

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: P701739 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-57-80-5S-CV1-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701739 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-34)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-57-80-5S-CV1-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 5S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

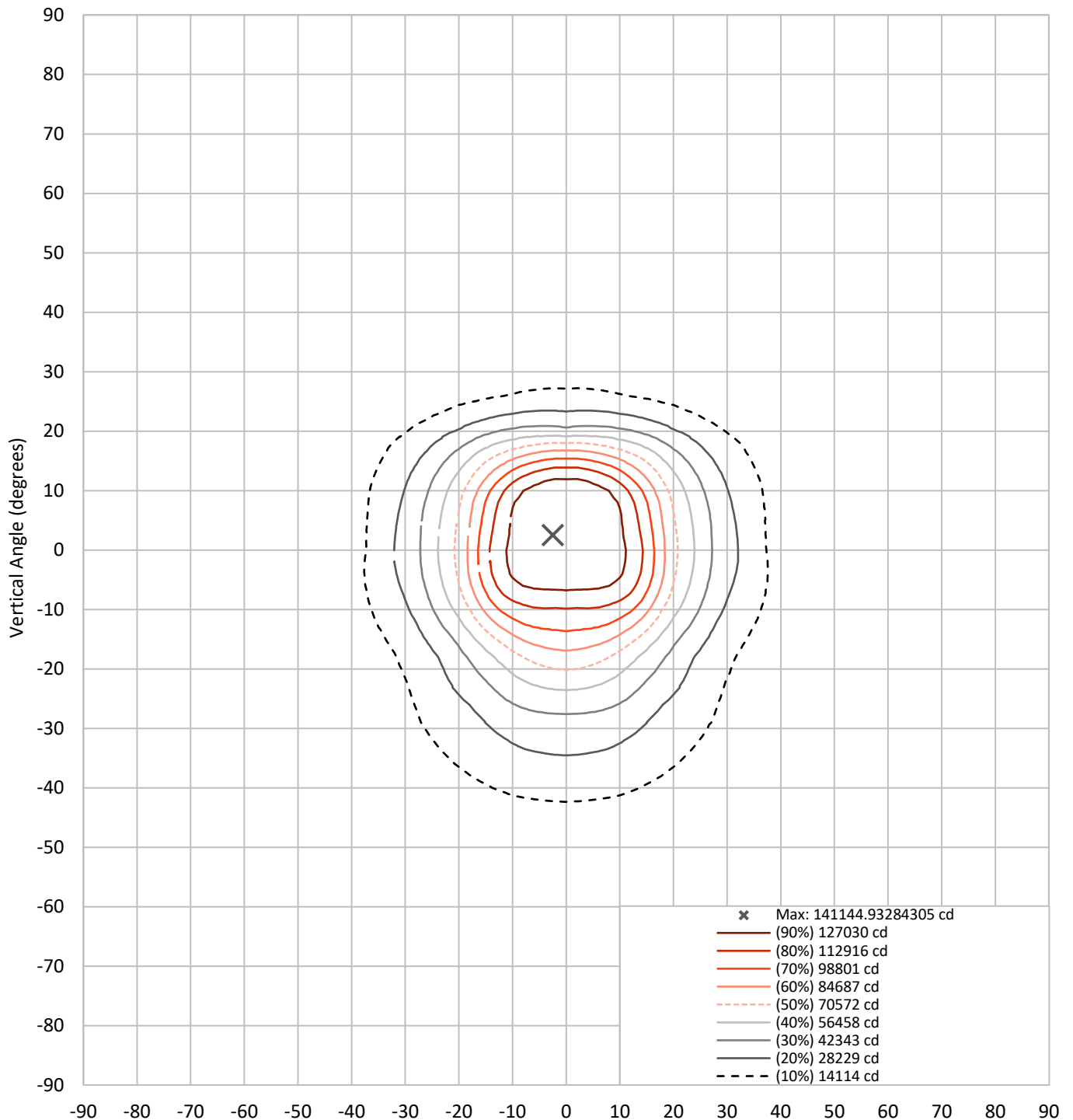
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 4V
Luminaire Lumens:	75355.1 lumens	Max Intensity:	141144.9 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 2.5°V
Efficacy:	108.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	41.4°H x 38°V	Field Angle (10%):	74.2°H x 69.6°V
Beam Lumens:	41521.1 lumens	Field Lumens:	70078.8 lumens
Beam Efficiency:	55.1%	Field Efficiency:	93.0%

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





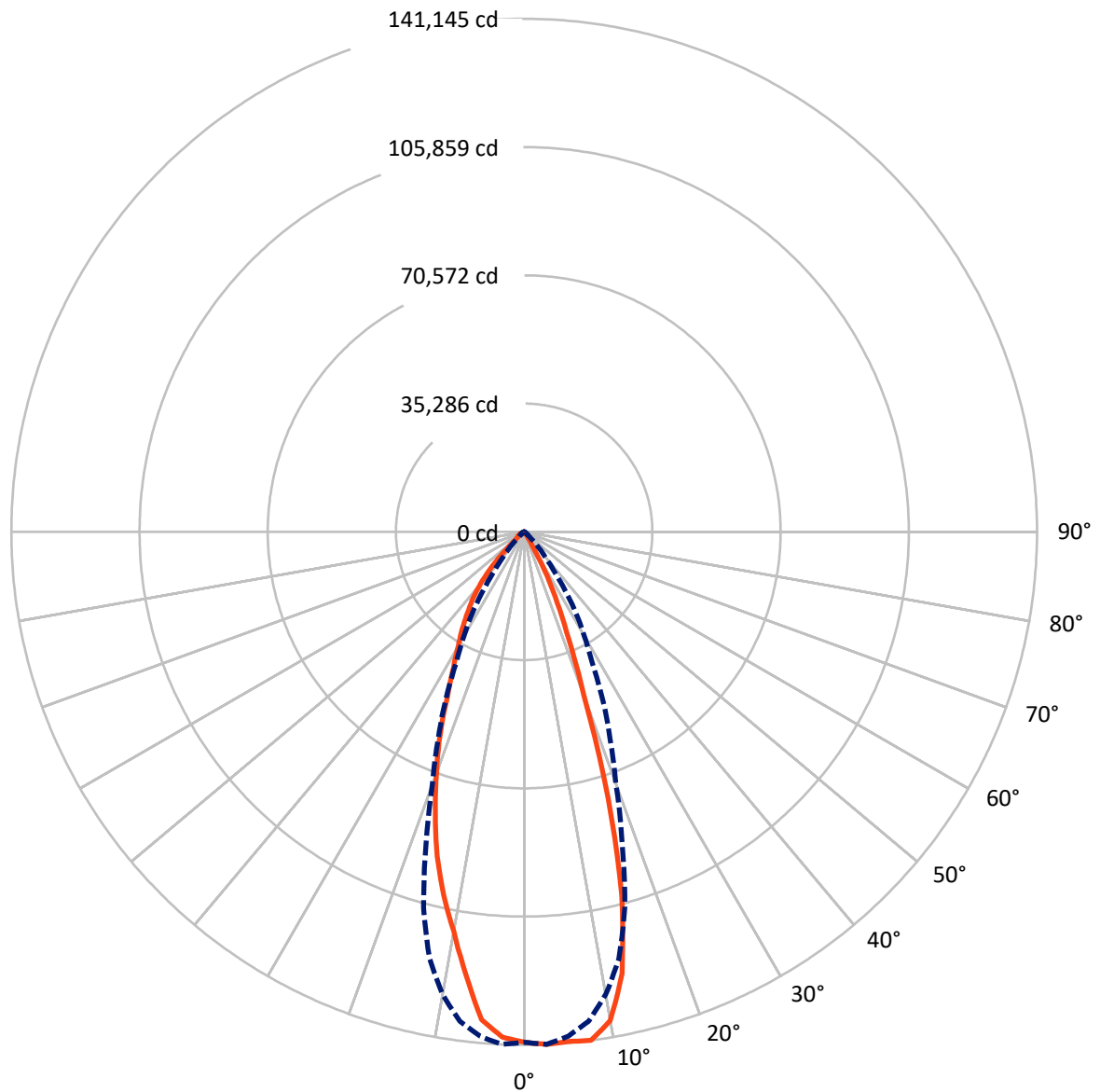
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### Lumen Table

