

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: P701616 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-70-4S-CV2-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701616 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-40-70-4S-CV2-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

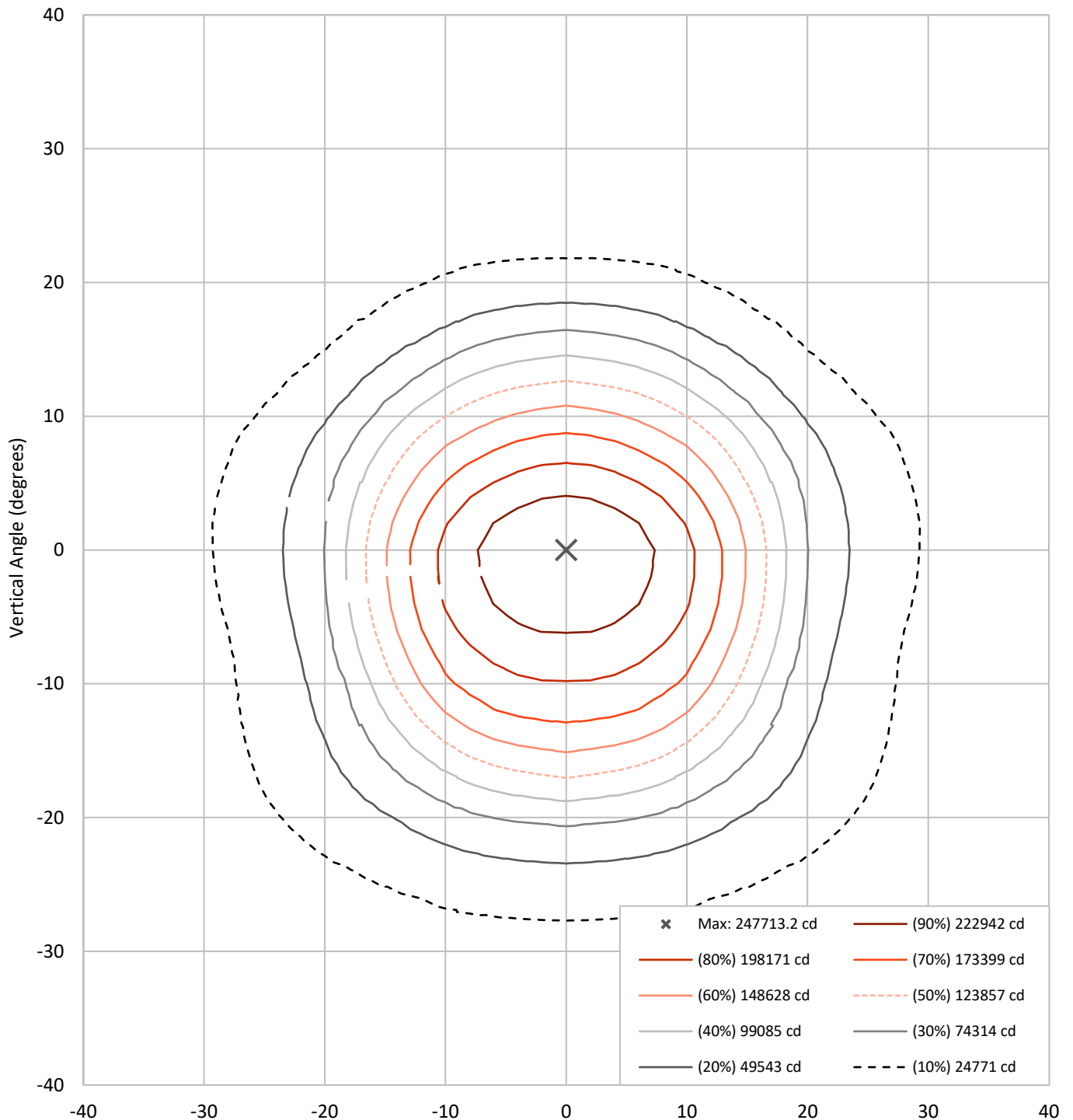
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	79279.4 lumens	Max Intensity:	247713.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	113.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.2°H x 29.7°V	Field Angle (10%):	58.6°H x 49.3°V
Beam Lumens:	43503.2 lumens	Field Lumens:	69701.5 lumens
Beam Efficiency:	54.9%	Field Efficiency:	87.9%

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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### Iso-Candela Plot





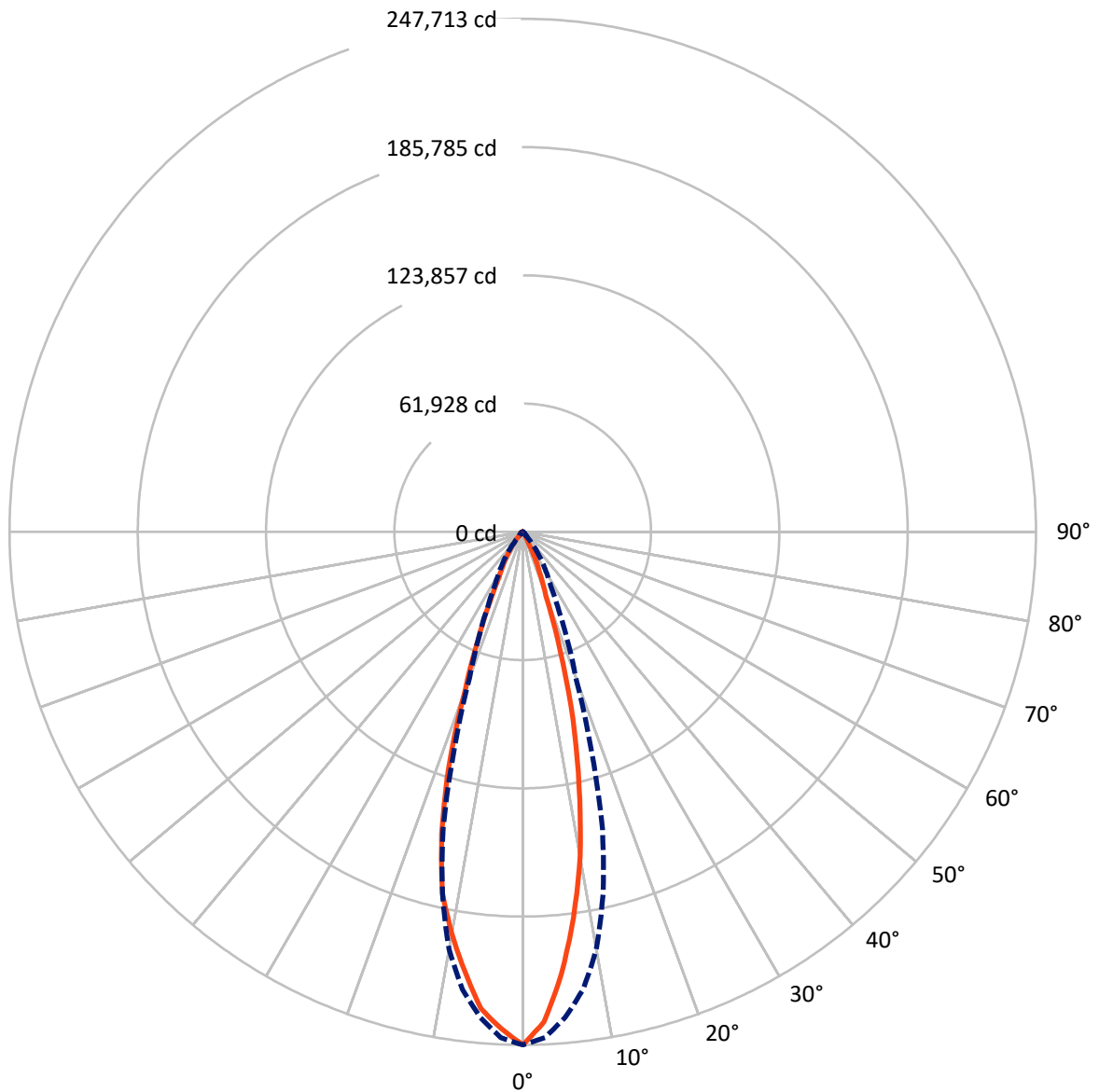
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### Lumen Table

