

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: P701419 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-70-3S-CV1-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701419 (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-08-0320L-57-70-3S-CV1-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 3S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

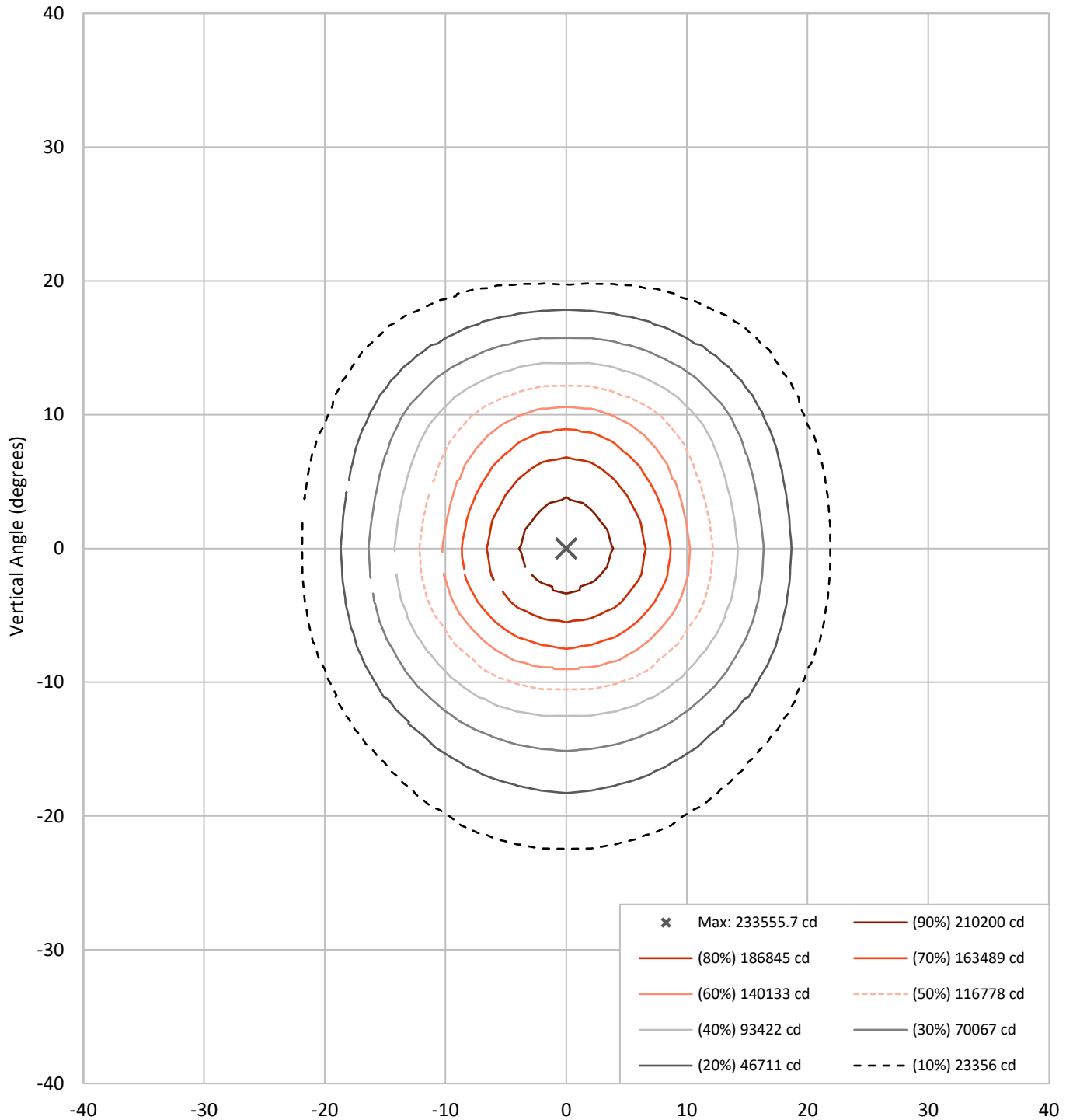
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	48406.3 lumens	Max Intensity:	233555.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	140.6 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:	22825.8 lumens	Field Lumens:	41235.9 lumens
Beam Efficiency:	47.2%	Field Efficiency:	85.2%

Input Watts (W): 344.2  
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-08-0320L-57-70-3S-CV1-S

### Iso-Candela Plot





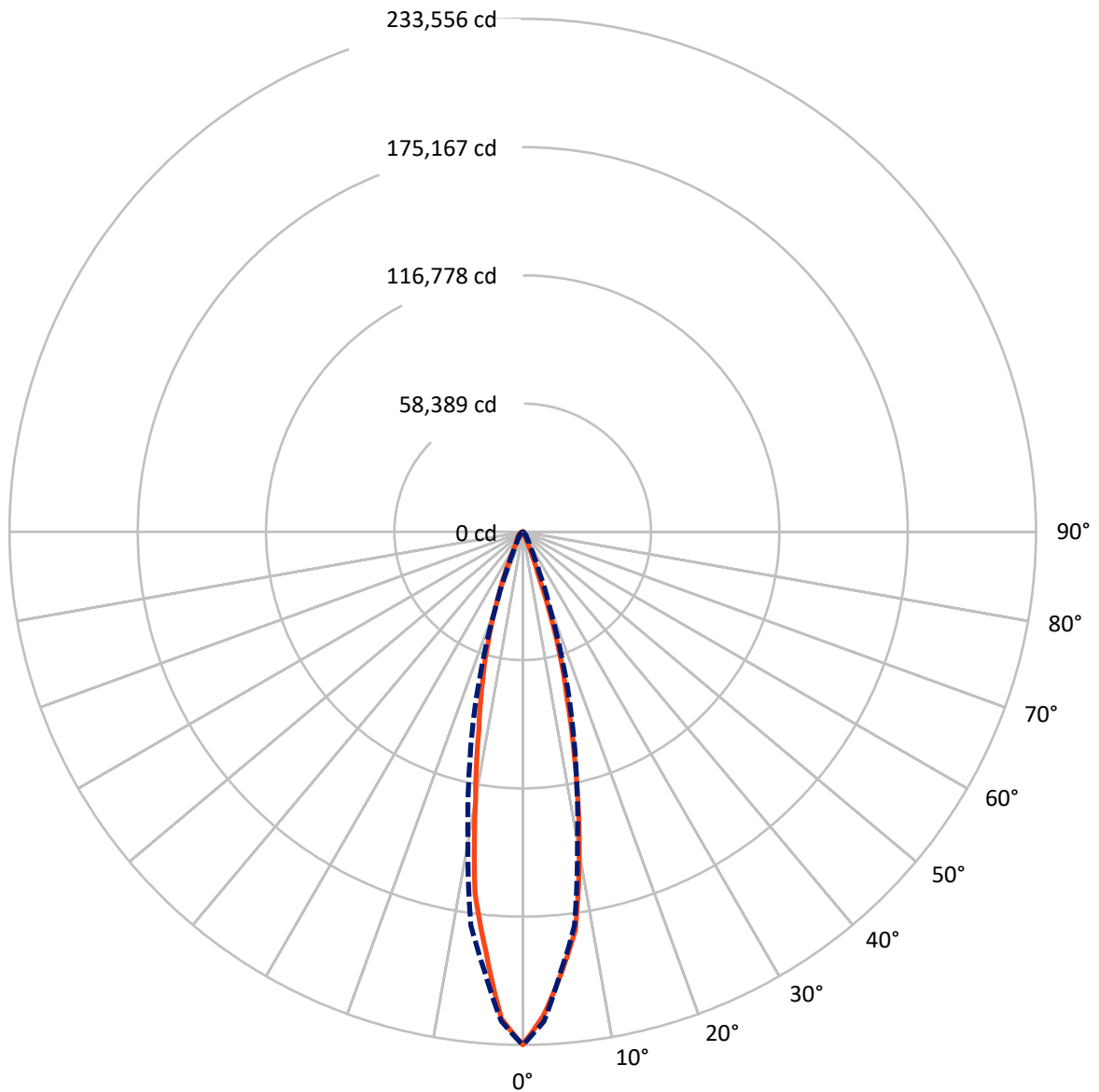
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### Lumen Table

