

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: P701320 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-70-2S-CV2-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701320 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320L-40-70-2S-CV2-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 2S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

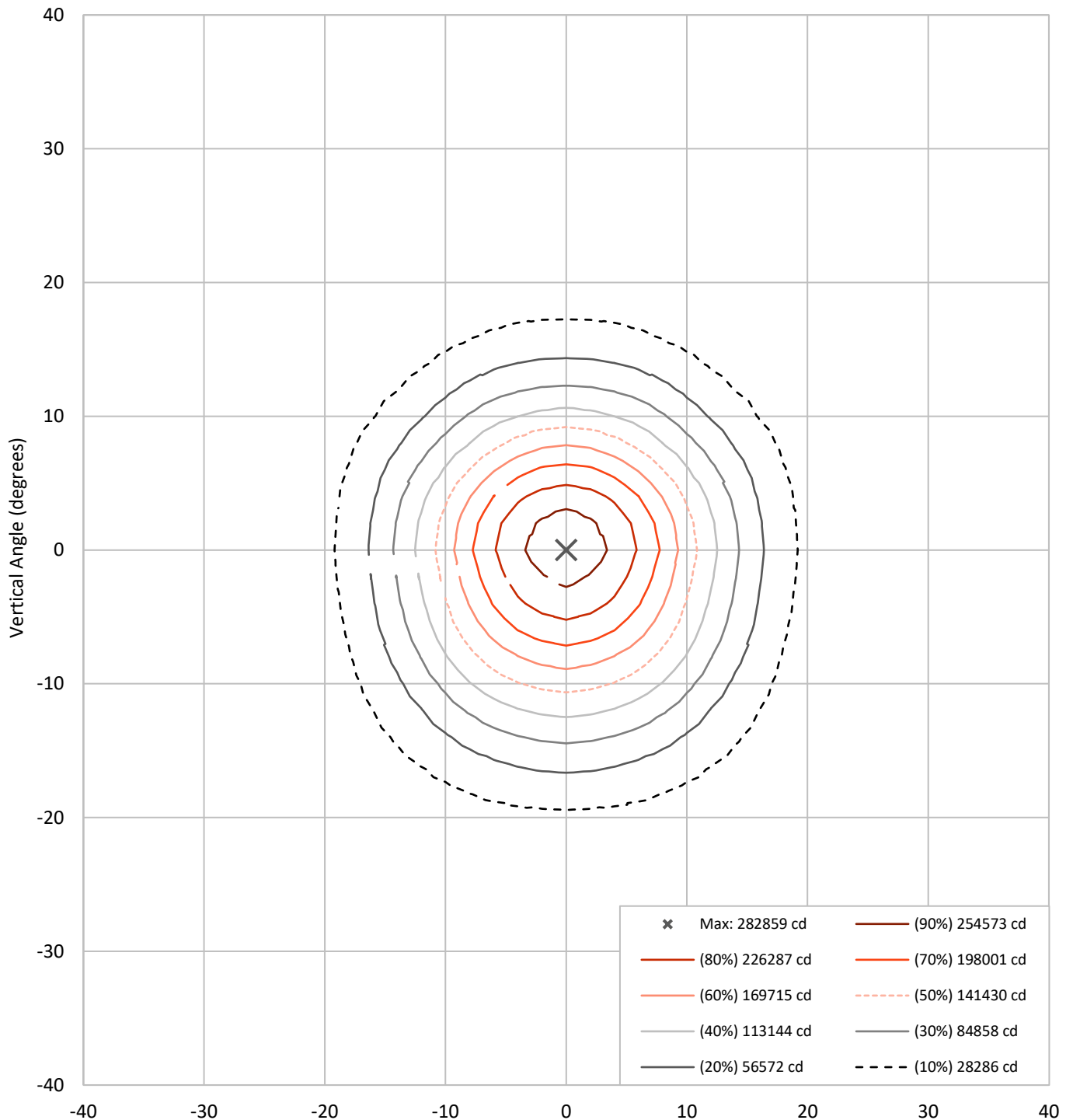
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	43787.2 lumens	Max Intensity:	282859 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	126.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.7°H x 19.8°V	Field Angle (10%):	38.4°H x 36.6°V
Beam Lumens:	20242.4 lumens	Field Lumens:	37761.6 lumens
Beam Efficiency:	46.2%	Field Efficiency:	86.2%

Input Watts (W): 346.9  
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-40-70-2S-CV2-S

### Iso-Candela Plot





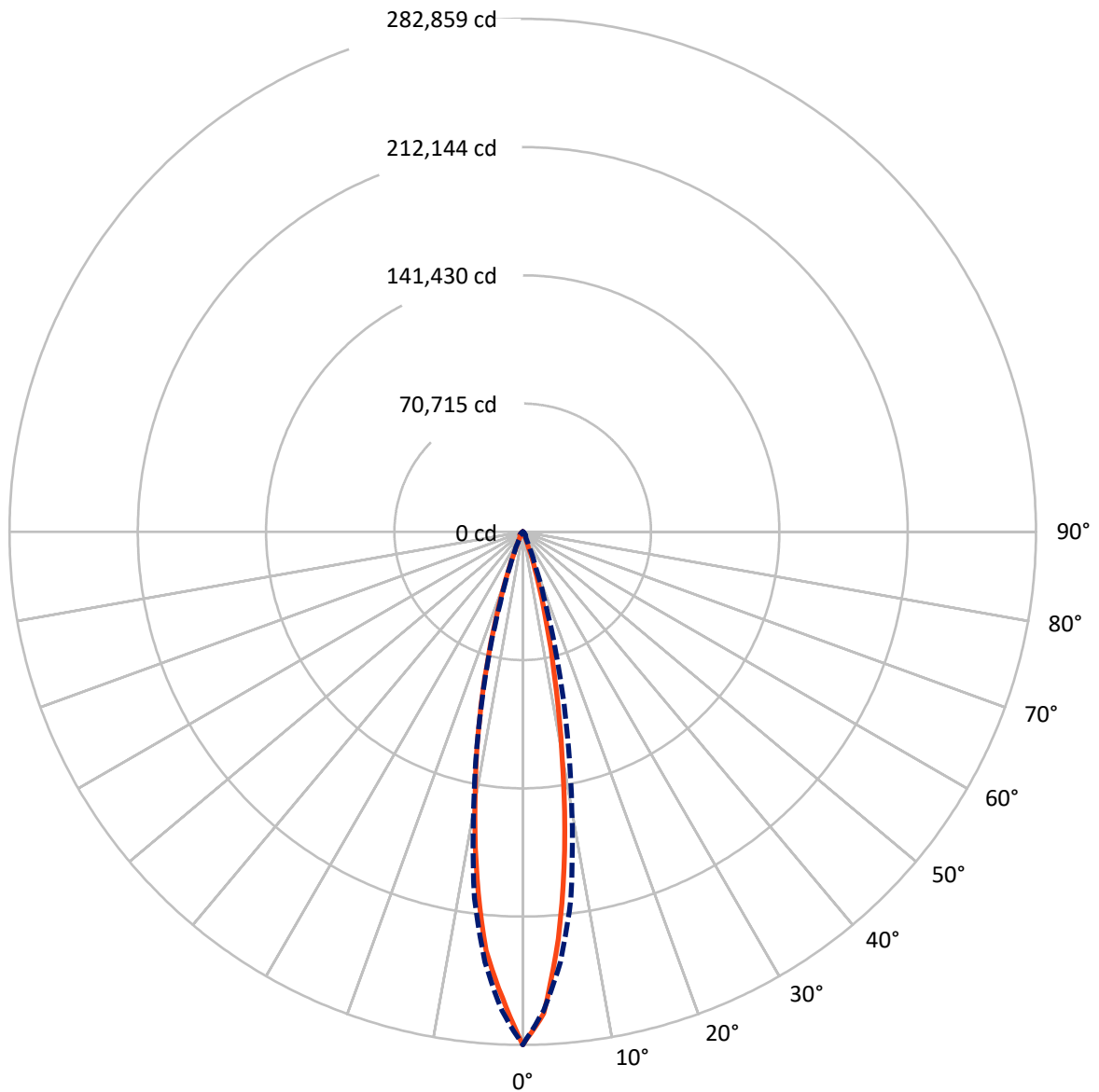
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### Lumen Table