90	0.1		0.3		0.5		0.5		0.4		0.5		0.5		0.3		0.1	
80	0.1		0.3		0.5		0.5		0.4		0.5		0.5		0.3		0.1	
70	0.1	0.1	0.1	0.4	0.6	0.4	0.3	0.3	0.3	0.3	0.4	0.6	0.4	0.1	0.1	0.1		
60		0.1	0.2	0.7	0.8	0.4	0.3	0.3	0.3	0.3	0.4	0.8	0.7	0.2	0.1			
50	0.1	0.1	0.3	0.5	0.8	1.0	1.2	1.1	1.1	1.2	1.0	0.8	0.5	0.3	0.1	0.1		
40		0.2	0.8	2.3	4.9	10.6	25.1	35.9	35.9	25.1	10.6	4.9	2.3	0.8	0.2			
30	0.2	0.4	4.0	15.1	82.2	252.3	507.6	682.9	682.9	507.6	252.3	82.2	15.1	4.0	0.4	0.2		
20		1.1	9.8	54.3	338.6	963.9	1998.3	2877.8	2877.8	1998.3	963.9	338.6	54.3	9.8	1.1			
10	0.2	1.9	13.3	85.7	486.7	1386.7	2996.1	4143.2	4143.2	2996.1	1386.7	486.7	85.7	13.3	1.9	0.2		
0		2.3	14.2	89.6	490.2	1351.9	2952.6	3913.6	3913.6	2952.6	1351.9	490.2	89.6	14.2	2.3			
-10	0.4	2.7	13.7	60.2	322.2	891.7	1896.8	2698.1	2698.1	1896.8	891.7	322.2	60.2	13.7	2.7	0.4		
-20		2.7	13.0	33.5	189.9	546.1	1061.5	1501.3	1501.3	1061.5	546.1	189.9	33.5	13.0	2.7			
-30	0.3	2.1	10.5	24.9	76.3	301.1	587.4	803.9	803.9	587.4	301.1	76.3	24.9	10.5	2.1	0.3		
-40		1.4	6.8	19.5	37.5	70.0	166.0	258.0	258.0	166.0	70.0	37.5	19.5	6.8	1.4			
-50	0.2	0.7	3.4	10.6	23.0	37.5	51.2	59.2	59.2	51.2	37.5	23.0	10.6	3.4	0.7	0.2		
-60		0.3	1.2	3.6	7.9	13.4	19.8	23.4	23.4	19.8	13.4	7.9	3.6	1.2	0.3			
-70	0.2	0.7	3.4	10.6	23.0	37.5	51.2	59.2	59.2	51.2	37.5	23.0	10.6	3.4	0.7	0.2		
-80		0.3	1.2	3.6	7.9	13.4	19.8	23.4	23.4	19.8	13.4	7.9	3.6	1.2	0.3			
-90	0.2		0.7		2.7		6.3		8.5		6.3		2.7		0.7		0.2	

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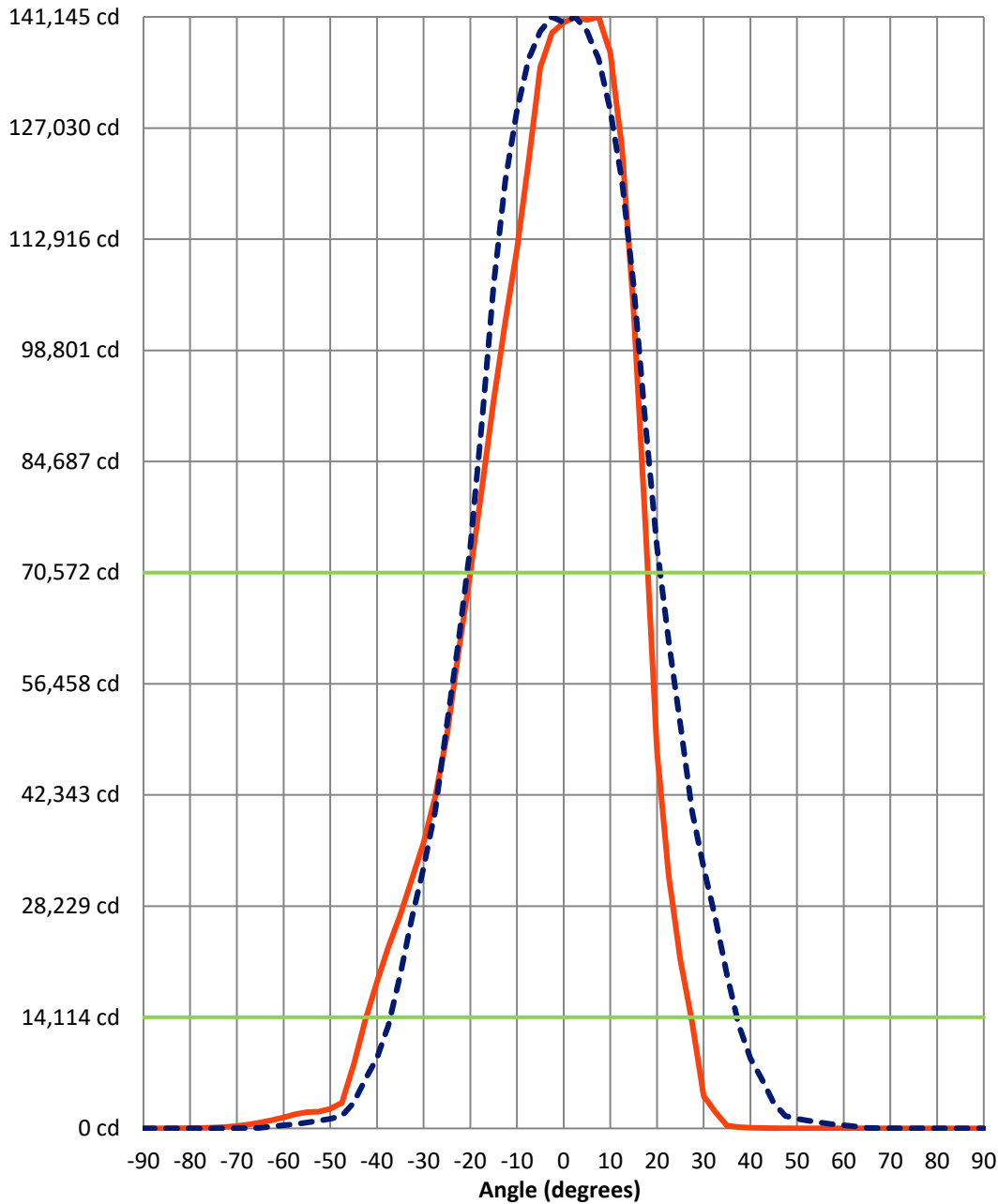
### Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg    - - - Horizontal Distribution Through 2.5-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 41.4°  
 V Angle: 38°  
 Lumens: 41521.1  
 Efficiency: 55.1%

**Field:**  
 H Angle: 74.2°  
 V Angle: 69.6°  
 Lumens: 70078.8  
 Efficiency: 93.0%

**Spill:**  
 Lumens: 5276.3  
 Efficiency: 7.0%

— Vertical Distribution through -2.5-Deg  
 - - Horizontal Distribution through 2.5-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°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.6	5.1	4.5	4.0
85°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.6	5.1	4.5	4.0
82.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.6	5.1	4.8	4.6
80°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.7	5.5	5.4	5.5
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.9	5.8	6.0	6.1
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.0	6.1	6.1	6.1
72.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
70°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
67.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
65°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
62.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
60°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
57.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.2	6.1	6.1	6.1	6.3
55°	6.1	6.1	6.1	6.1	6.1	6.1	6.3	6.2	6.1	6.2	6.6
52.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.5	6.3	6.1	6.6	7.0
50°	6.1	6.1	6.1	6.1	6.1	6.3	6.7	6.4	6.3	7.1	8.1
47.5°	6.1	6.1	6.1	6.1	6.1	6.5	6.9	6.5	6.8	7.7	9.1
45°	6.1	6.1	6.1	6.1	6.1	6.7	7.0	6.6	7.4	8.5	10.0
42.5°	6.1	6.1	6.1	6.1	6.1	7.0	7.0	6.9	8.0	9.2	10.6
40°	6.1	6.1	6.1	6.1	6.2	7.2	7.1	7.5	8.6	9.8	11.2
37.5°	6.1	6.1	6.1	6.2	6.4	7.5	7.2	8.0	9.2	10.4	11.8
35°	6.1	6.1	6.1	6.2	6.6	7.7	7.4	8.5	9.8	11.1	12.5
32.5°	6.1	6.1	6.1	6.3	6.8	7.7	7.5	8.9	10.3	11.9	14.2
30°	6.1	6.1	6.1	6.4	7.0	7.8	7.9	9.4	10.8	12.7	16.1
27.5°	6.1	6.1	6.1	6.5	7.3	7.9	8.3	9.8	11.4	13.6	18.3
25°	6.1	6.1	6.1	6.6	7.5	8.0	8.7	10.2	12.1	15.1	20.9
22.5°	6.1	6.1	6.1	6.8	7.6	8.1	9.0	10.6	12.8	17.0	25.7
20°	6.1	6.1	6.1	6.9	7.8	8.1	9.3	11.0	13.5	19.0	30.8
17.5°	6.1	6.1	6.1	7.0	7.9	8.1	9.5	11.3	14.2	21.1	36.2
15°	6.1	6.1	6.1	7.2	8.0	8.1	9.7	11.6	14.8	23.2	41.8
12.5°	6.1	6.1	6.1	7.4	8.0	8.1	9.8	11.8	15.5	25.4	47.4
10°	6.1	6.1	6.1	7.5	8.1	8.1	9.9	11.9	16.1	27.7	52.9
7.5°	6.1	6.1	6.1	7.7	8.1	8.1	10.0	12.0	16.7	30.1	58.0
5°	6.1	6.1	6.1	7.8	8.1	8.1	10.1	12.0	17.3	32.4	62.8
2.5°	6.1	6.1	6.1	8.1	8.1	8.1	10.1	12.1	18.2	36.3	70.6
0°	6.1	6.1	6.1	8.1	8.1	8.1	10.1	12.1	18.2	36.3	70.6
-2.5°	6.1	6.1	6.2	8.1	8.1	8.3	10.6	14.3	24.4	47.4	88.1
-5°	6.1	6.1	6.3	8.1	8.1	8.5	11.1	16.4	30.2	57.9	104.5
-7.5°	6.1	6.1	6.4	8.1	8.1	8.7	11.6	18.3	35.6	67.5	119.5
-10°	6.1	6.1	6.4	8.0	8.1	8.9	11.9	20.0	40.4	76.1	132.7
-12.5°	6.1	6.1	6.5	8.0	8.1	9.1	12.3	21.4	44.3	83.6	145.4
-15°	6.1	6.1	6.6	8.0	8.1	9.2	12.5	22.4	47.9	90.8	156.2
-17.5°	6.1	6.1	6.6	7.9	8.1	9.3	12.7	24.1	51.5	96.4	164.1
-20°	6.1	6.1	6.7	7.9	8.1	9.3	13.2	26.1	53.9	100.0	168.8



