141.6	195.0	253.7	315.3	383.9	445.4	508.8
-67.5°	36.4	44.9	53.2	65.5	93.8	124.7	158.0	210.0	263.5	307.8	353.1
-70°	31.8	35.6	42.3	49.6	56.7	69.3	96.4	125.3	154.2	183.0	220.1
-72.5°	28.0	31.2	34.5	38.2	44.0	50.0	56.1	62.2	78.4	100.4	120.7
-75°	24.6	26.7	29.4	32.3	35.3	38.0	41.0	46.0	51.1	56.2	61.2
-77.5°	21.5	23.1	24.8	26.7	28.8	31.2	33.5	35.8	37.8	39.9	42.0
-80°	18.5	19.5	20.6	21.9	23.4	24.9	26.6	28.3	29.7	31.0	32.4
-82.5°	15.5	16.2	17.0	17.7	18.3	19.0	19.7	20.8	21.8	22.7	23.6
-85°	12.5	13.0	13.5	14.0	14.4	14.9	15.3	15.7	16.1	16.5	16.8
-87.5°	9.8	10.3	10.8	11.2	11.3	11.5	11.6	11.7	11.9	12.0	12.1
-90°	3.8	3.3	2.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	8.7	9.2	9.8	10.3	10.8	10.8	10.8	10.8	10.8	10.8	10.8
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.7	1.1
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
80°	2.9	2.8	2.7	2.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	4.6	4.4	4.1	3.8	3.4	3.2	3.0	2.7	2.3	2.2	2.2
75°	6.3	6.4	6.4	6.2	5.5	5.1	4.7	4.4	4.0	4.0	4.1
72.5°	11.5	11.4	11.0	10.9	10.2	9.9	10.0	9.8	9.5	9.7	10.1
70°	22.1	22.7	22.3	20.9	18.6	16.8	15.9	14.6	13.1	12.9	13.6
67.5°	34.8	33.3	31.3	28.7	24.8	21.5	19.9	18.3	16.8	16.4	16.8
65°	44.4	37.7	33.0	29.3	26.2	23.1	21.0	18.9	16.9	15.7	15.5
62.5°	42.8	35.2	30.1	26.6	23.7	21.2	18.6	16.2	13.7	12.2	12.3
60°	40.2	31.7	25.1	21.9	19.3	17.4	15.2	13.2	11.7	10.8	11.0
57.5°	34.2	25.0	19.2	17.7	15.9	13.9	12.4	11.6	11.1	10.8	10.8
55°	26.4	21.2	17.6	15.7	13.9	12.0	10.9	11.2	11.1	10.8	11.3
52.5°	21.8	18.7	16.3	14.5	13.6	13.1	12.8	12.8	13.1	13.4	13.8
50°	19.5	17.4	16.3	15.0	14.9	15.0	15.0	15.7	16.3	16.5	16.3
47.5°	19.7	18.8	19.8	17.2	17.7	19.3	19.4	19.6	20.9	21.4	21.2
45°	24.8	29.9	30.0	27.6	26.2	31.9	32.3	29.3	44.9	44.0	33.3
42.5°	44.2	47.1	47.3	49.9	55.4	72.8	105.0	134.1	138.6	121.8	83.6
40°	71.3	68.9	74.3	89.2	132.3	171.6	201.3	290.2	289.4	226.5	228.1
37.5°	116.1	113.5	121.8	167.0	180.9	156.4	220.3	226.4	193.9	231.1	234.4
35°	200.0	226.7	197.6	245.3	247.7	221.5	237.7	265.3	226.2	270.7	290.0
32.5°	364.5	411.7	416.2	412.5	437.1	461.1	447.0	514.0	526.0	570.5	619.4
30°	592.2	683.1	752.5	739.1	779.9	851.4	874.8	977.2	1079.2	1142.5	1297.4
27.5°	1032.0	1077.9	1220.2	1320.3	1297.1	1414.0	1646.0	1717.8	2010.4	2150.5	2352.3
25°	1634.2	1715.6	1918.4	2156.2	2258.0	2453.9	2830.7	3011.0	3395.3	3591.6	4331.3
22.5°	2380.3	2656.0	2910.4	3229.9	3688.5	4077.8	4496.7	5200.8	6344.8	7988.4	9950.5
20°	3232.1	3694.2	4078.9	4669.2	5429.2	6161.7	7245.2	10369.6	13687.9	20609.3	25311.8
17.5°	4037.9	4771.5	5309.1	6093.0	7215.6	9048.9	12781.7	19765.4	30741.1	44149.0	56947.8
15°	4666.8	5416.6	6413.1	7596.2	9310.9	12898.6	19717.0	33520.8	54447.0	74877.6	96374.2
12.5°	5198.2	5991.2	7083.4	8686.1	11250.8	17699.4	29958.8	50752.7	78338.5	108753.4	140889.6
10°	5540.3	6503.2	7811.1	9927.9	14189.8	23351.5	39289.3	67153.4	104233.4	143943.1	179661.6
7.5°	5600.4	6775.4	8432.2	11007.0	17106.0	29247.7	50387.0	83165.8	123776.0	168500.4	213485.2
5°	5624.4	7028.9	8957.1	11854.7	19109.3	33512.7	56780.0	93424.3	138516.4	184449.1	232863.4
2.5°	5688.6	7277.8	9342.4	12447.8	20265.0	36055.9	60474.5	100772.7	148344.6	198221.9	252201.0