90	0.1		0.1		0.3		0.3		0.3		0.3		0.3		0.1		0.1	
80	0.1		0.1		0.3		0.3		0.3		0.3		0.3		0.1		0.1	
70	0.1	0.0	0.1	0.4	0.5	0.4	0.3	0.2	0.2	0.3	0.4	0.5	0.4	0.1	0.0	0.1		
60		0.1	0.3	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.3	0.1			
50	0.1	0.1	0.4	0.4	0.5	0.7	1.3	0.9	0.9	1.3	0.7	0.5	0.4	0.4	0.1	0.1		
40		0.3	0.8	1.9	3.4	4.9	6.8	8.1	8.1	6.8	4.9	3.4	1.9	0.8	0.3			
30	0.1	0.5	3.3	10.3	23.9	39.8	81.6	157.1	157.1	81.6	39.8	23.9	10.3	3.3	0.5	0.1		
20		1.0	7.1	26.3	63.6	168.5	927.7	2189.3	2189.3	927.7	168.5	63.6	26.3	7.1	1.0			
10	0.2	1.5	9.4	35.0	81.9	359.3	2224.0	5215.7	5215.7	2224.0	359.3	81.9	35.0	9.4	1.5	0.2		
0		1.9	10.0	35.6	82.1	355.8	2185.1	4998.2	4998.2	2185.1	355.8	82.1	35.6	10.0	1.9			
-10	0.4	2.2	9.5	29.5	64.5	169.8	885.9	1999.5	1999.5	885.9	169.8	64.5	29.5	9.5	2.2	0.4		
-20		2.4	8.8	22.1	55.0	96.3	220.4	450.7	450.7	220.4	96.3	55.0	22.1	8.8	2.4			
-30	0.3	2.1	7.6	16.7	40.6	79.6	111.8	137.3	137.3	111.8	79.6	40.6	16.7	7.6	2.1	0.3		
-40		1.5	5.8	13.2	24.6	43.7	71.6	91.7	91.7	71.6	43.7	24.6	13.2	5.8	1.5			
-50	0.2	0.7	3.5	8.9	16.8	25.9	34.6	40.1	40.1	34.6	25.9	16.8	8.9	3.5	0.7	0.2		
-60		0.3	1.2	3.8	7.8	12.4	17.0	19.6	19.6	17.0	12.4	7.8	3.8	1.2	0.3			
-70	0.1	0.7	2.5	6.4	8.6	6.4	2.5	0.7	0.1									
-80		0.1	0.7	2.5	6.4	8.6	6.4	2.5	0.7									
-90	0.1		0.7		2.5		6.4		8.6		6.4		2.5		0.7		0.1	

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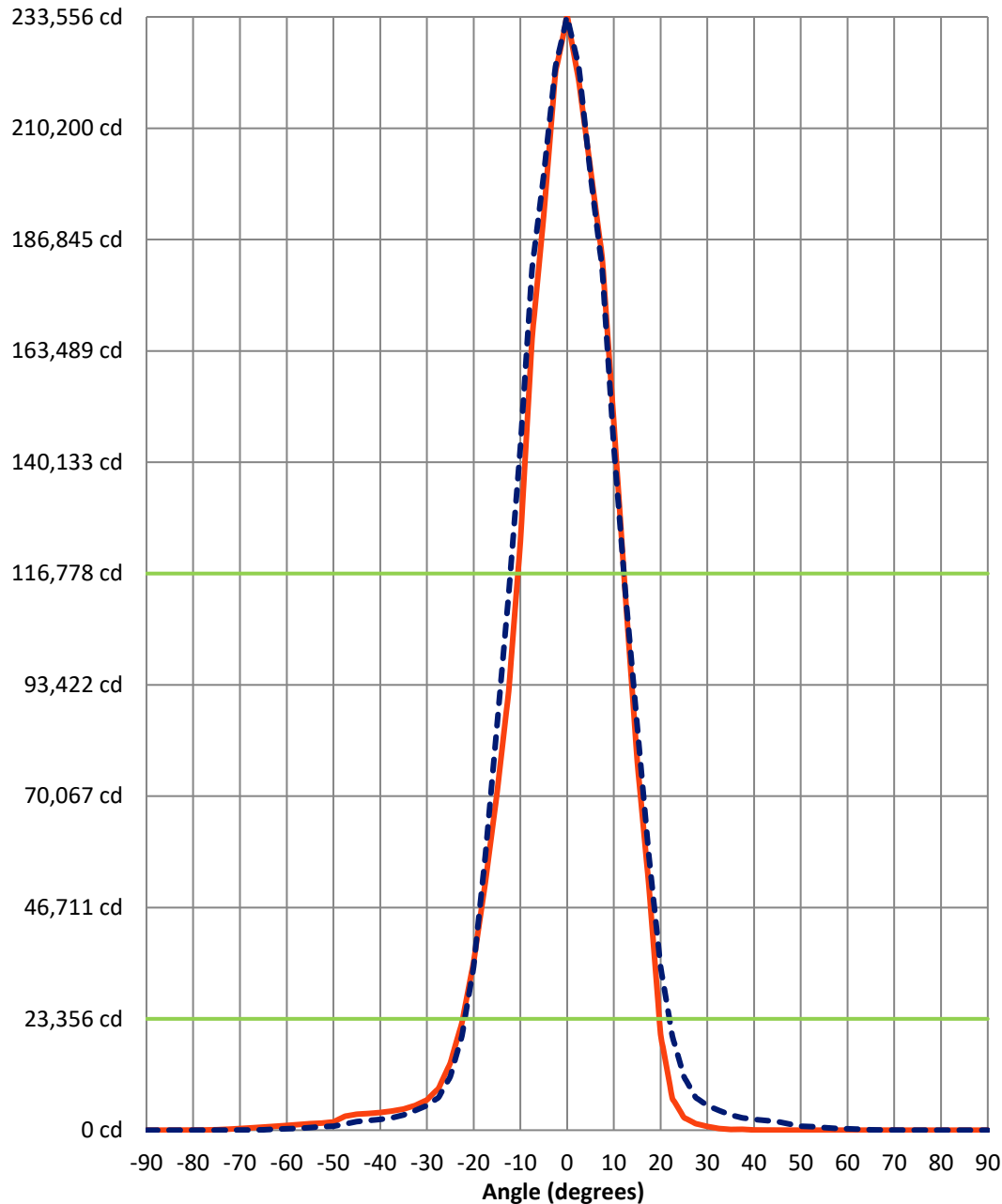
### Luminous Intensity Polar Plot



— 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: 22825.8  
 Efficiency: 47.2%

**Field:**  
 H Angle: 43.8°  
 V Angle: 42.1°  
 Lumens: 41235.9  
 Efficiency: 85.2%

**Spill:**  
 Lumens: 7170.4  
 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°	2.4	3.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	2.4	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.5	2.6	2.6	2.6	2.5	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.6	2.7	2.8	2.7	2.6	2.4	2.4	2.4	2.4	2.4
80°	2.4	2.6	2.8	2.9	2.8	2.7	2.5	2.6	2.6	2.6	2.4
77.5°	2.4	2.7	2.9	3.0	2.9	2.8	2.8	2.9	2.9	2.7	2.5
75°	2.4	2.7	3.0	3.1	3.1	3.0	3.1	3.2	3.1	2.8	2.5
72.5°	2.4	2.8	3.1	3.2	3.2	3.2	3.4	3.4	3.1	2.8	2.5
70°	2.4	2.8	3.2	3.4	3.3	3.4	3.6	3.4	3.1	2.9	2.9
67.5°	2.4	2.9	3.3	3.4	3.4	3.5	3.6	3.5	3.2	3.1	3.3
65°	2.4	2.9	3.4	3.4	3.4	3.6	3.6	3.5	3.3	3.4	3.6
62.5°	2.4	3.0	3.5	3.5	3.5	3.6	3.6	3.5	3.5	3.6	3.7
60°	2.4	3.0	3.6	3.5	3.6	3.6	3.6	3.6	3.6	3.8	3.9
57.5°	2.4	3.0	3.6	3.5	3.6	3.6	3.6	3.6	3.8	4.1	4.1
55°	2.4	3.1	3.6	3.6	3.6	3.6	3.7	3.7	4.1	4.3	4.4
52.5°	2.4	3.1	3.6	3.6	3.6	3.6	3.8	3.9	4.4	4.7	4.7
50°	2.4	3.2	3.6	3.6	3.6	3.7	3.9	4.3	4.7	5.0	6.3
47.5°	2.4	3.2	3.6	3.6	3.6	3.8	4.1	4.6	5.1	5.4	7.9
45°	2.4	3.2	3.6	3.6	3.6	3.9	4.3	4.9	5.5	6.7	9.3
42.5°	2.4	3.3	3.6	3.6	3.6	4.1	4.6	5.2	5.9	7.8	12.0
40°	2.4	3.3	3.6	3.6	3.7	4.2	4.8	5.5	6.4	8.8	14.8
37.5°	2.4	3.4	3.6	3.6	3.8	4.4	5.1	5.8	7.2	10.2	17.4
35°	2.4	3.4	3.6	3.6	3.9	4.6	5.3	6.1	7.9	12.6	19.6
32.5°	2.4	3.4	3.6	3.6	4.0	4.7	5.6	6.4	8.6	15.0	21.5
30°	2.4	3.4	3.6	3.6	4.1	4.9	5.8	6.7	9.2	17.4	23.5
27.5°	2.4	3.5	3.6	3.6	4.2	5.1	6.0	7.2	10.2	19.8	25.6
25°	2.4	3.5	3.6	3.6	4.3	5.3	6.2	7.7	12.1	21.7	27.8
22.5°	2.4	3.5	3.6	3.6	4.4	5.4	6.4	8.1	13.9	23.4	31.7
20°	2.4	3.5	3.6	3.6	4.4	5.5	6.6	8.4	15.6	25.0	35.8
17.5°	2.4	3.5	3.6	3.6	4.5	5.6	6.8	8.7	17.2	26.7	40.2
15°	2.4	3.6	3.6	3.6	4.5	5.7	7.0	9.1	18.7	28.3	44.7
12.5°	2.4	3.6	3.6	3.6	4.6	5.8	7.3	9.6	20.5	29.8	49.3
10°	2.4	3.6	3.6	3.6	4.6	5.8	7.5	10.1	22.4	32.2	54.3
7.5°	2.4	3.6	3.6	3.6	4.7	5.8	7.7	10.6	24.2	34.7	60.5
5°	2.4	3.6	3.6	3.6	4.7	5.9	7.9	11.1	25.8	37.2	66.5
2.5°	2.4	3.6	3.6	3.6	4.7	5.9	8.1	11.5	27.3	39.4	72.1
0°	2.4	3.6	3.6	3.6	4.7	5.9	8.3	11.9	28.5	41.5	77.1
-2.5°	2.4	3.6	3.6	3.8	4.9	6.4	9.7	15.6	35.0	52.2	90.8
-5°	2.4	3.6	3.7	3.9	5.1	6.9	11.1	19.1	41.2	62.4	103.7
-7.5°	2.4	3.6	3.7	4.0	5.3	7.4	12.3	22.5	46.8	72.0	115.5
-10°	2.4	3.6	3.8	4.2	5.5	7.8	13.5	25.5	51.8	80.8	126.2
-12.5°	2.4	3.6	3.8	4.3	5.6	8.2	14.5	28.1	56.0	88.6	136.9
-15°	2.4	3.6	3.9	4.4	5.8	8.6	15.3	30.1	59.8	95.7	146.4
-17.5°	2.4	3.6	3.9	4.6	5.9	8.8	15.9	32.1	63.1	101.6	153.6
-20°	2.4	3.5	3.9	4.7	6.1	9.1	16.5	33.8	65.3	106.3	158.4