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 CATALOG NUMBER: EPH-LS-08-0680R-57-80-5S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.1	6.1	6.7	7.9	8.1	9.3	14.3	27.5	55.1	101.6	169.9
-25°	6.1	6.1	6.8	7.9	8.1	9.5	15.0	28.3	55.0	101.0	167.2
-27.5°	6.1	6.1	6.8	7.9	8.1	9.7	15.4	28.3	53.5	99.1	166.1
-30°	6.1	6.1	6.8	7.9	8.1	9.7	15.4	27.7	52.6	97.2	162.1
-32.5°	6.1	6.1	6.8	7.9	8.2	9.6	15.0	27.5	51.7	93.4	155.1
-35°	6.1	6.1	6.8	8.0	8.3	9.4	14.8	27.0	49.8	87.6	144.8
-37.5°	6.1	6.1	6.8	8.0	8.4	9.2	14.5	26.0	46.9	79.8	131.5
-40°	6.1	6.1	6.8	8.1	8.4	9.2	13.9	24.4	42.8	74.0	118.5
-42.5°	6.1	6.1	6.7	8.1	8.4	9.3	13.1	22.1	39.4	67.1	104.0
-45°	6.1	6.1	6.7	8.1	8.4	9.3	12.1	19.9	36.1	59.2	88.9
-47.5°	6.1	6.1	6.6	8.1	8.4	9.3	10.8	18.3	31.9	50.6	79.1
-50°	6.1	6.1	6.5	8.0	8.4	9.2	10.5	16.4	26.7	44.6	68.4
-52.5°	6.1	6.1	6.4	7.8	8.4	9.1	10.4	14.2	23.1	37.9	57.2
-55°	6.1	6.1	6.3	7.6	8.3	9.0	10.2	11.8	19.9	30.6	48.6
-57.5°	6.1	6.1	6.2	7.4	8.2	8.9	10.0	11.5	16.5	25.6	39.2
-60°	6.1	6.1	6.1	7.2	8.1	8.7	9.7	11.1	13.4	21.1	30.7
-62.5°	6.1	6.1	6.1	7.1	7.9	8.5	9.3	10.7	12.7	16.3	25.0
-65°	6.1	6.1	6.1	6.9	7.7	8.2	9.0	10.1	11.8	14.3	18.9
-67.5°	6.1	6.1	6.1	6.7	7.6	8.0	8.6	9.6	10.8	12.9	15.7
-70°	6.1	6.1	6.1	6.5	7.4	7.9	8.2	9.1	10.3	11.4	13.6
-72.5°	6.1	6.1	6.1	6.5	7.2	7.8	8.1	8.6	9.7	10.7	11.7
-75°	6.1	6.1	6.1	6.4	7.1	7.7	8.1	8.4	9.0	10.0	11.0
-77.5°	6.1	6.1	6.1	6.4	6.9	7.6	8.1	8.3	8.7	9.4	10.2
-80°	6.1	6.1	6.1	6.3	6.8	7.4	8.1	8.2	8.4	8.9	9.4
-82.5°	6.1	6.1	6.1	6.3	6.6	7.1	7.6	7.9	8.1	8.3	8.6
-85°	6.1	6.1	6.1	6.2	6.4	6.7	7.1	7.3	7.5	7.6	7.8
-87.5°	6.1	6.1	6.1	6.2	6.3	6.4	6.6	6.7	6.8	6.9	6.9
-90°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.6	5.1	4.5	4.0





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	4.6	4.5	4.3	4.0	4.0	4.0	4.0	4.2	4.3	4.3	4.2
80°	5.4	5.1	4.6	4.1	4.2	4.5	5.0	5.6	5.6	5.2	4.9
77.5°	5.7	5.2	4.7	4.1	4.4	5.1	5.7	6.0	6.0	5.9	6.0
75°	5.7	5.2	5.0	5.0	5.4	5.9	6.1	6.5	6.8	6.8	6.6
72.5°	5.9	5.7	5.7	6.1	6.2	6.4	6.9	7.7	8.1	8.0	7.9
70°	6.0	6.1	6.1	6.1	6.2	6.9	7.9	8.9	9.6	10.0	11.0
67.5°	6.1	6.1	6.1	6.2	6.9	8.0	9.1	11.5	14.5	15.7	16.8
65°	6.1	6.1	6.3	7.0	8.0	9.6	12.1	15.6	21.6	24.4	25.7
62.5°	6.1	6.2	6.8	7.8	9.1	11.2	16.3	22.9	30.5	34.6	33.7
60°	6.1	6.3	7.6	9.2	10.7	15.3	22.0	29.6	39.3	46.1	41.4
57.5°	6.3	7.2	9.1	11.1	14.4	19.0	25.7	35.0	44.8	55.2	47.7
55°	7.0	8.8	10.7	13.5	17.2	20.5	27.4	36.0	46.8	53.5	47.0
52.5°	8.5	10.3	12.1	15.3	18.8	21.5	25.6	33.7	40.1	45.6	41.9
50°	9.8	11.1	13.0	16.7	19.8	21.5	21.3	27.5	32.8	35.2	35.6
47.5°	10.6	11.9	14.3	17.9	20.5	20.9	19.1	22.2	26.2	28.6	27.8
45°	11.3	13.2	15.8	18.9	20.9	20.2	19.9	18.7	23.7	25.8	26.3
42.5°	12.0	14.7	17.8	20.3	21.1	22.1	22.6	22.7	25.3	30.3	32.9
40°	13.2	16.2	20.2	22.4	22.7	26.2	29.8	32.5	34.3	41.1	46.0
37.5°	14.5	18.7	23.6	27.2	27.7	33.9	39.4	57.2	60.9	55.6	73.1
35°	15.7	21.5	29.8	38.3	43.2	44.8	69.4	93.6	103.9	101.8	116.5
32.5°	17.7	24.7	37.9	57.3	76.5	81.4	107.6	148.5	185.1	199.8	190.8
30°	21.2	32.2	50.9	81.4	124.8	172.4	179.9	225.3	299.2	359.5	449.6
27.5°	26.5	42.0	74.0	125.7	195.1	292.6	316.5	355.9	465.9	617.2	907.6
25°	32.5	66.9	100.3	184.6	313.1	427.5	472.5	546.9	674.4	1163.5	1832.1
22.5°	45.9	100.1	154.5	252.6	450.7	568.8	650.3	775.2	1078.3	1859.1	3160.8
20°	69.8	146.2	222.9	338.3	596.3	718.0	827.5	1017.5	1694.1	3146.0	5261.6
17.5°	98.0	196.0	293.8	441.8	674.8	841.3	1010.7	1265.9	2340.4	4646.8	7457.7
15°	129.5	248.7	360.3	531.2	743.6	922.6	1159.0	1747.3	3366.4	6360.4	9474.9
12.5°	163.1	303.0	422.6	607.6	807.4	999.0	1280.6	2158.7	4435.9	7917.1	11547.3
10°	197.8	357.9	480.8	672.0	865.9	1069.7	1390.8	2534.6	5189.9	8501.1	12540.1
7.5°	219.3	392.2	527.8	725.6	918.7	1134.2	1488.5	2866.6	5723.5	8795.6	12949.1
5°	235.4	400.9	532.4	741.3	952.4	1185.6	1564.6	3145.0	6055.0	8837.3	13075.3
2.5°	247.8	404.4	533.3	746.2	972.8	1220.3	1590.7	3237.1	6207.0	8918.2	13162.7
0°	256.2	403.5	530.6	744.5	986.6	1246.9	1600.0	3254.5	6210.3	8970.4	13195.4
-2.5°	269.9	418.0	557.6	775.8	1002.2	1252.5	1613.1	3346.1	6511.6	9535.2	14191.0
-5°	279.6	428.8	580.0	800.2	1011.5	1249.7	1610.9	3351.0	6549.4	9666.2	14231.5
-7.5°	285.7	435.9	597.0	814.6	1003.5	1218.3	1555.8	3080.2	5973.1	9073.4	13264.5
-10°	289.3	445.1	609.0	806.2	973.5	1166.7	1477.7	2745.3	5284.0	8310.8	12096.0
-12.5°	296.0	455.8	616.9	796.3	945.6	1109.9	1385.7	2355.7	4501.3	7378.7	10741.9
-15°	298.0	462.8	620.8	786.7	922.3	1048.8	1280.5	1919.3	3717.0	6560.4	9401.4
-17.5°	295.4	466.1	621.1	778.8	905.7	984.3	1172.8	1542.1	3132.2	5766.0	8387.6
-20°	287.9	465.8	617.7	774.0	895.5	963.1	1137.3	1459.9	2629.7	4835.4	7429.5



