

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: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-80-1S-CV2-S**

Issue Date: 8/29/2023

**Test Information**

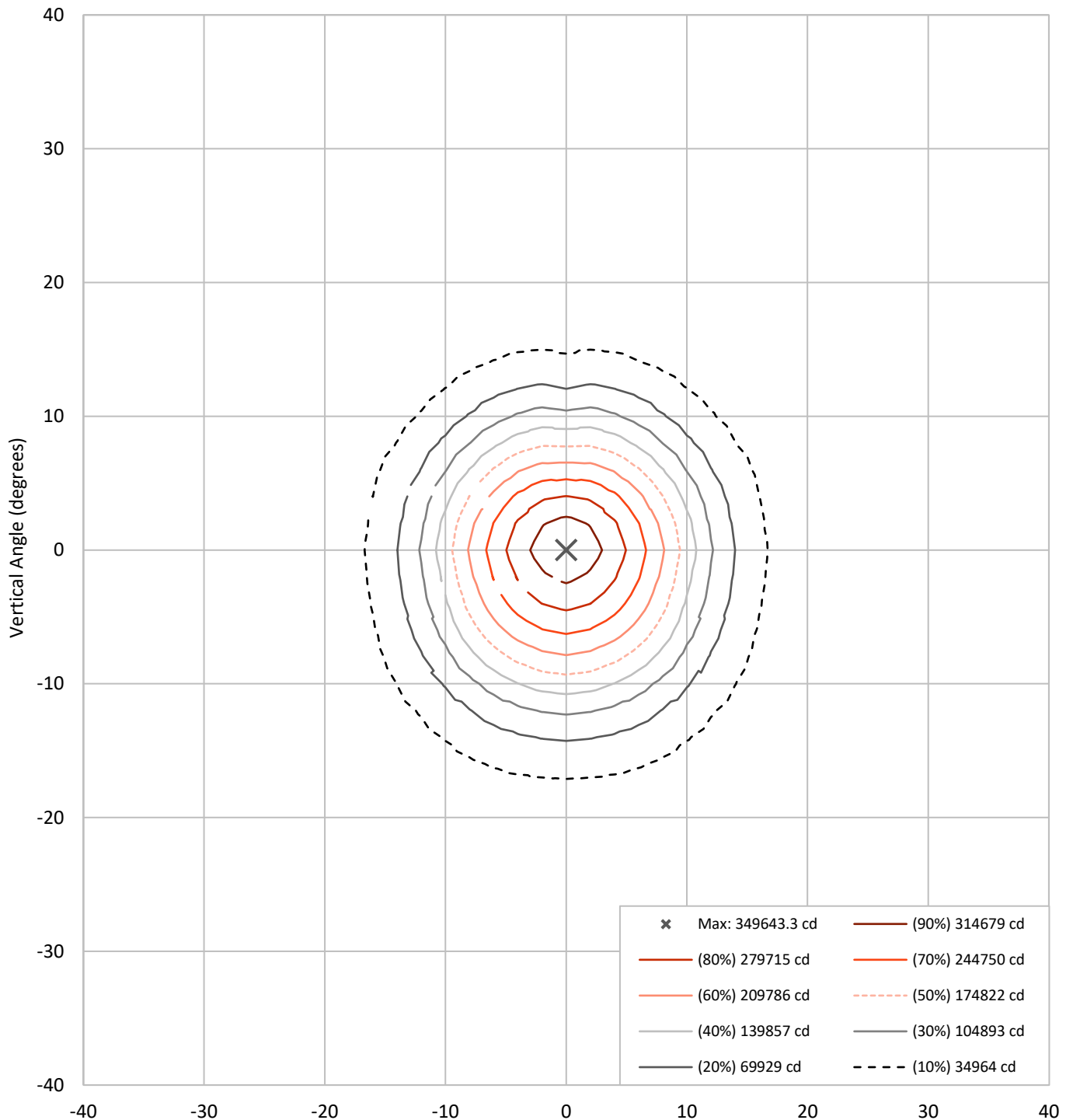
Test Method: LM-79-08  
Report Number: P701436 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320L-57-80-1S-CV2-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 1S 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:	40310.9 lumens	Max Intensity:	349643.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	118.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.9°H x 17.1°V	Field Angle (10%):	33.2°H x 31.5°V
Beam Lumens:	18568.1 lumens	Field Lumens:	34131 lumens
Beam Efficiency:	46.1%	Field Efficiency:	84.7%
Input Watts (W):	341.6		
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





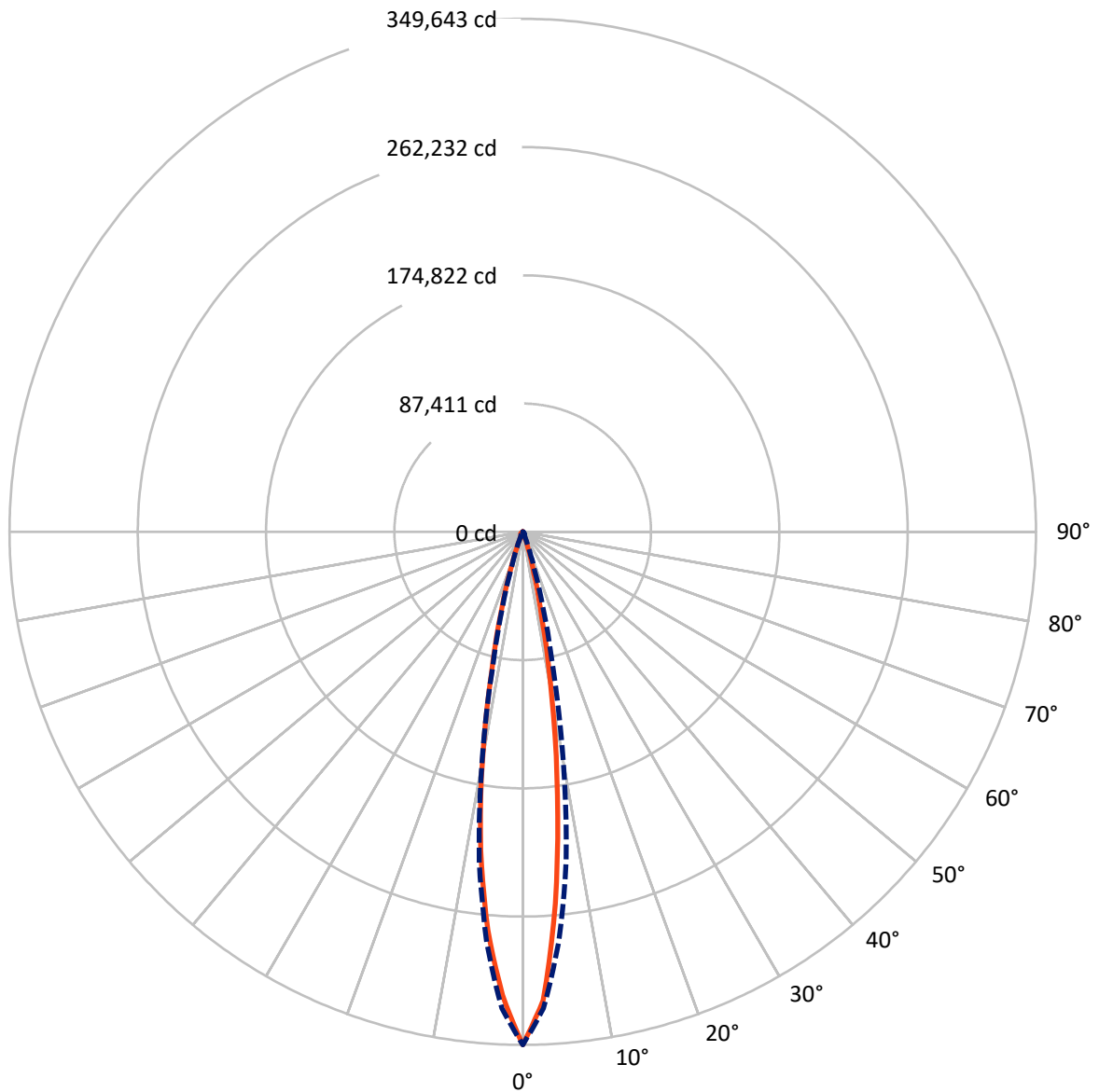
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### Lumen Table

90	0.1		0.2		0.3		0.3		0.3		0.3		0.2		0.1	
80	0.1		0.2		0.3		0.3		0.3		0.3		0.2		0.1	
70	0.1	0.1	0.1	0.3	0.4	0.2	0.2	0.1	0.1	0.2	0.2	0.4	0.3	0.1	0.1	0.1
60		0.1	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.1	
50	0.1	0.1	0.2	0.3	0.3	0.4	0.6	0.7	0.7	0.6	0.4	0.3	0.3	0.2	0.1	0.1
40		0.1	0.5	0.9	1.9	3.1	3.2	3.7	3.7	3.2	3.1	1.9	0.9	0.5	0.1	
30	0.1	0.2	1.4	4.9	13.0	15.8	20.9	39.0	39.0	20.9	15.8	13.0	4.9	1.4	0.2	0.1