90																			
80	0.2	0.5		0.7		0.6		0.5		0.6		0.7		0.5		0.2			
70																			
60	0.2	0.1	0.2	0.5	0.6	0.5	0.3	0.4	0.4	0.3	0.5	0.6	0.5	0.2	0.1	0.2			
50		0.1	0.3	0.9	0.9	0.4	0.3	0.4	0.4	0.3	0.4	0.9	0.9	0.3	0.1				
40	0.2	0.2	0.4	0.7	0.7	0.9	1.3	1.5	1.5	1.3	0.9	0.7	0.7	0.4	0.2	0.2			
30		0.2	0.9	1.9	3.3	7.5	15.0	20.6	20.6	15.0	7.5	3.3	1.9	0.9	0.2				
20	0.3	0.4	2.9	7.8	29.1	105.7	250.4	423.5	423.5	250.4	105.7	29.1	7.8	2.9	0.4	0.3			
10		1.0	6.5	20.9	128.4	444.4	1363.6	2576.4	2576.4	1363.6	444.4	128.4	20.9	6.5	1.0				
0	0.3	1.8	11.1	39.4	298.9	1064.8	3532.0	5967.8	5967.8	3532.0	1064.8	298.9	39.4	11.1	1.8	0.3			
-10		3.0	14.7	46.7	311.6	1098.0	3964.1	6551.9	6551.9	3964.1	1098.0	311.6	46.7	14.7	3.0				
-20	0.5	3.6	15.0	40.3	243.1	809.4	2367.5	4136.1	4136.1	2367.5	809.4	243.1	40.3	15.0	3.6	0.5			
-30		3.3	12.9	27.7	105.0	384.1	799.6	1196.7	1196.7	799.6	384.1	105.0	27.7	12.9	3.3				
-40	0.4	2.6	9.8	19.2	36.1	103.8	235.6	332.8	332.8	235.6	103.8	36.1	19.2	9.8	2.6	0.4			
-50		1.6	6.6	14.5	23.7	36.1	52.8	69.2	69.2	52.8	36.1	23.7	14.5	6.6	1.6				
-60	0.3	0.8	3.5	9.6	17.6	25.3	32.5	36.8	36.8	32.5	25.3	17.6	9.6	3.5	0.8	0.3			
-70		0.3	1.3	3.9	8.5	14.7	21.0	24.7	24.7	21.0	14.7	8.5	3.9	1.3	0.3				
-80	0.2	0.9		3.1		8.3		11.7		8.3		3.1		0.9		0.2			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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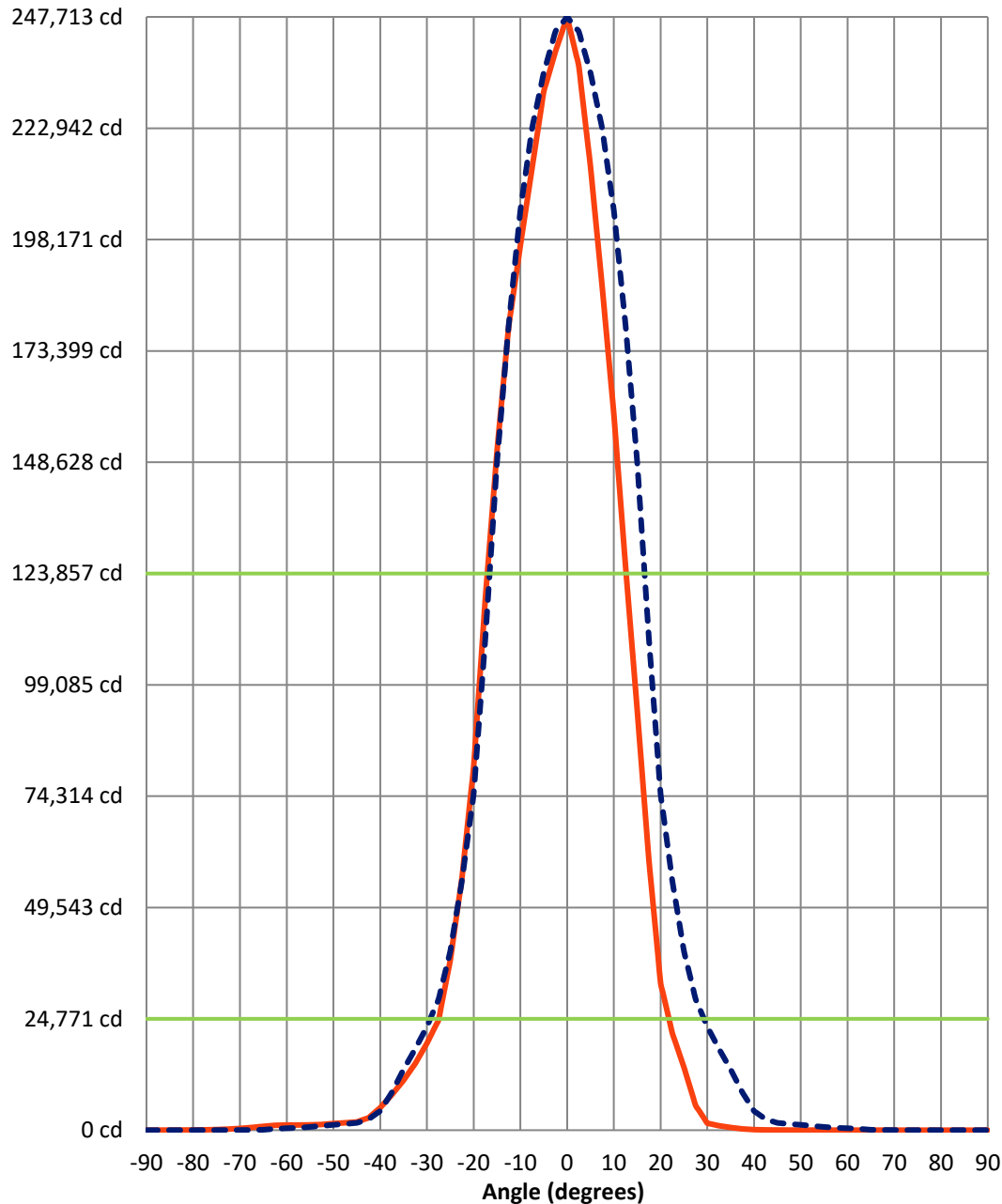
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 33.2°  
 V Angle: 29.7°  
 Lumens: 43503.2  
 Efficiency: 54.9%

**Field:**  
 H Angle: 58.6°  
 V Angle: 49.3°  
 Lumens: 69701.5  
 Efficiency: 87.9%

**Spill:**  
 Lumens: 9577.9  
 Efficiency: 12.1%

— 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°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
87.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
85°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
82.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.8	8.7
80°	8.7	8.7	8.7	8.7	8.7	8.7	8.8	9.0	9.1	9.0	8.8
77.5°	8.7	8.7	8.7	8.7	8.7	8.9	9.3	9.6	9.5	9.3	8.8
75°	8.7	8.7	8.7	8.7	8.8	9.3	9.9	10.1	9.9	9.4	8.9
72.5°	8.7	8.7	8.7	8.7	9.1	9.8	10.4	10.5	10.0	9.5	8.9
70°	8.7	8.7	8.7	8.8	9.5	10.2	10.9	10.6	10.0	9.5	9.6
67.5°	8.7	8.7	8.7	9.0	9.9	10.7	10.9	10.6	10.1	10.1	10.4
65°	8.7	8.7	8.7	9.3	10.2	10.9	10.9	10.7	10.4	10.6	10.9
62.5°	8.7	8.7	8.7	9.5	10.5	10.9	10.9	10.8	10.7	10.9	10.9
60°	8.7	8.7	8.7	9.8	10.9	10.9	10.9	10.9	10.9	10.9	10.9
57.5°	8.7	8.7	8.9	10.0	10.9	10.9	10.9	10.9	10.9	10.9	10.9
55°	8.7	8.7	9.0	10.3	10.9	10.9	10.9	10.9	10.9	10.9	10.9
52.5°	8.7	8.7	9.2	10.5	10.9	10.9	10.9	10.9	10.9	10.9	10.9
50°	8.7	8.7	9.3	10.7	10.9	10.9	10.9	10.9	10.9	10.9	11.9
47.5°	8.7	8.7	9.5	10.9	10.9	10.9	10.9	10.9	10.9	10.9	12.9
45°	8.7	8.7	9.6	10.9	10.9	10.9	10.9	10.9	11.0	11.6	13.7
42.5°	8.7	8.7	9.7	10.9	10.9	10.9	10.9	11.0	11.1	12.2	14.2
40°	8.7	8.7	9.9	10.9	10.9	10.9	10.9	11.2	11.5	12.7	14.7
37.5°	8.7	8.7	10.0	10.9	10.9	10.9	10.9	11.4	12.1	13.4	15.1
35°	8.7	8.7	10.1	10.9	10.9	10.9	10.9	11.6	12.7	14.1	15.5
32.5°	8.7	8.7	10.2	10.9	10.9	10.9	11.0	11.9	13.3	14.8	16.6
30°	8.7	8.7	10.3	10.9	10.9	10.9	11.2	12.3	13.9	15.5	18.0
27.5°	8.7	8.7	10.4	10.9	10.9	10.9	11.4	12.8	14.4	16.1	19.7
25°	8.7	8.7	10.5	10.9	10.9	10.9	11.7	13.2	15.0	17.2	21.8
22.5°	8.7	8.7	10.6	10.9	10.9	10.9	12.0	13.7	15.5	18.7	26.4
20°	8.7	8.7	10.6	10.9	10.9	11.1	12.3	14.1	15.9	20.4	31.0
17.5°	8.7	8.7	10.7	10.9	10.9	11.3	12.5	14.5	16.4	22.1	35.7
15°	8.7	8.7	10.7	10.9	10.9	11.5	12.7	14.9	16.8	24.0	40.3
12.5°	8.7	8.7	10.8	10.9	10.9	11.8	12.9	15.3	18.0	25.8	44.9
10°	8.7	8.7	10.8	10.9	10.9	12.0	13.0	15.8	19.9	30.1	51.2
7.5°	8.7	8.7	10.9	10.9	10.9	12.3	13.1	16.3	22.0	34.8	61.6
5°	8.7	8.7	10.9	10.9	10.9	12.6	13.1	16.7	24.2	39.4	72.0
2.5°	8.7	8.7	10.9	10.9	10.9	12.8	13.1	17.1	26.3	43.9	82.1
0°	8.7	8.7	10.9	10.9	10.9	13.1	13.1	17.5	28.4	48.1	91.7
-2.5°	8.7	8.7	10.9	10.9	10.9	13.1	14.3	20.9	36.6	63.7	118.7
-5°	8.7	8.7	10.9	10.9	10.9	13.1	15.4	24.1	44.5	78.5	144.1
-7.5°	8.7	8.7	10.9	10.9	10.9	13.0	16.4	27.1	51.7	92.3	167.3
-10°	8.7	8.7	10.8	10.9	10.9	12.9	17.3	29.8	58.0	104.5	187.6
-12.5°	8.7	8.7	10.8	10.9	10.9	12.8	18.0	32.0	63.3	114.9	201.0
-15°	8.7	8.7	10.7	10.9	10.9	12.7	18.6	33.8	67.8	122.9	209.9
-17.5°	8.7	8.7	10.7	10.9	10.9	12.6	18.8	35.6	71.4	128.8	215.7
-20°	8.7	8.7	10.6	10.9	10.9	12.4	19.3	37.4	73.5	132.5	218.5



