

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: P701611 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-70-3S-CV1-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701611 (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: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-40-70-3S-CV1-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

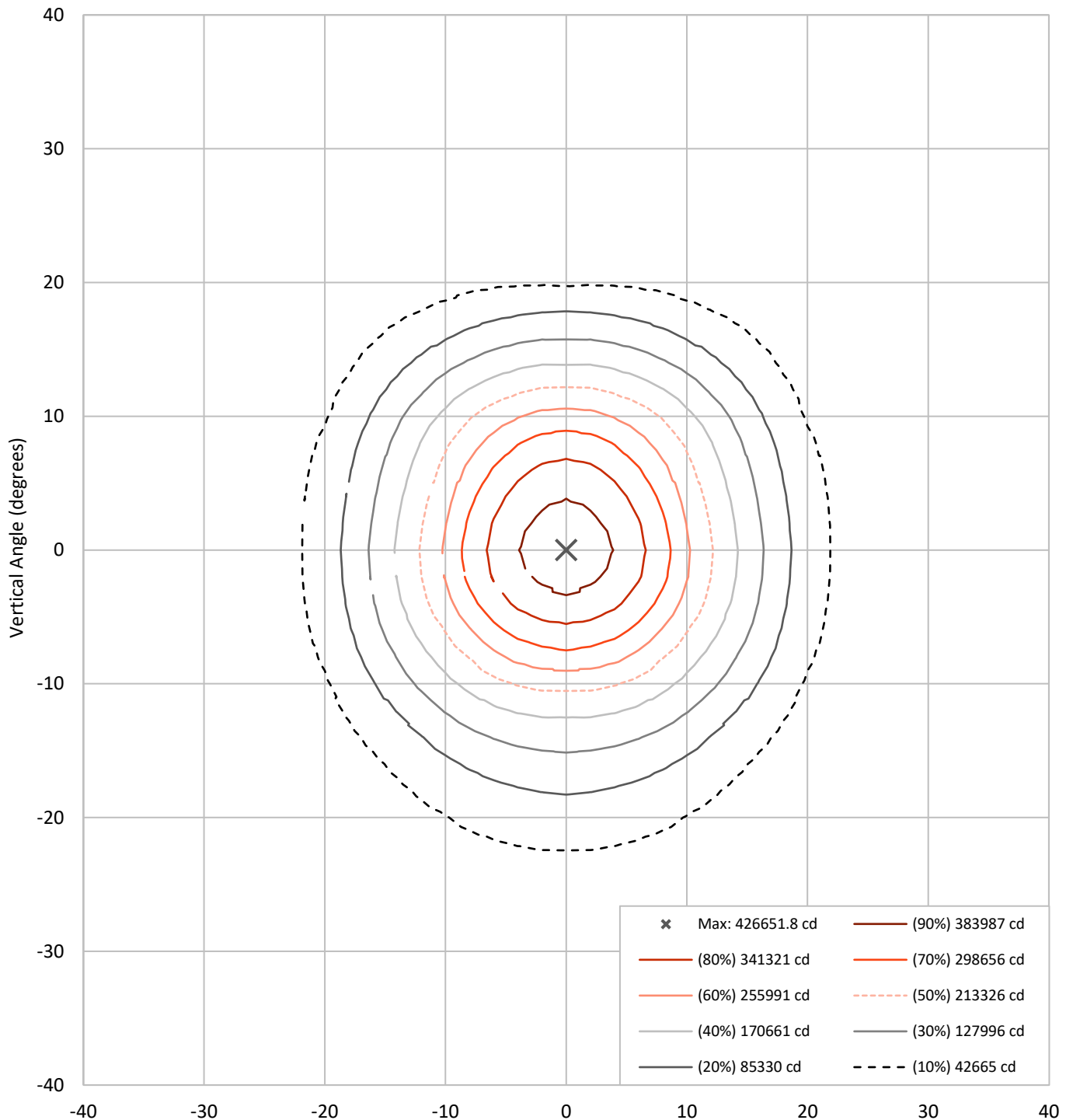
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	88427 lumens	Max Intensity:	426651.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	126.8 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:	41697.5 lumens	Field Lumens:	75328.3 lumens
Beam Efficiency:	47.2%	Field Efficiency:	85.2%

Input Watts (W): 697.5  
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-08-0680R-40-70-3S-CV1-S

### Iso-Candela Plot





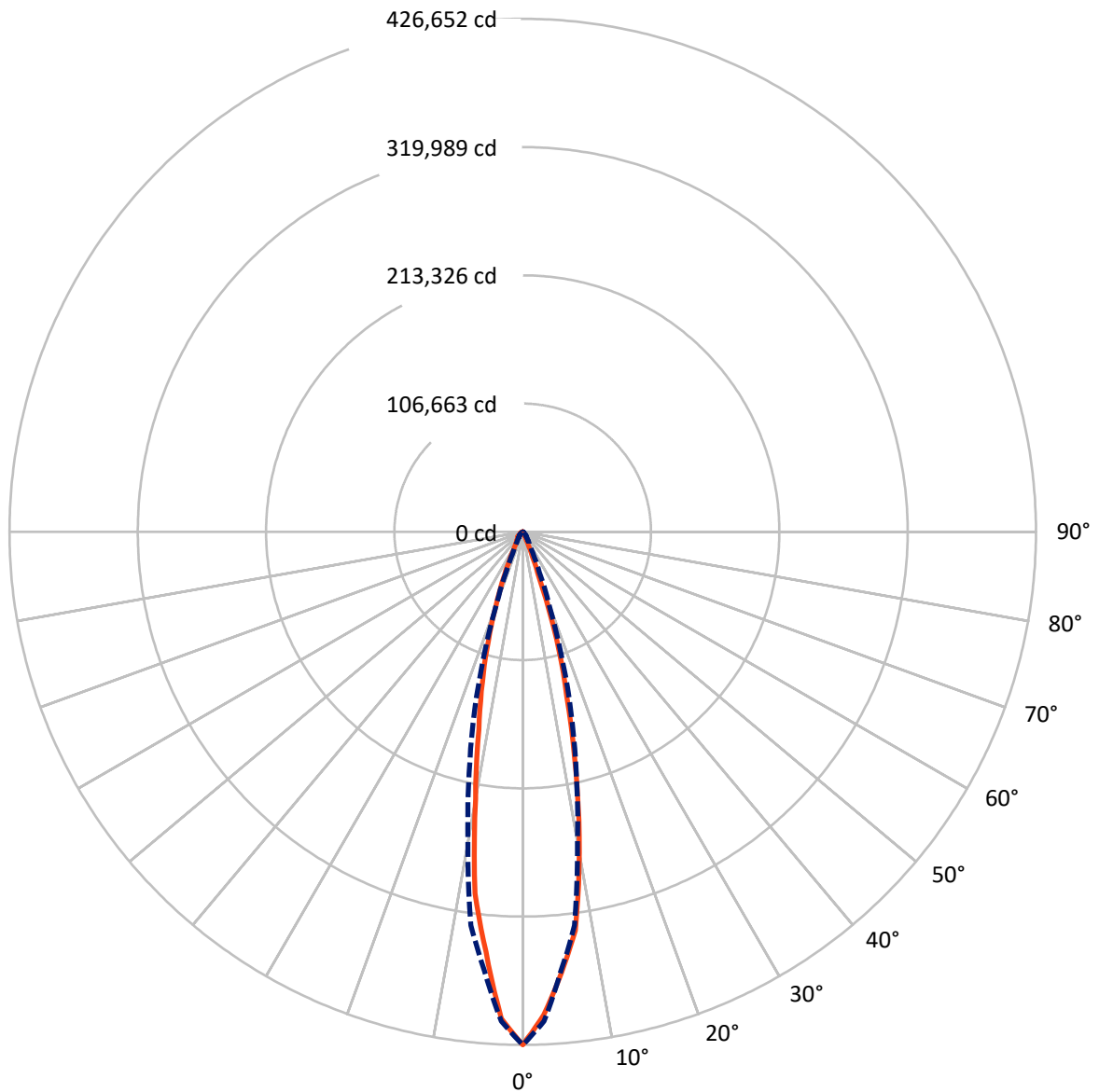
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### Lumen Table