20		0.5	3.1	12.7	27.7	39.0	266.2	1070.4	1070.4	266.2	39.0	27.7	12.7	3.1	0.5	
10	0.2	0.9	5.4	24.5	41.9	97.1	1390.9	6002.4	6002.4	1390.9	97.1	41.9	24.5	5.4	0.9	0.2
0		1.5	7.1	28.9	48.4	96.4	1508.9	6424.2	6424.2	1508.9	96.4	48.4	28.9	7.1	1.5	
-10	0.3	1.7	7.3	27.2	51.5	60.5	437.7	1657.3	1657.3	437.7	60.5	51.5	27.2	7.3	1.7	0.3
-20		1.6	6.3	15.0	39.3	48.7	59.4	109.9	109.9	59.4	48.7	39.3	15.0	6.3	1.6	
-30	0.2	1.4	4.8	8.8	21.9	41.5	49.7	51.5	51.5	49.7	41.5	21.9	8.8	4.8	1.4	0.2
-40		0.9	3.3	7.0	11.2	20.3	37.1	51.2	51.2	37.1	20.3	11.2	7.0	3.3	0.9	
-50	0.2	0.4	1.9	4.7	8.6	12.2	15.2	17.0	17.0	15.2	12.2	8.6	4.7	1.9	0.4	0.2
-60		0.2	0.6	2.2	4.6	7.4	10.4	12.3	12.3	10.4	7.4	4.6	2.2	0.6	0.2	
-70	0.1	0.5	1.7	4.1	6.0	4.1	1.7	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
-80		0.1	0.5	1.7	4.1	6.0	4.1	1.7	0.5	0.1	0.1	0.1	0.1	0.1	0.1	
-90	0.1		0.5		1.7		4.1		6.0		4.1		1.7		0.5	

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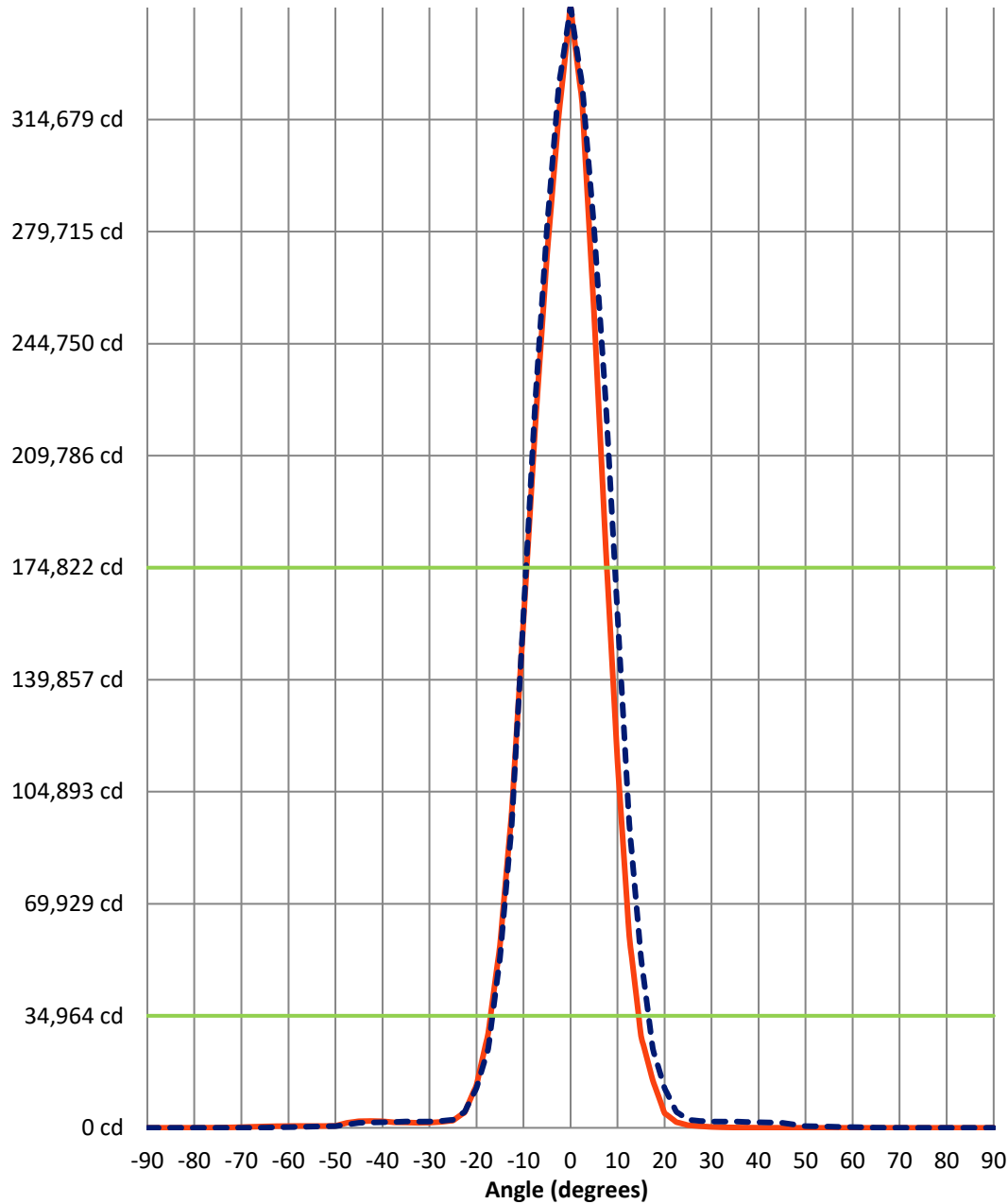
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 18.9°  
V Angle: 17.1°  
Lumens: 18568.1  
Efficiency: 46.1%

**Field:**  
H Angle: 33.2°  
V Angle: 31.5°  
Lumens: 34131  
Efficiency: 84.7%

**Spill:**  
Lumens: 6179.9  
Efficiency: 15.3%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.5	4.8	5.0	5.2