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 CATALOG NUMBER: EPH-LS-08-0680R-40-70-4S-CV2-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	8.7	8.7	10.6	10.9	10.9	12.3	20.1	38.6	73.9	133.7	218.0
-25°	8.7	8.7	10.5	10.9	10.9	12.4	20.4	39.0	72.7	132.3	214.0
-27.5°	8.7	8.7	10.4	10.9	10.9	12.6	20.3	38.6	69.5	129.2	211.9
-30°	8.7	8.7	10.3	10.9	10.9	12.7	19.7	37.5	67.5	125.4	206.3
-32.5°	8.7	8.7	10.2	10.9	11.0	12.5	18.7	36.6	66.1	119.1	197.1
-35°	8.7	8.7	10.1	10.9	11.1	12.3	18.2	35.4	63.5	110.1	184.1
-37.5°	8.7	8.7	10.0	10.9	11.2	12.1	17.8	33.3	59.7	98.4	163.9
-40°	8.7	8.7	9.9	10.9	11.2	12.1	17.3	30.5	54.9	90.7	144.3
-42.5°	8.7	8.7	9.7	10.9	11.3	12.2	16.4	26.8	50.2	82.1	123.6
-45°	8.7	8.7	9.6	11.0	11.4	12.2	15.3	23.7	45.1	72.5	103.6
-47.5°	8.7	8.7	9.5	11.0	11.4	12.2	13.9	22.0	38.9	62.3	92.0
-50°	8.7	8.7	9.3	10.9	11.5	12.1	13.6	20.0	31.4	53.6	79.8
-52.5°	8.7	8.7	9.2	10.7	11.6	12.0	13.4	17.5	26.7	44.2	67.0
-55°	8.7	8.7	9.0	10.5	11.6	12.1	13.2	15.0	23.1	34.1	55.4
-57.5°	8.7	8.7	8.9	10.3	11.7	12.1	12.9	14.6	19.2	28.1	43.1
-60°	8.7	8.7	8.7	10.1	11.7	12.2	12.7	14.2	15.7	23.0	32.4
-62.5°	8.7	8.7	8.7	9.9	11.4	12.2	12.7	13.7	15.1	17.6	25.9
-65°	8.7	8.7	8.7	9.7	11.1	12.3	12.8	13.3	14.5	15.9	19.1
-67.5°	8.7	8.7	8.7	9.4	10.8	12.1	12.9	13.3	13.9	15.2	16.5
-70°	8.7	8.7	8.7	9.2	10.5	11.7	12.9	13.2	13.7	14.5	15.7
-72.5°	8.7	8.7	8.7	9.1	10.1	11.3	12.5	13.1	13.4	14.0	14.9
-75°	8.7	8.7	8.7	9.1	9.8	10.9	12.0	12.6	13.1	13.5	14.1
-77.5°	8.7	8.7	8.7	9.0	9.6	10.4	11.5	12.0	12.4	12.9	13.3
-80°	8.7	8.7	8.7	9.0	9.4	10.1	10.9	11.3	11.7	12.1	12.4
-82.5°	8.7	8.7	8.7	8.9	9.3	9.8	10.4	10.7	11.0	11.2	11.5
-85°	8.7	8.7	8.7	8.8	9.1	9.4	9.8	10.0	10.2	10.4	10.6
-87.5°	8.7	8.7	8.7	8.8	8.9	9.1	9.3	9.4	9.5	9.5	9.6
-90°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7





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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°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.2	7.7	7.1
87.5°	8.2	7.7	7.1	6.6	6.6	6.6	6.6	6.6	6.1	5.5	5.0
85°	8.2	7.7	7.3	6.9	6.9	6.9	6.8	6.6	6.3	6.1	5.9
82.5°	8.4	8.2	8.1	8.1	7.9	7.6	7.2	6.7	6.6	6.6	6.6
80°	8.6	8.7	8.7	8.7	8.3	7.7	7.2	6.7	6.6	6.7	6.7
77.5°	8.7	8.7	8.7	8.7	8.3	8.0	7.8	7.8	7.8	7.6	7.2
75°	8.7	8.7	8.8	8.8	8.6	8.6	8.7	8.7	8.4	7.9	7.3
72.5°	9.1	9.3	9.3	9.0	8.7	8.7	8.7	8.7	9.0	9.1	9.0
70°	9.9	10.0	9.6	9.1	8.7	9.1	10.2	11.3	12.1	12.2	12.5
67.5°	10.7	10.2	9.7	9.4	10.4	11.8	13.1	14.8	16.7	17.3	18.2
65°	10.8	10.3	10.3	11.3	12.9	14.6	16.6	18.8	23.5	26.4	27.8
62.5°	10.9	10.8	11.4	13.0	15.3	17.4	20.8	26.1	33.2	38.2	38.4
60°	10.9	11.1	12.8	15.2	17.5	20.4	25.5	33.6	44.3	52.3	47.7
57.5°	10.9	12.1	14.7	17.1	19.5	22.7	30.6	41.0	51.9	63.5	54.2
55°	11.5	13.9	16.4	18.6	21.5	25.8	33.9	43.7	55.7	59.0	48.5
52.5°	12.9	15.4	17.3	19.9	23.7	27.8	33.4	42.0	45.8	46.7	40.4
50°	14.2	16.1	18.2	21.2	25.1	28.5	30.2	35.3	36.8	34.9	31.5
47.5°	15.0	16.8	18.7	22.2	26.0	28.9	29.0	29.2	28.7	28.2	23.2
45°	15.6	17.5	19.4	23.2	27.3	29.8	28.4	24.3	27.7	26.7	25.5
42.5°	16.2	18.1	21.3	24.3	29.7	31.3	29.0	30.1	31.0	32.3	32.8
40°	16.7	18.7	23.9	29.8	32.9	33.6	37.2	40.0	38.7	42.4	44.5
37.5°	17.2	21.7	28.9	39.8	36.3	41.1	47.9	58.8	59.2	55.8	64.1
35°	17.6	25.1	41.2	52.9	50.1	53.0	71.0	85.2	89.5	84.8	90.2
32.5°	19.7	28.9	56.6	68.8	75.8	79.4	99.8	121.4	137.6	140.8	127.5
30°	23.8	42.9	74.3	88.0	108.3	128.0	142.1	168.2	201.6	227.6	238.3
27.5°	29.0	60.0	92.7	117.6	148.5	182.0	206.5	239.0	293.4	340.0	378.4
25°	34.6	83.4	113.4	153.7	199.6	243.0	280.7	335.0	406.9	484.4	619.0
22.5°	47.0	109.9	144.4	193.5	254.2	308.5	371.3	448.5	540.6	646.9	896.6
20°	67.3	136.1	181.8	238.0	312.9	377.2	465.8	564.3	690.0	916.7	1340.5
17.5°	89.0	164.2	220.0	290.6	383.5	464.8	564.2	679.4	845.8	1208.5	2043.4
15°	111.5	193.7	256.6	346.3	460.8	576.7	696.7	822.1	1060.3	1621.4	2938.4
12.5°	134.2	224.1	291.2	403.9	542.6	693.6	836.7	996.2	1340.7	2331.1	4264.3
10°	156.6	254.6	324.0	462.1	627.0	813.0	975.4	1163.2	1632.0	2974.0	5449.9
7.5°	193.5	294.4	359.0	519.4	711.9	932.4	1111.6	1322.4	1916.7	3534.4	6541.9
5°	232.4	343.3	414.9	589.5	795.7	1038.9	1234.7	1472.5	2186.2	4005.8	7566.2
2.5°	269.6	390.3	469.5	656.9	874.3	1121.6	1312.9	1556.5	2330.4	4226.1	8198.8
0°	303.6	434.7	522.1	718.7	945.9	1194.9	1382.8	1629.6	2418.3	4268.5	8401.6
-2.5°	344.8	483.5	576.5	767.8	985.0	1238.0	1427.1	1685.2	2509.2	4507.3	8438.3
-5°	380.2	528.6	628.4	811.6	1017.9	1271.6	1464.2	1728.5	2551.6	4615.9	8260.9
-7.5°	408.9	569.9	677.4	846.2	1034.9	1278.3	1477.8	1735.6	2522.0	4560.0	7897.8
-10°	426.1	587.3	689.3	845.7	1029.3	1264.1	1477.9	1729.4	2436.8	4327.8	7388.0
-12.5°	413.6	582.5	691.4	839.3	1018.8	1240.2	1467.4	1709.5	2291.8	3899.2	6791.5
-15°	398.2	574.7	690.0	827.0	1003.8	1206.7	1445.6	1675.8	2065.7	3234.7	6054.7
-17.5°	380.4	564.0	684.7	808.8	984.7	1163.4	1401.2	1587.8	1831.8	2756.0	5205.3
-20°	361.2	550.6	675.5	784.6	961.3	1101.1	1296.8	1489.0	1711.5	2343.6	4062.8