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	43.6	72.6	149.2	287.1	287.1	149.2	72.6	43.6	18.8	6.0	0.8	0.3		
20		1.8	12.9	48.0	116.3	307.8	1694.7	3999.3	3999.3	1694.7	307.8	116.3	48.0	12.9	1.8			
10	0.4	2.8	17.1	63.9	149.6	656.4	4062.7	9527.8	9527.8	4062.7	656.4	149.6	63.9	17.1	2.8	0.4		
0		3.5	18.3	65.0	149.9	650.0	3991.7	9130.6	9130.6	3991.7	650.0	149.9	65.0	18.3	3.5			
-10	0.8	4.1	17.4	53.9	117.9	310.3	1618.4	3652.6	3652.6	1618.4	310.3	117.9	53.9	17.4	4.1	0.8		
-20		4.3	16.1	40.4	100.4	175.9	402.7	823.2	823.2	402.7	175.9	100.4	40.4	16.1	4.3			
-30	0.6	3.8	13.9	30.6	74.1	145.4	204.3	250.9	250.9	204.3	145.4	74.1	30.6	13.9	3.8	0.6		
-40		2.7	10.5	24.1	45.0	79.9	130.8	167.4	167.4	130.8	79.9	45.0	24.1	10.5	2.7			
-50	0.3	1.4	6.4	16.2	30.7	47.3	63.3	73.3	73.3	63.3	47.3	30.7	16.2	6.4	1.4	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	15.8	11.6	4.5	1.3	0.2	0.2								
-80		1.3	4.5	11.6	15.8	11.6	4.5	1.3										
-90	0.2		1.3		4.5		11.6		15.8		11.6		4.5		1.3		0.2	

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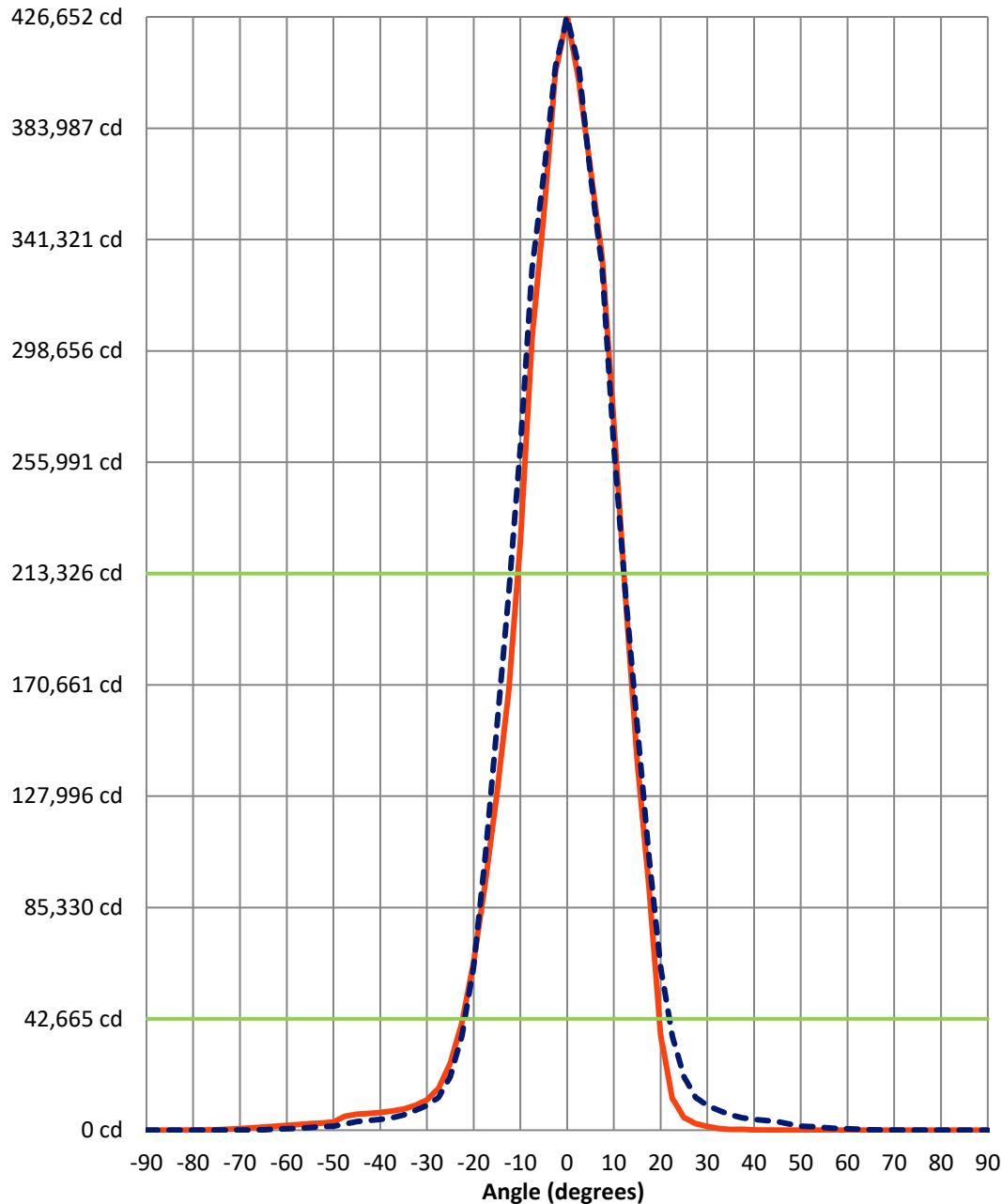
### Luminous Intensity Polar Plot



— 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: 41697.5  
Efficiency: 47.2%