0°	5822.1	7538.4	9425.7	12548.8	20507.1	36109.8	62605.6	104983.4	154754.5	205146.8	261449.9
-2.5°	5894.5	7505.0	9355.4	12342.7	20194.9	36115.5	60557.5	102053.8	151412.0	200578.6	257316.0
-5°	5770.2	7169.8	8922.6	11720.5	18828.7	33227.3	56489.0	94489.5	140046.9	184253.2	229877.7
-7.5°	5503.3	6698.3	8307.4	10837.2	16710.2	28750.6	49135.1	80338.6	119024.1	157455.1	193000.4
-10°	5192.5	6198.5	7518.2	9554.7	13716.5	22732.9	38445.7	62997.4	96226.2	129217.6	159214.6
-12.5°	4857.1	5640.5	6617.6	8026.2	10617.1	17164.7	29136.9	47954.5	70931.1	95819.2	123065.8
-15°	4570.5	5148.0	5888.7	7088.3	9064.6	12787.5	19558.2	32080.6	48556.5	68067.6	88152.4
-17.5°	4377.8	4807.2	5452.3	6367.3	7582.1	9793.4	14693.8	22118.1	32719.2	47322.0	60586.9
-20°	4239.6	4643.4	5155.2	5875.7	6893.2	8452.2	10850.0	15967.1	22943.0	32407.9	41411.8



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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°	4140.9	4504.3	4936.8	5516.6	6425.2	7643.6	9174.1	11657.7	16050.8	21632.3	27892.0
-25°	4043.8	4345.2	4822.3	5445.7	6070.2	6942.0	7999.8	9219.2	11559.7	14041.2	17883.5
-27.5°	3932.8	4305.7	4838.7	5421.1	5983.8	6416.5	7167.4	8008.4	9247.7	10447.4	12421.4
-30°	3851.9	4328.8	4859.1	5418.8	5852.3	6234.8	6654.7	7297.5	8099.3	8947.3	9854.7
-32.5°	3449.4	4257.9	4802.2	5303.9	5662.5	6017.9	6390.0	6835.8	7348.5	7885.6	8436.8
-35°	2909.9	3770.9	4615.4	5008.8	5372.1	5730.6	6118.5	6479.7	6841.4	7204.7	7550.8
-37.5°	2248.6	3092.4	3890.2	4577.5	4994.7	5359.6	5773.3	6144.1	6461.2	6734.2	7000.6
-40°	1964.4	2259.0	3030.7	3754.2	4361.4	4939.8	5329.6	5740.3	6094.0	6345.8	6572.0
-42.5°	1886.2	2052.2	2223.2	2778.0	3448.5	4042.9	4571.7	5085.4	5571.7	5921.7	6190.8
-45°	1818.2	1958.7	2105.3	2268.9	2432.3	2953.5	3503.2	4056.6	4628.9	5141.3	5556.0
-47.5°	1692.6	1862.7	2007.1	2142.4	2272.4	2420.7	2573.9	2794.3	3296.5	3809.2	4276.4
-50°	1537.5	1696.9	1857.7	2017.8	2138.3	2252.1	2368.6	2500.0	2646.4	2795.8	2921.7
-52.5°	1368.5	1515.1	1663.6	1804.8	1939.6	2070.6	2198.5	2314.4	2423.5	2528.7	2590.5
-55°	1231.2	1348.6	1465.5	1586.5	1709.5	1829.3	1948.1	2068.0	2183.5	2293.8	2355.4
-57.5°	1071.1	1188.0	1300.0	1392.3	1487.6	1585.0	1686.7	1790.0	1891.3	1985.6	2038.6
-60°	897.1	998.6	1095.6	1185.2	1273.5	1359.8	1443.2	1525.1	1603.9	1672.3	1713.9
-62.5°	722.2	804.8	885.2	961.4	1035.6	1108.4	1186.3	1260.4	1329.9	1386.2	1420.9
-65°	573.1	636.0	691.9	746.8	800.9	863.2	929.6	992.4	1051.4	1097.3	1127.6
-67.5°	405.8	460.0	511.3	560.2	605.1	649.5	696.7	742.8	787.2	821.6	846.0
-70°	255.7	289.9	323.7	359.8	399.2	438.2	477.1	513.0	545.7	570.3	588.9
-72.5°	139.4	155.8	173.0	198.6	223.2	249.3	276.1	301.3	324.9	341.5	353.8
-75°	66.2	73.6	86.8	98.7	109.2	120.7	132.3	143.0	152.7	157.8	160.7
-77.5°	45.4	49.0	52.3	55.3	57.9	61.3	65.0	68.7	72.4	74.7	76.6
-80°	33.8	35.3	36.7	38.2	39.7	41.3	42.8	44.2	45.5	46.7	47.7
-82.5°	24.4	25.2	25.9	26.6	27.2	28.3	29.4	30.4	31.4	32.2	33.0
-85°	17.1	17.6	18.0	18.4	18.7	19.3	19.9	20.5	21.2	21.3	21.4
-87.5°	12.2	12.9	13.5	14.2	14.8	14.9	14.9	15.0	15.0	15.1	15.1
-90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.7	1.1