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	341.1	534.4	660.0	768.9	901.8	1029.4	1186.8	1375.2	1579.1	1831.3	2847.5
-25°	329.4	504.3	637.9	732.5	837.4	956.2	1074.0	1247.9	1440.9	1644.1	2178.8
-27.5°	323.2	475.1	601.7	696.2	775.3	883.0	983.1	1121.9	1300.9	1474.6	1644.0
-30°	312.8	433.7	564.8	658.5	730.3	815.1	901.4	1014.0	1172.8	1325.3	1465.8
-32.5°	290.2	391.7	519.3	616.5	690.4	752.2	837.5	938.1	1060.2	1192.7	1305.8
-35°	262.5	358.6	470.4	574.7	651.2	709.7	786.5	871.0	960.7	1075.5	1210.8
-37.5°	236.8	322.6	421.6	527.8	606.0	677.3	736.3	812.3	889.8	974.8	1110.1
-40°	209.2	283.8	377.5	475.1	565.7	639.6	700.9	757.8	825.5	910.5	1000.9
-42.5°	180.5	251.2	332.3	423.5	514.4	594.1	663.7	716.2	774.0	847.2	927.7
-45°	156.6	216.7	286.1	372.4	458.2	542.1	613.0	679.2	734.6	788.5	858.0
-47.5°	131.7	182.9	246.7	320.3	401.8	480.5	557.3	630.4	700.9	751.2	793.8
-50°	109.0	154.8	206.9	274.4	345.5	419.2	491.1	576.6	651.3	714.9	764.4
-52.5°	94.6	125.8	173.7	229.1	293.1	359.3	430.4	509.1	590.0	665.5	723.5
-55°	79.3	106.2	140.0	187.9	242.2	302.3	368.8	441.0	514.6	590.4	664.6
-57.5°	64.5	88.5	114.2	147.6	194.6	246.0	307.0	371.1	438.8	507.7	576.3
-60°	49.6	70.6	93.9	118.3	147.0	193.2	243.6	300.0	360.3	422.1	484.0
-62.5°	35.4	52.6	73.0	95.1	117.9	143.0	183.7	230.6	279.3	330.6	384.4
-65°	27.5	36.5	51.6	71.0	91.7	113.7	137.9	164.4	204.9	244.7	282.6
-67.5°	19.3	27.6	35.7	45.8	63.5	82.4	102.7	124.7	148.2	171.4	198.6
-70°	17.2	19.5	26.0	33.3	40.2	49.5	66.1	83.8	102.0	119.6	138.9
-72.5°	16.1	17.9	20.2	23.0	28.8	34.6	40.3	45.7	56.5	70.9	85.1
-75°	15.0	16.1	17.7	19.8	22.1	24.5	27.4	32.3	36.7	41.1	45.4
-77.5°	13.9	14.6	15.6	16.7	18.1	19.9	21.9	24.0	25.8	27.6	29.4
-80°	12.7	13.1	13.6	14.3	15.2	16.1	17.2	18.4	19.3	20.3	21.4
-82.5°	11.7	12.0	12.2	12.5	12.6	12.9	13.2	13.9	14.5	15.0	15.6
-85°	10.7	10.9	11.1	11.2	11.0	10.8	10.6	10.5	10.8	11.0	11.3
-87.5°	9.7	9.8	9.9	10.0	9.7	9.4	9.1	8.7	8.6	8.5	8.4
-90°	8.2	7.7	7.1	6.6	6.6	6.6	6.6	6.6	6.1	5.5	5.0



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	6.6	6.6	6.6	6.6	6.6	7.7	8.8	9.8	10.9	12.0	13.1
87.5°	4.4	4.4	4.4	4.4	4.4	3.9	3.3	2.8	2.2	2.2	2.2
85°	5.8	5.5	5.2	4.8	4.4	4.3	4.3	4.2	4.3	3.8	3.3
82.5°	6.6	6.1	5.5	5.0	4.4	4.4	4.4	4.4	4.4	3.9	3.3
80°	6.6	6.1	5.6	5.0	4.5	4.4	4.4	4.4	4.4	3.9	3.3
77.5°	6.7	6.3	5.9	5.7	5.6	5.5	5.2	4.9	4.5	3.9	3.4
75°	6.8	6.7	6.8	6.8	6.7	6.2	5.6	5.1	4.5	4.3	4.3
72.5°	8.6	8.2	8.1	8.3	8.3	8.1	7.6	7.1	6.3	6.2	6.4
70°	12.8	13.0	13.2	13.0	12.2	11.2	10.3	9.4	8.5	8.3	8.4
67.5°	19.4	19.6	19.0	17.6	15.3	13.3	12.5	11.6	10.7	10.4	10.6
65°	27.8	25.7	23.5	21.0	18.2	15.1	14.2	13.4	12.7	12.8	13.5
62.5°	36.0	29.3	23.6	20.0	17.3	15.1	14.1	13.1	12.2	11.7	12.1
60°	39.6	28.0	20.4	18.1	15.8	13.5	12.2	11.1	10.2	9.5	9.9
57.5°	39.7	27.5	18.9	16.1	13.7	11.6	10.5	9.9	9.3	8.8	9.4
55°	35.3	24.4	16.0	13.8	12.4	11.4	10.8	10.6	10.4	10.1	10.5
52.5°	28.4	20.5	14.9	12.9	13.0	13.0	12.9	12.9	13.2	13.5	14.1
50°	22.6	17.4	15.8	14.9	15.4	15.5	15.2	16.0	17.2	17.8	18.4
47.5°	20.7	19.0	19.2	18.7	19.5	21.0	21.3	21.9	23.6	24.7	25.4
45°	23.0	24.7	25.7	27.5	28.6	31.1	31.9	32.0	35.6	38.0	39.3
42.5°	32.2	35.0	38.4	41.8	43.6	46.8	50.1	51.8	57.3	61.6	63.3
40°	48.6	50.2	57.4	61.8	65.1	69.1	79.2	85.9	96.4	116.1	130.3
37.5°	71.4	76.7	81.0	87.2	100.9	107.6	140.0	169.3	189.5	238.3	265.8
35°	104.6	119.0	114.0	142.0	176.5	220.0	267.3	337.7	393.5	459.5	520.4
32.5°	164.0	199.1	233.0	265.4	343.2	467.8	471.3	603.0	691.3	798.2	892.3
30°	259.4	383.5	539.6	591.3	810.1	1054.7	986.8	1189.0	1389.4	1508.5	1920.0
27.5°	511.9	791.5	1101.7	1495.9	1903.6	2324.0	2602.5	2699.9	3713.6	4459.0	5429.2
25°	875.9	1366.5	2233.0	2871.4	3587.3	4521.0	5060.5	5786.6	7477.5	9584.5	11221.2
22.5°	1395.8	2253.1	3398.0	4363.9	5437.1	6695.5	7833.6	9574.4	12203.8	15079.9	17526.6
20°	1978.5	3083.8	4534.4	5981.7	7388.4	9028.4	11008.6	14563.4	18626.1	23134.5	27210.3
17.5°	3053.6	4140.5	5998.2	7976.7	9975.4	11950.7	16305.3	21569.9	27929.7	34610.1	40543.5
15°	4589.9	6348.9	8191.6	10807.7	14134.4	17930.5	23445.3	32679.1	42556.5	52982.4	65411.5
12.5°	6594.8	9145.0	11909.1	14938.2	19448.6	26378.2	35526.6	46797.3	60935.6	76577.0	94263.2
10°	8640.8	12318.6	16125.2	20451.3	26396.1	35321.8	47136.3	61248.4	83482.9	105398.0	123856.6
7.5°	10304.2	14590.4	19393.1	25139.8	32888.1	43763.8	58363.9	78759.2	105275.1	131350.1	152000.1
5°	11865.0	16573.4	21573.2	27444.7	36786.0	49901.0	67483.8	92929.7	124651.6	152382.9	174510.4
2.5°	12997.0	17943.0	23115.5	29089.8	39739.8	53631.8	72935.7	104499.6	141011.4	169423.7	194795.3
0°	13498.1	18074.7	23022.6	29152.4	39836.8	55534.8	74826.2	109385.3	148584.2	179129.2	204614.9
-2.5°	12876.8	17319.9	22425.9	28414.2	39124.6	54204.6	74132.1	108835.1	148168.8	179146.3	204272.9
-5°	12219.4	16431.6	21171.5	26706.8	36473.2	50494.9	70826.5	103983.9	141728.9	172872.0	197382.8
-7.5°	11518.6	15373.8	19614.4	24580.7	33245.0	46738.1	65617.2	93602.1	128883.5	160592.6	183645.0
-10°	10717.5	14227.0	18686.5	23950.1	31492.8	43221.8	58834.7	81254.1	114299.8	143760.8	169070.9
-12.5°	10247.0	13990.5	18446.6	23281.4	29365.7	39702.1	53907.7	73031.8	95652.5	123018.7	145539.6
-15°	9642.4	13431.6	17851.0	22386.9	28018.8	36089.1	47305.1	61351.8	78564.1	97005.6	116995.1
-17.5°	8648.4	12435.4	15994.3	20251.5	25600.7	31976.8	40036.9	50938.1	62358.5	75425.1	87384.7
-20°	7011.4	10070.4	13436.1	17447.3	22045.7	26877.5	32260.0	39687.7	46932.1	56079.9	63423.8