**Field:**  
H Angle: 43.8°  
V Angle: 42.1°  
Lumens: 75328.3  
Efficiency: 85.2%

**Spill:**  
Lumens: 13098.7  
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	21.9
40°	4.3	6.0	6.5	6.5	6.6	7.7	8.9	10.1	11.7	16.1	27.0
37.5°	4.3	6.0	6.5	6.5	6.8	8.0	9.3	10.7	13.1	18.6	31.8
35°	4.3	6.1	6.5	6.5	7.1	8.4	9.8	11.2	14.4	23.0	35.8
32.5°	4.3	6.2	6.5	6.5	7.3	8.7	10.2	11.7	15.6	27.4	39.3
30°	4.3	6.2	6.5	6.5	7.5	9.1	10.6	12.3	16.7	31.8	43.0
27.5°	4.3	6.3	6.5	6.5	7.7	9.4	11.0	13.2	18.6	36.1	46.8
25°	4.3	6.3	6.5	6.5	7.9	9.7	11.4	14.0	22.1	39.7	50.7
22.5°	4.3	6.3	6.5	6.5	8.0	10.0	11.8	14.7	25.4	42.7	57.9
20°	4.3	6.4	6.5	6.5	8.2	10.2	12.1	15.3	28.5	45.8	65.5
17.5°	4.3	6.4	6.5	6.5	8.3	10.3	12.5	15.8	31.5	48.8	73.5
15°	4.3	6.4	6.5	6.5	8.4	10.4	12.9	16.5	34.2	51.7	81.7
12.5°	4.3	6.4	6.5	6.5	8.5	10.5	13.3	17.4	37.4	54.5	90.0
10°	4.3	6.5	6.5	6.5	8.6	10.6	13.7	18.4	40.9	58.9	99.2
7.5°	4.3	6.5	6.5	6.5	8.6	10.7	14.1	19.3	44.2	63.5	110.6
5°	4.3	6.5	6.5	6.5	8.7	10.8	14.5	20.2	47.2	67.9	121.5
2.5°	4.3	6.5	6.5	6.5	8.7	10.8	14.9	21.0	49.8	72.1	131.7
0°	4.3	6.5	6.5	6.5	8.7	10.8	15.2	21.7	52.0	75.9	140.9
-2.5°	4.3	6.5	6.6	6.8	9.1	11.8	17.8	28.5	63.9	95.4	166.0
-5°	4.3	6.5	6.7	7.1	9.4	12.7	20.2	34.9	75.2	114.1	189.4
-7.5°	4.3	6.5	6.8	7.3	9.8	13.5	22.6	41.0	85.5	131.6	211.0
-10°	4.3	6.5	6.9	7.6	10.1	14.3	24.6	46.5	94.6	147.6	230.5
-12.5°	4.3	6.5	7.0	7.9	10.4	15.0	26.5	51.2	102.3	161.9	250.1
-15°	4.3	6.4	7.0	8.1	10.6	15.7	28.0	55.0	109.2	174.8	267.4
-17.5°	4.3	6.4	7.1	8.3	10.9	16.2	29.1	58.6	115.2	185.7	280.7
-20°	4.3	6.4	7.2	8.5	11.1	16.5	30.1	61.7	119.3	194.2	289.5



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 CATALOG NUMBER: EPH-LS-08-0680R-40-70-3S-CV1-S

**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	63.5	121.2	200.2	293.5
-25°	4.3	6.3	7.3	8.9	11.5	17.0	31.4	63.8	120.9	203.6	292.3
-27.5°	4.3	6.3	7.3	9.0	11.7	17.1	31.0	62.6	118.1	203.7	295.0
-30°	4.3	6.3	7.3	9.1	11.8	17.0	29.7	59.7	115.5	200.1	294.5
-32.5°	4.3	6.2	7.3	9.2	11.9	16.7	27.6	57.7	112.1	193.2	290.3
-35°	4.3	6.2	7.3	9.2	12.0	16.2	26.5	55.2	106.3	182.8	282.2
-37.5°	4.3	6.2	7.3	9.2	12.0	15.7	25.9	51.4	98.2	169.1	264.2
-40°	4.3	6.2	7.3	9.2	11.9	15.7	24.9	46.3	87.7	156.3	241.9
-42.5°	4.3	6.1	7.2	9.2	11.8	15.6	23.6	39.8	78.8	139.8	216.3
-45°	4.3	6.1	7.1	9.1	11.7	15.4	22.0	34.6	69.8	120.6	188.4
-47.5°	4.3	6.0	7.1	9.0	11.6	15.1	20.0	32.3	59.1	99.3	164.0
-50°	4.3	6.0	7.0	8.8	11.4	14.6	19.3	29.5	46.3	84.5	136.8
-52.5°	4.3	6.0	6.9	8.7	11.1	14.2	18.6	26.4	39.4	68.4	108.2
-55°	4.3	5.9	6.8	8.5	10.9	13.8	17.8	23.1	35.0	51.1	88.2
-57.5°	4.3	5.9	6.6	8.3	10.6	13.3	16.9	21.9	30.4	42.8	66.8
-60°	4.3	5.9	6.5	8.1	10.3	12.9	15.9	20.5	26.1	37.0	49.4
-62.5°	4.3	5.8	6.5	7.8	9.9	12.3	15.2	19.1	24.3	30.8	42.3
-65°	4.3	5.8	6.5	7.6	9.5	11.8	14.5	17.8	22.5	27.7	34.8
-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	27.6
-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	30.4	33.7	35.4
65°	6.5	6.4	7.0	8.4	10.6	17.0	25.4	35.4	45.8	48.1	47.9
62.5°	6.5	6.8	7.9	11.2	17.3	25.3	36.2	47.4	58.3	56.5	49.9
60°	6.7	7.0	10.9	17.3	24.6	35.3	47.3	53.2	56.7	56.3	48.5
57.5°	7.0	9.5	16.1	24.3	34.6	43.9	47.8	51.2	53.3	55.0	45.6
55°	8.7	13.9	22.2	33.1	41.5	43.3	45.5	46.8	48.6	45.1	34.9
52.5°	12.7	18.8	29.8	39.3	43.0	42.6	40.5	40.6	37.6	32.8	27.7
50°	16.4	26.0	36.4	42.3	44.0	40.8	35.0	33.2	30.1	26.2	22.7
47.5°	22.0	32.9	40.3	45.2	44.2	39.6	32.8	28.8	25.5	24.5	21.1
45°	28.1	37.7	44.8	46.9	44.6	38.7	33.2	25.9	27.5	27.2	26.9
42.5°	34.0	41.7	47.7	49.5	44.6	40.7	35.9	34.1	33.9	38.2	41.2
40°	37.8	45.6	51.2	51.7	46.4	45.4	48.6	50.7	48.7	56.1	62.4
37.5°	41.1	49.6	56.5	59.1	52.4	57.8	65.9	88.7	90.9	77.8	99.7
35°	44.3	54.3	67.2	77.3	76.9	77.4	112.4	147.1	163.3	143.0	161.9
32.5°	48.3	59.7	81.9	108.2	130.0	133.4	171.4	242.0	275.2	276.5	273.9
30°	54.0	73.6	104.8	148.2	203.3	256.7	285.7	363.3	416.5	507.6	576.6
27.5°	61.9	91.6	143.4	215.7	302.7	408.7	473.3	518.3	649.5	819.9	1003.5
25°	71.0	127.8	187.9	302.5	450.2	584.9	667.3	721.2	950.4	1288.4	1524.9
22.5°	90.7	174.4	253.1	401.0	616.7	768.2	855.2	1029.0	1384.4	1838.2	2118.1
20°	124.8	231.5	329.7	490.8	787.1	955.9	1038.1	1383.0	1931.7	2397.0	2782.7
17.5°	164.0	289.1	405.6	596.1	882.8	1100.3	1240.1	1762.1	2514.8	2932.8	3374.5
15°	207.2	346.5	473.2	689.6	975.1	1185.7	1488.2	2219.1	3048.1	3447.2	3903.0
12.5°	252.9	403.3	533.1	771.6	1066.1	1264.7	1710.3	2545.0	3323.5	3863.9	4455.0
10°	299.6	458.7	585.9	842.3	1153.8	1337.3	1918.9	2816.7	3469.0	3977.3	4667.1
7.5°	328.5	496.9	629.2	902.2	1236.3	1403.7	2109.4	3036.0	3572.3	4044.4	4696.0
5°	349.5	515.3	650.5	943.0	1293.9	1456.5	2264.8	3205.1	3639.5	4071.2	4644.6
2.5°	365.0	529.6	668.5	973.6	1329.3	1492.8	2337.8	3270.3	3683.9	4104.0	4652.3
0°	375.0	539.8	682.9	995.0	1352.7	1523.9	2375.9	3292.9	3711.2	4131.8	4730.1
-2.5°	388.3	554.6	705.7	1016.8	1358.6	1530.8	2381.4	3284.0	3726.9	4198.2	4814.2
-5°	397.1	565.3	723.8	1029.1	1354.3	1531.8	2351.5	3237.0	3704.3	4181.9	4781.8
-7.5°	402.3	571.8	736.9	1030.1	1331.1	1508.7	2249.5	3089.6	3577.1	4025.3	4614.9
-10°	406.6	581.0	749.2	1012.6	1286.3	1468.2	2105.5	2914.5	3436.0	3848.8	4402.5
-12.5°	420.2	593.6	758.3	991.4	1240.3	1422.7	1929.5	2717.2	3283.8	3654.9	4173.3
-15°	429.8	603.8	763.7	968.3	1195.8	1372.3	1722.6	2502.0	3167.7	3584.6	4029.1
-17.5°	435.4	611.9	765.7	944.9	1155.2	1317.5	1495.2	2302.5	3075.3	3546.6	3956.9
-20°	437.1	618.5	764.4	922.7	1119.5	1284.9	1444.7	2060.3	2849.4	3485.9	3893.2