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 CATALOG NUMBER: EPH-LS-08-0320L-57-70-3S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.4	3.5	4.0	4.8	6.2	9.2	17.1	34.7	66.4	109.6	160.6
-25°	2.4	3.5	4.0	4.8	6.3	9.3	17.2	34.9	66.2	111.4	159.9
-27.5°	2.4	3.5	4.0	4.9	6.4	9.4	17.0	34.2	64.6	111.5	161.4
-30°	2.4	3.5	4.0	5.0	6.5	9.3	16.3	32.7	63.2	109.5	161.2
-32.5°	2.4	3.5	4.0	5.0	6.5	9.1	15.1	31.6	61.3	105.7	158.9
-35°	2.4	3.4	4.0	5.0	6.6	8.9	14.5	30.2	58.2	100.0	154.5
-37.5°	2.4	3.4	4.0	5.0	6.6	8.6	14.2	28.1	53.7	92.5	144.6
-40°	2.4	3.4	4.0	5.0	6.5	8.6	13.6	25.3	48.0	85.5	132.4
-42.5°	2.4	3.4	4.0	5.0	6.5	8.5	12.9	21.8	43.1	76.5	118.3
-45°	2.4	3.4	3.9	4.9	6.4	8.4	12.0	18.9	38.2	66.0	103.1
-47.5°	2.4	3.4	3.9	4.9	6.3	8.3	11.0	17.7	32.3	54.3	89.7
-50°	2.4	3.3	3.8	4.8	6.2	8.0	10.6	16.2	25.3	46.2	74.8
-52.5°	2.4	3.3	3.8	4.7	6.1	7.8	10.2	14.5	21.6	37.4	59.2
-55°	2.4	3.3	3.7	4.6	5.9	7.5	9.8	12.7	19.2	27.9	48.3
-57.5°	2.4	3.3	3.7	4.5	5.8	7.3	9.3	12.0	16.7	23.4	36.6
-60°	2.4	3.3	3.6	4.4	5.6	7.0	8.7	11.3	14.3	20.3	27.0
-62.5°	2.4	3.2	3.6	4.3	5.4	6.7	8.4	10.5	13.4	16.9	23.2
-65°	2.4	3.2	3.6	4.2	5.2	6.4	7.9	9.7	12.3	15.2	19.1
-67.5°	2.4	3.2	3.6	4.0	4.9	6.1	7.5	9.2	11.2	13.9	16.7
-70°	2.4	3.2	3.6	3.9	4.7	5.7	7.0	8.6	10.4	12.5	15.1
-72.5°	2.4	3.2	3.6	3.8	4.4	5.3	6.4	7.9	9.6	11.5	13.4
-75°	2.4	3.1	3.6	3.8	4.2	5.0	5.9	7.2	8.8	10.4	12.2
-77.5°	2.4	3.1	3.6	3.8	4.1	4.5	5.3	6.5	7.9	9.3	10.9
-80°	2.4	3.1	3.6	3.7	4.0	4.3	4.7	5.8	6.9	8.1	9.5
-82.5°	2.4	3.1	3.6	3.7	3.9	4.1	4.4	5.1	5.9	6.9	8.0
-85°	2.4	3.1	3.6	3.7	3.8	4.0	4.2	4.6	5.2	5.8	6.5
-87.5°	2.4	3.0	3.6	3.6	3.7	3.8	3.9	4.1	4.4	4.7	5.1
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	3.9	4.2	4.4	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	2.1	1.8	1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	2.1	1.8	1.6	1.4	1.4	1.4	1.3	1.2	1.2	1.2	1.2
82.5°	2.2	2.1	2.1	2.1	2.0	1.8	1.5	1.4	1.4	1.4	1.3
80°	2.4	2.4	2.4	2.4	2.3	2.2	2.1	2.2	2.1	1.9	1.8
77.5°	2.4	2.4	2.4	2.4	2.4	2.5	2.7	3.0	3.0	2.9	2.7
75°	2.4	2.4	2.5	2.4	2.5	2.8	3.2	3.5	3.5	3.4	3.4
72.5°	2.6	2.7	2.7	2.5	2.8	3.2	3.5	3.6	4.3	5.2	5.9
70°	3.1	3.1	3.1	3.1	3.4	3.9	5.1	6.7	8.4	9.6	11.2
67.5°	3.5	3.4	3.4	3.7	4.5	5.9	7.8	12.0	16.6	18.4	19.3
65°	3.6	3.6	3.9	4.6	5.8	9.3	13.9	19.3	25.0	26.3	26.2
62.5°	3.6	3.8	4.4	6.1	9.5	13.9	19.8	25.9	31.9	30.9	27.3
60°	3.7	3.9	6.0	9.5	13.5	19.3	25.9	29.1	31.0	30.8	26.5
57.5°	3.9	5.2	8.8	13.3	19.0	24.0	26.1	28.0	29.2	30.1	25.0
55°	4.8	7.6	12.2	18.1	22.7	23.7	24.9	25.6	26.6	24.7	19.1
52.5°	7.0	10.3	16.3	21.5	23.5	23.3	22.1	22.3	20.6	18.0	15.2
50°	9.0	14.2	19.9	23.1	24.1	22.3	19.2	18.2	16.5	14.4	12.5
47.5°	12.1	18.0	22.1	24.7	24.2	21.7	18.0	15.7	14.0	13.4	11.6
45°	15.4	20.7	24.5	25.7	24.4	21.2	18.2	14.2	15.0	14.9	14.8
42.5°	18.6	22.9	26.1	27.1	24.4	22.3	19.6	18.7	18.6	21.0	22.6
40°	20.7	24.9	28.0	28.3	25.4	24.8	26.6	27.8	26.7	30.7	34.1
37.5°	22.5	27.1	30.9	32.4	28.7	31.6	36.1	48.6	49.8	42.6	54.6
35°	24.3	29.7	36.8	42.3	42.1	42.4	61.5	80.6	89.4	78.3	88.6
32.5°	26.4	32.6	44.8	59.2	71.2	73.0	93.9	132.5	150.6	151.4	149.9
30°	29.5	40.3	57.4	81.1	111.3	140.6	156.4	198.9	228.0	277.9	315.6
27.5°	33.9	50.1	78.5	118.1	165.7	223.8	259.1	283.7	355.5	448.8	549.4
25°	38.8	70.0	102.9	165.6	246.4	320.2	365.3	394.8	520.3	705.3	834.8
22.5°	49.6	95.5	138.6	219.5	337.6	420.5	468.1	563.2	757.9	1006.3	1159.5
20°	68.3	126.8	180.5	268.7	430.9	523.3	568.3	757.1	1057.5	1312.2	1523.3
17.5°	89.8	158.3	222.1	326.3	483.3	602.3	678.8	964.6	1376.7	1605.4	1847.2
15°	113.5	189.7	259.1	377.5	533.8	649.1	814.6	1214.7	1668.6	1887.1	2136.5
12.5°	138.5	220.8	291.8	422.4	583.6	692.3	936.2	1393.2	1819.3	2115.1	2438.7
10°	164.1	251.2	320.7	461.1	631.6	732.1	1050.4	1541.9	1899.0	2177.2	2554.9
7.5°	179.9	272.0	344.4	493.9	676.8	768.4	1154.7	1662.0	1955.6	2214.0	2570.7
5°	191.4	282.1	356.1	516.2	708.3	797.3	1239.8	1754.6	1992.3	2228.7	2542.5
2.5°	199.8	289.9	365.9	533.0	727.7	817.1	1279.8	1790.2	2016.6	2246.6	2546.7
0°	205.3	295.5	373.8	544.7	740.5	834.2	1300.6	1802.6	2031.6	2261.8	2589.3
-2.5°	212.6	303.6	386.3	556.6	743.7	838.0	1303.6	1797.7	2040.2	2298.2	2635.4
-5°	217.4	309.4	396.2	563.3	741.4	838.5	1287.3	1772.0	2027.8	2289.3	2617.7
-7.5°	220.2	313.0	403.4	563.9	728.7	825.9	1231.4	1691.3	1958.2	2203.5	2526.3
-10°	222.6	318.1	410.1	554.3	704.2	803.7	1152.6	1595.5	1880.9	2106.9	2410.0
-12.5°	230.0	324.9	415.1	542.7	679.0	778.8	1056.3	1487.4	1797.6	2000.8	2284.6
-15°	235.3	330.5	418.1	530.1	654.6	751.3	943.0	1369.6	1734.1	1962.3	2205.6
-17.5°	238.3	335.0	419.1	517.3	632.4	721.3	818.5	1260.4	1683.5	1941.5	2166.1
-20°	239.3	338.6	418.4	505.1	612.9	703.4	790.9	1127.8	1559.8	1908.2	2131.2