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.1	3.9	3.6	3.4
85°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.1	3.9	3.6	3.4
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.1	3.9	3.7	3.7
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.1	4.0	4.0	4.0
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.2	4.3
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
67.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.4
65°	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.3	4.5	4.6	4.5
62.5°	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.5	4.7	4.7	4.5
60°	4.3	4.3	4.3	4.3	4.3	4.5	4.5	4.7	4.9	4.8	4.6
57.5°	4.3	4.3	4.3	4.3	4.4	4.6	4.6	5.0	5.0	4.8	4.6
55°	4.3	4.3	4.3	4.3	4.5	4.7	4.8	5.2	5.1	4.9	4.7
52.5°	4.3	4.3	4.3	4.3	4.6	4.8	5.0	5.2	5.1	4.9	4.7
50°	4.3	4.3	4.3	4.3	4.7	4.9	5.1	5.2	5.1	5.0	5.3
47.5°	4.3	4.3	4.3	4.3	4.8	5.0	5.2	5.2	5.2	5.0	5.8
45°	4.3	4.3	4.3	4.4	4.9	5.0	5.2	5.2	5.2	5.4	6.2
42.5°	4.3	4.3	4.3	4.5	5.0	5.1	5.2	5.2	5.3	5.7	6.8
40°	4.3	4.3	4.3	4.6	5.1	5.1	5.2	5.3	5.4	5.9	7.3
37.5°	4.3	4.3	4.3	4.6	5.1	5.2	5.2	5.4	5.6	6.2	7.6
35°	4.3	4.3	4.3	4.7	5.1	5.2	5.2	5.5	5.9	6.8	7.9
32.5°	4.3	4.3	4.3	4.8	5.2	5.2	5.2	5.6	6.1	7.6	8.8
30°	4.3	4.3	4.3	4.8	5.2	5.2	5.3	5.7	6.3	8.4	10.0
27.5°	4.3	4.3	4.3	4.9	5.2	5.2	5.4	5.9	6.7	9.3	11.3
25°	4.3	4.3	4.3	4.9	5.2	5.2	5.5	6.1	7.4	10.3	12.8