90	0.1		0.3		0.4		0.4		0.4		0.4		0.3		0.1			
80	0.1		0.3		0.4		0.4		0.4		0.4		0.3		0.1			
70	0.1	0.1	0.1	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.1	0.1	0.1		
60		0.1	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.1			
50	0.1	0.1	0.3	0.3	0.4	0.6	0.8	0.9	0.9	0.8	0.6	0.4	0.3	0.3	0.1	0.1		
40		0.1	0.6	1.2	2.5	4.1	5.0	5.7	5.7	5.0	4.1	2.5	1.2	0.6	0.1			
30	0.2	0.3	1.8	6.1	16.2	23.9	41.8	92.0	92.0	41.8	23.9	16.2	6.1	1.8	0.3	0.2		
20		0.6	4.1	15.8	37.2	72.8	452.5	1412.0	1412.0	452.5	72.8	37.2	15.8	4.1	0.6			
10	0.2	1.1	7.0	29.3	60.8	196.0	1849.4	5508.7	5508.7	1849.4	196.0	60.8	29.3	7.0	1.1	0.2		
0		1.9	9.2	34.4	68.1	196.7	1960.0	5743.3	5743.3	1960.0	196.7	68.1	34.4	9.2	1.9			
-10	0.4	2.2	9.3	31.7	67.3	112.5	721.6	2082.7	2082.7	721.6	112.5	67.3	31.7	9.3	2.2	0.4		
-20		2.0	7.9	19.0	47.8	70.4	109.9	215.1	215.1	109.9	70.4	47.8	19.0	7.9	2.0			
-30	0.3	1.7	5.8	11.8	26.5	50.6	65.6	72.1	72.1	65.6	50.6	26.5	11.8	5.8	1.7	0.3		
-40		1.1	4.0	8.8	15.0	24.8	43.0	58.1	58.1	43.0	24.8	15.0	8.8	4.0	1.1			
-50	0.2	0.5	2.4	5.7	10.4	15.5	19.9	22.4	22.4	19.9	15.5	10.4	5.7	2.4	0.5	0.2		
-60		0.2	0.8	2.7	5.5	9.0	12.6	14.8	14.8	12.6	9.0	5.5	2.7	0.8	0.2			
-70	0.1	0.7	2.0	5.1	7.4	5.1	2.0	0.7	0.1	0.1	0.7	2.0	5.1	7.4	5.1	2.0	0.7	0.1
-80		0.1	0.7	2.0	5.1	7.4	5.1	2.0	0.7	0.1	0.1	0.7	2.0	5.1	7.4	5.1	2.0	0.7
-90	0.1		0.7		2.0		5.1		7.4		5.1		2.0		0.7		0.1	

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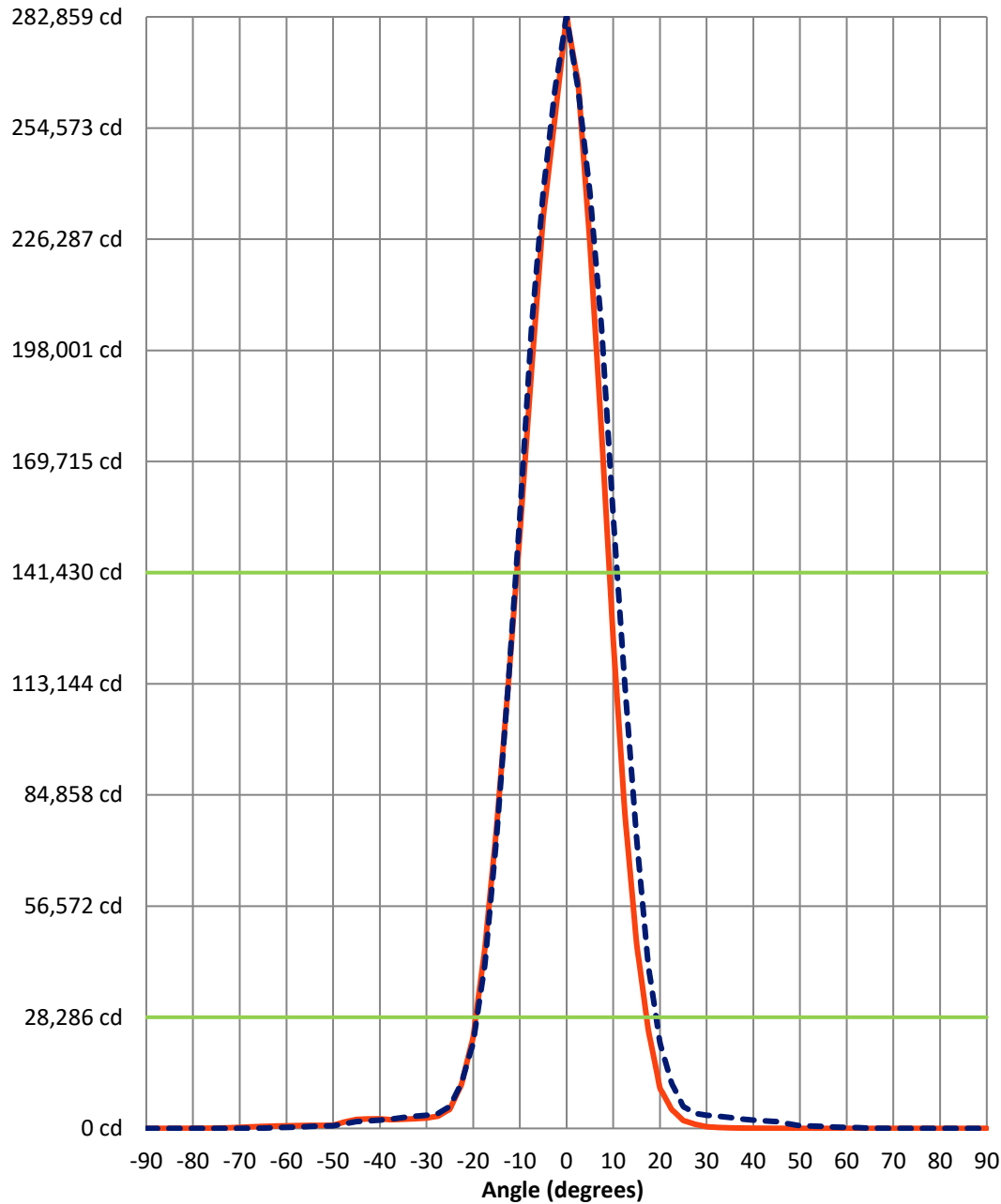
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 21.7°  
 V Angle: 19.8°  
 Lumens: 20242.4  
 Efficiency: 46.2%

**Field:**  
 H Angle: 38.4°  
 V Angle: 36.6°  
 Lumens: 37761.6  
 Efficiency: 86.2%

**Spill:**  
 Lumens: 6025.6  
 Efficiency: 13.8%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.6	4.6	4.6	4.9	5.2	5.4	5.7	5.7	5.7	5.7	5.7
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.4	4.2	4.0	3.9
85°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.4	4.4	4.4
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
75°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
70°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
67.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.8	4.7
65°	4.6	4.6	4.6	4.6	4.6	4.6	4.7	4.6	4.8	5.0	4.8
62.5°	4.6	4.6	4.6	4.6	4.6	4.7	4.7	4.8	5.1	5.1	4.9
60°	4.6	4.6	4.6	4.6	4.6	4.8	4.8	5.1	5.4	5.2	4.9
57.5°	4.6	4.6	4.6	4.6	4.7	4.9	5.0	5.4	5.5	5.2	5.0
55°	4.6	4.6	4.6	4.6	4.8	5.0	5.2	5.7	5.5	5.3	5.1
52.5°	4.6	4.6	4.6	4.6	4.9	5.2	5.4	5.7	5.6	5.3	5.1
50°	4.6	4.6	4.7	4.6	5.1	5.3	5.6	5.7	5.6	5.4	6.0
47.5°	4.6	4.6	4.7	4.6	5.2	5.4	5.7	5.7	5.7	5.5	6.8
45°	4.6	4.6	4.7	4.7	5.3	5.5	5.7	5.7	5.7	6.0	7.4
42.5°	4.6	4.6	4.8	4.8	5.5	5.6	5.7	5.7	5.8	6.4	8.4
40°	4.6	4.6	4.8	5.0	5.5	5.6	5.7	5.8	6.0	6.6	9.2
37.5°	4.6	4.6	4.9	5.1	5.6	5.7	5.7	5.9	6.5	7.4	10.0
35°	4.6	4.6	4.9	5.2	5.6	5.7	5.7	6.1	7.0	8.6	10.4
32.5°	4.6	4.6	4.9	5.3	5.7	5.7	5.7	6.2	7.6	9.8	11.4
30°	4.6	4.6	5.0	5.4	5.7	5.7	5.8	6.5	8.2	11.1	12.5
27.5°	4.6	4.6	5.1	5.4	5.7	5.7	6.0	6.9	9.0	12.4	13.9
25°	4.6	4.6	5.1	5.5	5.7	5.7	6.1	7.5	10.1	13.6	15.5
22.5°	4.6	4.6	5.2	5.6	5.7	5.7	6.2	8.0	11.1	14.8	18.4
20°	4.6	4.6	5.2	5.6	5.7	5.8	6.4	8.5	12.2	16.1	21.2
17.5°	4.6	4.6	5.3	5.6	5.7	5.9	6.6	9.0	13.2	17.5	23.9
15°	4.6	4.6	5.4	5.7	5.7	6.0	6.8	9.5	14.2	18.9	26.3
12.5°	4.6	4.6	5.4	5.7	5.7	6.1	7.0	9.9	15.2	20.3	28.6
10°	4.6	4.6	5.5	5.7	5.7	6.3	7.3	10.3	16.1	22.5	32.1
7.5°	4.6	4.6	5.5	5.7	5.7	6.4	7.5	10.7	17.1	24.9	38.6
5°	4.6	4.6	5.6	5.7	5.7	6.5	7.7	11.0	17.9	27.4	45.2
2.5°	4.6	4.6	5.6	5.7	5.7	6.7	7.8	11.2	18.7	29.8	51.9
0°	4.6	4.6	5.7	5.7	5.7	6.8	8.0	11.4	19.4	32.0	58.2
-2.5°	4.6	4.6	5.7	5.8	5.8	7.0	8.9	14.1	25.1	41.8	75.2
-5°	4.6	4.6	5.7	5.8	5.9	7.3	9.8	16.6	30.6	51.1	91.2
-7.5°	4.6	4.7	5.7	5.9	6.0	7.5	10.6	18.9	35.7	59.8	105.8
-10°	4.6	4.7	5.7	6.0	6.1	7.7	11.3	21.0	40.2	67.7	118.7
-12.5°	4.6	4.7	5.7	6.0	6.2	7.9	11.9	22.8	44.0	74.5	126.3
-15°	4.6	4.7	5.6	6.1	6.3	8.0	12.4	24.2	47.4	79.9	130.9
-17.5°	4.6	4.8	5.6	6.1	6.4	8.1	12.7	25.7	50.6	84.3	134.0
-20°	4.6	4.8	5.6	6.2	6.5	8.1	13.1	27.2	53.0	87.6	135.5