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 CATALOG NUMBER: EPH-LS-08-0320L-57-70-3S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	238.1	341.5	417.4	499.6	600.2	695.4	780.3	981.3	1396.5	1860.3	2086.5
-25°	237.4	337.5	417.2	491.8	585.9	685.7	769.4	844.2	1212.9	1676.1	2026.5
-27.5°	235.9	331.2	408.7	479.4	568.1	672.1	756.5	830.3	1043.7	1466.7	1932.2
-30°	230.5	314.3	397.2	464.0	550.1	649.0	741.9	820.2	899.9	1253.0	1687.2
-32.5°	218.6	295.9	378.3	448.9	527.7	622.4	721.2	802.2	883.2	1012.8	1424.6
-35°	206.0	278.5	356.1	430.3	500.5	591.7	686.1	778.2	858.8	943.6	1144.5
-37.5°	196.3	259.4	333.0	406.9	476.8	556.7	647.1	740.3	827.1	914.7	1013.6
-40°	184.5	238.8	310.0	380.8	450.5	522.7	606.1	694.1	785.2	885.9	978.7
-42.5°	170.4	223.3	285.7	353.9	421.5	490.8	562.7	646.1	741.3	847.8	946.0
-45°	152.8	205.8	260.8	324.7	390.0	456.1	524.5	596.7	692.1	793.8	898.2
-47.5°	133.0	185.3	238.5	293.1	355.8	419.5	483.5	556.4	636.9	731.6	833.1
-50°	112.6	160.9	212.9	263.3	318.7	379.8	441.5	511.8	587.8	666.6	755.4
-52.5°	93.9	134.4	182.8	232.9	282.6	336.8	397.0	462.6	533.0	608.0	681.1
-55°	73.6	109.8	150.0	197.7	246.7	295.1	346.8	406.9	471.7	540.2	608.6
-57.5°	57.2	84.3	118.9	158.8	205.2	253.3	299.3	347.3	403.9	465.4	525.2
-60°	42.9	62.3	88.5	122.2	159.6	204.0	249.8	294.2	339.1	384.5	437.4
-62.5°	29.8	44.9	63.0	86.3	118.4	153.1	193.2	235.5	278.4	317.4	356.0
-65°	25.0	30.1	42.6	59.6	77.6	106.9	139.1	172.9	210.5	244.2	278.9
-67.5°	20.0	24.6	29.2	35.9	51.4	68.4	86.6	115.1	144.5	168.7	193.6
-70°	17.5	19.5	23.2	27.2	31.1	38.0	52.8	68.7	84.5	100.3	120.7
-72.5°	15.3	17.1	18.9	20.9	24.2	27.4	30.8	34.1	43.0	55.1	66.2
-75°	13.5	14.6	16.1	17.7	19.3	20.8	22.5	25.2	28.0	30.8	33.6
-77.5°	11.8	12.7	13.6	14.6	15.8	17.1	18.4	19.6	20.7	21.8	23.0
-80°	10.1	10.7	11.3	12.0	12.8	13.7	14.6	15.5	16.3	17.0	17.7
-82.5°	8.5	8.9	9.3	9.7	10.1	10.4	10.8	11.4	11.9	12.4	12.9
-85°	6.8	7.1	7.4	7.6	7.9	8.1	8.4	8.6	8.8	9.0	9.2
-87.5°	5.4	5.6	5.9	6.1	6.2	6.2	6.3	6.4	6.5	6.5	6.6
-90°	2.1	1.8	1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	4.7	5.0	5.3	5.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.6	1.5	1.5	1.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	2.6	2.4	2.3	2.1	1.9	1.8	1.7	1.5	1.2	1.2	1.2
75°	3.5	3.5	3.6	3.4	3.1	2.8	2.6	2.4	2.2	2.2	2.3
72.5°	6.3	6.3	6.0	6.0	5.6	5.5	5.5	5.4	5.2	5.3	5.5
70°	12.1	12.4	12.2	11.4	10.2	9.2	8.7	8.0	7.1	7.0	7.4
67.5°	19.1	18.2	17.2	15.8	13.7	11.9	10.9	10.0	9.2	9.0	9.2
65°	24.4	20.7	18.1	16.1	14.4	12.7	11.5	10.4	9.3	8.6	8.5
62.5°	23.5	19.3	16.5	14.6	13.0	11.7	10.2	8.9	7.5	6.7	6.7
60°	22.1	17.4	13.8	12.0	10.6	9.6	8.3	7.2	6.4	5.9	6.0
57.5°	18.8	13.7	10.5	9.7	8.7	7.6	6.8	6.3	6.1	5.9	5.9
55°	14.5	11.6	9.7	8.6	7.6	6.6	5.9	6.1	6.1	5.9	6.2
52.5°	12.0	10.3	8.9	7.9	7.4	7.1	7.0	7.0	7.1	7.3	7.5
50°	10.7	9.5	8.9	8.2	8.2	8.2	8.2	8.6	8.9	9.0	8.9
47.5°	10.8	10.3	10.8	9.4	9.7	10.6	10.6	10.7	11.5	11.7	11.6
45°	13.6	16.4	16.4	15.1	14.3	17.5	17.7	16.0	24.6	24.1	18.3
42.5°	24.2	25.8	25.9	27.4	30.4	39.9	57.6	73.6	76.0	66.8	45.8
40°	39.1	37.8	40.8	48.9	72.5	94.1	110.4	159.1	158.7	124.2	125.1
37.5°	63.7	62.2	66.8	91.5	99.2	85.8	120.8	124.1	106.3	126.7	128.5
35°	109.6	124.3	108.3	134.5	135.8	121.4	130.3	145.5	124.0	148.4	159.0
32.5°	199.8	225.7	228.2	226.1	239.6	252.8	245.1	281.8	288.4	312.8	339.6
30°	324.7	374.5	412.5	405.2	427.6	466.8	479.6	535.7	591.7	626.4	711.4
27.5°	565.8	591.0	669.0	723.9	711.2	775.3	902.5	941.8	1102.2	1179.0	1289.7
25°	896.0	940.6	1051.8	1182.2	1238.1	1345.4	1552.0	1650.9	1861.6	1969.2	2374.8
22.5°	1305.1	1456.2	1595.7	1771.0	2022.3	2235.8	2465.5	2851.6	3478.8	4379.9	5455.7
20°	1772.1	2025.4	2236.4	2560.0	2976.7	3378.4	3972.5	5685.5	7504.9	11299.8	13878.1
17.5°	2213.9	2616.1	2910.9	3340.7	3956.2	4961.4	7008.0	10837.1	16854.9	24206.3	31223.7
15°	2558.7	2969.8	3516.2	4164.9	5105.1	7072.1	10810.5	18379.0	29852.5	41054.4	52840.6
12.5°	2850.1	3284.9	3883.7	4762.5	6168.7	9704.3	16426.0	27827.0	42951.9	59627.9	77247.8
10°	3037.6	3565.6	4282.8	5443.4	7780.0	12803.3	21541.8	36819.3	57149.7	78921.9	98505.9
7.5°	3070.6	3714.8	4623.3	6035.0	9378.9	16036.1	27626.5	45598.7	67864.6	92386.4	117050.9
5°	3083.7	3853.8	4911.1	6499.8	10477.3	18374.5	31131.7	51223.3	75946.6	101130.8	127675.7
2.5°	3119.0	3990.3	5122.3	6824.9	11111.0	19769.0	33157.3	55252.3	81335.3	108682.3	138278.3
0°	3192.2	4133.2	5168.0	6880.3	11243.8	19798.5	34325.8	57560.9	84849.7	112479.1	143349.3
-2.5°	3231.8	4114.9	5129.5	6767.4	11072.6	19801.6	33202.9	55954.7	83017.1	109974.4	141082.7
-5°	3163.7	3931.1	4892.1	6426.2	10323.6	18218.1	30972.1	51807.3	76785.8	101023.4	126038.7
-7.5°	3017.4	3672.6	4554.8	5941.8	9162.0	15763.5	26940.1	44048.6	65259.2	86330.4	105819.4
-10°	2847.0	3398.6	4122.1	5238.7	7520.6	12464.2	21079.2	34540.6	52759.4	70848.2	87295.1
-12.5°	2663.1	3092.7	3628.4	4400.6	5821.2	9411.2	15975.3	26292.8	38890.5	52536.3	67475.3
-15°	2505.9	2822.6	3228.7	3886.4	4970.0	7011.2	10723.5	17589.4	26622.8	37320.5	48332.7
-17.5°	2400.3	2635.7	2989.4	3491.1	4157.2	5369.6	8056.4	12127.1	17939.5	25946.0	33218.9
-20°	2324.5	2545.9	2826.5	3221.6	3779.4	4634.2	5948.9	8754.5	12579.3	17768.8	22705.6