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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°	275.5	462.0	611.8	765.9	894.4	982.6	1107.2	1356.4	1999.2	3760.7	6436.6
-25°	267.4	444.5	602.4	744.8	888.4	1003.6	1074.8	1245.6	1604.4	2939.9	5098.4
-27.5°	263.5	421.1	574.4	714.5	872.8	1015.6	1080.9	1205.4	1459.2	2038.3	3688.7
-30°	254.6	382.0	540.8	676.4	836.3	991.5	1104.8	1163.7	1327.8	1665.2	2636.1
-32.5°	236.8	341.8	496.2	635.0	785.7	955.9	1109.0	1167.2	1273.2	1467.5	1831.3
-35°	216.2	316.1	447.7	587.1	725.1	897.6	1059.6	1183.6	1230.1	1370.7	1624.7
-37.5°	198.1	286.1	398.2	533.4	667.0	825.7	1004.0	1148.3	1244.0	1305.6	1493.4
-40°	177.1	251.7	357.2	478.7	608.3	753.1	918.2	1086.6	1222.4	1339.1	1417.8
-42.5°	154.2	225.2	315.1	423.9	549.0	683.2	826.1	992.8	1166.5	1332.8	1454.4
-45°	136.2	195.7	270.6	372.8	486.0	609.9	743.8	884.6	1066.1	1253.6	1423.4
-47.5°	116.5	166.0	234.4	317.2	422.0	535.6	657.1	790.2	939.8	1120.2	1315.1
-50°	97.4	142.0	194.6	268.6	356.2	459.3	570.4	686.8	819.1	969.1	1140.6
-52.5°	84.3	116.0	162.9	219.5	294.7	382.3	480.5	583.1	696.1	819.4	960.3
-55°	70.2	97.6	131.7	178.2	235.0	309.8	389.8	480.9	574.7	682.0	790.4
-57.5°	57.8	80.3	106.8	141.0	186.4	238.0	307.5	379.4	462.8	549.5	636.0
-60°	46.1	64.0	85.9	111.9	142.7	185.2	229.4	289.5	356.1	421.4	493.7
-62.5°	34.7	49.3	66.5	86.9	111.9	136.7	171.8	212.9	256.6	310.4	363.3
-65°	27.4	35.7	48.7	65.1	82.9	104.0	125.9	148.2	183.2	218.1	251.2
-67.5°	19.8	27.2	34.8	44.0	59.0	74.0	89.7	109.1	128.6	146.9	168.3
-70°	16.3	19.2	25.1	32.0	38.7	46.6	59.7	73.3	87.1	100.9	116.2
-72.5°	13.6	16.0	18.6	21.5	26.9	32.2	37.3	42.3	51.1	62.4	73.2
-75°	11.8	12.9	14.9	17.2	19.5	21.6	24.1	28.4	32.7	37.1	41.4
-77.5°	10.8	11.5	12.4	13.4	14.7	16.6	18.4	20.2	21.9	23.6	25.2
-80°	9.8	10.1	10.6	11.2	12.0	12.9	13.9	15.0	16.2	17.5	18.9
-82.5°	8.9	9.1	9.3	9.5	9.7	10.0	10.2	10.8	11.5	12.2	12.9
-85°	7.9	8.1	8.2	8.4	8.5	8.7	8.8	8.9	9.0	9.2	9.3
-87.5°	7.0	7.1	7.2	7.2	7.3	7.4	7.5	7.5	7.6	7.6	7.7
-90°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	6.1	6.1	6.1	6.1	6.1	5.6	5.1	4.5	4.0	4.0	4.0
87.5°	4.0	4.0	4.0	4.0	4.0	3.5	3.0	2.5	2.0	2.0	2.0
85°	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.9	3.4	3.0
82.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.0
80°	4.6	4.6	4.5	4.3	4.0	4.0	4.0	4.0	4.0	3.5	3.0
77.5°	6.1	5.7	5.2	4.6	4.1	4.0	4.0	4.0	4.0	3.6	3.0
75°	6.3	5.9	5.6	5.3	5.1	4.9	4.7	4.5	4.1	3.9	3.9
72.5°	7.8	7.6	7.5	7.7	7.7	7.5	7.1	6.5	5.8	5.7	5.9
70°	11.7	12.0	12.2	12.0	11.3	10.4	9.6	8.7	7.9	7.7	7.8
67.5°	17.9	18.1	17.6	16.2	14.1	12.3	11.3	10.1	8.7	8.3	8.8
65°	25.4	22.4	20.0	17.8	15.9	14.2	12.9	11.6	10.3	10.0	11.2
62.5°	30.2	23.8	20.1	18.4	17.1	15.9	14.1	12.4	11.0	10.2	10.4
60°	34.4	25.3	19.1	17.5	15.9	14.3	12.5	10.9	9.6	8.7	8.5
57.5°	36.5	25.9	17.6	15.3	13.1	10.9	10.0	9.6	8.9	8.1	8.6
55°	35.1	24.0	14.9	13.2	12.5	12.1	11.7	10.7	10.0	9.4	9.8
52.5°	30.0	21.9	15.9	13.8	13.2	12.6	12.0	11.8	11.6	11.4	11.6
50°	26.8	20.4	16.3	13.9	13.9	13.9	13.9	14.1	14.4	14.5	14.6
47.5°	23.9	19.2	18.2	15.9	16.3	17.6	17.9	18.2	19.2	19.1	18.6
45°	23.8	25.6	25.1	23.7	22.8	31.8	32.3	27.1	32.2	31.6	27.7
42.5°	35.0	37.5	38.1	46.8	63.2	62.4	60.7	68.8	63.3	55.3	49.7
40°	54.2	54.2	64.3	79.0	78.5	75.4	85.4	86.7	86.0	90.6	89.1
37.5°	86.3	87.3	92.0	100.7	116.2	108.8	130.7	144.7	146.9	166.4	181.5
35°	143.5	168.2	146.2	198.6	232.9	225.5	257.3	314.2	260.5	398.9	424.0
32.5°	269.0	324.4	367.0	426.8	504.2	618.4	626.9	1031.4	1112.3	1351.1	1677.6
30°	463.1	623.7	932.3	1012.8	1137.2	1610.7	2170.4	2870.8	3521.9	3986.9	4598.7
27.5°	1115.0	1380.3	2045.1	2767.2	2725.1	3609.7	5611.8	6227.7	7918.2	8480.6	9907.6
25°	2494.1	3129.4	4738.3	6172.2	6902.9	9233.7	11875.0	13066.2	15293.2	16477.3	18224.2
22.5°	4877.4	6620.3	8754.3	10956.3	13700.2	17268.8	20534.0	22917.5	25916.0	28323.2	29748.1
20°	7894.3	10306.1	13592.4	17012.9	21257.1	25945.3	29353.4	34182.3	38692.1	42974.5	44906.2
17.5°	10767.2	14796.8	18772.7	22901.1	28468.6	34601.0	40155.7	47218.0	54695.9	60446.5	65134.4
15°	13201.4	17685.2	23421.8	28355.8	34728.2	42375.5	50633.4	59662.3	70416.4	78590.1	87392.3
12.5°	15448.5	19944.4	26168.6	32061.5	40641.9	49279.0	58915.7	70134.3	82565.9	94656.9	105998.9
10°	16895.2	22076.9	28746.7	35905.9	44695.3	54724.6	65686.7	78254.5	94185.7	108008.7	120786.5
7.5°	17770.4	24021.6	30928.1	38562.0	47971.2	58291.7	69836.5	84652.4	101391.1	115829.6	127309.1
5°	18631.2	25614.8	32336.2	39842.4	50103.5	60605.5	71866.2	86728.0	103992.4	118444.7	128753.1
2.5°	19494.4	26711.7	33109.7	40351.9	51314.1	61913.1	73835.5	89668.7	107022.3	120295.5	129250.1
0°	20283.3	27102.9	33387.9	40479.9	51841.2	62484.3	74622.4	90257.1	109616.3	122381.9	131051.7
-2.5°	20569.5	27081.7	33087.0	40118.6	51401.1	61702.5	73783.0	90632.3	108698.5	121688.1	130491.6
-5°	19699.3	25609.1	31453.2	38575.5	49063.6	59696.8	71858.4	88565.9	105715.3	119162.8	127557.6
-7.5°	18063.1	23402.8	29151.0	36208.8	45738.2	56013.6	67084.6	81678.2	98561.4	111089.2	117700.9
-10°	16350.5	20930.5	26360.7	32893.0	41290.7	51048.7	60225.6	72643.1	88247.5	99354.0	106120.5
-12.5°	14392.7	18109.3	23121.4	28831.0	36326.9	44834.0	53227.5	63730.5	75647.7	87071.2	94115.7
-15°	12337.5	15328.5	19683.4	25162.1	31081.9	37445.0	45206.9	53714.8	63217.3	72476.5	80501.6
-17.5°	10692.4	13000.5	16996.8	21920.5	26434.4	31596.5	39161.7	46078.2	53032.6	60500.3	67185.6
-20°	9634.4	11800.9	15029.0	19140.0	23617.9	28821.5	34667.6	40716.9	47181.6	52915.0	58807.4