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 CATALOG NUMBER: EPH-LS-08-0320L-40-70-2S-CV2-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.6	4.8	5.6	6.2	6.5	8.2	13.6	27.9	54.4	89.9	135.4
-25°	4.6	4.8	5.6	6.2	6.6	8.3	13.8	27.9	54.9	91.0	133.7
-27.5°	4.6	4.8	5.6	6.2	6.7	8.4	13.7	27.0	54.4	91.2	134.3
-30°	4.6	4.8	5.6	6.2	6.8	8.5	13.3	25.2	53.3	90.3	133.6
-32.5°	4.6	4.8	5.5	6.2	6.9	8.4	12.5	24.3	51.2	88.1	131.4
-35°	4.6	4.9	5.5	6.1	7.1	8.4	12.2	23.4	47.9	84.4	127.5
-37.5°	4.6	4.9	5.5	6.1	7.1	8.3	12.0	22.0	43.2	79.4	117.7
-40°	4.6	4.9	5.5	6.0	7.2	8.4	11.8	20.0	37.2	72.9	106.9
-42.5°	4.6	4.9	5.5	5.9	7.1	8.4	11.5	17.6	33.0	62.9	95.1
-45°	4.6	4.9	5.5	5.9	7.0	8.4	11.0	15.6	29.5	52.0	82.5
-47.5°	4.6	4.9	5.5	5.8	6.9	8.3	10.5	15.0	25.4	40.7	69.7
-50°	4.6	4.9	5.5	5.8	6.8	8.2	10.2	14.2	20.2	34.7	56.5
-52.5°	4.6	4.9	5.5	5.8	6.6	8.0	9.9	13.2	17.6	28.2	43.4
-55°	4.6	4.9	5.5	5.8	6.5	7.8	9.6	12.2	16.1	21.2	35.3
-57.5°	4.6	4.8	5.5	5.8	6.3	7.5	9.1	11.6	14.6	18.3	26.7
-60°	4.6	4.8	5.6	5.8	6.1	7.2	8.6	10.8	13.2	16.6	20.0
-62.5°	4.6	4.8	5.5	5.8	6.1	6.9	8.2	10.0	12.3	14.8	18.0
-65°	4.6	4.8	5.4	5.8	6.0	6.6	7.7	9.2	11.4	13.5	15.9
-67.5°	4.6	4.8	5.4	5.7	5.9	6.4	7.3	8.7	10.4	12.4	14.5
-70°	4.6	4.8	5.3	5.7	5.9	6.2	6.8	8.2	9.7	11.3	13.2
-72.5°	4.6	4.8	5.2	5.6	5.8	6.1	6.5	7.6	9.1	10.6	12.1
-75°	4.6	4.7	5.1	5.5	5.7	5.9	6.3	7.2	8.4	9.8	11.2
-77.5°	4.6	4.7	5.1	5.4	5.6	5.8	6.0	6.9	7.9	9.1	10.3
-80°	4.6	4.7	5.0	5.3	5.5	5.7	5.7	6.5	7.4	8.4	9.5
-82.5°	4.6	4.7	4.9	5.2	5.4	5.6	5.7	6.2	6.9	7.7	8.6
-85°	4.6	4.6	4.8	5.1	5.3	5.5	5.7	6.0	6.5	7.0	7.6
-87.5°	4.6	4.6	4.7	5.0	5.2	5.5	5.7	5.9	6.1	6.4	6.7
-90°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.3	4.0	3.7	3.4





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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°	5.7	5.7	5.7	5.7	6.0	6.3	6.5	6.8	7.1	7.4	7.7
87.5°	3.8	3.7	3.6	3.4	3.4	3.4	3.4	3.4	3.1	2.9	2.6
85°	4.2	4.0	3.7	3.4	3.4	3.4	3.4	3.4	3.1	2.9	2.6
82.5°	4.3	4.0	3.7	3.4	3.4	3.4	3.4	3.4	3.2	2.9	2.6
80°	4.3	4.0	3.7	3.4	3.4	3.4	3.4	3.4	3.2	3.0	2.8
77.5°	4.4	4.1	3.8	3.5	3.4	3.6	3.8	4.0	4.0	3.9	3.7
75°	4.4	4.1	4.0	4.0	4.2	4.4	4.6	4.6	4.4	4.1	3.8
72.5°	4.5	4.4	4.4	4.6	4.6	4.6	4.6	4.6	5.2	5.9	6.5
70°	4.6	4.6	4.6	4.6	4.6	4.9	6.0	7.6	9.2	10.5	12.0
67.5°	4.6	4.6	4.6	4.7	5.5	6.8	8.6	13.1	18.4	20.0	19.9
65°	4.6	4.6	4.9	5.6	6.7	10.2	15.2	21.3	25.9	25.3	23.6
62.5°	4.6	4.8	5.3	7.0	10.2	14.8	19.6	24.1	28.5	27.7	24.1
60°	4.7	4.9	6.7	10.0	13.5	17.1	21.7	24.6	27.5	28.3	22.3
57.5°	4.7	5.9	9.1	12.5	15.7	18.3	20.1	22.6	24.2	24.5	18.4
55°	5.4	7.7	11.1	14.5	16.7	16.0	17.2	18.8	19.5	18.0	13.0
52.5°	6.8	9.4	12.9	15.7	15.9	14.7	14.4	15.1	14.0	11.9	10.3
50°	8.0	11.1	14.4	16.0	15.6	14.0	12.0	11.7	11.3	10.4	9.4
47.5°	9.3	12.6	15.5	16.5	15.4	13.9	11.5	11.2	11.3	11.9	11.3
45°	10.5	13.5	16.5	16.6	15.8	14.7	13.6	12.5	14.7	15.4	15.3
42.5°	11.6	14.1	16.7	17.0	17.4	17.2	16.8	18.1	19.4	20.6	21.0
40°	12.0	14.5	17.6	19.8	19.8	20.7	23.1	25.3	25.4	26.9	27.8
37.5°	12.2	15.9	20.1	25.1	23.6	26.4	30.4	36.3	37.2	33.7	38.5
35°	12.2	17.9	26.9	32.7	31.9	33.9	43.3	52.0	55.9	50.3	58.0
32.5°	13.4	20.5	35.6	41.8	47.6	49.8	58.8	76.1	85.7	89.3	95.8
30°	16.2	28.5	45.6	52.3	68.6	79.4	87.0	107.6	125.2	178.8	218.5
27.5°	19.8	38.3	55.5	71.0	95.0	113.6	129.9	151.1	215.9	313.4	414.7
25°	23.3	51.5	66.5	95.3	127.8	153.0	175.2	205.3	341.1	540.9	626.2
22.5°	30.3	66.6	83.8	122.6	163.6	193.4	225.8	307.1	490.5	790.7	825.9
20°	41.8	81.2	107.5	153.2	203.3	233.9	276.9	414.0	659.7	889.0	984.2
17.5°	54.1	97.1	133.5	189.3	250.0	284.7	335.0	516.9	805.4	1009.6	1137.2
15°	67.0	114.0	158.5	228.9	299.5	347.4	451.2	658.2	920.5	1150.8	1336.8
12.5°	80.0	131.6	182.4	270.8	351.3	409.3	592.2	873.7	1113.3	1329.0	1581.5
10°	92.9	149.4	204.9	314.0	404.5	470.1	747.3	1092.7	1328.0	1539.0	1797.9
7.5°	118.7	173.4	228.7	357.0	457.9	529.3	909.5	1310.4	1525.0	1723.0	1977.0
5°	146.8	203.0	265.3	408.2	511.5	583.9	1057.2	1520.9	1706.5	1885.1	2133.2
2.5°	174.3	231.2	300.7	457.4	562.8	631.2	1132.9	1636.4	1822.0	2009.3	2268.1
0°	199.7	257.9	334.4	502.2	610.6	675.6	1188.1	1733.6	1918.5	2113.6	2386.4
-2.5°	220.9	285.1	370.0	523.4	623.8	686.9	1169.9	1732.6	1954.5	2171.3	2453.5
-5°	238.6	310.6	402.8	541.0	634.5	696.3	1134.0	1705.3	1984.2	2217.4	2504.1
-7.5°	252.5	334.0	432.3	554.7	641.0	700.9	1118.2	1716.7	2037.2	2257.9	2537.2
-10°	260.1	343.4	434.5	554.2	642.2	701.9	1083.3	1693.2	2081.3	2293.9	2551.2
-12.5°	250.0	339.5	428.8	548.4	642.6	701.5	1016.1	1631.0	2117.3	2328.3	2538.4
-15°	238.7	333.6	419.6	537.2	642.7	699.8	913.4	1527.5	2096.9	2266.8	2485.2
-17.5°	227.0	325.8	406.7	520.1	642.9	697.1	767.4	1305.3	1892.3	2136.9	2399.4
-20°	215.3	316.0	389.9	496.9	639.5	678.4	711.0	1079.6	1594.0	1971.6	2236.9