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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°	2270.4	2469.6	2706.8	3024.7	3522.9	4190.8	5030.0	6391.7	8800.4	11860.7	15292.8
-25°	2217.2	2382.4	2644.0	2985.8	3328.2	3806.2	4386.2	5054.7	6338.0	7698.6	9805.3
-27.5°	2156.3	2360.7	2653.0	2972.3	3280.8	3518.1	3929.8	4390.9	5070.3	5728.1	6810.4
-30°	2112.0	2373.4	2664.2	2971.0	3208.8	3418.5	3648.7	4001.1	4440.7	4905.6	5403.2
-32.5°	1891.2	2334.5	2632.9	2908.1	3104.7	3299.6	3503.5	3748.0	4029.1	4323.6	4625.8
-35°	1595.5	2067.5	2530.5	2746.2	2945.5	3142.0	3354.7	3552.7	3751.0	3950.2	4140.0
-37.5°	1232.9	1695.5	2132.9	2509.7	2738.5	2938.7	3165.4	3368.7	3542.6	3692.3	3838.4
-40°	1077.1	1238.6	1661.7	2058.3	2391.3	2708.4	2922.1	3147.3	3341.2	3479.3	3603.3
-42.5°	1034.2	1125.2	1218.9	1523.1	1890.7	2216.6	2506.6	2788.2	3054.8	3246.8	3394.3
-45°	996.9	1074.0	1154.3	1244.0	1333.6	1619.3	1920.8	2224.2	2538.0	2818.9	3046.3
-47.5°	928.1	1021.3	1100.5	1174.7	1245.9	1327.2	1411.2	1532.1	1807.5	2088.5	2344.7
-50°	843.0	930.4	1018.6	1106.4	1172.4	1234.8	1298.6	1370.7	1451.0	1532.9	1601.9
-52.5°	750.3	830.7	912.1	989.6	1063.5	1135.3	1205.4	1268.9	1328.7	1386.4	1420.4
-55°	675.1	739.4	803.5	869.9	937.3	1003.0	1068.2	1133.9	1197.2	1257.7	1291.4
-57.5°	587.2	651.4	712.8	763.4	815.6	869.0	924.8	981.5	1037.0	1088.7	1117.7
-60°	491.9	547.5	600.7	649.8	698.3	745.6	791.3	836.2	879.4	916.9	939.7
-62.5°	396.0	441.3	485.4	527.1	567.8	607.8	650.5	691.1	729.2	760.1	779.1
-65°	314.2	348.7	379.4	409.4	439.1	473.3	509.7	544.1	576.5	601.6	618.3
-67.5°	222.5	252.2	280.3	307.1	331.7	356.1	382.0	407.3	431.6	450.5	463.9
-70°	140.2	159.0	177.5	197.3	218.9	240.3	261.6	281.3	299.2	312.7	322.9
-72.5°	76.4	85.5	94.9	108.9	122.4	136.7	151.4	165.2	178.2	187.3	194.0
-75°	36.3	40.3	47.6	54.1	59.9	66.2	72.5	78.4	83.7	86.5	88.1
-77.5°	24.8	26.8	28.7	30.3	31.7	33.6	35.6	37.7	39.7	41.0	42.0
-80°	18.5	19.3	20.1	20.9	21.7	22.6	23.4	24.2	24.9	25.6	26.2
-82.5°	13.4	13.8	14.2	14.6	14.9	15.5	16.1	16.7	17.2	17.6	18.1
-85°	9.4	9.7	9.9	10.1	10.2	10.6	10.9	11.3	11.6	11.7	11.8
-87.5°	6.7	7.0	7.4	7.7	8.1	8.1	8.2	8.2	8.2	8.2	8.3
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6



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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°	5.9	5.9	6.5	7.1	6.5	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	0.3	0.0	0.6	1.2	0.6	0.0	0.3	0.6	0.9	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.2	1.8	2.4	1.8	1.2	1.2	1.2	1.2	1.2	1.5
75°	2.3	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.2	2.2	2.4
72.5°	5.7	5.8	5.9	5.9	5.9	5.8	5.7	5.5	5.3	5.2	5.4
70°	7.8	8.2	8.3	8.3	8.3	8.2	7.8	7.4	7.0	7.1	8.0
67.5°	9.4	9.5	9.5	9.5	9.5	9.5	9.4	9.2	9.0	9.2	10.0
65°	8.4	8.3	7.8	7.1	7.8	8.3	8.4	8.5	8.6	9.3	10.4
62.5°	6.9	7.1	7.1	7.1	7.1	7.1	6.9	6.7	6.7	7.5	8.9
60°	6.0	6.0	5.9	5.9	5.9	6.0	6.0	6.0	5.9	6.4	7.2
57.5°	5.9	5.9	6.4	7.1	6.4	5.9	5.9	5.9	5.9	6.1	6.3
55°	6.5	6.9	7.1	7.1	7.1	6.9	6.5	6.2	5.9	6.1	6.1
52.5°	7.5	7.2	7.1	7.1	7.1	7.2	7.5	7.5	7.3	7.1	7.0
50°	8.7	8.4	8.3	8.3	8.3	8.4	8.7	8.9	9.0	8.9	8.6
47.5°	11.4	10.9	10.7	10.7	10.7	10.9	11.4	11.6	11.7	11.5	10.7
45°	18.7	18.8	18.8	19.0	18.8	18.8	18.7	18.3	24.1	24.6	16.0
42.5°	44.0	38.0	32.9	33.2	32.9	38.0	44.0	45.8	66.8	76.0	73.6
40°	112.7	84.3	56.1	47.5	56.1	84.3	112.7	125.1	124.2	158.7	159.1
37.5°	116.1	118.4	139.3	187.5	139.3	118.4	116.1	128.5	126.7	106.3	124.1
35°	162.3	164.8	158.9	155.5	158.9	164.8	162.3	159.0	148.4	124.0	145.5
32.5°	345.0	360.3	358.4	348.9	358.4	360.3	345.0	339.6	312.8	288.4	281.8
30°	743.1	781.9	777.8	785.6	777.8	781.9	743.1	711.4	626.4	591.7	535.7
27.5°	1333.6	1381.6	1390.4	1380.1	1390.4	1381.6	1333.6	1289.7	1179.0	1102.2	941.8
25°	2647.2	2723.1	2695.4	2659.3	2695.4	2723.1	2647.2	2374.8	1969.2	1861.6	1650.9
22.5°	6713.4	7014.0	6983.1	6729.6	6983.1	7014.0	6713.4	5455.7	4379.9	3478.8	2851.6
20°	18444.6	20429.3	21293.0	20122.5	21293.0	20429.3	18444.6	13878.1	11299.8	7504.9	5685.5
17.5°	39040.5	45087.6	49387.2	51181.3	49387.2	45087.6	39040.5	31223.7	24206.3	16854.9	10837.1
15°	63860.2	72963.0	78257.0	77545.7	78257.0	72963.0	63860.2	52840.6	41054.4	29852.5	18379.0
12.5°	91827.9	102616.9	111558.0	111747.5	111558.0	102616.9	91827.9	77247.8	59627.9	42951.9	27827.0
10°	118879.8	133853.9	146057.5	148422.3	146057.5	133853.9	118879.8	98505.9	78921.9	57149.7	36819.3
7.5°	139174.8	162129.8	177448.8	183062.0	177448.8	162129.8	139174.8	117050.9	92386.4	67864.6	45598.7
5°	159231.1	183284.3	198893.4	201662.6	198893.4	183284.3	159231.1	127675.7	101130.8	75946.6	51223.3
2.5°	172758.7	197022.0	210681.3	220155.8	210681.3	197022.0	172758.7	138278.3	108682.3	81335.3	55252.3
0°	180682.7	200452.2	223054.2	233555.7	223054.2	200452.2	180682.7	143349.3	112479.1	84849.7	57560.9
-2.5°	174691.5	196931.7	209871.7	221805.2	209871.7	196931.7	174691.5	141082.7	109974.4	83017.1	55954.7
-5°	154849.3	179036.7	190468.6	191960.3	190468.6	179036.7	154849.3	126038.7	101023.4	76785.8	51807.3
-7.5°	126530.1	149050.4	160026.3	166085.4	160026.3	149050.4	126530.1	105819.4	86330.4	65259.2	44048.6
-10°	102427.4	115569.9	122958.6	123445.2	122958.6	115569.9	102427.4	87295.1	70848.2	52759.4	34540.6
-12.5°	79079.4	87894.8	92264.9	92105.1	92264.9	87894.8	79079.4	67475.3	52536.3	38890.5	26292.8
-15°	58029.8	64878.5	68820.3	70710.5	68820.3	64878.5	58029.8	48332.7	37320.5	26622.8	17589.4
-17.5°	40959.3	46400.0	50349.9	51945.6	50349.9	46400.0	40959.3	33218.9	25946.0	17939.5	12127.1
-20°	27923.3	31652.1	34214.6	35302.4	34214.6	31652.1	27923.3	22705.6	17768.8	12579.3	8754.5