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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°	10.8	10.8	11.9	13.0	11.9	10.8	10.8	10.8	10.8	10.8	10.8
87.5°	0.6	0.0	1.1	2.2	1.1	0.0	0.6	1.1	1.7	2.2	2.2
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	2.2	2.2	3.2	4.3	3.2	2.2	2.2	2.2	2.2	2.3	2.7
75°	4.2	4.3	4.3	4.3	4.3	4.3	4.2	4.1	4.0	4.0	4.4
72.5°	10.4	10.6	10.8	10.8	10.8	10.6	10.4	10.1	9.7	9.5	9.8
70°	14.3	15.0	15.2	15.2	15.2	15.0	14.3	13.6	12.9	13.1	14.6
67.5°	17.1	17.2	17.3	17.3	17.3	17.2	17.1	16.8	16.4	16.8	18.3
65°	15.4	15.3	14.2	13.0	14.2	15.3	15.4	15.5	15.7	16.9	18.9
62.5°	12.5	13.0	13.0	13.0	13.0	13.0	12.5	12.3	12.2	13.7	16.2
60°	11.0	10.9	10.8	10.8	10.8	10.9	11.0	11.0	10.8	11.7	13.2
57.5°	10.8	10.8	11.7	13.0	11.7	10.8	10.8	10.8	10.8	11.1	11.6
55°	11.9	12.6	13.0	13.0	13.0	12.6	11.9	11.3	10.8	11.1	11.2
52.5°	13.7	13.2	13.0	13.0	13.0	13.2	13.7	13.8	13.4	13.1	12.8
50°	15.8	15.4	15.2	15.2	15.2	15.4	15.8	16.3	16.5	16.3	15.7
47.5°	20.7	19.9	19.4	19.5	19.4	19.9	20.7	21.2	21.4	20.9	19.6
45°	34.1	34.2	34.3	34.6	34.3	34.2	34.1	33.3	44.0	44.9	29.3
42.5°	80.3	69.4	60.0	60.6	60.0	69.4	80.3	83.6	121.8	138.6	134.1
40°	205.6	153.8	102.3	86.6	102.3	153.8	205.6	228.1	226.5	289.4	290.2
37.5°	211.7	216.0	254.1	342.0	254.1	216.0	211.7	234.4	231.1	193.9	226.4
35°	295.9	300.5	289.9	283.5	289.9	300.5	295.9	290.0	270.7	226.2	265.3
32.5°	629.2	657.1	653.7	636.3	653.7	657.1	629.2	619.4	570.5	526.0	514.0
30°	1355.3	1426.1	1418.5	1432.8	1418.5	1426.1	1355.3	1297.4	1142.5	1079.2	977.2
27.5°	2432.3	2519.9	2535.8	2517.1	2535.8	2519.9	2432.3	2352.3	2150.5	2010.4	1717.8
25°	4828.1	4966.7	4916.1	4850.3	4916.1	4966.7	4828.1	4331.3	3591.6	3395.3	3011.0
22.5°	12244.4	12792.7	12736.3	12274.0	12736.3	12792.7	12244.4	9950.5	7988.4	6344.8	5200.8
20°	33640.5	37260.3	38835.6	36700.7	38835.6	37260.3	33640.5	25311.8	20609.3	13687.9	10369.6
17.5°	71204.6	82233.7	90075.7	93347.9	90075.7	82233.7	71204.6	56947.8	44149.0	30741.1	19765.4
15°	116472.5	133074.7	142730.2	141433.0	142730.2	133074.7	116472.5	96374.2	74877.6	54447.0	33520.8
12.5°	167481.9	187159.4	203466.9	203812.5	203466.9	187159.4	167481.9	140889.6	108753.4	78338.5	50752.7
10°	216820.8	244131.5	266389.3	270702.4	266389.3	244131.5	216820.8	179661.6	143943.1	104233.4	67153.4
7.5°	253836.2	295703.0	323642.9	333880.6	323642.9	295703.0	253836.2	213485.2	168500.4	123776.0	83165.8
5°	290416.1	334285.9	362755.0	367805.5	362755.0	334285.9	290416.1	232863.4	184449.1	138516.4	93424.3
2.5°	315088.7	359341.6	384254.5	401534.6	384254.5	359341.6	315088.7	252201.0	198221.9	148344.6	100772.7
0°	329541.0	365597.9	406820.9	425974.2	406820.9	365597.9	329541.0	261449.9	205146.8	154754.5	104983.4
-2.5°	318614.0	359177.0	382777.9	404542.9	382777.9	359177.0	318614.0	257316.0	200578.6	151412.0	102053.8
-5°	282424.4	326538.9	347389.2	350109.9	347389.2	326538.9	282424.4	229877.7	184253.2	140046.9	94489.5
-7.5°	230774.0	271848.0	291866.5	302917.5	291866.5	271848.0	230774.0	193000.4	157455.1	119024.1	80338.6
-10°	186813.8	210784.0	224260.1	225147.5	224260.1	210784.0	186813.8	159214.6	129217.6	96226.2	62997.4
-12.5°	144230.1	160308.4	168278.7	167987.3	168278.7	160308.4	144230.1	123065.8	95819.2	70931.1	47954.5