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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°	8789.9	11016.7	13507.5	16933.6	21699.8	26480.4	30977.7	35607.0	40970.3	46826.8	51763.0
-25°	7692.9	10028.2	12394.5	15653.2	19666.0	23891.5	27202.5	30498.7	35337.8	40318.4	44399.1
-27.5°	6167.4	8807.7	11570.5	14222.9	17643.5	20648.8	23558.3	26545.5	30765.1	34969.3	38018.3
-30°	4400.9	7450.6	10319.8	13030.1	15378.6	17745.1	20178.4	23236.4	26763.7	30146.5	32738.4
-32.5°	3220.2	5505.4	8608.3	11374.5	13672.9	15653.8	17522.6	20243.6	23003.3	25715.8	28193.0
-35°	2054.9	3725.1	6143.0	8959.7	11658.1	13761.2	15793.2	17764.7	19838.7	22150.5	24294.2
-37.5°	1769.3	2218.3	3703.8	5805.3	8391.3	11139.6	13137.3	15100.0	17217.2	18954.1	20756.2
-40°	1603.5	1838.1	2214.4	2959.8	4912.5	6851.3	9095.8	11194.9	13218.6	15001.5	16648.4
-42.5°	1531.1	1671.5	1823.4	2106.2	2421.3	3350.9	4987.3	6515.8	8316.9	10106.4	11669.4
-45°	1567.8	1616.0	1693.3	1832.3	1961.3	2223.2	2499.0	2787.0	4017.8	5308.3	6414.2
-47.5°	1467.4	1608.0	1683.0	1743.4	1809.6	1923.6	2041.5	2202.0	2479.5	2760.6	2983.5
-50°	1300.8	1450.6	1582.1	1711.9	1774.6	1820.1	1868.7	1962.7	2091.5	2224.0	2321.5
-52.5°	1093.7	1238.6	1383.3	1514.7	1621.8	1725.3	1827.6	1904.6	1971.9	2038.4	2070.5
-55°	908.4	1029.2	1145.9	1264.2	1381.0	1491.7	1605.0	1720.3	1827.5	1926.5	1975.5
-57.5°	734.2	835.6	935.9	1026.1	1119.2	1213.9	1318.9	1430.9	1541.7	1645.3	1698.8
-60°	568.9	646.7	728.8	802.4	871.5	936.3	1027.0	1118.9	1206.9	1282.0	1321.8
-62.5°	416.0	476.4	538.7	597.1	652.6	707.6	775.8	842.4	906.2	957.9	987.9
-65°	288.3	333.3	375.1	415.5	454.7	501.7	553.4	603.2	650.4	685.7	705.7
-67.5°	196.8	223.4	246.9	268.7	296.9	329.9	366.1	400.2	432.1	455.1	470.4
-70°	131.5	146.0	158.8	173.7	191.5	209.6	229.1	248.5	267.3	280.3	288.3
-72.5°	83.4	92.7	101.5	111.6	121.2	130.8	140.3	149.1	157.2	164.7	171.6
-75°	45.7	50.6	57.5	64.0	69.9	76.4	82.6	88.1	93.0	96.2	98.7
-77.5°	27.9	31.1	33.9	36.5	38.8	41.6	44.8	48.1	51.4	53.5	55.3
-80°	20.3	21.3	22.3	23.3	24.4	25.3	26.0	26.6	27.1	27.9	28.7
-82.5°	13.8	14.4	14.9	15.4	15.9	16.8	17.7	18.5	19.3	20.1	20.8
-85°	9.4	9.3	9.3	9.3	9.4	9.9	10.5	11.1	11.7	11.8	11.9
-87.5°	7.7	7.4	7.0	6.5	6.1	6.1	6.0	6.0	6.0	6.1	6.1
-90°	4.0	4.0	4.0	4.0	4.0	3.5	3.0	2.5	2.0	2.0	2.0



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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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5
85°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.4	3.9	3.9
82.5°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.5	4.0	4.0
80°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.5	4.0	4.0
77.5°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.6	4.0	4.0
75°	3.9	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	4.1	4.5
72.5°	6.0	6.0	6.1	6.1	6.1	6.0	6.0	5.9	5.7	5.8	6.5
70°	8.0	8.0	8.1	8.1	8.1	8.0	8.0	7.8	7.7	7.9	8.7
67.5°	9.4	9.9	10.1	10.1	10.1	9.9	9.4	8.8	8.3	8.7	10.1
65°	12.5	13.7	13.2	12.1	13.2	13.7	12.5	11.2	10.0	10.3	11.6
62.5°	10.4	10.3	10.1	10.1	10.1	10.3	10.4	10.4	10.2	11.0	12.4
60°	8.3	8.2	8.1	8.1	8.1	8.2	8.3	8.5	8.7	9.6	10.9
57.5°	9.2	9.8	10.1	10.1	10.1	9.8	9.2	8.6	8.1	8.9	9.6
55°	10.0	10.1	10.1	10.1	10.1	10.1	10.0	9.8	9.4	10.0	10.7
52.5°	11.8	12.0	12.1	12.1	12.1	12.0	11.8	11.6	11.4	11.6	11.8
50°	14.6	14.2	14.1	14.1	14.1	14.2	14.6	14.6	14.5	14.4	14.1
47.5°	18.5	18.2	18.1	18.2	18.1	18.2	18.5	18.6	19.1	19.2	18.2
45°	27.6	26.7	26.0	26.2	26.0	26.7	27.6	27.7	31.6	32.2	27.1
42.5°	52.7	54.6	56.8	60.5	56.8	54.6	52.7	49.7	55.3	63.3	68.8
40°	90.0	87.4	84.0	84.7	84.0	87.4	90.0	89.1	90.6	86.0	86.7
37.5°	187.1	180.1	166.6	157.4	166.6	180.1	187.1	181.5	166.4	146.9	144.7
35°	384.7	375.5	353.5	347.0	353.5	375.5	384.7	424.0	398.9	260.5	314.2
32.5°	1810.5	2018.1	2083.3	2086.2	2083.3	2018.1	1810.5	1677.6	1351.1	1112.3	1031.4
30°	4646.3	4595.8	4147.6	3686.2	4147.6	4595.8	4646.3	4598.7	3986.9	3521.9	2870.8
27.5°	11182.3	12548.3	13535.0	13215.5	13535.0	12548.3	11182.3	9907.6	8480.6	7918.2	6227.7
25°	20140.3	21107.1	21424.3	20953.2	21424.3	21107.1	20140.3	18224.2	16477.3	15293.2	13066.2
22.5°	31619.9	32200.4	32149.8	31089.8	32149.8	32200.4	31619.9	29748.1	28323.2	25916.0	22917.5
20°	47616.9	47524.3	48000.0	45842.8	48000.0	47524.3	47616.9	44906.2	42974.5	38692.1	34182.3
17.5°	70242.5	73958.6	76787.9	76516.9	76787.9	73958.6	70242.5	65134.4	60446.5	54695.9	47218.0
15°	94277.0	99892.0	103729.9	103979.0	103729.9	99892.0	94277.0	87392.3	78590.1	70416.4	59662.3
12.5°	115169.5	121174.3	124433.8	123938.6	124433.8	121174.3	115169.5	105998.9	94656.9	82565.9	70134.3
10°	128478.6	133100.5	136530.9	137383.1	136530.9	133100.5	128478.6	120786.5	108008.7	94185.7	78254.5
7.5°	133815.3	138141.1	141131.4	141086.5	141131.4	138141.1	133815.3	127309.1	115829.6	101391.1	84652.4
5°	134802.9	139062.0	140754.5	141075.3	140754.5	139062.0	134802.9	128753.1	118444.7	103992.4	86728.0
2.5°	135774.2	139305.3	141144.9	140445.8	141144.9	139305.3	135774.2	129250.1	120295.5	107022.3	89668.7
0°	136154.3	138985.1	140422.7	139977.7	140422.7	138985.1	136154.3	131051.7	122381.9	109616.3	90257.1
-2.5°	136024.1	137886.2	139103.1	138682.4	139103.1	137886.2	136024.1	130491.6	121688.1	108698.5	90632.3
-5°	132543.2	134146.8	134713.8	135024.4	134713.8	134146.8	132543.2	127557.6	119162.8	105715.3	88565.9
-7.5°	121357.1	123464.8	122787.0	123809.3	122787.0	123464.8	121357.1	117700.9	111089.2	98561.4	81678.2
-10°	110291.0	112342.1	111638.4	112297.8	111638.4	112342.1	110291.0	106120.5	99354.0	88247.5	72643.1
-12.5°	99855.9	102435.9	102397.6	103333.4	102397.6	102435.9	99855.9	94115.7	87071.2	75647.7	63730.5
-15°	87310.4	90596.3	92385.8	93533.7	92385.8	90596.3	87310.4	80501.6	72476.5	63217.3	53714.8
-17.5°	74058.0	78283.6	81294.1	81756.8	81294.1	78283.6	74058.0	67185.6	60500.3	53032.6	46078.2
-20°	63869.7	67679.2	70512.6	71426.4	70512.6	67679.2	63869.7	58807.4	52915.0	47181.6	40716.9