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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°	434.9	623.9	762.4	912.6	1096.4	1270.3	1425.4	1792.5	2551.1	3398.3	3811.6
-25°	433.6	616.5	762.0	898.4	1070.3	1252.5	1405.4	1542.2	2215.7	3061.8	3701.9
-27.5°	430.9	605.0	746.7	875.8	1037.8	1227.7	1381.9	1516.8	1906.7	2679.3	3529.6
-30°	421.2	574.2	725.6	847.5	1004.9	1185.6	1355.2	1498.2	1644.0	2288.9	3082.1
-32.5°	399.5	540.5	691.0	820.1	964.0	1136.9	1317.4	1465.4	1613.4	1850.1	2602.4
-35°	376.4	508.8	650.5	786.0	914.5	1080.8	1253.3	1421.5	1568.8	1723.6	2090.7
-37.5°	358.6	474.0	608.3	743.3	870.9	1017.1	1182.2	1352.3	1511.0	1670.8	1851.6
-40°	337.0	436.2	566.2	695.6	822.9	954.9	1107.2	1268.1	1434.3	1618.3	1787.8
-42.5°	311.3	408.0	521.9	646.4	769.9	896.6	1028.1	1180.4	1354.2	1548.8	1728.1
-45°	279.1	375.9	476.4	593.2	712.5	833.1	958.2	1090.0	1264.3	1450.2	1640.8
-47.5°	243.1	338.6	435.6	535.4	649.9	766.3	883.1	1016.3	1163.5	1336.5	1521.9
-50°	205.8	294.1	388.9	481.1	582.2	693.9	806.6	935.0	1073.7	1217.7	1380.0
-52.5°	171.6	245.5	334.0	425.4	516.3	615.3	725.3	845.1	973.6	1110.6	1244.2
-55°	134.5	200.6	274.1	361.2	450.8	539.1	633.7	743.5	861.7	986.9	1111.8
-57.5°	104.5	154.0	217.3	290.1	374.9	462.8	546.8	634.4	737.9	850.1	959.5
-60°	78.4	113.8	161.7	223.3	291.5	372.6	456.4	537.4	619.5	702.4	799.1
-62.5°	54.4	81.9	115.1	157.6	216.2	279.6	353.0	430.2	508.5	579.8	650.4
-65°	45.7	54.9	77.8	108.8	141.8	195.4	254.2	315.8	384.6	446.1	509.6
-67.5°	36.5	45.0	53.2	65.6	94.0	124.9	158.3	210.3	264.0	308.3	353.7
-70°	31.9	35.6	42.4	49.7	56.8	69.4	96.5	125.5	154.4	183.3	220.5
-72.5°	28.0	31.2	34.6	38.2	44.1	50.1	56.2	62.3	78.6	100.6	121.0
-75°	24.6	26.7	29.4	32.4	35.3	38.0	41.1	46.1	51.2	56.3	61.3
-77.5°	21.5	23.1	24.9	26.8	28.9	31.3	33.6	35.8	37.9	40.0	42.1
-80°	18.5	19.5	20.6	22.0	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°	22.2	22.8	22.3	20.9	18.6	16.9	15.9	14.7	13.1	12.9	13.6
67.5°	34.9	33.3	31.4	28.8	24.9	21.6	19.9	18.3	16.8	16.4	16.8
65°	44.5	37.7	33.1	29.3	26.2	23.1	21.0	19.0	16.9	15.7	15.5
62.5°	42.9	35.3	30.2	26.7	23.8	21.3	18.7	16.2	13.8	12.2	12.3
60°	40.3	31.8	25.2	21.9	19.3	17.4	15.2	13.2	11.7	10.8	11.0
57.5°	34.3	25.1	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	18.9	19.8	17.2	17.7	19.3	19.4	19.6	20.9	21.4	21.2
45°	24.9	30.0	30.1	27.7	26.2	32.0	32.4	29.3	44.9	44.0	33.3
42.5°	44.3	47.2	47.4	50.0	55.5	72.9	105.2	134.4	138.9	122.0	83.7
40°	71.5	69.0	74.5	89.4	132.5	171.9	201.6	290.6	289.8	226.8	228.5
37.5°	116.3	113.7	122.0	167.3	181.2	156.6	220.6	226.8	194.3	231.5	234.7
35°	200.3	227.1	197.9	245.7	248.1	221.8	238.1	265.7	226.6	271.1	290.4
32.5°	365.1	412.3	416.8	413.1	437.7	461.8	447.7	514.8	526.8	571.4	620.4
30°	593.1	684.1	753.6	740.2	781.1	852.8	876.2	978.7	1080.9	1144.3	1299.5
27.5°	1033.6	1079.5	1222.1	1322.4	1299.2	1416.3	1648.6	1720.4	2013.6	2153.9	2356.0
25°	1636.7	1718.3	1921.4	2159.6	2261.6	2457.8	2835.2	3015.8	3400.7	3597.3	4338.2
22.5°	2384.0	2660.2	2915.0	3235.0	3694.3	4084.3	4503.9	5209.1	6354.9	8001.1	9966.4
20°	3237.2	3700.1	4085.4	4676.6	5437.8	6171.4	7256.8	10386.1	13709.7	20642.1	25352.1
17.5°	4044.4	4779.1	5317.5	6102.7	7227.1	9063.3	12802.0	19796.8	30790.0	44219.2	57038.4
15°	4674.2	5425.2	6423.2	7608.3	9325.7	12919.1	19748.3	33574.1	54533.6	74996.7	96527.5
12.5°	5206.4	6000.7	7094.6	8700.0	11268.7	17727.5	30006.5	50833.4	78463.2	108926.4	141113.7
10°	5549.0	6513.5	7823.6	9943.7	14212.3	23388.6	39351.8	67260.2	104399.2	144172.0	179947.4
7.5°	5609.3	6786.1	8445.6	11024.5	17133.1	29294.2	50467.1	83298.1	123972.9	168768.4	213824.8
5°	5633.3	7040.1	8971.3	11873.6	19139.6	33566.0	56870.3	93573.0	138736.8	184742.4	233233.8
2.5°	5697.6	7289.4	9357.2	12467.6	20297.2	36113.2	60570.7	100933.0	148580.5	198537.2	252602.1
0°	5831.3	7550.4	9440.7	12568.8	20539.7	36167.3	62705.2	105150.4	155000.7	205473.1	261865.7
-2.5°	5903.8	7517.0	9370.3	12362.3	20227.0	36172.9	60653.9	102216.2	151652.8	200897.7	257725.2
-5°	5779.4	7181.3	8936.8	11739.1	18858.7	33280.2	56578.8	94639.9	140269.7	184546.2	230243.3
-7.5°	5512.1	6709.0	8320.6	10854.4	16736.8	28796.3	49213.3	80466.4	119213.4	157705.5	193307.3
-10°	5200.8	6208.4	7530.2	9569.9	13738.3	22769.0	38506.8	63097.6	96379.1	129423.1	159467.8
-12.5°	4864.9	5649.5	6628.2	8038.9	10633.9	17192.0	29183.2	48030.8	71043.9	95971.6	123261.6
-15°	4577.8	5156.3	5898.1	7099.6	9079.0	12807.8	19589.3	32131.7	48633.7	68175.8	88292.6
-17.5°	4384.8	4814.9	5461.0	6377.5	7594.1	9809.0	14717.1	22153.3	32771.3	47397.2	60683.2
-20°	4246.3	4650.8	5163.5	5885.1	6904.1	8465.6	10867.3	15992.5	22979.5	32459.4	41477.7