-15°	105838.6	118329.7	125519.1	128966.4	125519.1	118329.7	105838.6	88152.4	68067.6	48556.5	32080.6
-17.5°	74704.4	84627.5	91831.4	94741.7	91831.4	84627.5	74704.4	60586.9	47322.0	32719.2	22118.1
-20°	50928.3	57729.2	62402.9	64386.9	62402.9	57729.2	50928.3	41411.8	32407.9	22943.0	15967.1



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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°	33545.9	38105.1	41309.5	41137.6	41309.5	38105.1	33545.9	27892.0	21632.3	16050.8	11657.7
-25°	21385.0	23891.8	25537.9	25671.2	25537.9	23891.8	21385.0	17883.5	14041.2	11559.7	9219.2
-27.5°	14154.0	15256.0	15920.2	16035.6	15920.2	15256.0	14154.0	12421.4	10447.4	9247.7	8008.4
-30°	10712.7	11219.8	11599.4	11583.5	11599.4	11219.8	10712.7	9854.7	8947.3	8099.3	7297.5
-32.5°	8905.9	9155.4	9321.7	9456.0	9321.7	9155.4	8905.9	8436.8	7885.6	7348.5	6835.8
-35°	7788.3	7915.3	8008.0	8092.5	8008.0	7915.3	7788.3	7550.8	7204.7	6841.4	6479.7
-37.5°	7153.9	7241.8	7300.1	7319.8	7300.1	7241.8	7153.9	7000.6	6734.2	6461.2	6144.1
-40°	6658.4	6708.0	6737.4	6754.9	6737.4	6708.0	6658.4	6572.0	6345.8	6094.0	5740.3
-42.5°	6286.6	6354.6	6389.7	6389.1	6389.7	6354.6	6286.6	6190.8	5921.7	5571.7	5085.4
-45°	5794.0	5965.9	6070.1	6114.3	6070.1	5965.9	5794.0	5556.0	5141.3	4628.9	4056.6
-47.5°	4659.4	4985.8	5214.8	5335.1	5214.8	4985.8	4659.4	4276.4	3809.2	3296.5	2794.3
-50°	3034.9	3144.0	3189.9	3170.8	3189.9	3144.0	3034.9	2921.7	2795.8	2646.4	2500.0
-52.5°	2636.4	2675.5	2699.3	2709.8	2699.3	2675.5	2636.4	2590.5	2528.7	2423.5	2314.4
-55°	2407.3	2450.9	2478.9	2493.3	2478.9	2450.9	2407.3	2355.4	2293.8	2183.5	2068.0
-57.5°	2082.7	2117.8	2139.3	2149.2	2139.3	2117.8	2082.7	2038.6	1985.6	1891.3	1790.0
-60°	1749.4	1778.1	1797.1	1807.2	1797.1	1778.1	1749.4	1713.9	1672.3	1603.9	1525.1
-62.5°	1448.8	1470.1	1488.8	1502.1	1488.8	1470.1	1448.8	1420.9	1386.2	1329.9	1260.4
-65°	1152.3	1171.2	1184.8	1192.6	1184.8	1171.2	1152.3	1127.6	1097.3	1051.4	992.4
-67.5°	866.0	881.5	894.2	902.5	894.2	881.5	866.0	846.0	821.6	787.2	742.8
-70°	603.9	615.3	626.4	634.2	626.4	615.3	603.9	588.9	570.3	545.7	513.0
-72.5°	363.6	370.8	374.1	374.4	374.1	370.8	363.6	353.8	341.5	324.9	301.3
-75°	162.3	162.7	166.1	168.8	166.1	162.7	162.3	160.7	157.8	152.7	143.0
-77.5°	78.2	79.5	81.0	82.2	81.0	79.5	78.2	76.6	74.7	72.4	68.7
-80°	48.7	49.5	49.7	49.8	49.7	49.5	48.7	47.7	46.7	45.5	44.2
-82.5°	33.7	34.4	34.6	34.6	34.6	34.4	33.7	33.0	32.2	31.4	30.4
-85°	21.5	21.6	21.6	21.6	21.6	21.6	21.5	21.4	21.3	21.2	20.5
-87.5°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.1	15.1	15.0	15.0
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.6	1.1	1.7	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	10.8	10.8	10.8	10.3	9.8	9.2	8.7	8.7	8.7	8.7	8.7
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.5	2.5	2.5
80°	2.2	2.2	2.2	2.5	2.7	2.8	2.9	3.2	3.5	3.8	3.9
77.5°	3.0	3.2	3.4	3.8	4.1	4.4	4.6	4.9	5.2	5.4	5.4
75°	4.7	5.1	5.5	6.2	6.4	6.4	6.3	6.1	6.1	6.3	6.3
72.5°	10.0	9.9	10.2	10.9	11.0	11.4	11.5	10.7	9.5	7.8	6.5
70°	15.9	16.8	18.6	20.9	22.3	22.7	22.1	20.4	17.5	15.3	12.3
67.5°	19.9	21.5	24.8	28.7	31.3	33.3	34.8	35.3	33.6	30.3	21.8
65°	21.0	23.1	26.2	29.3	33.0	37.7	44.4	47.8	48.0	45.7	35.3