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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°	55334.9	58478.5	60527.0	61031.6	60527.0	58478.5	55334.9	51763.0	46826.8	40970.3	35607.0
-25°	47072.8	48830.5	49905.8	50311.8	49905.8	48830.5	47072.8	44399.1	40318.4	35337.8	30498.7
-27.5°	40348.5	41602.1	42139.0	42350.2	42139.0	41602.1	40348.5	38018.3	34969.3	30765.1	26545.5
-30°	34719.6	35682.2	36272.1	36491.0	36272.1	35682.2	34719.6	32738.4	30146.5	26763.7	23236.4
-32.5°	30086.0	31044.2	31665.8	31888.8	31665.8	31044.2	30086.0	28193.0	25715.8	23003.3	20243.6
-35°	25747.4	26539.6	27105.9	27369.3	27105.9	26539.6	25747.4	24294.2	22150.5	19838.7	17764.7
-37.5°	21912.5	22627.2	23098.8	23245.2	23098.8	22627.2	21912.5	20756.2	18954.1	17217.2	15100.0
-40°	17576.2	18221.1	18579.9	18562.3	18579.9	18221.1	17576.2	16648.4	15001.5	13218.6	11194.9
-42.5°	12593.0	13244.4	13704.8	14050.8	13704.8	13244.4	12593.0	11669.4	10106.4	8316.9	6515.8
-45°	7154.3	7689.5	8034.1	8195.6	8034.1	7689.5	7154.3	6414.2	5308.3	4017.8	2787.0
-47.5°	3115.9	3213.1	3261.9	3262.5	3261.9	3213.1	3115.9	2983.5	2760.6	2479.5	2202.0
-50°	2392.1	2453.2	2488.4	2497.8	2488.4	2453.2	2392.1	2321.5	2224.0	2091.5	1962.7
-52.5°	2093.1	2114.2	2123.7	2124.6	2123.7	2114.2	2093.1	2070.5	2038.4	1971.9	1904.6
-55°	2016.9	2052.0	2066.1	2064.0	2066.1	2052.0	2016.9	1975.5	1926.5	1827.5	1720.3
-57.5°	1743.6	1778.7	1799.0	1805.8	1799.0	1778.7	1743.6	1698.8	1645.3	1541.7	1430.9
-60°	1352.7	1374.7	1393.8	1406.3	1393.8	1374.7	1352.7	1321.8	1282.0	1206.9	1118.9
-62.5°	1012.4	1030.9	1048.7	1061.3	1048.7	1030.9	1012.4	987.9	957.9	906.2	842.4
-65°	720.2	729.3	744.1	756.6	744.1	729.3	720.2	705.7	685.7	650.4	603.2
-67.5°	482.5	491.3	496.6	498.4	496.6	491.3	482.5	470.4	455.1	432.1	400.2
-70°	293.9	297.1	303.4	308.7	303.4	297.1	293.9	288.3	280.3	267.3	248.5
-72.5°	177.8	183.1	183.1	181.6	183.1	183.1	177.8	171.6	164.7	157.2	149.1
-75°	100.5	101.9	102.6	102.9	102.6	101.9	100.5	98.7	96.2	93.0	88.1
-77.5°	56.7	57.9	57.4	56.5	57.4	57.9	56.7	55.3	53.5	51.4	48.1
-80°	29.5	30.2	30.3	30.3	30.3	30.2	29.5	28.7	27.9	27.1	26.6
-82.5°	21.4	22.1	21.2	20.2	21.2	22.1	21.4	20.8	20.1	19.3	18.5
-85°	12.0	12.1	12.1	12.1	12.1	12.1	12.0	11.9	11.8	11.7	11.1
-87.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.0	6.0
-90°	2.0	2.0	1.0	0.0	1.0	2.0	2.0	2.0	2.0	2.0	2.5



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	5.1	5.6	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
87.5°	3.0	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.2	4.3	4.3	4.2
80°	4.0	4.0	4.0	4.3	4.5	4.6	4.6	4.9	5.2	5.6	5.6
77.5°	4.0	4.0	4.1	4.6	5.2	5.7	6.1	6.0	5.9	6.0	6.0
75°	4.7	4.9	5.1	5.3	5.6	5.9	6.3	6.6	6.8	6.8	6.5
72.5°	7.1	7.5	7.7	7.7	7.5	7.6	7.8	7.9	8.0	8.1	7.7
70°	9.6	10.4	11.3	12.0	12.2	12.0	11.7	11.0	10.0	9.6	8.9
67.5°	11.3	12.3	14.1	16.2	17.6	18.1	17.9	16.8	15.7	14.5	11.5
65°	12.9	14.2	15.9	17.8	20.0	22.4	25.4	25.7	24.4	21.6	15.6
62.5°	14.1	15.9	17.1	18.4	20.1	23.8	30.2	33.7	34.6	30.5	22.9
60°	12.5	14.3	15.9	17.5	19.1	25.3	34.4	41.4	46.1	39.3	29.6
57.5°	10.0	10.9	13.1	15.3	17.6	25.9	36.5	47.7	55.2	44.8	35.0
55°	11.7	12.1	12.5	13.2	14.9	24.0	35.1	47.0	53.5	46.8	36.0
52.5°	12.0	12.6	13.2	13.8	15.9	21.9	30.0	41.9	45.6	40.1	33.7
50°	13.9	13.9	13.9	13.9	16.3	20.4	26.8	35.6	35.2	32.8	27.5
47.5°	17.9	17.6	16.3	15.9	18.2	19.2	23.9	27.8	28.6	26.2	22.2
45°	32.3	31.8	22.8	23.7	25.1	25.6	23.8	26.3	25.8	23.7	18.7
42.5°	60.7	62.4	63.2	46.8	38.1	37.5	35.0	32.9	30.3	25.3	22.7
40°	85.4	75.4	78.5	79.0	64.3	54.2	54.2	46.0	41.1	34.3	32.5
37.5°	130.7	108.8	116.2	100.7	92.0	87.3	86.3	73.1	55.6	60.9	57.2
35°	257.3	225.5	232.9	198.6	146.2	168.2	143.5	116.5	101.8	103.9	93.6
32.5°	626.9	618.4	504.2	426.8	367.0	324.4	269.0	190.8	199.8	185.1	148.5
30°	2170.4	1610.7	1137.2	1012.8	932.3	623.7	463.1	449.6	359.5	299.2	225.3
27.5°	5611.8	3609.7	2725.1	2767.2	2045.1	1380.3	1115.0	907.6	617.2	465.9	355.9
25°	11875.0	9233.7	6902.9	6172.2	4738.3	3129.4	2494.1	1832.1	1163.5	674.4	546.9
22.5°	20534.0	17268.8	13700.2	10956.3	8754.3	6620.3	4877.4	3160.8	1859.1	1078.3	775.2
20°	29353.4	25945.3	21257.1	17012.9	13592.4	10306.1	7894.3	5261.6	3146.0	1694.1	1017.5
17.5°	40155.7	34601.0	28468.6	22901.1	18772.7	14796.8	10767.2	7457.7	4646.8	2340.4	1265.9
15°	50633.4	42375.5	34728.2	28355.8	23421.8	17685.2	13201.4	9474.9	6360.4	3366.4	1747.3
12.5°	58915.7	49279.0	40641.9	32061.5	26168.6	19944.4	15448.5	11547.3	7917.1	4435.9	2158.7
10°	65686.7	54724.6	44695.3	35905.9	28746.7	22076.9	16895.2	12540.1	8501.1	5189.9	2534.6
7.5°	69836.5	58291.7	47971.2	38562.0	30928.1	24021.6	17770.4	12949.1	8795.6	5723.5	2866.6
5°	71866.2	60605.5	50103.5	39842.4	32336.2	25614.8	18631.2	13075.3	8837.3	6055.0	3145.0
2.5°	73835.5	61913.1	51314.1	40351.9	33109.7	26711.7	19494.4	13162.7	8918.2	6207.0	3237.1
0°	74622.4	62484.3	51841.2	40479.9	33387.9	27102.9	20283.3	13195.4	8970.4	6210.3	3254.5
-2.5°	73783.0	61702.5	51401.1	40118.6	33087.0	27081.7	20569.5	14191.0	9535.2	6511.6	3346.1
-5°	71858.4	59696.8	49063.6	38575.5	31453.2	25609.1	19699.3	14231.5	9666.2	6549.4	3351.0
-7.5°	67084.6	56013.6	45738.2	36208.8	29151.0	23402.8	18063.1	13264.5	9073.4	5973.1	3080.2
-10°	60225.6	51048.7	41290.7	32893.0	26360.7	20930.5	16350.5	12096.0	8310.8	5284.0	2745.3
-12.5°	53227.5	44834.0	36326.9	28831.0	23121.4	18109.3	14392.7	10741.9	7378.7	4501.3	2355.7
-15°	45206.9	37445.0	31081.9	25162.1	19683.4	15328.5	12337.5	9401.4	6560.4	3717.0	1919.3
-17.5°	39161.7	31596.5	26434.4	21920.5	16996.8	13000.5	10692.4	8387.6	5766.0	3132.2	1542.1
-20°	34667.6	28821.5	23617.9	19140.0	15029.0	11800.9	9634.4	7429.5	4835.4	2629.7	1459.9