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5044.4	7630.0	10546.0	13861.0	17502.5	21639.2	25693.9	29613.7	34578.6	40369.1	46269.8
-25°	3285.3	5198.2	7723.2	10440.1	12983.4	16289.3	19202.4	21543.4	24891.3	27511.4	31087.3
-27.5°	2274.9	3518.3	5399.2	7564.0	9570.1	11686.0	14057.6	15655.8	18263.8	19681.2	21873.2
-30°	1664.6	2362.4	3715.2	5334.3	7082.0	8883.2	10576.2	12333.4	14147.6	15751.9	16968.4
-32.5°	1476.2	1750.2	2417.4	3582.8	4950.3	6460.6	7894.3	9426.2	10871.4	12115.0	13118.5
-35°	1348.2	1502.0	1711.5	2327.7	3143.8	4323.0	5450.8	6690.9	7851.7	8813.0	9618.7
-37.5°	1246.9	1370.0	1501.9	1637.1	2095.3	2611.3	3413.0	4274.8	5019.8	5870.8	6528.2
-40°	1131.8	1263.3	1369.0	1476.9	1598.3	1727.8	2161.8	2547.6	2968.6	3543.1	4012.6
-42.5°	1013.1	1127.6	1246.5	1347.0	1438.6	1535.4	1632.9	1719.4	1933.1	2186.4	2378.7
-45°	931.0	1011.9	1099.1	1205.6	1304.2	1388.1	1467.0	1542.6	1620.2	1691.8	1751.3
-47.5°	858.6	924.1	995.8	1069.0	1143.1	1229.4	1310.3	1387.1	1454.4	1515.5	1564.7
-50°	805.8	851.0	910.8	968.5	1031.9	1092.0	1145.7	1208.7	1277.6	1340.2	1390.3
-52.5°	779.1	818.6	852.9	894.3	951.6	1002.0	1046.2	1096.0	1143.9	1187.8	1219.9
-55°	726.5	778.3	828.4	874.9	914.4	950.4	988.7	1037.7	1079.7	1115.9	1135.8
-57.5°	644.1	710.6	773.6	832.7	888.3	940.6	984.0	1022.8	1061.8	1098.7	1115.8
-60°	546.8	610.4	676.1	747.2	818.9	890.3	942.9	993.0	1040.3	1080.0	1101.0
-62.5°	442.2	500.1	559.0	623.0	691.1	758.0	815.3	875.1	936.5	989.3	1023.0
-65°	323.4	372.7	425.4	477.9	529.8	583.2	634.3	684.6	733.5	773.2	800.7
-67.5°	231.8	263.6	296.3	329.9	370.1	411.3	449.1	485.7	520.7	548.7	569.3
-70°	159.3	179.9	199.1	220.6	246.3	271.3	294.7	316.8	337.5	355.1	369.8
-72.5°	99.1	112.5	125.9	141.0	155.6	169.6	182.8	195.2	206.6	217.1	226.4
-75°	49.8	56.1	66.6	76.7	86.2	96.0	105.1	113.1	120.1	125.9	130.8
-77.5°	32.3	36.3	40.2	43.8	47.2	51.8	56.8	62.0	67.1	71.2	75.0
-80°	22.6	24.8	27.2	29.6	32.0	34.9	37.8	40.7	43.6	45.4	47.0
-82.5°	16.1	17.3	18.7	20.1	21.5	23.5	25.6	27.6	29.6	31.0	32.4
-85°	11.5	12.1	12.7	13.4	14.0	15.9	17.7	19.5	21.3	22.5	23.8
-87.5°	8.3	8.4	8.4	8.5	8.5	10.1	11.8	13.5	15.1	15.8	16.3
-90°	4.4	4.4	4.4	4.4	4.4	3.9	3.3	2.8	2.2	2.2	2.2



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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°	14.2	15.3	15.3	15.3	15.3	15.3	14.2	13.1	12.0	10.9	9.8
87.5°	2.2	2.2	1.1	0.0	1.1	2.2	2.2	2.2	2.2	2.2	2.8
85°	2.7	2.2	2.2	2.2	2.2	2.2	2.7	3.3	3.8	4.3	4.2
82.5°	2.8	2.2	2.2	2.2	2.2	2.2	2.8	3.3	3.9	4.4	4.4
80°	2.8	2.2	2.2	2.2	2.2	2.2	2.8	3.3	3.9	4.4	4.4
77.5°	2.8	2.2	2.2	2.2	2.2	2.2	2.8	3.4	3.9	4.5	4.9
75°	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.5	5.1
72.5°	6.5	6.5	6.6	6.6	6.6	6.5	6.5	6.4	6.2	6.3	7.1
70°	8.6	8.6	7.7	6.6	7.7	8.6	8.6	8.4	8.3	8.5	9.4
67.5°	10.7	10.8	11.9	13.1	11.9	10.8	10.7	10.6	10.4	10.7	11.6
65°	14.2	15.0	14.3	13.1	14.3	15.0	14.2	13.5	12.8	12.7	13.4
62.5°	12.6	13.1	12.2	10.9	12.2	13.1	12.6	12.1	11.7	12.2	13.1
60°	10.3	10.8	10.9	10.9	10.9	10.8	10.3	9.9	9.5	10.2	11.1
57.5°	10.0	10.7	10.9	10.9	10.9	10.7	10.0	9.4	8.8	9.3	9.9
55°	10.8	10.9	10.9	10.9	10.9	10.9	10.8	10.5	10.1	10.4	10.6
52.5°	14.6	15.0	15.2	15.3	15.2	15.0	14.6	14.1	13.5	13.2	12.9
50°	19.0	19.4	19.6	19.7	19.6	19.4	19.0	18.4	17.8	17.2	16.0
47.5°	26.0	26.0	26.1	26.2	26.1	26.0	26.0	25.4	24.7	23.6	21.9
45°	39.9	39.4	39.0	39.3	39.0	39.4	39.9	39.3	38.0	35.6	32.0
42.5°	64.9	65.1	64.9	65.5	64.9	65.1	64.9	63.3	61.6	57.3	51.8
40°	134.2	129.4	122.5	122.3	122.5	129.4	134.2	130.3	116.1	96.4	85.9
37.5°	279.4	284.3	283.7	288.4	283.7	284.3	279.4	265.8	238.3	189.5	169.3
35°	566.7	592.1	597.9	596.4	597.9	592.1	566.7	520.4	459.5	393.5	337.7
32.5°	933.3	967.1	976.6	989.6	976.6	967.1	933.3	892.3	798.2	691.3	603.0
30°	1640.9	1686.4	1643.2	1555.4	1643.2	1686.4	1640.9	1920.0	1508.5	1389.4	1189.0
27.5°	5946.0	6164.0	5673.2	5494.1	5673.2	6164.0	5946.0	5429.2	4459.0	3713.6	2699.9
25°	12117.7	13082.2	14070.7	13983.1	14070.7	13082.2	12117.7	11221.2	9584.5	7477.5	5786.6
22.5°	19556.4	20533.7	21348.3	21628.9	21348.3	20533.7	19556.4	17526.6	15079.9	12203.8	9574.4
20°	30975.7	32879.1	34242.1	32789.6	34242.1	32879.1	30975.7	27210.3	23134.5	18626.1	14563.4
17.5°	49512.8	55244.6	58222.3	60102.6	58222.3	55244.6	49512.8	40543.5	34610.1	27929.7	21569.9
15°	76860.1	85504.3	90293.3	93464.5	90293.3	85504.3	76860.1	65411.5	52982.4	42556.5	32679.1
12.5°	108398.3	117823.1	122055.8	125510.3	122055.8	117823.1	108398.3	94263.2	76577.0	60935.6	46797.3
10°	138379.6	148561.8	155611.4	159275.2	155611.4	148561.8	138379.6	123856.6	105398.0	83482.9	61248.4
7.5°	165849.8	178305.4	185459.1	187736.3	185459.1	178305.4	165849.8	152000.1	131350.1	105275.1	78759.2
5°	192719.2	203832.4	212435.5	214386.2	212435.5	203832.4	192719.2	174510.4	152382.9	124651.6	92929.7
2.5°	213407.5	226726.4	234450.3	236785.2	234450.3	226726.4	213407.5	194795.3	169423.7	141011.4	104499.6
0°	222888.3	235287.7	244433.1	247713.2	244433.1	235287.7	222888.3	204614.9	179129.2	148584.2	109385.3
-2.5°	220905.3	232332.0	238878.3	240006.3	238878.3	232332.0	220905.3	204272.9	179146.3	148168.8	108835.1
-5°	213930.9	224429.6	230895.3	231080.3	230895.3	224429.6	213930.9	197382.8	172872.0	141728.9	103983.9
-7.5°	198611.2	208428.7	212936.3	214068.4	212936.3	208428.7	198611.2	183645.0	160592.6	128883.5	93602.1
-10°	183018.6	192126.8	196386.3	196857.7	196386.3	192126.8	183018.6	169070.9	143760.8	114299.8	81254.1
-12.5°	162821.3	172567.0	176820.0	178820.1	176820.0	172567.0	162821.3	145539.6	123018.7	95652.5	73031.8
-15°	132765.3	142189.3	147291.7	151059.3	147291.7	142189.3	132765.3	116995.1	97005.6	78564.1	61351.8
-17.5°	100560.5	108638.2	113666.4	118243.5	113666.4	108638.2	100560.5	87384.7	75425.1	62358.5	50938.1
-20°	71594.8	76739.0	78319.1	80785.6	78319.1	76739.0	71594.8	63423.8	56079.9	46932.1	39687.7