62.5°	18.6	21.2	23.7	26.6	30.1	35.2	42.8	49.8	56.4	58.2	47.3
60°	15.2	17.4	19.3	21.9	25.1	31.7	40.2	48.4	56.2	56.6	53.1
57.5°	12.4	13.9	15.9	17.7	19.2	25.0	34.2	45.5	54.9	53.2	51.1
55°	10.9	12.0	13.9	15.7	17.6	21.2	26.4	34.8	45.0	48.5	46.7
52.5°	12.8	13.1	13.6	14.5	16.3	18.7	21.8	27.7	32.8	37.5	40.6
50°	15.0	15.0	14.9	15.0	16.3	17.4	19.5	22.7	26.2	30.0	33.2
47.5°	19.4	19.3	17.7	17.2	19.8	18.8	19.7	21.1	24.5	25.5	28.7
45°	32.3	31.9	26.2	27.6	30.0	29.9	24.8	26.9	27.2	27.5	25.9
42.5°	105.0	72.8	55.4	49.9	47.3	47.1	44.2	41.1	38.2	33.9	34.1
40°	201.3	171.6	132.3	89.2	74.3	68.9	71.3	62.2	56.0	48.7	50.7
37.5°	220.3	156.4	180.9	167.0	121.8	113.5	116.1	99.5	77.7	90.7	88.6
35°	237.7	221.5	247.7	245.3	197.6	226.7	200.0	161.7	142.7	163.0	146.9
32.5°	447.0	461.1	437.1	412.5	416.2	411.7	364.5	273.5	276.1	274.7	241.6
30°	874.8	851.4	779.9	739.1	752.5	683.1	592.2	575.7	506.8	415.8	362.6
27.5°	1646.0	1414.0	1297.1	1320.3	1220.2	1077.9	1032.0	1001.9	818.6	648.4	517.4
25°	2830.7	2453.9	2258.0	2156.2	1918.4	1715.6	1634.2	1522.5	1286.4	948.9	720.0
22.5°	4496.7	4077.8	3688.5	3229.9	2910.4	2656.0	2380.3	2114.8	1835.3	1382.2	1027.3
20°	7245.2	6161.7	5429.2	4669.2	4078.9	3694.2	3232.1	2778.3	2393.3	1928.7	1380.8
17.5°	12781.7	9048.9	7215.6	6093.0	5309.1	4771.5	4037.9	3369.1	2928.1	2510.8	1759.3
15°	19717.0	12898.6	9310.9	7596.2	6413.1	5416.6	4666.8	3896.7	3441.8	3043.3	2215.6
12.5°	29958.8	17699.4	11250.8	8686.1	7083.4	5991.2	5198.2	4447.9	3857.7	3318.2	2541.0
10°	39289.3	23351.5	14189.8	9927.9	7811.1	6503.2	5540.3	4659.8	3970.9	3463.5	2812.2
7.5°	50387.0	29247.7	17106.0	11007.0	8432.2	6775.4	5600.4	4688.6	4038.0	3566.7	3031.2
5°	56780.0	33512.7	19109.3	11854.7	8957.1	7028.9	5624.4	4637.3	4064.7	3633.7	3200.1
2.5°	60474.5	36055.9	20265.0	12447.8	9342.4	7277.8	5688.6	4644.9	4097.5	3678.1	3265.0
0°	62605.6	36109.8	20507.1	12548.8	9425.7	7538.4	5822.1	4722.6	4125.2	3705.3	3287.6
-2.5°	60557.5	36115.5	20194.9	12342.7	9355.4	7505.0	5894.5	4806.6	4191.6	3721.0	3278.8
-5°	56489.0	33227.3	18828.7	11720.5	8922.6	7169.8	5770.2	4774.2	4175.3	3698.4	3232.0
-7.5°	49135.1	28750.6	16710.2	10837.2	8307.4	6698.3	5503.3	4607.6	4019.0	3571.5	3084.7
-10°	38445.7	22732.9	13716.5	9554.7	7518.2	6198.5	5192.5	4395.5	3842.7	3430.6	2909.9
-12.5°	29136.9	17164.7	10617.1	8026.2	6617.6	5640.5	4857.1	4166.8	3649.1	3278.6	2712.9
-15°	19558.2	12787.5	9064.6	7088.3	5888.7	5148.0	4570.5	4022.8	3578.9	3162.7	2498.1
-17.5°	14693.8	9793.4	7582.1	6367.3	5452.3	4807.2	4377.8	3950.7	3540.9	3070.5	2298.8
-20°	10850.0	8452.2	6893.2	5875.7	5155.2	4643.4	4239.6	3887.0	3480.4	2844.9	2057.0



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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°	9174.1	7643.6	6425.2	5516.6	4936.8	4504.3	4140.9	3805.5	3393.0	2547.1	1789.7
-25°	7999.8	6942.0	6070.2	5445.7	4822.3	4345.2	4043.8	3696.0	3056.9	2212.2	1539.8
-27.5°	7167.4	6416.5	5983.8	5421.1	4838.7	4305.7	3932.8	3524.0	2675.0	1903.6	1514.4
-30°	6654.7	6234.8	5852.3	5418.8	4859.1	4328.8	3851.9	3077.2	2285.3	1641.4	1495.8
-32.5°	6390.0	6017.9	5662.5	5303.9	4802.2	4257.9	3449.4	2598.2	1847.2	1610.9	1463.1