22.5°	4.3	4.3	4.3	5.0	5.2	5.2	5.6	6.2	8.1	11.5	15.0
20°	4.3	4.3	4.3	5.0	5.2	5.3	5.7	6.4	8.9	12.7	17.2
17.5°	4.3	4.3	4.3	5.1	5.2	5.3	5.8	6.6	9.7	14.0	19.3
15°	4.3	4.3	4.3	5.1	5.2	5.4	6.0	6.8	10.4	15.3	21.2
12.5°	4.3	4.3	4.3	5.1	5.2	5.5	6.2	7.1	11.2	16.6	23.1
10°	4.3	4.3	4.3	5.2	5.2	5.6	6.3	7.4	12.0	18.1	25.8
7.5°	4.3	4.3	4.3	5.2	5.2	5.7	6.5	7.7	12.8	19.7	30.7
5°	4.3	4.3	4.3	5.2	5.2	5.8	6.6	8.0	13.5	21.3	35.7
2.5°	4.3	4.3	4.3	5.2	5.2	5.9	6.8	8.3	14.1	22.8	40.7
0°	4.3	4.3	4.3	5.2	5.2	6.0	6.9	8.6	14.6	24.1	45.5
-2.5°	4.3	4.3	4.3	5.2	5.3	6.1	7.3	10.3	18.4	31.3	57.7
-5°	4.3	4.3	4.4	5.2	5.3	6.2	7.8	12.0	22.1	38.1	69.1
-7.5°	4.3	4.3	4.4	5.2	5.4	6.3	8.2	13.5	25.5	44.4	79.5
-10°	4.3	4.3	4.5	5.2	5.5	6.3	8.5	14.9	28.4	50.1	88.7
-12.5°	4.3	4.3	4.5	5.2	5.5	6.4	8.8	16.0	31.0	55.0	95.8
-15°	4.3	4.3	4.5	5.1	5.6	6.4	9.0	16.8	33.7	60.3	101.4
-17.5°	4.3	4.3	4.5	5.1	5.6	6.5	9.1	18.1	36.8	64.6	105.6
-20°	4.3	4.3	4.6	5.1	5.6	6.5	9.4	19.6	39.2	68.0	108.4



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 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-CV2-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.3	4.3	4.6	5.1	5.6	6.5	10.0	20.5	40.7	70.3	109.7
-25°	4.3	4.3	4.6	5.1	5.6	6.7	10.3	20.8	41.3	71.5	109.3
-27.5°	4.3	4.3	4.6	5.1	5.6	6.9	10.4	20.5	40.9	71.8	110.3
-30°	4.3	4.3	4.6	5.1	5.6	7.0	10.2	19.5	40.3	71.3	109.8