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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°	50284.7	53209.5	55062.2	56109.3	55062.2	53209.5	50284.7	46269.8	40369.1	34578.6	29613.7
-25°	34089.5	36117.9	36906.8	37816.2	36906.8	36117.9	34089.5	31087.3	27511.4	24891.3	21543.4
-27.5°	22834.5	23667.5	24236.4	24545.2	24236.4	23667.5	22834.5	21873.2	19681.2	18263.8	15655.8
-30°	17947.6	18709.3	19166.1	19311.1	19166.1	18709.3	17947.6	16968.4	15751.9	14147.6	12333.4
-32.5°	13895.4	14471.2	14779.0	14819.8	14779.0	14471.2	13895.4	13118.5	12115.0	10871.4	9426.2
-35°	10294.2	10818.6	11108.9	11088.6	11108.9	10818.6	10294.2	9618.7	8813.0	7851.7	6690.9
-37.5°	7093.5	7538.1	7810.8	7881.7	7810.8	7538.1	7093.5	6528.2	5870.8	5019.8	4274.8
-40°	4437.7	4764.2	4959.2	4985.1	4959.2	4764.2	4437.7	4012.6	3543.1	2968.6	2547.6
-42.5°	2547.4	2679.7	2753.9	2750.3	2753.9	2679.7	2547.4	2378.7	2186.4	1933.1	1719.4
-45°	1790.3	1819.9	1836.6	1839.4	1836.6	1819.9	1790.3	1751.3	1691.8	1620.2	1542.6
-47.5°	1600.2	1628.2	1643.2	1644.9	1643.2	1628.2	1600.2	1564.7	1515.5	1454.4	1387.1
-50°	1430.3	1463.6	1481.7	1485.5	1481.7	1463.6	1430.3	1390.3	1340.2	1277.6	1208.7
-52.5°	1245.9	1267.9	1275.3	1271.4	1275.3	1267.9	1245.9	1219.9	1187.8	1143.9	1096.0
-55°	1154.4	1172.3	1180.0	1181.8	1180.0	1172.3	1154.4	1135.8	1115.9	1079.7	1037.7
-57.5°	1132.3	1148.3	1153.3	1153.4	1153.3	1148.3	1132.3	1115.8	1098.7	1061.8	1022.8
-60°	1121.7	1141.8	1145.6	1142.5	1145.6	1141.8	1121.7	1101.0	1080.0	1040.3	993.0
-62.5°	1053.0	1078.6	1086.8	1085.7	1086.8	1078.6	1053.0	1023.0	989.3	936.5	875.1
-65°	824.0	842.9	852.5	856.3	852.5	842.9	824.0	800.7	773.2	733.5	684.6
-67.5°	586.2	599.2	603.4	602.9	603.4	599.2	586.2	569.3	548.7	520.7	485.7
-70°	382.2	392.3	393.3	391.0	393.3	392.3	382.2	369.8	355.1	337.5	316.8
-72.5°	234.6	241.5	240.8	238.1	240.8	241.5	234.6	226.4	217.1	206.6	195.2
-75°	135.0	138.4	137.4	135.4	137.4	138.4	135.0	130.8	125.9	120.1	113.1
-77.5°	78.7	82.2	82.8	83.0	82.8	82.2	78.7	75.0	71.2	67.1	62.0
-80°	48.5	49.9	50.1	50.2	50.1	49.9	48.5	47.0	45.4	43.6	40.7
-82.5°	33.6	34.9	35.0	35.0	35.0	34.9	33.6	32.4	31.0	29.6	27.6
-85°	24.9	26.1	26.2	26.2	26.2	26.1	24.9	23.8	22.5	21.3	19.5
-87.5°	16.9	17.5	17.5	17.5	17.5	17.5	16.9	16.3	15.8	15.1	13.5
-90°	2.2	2.2	1.1	0.0	1.1	2.2	2.2	2.2	2.2	2.2	2.8



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	8.8	7.7	6.6	6.6	6.6	6.6	6.6	7.1	7.7	8.2	8.7
87.5°	3.3	3.9	4.4	4.4	4.4	4.4	4.4	5.0	5.5	6.1	6.6
85°	4.3	4.3	4.4	4.8	5.2	5.5	5.8	5.9	6.1	6.3	6.6
82.5°	4.4	4.4	4.4	5.0	5.5	6.1	6.6	6.6	6.6	6.6	6.7
80°	4.4	4.4	4.5	5.0	5.6	6.1	6.6	6.7	6.7	6.6	6.7
77.5°	5.2	5.5	5.6	5.7	5.9	6.3	6.7	7.2	7.6	7.8	7.8
75°	5.6	6.2	6.7	6.8	6.8	6.7	6.8	7.3	7.9	8.4	8.7
72.5°	7.6	8.1	8.3	8.3	8.1	8.2	8.6	9.0	9.1	9.0	8.7
70°	10.3	11.2	12.2	13.0	13.2	13.0	12.8	12.5	12.2	12.1	11.3
67.5°	12.5	13.3	15.3	17.6	19.0	19.6	19.4	18.2	17.3	16.7	14.8
65°	14.2	15.1	18.2	21.0	23.5	25.7	27.8	27.8	26.4	23.5	18.8
62.5°	14.1	15.1	17.3	20.0	23.6	29.3	36.0	38.4	38.2	33.2	26.1
60°	12.2	13.5	15.8	18.1	20.4	28.0	39.6	47.7	52.3	44.3	33.6
57.5°	10.5	11.6	13.7	16.1	18.9	27.5	39.7	54.2	63.5	51.9	41.0
55°	10.8	11.4	12.4	13.8	16.0	24.4	35.3	48.5	59.0	55.7	43.7
52.5°	12.9	13.0	13.0	12.9	14.9	20.5	28.4	40.4	46.7	45.8	42.0
50°	15.2	15.5	15.4	14.9	15.8	17.4	22.6	31.5	34.9	36.8	35.3
47.5°	21.3	21.0	19.5	18.7	19.2	19.0	20.7	23.2	28.2	28.7	29.2
45°	31.9	31.1	28.6	27.5	25.7	24.7	23.0	25.5	26.7	27.7	24.3
42.5°	50.1	46.8	43.6	41.8	38.4	35.0	32.2	32.8	32.3	31.0	30.1
40°	79.2	69.1	65.1	61.8	57.4	50.2	48.6	44.5	42.4	38.7	40.0
37.5°	140.0	107.6	100.9	87.2	81.0	76.7	71.4	64.1	55.8	59.2	58.8
35°	267.3	220.0	176.5	142.0	114.0	119.0	104.6	90.2	84.8	89.5	85.2
32.5°	471.3	467.8	343.2	265.4	233.0	199.1	164.0	127.5	140.8	137.6	121.4
30°	986.8	1054.7	810.1	591.3	539.6	383.5	259.4	238.3	227.6	201.6	168.2
27.5°	2602.5	2324.0	1903.6	1495.9	1101.7	791.5	511.9	378.4	340.0	293.4	239.0
25°	5060.5	4521.0	3587.3	2871.4	2233.0	1366.5	875.9	619.0	484.4	406.9	335.0
22.5°	7833.6	6695.5	5437.1	4363.9	3398.0	2253.1	1395.8	896.6	646.9	540.6	448.5
20°	11008.6	9028.4	7388.4	5981.7	4534.4	3083.8	1978.5	1340.5	916.7	690.0	564.3
17.5°	16305.3	11950.7	9975.4	7976.7	5998.2	4140.5	3053.6	2043.4	1208.5	845.8	679.4
15°	23445.3	17930.5	14134.4	10807.7	8191.6	6348.9	4589.9	2938.4	1621.4	1060.3	822.1
12.5°	35526.6	26378.2	19448.6	14938.2	11909.1	9145.0	6594.8	4264.3	2331.1	1340.7	996.2
10°	47136.3	35321.8	26396.1	20451.3	16125.2	12318.6	8640.8	5449.9	2974.0	1632.0	1163.2
7.5°	58363.9	43763.8	32888.1	25139.8	19393.1	14590.4	10304.2	6541.9	3534.4	1916.7	1322.4
5°	67483.8	49901.0	36786.0	27444.7	21573.2	16573.4	11865.0	7566.2	4005.8	2186.2	1472.5
2.5°	72935.7	53631.8	39739.8	29089.8	23115.5	17943.0	12997.0	8198.8	4226.1	2330.4	1556.5
0°	74826.2	55534.8	39836.8	29152.4	23022.6	18074.7	13498.1	8401.6	4268.5	2418.3	1629.6
-2.5°	74132.1	54204.6	39124.6	28414.2	22425.9	17319.9	12876.8	8438.3	4507.3	2509.2	1685.2
-5°	70826.5	50494.9	36473.2	26706.8	21171.5	16431.6	12219.4	8260.9	4615.9	2551.6	1728.5
-7.5°	65617.2	46738.1	33245.0	24580.7	19614.4	15373.8	11518.6	7897.8	4560.0	2522.0	1735.6
-10°	58834.7	43221.8	31492.8	23950.1	18686.5	14227.0	10717.5	7388.0	4327.8	2436.8	1729.4
-12.5°	53907.7	39702.1	29365.7	23281.4	18446.6	13990.5	10247.0	6791.5	3899.2	2291.8	1709.5
-15°	47305.1	36089.1	28018.8	22386.9	17851.0	13431.6	9642.4	6054.7	3234.7	2065.7	1675.8
-17.5°	40036.9	31976.8	25600.7	20251.5	15994.3	12435.4	8648.4	5205.3	2756.0	1831.8	1587.8
-20°	32260.0	26877.5	22045.7	17447.3	13436.1	10070.4	7011.4	4062.8	2343.6	1711.5	1489.0