-35°	6118.5	5730.6	5372.1	5008.8	4615.4	3770.9	2909.9	2087.4	1720.9	1566.3	1419.3
-37.5°	5773.3	5359.6	4994.7	4577.5	3890.2	3092.4	2248.6	1848.6	1668.2	1508.6	1350.2
-40°	5329.6	4939.8	4361.4	3754.2	3030.7	2259.0	1964.4	1785.0	1615.7	1432.0	1266.1
-42.5°	4571.7	4042.9	3448.5	2778.0	2223.2	2052.2	1886.2	1725.3	1546.3	1352.1	1178.5
-45°	3503.2	2953.5	2432.3	2268.9	2105.3	1958.7	1818.2	1638.2	1447.8	1262.3	1088.3
-47.5°	2573.9	2420.7	2272.4	2142.4	2007.1	1862.7	1692.6	1519.4	1334.4	1161.7	1014.7
-50°	2368.6	2252.1	2138.3	2017.8	1857.7	1696.9	1537.5	1377.9	1215.9	1072.0	933.5
-52.5°	2198.5	2070.6	1939.6	1804.8	1663.6	1515.1	1368.5	1242.3	1108.9	972.1	843.8
-55°	1948.1	1829.3	1709.5	1586.5	1465.5	1348.6	1231.2	1110.1	985.3	860.3	742.3
-57.5°	1686.7	1585.0	1487.6	1392.3	1300.0	1188.0	1071.1	958.0	848.8	736.8	633.4
-60°	1443.2	1359.8	1273.5	1185.2	1095.6	998.6	897.1	797.8	701.3	618.6	536.6
-62.5°	1186.3	1108.4	1035.6	961.4	885.2	804.8	722.2	649.4	578.9	507.7	429.5
-65°	929.6	863.2	800.9	746.8	691.9	636.0	573.1	508.8	445.4	383.9	315.3
-67.5°	696.7	649.5	605.1	560.2	511.3	460.0	405.8	353.1	307.8	263.5	210.0
-70°	477.1	438.2	399.2	359.8	323.7	289.9	255.7	220.1	183.0	154.2	125.3
-72.5°	276.1	249.3	223.2	198.6	173.0	155.8	139.4	120.7	100.4	78.4	62.2
-75°	132.3	120.7	109.2	98.7	86.8	73.6	66.2	61.2	56.2	51.1	46.0
-77.5°	65.0	61.3	57.9	55.3	52.3	49.0	45.4	42.0	39.9	37.8	35.8
-80°	42.8	41.3	39.7	38.2	36.7	35.3	33.8	32.4	31.0	29.7	28.3
-82.5°	29.4	28.3	27.2	26.6	25.9	25.2	24.4	23.6	22.7	21.8	20.8
-85°	19.9	19.3	18.7	18.4	18.0	17.6	17.1	16.8	16.5	16.1	15.7
-87.5°	14.9	14.9	14.8	14.2	13.5	12.9	12.2	12.1	12.0	11.9	11.7
-90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



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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°	8.7	8.7	8.7	8.7	8.2	7.6	7.1	6.5	6.5	6.5	6.5
87.5°	2.2	2.2	2.2	2.2	2.7	3.3	3.8	4.3	4.3	4.3	4.3
85°	2.4	2.5	2.5	2.5	2.9	3.3	3.8	4.3	4.3	4.3	4.3
82.5°	2.8	3.2	3.5	3.7	3.7	3.8	4.0	4.3	4.4	4.3	4.3
80°	3.8	3.9	4.1	4.3	4.3	4.3	4.2	4.4	4.6	4.7	4.6
77.5°	4.8	4.5	4.3	4.3	4.3	4.3	4.3	4.4	4.9	5.1	5.2
75°	5.8	5.0	4.5	4.4	4.4	4.3	4.3	4.5	5.0	5.5	5.7
72.5°	6.2	5.7	5.0	4.6	4.9	4.9	4.7	4.5	5.1	5.6	6.1
70°	9.3	7.0	6.1	5.6	5.5	5.6	5.5	5.2	5.1	5.6	6.2
67.5°	14.2	10.8	8.3	6.7	6.2	6.1	6.4	6.0	5.7	5.7	6.2
65°	25.4	17.0	10.6	8.4	7.0	6.4	6.5	6.6	6.2	6.0	6.3
62.5°	36.2	25.3	17.3	11.2	7.9	6.8	6.5	6.8	6.6	6.3	6.4
60°	47.2	35.3	24.6	17.3	10.9	7.0	6.7	7.1	7.0	6.5	6.5
57.5°	47.7	43.8	34.6	24.2	16.1	9.5	7.0	7.5	7.4	6.9	6.5
55°	45.4	43.2	41.4	33.0	22.2	13.9	8.7	7.9	8.0	7.5	6.6
52.5°	40.4	42.5	42.9	39.3	29.7	18.8	12.7	8.5	8.6	8.1	7.2
50°	35.0	40.7	44.0	42.2	36.3	25.9	16.4	11.4	9.2	8.7	7.8
47.5°	32.8	39.5	44.1	45.2	40.2	32.8	22.0	14.3	9.9	9.4	8.4
45°	33.2	38.6	44.5	46.8	44.8	37.7	28.1	16.9	12.2	10.1	9.0
42.5°	35.8	40.6	44.5	49.4	47.7	41.7	33.9	21.8	14.3	10.7	9.6
40°	48.6	45.3	46.3	51.6	51.2	45.6	37.7	26.9	16.1	11.7	10.1
37.5°	65.8	57.7	52.3	59.0	56.4	49.5	41.1	31.8	18.5	13.1	10.7
35°	112.2	77.3	76.8	77.1	67.1	54.2	44.3	35.7	22.9	14.4	11.2
32.5°	171.2	133.3	129.8	108.0	81.7	59.6	48.3	39.3	27.3	15.6	11.7
30°	285.2	256.3	203.0	148.0	104.6	73.5	53.9	42.9	31.7	16.7	12.3