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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°	204.1	304.1	372.8	474.8	589.9	646.2	677.2	861.2	1286.9	1770.8	1994.1
-25°	198.0	286.7	358.0	440.9	538.2	612.6	639.4	677.6	1015.7	1453.2	1772.6
-27.5°	194.9	271.4	338.2	407.1	490.3	572.4	601.3	634.6	806.7	1142.5	1539.9
-30°	189.8	252.0	317.2	376.4	450.6	520.9	563.1	601.1	647.9	900.2	1214.5
-32.5°	178.3	231.8	294.5	352.1	413.8	476.0	535.3	576.8	615.0	683.3	932.0
-35°	164.9	214.7	270.8	327.0	379.1	439.8	501.5	555.7	586.6	618.4	728.0
-37.5°	153.9	196.6	246.7	301.0	351.1	406.1	466.0	523.3	565.9	595.0	636.6
-40°	141.9	177.5	224.8	274.3	323.4	373.0	428.1	483.9	537.0	581.5	615.0
-42.5°	129.0	163.3	203.1	247.4	294.4	341.1	389.2	442.2	498.1	556.1	599.5
-45°	114.9	148.3	181.4	222.8	264.5	308.1	352.7	399.5	456.2	511.7	566.8
-47.5°	99.7	132.2	164.2	198.0	236.4	275.2	315.2	362.9	412.7	465.1	516.8
-50°	84.0	114.2	146.3	177.2	209.9	244.2	279.8	326.8	374.3	419.6	466.0
-52.5°	68.8	95.2	126.0	157.2	186.1	216.3	250.4	291.7	336.1	380.0	421.3
-55°	53.2	77.6	104.0	134.1	163.9	190.8	223.0	259.6	297.1	338.8	378.8
-57.5°	41.0	59.7	82.8	108.6	137.4	167.1	197.7	228.5	262.7	298.0	332.6
-60°	30.6	44.2	61.9	84.1	108.0	137.0	170.5	201.1	230.1	258.9	290.5
-62.5°	21.2	31.9	44.4	59.8	80.7	104.4	133.1	164.8	198.6	224.1	249.4
-65°	18.9	21.9	30.5	42.0	53.6	73.3	96.1	121.0	149.7	175.8	203.1
-67.5°	16.6	19.2	22.0	26.5	36.8	47.7	59.4	79.6	101.3	120.0	139.5
-70°	15.0	16.6	18.9	21.4	24.0	28.4	38.0	48.1	58.2	69.1	84.7
-72.5°	13.6	15.0	16.5	17.9	20.1	22.2	24.4	26.5	32.3	40.2	47.4
-75°	12.3	13.4	14.7	16.0	17.2	18.4	19.9	21.8	23.6	25.5	27.5
-77.5°	11.1	11.9	12.9	14.0	14.9	15.7	16.6	17.7	18.9	20.0	21.1
-80°	9.9	10.3	10.8	11.6	12.4	13.1	13.7	14.2	14.8	15.7	16.6
-82.5°	8.9	9.1	9.4	9.7	10.1	10.6	11.2	11.8	12.2	12.6	13.0
-85°	7.8	8.0	8.2	8.3	8.6	8.8	9.1	9.4	9.6	9.8	10.0
-87.5°	6.8	6.8	6.9	7.0	7.2	7.4	7.5	7.6	7.8	7.9	7.9
-90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.1	2.9	2.6



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	8.0	8.0	8.0	8.0	8.0	9.7	11.4	13.1	14.8	17.4	19.9
87.5°	2.3	2.3	2.2	2.2	2.2	1.9	1.7	1.4	1.1	0.8	0.6
85°	2.3	2.3	2.3	2.3	2.3	2.0	1.7	1.4	1.1	1.1	1.1
82.5°	2.3	2.3	2.3	2.3	2.3	2.0	1.7	1.4	1.1	1.1	1.1
80°	2.6	2.6	2.6	2.5	2.3	2.0	1.7	1.4	1.1	1.1	1.1
77.5°	3.5	3.2	2.9	2.6	2.4	2.2	2.1	2.1	2.1	1.9	1.7
75°	3.5	3.4	3.5	3.4	3.0	2.8	2.7	2.5	2.3	2.3	2.2
72.5°	6.9	6.9	6.5	6.1	5.5	5.2	5.0	4.7	4.2	4.0	3.9
70°	12.5	12.3	11.8	10.8	9.3	8.0	7.2	6.5	5.7	5.4	5.5
67.5°	18.2	16.3	14.8	13.0	10.8	9.1	8.2	7.3	6.2	5.7	5.7
65°	21.1	17.2	14.6	12.7	11.3	9.7	8.2	6.8	5.6	5.0	5.1
62.5°	20.0	14.9	11.8	10.0	8.6	7.8	6.6	5.7	5.0	4.6	4.7
60°	16.6	11.1	8.3	7.4	6.6	5.8	5.4	4.9	4.3	3.8	4.0
57.5°	12.9	8.9	6.7	6.4	6.1	5.8	5.3	4.8	4.5	4.2	4.4
55°	9.6	7.9	6.8	6.9	6.8	6.2	5.6	5.6	5.4	5.3	5.4
52.5°	8.4	8.3	8.6	8.5	7.7	7.1	6.7	6.7	6.9	7.1	7.4
50°	9.6	9.9	9.7	8.9	8.7	8.5	8.0	8.5	9.2	9.4	9.6
47.5°	11.4	11.6	11.7	10.9	11.1	12.0	12.2	12.5	13.8	14.7	15.6
45°	14.6	15.8	16.2	16.7	17.0	18.7	19.6	20.0	23.6	25.3	25.5
42.5°	21.1	23.0	24.7	27.1	26.8	31.0	36.5	39.5	39.3	38.2	38.1
40°	30.9	34.3	41.8	45.8	50.2	55.1	55.6	49.6	49.6	55.8	55.5
37.5°	47.6	59.3	70.0	79.4	81.7	78.9	79.9	84.6	90.1	90.6	93.3
35°	80.3	103.9	109.5	116.7	124.6	117.1	116.2	123.6	121.1	133.9	143.1
32.5°	138.8	172.4	182.6	191.4	213.5	200.7	165.3	216.8	205.3	219.6	241.4
30°	220.8	286.9	331.3	344.6	350.2	351.7	385.0	414.5	437.9	469.1	513.3
27.5°	418.2	462.0	535.8	577.2	525.1	546.6	632.1	647.7	735.8	831.5	910.1
25°	635.9	685.0	816.4	833.0	789.4	869.4	952.2	969.3	1124.7	1237.5	1507.5
22.5°	832.7	915.1	1055.7	1095.6	1131.9	1227.1	1323.2	1437.8	1787.9	2222.0	3009.8
20°	999.3	1091.2	1228.6	1339.6	1430.3	1551.7	1663.6	2054.9	2809.0	4458.3	6252.3
17.5°	1200.9	1257.9	1427.8	1576.2	1718.3	1892.2	2387.0	3375.3	5558.3	9152.0	12558.1
15°	1472.6	1585.9	1691.3	1852.0	2117.2	2623.0	3714.9	6934.2	11501.2	17769.5	25533.6
12.5°	1785.9	1942.1	2088.3	2224.6	2605.1	3798.1	7282.1	12864.8	20542.1	30611.5	45849.1
10°	2065.8	2304.3	2483.8	2721.5	3458.5	5778.6	11156.9	19049.3	32539.8	50331.5	70216.6
7.5°	2260.0	2543.4	2785.5	3139.0	4340.8	8271.2	15716.7	28007.5	47183.7	71156.8	97981.4
5°	2444.8	2764.4	3002.0	3436.8	4924.1	10002.8	19172.8	35474.4	61516.8	93193.9	127633.9
2.5°	2619.4	2959.6	3193.2	3703.6	5292.4	10792.0	20620.4	40116.4	70788.1	108309.7	149212.6
0°	2781.3	3103.1	3347.4	3829.0	5603.7	11549.7	21852.0	41613.1	73920.3	112760.2	155781.6
-2.5°	2751.1	2990.3	3260.7	3743.5	5307.6	10737.2	20416.8	39855.2	70243.0	107447.4	147019.9
-5°	2740.5	2934.5	3178.7	3616.2	4941.9	9277.7	18133.2	35886.0	64217.8	97746.4	134604.6
-7.5°	2748.6	2902.6	3093.5	3455.4	4500.3	7844.2	15766.0	31108.8	54510.1	82897.8	116182.2
-10°	2765.8	2885.0	3078.5	3396.8	4128.2	6269.7	11931.7	23967.9	42858.8	65437.6	91373.0
-12.5°	2795.6	2956.2	3150.4	3366.8	3754.3	4993.8	9383.9	18605.6	31688.4	47551.1	67285.6
-15°	2785.4	2992.4	3211.8	3345.4	3556.4	4246.3	6086.8	12285.1	21925.7	32446.1	44389.3
-17.5°	2710.4	2958.2	3054.6	3158.3	3286.6	3626.5	4653.7	7409.3	12899.1	19811.6	26530.9
-20°	2536.3	2661.6	2782.2	2905.9	3048.1	3235.6	3555.2	4628.6	6236.1	10158.6	13437.7