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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°	4147.5	4511.5	4944.7	5525.4	6435.4	7655.7	9188.7	11676.2	16076.3	21666.7	27936.3
-25°	4050.3	4352.1	4830.0	5454.4	6079.9	6953.0	8012.6	9233.9	11578.0	14063.5	17912.0
-27.5°	3939.0	4312.5	4846.4	5429.7	5993.3	6426.7	7178.8	8021.2	9262.4	10464.0	12441.1
-30°	3858.0	4335.6	4866.8	5427.4	5861.6	6244.7	6665.3	7309.1	8112.2	8961.5	9870.4
-32.5°	3454.9	4264.6	4809.8	5312.3	5671.5	6027.5	6400.1	6846.7	7360.2	7898.2	8450.3
-35°	2914.5	3776.9	4622.7	5016.7	5380.7	5739.6	6128.2	6490.0	6852.3	7216.2	7562.8
-37.5°	2252.2	3097.4	3896.4	4584.8	5002.7	5368.2	5782.4	6153.8	6471.5	6744.9	7011.7
-40°	1967.5	2262.7	3035.6	3760.2	4368.4	4947.6	5338.0	5749.3	6103.6	6355.8	6582.4
-42.5°	1889.2	2055.4	2226.7	2782.4	3454.0	4049.3	4579.0	5093.5	5580.5	5931.1	6200.6
-45°	1821.2	1961.9	2108.7	2272.5	2436.2	2958.2	3508.8	4063.0	4636.3	5149.4	5564.9
-47.5°	1695.4	1865.7	2010.3	2145.9	2276.1	2424.5	2578.0	2798.7	3301.8	3815.2	4283.2
-50°	1539.9	1699.6	1860.7	2021.1	2141.7	2255.7	2372.3	2504.0	2650.6	2800.2	2926.3
-52.5°	1370.6	1517.5	1666.2	1807.7	1942.7	2073.9	2202.0	2318.1	2427.3	2532.7	2594.6
-55°	1233.1	1350.7	1467.9	1589.1	1712.2	1832.2	1951.3	2071.3	2187.0	2297.4	2359.1
-57.5°	1072.7	1189.9	1302.1	1394.5	1490.0	1587.5	1689.4	1792.9	1894.3	1988.7	2041.8
-60°	898.6	1000.2	1097.3	1187.1	1275.5	1362.0	1445.5	1527.6	1606.4	1675.0	1716.7
-62.5°	723.4	806.1	886.7	963.0	1037.2	1110.1	1188.2	1262.4	1332.0	1388.4	1423.1
-65°	574.0	637.1	693.1	748.0	802.2	864.6	931.1	994.0	1053.1	1099.0	1129.4
-67.5°	406.5	460.8	512.1	561.0	606.0	650.5	697.8	744.0	788.5	822.9	847.4
-70°	256.1	290.4	324.2	360.3	399.7	438.9	477.8	513.8	546.6	571.2	589.8
-72.5°	139.6	156.1	173.3	198.9	223.5	249.7	276.5	301.8	325.4	342.1	354.4
-75°	66.3	73.7	87.0	98.8	109.4	120.9	132.5	143.2	152.9	158.1	161.0
-77.5°	45.5	49.1	52.4	55.3	58.0	61.4	65.1	68.8	72.5	74.8	76.7
-80°	33.8	35.3	36.8	38.2	39.7	41.3	42.8	44.3	45.6	46.8	47.8
-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	20.6	21.2	21.4	21.5
-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	14.7
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	19.0
62.5°	12.5	13.0	13.0	13.0	13.0	13.0	12.5	12.3	12.2	13.8	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	34.3	34.4	34.7	34.4	34.3	34.1	33.3	44.0	44.9	29.3
42.5°	80.4	69.5	60.1	60.7	60.1	69.5	80.4	83.7	122.0	138.9	134.4
40°	205.9	154.1	102.5	86.7	102.5	154.1	205.9	228.5	226.8	289.8	290.6
37.5°	212.1	216.3	254.5	342.5	254.5	216.3	212.1	234.7	231.5	194.3	226.8
35°	296.3	301.0	290.4	284.0	290.4	301.0	296.3	290.4	271.1	226.6	265.7
32.5°	630.2	658.2	654.7	637.3	654.7	658.2	630.2	620.4	571.4	526.8	514.8
30°	1357.4	1428.4	1420.7	1435.1	1420.7	1428.4	1357.4	1299.5	1144.3	1080.9	978.7
27.5°	2436.1	2523.8	2539.9	2521.1	2539.9	2523.8	2436.1	2356.0	2153.9	2013.6	1720.4
25°	4835.8	4974.6	4923.9	4858.0	4923.9	4974.6	4835.8	4338.2	3597.3	3400.7	3015.8
22.5°	12263.9	12813.1	12756.6	12293.5	12756.6	12813.1	12263.9	9966.4	8001.1	6354.9	5209.1
20°	33694.0	37319.6	38897.4	36759.1	38897.4	37319.6	33694.0	25352.1	20642.1	13709.7	10386.1
17.5°	71317.9	82364.5	90218.9	93496.4	90218.9	82364.5	71317.9	57038.4	44219.2	30790.0	19796.8
15°	116657.8	133286.4	142957.2	141658.0	142957.2	133286.4	116657.8	96527.5	74996.7	54533.6	33574.1
12.5°	167748.2	187457.1	203790.5	204136.7	203790.5	187457.1	167748.2	141113.7	108926.4	78463.2	50833.4
10°	217165.6	244519.7	266812.9	271133.0	266812.9	244519.7	217165.6	179947.4	144172.0	104399.2	67260.2
7.5°	254239.9	296173.4	324157.6	334411.6	324157.6	296173.4	254239.9	213824.8	168768.4	123972.9	83298.1
5°	290878.1	334817.7	363331.9	368390.5	363331.9	334817.7	290878.1	233233.8	184742.4	138736.8	93573.0
2.5°	315589.9	359913.2	384865.6	402173.2	384865.6	359913.2	315589.9	252602.1	198537.2	148580.5	100933.0
0°	330065.2	366179.4	407467.9	426651.8	407467.9	366179.4	330065.2	261865.7	205473.1	155000.7	105150.4
-2.5°	319120.7	359748.2	383386.7	405186.4	383386.7	359748.2	319120.7	257725.2	200897.7	151652.8	102216.2
-5°	282873.7	327058.3	347941.8	350666.7	347941.8	327058.3	282873.7	230243.3	184546.2	140269.7	94639.9
-7.5°	231141.1	272280.4	292330.8	303399.3	292330.8	272280.4	231141.1	193307.3	157705.5	119213.4	80466.4
-10°	187110.9	211119.2	224616.8	225505.6	224616.8	211119.2	187110.9	159467.8	129423.1	96379.1	63097.6
-12.5°	144459.5	160563.3	168546.4	168254.5	168546.4	160563.3	144459.5	123261.6	95971.6	71043.9	48030.8
-15°	106006.9	118517.9	125718.8	129171.6	125718.8	118517.9	106006.9	88292.6	68175.8	48633.7	32131.7
-17.5°	74823.2	84762.1	91977.4	94892.4	91977.4	84762.1	74823.2	60683.2	47397.2	32771.3	22153.3
-20°	51009.3	57821.0	62502.1	64489.3	62502.1	57821.0	51009.3	41477.7	32459.4	22979.5	15992.5