27.5°	472.6	408.1	302.3	215.4	143.2	91.4	61.8	46.7	36.1	18.6	13.2
25°	666.2	584.0	449.5	302.0	187.7	127.6	70.9	50.7	39.6	22.1	14.0
22.5°	853.8	767.0	615.8	400.4	252.8	174.2	90.5	57.8	42.6	25.4	14.7
20°	1036.4	954.4	785.9	490.0	329.2	231.2	124.5	65.4	45.7	28.5	15.3
17.5°	1238.1	1098.5	881.5	595.1	405.0	288.6	163.8	73.4	48.7	31.4	15.8
15°	1485.8	1183.8	973.6	688.5	472.5	346.0	206.9	81.6	51.6	34.2	16.5
12.5°	1707.6	1262.7	1064.4	770.4	532.3	402.7	252.6	89.8	54.4	37.3	17.4
10°	1915.8	1335.2	1151.9	841.0	585.0	458.0	299.2	99.0	58.8	40.8	18.3
7.5°	2106.0	1401.5	1234.3	900.8	628.2	496.1	328.0	110.4	63.4	44.1	19.2
5°	2261.2	1454.2	1291.8	941.5	649.5	514.4	349.0	121.3	67.8	47.1	20.1
2.5°	2334.1	1490.4	1327.1	972.0	667.4	528.7	364.4	131.5	72.0	49.7	20.9
0°	2372.1	1521.5	1350.5	993.4	681.8	538.9	374.4	140.7	75.8	51.9	21.6
-2.5°	2377.7	1528.4	1356.4	1015.2	704.5	553.7	387.7	165.7	95.2	63.8	28.4
-5°	2347.8	1529.3	1352.1	1027.4	722.7	564.4	396.5	189.2	113.9	75.0	34.8
-7.5°	2245.9	1506.2	1329.0	1028.5	735.7	570.9	401.6	210.7	131.4	85.3	40.9
-10°	2102.2	1465.9	1284.3	1011.0	748.0	580.2	405.9	230.1	147.4	94.4	46.4
-12.5°	1926.4	1420.4	1238.4	989.9	757.1	592.7	419.5	249.7	161.6	102.1	51.1
-15°	1719.9	1370.2	1193.9	966.8	762.5	602.8	429.1	267.0	174.5	109.0	54.9
-17.5°	1492.8	1315.5	1153.4	943.4	764.4	611.0	434.7	280.2	185.4	115.0	58.5
-20°	1442.4	1282.9	1117.7	921.3	763.1	617.5	436.4	289.0	193.9	119.1	61.6



REPORT NUMBER: P731698 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-3S-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1423.2	1268.3	1094.6	911.2	761.1	622.9	434.3	293.0	199.9	121.0	63.3
-25°	1403.2	1250.5	1068.6	896.9	760.8	615.5	432.9	291.8	203.2	120.7	63.6
-27.5°	1379.7	1225.7	1036.1	874.4	745.5	604.1	430.2	294.6	203.4	117.9	62.4
-30°	1353.1	1183.7	1003.3	846.2	724.5	573.3	420.5	294.0	199.8	115.3	59.6
-32.5°	1315.3	1135.1	962.4	818.8	689.9	539.7	398.8	289.8	192.8	111.9	57.6
-35°	1251.3	1079.1	913.0	784.7	649.5	508.0	375.8	281.8	182.5	106.2	55.1
-37.5°	1180.3	1015.4	869.5	742.1	607.3	473.2	358.0	263.8	168.8	98.1	51.3
-40°	1105.5	953.4	821.6	694.4	565.3	435.5	336.5	241.5	156.0	87.6	46.2
-42.5°	1026.4	895.1	768.6	645.3	521.0	407.4	310.8	215.9	139.6	78.7	39.7
-45°	956.6	831.8	711.3	592.2	475.7	375.3	278.7	188.1	120.4	69.7	34.5
-47.5°	881.7	765.0	648.9	534.5	434.9	338.0	242.7	163.7	99.2	59.0	32.2
-50°	805.3	692.7	581.3	480.3	388.3	293.6	205.4	136.6	84.4	46.2	29.5
-52.5°	724.2	614.3	515.5	424.8	333.5	245.1	171.3	108.0	68.3	39.3	26.3
-55°	632.7	538.2	450.1	360.6	273.6	200.2	134.2	88.1	51.0	35.0	23.1
-57.5°	545.9	462.0	374.3	289.6	216.9	153.8	104.3	66.7	42.7	30.3	21.9
-60°	455.6	372.0	291.0	222.9	161.4	113.6	78.2	49.3	36.9	26.1	20.5
-62.5°	352.4	279.1	215.8	157.4	114.9	81.8	54.3	42.2	30.8	24.3	19.1
-65°	253.7	195.0	141.6	108.7	77.6	54.8	45.6	34.7	27.7	22.5	17.8
-67.5°	158.0	124.7	93.8	65.5	53.2	44.9	36.4	30.5	25.3	20.5	16.7
-70°	96.4	69.3	56.7	49.6	42.3	35.6	31.8	27.5	22.8	19.1	15.7
-72.5°	56.1	50.0	44.0	38.2	34.5	31.2	28.0	24.6	21.0	17.6	14.5
-75°	41.0	38.0	35.3	32.3	29.4	26.7	24.6	22.3	19.0	16.0	13.2
-77.5°	33.5	31.2	28.8	26.7	24.8	23.1	21.5	19.8	17.0	14.4	12.0