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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°	2209.3	2330.0	2434.5	2635.1	2778.6	2916.4	3092.4	3324.7	3942.9	4914.2	6528.3
-25°	1928.9	2003.2	2150.2	2384.5	2538.7	2621.2	2731.6	2819.7	3031.6	3257.2	3814.8
-27.5°	1704.8	1816.2	1997.3	2202.5	2350.3	2416.7	2474.7	2526.5	2659.6	2751.8	2910.2
-30°	1527.4	1707.9	1877.6	2065.4	2201.3	2280.2	2304.9	2379.6	2466.4	2532.2	2596.4
-32.5°	1273.0	1590.5	1744.9	1900.4	2054.0	2151.1	2217.6	2276.5	2357.9	2408.5	2433.7
-35°	999.1	1324.1	1628.0	1732.4	1844.0	1983.5	2097.1	2157.0	2210.6	2259.3	2290.0
-37.5°	754.0	1020.2	1303.2	1557.6	1677.1	1781.5	1946.7	2046.7	2095.2	2167.9	2209.2
-40°	653.9	729.4	970.8	1209.1	1423.6	1661.3	1822.0	1976.1	2128.5	2221.9	2282.5
-42.5°	631.5	662.3	691.0	858.0	1072.4	1287.8	1524.6	1786.1	2004.8	2169.5	2322.5
-45°	613.4	636.9	659.9	686.1	711.2	875.9	1061.1	1256.0	1507.6	1751.3	1961.6
-47.5°	566.7	611.0	637.0	656.7	677.2	700.0	721.0	765.2	934.4	1114.3	1285.2
-50°	513.5	557.6	597.0	633.5	659.8	677.5	690.7	708.1	728.3	746.2	762.7
-52.5°	461.2	503.9	544.0	583.6	620.8	655.0	686.6	706.6	722.0	735.4	743.8
-55°	417.2	454.0	490.0	529.2	567.4	603.8	638.1	669.0	698.1	725.2	740.8
-57.5°	369.1	405.3	441.3	477.5	512.4	545.9	579.0	611.3	642.0	670.0	687.0
-60°	321.5	352.0	387.7	424.9	459.6	492.0	525.0	556.3	585.4	610.0	625.2
-62.5°	276.8	305.2	334.9	368.0	403.7	438.6	468.0	497.6	527.2	552.7	570.1
-65°	229.4	253.2	277.3	303.2	330.6	359.2	388.5	417.4	445.6	468.6	485.2
-67.5°	162.3	186.0	209.0	232.0	253.0	274.1	296.6	319.3	341.9	360.5	375.1
-70°	100.0	114.8	128.8	143.7	161.3	179.6	198.4	215.9	232.1	244.1	253.0
-72.5°	54.0	59.9	67.1	78.3	88.7	99.7	111.0	121.9	132.1	139.7	145.3
-75°	29.6	32.2	36.9	41.3	45.4	50.2	55.2	59.9	64.2	68.4	72.4
-77.5°	22.4	23.7	25.0	26.0	27.0	28.7	30.6	32.6	34.5	37.1	39.9
-80°	17.5	18.2	18.9	19.5	20.2	21.4	22.6	23.8	25.0	26.3	27.4
-82.5°	13.5	13.8	14.1	14.4	14.7	15.5	16.3	17.1	17.8	19.0	20.3
-85°	10.2	10.4	10.6	10.8	11.0	11.6	12.2	12.8	13.5	14.4	15.3
-87.5°	8.0	8.2	8.5	8.7	9.0	9.4	9.8	10.1	10.5	11.3	12.1
-90°	2.3	2.0	1.7	1.4	1.1	1.1	1.1	1.1	1.1	0.8	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°	22.5	25.1	26.8	28.5	26.8	25.1	22.5	19.9	17.4	14.8	13.1
87.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.4
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
77.5°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.1	2.1
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.5
72.5°	3.7	3.4	3.4	3.4	3.4	3.4	3.7	3.9	4.0	4.2	4.7
70°	5.6	5.6	5.7	5.7	5.7	5.6	5.6	5.5	5.4	5.7	6.5
67.5°	5.7	5.7	5.2	4.6	5.2	5.7	5.7	5.7	5.7	6.2	7.3
65°	5.4	5.6	5.2	4.6	5.2	5.6	5.4	5.1	5.0	5.6	6.8
62.5°	4.7	4.6	4.6	4.6	4.6	4.6	4.7	4.7	4.6	5.0	5.7
60°	4.2	4.5	4.6	4.6	4.6	4.5	4.2	4.0	3.8	4.3	4.9
57.5°	4.5	4.6	5.0	5.7	5.0	4.6	4.5	4.4	4.2	4.5	4.8
55°	5.5	5.6	5.7	5.7	5.7	5.6	5.5	5.4	5.3	5.4	5.6
52.5°	7.7	7.8	8.0	8.0	8.0	7.8	7.7	7.4	7.1	6.9	6.7
50°	9.9	10.1	9.8	9.1	9.8	10.1	9.9	9.6	9.4	9.2	8.5
47.5°	16.4	16.8	16.6	16.0	16.6	16.8	16.4	15.6	14.7	13.8	12.5
45°	26.1	26.1	26.0	26.2	26.0	26.1	26.1	25.5	25.3	23.6	20.0
42.5°	39.1	39.4	39.6	39.9	39.6	39.4	39.1	38.1	38.2	39.3	39.5
40°	56.5	56.8	56.2	54.8	56.2	56.8	56.5	55.5	55.8	49.6	49.6
37.5°	98.1	100.3	99.7	98.1	99.7	100.3	98.1	93.3	90.6	90.1	84.6
35°	146.4	145.1	141.3	141.5	141.3	145.1	146.4	143.1	133.9	121.1	123.6
32.5°	228.7	236.9	239.5	240.8	239.5	236.9	228.7	241.4	219.6	205.3	216.8
30°	544.5	528.0	455.0	432.5	455.0	528.0	544.5	513.3	469.1	437.9	414.5
27.5°	967.2	1019.3	1067.1	1071.7	1067.1	1019.3	967.2	910.1	831.5	735.8	647.7
25°	1786.3	1961.8	2035.8	2025.8	2035.8	1961.8	1786.3	1507.5	1237.5	1124.7	969.3
22.5°	3941.2	4540.1	4852.2	4863.0	4852.2	4540.1	3941.2	3009.8	2222.0	1787.9	1437.8
20°	8599.7	10045.0	10410.0	10301.1	10410.0	10045.0	8599.7	6252.3	4458.3	2809.0	2054.9
17.5°	17731.7	22007.4	24926.5	25127.4	24926.5	22007.4	17731.7	12558.1	9152.0	5558.3	3375.3
15°	34511.2	42370.9	46446.7	47139.2	46446.7	42370.9	34511.2	25533.6	17769.5	11501.2	6934.2
12.5°	60288.5	72251.5	78907.6	80046.7	78907.6	72251.5	60288.5	45849.1	30611.5	20542.1	12864.8
10°	91958.9	108644.4	119493.7	124390.9	119493.7	108644.4	91958.9	70216.6	50331.5	32539.8	19049.3
7.5°	124455.3	150742.1	172209.4	177076.7	172209.4	150742.1	124455.3	97981.4	71156.8	47183.7	28007.5
5°	164657.8	199904.1	220519.6	225280.6	220519.6	199904.1	164657.8	127633.9	93193.9	61516.8	35474.4
2.5°	194470.1	232365.9	253973.3	265847.2	253973.3	232365.9	194470.1	149212.6	108309.7	70788.1	40116.4
0°	203722.0	238204.4	264181.0	282859.0	264181.0	238204.4	203722.0	155781.6	112760.2	73920.3	41613.1
-2.5°	191199.4	227761.6	246610.4	257111.3	246610.4	227761.6	191199.4	147019.9	107447.4	70243.0	39855.2
-5°	171277.2	204886.2	225442.0	231779.0	225442.0	204886.2	171277.2	134604.6	97746.4	64217.8	35886.0
-7.5°	145176.5	169720.2	185114.6	192877.0	185114.6	169720.2	145176.5	116182.2	82897.8	54510.1	31108.8
-10°	116924.9	135552.3	147034.9	151329.5	147034.9	135552.3	116924.9	91373.0	65437.6	42858.8	23967.9
-12.5°	85640.1	100476.5	109298.0	112701.3	109298.0	100476.5	85640.1	67285.6	47551.1	31688.4	18605.6
-15°	56526.4	67221.3	74006.9	76376.3	74006.9	67221.3	56526.4	44389.3	32446.1	21925.7	12285.1
-17.5°	34260.6	40164.2	44556.7	45664.7	44556.7	40164.2	34260.6	26530.9	19811.6	12899.1	7409.3
-20°	18130.1	20786.7	22270.4	23274.0	22270.4	20786.7	18130.1	13437.7	10158.6	6236.1	4628.6