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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°	33599.2	38165.7	41375.3	41203.0	41375.3	38165.7	33599.2	27936.3	21666.7	16076.3	11676.2
-25°	21419.0	23929.8	25578.4	25712.0	25578.4	23929.8	21419.0	17912.0	14063.5	11578.0	9233.9
-27.5°	14176.5	15280.3	15945.5	16061.1	15945.5	15280.3	14176.5	12441.1	10464.0	9262.4	8021.2
-30°	10729.8	11237.7	11617.9	11602.0	11617.9	11237.7	10729.8	9870.4	8961.5	8112.2	7309.1
-32.5°	8920.0	9170.0	9336.5	9471.0	9336.5	9170.0	8920.0	8450.3	7898.2	7360.2	6846.7
-35°	7800.7	7927.9	8020.8	8105.3	8020.8	7927.9	7800.7	7562.8	7216.2	6852.3	6490.0
-37.5°	7165.2	7253.3	7311.6	7331.4	7311.6	7253.3	7165.2	7011.7	6744.9	6471.5	6153.8
-40°	6669.0	6718.6	6748.1	6765.6	6748.1	6718.6	6669.0	6582.4	6355.8	6103.6	5749.3
-42.5°	6296.6	6364.7	6399.9	6399.3	6399.9	6364.7	6296.6	6200.6	5931.1	5580.5	5093.5
-45°	5803.2	5975.3	6079.7	6124.0	6079.7	5975.3	5803.2	5564.9	5149.4	4636.3	4063.0
-47.5°	4666.8	4993.7	5223.1	5343.6	5223.1	4993.7	4666.8	4283.2	3815.2	3301.8	2798.7
-50°	3039.7	3149.1	3195.0	3175.8	3195.0	3149.1	3039.7	2926.3	2800.2	2650.6	2504.0
-52.5°	2640.6	2679.8	2703.6	2714.1	2703.6	2679.8	2640.6	2594.6	2532.7	2427.3	2318.1
-55°	2411.1	2454.7	2482.8	2497.3	2482.8	2454.7	2411.1	2359.1	2297.4	2187.0	2071.3
-57.5°	2086.0	2121.2	2142.7	2152.6	2142.7	2121.2	2086.0	2041.8	1988.7	1894.3	1792.9
-60°	1752.2	1781.0	1800.0	1810.1	1800.0	1781.0	1752.2	1716.7	1675.0	1606.4	1527.6
-62.5°	1451.2	1472.5	1491.2	1504.4	1491.2	1472.5	1451.2	1423.1	1388.4	1332.0	1262.4
-65°	1154.2	1173.1	1186.7	1194.4	1186.7	1173.1	1154.2	1129.4	1099.0	1053.1	994.0
-67.5°	867.4	882.9	895.7	904.0	895.7	882.9	867.4	847.4	822.9	788.5	744.0
-70°	604.9	616.3	627.4	635.2	627.4	616.3	604.9	589.8	571.2	546.6	513.8
-72.5°	364.2	371.4	374.7	375.0	374.7	371.4	364.2	354.4	342.1	325.4	301.8
-75°	162.6	163.0	166.4	169.1	166.4	163.0	162.6	161.0	158.1	152.9	143.2
-77.5°	78.3	79.6	81.1	82.4	81.1	79.6	78.3	76.7	74.8	72.5	68.8
-80°	48.8	49.6	49.8	49.9	49.8	49.6	48.8	47.8	46.8	45.6	44.3
-82.5°	33.8	34.5	34.7	34.7	34.7	34.5	33.8	33.0	32.2	31.4	30.4
-85°	21.6	21.7	21.7	21.7	21.7	21.7	21.6	21.5	21.4	21.2	20.6
-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	16.9	18.6	20.9	22.3	22.8	22.2	20.4	17.5	15.3	12.3
67.5°	19.9	21.6	24.9	28.8	31.4	33.3	34.9	35.4	33.7	30.4	21.8
65°	21.0	23.1	26.2	29.3	33.1	37.7	44.5	47.9	48.1	45.8	35.4
62.5°	18.7	21.3	23.8	26.7	30.2	35.3	42.9	49.9	56.5	58.3	47.4
60°	15.2	17.4	19.3	21.9	25.2	31.8	40.3	48.5	56.3	56.7	53.2
57.5°	12.4	13.9	15.9	17.7	19.2	25.1	34.3	45.6	55.0	53.3	51.2
55°	10.9	12.0	13.9	15.7	17.6	21.2	26.4	34.9	45.1	48.6	46.8
52.5°	12.8	13.1	13.6	14.5	16.3	18.7	21.8	27.7	32.8	37.6	40.6
50°	15.0	15.0	14.9	15.0	16.3	17.4	19.5	22.7	26.2	30.1	33.2
47.5°	19.4	19.3	17.7	17.2	19.8	18.9	19.7	21.1	24.5	25.5	28.8
45°	32.4	32.0	26.2	27.7	30.1	30.0	24.9	26.9	27.2	27.5	25.9
42.5°	105.2	72.9	55.5	50.0	47.4	47.2	44.3	41.2	38.2	33.9	34.1
40°	201.6	171.9	132.5	89.4	74.5	69.0	71.5	62.4	56.1	48.7	50.7
37.5°	220.6	156.6	181.2	167.3	122.0	113.7	116.3	99.7	77.8	90.9	88.7
35°	238.1	221.8	248.1	245.7	197.9	227.1	200.3	161.9	143.0	163.3	147.1
32.5°	447.7	461.8	437.7	413.1	416.8	412.3	365.1	273.9	276.5	275.2	242.0
30°	876.2	852.8	781.1	740.2	753.6	684.1	593.1	576.6	507.6	416.5	363.3
27.5°	1648.6	1416.3	1299.2	1322.4	1222.1	1079.5	1033.6	1003.5	819.9	649.5	518.3
25°	2835.2	2457.8	2261.6	2159.6	1921.4	1718.3	1636.7	1524.9	1288.4	950.4	721.2
22.5°	4503.9	4084.3	3694.3	3235.0	2915.0	2660.2	2384.0	2118.1	1838.2	1384.4	1029.0
20°	7256.8	6171.4	5437.8	4676.6	4085.4	3700.1	3237.2	2782.7	2397.0	1931.7	1383.0
17.5°	12802.0	9063.3	7227.1	6102.7	5317.5	4779.1	4044.4	3374.5	2932.8	2514.8	1762.1
15°	19748.3	12919.1	9325.7	7608.3	6423.2	5425.2	4674.2	3903.0	3447.2	3048.1	2219.1
12.5°	30006.5	17727.5	11268.7	8700.0	7094.6	6000.7	5206.4	4455.0	3863.9	3323.5	2545.0
10°	39351.8	23388.6	14212.3	9943.7	7823.6	6513.5	5549.0	4667.1	3977.3	3469.0	2816.7
7.5°	50467.1	29294.2	17133.1	11024.5	8445.6	6786.1	5609.3	4696.0	4044.4	3572.3	3036.0
5°	56870.3	33566.0	19139.6	11873.6	8971.3	7040.1	5633.3	4644.6	4071.2	3639.5	3205.1
2.5°	60570.7	36113.2	20297.2	12467.6	9357.2	7289.4	5697.6	4652.3	4104.0	3683.9	3270.3
0°	62705.2	36167.3	20539.7	12568.8	9440.7	7550.4	5831.3	4730.1	4131.8	3711.2	3292.9
-2.5°	60653.9	36172.9	20227.0	12362.3	9370.3	7517.0	5903.8	4814.2	4198.2	3726.9	3284.0
-5°	56578.8	33280.2	18858.7	11739.1	8936.8	7181.3	5779.4	4781.8	4181.9	3704.3	3237.0
-7.5°	49213.3	28796.3	16736.8	10854.4	8320.6	6709.0	5512.1	4614.9	4025.3	3577.1	3089.6
-10°	38506.8	22769.0	13738.3	9569.9	7530.2	6208.4	5200.8	4402.5	3848.8	3436.0	2914.5
-12.5°	29183.2	17192.0	10633.9	8038.9	6628.2	5649.5	4864.9	4173.3	3654.9	3283.8	2717.2
-15°	19589.3	12807.8	9079.0	7099.6	5898.1	5156.3	4577.8	4029.1	3584.6	3167.7	2502.0
-17.5°	14717.1	9809.0	7594.1	6377.5	5461.0	4814.9	4384.8	3956.9	3546.6	3075.3	2302.5
-20°	10867.3	8465.6	6904.1	5885.1	5163.5	4650.8	4246.3	3893.2	3485.9	2849.4	2060.3