-80°	26.6	24.9	23.4	21.9	20.6	19.5	18.5	17.2	14.9	12.7	10.6
-82.5°	19.7	19.0	18.3	17.7	17.0	16.2	15.5	14.6	12.7	10.9	9.4
-85°	15.3	14.9	14.4	14.0	13.5	13.0	12.5	12.0	10.6	9.5	8.5
-87.5°	11.6	11.5	11.3	11.2	10.8	10.3	9.8	9.2	8.6	8.0	7.5
-90°	2.2	2.2	2.2	2.2	2.7	3.3	3.8	4.3	4.3	4.3	4.3



REPORT NUMBER: P731698 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.5	6.5	6.5	6.5	6.5	5.4	4.3
87.5°	4.3	4.4	4.5	4.5	4.5	4.4	4.3
85°	4.3	4.5	4.7	4.7	4.7	4.5	4.3
82.5°	4.3	4.7	4.9	4.9	4.9	4.6	4.3
80°	4.4	4.8	5.1	5.2	5.1	4.7	4.3
77.5°	5.0	5.0	5.3	5.4	5.3	4.8	4.3
75°	5.5	5.4	5.5	5.6	5.4	4.9	4.3
72.5°	6.1	5.7	5.7	5.9	5.6	5.0	4.3
70°	6.5	6.1	5.9	6.1	5.8	5.1	4.3
67.5°	6.5	6.4	6.1	6.1	6.0	5.1	4.3
65°	6.5	6.5	6.2	6.2	6.2	5.2	4.3
62.5°	6.5	6.5	6.4	6.3	6.3	5.3	4.3
60°	6.5	6.5	6.5	6.3	6.5	5.4	4.3
57.5°	6.6	6.5	6.5	6.4	6.5	5.5	4.3
55°	6.7	6.5	6.5	6.4	6.5	5.6	4.3
52.5°	6.9	6.5	6.5	6.5	6.5	5.6	4.3
50°	7.1	6.7	6.5	6.5	6.5	5.7	4.3
47.5°	7.4	7.0	6.5	6.5	6.5	5.8	4.3
45°	7.9	7.2	6.5	6.5	6.5	5.9	4.3
42.5°	8.4	7.5	6.5	6.5	6.5	5.9	4.3
40°	8.9	7.7	6.6	6.5	6.5	6.0	4.3
37.5°	9.3	8.0	6.8	6.5	6.5	6.0	4.3
35°	9.8	8.4	7.1	6.5	6.5	6.1	4.3
32.5°	10.2	8.7	7.3	6.5	6.5	6.2	4.3
30°	10.6	9.1	7.5	6.5	6.5	6.2	4.3
27.5°	11.0	9.4	7.7	6.5	6.5	6.3	4.3
25°	11.4	9.7	7.9	6.5	6.5	6.3	4.3
22.5°	11.8	10.0	8.0	6.5	6.5	6.3	4.3
20°	12.1	10.2	8.2	6.5	6.5	6.4	4.3
17.5°	12.5	10.3	8.3	6.5	6.5	6.4	4.3
15°	12.9	10.4	8.4	6.5	6.5	6.4	4.3
12.5°	13.3	10.5	8.5	6.5	6.5	6.4	4.3
10°	13.7	10.6	8.6	6.5	6.5	6.5	4.3
7.5°	14.1	10.7	8.6	6.5	6.5	6.5	4.3
5°	14.5	10.8	8.7	6.5	6.5	6.5	4.3
2.5°	14.9	10.8	8.7	6.5	6.5	6.5	4.3
0°	15.2	10.8	8.7	6.5	6.5	6.5	4.3
-2.5°	17.8	11.8	9.1	6.8	6.6	6.5	4.3
-5°	20.2	12.7	9.4	7.1	6.7	6.5	4.3
-7.5°	22.5	13.5	9.8	7.3	6.8	6.5	4.3
-10°	24.6	14.3	10.1	7.6	6.9	6.5	4.3
-12.5°	26.4	15.0	10.4	7.9	7.0	6.5	4.3
-15°	27.9	15.7	10.6	8.1	7.0	6.4	4.3
-17.5°	29.0	16.2	10.9	8.3	7.1	6.4	4.3
-20°	30.1	16.5	11.1	8.5	7.2	6.4	4.3



REPORT NUMBER: P731698 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-70-3S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	31.1	16.8	11.3	8.7	7.2	6.4	4.3
-25°	31.4	17.0	11.5	8.9	7.3	6.3	4.3
-27.5°	30.9	17.1	11.7	9.0	7.3	6.3	4.3
-30°	29.7	17.0	11.8	9.1	7.3	6.3	4.3
-32.5°	27.6	16.7	11.9	9.2	7.3	6.2	4.3
-35°	26.5	16.2	12.0	9.2	7.3	6.2	4.3
-37.5°	25.8	15.7	12.0	9.2	7.3	6.2	4.3
-40°	24.8	15.7	11.9	9.2	7.3	6.2	4.3
-42.5°	23.6	15.6	11.8	9.2	7.2	6.1	4.3
-45°	22.0	15.4	11.7	9.1	7.1	6.1	4.3
-47.5°	20.0	15.1	11.6	9.0	7.1	6.0	4.3
-50°	19.3	14.6	11.4	8.8	7.0	6.0	4.3
-52.5°	18.6	14.2	11.1	8.7	6.9	6.0	4.3
-55°	17.8	13.8	10.9	8.5	6.8	5.9	4.3
-57.5°	16.9	13.3	10.6	8.3	6.6	5.9	4.3
-60°	15.9	12.9	10.3	8.1	6.5	5.9	4.3
-62.5°	15.2	12.3	9.9	7.8	6.5	5.8	4.3
-65°	14.5	11.8	9.5	7.6	6.5	5.8	4.3
-67.5°	13.6	11.2	9.1	7.3	6.5	5.8	4.3
-70°	12.8	10.5	8.6	7.0	6.5	5.7	4.3
-72.5°	11.8	9.8	8.1	6.9	6.5	5.7	4.3
-75°	10.8	9.1	7.6	6.9	6.5	5.7	4.3
-77.5°	9.8	8.4	7.4	6.8	6.5	5.6	4.3
-80°	8.8	7.9	7.2	6.8	6.5	5.6	4.3
-82.5°	8.2	7.6	7.1	6.7	6.5	5.5	4.3
-85°	7.6	7.2	6.9	6.6	6.5	5.5	4.3
-87.5°	7.1	6.9	6.7	6.6	6.5	5.4	4.3
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3

(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