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	8595.1	10041.8	10708.6	11217.6	10708.6	10041.8	8595.1	6528.3	4914.2	3942.9	3324.7
-25°	4301.5	4600.8	4731.1	4913.2	4731.1	4600.8	4301.5	3814.8	3257.2	3031.6	2819.7
-27.5°	3017.2	3087.4	3115.0	3137.4	3115.0	3087.4	3017.2	2910.2	2751.8	2659.6	2526.5
-30°	2629.3	2640.8	2639.2	2637.5	2639.2	2640.8	2629.3	2596.4	2532.2	2466.4	2379.6
-32.5°	2461.0	2473.3	2472.4	2470.9	2472.4	2473.3	2461.0	2433.7	2408.5	2357.9	2276.5
-35°	2309.8	2325.8	2333.7	2337.3	2333.7	2325.8	2309.8	2290.0	2259.3	2210.6	2157.0
-37.5°	2232.3	2235.8	2226.7	2216.4	2226.7	2235.8	2232.3	2209.2	2167.9	2095.2	2046.7
-40°	2312.3	2366.6	2421.1	2437.8	2421.1	2366.6	2312.3	2282.5	2221.9	2128.5	1976.1
-42.5°	2372.9	2407.7	2423.5	2418.4	2423.5	2407.7	2372.9	2322.5	2169.5	2004.8	1786.1
-45°	2100.6	2208.6	2272.6	2288.3	2272.6	2208.6	2100.6	1961.6	1751.3	1507.6	1256.0
-47.5°	1428.5	1549.5	1625.7	1650.3	1625.7	1549.5	1428.5	1285.2	1114.3	934.4	765.2
-50°	778.7	793.9	798.9	794.3	798.9	793.9	778.7	762.7	746.2	728.3	708.1
-52.5°	752.0	761.1	766.9	770.4	766.9	761.1	752.0	743.8	735.4	722.0	706.6
-55°	754.1	765.7	772.1	774.9	772.1	765.7	754.1	740.8	725.2	698.1	669.0
-57.5°	702.0	715.0	721.3	723.6	721.3	715.0	702.0	687.0	670.0	642.0	611.3
-60°	638.9	651.3	656.1	657.4	656.1	651.3	638.9	625.2	610.0	585.4	556.3
-62.5°	586.3	600.9	607.1	609.4	607.1	600.9	586.3	570.1	552.7	527.2	497.6
-65°	499.7	512.2	516.5	517.0	516.5	512.2	499.7	485.2	468.6	445.6	417.4
-67.5°	388.2	399.5	403.4	404.0	403.4	399.5	388.2	375.1	360.5	341.9	319.3
-70°	260.2	265.6	267.9	268.2	267.9	265.6	260.2	253.0	244.1	232.1	215.9
-72.5°	149.8	153.1	154.2	154.1	154.2	153.1	149.8	145.3	139.7	132.1	121.9
-75°	75.9	79.0	79.7	79.9	79.7	79.0	75.9	72.4	68.4	64.2	59.9
-77.5°	42.6	45.3	45.6	45.7	45.6	45.3	42.6	39.9	37.1	34.5	32.6
-80°	28.5	29.6	29.7	29.7	29.7	29.6	28.5	27.4	26.3	25.0	23.8
-82.5°	21.5	22.7	22.8	22.8	22.8	22.7	21.5	20.3	19.0	17.8	17.1
-85°	16.2	17.1	17.7	18.3	17.7	17.1	16.2	15.3	14.4	13.5	12.8
-87.5°	12.9	13.7	14.3	14.8	14.3	13.7	12.9	12.1	11.3	10.5	10.1
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.1



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	11.4	9.7	8.0	8.0	8.0	8.0	8.0	7.7	7.4	7.1	6.8
87.5°	1.7	1.9	2.2	2.2	2.2	2.3	2.3	2.6	2.9	3.1	3.4
85°	1.7	2.0	2.3	2.3	2.3	2.3	2.3	2.6	2.9	3.1	3.4
82.5°	1.7	2.0	2.3	2.3	2.3	2.3	2.3	2.6	2.9	3.2	3.4
80°	1.7	2.0	2.3	2.5	2.6	2.6	2.6	2.8	3.0	3.2	3.4
77.5°	2.1	2.2	2.4	2.6	2.9	3.2	3.5	3.7	3.9	4.0	4.0
75°	2.7	2.8	3.0	3.4	3.5	3.4	3.5	3.8	4.1	4.4	4.6
72.5°	5.0	5.2	5.5	6.1	6.5	6.9	6.9	6.5	5.9	5.2	4.6
70°	7.2	8.0	9.3	10.8	11.8	12.3	12.5	12.0	10.5	9.2	7.6
67.5°	8.2	9.1	10.8	13.0	14.8	16.3	18.2	19.9	20.0	18.4	13.1
65°	8.2	9.7	11.3	12.7	14.6	17.2	21.1	23.6	25.3	25.9	21.3
62.5°	6.6	7.8	8.6	10.0	11.8	14.9	20.0	24.1	27.7	28.5	24.1
60°	5.4	5.8	6.6	7.4	8.3	11.1	16.6	22.3	28.3	27.5	24.6
57.5°	5.3	5.8	6.1	6.4	6.7	8.9	12.9	18.4	24.5	24.2	22.6
55°	5.6	6.2	6.8	6.9	6.8	7.9	9.6	13.0	18.0	19.5	18.8
52.5°	6.7	7.1	7.7	8.5	8.6	8.3	8.4	10.3	11.9	14.0	15.1
50°	8.0	8.5	8.7	8.9	9.7	9.9	9.6	9.4	10.4	11.3	11.7
47.5°	12.2	12.0	11.1	10.9	11.7	11.6	11.4	11.3	11.9	11.3	11.2
45°	19.6	18.7	17.0	16.7	16.2	15.8	14.6	15.3	15.4	14.7	12.5
42.5°	36.5	31.0	26.8	27.1	24.7	23.0	21.1	21.0	20.6	19.4	18.1
40°	55.6	55.1	50.2	45.8	41.8	34.3	30.9	27.8	26.9	25.4	25.3
37.5°	79.9	78.9	81.7	79.4	70.0	59.3	47.6	38.5	33.7	37.2	36.3
35°	116.2	117.1	124.6	116.7	109.5	103.9	80.3	58.0	50.3	55.9	52.0
32.5°	165.3	200.7	213.5	191.4	182.6	172.4	138.8	95.8	89.3	85.7	76.1
30°	385.0	351.7	350.2	344.6	331.3	286.9	220.8	218.5	178.8	125.2	107.6
27.5°	632.1	546.6	525.1	577.2	535.8	462.0	418.2	414.7	313.4	215.9	151.1
25°	952.2	869.4	789.4	833.0	816.4	685.0	635.9	626.2	540.9	341.1	205.3
22.5°	1323.2	1227.1	1131.9	1095.6	1055.7	915.1	832.7	825.9	790.7	490.5	307.1
20°	1663.6	1551.7	1430.3	1339.6	1228.6	1091.2	999.3	984.2	889.0	659.7	414.0
17.5°	2387.0	1892.2	1718.3	1576.2	1427.8	1257.9	1200.9	1137.2	1009.6	805.4	516.9
15°	3714.9	2623.0	2117.2	1852.0	1691.3	1585.9	1472.6	1336.8	1150.8	920.5	658.2
12.5°	7282.1	3798.1	2605.1	2224.6	2088.3	1942.1	1785.9	1581.5	1329.0	1113.3	873.7
10°	11156.9	5778.6	3458.5	2721.5	2483.8	2304.3	2065.8	1797.9	1539.0	1328.0	1092.7
7.5°	15716.7	8271.2	4340.8	3139.0	2785.5	2543.4	2260.0	1977.0	1723.0	1525.0	1310.4
5°	19172.8	10002.8	4924.1	3436.8	3002.0	2764.4	2444.8	2133.2	1885.1	1706.5	1520.9
2.5°	20620.4	10792.0	5292.4	3703.6	3193.2	2959.6	2619.4	2268.1	2009.3	1822.0	1636.4
0°	21852.0	11549.7	5603.7	3829.0	3347.4	3103.1	2781.3	2386.4	2113.6	1918.5	1733.6
-2.5°	20416.8	10737.2	5307.6	3743.5	3260.7	2990.3	2751.1	2453.5	2171.3	1954.5	1732.6
-5°	18133.2	9277.7	4941.9	3616.2	3178.7	2934.5	2740.5	2504.1	2217.4	1984.2	1705.3
-7.5°	15766.0	7844.2	4500.3	3455.4	3093.5	2902.6	2748.6	2537.2	2257.9	2037.2	1716.7
-10°	11931.7	6269.7	4128.2	3396.8	3078.5	2885.0	2765.8	2551.2	2293.9	2081.3	1693.2
-12.5°	9383.9	4993.8	3754.3	3366.8	3150.4	2956.2	2795.6	2538.4	2328.3	2117.3	1631.0
-15°	6086.8	4246.3	3556.4	3345.4	3211.8	2992.4	2785.4	2485.2	2266.8	2096.9	1527.5
-17.5°	4653.7	3626.5	3286.6	3158.3	3054.6	2958.2	2710.4	2399.4	2136.9	1892.3	1305.3
-20°	3555.2	3235.6	3048.1	2905.9	2782.2	2661.6	2536.3	2236.9	1971.6	1594.0	1079.6