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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°	9188.7	7655.7	6435.4	5525.4	4944.7	4511.5	4147.5	3811.6	3398.3	2551.1	1792.5
-25°	8012.6	6953.0	6079.9	5454.4	4830.0	4352.1	4050.3	3701.9	3061.8	2215.7	1542.2
-27.5°	7178.8	6426.7	5993.3	5429.7	4846.4	4312.5	3939.0	3529.6	2679.3	1906.7	1516.8
-30°	6665.3	6244.7	5861.6	5427.4	4866.8	4335.6	3858.0	3082.1	2288.9	1644.0	1498.2
-32.5°	6400.1	6027.5	5671.5	5312.3	4809.8	4264.6	3454.9	2602.4	1850.1	1613.4	1465.4
-35°	6128.2	5739.6	5380.7	5016.7	4622.7	3776.9	2914.5	2090.7	1723.6	1568.8	1421.5
-37.5°	5782.4	5368.2	5002.7	4584.8	3896.4	3097.4	2252.2	1851.6	1670.8	1511.0	1352.3
-40°	5338.0	4947.6	4368.4	3760.2	3035.6	2262.7	1967.5	1787.8	1618.3	1434.3	1268.1
-42.5°	4579.0	4049.3	3454.0	2782.4	2226.7	2055.4	1889.2	1728.1	1548.8	1354.2	1180.4
-45°	3508.8	2958.2	2436.2	2272.5	2108.7	1961.9	1821.2	1640.8	1450.2	1264.3	1090.0
-47.5°	2578.0	2424.5	2276.1	2145.9	2010.3	1865.7	1695.4	1521.9	1336.5	1163.5	1016.3
-50°	2372.3	2255.7	2141.7	2021.1	1860.7	1699.6	1539.9	1380.0	1217.7	1073.7	935.0
-52.5°	2202.0	2073.9	1942.7	1807.7	1666.2	1517.5	1370.6	1244.2	1110.6	973.6	845.1
-55°	1951.3	1832.2	1712.2	1589.1	1467.9	1350.7	1233.1	1111.8	986.9	861.7	743.5
-57.5°	1689.4	1587.5	1490.0	1394.5	1302.1	1189.9	1072.7	959.5	850.1	737.9	634.4
-60°	1445.5	1362.0	1275.5	1187.1	1097.3	1000.2	898.6	799.1	702.4	619.5	537.4
-62.5°	1188.2	1110.1	1037.2	963.0	886.7	806.1	723.4	650.4	579.8	508.5	430.2
-65°	931.1	864.6	802.2	748.0	693.1	637.1	574.0	509.6	446.1	384.6	315.8
-67.5°	697.8	650.5	606.0	561.0	512.1	460.8	406.5	353.7	308.3	264.0	210.3
-70°	477.8	438.9	399.7	360.3	324.2	290.4	256.1	220.5	183.3	154.4	125.5
-72.5°	276.5	249.7	223.5	198.9	173.3	156.1	139.6	121.0	100.6	78.6	62.3
-75°	132.5	120.9	109.4	98.8	87.0	73.7	66.3	61.3	56.3	51.2	46.1
-77.5°	65.1	61.4	58.0	55.3	52.4	49.1	45.5	42.1	40.0	37.9	35.8
-80°	42.8	41.3	39.7	38.2	36.8	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°	47.3	35.3	24.6	17.3	10.9	7.0	6.7	7.1	7.0	6.5	6.5
57.5°	47.8	43.9	34.6	24.3	16.1	9.5	7.0	7.5	7.4	6.9	6.5
55°	45.5	43.3	41.5	33.1	22.2	13.9	8.7	7.9	8.0	7.5	6.6
52.5°	40.5	42.6	43.0	39.3	29.8	18.8	12.7	8.5	8.6	8.1	7.2
50°	35.0	40.8	44.0	42.3	36.4	26.0	16.4	11.4	9.2	8.7	7.8
47.5°	32.8	39.6	44.2	45.2	40.3	32.9	22.0	14.3	9.9	9.4	8.4
45°	33.2	38.7	44.6	46.9	44.8	37.7	28.1	16.9	12.2	10.1	9.0
42.5°	35.9	40.7	44.6	49.5	47.7	41.7	34.0	21.9	14.3	10.7	9.6
40°	48.6	45.4	46.4	51.7	51.2	45.6	37.8	27.0	16.1	11.7	10.1
37.5°	65.9	57.8	52.4	59.1	56.5	49.6	41.1	31.8	18.6	13.1	10.7
35°	112.4	77.4	76.9	77.3	67.2	54.3	44.3	35.8	23.0	14.4	11.2
32.5°	171.4	133.4	130.0	108.2	81.9	59.7	48.3	39.3	27.4	15.6	11.7
30°	285.7	256.7	203.3	148.2	104.8	73.6	54.0	43.0	31.8	16.7	12.3
27.5°	473.3	408.7	302.7	215.7	143.4	91.6	61.9	46.8	36.1	18.6	13.2
25°	667.3	584.9	450.2	302.5	187.9	127.8	71.0	50.7	39.7	22.1	14.0
22.5°	855.2	768.2	616.7	401.0	253.1	174.4	90.7	57.9	42.7	25.4	14.7
20°	1038.1	955.9	787.1	490.8	329.7	231.5	124.8	65.5	45.8	28.5	15.3
17.5°	1240.1	1100.3	882.8	596.1	405.6	289.1	164.0	73.5	48.8	31.5	15.8
15°	1488.2	1185.7	975.1	689.6	473.2	346.5	207.2	81.7	51.7	34.2	16.5
12.5°	1710.3	1264.7	1066.1	771.6	533.1	403.3	252.9	90.0	54.5	37.4	17.4
10°	1918.9	1337.3	1153.8	842.3	585.9	458.7	299.6	99.2	58.9	40.9	18.4
7.5°	2109.4	1403.7	1236.3	902.2	629.2	496.9	328.5	110.6	63.5	44.2	19.3
5°	2264.8	1456.5	1293.9	943.0	650.5	515.3	349.5	121.5	67.9	47.2	20.2
2.5°	2337.8	1492.8	1329.3	973.6	668.5	529.6	365.0	131.7	72.1	49.8	21.0
0°	2375.9	1523.9	1352.7	995.0	682.9	539.8	375.0	140.9	75.9	52.0	21.7
-2.5°	2381.4	1530.8	1358.6	1016.8	705.7	554.6	388.3	166.0	95.4	63.9	28.5
-5°	2351.5	1531.8	1354.3	1029.1	723.8	565.3	397.1	189.4	114.1	75.2	34.9
-7.5°	2249.5	1508.7	1331.1	1030.1	736.9	571.8	402.3	211.0	131.6	85.5	41.0
-10°	2105.5	1468.2	1286.3	1012.6	749.2	581.0	406.6	230.5	147.6	94.6	46.5
-12.5°	1929.5	1422.7	1240.3	991.4	758.3	593.6	420.2	250.1	161.9	102.3	51.2
-15°	1722.6	1372.3	1195.8	968.3	763.7	603.8	429.8	267.4	174.8	109.2	55.0
-17.5°	1495.2	1317.5	1155.2	944.9	765.7	611.9	435.4	280.7	185.7	115.2	58.6
-20°	1444.7	1284.9	1119.5	922.7	764.4	618.5	437.1	289.5	194.2	119.3	61.7