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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°	18392.7	20892.5	22649.4	22555.2	22649.4	20892.5	18392.7	15292.8	11860.7	8800.4	6391.7
-25°	11725.1	13099.5	14002.0	14075.2	14002.0	13099.5	11725.1	9805.3	7698.6	6338.0	5054.7
-27.5°	7760.4	8364.7	8728.8	8792.1	8728.8	8364.7	7760.4	6810.4	5728.1	5070.3	4390.9
-30°	5873.6	6151.7	6359.9	6351.1	6359.9	6151.7	5873.6	5403.2	4905.6	4440.7	4001.1
-32.5°	4882.9	5019.8	5110.9	5184.6	5110.9	5019.8	4882.9	4625.8	4323.6	4029.1	3748.0
-35°	4270.2	4339.8	4390.7	4437.0	4390.7	4339.8	4270.2	4140.0	3950.2	3751.0	3552.7
-37.5°	3922.4	3970.6	4002.5	4013.3	4002.5	3970.6	3922.4	3838.4	3692.3	3542.6	3368.7
-40°	3650.7	3677.9	3694.0	3703.6	3694.0	3677.9	3650.7	3603.3	3479.3	3341.2	3147.3
-42.5°	3446.9	3484.1	3503.4	3503.1	3503.4	3484.1	3446.9	3394.3	3246.8	3054.8	2788.2
-45°	3176.7	3271.0	3328.1	3352.4	3328.1	3271.0	3176.7	3046.3	2818.9	2538.0	2224.2
-47.5°	2554.7	2733.7	2859.2	2925.2	2859.2	2733.7	2554.7	2344.7	2088.5	1807.5	1532.1
-50°	1664.0	1723.8	1749.0	1738.5	1749.0	1723.8	1664.0	1601.9	1532.9	1451.0	1370.7
-52.5°	1445.5	1467.0	1480.0	1485.7	1480.0	1467.0	1445.5	1420.4	1386.4	1328.7	1268.9
-55°	1319.9	1343.7	1359.1	1367.1	1359.1	1343.7	1319.9	1291.4	1257.7	1197.2	1133.9
-57.5°	1141.9	1161.2	1172.9	1178.4	1172.9	1161.2	1141.9	1117.7	1088.7	1037.0	981.5
-60°	959.1	974.9	985.3	990.9	985.3	974.9	959.1	939.7	916.9	879.4	836.2
-62.5°	794.4	806.1	816.3	823.6	816.3	806.1	794.4	779.1	760.1	729.2	691.1
-65°	631.8	642.2	649.6	653.9	649.6	642.2	631.8	618.3	601.6	576.5	544.1
-67.5°	474.8	483.3	490.3	494.8	490.3	483.3	474.8	463.9	450.5	431.6	407.3
-70°	331.2	337.4	343.5	347.7	343.5	337.4	331.2	322.9	312.7	299.2	281.3
-72.5°	199.4	203.3	205.1	205.3	205.1	203.3	199.4	194.0	187.3	178.2	165.2
-75°	89.0	89.2	91.1	92.6	91.1	89.2	89.0	88.1	86.5	83.7	78.4
-77.5°	42.9	43.6	44.4	45.1	44.4	43.6	42.9	42.0	41.0	39.7	37.7
-80°	26.7	27.2	27.3	27.3	27.3	27.2	26.7	26.2	25.6	24.9	24.2
-82.5°	18.5	18.9	19.0	19.0	19.0	18.9	18.5	18.1	17.6	17.2	16.7
-85°	11.8	11.9	11.9	11.9	11.9	11.9	11.8	11.8	11.7	11.6	11.3
-87.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.2	8.2	8.2
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.9	1.2	1.2



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	5.9	5.9	5.9	5.6	5.3	5.0	4.7	4.7	4.7	4.7	4.7
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.4	1.4	1.4
80°	1.2	1.2	1.2	1.4	1.5	1.5	1.6	1.8	1.9	2.1	2.2
77.5°	1.7	1.8	1.9	2.1	2.3	2.4	2.6	2.7	2.9	3.0	3.0
75°	2.6	2.8	3.1	3.4	3.6	3.5	3.5	3.4	3.4	3.5	3.5
72.5°	5.5	5.5	5.6	6.0	6.0	6.3	6.3	5.9	5.2	4.3	3.6
70°	8.7	9.2	10.2	11.4	12.2	12.4	12.1	11.2	9.6	8.4	6.7
67.5°	10.9	11.9	13.7	15.8	17.2	18.2	19.1	19.3	18.4	16.6	12.0
65°	11.5	12.7	14.4	16.1	18.1	20.7	24.4	26.2	26.3	25.0	19.3
62.5°	10.2	11.7	13.0	14.6	16.5	19.3	23.5	27.3	30.9	31.9	25.9
60°	8.3	9.6	10.6	12.0	13.8	17.4	22.1	26.5	30.8	31.0	29.1
57.5°	6.8	7.6	8.7	9.7	10.5	13.7	18.8	25.0	30.1	29.2	28.0
55°	5.9	6.6	7.6	8.6	9.7	11.6	14.5	19.1	24.7	26.6	25.6
52.5°	7.0	7.1	7.4	7.9	8.9	10.3	12.0	15.2	18.0	20.6	22.3
50°	8.2	8.2	8.2	8.2	8.9	9.5	10.7	12.5	14.4	16.5	18.2
47.5°	10.6	10.6	9.7	9.4	10.8	10.3	10.8	11.6	13.4	14.0	15.7
45°	17.7	17.5	14.3	15.1	16.4	16.4	13.6	14.8	14.9	15.0	14.2
42.5°	57.6	39.9	30.4	27.4	25.9	25.8	24.2	22.6	21.0	18.6	18.7
40°	110.4	94.1	72.5	48.9	40.8	37.8	39.1	34.1	30.7	26.7	27.8
37.5°	120.8	85.8	99.2	91.5	66.8	62.2	63.7	54.6	42.6	49.8	48.6
35°	130.3	121.4	135.8	134.5	108.3	124.3	109.6	88.6	78.3	89.4	80.6
32.5°	245.1	252.8	239.6	226.1	228.2	225.7	199.8	149.9	151.4	150.6	132.5
30°	479.6	466.8	427.6	405.2	412.5	374.5	324.7	315.6	277.9	228.0	198.9
27.5°	902.5	775.3	711.2	723.9	669.0	591.0	565.8	549.4	448.8	355.5	283.7
25°	1552.0	1345.4	1238.1	1182.2	1051.8	940.6	896.0	834.8	705.3	520.3	394.8
22.5°	2465.5	2235.8	2022.3	1771.0	1595.7	1456.2	1305.1	1159.5	1006.3	757.9	563.2
20°	3972.5	3378.4	2976.7	2560.0	2236.4	2025.4	1772.1	1523.3	1312.2	1057.5	757.1
17.5°	7008.0	4961.4	3956.2	3340.7	2910.9	2616.1	2213.9	1847.2	1605.4	1376.7	964.6
15°	10810.5	7072.1	5105.1	4164.9	3516.2	2969.8	2558.7	2136.5	1887.1	1668.6	1214.7
12.5°	16426.0	9704.3	6168.7	4762.5	3883.7	3284.9	2850.1	2438.7	2115.1	1819.3	1393.2
10°	21541.8	12803.3	7780.0	5443.4	4282.8	3565.6	3037.6	2554.9	2177.2	1899.0	1541.9
7.5°	27626.5	16036.1	9378.9	6035.0	4623.3	3714.8	3070.6	2570.7	2214.0	1955.6	1662.0
5°	31131.7	18374.5	10477.3	6499.8	4911.1	3853.8	3083.7	2542.5	2228.7	1992.3	1754.6
2.5°	33157.3	19769.0	11111.0	6824.9	5122.3	3990.3	3119.0	2546.7	2246.6	2016.6	1790.2
0°	34325.8	19798.5	11243.8	6880.3	5168.0	4133.2	3192.2	2589.3	2261.8	2031.6	1802.6
-2.5°	33202.9	19801.6	11072.6	6767.4	5129.5	4114.9	3231.8	2635.4	2298.2	2040.2	1797.7
-5°	30972.1	18218.1	10323.6	6426.2	4892.1	3931.1	3163.7	2617.7	2289.3	2027.8	1772.0
-7.5°	26940.1	15763.5	9162.0	5941.8	4554.8	3672.6	3017.4	2526.3	2203.5	1958.2	1691.3
-10°	21079.2	12464.2	7520.6	5238.7	4122.1	3398.6	2847.0	2410.0	2106.9	1880.9	1595.5
-12.5°	15975.3	9411.2	5821.2	4400.6	3628.4	3092.7	2663.1	2284.6	2000.8	1797.6	1487.4
-15°	10723.5	7011.2	4970.0	3886.4	3228.7	2822.6	2505.9	2205.6	1962.3	1734.1	1369.6
-17.5°	8056.4	5369.6	4157.2	3491.1	2989.4	2635.7	2400.3	2166.1	1941.5	1683.5	1260.4
-20°	5948.9	4634.2	3779.4	3221.6	2826.5	2545.9	2324.5	2131.2	1908.2	1559.8	1127.8