-32.5°	4.3	4.3	4.6	5.1	5.6	7.1	9.7	19.0	39.2	69.5	107.9
-35°	4.3	4.3	4.6	5.1	5.6	7.1	9.6	18.4	37.1	66.2	104.3
-37.5°	4.3	4.3	4.6	5.2	5.6	7.1	9.6	17.4	34.0	61.6	95.1
-40°	4.3	4.3	4.6	5.2	5.6	7.1	9.5	15.9	29.9	56.7	85.2
-42.5°	4.3	4.3	4.6	5.2	5.6	7.0	9.3	13.9	26.8	49.3	74.5
-45°	4.3	4.3	4.6	5.2	5.7	7.0	9.1	12.4	24.0	41.1	63.5
-47.5°	4.3	4.3	4.5	5.2	5.7	6.8	8.7	12.0	20.5	32.5	53.8
-50°	4.3	4.3	4.5	5.2	5.7	6.7	8.5	11.4	16.1	27.6	43.6
-52.5°	4.3	4.3	4.5	5.1	5.7	6.5	8.2	10.8	14.1	22.3	33.4
-55°	4.3	4.3	4.4	5.0	5.6	6.4	7.9	10.0	13.0	16.9	27.3
-57.5°	4.3	4.3	4.4	5.0	5.6	6.3	7.6	9.5	11.9	14.6	20.9
-60°	4.3	4.3	4.3	4.9	5.5	6.2	7.2	9.0	10.8	13.3	15.9
-62.5°	4.3	4.3	4.3	4.8	5.4	6.0	6.9	8.4	10.1	12.0	14.4
-65°	4.3	4.3	4.3	4.7	5.3	5.8	6.6	7.8	9.4	11.0	12.9
-67.5°	4.3	4.3	4.3	4.6	5.1	5.6	6.3	7.4	8.7	10.2	11.7
-70°	4.3	4.3	4.3	4.5	5.0	5.5	6.0	6.9	8.1	9.4	10.8
-72.5°	4.3	4.3	4.3	4.5	4.9	5.3	5.8	6.4	7.5	8.6	9.8
-75°	4.3	4.3	4.3	4.5	4.7	5.2	5.6	6.1	6.8	7.8	8.9
-77.5°	4.3	4.3	4.3	4.4	4.7	5.0	5.4	5.9	6.4	7.1	7.9
-80°	4.3	4.3	4.3	4.4	4.6	4.9	5.2	5.6	6.0	6.5	7.1
-82.5°	4.3	4.3	4.3	4.4	4.5	4.7	5.0	5.3	5.6	6.0	6.4
-85°	4.3	4.3	4.3	4.4	4.5	4.6	4.8	5.0	5.3	5.6	5.9
-87.5°	4.3	4.3	4.3	4.3	4.4	4.4	4.5	4.8	5.0	5.3	5.5
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.1	3.9	3.6	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°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