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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	25693.9	21639.2	17502.5	13861.0	10546.0	7630.0	5044.4	2847.5	1831.3	1579.1	1375.2
-25°	19202.4	16289.3	12983.4	10440.1	7723.2	5198.2	3285.3	2178.8	1644.1	1440.9	1247.9
-27.5°	14057.6	11686.0	9570.1	7564.0	5399.2	3518.3	2274.9	1644.0	1474.6	1300.9	1121.9
-30°	10576.2	8883.2	7082.0	5334.3	3715.2	2362.4	1664.6	1465.8	1325.3	1172.8	1014.0
-32.5°	7894.3	6460.6	4950.3	3582.8	2417.4	1750.2	1476.2	1305.8	1192.7	1060.2	938.1
-35°	5450.8	4323.0	3143.8	2327.7	1711.5	1502.0	1348.2	1210.8	1075.5	960.7	871.0
-37.5°	3413.0	2611.3	2095.3	1637.1	1501.9	1370.0	1246.9	1110.1	974.8	889.8	812.3
-40°	2161.8	1727.8	1598.3	1476.9	1369.0	1263.3	1131.8	1000.9	910.5	825.5	757.8
-42.5°	1632.9	1535.4	1438.6	1347.0	1246.5	1127.6	1013.1	927.7	847.2	774.0	716.2
-45°	1467.0	1388.1	1304.2	1205.6	1099.1	1011.9	931.0	858.0	788.5	734.6	679.2
-47.5°	1310.3	1229.4	1143.1	1069.0	995.8	924.1	858.6	793.8	751.2	700.9	630.4
-50°	1145.7	1092.0	1031.9	968.5	910.8	851.0	805.8	764.4	714.9	651.3	576.6
-52.5°	1046.2	1002.0	951.6	894.3	852.9	818.6	779.1	723.5	665.5	590.0	509.1
-55°	988.7	950.4	914.4	874.9	828.4	778.3	726.5	664.6	590.4	514.6	441.0
-57.5°	984.0	940.6	888.3	832.7	773.6	710.6	644.1	576.3	507.7	438.8	371.1
-60°	942.9	890.3	818.9	747.2	676.1	610.4	546.8	484.0	422.1	360.3	300.0
-62.5°	815.3	758.0	691.1	623.0	559.0	500.1	442.2	384.4	330.6	279.3	230.6
-65°	634.3	583.2	529.8	477.9	425.4	372.7	323.4	282.6	244.7	204.9	164.4
-67.5°	449.1	411.3	370.1	329.9	296.3	263.6	231.8	198.6	171.4	148.2	124.7
-70°	294.7	271.3	246.3	220.6	199.1	179.9	159.3	138.9	119.6	102.0	83.8
-72.5°	182.8	169.6	155.6	141.0	125.9	112.5	99.1	85.1	70.9	56.5	45.7
-75°	105.1	96.0	86.2	76.7	66.6	56.1	49.8	45.4	41.1	36.7	32.3
-77.5°	56.8	51.8	47.2	43.8	40.2	36.3	32.3	29.4	27.6	25.8	24.0
-80°	37.8	34.9	32.0	29.6	27.2	24.8	22.6	21.4	20.3	19.3	18.4
-82.5°	25.6	23.5	21.5	20.1	18.7	17.3	16.1	15.6	15.0	14.5	13.9
-85°	17.7	15.9	14.0	13.4	12.7	12.1	11.5	11.3	11.0	10.8	10.5
-87.5°	11.8	10.1	8.5	8.5	8.4	8.4	8.3	8.4	8.5	8.6	8.7
-90°	3.3	3.9	4.4	4.4	4.4	4.4	4.4	5.0	5.5	6.1	6.6





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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	8.7	8.7	8.7	8.7	8.7	8.7	8.7
87.5°	6.6	6.6	6.6	6.6	7.1	7.7	8.2	8.7	8.7	8.7	8.7
85°	6.8	6.9	6.9	6.9	7.3	7.7	8.2	8.7	8.7	8.7	8.7
82.5°	7.2	7.6	7.9	8.1	8.1	8.2	8.4	8.7	8.8	8.7	8.7
80°	7.2	7.7	8.3	8.7	8.7	8.7	8.6	8.8	9.0	9.1	9.0
77.5°	7.8	8.0	8.3	8.7	8.7	8.7	8.7	8.8	9.3	9.5	9.6
75°	8.7	8.6	8.6	8.8	8.8	8.7	8.7	8.9	9.4	9.9	10.1
72.5°	8.7	8.7	8.7	9.0	9.3	9.3	9.1	8.9	9.5	10.0	10.5
70°	10.2	9.1	8.7	9.1	9.6	10.0	9.9	9.6	9.5	10.0	10.6
67.5°	13.1	11.8	10.4	9.4	9.7	10.2	10.7	10.4	10.1	10.1	10.6
65°	16.6	14.6	12.9	11.3	10.3	10.3	10.8	10.9	10.6	10.4	10.7
62.5°	20.8	17.4	15.3	13.0	11.4	10.8	10.9	10.9	10.9	10.7	10.8
60°	25.5	20.4	17.5	15.2	12.8	11.1	10.9	10.9	10.9	10.9	10.9
57.5°	30.6	22.7	19.5	17.1	14.7	12.1	10.9	10.9	10.9	10.9	10.9
55°	33.9	25.8	21.5	18.6	16.4	13.9	11.5	10.9	10.9	10.9	10.9
52.5°	33.4	27.8	23.7	19.9	17.3	15.4	12.9	10.9	10.9	10.9	10.9
50°	30.2	28.5	25.1	21.2	18.2	16.1	14.2	11.9	10.9	10.9	10.9
47.5°	29.0	28.9	26.0	22.2	18.7	16.8	15.0	12.9	10.9	10.9	10.9
45°	28.4	29.8	27.3	23.2	19.4	17.5	15.6	13.7	11.6	11.0	10.9
42.5°	29.0	31.3	29.7	24.3	21.3	18.1	16.2	14.2	12.2	11.1	11.0
40°	37.2	33.6	32.9	29.8	23.9	18.7	16.7	14.7	12.7	11.5	11.2
37.5°	47.9	41.1	36.3	39.8	28.9	21.7	17.2	15.1	13.4	12.1	11.4
35°	71.0	53.0	50.1	52.9	41.2	25.1	17.6	15.5	14.1	12.7	11.6
32.5°	99.8	79.4	75.8	68.8	56.6	28.9	19.7	16.6	14.8	13.3	11.9
30°	142.1	128.0	108.3	88.0	74.3	42.9	23.8	18.0	15.5	13.9	12.3
27.5°	206.5	182.0	148.5	117.6	92.7	60.0	29.0	19.7	16.1	14.4	12.8
25°	280.7	243.0	199.6	153.7	113.4	83.4	34.6	21.8	17.2	15.0	13.2
22.5°	371.3	308.5	254.2	193.5	144.4	109.9	47.0	26.4	18.7	15.5	13.7
20°	465.8	377.2	312.9	238.0	181.8	136.1	67.3	31.0	20.4	15.9	14.1
17.5°	564.2	464.8	383.5	290.6	220.0	164.2	89.0	35.7	22.1	16.4	14.5
15°	696.7	576.7	460.8	346.3	256.6	193.7	111.5	40.3	24.0	16.8	14.9
12.5°	836.7	693.6	542.6	403.9	291.2	224.1	134.2	44.9	25.8	18.0	15.3
10°	975.4	813.0	627.0	462.1	324.0	254.6	156.6	51.2	30.1	19.9	15.8
7.5°	1111.6	932.4	711.9	519.4	359.0	294.4	193.5	61.6	34.8	22.0	16.3
5°	1234.7	1038.9	795.7	589.5	414.9	343.3	232.4	72.0	39.4	24.2	16.7
2.5°	1312.9	1121.6	874.3	656.9	469.5	390.3	269.6	82.1	43.9	26.3	17.1
0°	1382.8	1194.9	945.9	718.7	522.1	434.7	303.6	91.7	48.1	28.4	17.5
-2.5°	1427.1	1238.0	985.0	767.8	576.5	483.5	344.8	118.7	63.7	36.6	20.9
-5°	1464.2	1271.6	1017.9	811.6	628.4	528.6	380.2	144.1	78.5	44.5	24.1
-7.5°	1477.8	1278.3	1034.9	846.2	677.4	569.9	408.9	167.3	92.3	51.7	27.1
-10°	1477.9	1264.1	1029.3	845.7	689.3	587.3	426.1	187.6	104.5	58.0	29.8
-12.5°	1467.4	1240.2	1018.8	839.3	691.4	582.5	413.6	201.0	114.9	63.3	32.0
-15°	1445.6	1206.7	1003.8	827.0	690.0	574.7	398.2	209.9	122.9	67.8	33.8
-17.5°	1401.2	1163.4	984.7	808.8	684.7	564.0	380.4	215.7	128.8	71.4	35.6
-20°	1296.8	1101.1	961.3	784.6	675.5	550.6	361.2	218.5	132.5	73.5	37.4