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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°	30977.7	26480.4	21699.8	16933.6	13507.5	11016.7	8789.9	6436.6	3760.7	1999.2	1356.4
-25°	27202.5	23891.5	19666.0	15653.2	12394.5	10028.2	7692.9	5098.4	2939.9	1604.4	1245.6
-27.5°	23558.3	20648.8	17643.5	14222.9	11570.5	8807.7	6167.4	3688.7	2038.3	1459.2	1205.4
-30°	20178.4	17745.1	15378.6	13030.1	10319.8	7450.6	4400.9	2636.1	1665.2	1327.8	1163.7
-32.5°	17522.6	15653.8	13672.9	11374.5	8608.3	5505.4	3220.2	1831.3	1467.5	1273.2	1167.2
-35°	15793.2	13761.2	11658.1	8959.7	6143.0	3725.1	2054.9	1624.7	1370.7	1230.1	1183.6
-37.5°	13137.3	11139.6	8391.3	5805.3	3703.8	2218.3	1769.3	1493.4	1305.6	1244.0	1148.3
-40°	9095.8	6851.3	4912.5	2959.8	2214.4	1838.1	1603.5	1417.8	1339.1	1222.4	1086.6
-42.5°	4987.3	3350.9	2421.3	2106.2	1823.4	1671.5	1531.1	1454.4	1332.8	1166.5	992.8
-45°	2499.0	2223.2	1961.3	1832.3	1693.3	1616.0	1567.8	1423.4	1253.6	1066.1	884.6
-47.5°	2041.5	1923.6	1809.6	1743.4	1683.0	1608.0	1467.4	1315.1	1120.2	939.8	790.2
-50°	1868.7	1820.1	1774.6	1711.9	1582.1	1450.6	1300.8	1140.6	969.1	819.1	686.8
-52.5°	1827.6	1725.3	1621.8	1514.7	1383.3	1238.6	1093.7	960.3	819.4	696.1	583.1
-55°	1605.0	1491.7	1381.0	1264.2	1145.9	1029.2	908.4	790.4	682.0	574.7	480.9
-57.5°	1318.9	1213.9	1119.2	1026.1	935.9	835.6	734.2	636.0	549.5	462.8	379.4
-60°	1027.0	936.3	871.5	802.4	728.8	646.7	568.9	493.7	421.4	356.1	289.5
-62.5°	775.8	707.6	652.6	597.1	538.7	476.4	416.0	363.3	310.4	256.6	212.9
-65°	553.4	501.7	454.7	415.5	375.1	333.3	288.3	251.2	218.1	183.2	148.2
-67.5°	366.1	329.9	296.9	268.7	246.9	223.4	196.8	168.3	146.9	128.6	109.1
-70°	229.1	209.6	191.5	173.7	158.8	146.0	131.5	116.2	100.9	87.1	73.3
-72.5°	140.3	130.8	121.2	111.6	101.5	92.7	83.4	73.2	62.4	51.1	42.3
-75°	82.6	76.4	69.9	64.0	57.5	50.6	45.7	41.4	37.1	32.7	28.4
-77.5°	44.8	41.6	38.8	36.5	33.9	31.1	27.9	25.2	23.6	21.9	20.2
-80°	26.0	25.3	24.4	23.3	22.3	21.3	20.3	18.9	17.5	16.2	15.0
-82.5°	17.7	16.8	15.9	15.4	14.9	14.4	13.8	12.9	12.2	11.5	10.8
-85°	10.5	9.9	9.4	9.3	9.3	9.3	9.4	9.3	9.2	9.0	8.9
-87.5°	6.0	6.1	6.1	6.5	7.0	7.4	7.7	7.7	7.6	7.6	7.5
-90°	3.0	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0





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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°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	5.1	5.6
85°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	5.1	5.6
82.5°	4.0	4.0	4.0	4.0	4.3	4.5	4.6	4.6	4.8	5.1	5.6
80°	5.0	4.5	4.2	4.1	4.6	5.1	5.4	5.5	5.4	5.5	5.7
77.5°	5.7	5.1	4.4	4.1	4.7	5.2	5.7	6.1	6.0	5.8	5.9
75°	6.1	5.9	5.4	5.0	5.0	5.2	5.7	6.1	6.1	6.1	6.0
72.5°	6.9	6.4	6.2	6.1	5.7	5.7	5.9	6.1	6.1	6.1	6.1
70°	7.9	6.9	6.2	6.1	6.1	6.1	6.0	6.1	6.1	6.1	6.1
67.5°	9.1	8.0	6.9	6.2	6.1	6.1	6.1	6.1	6.1	6.1	6.1
65°	12.1	9.6	8.0	7.0	6.3	6.1	6.1	6.1	6.1	6.1	6.1
62.5°	16.3	11.2	9.1	7.8	6.8	6.2	6.1	6.1	6.1	6.1	6.1
60°	22.0	15.3	10.7	9.2	7.6	6.3	6.1	6.1	6.1	6.1	6.1
57.5°	25.7	19.0	14.4	11.1	9.1	7.2	6.3	6.3	6.1	6.1	6.1
55°	27.4	20.5	17.2	13.5	10.7	8.8	7.0	6.6	6.2	6.1	6.2
52.5°	25.6	21.5	18.8	15.3	12.1	10.3	8.5	7.0	6.6	6.1	6.3
50°	21.3	21.5	19.8	16.7	13.0	11.1	9.8	8.1	7.1	6.3	6.4
47.5°	19.1	20.9	20.5	17.9	14.3	11.9	10.6	9.1	7.7	6.8	6.5
45°	19.9	20.2	20.9	18.9	15.8	13.2	11.3	10.0	8.5	7.4	6.6
42.5°	22.6	22.1	21.1	20.3	17.8	14.7	12.0	10.6	9.2	8.0	6.9
40°	29.8	26.2	22.7	22.4	20.2	16.2	13.2	11.2	9.8	8.6	7.5
37.5°	39.4	33.9	27.7	27.2	23.6	18.7	14.5	11.8	10.4	9.2	8.0
35°	69.4	44.8	43.2	38.3	29.8	21.5	15.7	12.5	11.1	9.8	8.5
32.5°	107.6	81.4	76.5	57.3	37.9	24.7	17.7	14.2	11.9	10.3	8.9
30°	179.9	172.4	124.8	81.4	50.9	32.2	21.2	16.1	12.7	10.8	9.4
27.5°	316.5	292.6	195.1	125.7	74.0	42.0	26.5	18.3	13.6	11.4	9.8
25°	472.5	427.5	313.1	184.6	100.3	66.9	32.5	20.9	15.1	12.1	10.2
22.5°	650.3	568.8	450.7	252.6	154.5	100.1	45.9	25.7	17.0	12.8	10.6
20°	827.5	718.0	596.3	338.3	222.9	146.2	69.8	30.8	19.0	13.5	11.0
17.5°	1010.7	841.3	674.8	441.8	293.8	196.0	98.0	36.2	21.1	14.2	11.3
15°	1159.0	922.6	743.6	531.2	360.3	248.7	129.5	41.8	23.2	14.8	11.6
12.5°	1280.6	999.0	807.4	607.6	422.6	303.0	163.1	47.4	25.4	15.5	11.8
10°	1390.8	1069.7	865.9	672.0	480.8	357.9	197.8	52.9	27.7	16.1	11.9
7.5°	1488.5	1134.2	918.7	725.6	527.8	392.2	219.3	58.0	30.1	16.7	12.0
5°	1564.6	1185.6	952.4	741.3	532.4	400.9	235.4	62.8	32.4	17.3	12.0
2.5°	1590.7	1220.3	972.8	746.2	533.3	404.4	247.8	67.0	34.5	17.8	12.1
0°	1600.0	1246.9	986.6	744.5	530.6	403.5	256.2	70.6	36.3	18.2	12.1
-2.5°	1613.1	1252.5	1002.2	775.8	557.6	418.0	269.9	88.1	47.4	24.4	14.3
-5°	1610.9	1249.7	1011.5	800.2	580.0	428.8	279.6	104.5	57.9	30.2	16.4
-7.5°	1555.8	1218.3	1003.5	814.6	597.0	435.9	285.7	119.5	67.5	35.6	18.3
-10°	1477.7	1166.7	973.5	806.2	609.0	445.1	289.3	132.7	76.1	40.4	20.0
-12.5°	1385.7	1109.9	945.6	796.3	616.9	455.8	296.0	145.4	83.6	44.3	21.4
-15°	1280.5	1048.8	922.3	786.7	620.8	462.8	298.0	156.2	90.8	47.9	22.4
-17.5°	1172.8	984.3	905.7	778.8	621.1	466.1	295.4	164.1	96.4	51.5	24.1
-20°	1137.3	963.1	895.5	774.0	617.7	465.8	287.9	168.8	100.0	53.9	26.1