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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°	1425.4	1270.3	1096.4	912.6	762.4	623.9	434.9	293.5	200.2	121.2	63.5
-25°	1405.4	1252.5	1070.3	898.4	762.0	616.5	433.6	292.3	203.6	120.9	63.8
-27.5°	1381.9	1227.7	1037.8	875.8	746.7	605.0	430.9	295.0	203.7	118.1	62.6
-30°	1355.2	1185.6	1004.9	847.5	725.6	574.2	421.2	294.5	200.1	115.5	59.7
-32.5°	1317.4	1136.9	964.0	820.1	691.0	540.5	399.5	290.3	193.2	112.1	57.7
-35°	1253.3	1080.8	914.5	786.0	650.5	508.8	376.4	282.2	182.8	106.3	55.2
-37.5°	1182.2	1017.1	870.9	743.3	608.3	474.0	358.6	264.2	169.1	98.2	51.4
-40°	1107.2	954.9	822.9	695.6	566.2	436.2	337.0	241.9	156.3	87.7	46.3
-42.5°	1028.1	896.6	769.9	646.4	521.9	408.0	311.3	216.3	139.8	78.8	39.8
-45°	958.2	833.1	712.5	593.2	476.4	375.9	279.1	188.4	120.6	69.8	34.6
-47.5°	883.1	766.3	649.9	535.4	435.6	338.6	243.1	164.0	99.3	59.1	32.3
-50°	806.6	693.9	582.2	481.1	388.9	294.1	205.8	136.8	84.5	46.3	29.5
-52.5°	725.3	615.3	516.3	425.4	334.0	245.5	171.6	108.2	68.4	39.4	26.4
-55°	633.7	539.1	450.8	361.2	274.1	200.6	134.5	88.2	51.1	35.0	23.1
-57.5°	546.8	462.8	374.9	290.1	217.3	154.0	104.5	66.8	42.8	30.4	21.9
-60°	456.4	372.6	291.5	223.3	161.7	113.8	78.4	49.4	37.0	26.1	20.5
-62.5°	353.0	279.6	216.2	157.6	115.1	81.9	54.4	42.3	30.8	24.3	19.1
-65°	254.2	195.4	141.8	108.8	77.8	54.9	45.7	34.8	27.7	22.5	17.8
-67.5°	158.3	124.9	94.0	65.6	53.2	45.0	36.5	30.5	25.3	20.5	16.7
-70°	96.5	69.4	56.8	49.7	42.4	35.6	31.9	27.6	22.8	19.1	15.7
-72.5°	56.2	50.1	44.1	38.2	34.6	31.2	28.0	24.6	21.0	17.6	14.5
-75°	41.1	38.0	35.3	32.4	29.4	26.7	24.6	22.3	19.0	16.0	13.2
-77.5°	33.6	31.3	28.9	26.8	24.9	23.1	21.5	19.8	17.0	14.4	12.0
-80°	26.6	24.9	23.4	22.0	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



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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°	22.6	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°	26.5	15.0	10.4	7.9	7.0	6.5	4.3
-15°	28.0	15.7	10.6	8.1	7.0	6.4	4.3
-17.5°	29.1	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



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**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°	31.0	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°	25.9	15.7	12.0	9.2	7.3	6.2	4.3
-40°	24.9	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