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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°	5030.0	4190.8	3522.9	3024.7	2706.8	2469.6	2270.4	2086.5	1860.3	1396.5	981.3
-25°	4386.2	3806.2	3328.2	2985.8	2644.0	2382.4	2217.2	2026.5	1676.1	1212.9	844.2
-27.5°	3929.8	3518.1	3280.8	2972.3	2653.0	2360.7	2156.3	1932.2	1466.7	1043.7	830.3
-30°	3648.7	3418.5	3208.8	2971.0	2664.2	2373.4	2112.0	1687.2	1253.0	899.9	820.2
-32.5°	3503.5	3299.6	3104.7	2908.1	2632.9	2334.5	1891.2	1424.6	1012.8	883.2	802.2
-35°	3354.7	3142.0	2945.5	2746.2	2530.5	2067.5	1595.5	1144.5	943.6	858.8	778.2
-37.5°	3165.4	2938.7	2738.5	2509.7	2132.9	1695.5	1232.9	1013.6	914.7	827.1	740.3
-40°	2922.1	2708.4	2391.3	2058.3	1661.7	1238.6	1077.1	978.7	885.9	785.2	694.1
-42.5°	2506.6	2216.6	1890.7	1523.1	1218.9	1125.2	1034.2	946.0	847.8	741.3	646.1
-45°	1920.8	1619.3	1333.6	1244.0	1154.3	1074.0	996.9	898.2	793.8	692.1	596.7
-47.5°	1411.2	1327.2	1245.9	1174.7	1100.5	1021.3	928.1	833.1	731.6	636.9	556.4
-50°	1298.6	1234.8	1172.4	1106.4	1018.6	930.4	843.0	755.4	666.6	587.8	511.8
-52.5°	1205.4	1135.3	1063.5	989.6	912.1	830.7	750.3	681.1	608.0	533.0	462.6
-55°	1068.2	1003.0	937.3	869.9	803.5	739.4	675.1	608.6	540.2	471.7	406.9
-57.5°	924.8	869.0	815.6	763.4	712.8	651.4	587.2	525.2	465.4	403.9	347.3
-60°	791.3	745.6	698.3	649.8	600.7	547.5	491.9	437.4	384.5	339.1	294.2
-62.5°	650.5	607.8	567.8	527.1	485.4	441.3	396.0	356.0	317.4	278.4	235.5
-65°	509.7	473.3	439.1	409.4	379.4	348.7	314.2	278.9	244.2	210.5	172.9
-67.5°	382.0	356.1	331.7	307.1	280.3	252.2	222.5	193.6	168.7	144.5	115.1
-70°	261.6	240.3	218.9	197.3	177.5	159.0	140.2	120.7	100.3	84.5	68.7
-72.5°	151.4	136.7	122.4	108.9	94.9	85.5	76.4	66.2	55.1	43.0	34.1
-75°	72.5	66.2	59.9	54.1	47.6	40.3	36.3	33.6	30.8	28.0	25.2
-77.5°	35.6	33.6	31.7	30.3	28.7	26.8	24.8	23.0	21.8	20.7	19.6
-80°	23.4	22.6	21.7	20.9	20.1	19.3	18.5	17.7	17.0	16.3	15.5
-82.5°	16.1	15.5	14.9	14.6	14.2	13.8	13.4	12.9	12.4	11.9	11.4
-85°	10.9	10.6	10.2	10.1	9.9	9.7	9.4	9.2	9.0	8.8	8.6
-87.5°	8.2	8.1	8.1	7.7	7.4	7.0	6.7	6.6	6.5	6.5	6.4
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2





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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°	4.7	4.7	4.7	4.7	4.4	4.2	3.9	3.6	3.6	3.6	3.6
87.5°	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.4	2.4	2.4
85°	1.3	1.4	1.4	1.4	1.6	1.8	2.1	2.4	2.4	2.4	2.4
82.5°	1.5	1.8	2.0	2.1	2.1	2.1	2.2	2.4	2.4	2.4	2.4
80°	2.1	2.2	2.3	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6
77.5°	2.7	2.5	2.4	2.4	2.4	2.4	2.4	2.5	2.7	2.9	2.9
75°	3.2	2.8	2.5	2.4	2.5	2.4	2.4	2.5	2.8	3.1	3.2
72.5°	3.5	3.2	2.8	2.5	2.7	2.7	2.6	2.5	2.8	3.1	3.4
70°	5.1	3.9	3.4	3.1	3.1	3.1	3.1	2.9	2.9	3.1	3.4
67.5°	7.8	5.9	4.5	3.7	3.4	3.4	3.5	3.3	3.1	3.2	3.5
65°	13.9	9.3	5.8	4.6	3.9	3.6	3.6	3.6	3.4	3.3	3.5
62.5°	19.8	13.9	9.5	6.1	4.4	3.8	3.6	3.7	3.6	3.5	3.5
60°	25.9	19.3	13.5	9.5	6.0	3.9	3.7	3.9	3.8	3.6	3.6
57.5°	26.1	24.0	19.0	13.3	8.8	5.2	3.9	4.1	4.1	3.8	3.6
55°	24.9	23.7	22.7	18.1	12.2	7.6	4.8	4.4	4.3	4.1	3.7
52.5°	22.1	23.3	23.5	21.5	16.3	10.3	7.0	4.7	4.7	4.4	3.9
50°	19.2	22.3	24.1	23.1	19.9	14.2	9.0	6.3	5.0	4.7	4.3
47.5°	18.0	21.7	24.2	24.7	22.1	18.0	12.1	7.9	5.4	5.1	4.6
45°	18.2	21.2	24.4	25.7	24.5	20.7	15.4	9.3	6.7	5.5	4.9
42.5°	19.6	22.3	24.4	27.1	26.1	22.9	18.6	12.0	7.8	5.9	5.2
40°	26.6	24.8	25.4	28.3	28.0	24.9	20.7	14.8	8.8	6.4	5.5
37.5°	36.1	31.6	28.7	32.4	30.9	27.1	22.5	17.4	10.2	7.2	5.8
35°	61.5	42.4	42.1	42.3	36.8	29.7	24.3	19.6	12.6	7.9	6.1
32.5°	93.9	73.0	71.2	59.2	44.8	32.6	26.4	21.5	15.0	8.6	6.4
30°	156.4	140.6	111.3	81.1	57.4	40.3	29.5	23.5	17.4	9.2	6.7
27.5°	259.1	223.8	165.7	118.1	78.5	50.1	33.9	25.6	19.8	10.2	7.2
25°	365.3	320.2	246.4	165.6	102.9	70.0	38.8	27.8	21.7	12.1	7.7
22.5°	468.1	420.5	337.6	219.5	138.6	95.5	49.6	31.7	23.4	13.9	8.1
20°	568.3	523.3	430.9	268.7	180.5	126.8	68.3	35.8	25.0	15.6	8.4
17.5°	678.8	602.3	483.3	326.3	222.1	158.3	89.8	40.2	26.7	17.2	8.7
15°	814.6	649.1	533.8	377.5	259.1	189.7	113.5	44.7	28.3	18.7	9.1
12.5°	936.2	692.3	583.6	422.4	291.8	220.8	138.5	49.3	29.8	20.5	9.6
10°	1050.4	732.1	631.6	461.1	320.7	251.2	164.1	54.3	32.2	22.4	10.1
7.5°	1154.7	768.4	676.8	493.9	344.4	272.0	179.9	60.5	34.7	24.2	10.6
5°	1239.8	797.3	708.3	516.2	356.1	282.1	191.4	66.5	37.2	25.8	11.1
2.5°	1279.8	817.1	727.7	533.0	365.9	289.9	199.8	72.1	39.4	27.3	11.5
0°	1300.6	834.2	740.5	544.7	373.8	295.5	205.3	77.1	41.5	28.5	11.9
-2.5°	1303.6	838.0	743.7	556.6	386.3	303.6	212.6	90.8	52.2	35.0	15.6
-5°	1287.3	838.5	741.4	563.3	396.2	309.4	217.4	103.7	62.4	41.2	19.1
-7.5°	1231.4	825.9	728.7	563.9	403.4	313.0	220.2	115.5	72.0	46.8	22.5
-10°	1152.6	803.7	704.2	554.3	410.1	318.1	222.6	126.2	80.8	51.8	25.5
-12.5°	1056.3	778.8	679.0	542.7	415.1	324.9	230.0	136.9	88.6	56.0	28.1
-15°	943.0	751.3	654.6	530.1	418.1	330.5	235.3	146.4	95.7	59.8	30.1
-17.5°	818.5	721.3	632.4	517.3	419.1	335.0	238.3	153.6	101.6	63.1	32.1
-20°	790.9	703.4	612.9	505.1	418.4	338.6	239.3	158.4	106.3	65.3	33.8