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1186.8	1029.4	901.8	768.9	660.0	534.4	341.1	218.0	133.7	73.9	38.6
-25°	1074.0	956.2	837.4	732.5	637.9	504.3	329.4	214.0	132.3	72.7	39.0
-27.5°	983.1	883.0	775.3	696.2	601.7	475.1	323.2	211.9	129.2	69.5	38.6
-30°	901.4	815.1	730.3	658.5	564.8	433.7	312.8	206.3	125.4	67.5	37.5
-32.5°	837.5	752.2	690.4	616.5	519.3	391.7	290.2	197.1	119.1	66.1	36.6
-35°	786.5	709.7	651.2	574.7	470.4	358.6	262.5	184.1	110.1	63.5	35.4
-37.5°	736.3	677.3	606.0	527.8	421.6	322.6	236.8	163.9	98.4	59.7	33.3
-40°	700.9	639.6	565.7	475.1	377.5	283.8	209.2	144.3	90.7	54.9	30.5
-42.5°	663.7	594.1	514.4	423.5	332.3	251.2	180.5	123.6	82.1	50.2	26.8
-45°	613.0	542.1	458.2	372.4	286.1	216.7	156.6	103.6	72.5	45.1	23.7
-47.5°	557.3	480.5	401.8	320.3	246.7	182.9	131.7	92.0	62.3	38.9	22.0
-50°	491.1	419.2	345.5	274.4	206.9	154.8	109.0	79.8	53.6	31.4	20.0
-52.5°	430.4	359.3	293.1	229.1	173.7	125.8	94.6	67.0	44.2	26.7	17.5
-55°	368.8	302.3	242.2	187.9	140.0	106.2	79.3	55.4	34.1	23.1	15.0
-57.5°	307.0	246.0	194.6	147.6	114.2	88.5	64.5	43.1	28.1	19.2	14.6
-60°	243.6	193.2	147.0	118.3	93.9	70.6	49.6	32.4	23.0	15.7	14.2
-62.5°	183.7	143.0	117.9	95.1	73.0	52.6	35.4	25.9	17.6	15.1	13.7
-65°	137.9	113.7	91.7	71.0	51.6	36.5	27.5	19.1	15.9	14.5	13.3
-67.5°	102.7	82.4	63.5	45.8	35.7	27.6	19.3	16.5	15.2	13.9	13.3
-70°	66.1	49.5	40.2	33.3	26.0	19.5	17.2	15.7	14.5	13.7	13.2
-72.5°	40.3	34.6	28.8	23.0	20.2	17.9	16.1	14.9	14.0	13.4	13.1
-75°	27.4	24.5	22.1	19.8	17.7	16.1	15.0	14.1	13.5	13.1	12.6
-77.5°	21.9	19.9	18.1	16.7	15.6	14.6	13.9	13.3	12.9	12.4	12.0
-80°	17.2	16.1	15.2	14.3	13.6	13.1	12.7	12.4	12.1	11.7	11.3
-82.5°	13.2	12.9	12.6	12.5	12.2	12.0	11.7	11.5	11.2	11.0	10.7
-85°	10.6	10.8	11.0	11.2	11.1	10.9	10.7	10.6	10.4	10.2	10.0
-87.5°	9.1	9.4	9.7	10.0	9.9	9.8	9.7	9.6	9.5	9.5	9.4
-90°	6.6	6.6	6.6	6.6	7.1	7.7	8.2	8.7	8.7	8.7	8.7



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	8.7	8.7	8.7	8.7	8.7	8.7	8.7
87.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7
85°	8.7	8.7	8.7	8.7	8.7	8.7	8.7
82.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7
80°	8.8	8.7	8.7	8.7	8.7	8.7	8.7
77.5°	9.3	8.9	8.7	8.7	8.7	8.7	8.7
75°	9.9	9.3	8.8	8.7	8.7	8.7	8.7
72.5°	10.4	9.8	9.1	8.7	8.7	8.7	8.7
70°	10.9	10.2	9.5	8.8	8.7	8.7	8.7
67.5°	10.9	10.7	9.9	9.0	8.7	8.7	8.7
65°	10.9	10.9	10.2	9.3	8.7	8.7	8.7
62.5°	10.9	10.9	10.5	9.5	8.7	8.7	8.7
60°	10.9	10.9	10.9	9.8	8.7	8.7	8.7
57.5°	10.9	10.9	10.9	10.0	8.9	8.7	8.7
55°	10.9	10.9	10.9	10.3	9.0	8.7	8.7
52.5°	10.9	10.9	10.9	10.5	9.2	8.7	8.7
50°	10.9	10.9	10.9	10.7	9.3	8.7	8.7
47.5°	10.9	10.9	10.9	10.9	9.5	8.7	8.7
45°	10.9	10.9	10.9	10.9	9.6	8.7	8.7
42.5°	10.9	10.9	10.9	10.9	9.7	8.7	8.7
40°	10.9	10.9	10.9	10.9	9.9	8.7	8.7
37.5°	10.9	10.9	10.9	10.9	10.0	8.7	8.7
35°	10.9	10.9	10.9	10.9	10.1	8.7	8.7
32.5°	11.0	10.9	10.9	10.9	10.2	8.7	8.7
30°	11.2	10.9	10.9	10.9	10.3	8.7	8.7
27.5°	11.4	10.9	10.9	10.9	10.4	8.7	8.7
25°	11.7	10.9	10.9	10.9	10.5	8.7	8.7
22.5°	12.0	10.9	10.9	10.9	10.6	8.7	8.7
20°	12.3	11.1	10.9	10.9	10.6	8.7	8.7
17.5°	12.5	11.3	10.9	10.9	10.7	8.7	8.7
15°	12.7	11.5	10.9	10.9	10.7	8.7	8.7
12.5°	12.9	11.8	10.9	10.9	10.8	8.7	8.7
10°	13.0	12.0	10.9	10.9	10.8	8.7	8.7
7.5°	13.1	12.3	10.9	10.9	10.9	8.7	8.7
5°	13.1	12.6	10.9	10.9	10.9	8.7	8.7
2.5°	13.1	12.8	10.9	10.9	10.9	8.7	8.7
0°	13.1	13.1	10.9	10.9	10.9	8.7	8.7
-2.5°	14.3	13.1	10.9	10.9	10.9	8.7	8.7
-5°	15.4	13.1	10.9	10.9	10.9	8.7	8.7
-7.5°	16.4	13.0	10.9	10.9	10.9	8.7	8.7
-10°	17.3	12.9	10.9	10.9	10.8	8.7	8.7
-12.5°	18.0	12.8	10.9	10.9	10.8	8.7	8.7
-15°	18.6	12.7	10.9	10.9	10.7	8.7	8.7
-17.5°	18.8	12.6	10.9	10.9	10.7	8.7	8.7
-20°	19.3	12.4	10.9	10.9	10.6	8.7	8.7



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	20.1	12.3	10.9	10.9	10.6	8.7	8.7
-25°	20.4	12.4	10.9	10.9	10.5	8.7	8.7
-27.5°	20.3	12.6	10.9	10.9	10.4	8.7	8.7
-30°	19.7	12.7	10.9	10.9	10.3	8.7	8.7
-32.5°	18.7	12.5	11.0	10.9	10.2	8.7	8.7
-35°	18.2	12.3	11.1	10.9	10.1	8.7	8.7
-37.5°	17.8	12.1	11.2	10.9	10.0	8.7	8.7
-40°	17.3	12.1	11.2	10.9	9.9	8.7	8.7
-42.5°	16.4	12.2	11.3	10.9	9.7	8.7	8.7
-45°	15.3	12.2	11.4	11.0	9.6	8.7	8.7
-47.5°	13.9	12.2	11.4	11.0	9.5	8.7	8.7
-50°	13.6	12.1	11.5	10.9	9.3	8.7	8.7
-52.5°	13.4	12.0	11.6	10.7	9.2	8.7	8.7
-55°	13.2	12.1	11.6	10.5	9.0	8.7	8.7
-57.5°	12.9	12.1	11.7	10.3	8.9	8.7	8.7
-60°	12.7	12.2	11.7	10.1	8.7	8.7	8.7
-62.5°	12.7	12.2	11.4	9.9	8.7	8.7	8.7
-65°	12.8	12.3	11.1	9.7	8.7	8.7	8.7
-67.5°	12.9	12.1	10.8	9.4	8.7	8.7	8.7
-70°	12.9	11.7	10.5	9.2	8.7	8.7	8.7
-72.5°	12.5	11.3	10.1	9.1	8.7	8.7	8.7
-75°	12.0	10.9	9.8	9.1	8.7	8.7	8.7
-77.5°	11.5	10.4	9.6	9.0	8.7	8.7	8.7
-80°	10.9	10.1	9.4	9.0	8.7	8.7	8.7
-82.5°	10.4	9.8	9.3	8.9	8.7	8.7	8.7
-85°	9.8	9.4	9.1	8.8	8.7	8.7	8.7
-87.5°	9.3	9.1	8.9	8.8	8.7	8.7	8.7
-90°	8.7	8.7	8.7	8.7	8.7	8.7	8.7

(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