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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°	3092.4	2916.4	2778.6	2635.1	2434.5	2330.0	2209.3	1994.1	1770.8	1286.9	861.2
-25°	2731.6	2621.2	2538.7	2384.5	2150.2	2003.2	1928.9	1772.6	1453.2	1015.7	677.6
-27.5°	2474.7	2416.7	2350.3	2202.5	1997.3	1816.2	1704.8	1539.9	1142.5	806.7	634.6
-30°	2304.9	2280.2	2201.3	2065.4	1877.6	1707.9	1527.4	1214.5	900.2	647.9	601.1
-32.5°	2217.6	2151.1	2054.0	1900.4	1744.9	1590.5	1273.0	932.0	683.3	615.0	576.8
-35°	2097.1	1983.5	1844.0	1732.4	1628.0	1324.1	999.1	728.0	618.4	586.6	555.7
-37.5°	1946.7	1781.5	1677.1	1557.6	1303.2	1020.2	754.0	636.6	595.0	565.9	523.3
-40°	1822.0	1661.3	1423.6	1209.1	970.8	729.4	653.9	615.0	581.5	537.0	483.9
-42.5°	1524.6	1287.8	1072.4	858.0	691.0	662.3	631.5	599.5	556.1	498.1	442.2
-45°	1061.1	875.9	711.2	686.1	659.9	636.9	613.4	566.8	511.7	456.2	399.5
-47.5°	721.0	700.0	677.2	656.7	637.0	611.0	566.7	516.8	465.1	412.7	362.9
-50°	690.7	677.5	659.8	633.5	597.0	557.6	513.5	466.0	419.6	374.3	326.8
-52.5°	686.6	655.0	620.8	583.6	544.0	503.9	461.2	421.3	380.0	336.1	291.7
-55°	638.1	603.8	567.4	529.2	490.0	454.0	417.2	378.8	338.8	297.1	259.6
-57.5°	579.0	545.9	512.4	477.5	441.3	405.3	369.1	332.6	298.0	262.7	228.5
-60°	525.0	492.0	459.6	424.9	387.7	352.0	321.5	290.5	258.9	230.1	201.1
-62.5°	468.0	438.6	403.7	368.0	334.9	305.2	276.8	249.4	224.1	198.6	164.8
-65°	388.5	359.2	330.6	303.2	277.3	253.2	229.4	203.1	175.8	149.7	121.0
-67.5°	296.6	274.1	253.0	232.0	209.0	186.0	162.3	139.5	120.0	101.3	79.6
-70°	198.4	179.6	161.3	143.7	128.8	114.8	100.0	84.7	69.1	58.2	48.1
-72.5°	111.0	99.7	88.7	78.3	67.1	59.9	54.0	47.4	40.2	32.3	26.5
-75°	55.2	50.2	45.4	41.3	36.9	32.2	29.6	27.5	25.5	23.6	21.8
-77.5°	30.6	28.7	27.0	26.0	25.0	23.7	22.4	21.1	20.0	18.9	17.7
-80°	22.6	21.4	20.2	19.5	18.9	18.2	17.5	16.6	15.7	14.8	14.2
-82.5°	16.3	15.5	14.7	14.4	14.1	13.8	13.5	13.0	12.6	12.2	11.8
-85°	12.2	11.6	11.0	10.8	10.6	10.4	10.2	10.0	9.8	9.6	9.4
-87.5°	9.8	9.4	9.0	8.7	8.5	8.2	8.0	7.9	7.9	7.8	7.6
-90°	1.1	1.1	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.1	3.4





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	6.5	6.3	6.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
87.5°	3.4	3.4	3.4	3.4	3.6	3.7	3.8	3.9	4.0	4.2	4.4
85°	3.4	3.4	3.4	3.4	3.7	4.0	4.2	4.4	4.4	4.4	4.5
82.5°	3.4	3.4	3.4	3.4	3.7	4.0	4.3	4.6	4.6	4.6	4.6
80°	3.4	3.4	3.4	3.4	3.7	4.0	4.3	4.6	4.6	4.6	4.6
77.5°	3.8	3.6	3.4	3.5	3.8	4.1	4.4	4.6	4.6	4.6	4.6
75°	4.6	4.4	4.2	4.0	4.0	4.1	4.4	4.6	4.6	4.6	4.6
72.5°	4.6	4.6	4.6	4.6	4.4	4.4	4.5	4.6	4.6	4.6	4.6
70°	6.0	4.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
67.5°	8.6	6.8	5.5	4.7	4.6	4.6	4.6	4.7	4.8	4.6	4.6
65°	15.2	10.2	6.7	5.6	4.9	4.6	4.6	4.8	5.0	4.8	4.6
62.5°	19.6	14.8	10.2	7.0	5.3	4.8	4.6	4.9	5.1	5.1	4.8
60°	21.7	17.1	13.5	10.0	6.7	4.9	4.7	4.9	5.2	5.4	5.1
57.5°	20.1	18.3	15.7	12.5	9.1	5.9	4.7	5.0	5.2	5.5	5.4
55°	17.2	16.0	16.7	14.5	11.1	7.7	5.4	5.1	5.3	5.5	5.7
52.5°	14.4	14.7	15.9	15.7	12.9	9.4	6.8	5.1	5.3	5.6	5.7
50°	12.0	14.0	15.6	16.0	14.4	11.1	8.0	6.0	5.4	5.6	5.7
47.5°	11.5	13.9	15.4	16.5	15.5	12.6	9.3	6.8	5.5	5.7	5.7
45°	13.6	14.7	15.8	16.6	16.5	13.5	10.5	7.4	6.0	5.7	5.7
42.5°	16.8	17.2	17.4	17.0	16.7	14.1	11.6	8.4	6.4	5.8	5.7
40°	23.1	20.7	19.8	19.8	17.6	14.5	12.0	9.2	6.6	6.0	5.8
37.5°	30.4	26.4	23.6	25.1	20.1	15.9	12.2	10.0	7.4	6.5	5.9
35°	43.3	33.9	31.9	32.7	26.9	17.9	12.2	10.4	8.6	7.0	6.1
32.5°	58.8	49.8	47.6	41.8	35.6	20.5	13.4	11.4	9.8	7.6	6.2
30°	87.0	79.4	68.6	52.3	45.6	28.5	16.2	12.5	11.1	8.2	6.5
27.5°	129.9	113.6	95.0	71.0	55.5	38.3	19.8	13.9	12.4	9.0	6.9
25°	175.2	153.0	127.8	95.3	66.5	51.5	23.3	15.5	13.6	10.1	7.5
22.5°	225.8	193.4	163.6	122.6	83.8	66.6	30.3	18.4	14.8	11.1	8.0
20°	276.9	233.9	203.3	153.2	107.5	81.2	41.8	21.2	16.1	12.2	8.5
17.5°	335.0	284.7	250.0	189.3	133.5	97.1	54.1	23.9	17.5	13.2	9.0
15°	451.2	347.4	299.5	228.9	158.5	114.0	67.0	26.3	18.9	14.2	9.5
12.5°	592.2	409.3	351.3	270.8	182.4	131.6	80.0	28.6	20.3	15.2	9.9
10°	747.3	470.1	404.5	314.0	204.9	149.4	92.9	32.1	22.5	16.1	10.3
7.5°	909.5	529.3	457.9	357.0	228.7	173.4	118.7	38.6	24.9	17.1	10.7
5°	1057.2	583.9	511.5	408.2	265.3	203.0	146.8	45.2	27.4	17.9	11.0
2.5°	1132.9	631.2	562.8	457.4	300.7	231.2	174.3	51.9	29.8	18.7	11.2
0°	1188.1	675.6	610.6	502.2	334.4	257.9	199.7	58.2	32.0	19.4	11.4
-2.5°	1169.9	686.9	623.8	523.4	370.0	285.1	220.9	75.2	41.8	25.1	14.1
-5°	1134.0	696.3	634.5	541.0	402.8	310.6	238.6	91.2	51.1	30.6	16.6
-7.5°	1118.2	700.9	641.0	554.7	432.3	334.0	252.5	105.8	59.8	35.7	18.9
-10°	1083.3	701.9	642.2	554.2	434.5	343.4	260.1	118.7	67.7	40.2	21.0
-12.5°	1016.1	701.5	642.6	548.4	428.8	339.5	250.0	126.3	74.5	44.0	22.8
-15°	913.4	699.8	642.7	537.2	419.6	333.6	238.7	130.9	79.9	47.4	24.2
-17.5°	767.4	697.1	642.9	520.1	406.7	325.8	227.0	134.0	84.3	50.6	25.7
-20°	711.0	678.4	639.5	496.9	389.9	316.0	215.3	135.5	87.6	53.0	27.2