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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°	1107.2	982.6	894.4	765.9	611.8	462.0	275.5	169.9	101.6	55.1	27.5
-25°	1074.8	1003.6	888.4	744.8	602.4	444.5	267.4	167.2	101.0	55.0	28.3
-27.5°	1080.9	1015.6	872.8	714.5	574.4	421.1	263.5	166.1	99.1	53.5	28.3
-30°	1104.8	991.5	836.3	676.4	540.8	382.0	254.6	162.1	97.2	52.6	27.7
-32.5°	1109.0	955.9	785.7	635.0	496.2	341.8	236.8	155.1	93.4	51.7	27.5
-35°	1059.6	897.6	725.1	587.1	447.7	316.1	216.2	144.8	87.6	49.8	27.0
-37.5°	1004.0	825.7	667.0	533.4	398.2	286.1	198.1	131.5	79.8	46.9	26.0
-40°	918.2	753.1	608.3	478.7	357.2	251.7	177.1	118.5	74.0	42.8	24.4
-42.5°	826.1	683.2	549.0	423.9	315.1	225.2	154.2	104.0	67.1	39.4	22.1
-45°	743.8	609.9	486.0	372.8	270.6	195.7	136.2	88.9	59.2	36.1	19.9
-47.5°	657.1	535.6	422.0	317.2	234.4	166.0	116.5	79.1	50.6	31.9	18.3
-50°	570.4	459.3	356.2	268.6	194.6	142.0	97.4	68.4	44.6	26.7	16.4
-52.5°	480.5	382.3	294.7	219.5	162.9	116.0	84.3	57.2	37.9	23.1	14.2
-55°	389.8	309.8	235.0	178.2	131.7	97.6	70.2	48.6	30.6	19.9	11.8
-57.5°	307.5	238.0	186.4	141.0	106.8	80.3	57.8	39.2	25.6	16.5	11.5
-60°	229.4	185.2	142.7	111.9	85.9	64.0	46.1	30.7	21.1	13.4	11.1
-62.5°	171.8	136.7	111.9	86.9	66.5	49.3	34.7	25.0	16.3	12.7	10.7
-65°	125.9	104.0	82.9	65.1	48.7	35.7	27.4	18.9	14.3	11.8	10.1
-67.5°	89.7	74.0	59.0	44.0	34.8	27.2	19.8	15.7	12.9	10.8	9.6
-70°	59.7	46.6	38.7	32.0	25.1	19.2	16.3	13.6	11.4	10.3	9.1
-72.5°	37.3	32.2	26.9	21.5	18.6	16.0	13.6	11.7	10.7	9.7	8.6
-75°	24.1	21.6	19.5	17.2	14.9	12.9	11.8	11.0	10.0	9.0	8.4
-77.5°	18.4	16.6	14.7	13.4	12.4	11.5	10.8	10.2	9.4	8.7	8.3
-80°	13.9	12.9	12.0	11.2	10.6	10.1	9.8	9.4	8.9	8.4	8.2
-82.5°	10.2	10.0	9.7	9.5	9.3	9.1	8.9	8.6	8.3	8.1	7.9
-85°	8.8	8.7	8.5	8.4	8.2	8.1	7.9	7.8	7.6	7.5	7.3
-87.5°	7.5	7.4	7.3	7.2	7.2	7.1	7.0	6.9	6.9	6.8	6.7
-90°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	5.1	5.6



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.1	6.1	6.1	6.1	6.1	6.1	6.1
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1
85°	6.1	6.1	6.1	6.1	6.1	6.1	6.1
82.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1
80°	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1
72.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1
70°	6.1	6.1	6.1	6.1	6.1	6.1	6.1
67.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1
65°	6.1	6.1	6.1	6.1	6.1	6.1	6.1
62.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1
60°	6.1	6.1	6.1	6.1	6.1	6.1	6.1
57.5°	6.2	6.1	6.1	6.1	6.1	6.1	6.1
55°	6.3	6.1	6.1	6.1	6.1	6.1	6.1
52.5°	6.5	6.1	6.1	6.1	6.1	6.1	6.1
50°	6.7	6.3	6.1	6.1	6.1	6.1	6.1
47.5°	6.9	6.5	6.1	6.1	6.1	6.1	6.1
45°	7.0	6.7	6.1	6.1	6.1	6.1	6.1
42.5°	7.0	7.0	6.1	6.1	6.1	6.1	6.1
40°	7.1	7.2	6.2	6.1	6.1	6.1	6.1
37.5°	7.2	7.5	6.4	6.2	6.1	6.1	6.1
35°	7.4	7.7	6.6	6.2	6.1	6.1	6.1
32.5°	7.5	7.7	6.8	6.3	6.1	6.1	6.1
30°	7.9	7.8	7.0	6.4	6.1	6.1	6.1
27.5°	8.3	7.9	7.3	6.5	6.1	6.1	6.1
25°	8.7	8.0	7.5	6.6	6.1	6.1	6.1
22.5°	9.0	8.1	7.6	6.8	6.1	6.1	6.1
20°	9.3	8.1	7.8	6.9	6.1	6.1	6.1
17.5°	9.5	8.1	7.9	7.0	6.1	6.1	6.1
15°	9.7	8.1	8.0	7.2	6.1	6.1	6.1
12.5°	9.8	8.1	8.0	7.4	6.1	6.1	6.1
10°	9.9	8.1	8.1	7.5	6.1	6.1	6.1
7.5°	10.0	8.1	8.1	7.7	6.1	6.1	6.1
5°	10.1	8.1	8.1	7.8	6.1	6.1	6.1
2.5°	10.1	8.1	8.1	7.8	6.1	6.1	6.1
0°	10.1	8.1	8.1	8.1	6.1	6.1	6.1
-2.5°	10.6	8.3	8.1	8.1	6.2	6.1	6.1
-5°	11.1	8.5	8.1	8.1	6.3	6.1	6.1
-7.5°	11.6	8.7	8.1	8.1	6.4	6.1	6.1
-10°	11.9	8.9	8.1	8.0	6.4	6.1	6.1
-12.5°	12.3	9.1	8.1	8.0	6.5	6.1	6.1
-15°	12.5	9.2	8.1	8.0	6.6	6.1	6.1
-17.5°	12.7	9.3	8.1	7.9	6.6	6.1	6.1
-20°	13.2	9.3	8.1	7.9	6.7	6.1	6.1



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	14.3	9.3	8.1	7.9	6.7	6.1	6.1
-25°	15.0	9.5	8.1	7.9	6.8	6.1	6.1
-27.5°	15.4	9.7	8.1	7.9	6.8	6.1	6.1
-30°	15.4	9.7	8.1	7.9	6.8	6.1	6.1
-32.5°	15.0	9.6	8.2	7.9	6.8	6.1	6.1
-35°	14.8	9.4	8.3	8.0	6.8	6.1	6.1
-37.5°	14.5	9.2	8.4	8.0	6.8	6.1	6.1
-40°	13.9	9.2	8.4	8.1	6.8	6.1	6.1
-42.5°	13.1	9.3	8.4	8.1	6.7	6.1	6.1
-45°	12.1	9.3	8.4	8.1	6.7	6.1	6.1
-47.5°	10.8	9.3	8.4	8.1	6.6	6.1	6.1
-50°	10.5	9.2	8.4	8.0	6.5	6.1	6.1
-52.5°	10.4	9.1	8.4	7.8	6.4	6.1	6.1
-55°	10.2	9.0	8.3	7.6	6.3	6.1	6.1
-57.5°	10.0	8.9	8.2	7.4	6.2	6.1	6.1
-60°	9.7	8.7	8.1	7.2	6.1	6.1	6.1
-62.5°	9.3	8.5	7.9	7.1	6.1	6.1	6.1
-65°	9.0	8.2	7.7	6.9	6.1	6.1	6.1
-67.5°	8.6	8.0	7.6	6.7	6.1	6.1	6.1
-70°	8.2	7.9	7.4	6.5	6.1	6.1	6.1
-72.5°	8.1	7.8	7.2	6.5	6.1	6.1	6.1
-75°	8.1	7.7	7.1	6.4	6.1	6.1	6.1
-77.5°	8.1	7.6	6.9	6.4	6.1	6.1	6.1
-80°	8.1	7.4	6.8	6.3	6.1	6.1	6.1
-82.5°	7.6	7.1	6.6	6.3	6.1	6.1	6.1
-85°	7.1	6.7	6.4	6.2	6.1	6.1	6.1
-87.5°	6.6	6.4	6.3	6.2	6.1	6.1	6.1
-90°	6.1	6.1	6.1	6.1	6.1	6.1	6.1

(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