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	780.3	695.4	600.2	499.6	417.4	341.5	238.1	160.6	109.6	66.4	34.7
-25°	769.4	685.7	585.9	491.8	417.2	337.5	237.4	159.9	111.4	66.2	34.9
-27.5°	756.5	672.1	568.1	479.4	408.7	331.2	235.9	161.4	111.5	64.6	34.2
-30°	741.9	649.0	550.1	464.0	397.2	314.3	230.5	161.2	109.5	63.2	32.7
-32.5°	721.2	622.4	527.7	448.9	378.3	295.9	218.6	158.9	105.7	61.3	31.6
-35°	686.1	591.7	500.5	430.3	356.1	278.5	206.0	154.5	100.0	58.2	30.2
-37.5°	647.1	556.7	476.8	406.9	333.0	259.4	196.3	144.6	92.5	53.7	28.1
-40°	606.1	522.7	450.5	380.8	310.0	238.8	184.5	132.4	85.5	48.0	25.3
-42.5°	562.7	490.8	421.5	353.9	285.7	223.3	170.4	118.3	76.5	43.1	21.8
-45°	524.5	456.1	390.0	324.7	260.8	205.8	152.8	103.1	66.0	38.2	18.9
-47.5°	483.5	419.5	355.8	293.1	238.5	185.3	133.0	89.7	54.3	32.3	17.7
-50°	441.5	379.8	318.7	263.3	212.9	160.9	112.6	74.8	46.2	25.3	16.2
-52.5°	397.0	336.8	282.6	232.9	182.8	134.4	93.9	59.2	37.4	21.6	14.5
-55°	346.8	295.1	246.7	197.7	150.0	109.8	73.6	48.3	27.9	19.2	12.7
-57.5°	299.3	253.3	205.2	158.8	118.9	84.3	57.2	36.6	23.4	16.7	12.0
-60°	249.8	204.0	159.6	122.2	88.5	62.3	42.9	27.0	20.3	14.3	11.3
-62.5°	193.2	153.1	118.4	86.3	63.0	44.9	29.8	23.2	16.9	13.4	10.5
-65°	139.1	106.9	77.6	59.6	42.6	30.1	25.0	19.1	15.2	12.3	9.7
-67.5°	86.6	68.4	51.4	35.9	29.2	24.6	20.0	16.7	13.9	11.2	9.2
-70°	52.8	38.0	31.1	27.2	23.2	19.5	17.5	15.1	12.5	10.4	8.6
-72.5°	30.8	27.4	24.2	20.9	18.9	17.1	15.3	13.4	11.5	9.6	7.9
-75°	22.5	20.8	19.3	17.7	16.1	14.6	13.5	12.2	10.4	8.8	7.2
-77.5°	18.4	17.1	15.8	14.6	13.6	12.7	11.8	10.9	9.3	7.9	6.5
-80°	14.6	13.7	12.8	12.0	11.3	10.7	10.1	9.5	8.1	6.9	5.8
-82.5°	10.8	10.4	10.1	9.7	9.3	8.9	8.5	8.0	6.9	5.9	5.1
-85°	8.4	8.1	7.9	7.6	7.4	7.1	6.8	6.5	5.8	5.2	4.6
-87.5°	6.3	6.2	6.2	6.1	5.9	5.6	5.4	5.1	4.7	4.4	4.1
-90°	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.4	2.4	2.4



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	3.6	3.6	3.6	3.6	3.6	3.0	2.4
87.5°	2.4	2.5	2.5	2.5	2.5	2.5	2.4
85°	2.4	2.5	2.6	2.6	2.6	2.5	2.4
82.5°	2.4	2.6	2.7	2.8	2.7	2.6	2.4
80°	2.5	2.7	2.8	2.9	2.8	2.6	2.4
77.5°	2.8	2.8	2.9	3.0	2.9	2.7	2.4
75°	3.1	3.0	3.1	3.1	3.0	2.7	2.4
72.5°	3.4	3.2	3.2	3.2	3.1	2.8	2.4
70°	3.6	3.4	3.3	3.4	3.2	2.8	2.4
67.5°	3.6	3.5	3.4	3.4	3.3	2.9	2.4
65°	3.6	3.6	3.4	3.4	3.4	2.9	2.4
62.5°	3.6	3.6	3.5	3.5	3.5	3.0	2.4
60°	3.6	3.6	3.6	3.5	3.6	3.0	2.4
57.5°	3.6	3.6	3.6	3.5	3.6	3.0	2.4
55°	3.7	3.6	3.6	3.6	3.6	3.1	2.4
52.5°	3.8	3.6	3.6	3.6	3.6	3.1	2.4
50°	3.9	3.7	3.6	3.6	3.6	3.2	2.4
47.5°	4.1	3.8	3.6	3.6	3.6	3.2	2.4
45°	4.3	3.9	3.6	3.6	3.6	3.2	2.4
42.5°	4.6	4.1	3.6	3.6	3.6	3.3	2.4
40°	4.8	4.2	3.7	3.6	3.6	3.3	2.4
37.5°	5.1	4.4	3.8	3.6	3.6	3.4	2.4
35°	5.3	4.6	3.9	3.6	3.6	3.4	2.4
32.5°	5.6	4.7	4.0	3.6	3.6	3.4	2.4
30°	5.8	4.9	4.1	3.6	3.6	3.4	2.4
27.5°	6.0	5.1	4.2	3.6	3.6	3.5	2.4
25°	6.2	5.3	4.3	3.6	3.6	3.5	2.4
22.5°	6.4	5.4	4.4	3.6	3.6	3.5	2.4
20°	6.6	5.5	4.4	3.6	3.6	3.5	2.4
17.5°	6.8	5.6	4.5	3.6	3.6	3.5	2.4
15°	7.0	5.7	4.5	3.6	3.6	3.6	2.4
12.5°	7.3	5.8	4.6	3.6	3.6	3.6	2.4
10°	7.5	5.8	4.6	3.6	3.6	3.6	2.4
7.5°	7.7	5.8	4.7	3.6	3.6	3.6	2.4
5°	7.9	5.9	4.7	3.6	3.6	3.6	2.4
2.5°	8.1	5.9	4.7	3.6	3.6	3.6	2.4
0°	8.3	5.9	4.7	3.6	3.6	3.6	2.4
-2.5°	9.7	6.4	4.9	3.8	3.6	3.6	2.4
-5°	11.1	6.9	5.1	3.9	3.7	3.6	2.4
-7.5°	12.3	7.4	5.3	4.0	3.7	3.6	2.4
-10°	13.5	7.8	5.5	4.2	3.8	3.6	2.4
-12.5°	14.5	8.2	5.6	4.3	3.8	3.6	2.4
-15°	15.3	8.6	5.8	4.4	3.9	3.6	2.4
-17.5°	15.9	8.8	5.9	4.6	3.9	3.6	2.4
-20°	16.5	9.1	6.1	4.7	3.9	3.5	2.4



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	17.1	9.2	6.2	4.8	4.0	3.5	2.4
-25°	17.2	9.3	6.3	4.8	4.0	3.5	2.4
-27.5°	17.0	9.4	6.4	4.9	4.0	3.5	2.4
-30°	16.3	9.3	6.5	5.0	4.0	3.5	2.4
-32.5°	15.1	9.1	6.5	5.0	4.0	3.5	2.4
-35°	14.5	8.9	6.6	5.0	4.0	3.4	2.4
-37.5°	14.2	8.6	6.6	5.0	4.0	3.4	2.4
-40°	13.6	8.6	6.5	5.0	4.0	3.4	2.4
-42.5°	12.9	8.5	6.5	5.0	4.0	3.4	2.4
-45°	12.0	8.4	6.4	4.9	3.9	3.4	2.4
-47.5°	11.0	8.3	6.3	4.9	3.9	3.4	2.4
-50°	10.6	8.0	6.2	4.8	3.8	3.3	2.4
-52.5°	10.2	7.8	6.1	4.7	3.8	3.3	2.4
-55°	9.8	7.5	5.9	4.6	3.7	3.3	2.4
-57.5°	9.3	7.3	5.8	4.5	3.7	3.3	2.4
-60°	8.7	7.0	5.6	4.4	3.6	3.3	2.4
-62.5°	8.4	6.7	5.4	4.3	3.6	3.2	2.4
-65°	7.9	6.4	5.2	4.2	3.6	3.2	2.4
-67.5°	7.5	6.1	4.9	4.0	3.6	3.2	2.4
-70°	7.0	5.7	4.7	3.9	3.6	3.2	2.4
-72.5°	6.4	5.3	4.4	3.8	3.6	3.2	2.4
-75°	5.9	5.0	4.2	3.8	3.6	3.1	2.4
-77.5°	5.3	4.5	4.1	3.8	3.6	3.1	2.4
-80°	4.7	4.3	4.0	3.7	3.6	3.1	2.4
-82.5°	4.4	4.1	3.9	3.7	3.6	3.1	2.4
-85°	4.2	4.0	3.8	3.7	3.6	3.1	2.4
-87.5°	3.9	3.8	3.7	3.6	3.6	3.0	2.4
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4

(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