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	677.2	646.2	589.9	474.8	372.8	304.1	204.1	135.4	89.9	54.4	27.9
-25°	639.4	612.6	538.2	440.9	358.0	286.7	198.0	133.7	91.0	54.9	27.9
-27.5°	601.3	572.4	490.3	407.1	338.2	271.4	194.9	134.3	91.2	54.4	27.0
-30°	563.1	520.9	450.6	376.4	317.2	252.0	189.8	133.6	90.3	53.3	25.2
-32.5°	535.3	476.0	413.8	352.1	294.5	231.8	178.3	131.4	88.1	51.2	24.3
-35°	501.5	439.8	379.1	327.0	270.8	214.7	164.9	127.5	84.4	47.9	23.4
-37.5°	466.0	406.1	351.1	301.0	246.7	196.6	153.9	117.7	79.4	43.2	22.0
-40°	428.1	373.0	323.4	274.3	224.8	177.5	141.9	106.9	72.9	37.2	20.0
-42.5°	389.2	341.1	294.4	247.4	203.1	163.3	129.0	95.1	62.9	33.0	17.6
-45°	352.7	308.1	264.5	222.8	181.4	148.3	114.9	82.5	52.0	29.5	15.6
-47.5°	315.2	275.2	236.4	198.0	164.2	132.2	99.7	69.7	40.7	25.4	15.0
-50°	279.8	244.2	209.9	177.2	146.3	114.2	84.0	56.5	34.7	20.2	14.2
-52.5°	250.4	216.3	186.1	157.2	126.0	95.2	68.8	43.4	28.2	17.6	13.2
-55°	223.0	190.8	163.9	134.1	104.0	77.6	53.2	35.3	21.2	16.1	12.2
-57.5°	197.7	167.1	137.4	108.6	82.8	59.7	41.0	26.7	18.3	14.6	11.6
-60°	170.5	137.0	108.0	84.1	61.9	44.2	30.6	20.0	16.6	13.2	10.8
-62.5°	133.1	104.4	80.7	59.8	44.4	31.9	21.2	18.0	14.8	12.3	10.0
-65°	96.1	73.3	53.6	42.0	30.5	21.9	18.9	15.9	13.5	11.4	9.2
-67.5°	59.4	47.7	36.8	26.5	22.0	19.2	16.6	14.5	12.4	10.4	8.7
-70°	38.0	28.4	24.0	21.4	18.9	16.6	15.0	13.2	11.3	9.7	8.2
-72.5°	24.4	22.2	20.1	17.9	16.5	15.0	13.6	12.1	10.6	9.1	7.6
-75°	19.9	18.4	17.2	16.0	14.7	13.4	12.3	11.2	9.8	8.4	7.2
-77.5°	16.6	15.7	14.9	14.0	12.9	11.9	11.1	10.3	9.1	7.9	6.9
-80°	13.7	13.1	12.4	11.6	10.8	10.3	9.9	9.5	8.4	7.4	6.5
-82.5°	11.2	10.6	10.1	9.7	9.4	9.1	8.9	8.6	7.7	6.9	6.2
-85°	9.1	8.8	8.6	8.3	8.2	8.0	7.8	7.6	7.0	6.5	6.0
-87.5°	7.5	7.4	7.2	7.0	6.9	6.8	6.8	6.7	6.4	6.1	5.9
-90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.7	4.0	4.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.7	5.4	5.2	4.9	4.6	4.6	4.6
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6
85°	4.6	4.6	4.6	4.6	4.6	4.6	4.6
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6
75°	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6
70°	4.6	4.6	4.6	4.6	4.6	4.6	4.6
67.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6
65°	4.7	4.6	4.6	4.6	4.6	4.6	4.6
62.5°	4.7	4.7	4.6	4.6	4.6	4.6	4.6
60°	4.8	4.8	4.6	4.6	4.6	4.6	4.6
57.5°	5.0	4.9	4.7	4.6	4.6	4.6	4.6
55°	5.2	5.0	4.8	4.6	4.6	4.6	4.6
52.5°	5.4	5.2	4.9	4.6	4.6	4.6	4.6
50°	5.6	5.3	5.1	4.6	4.7	4.6	4.6
47.5°	5.7	5.4	5.2	4.6	4.7	4.6	4.6
45°	5.7	5.5	5.3	4.7	4.7	4.6	4.6
42.5°	5.7	5.6	5.5	4.8	4.8	4.6	4.6
40°	5.7	5.6	5.5	5.0	4.8	4.6	4.6
37.5°	5.7	5.7	5.6	5.1	4.9	4.6	4.6
35°	5.7	5.7	5.6	5.2	4.9	4.6	4.6
32.5°	5.7	5.7	5.7	5.3	4.9	4.6	4.6
30°	5.8	5.7	5.7	5.4	5.0	4.6	4.6
27.5°	6.0	5.7	5.7	5.4	5.1	4.6	4.6
25°	6.1	5.7	5.7	5.5	5.1	4.6	4.6
22.5°	6.2	5.7	5.7	5.6	5.2	4.6	4.6
20°	6.4	5.8	5.7	5.6	5.2	4.6	4.6
17.5°	6.6	5.9	5.7	5.6	5.3	4.6	4.6
15°	6.8	6.0	5.7	5.7	5.4	4.6	4.6
12.5°	7.0	6.1	5.7	5.7	5.4	4.6	4.6
10°	7.3	6.3	5.7	5.7	5.5	4.6	4.6
7.5°	7.5	6.4	5.7	5.7	5.5	4.6	4.6
5°	7.7	6.5	5.7	5.7	5.6	4.6	4.6
2.5°	7.8	6.7	5.7	5.7	5.6	4.6	4.6
0°	8.0	6.8	5.7	5.7	5.7	4.6	4.6
-2.5°	8.9	7.0	5.8	5.8	5.7	4.6	4.6
-5°	9.8	7.3	5.9	5.8	5.7	4.6	4.6
-7.5°	10.6	7.5	6.0	5.9	5.7	4.7	4.6
-10°	11.3	7.7	6.1	6.0	5.7	4.7	4.6
-12.5°	11.9	7.9	6.2	6.0	5.7	4.7	4.6
-15°	12.4	8.0	6.3	6.1	5.6	4.7	4.6
-17.5°	12.7	8.1	6.4	6.1	5.6	4.8	4.6
-20°	13.1	8.1	6.5	6.2	5.6	4.8	4.6



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	13.6	8.2	6.5	6.2	5.6	4.8	4.6
-25°	13.8	8.3	6.6	6.2	5.6	4.8	4.6
-27.5°	13.7	8.4	6.7	6.2	5.6	4.8	4.6
-30°	13.3	8.5	6.8	6.2	5.6	4.8	4.6
-32.5°	12.5	8.4	6.9	6.2	5.5	4.8	4.6
-35°	12.2	8.4	7.1	6.1	5.5	4.9	4.6
-37.5°	12.0	8.3	7.1	6.1	5.5	4.9	4.6
-40°	11.8	8.4	7.2	6.0	5.5	4.9	4.6
-42.5°	11.5	8.4	7.1	5.9	5.5	4.9	4.6
-45°	11.0	8.4	7.0	5.9	5.5	4.9	4.6
-47.5°	10.5	8.3	6.9	5.8	5.5	4.9	4.6
-50°	10.2	8.2	6.8	5.8	5.5	4.9	4.6
-52.5°	9.9	8.0	6.6	5.8	5.5	4.9	4.6
-55°	9.6	7.8	6.5	5.8	5.5	4.9	4.6
-57.5°	9.1	7.5	6.3	5.8	5.5	4.8	4.6
-60°	8.6	7.2	6.1	5.8	5.6	4.8	4.6
-62.5°	8.2	6.9	6.1	5.8	5.5	4.8	4.6
-65°	7.7	6.6	6.0	5.8	5.4	4.8	4.6
-67.5°	7.3	6.4	5.9	5.7	5.4	4.8	4.6
-70°	6.8	6.2	5.9	5.7	5.3	4.8	4.6
-72.5°	6.5	6.1	5.8	5.6	5.2	4.8	4.6
-75°	6.3	5.9	5.7	5.5	5.1	4.7	4.6
-77.5°	6.0	5.8	5.6	5.4	5.1	4.7	4.6
-80°	5.7	5.7	5.5	5.3	5.0	4.7	4.6
-82.5°	5.7	5.6	5.4	5.2	4.9	4.7	4.6
-85°	5.7	5.5	5.3	5.1	4.8	4.6	4.6
-87.5°	5.7	5.5	5.2	5.0	4.7	4.6	4.6
-90°	4.6	4.6	4.6	4.6	4.6	4.6	4.6

(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