87.5°	3.4	3.4	3.4	3.4	3.2	3.0	2.8	2.6	2.6	2.6	2.6
85°	3.4	3.4	3.4	3.4	3.2	3.0	2.8	2.6	2.6	2.6	2.6
82.5°	3.7	3.6	3.5	3.4	3.2	3.0	2.8	2.7	2.7	2.7	2.7
80°	4.0	3.9	3.7	3.4	3.3	3.2	3.2	3.3	3.2	3.0	2.8
77.5°	4.1	3.9	3.7	3.5	3.4	3.5	3.5	3.4	3.3	3.1	2.9
75°	4.1	3.9	3.8	3.8	3.9	3.8	3.7	3.5	3.3	3.3	3.3
72.5°	4.2	4.1	4.1	4.3	4.2	4.0	3.7	3.5	3.7	4.2	4.5
70°	4.3	4.3	4.3	4.3	4.2	4.1	4.3	4.8	5.5	6.5	8.0
67.5°	4.3	4.3	4.3	4.3	4.3	4.6	5.2	8.4	12.1	13.8	14.4
65°	4.3	4.3	4.3	4.3	4.3	6.7	10.2	14.6	19.2	20.0	19.5
62.5°	4.3	4.3	4.3	4.9	6.9	10.1	14.2	19.0	24.4	24.5	21.4
60°	4.4	4.3	5.1	7.1	9.4	12.5	17.3	21.0	25.0	26.8	20.5
57.5°	4.4	5.0	6.7	9.0	11.5	13.9	16.7	20.4	22.3	22.5	16.6
55°	4.8	6.1	8.2	10.7	12.7	12.6	14.7	16.3	17.0	16.1	11.5
52.5°	5.7	7.2	9.6	12.0	12.8	11.8	11.4	12.5	12.1	10.4	8.5
50°	6.4	8.4	10.9	12.9	12.8	10.9	9.2	9.8	9.3	8.1	6.9
47.5°	7.3	9.5	12.5	13.8	12.2	11.0	9.5	9.0	8.5	8.7	7.8
45°	8.1	10.6	13.9	13.6	12.6	12.1	10.9	9.3	10.9	11.2	10.9
42.5°	8.7	11.5	13.9	13.6	14.3	14.0	12.9	13.7	14.5	15.2	15.5
40°	9.4	12.2	14.1	16.1	16.5	16.4	17.8	19.0	19.1	20.4	21.4
37.5°	9.8	12.9	15.8	20.6	19.0	20.6	23.4	25.8	27.2	26.1	29.2
35°	10.0	14.0	21.4	26.5	25.0	26.3	30.7	35.5	40.4	37.6	42.9
32.5°	10.8	15.6	28.6	33.1	38.0	38.2	38.9	52.4	62.7	67.3	69.9
30°	12.7	22.2	36.6	40.8	56.1	59.2	58.7	75.4	94.4	139.6	174.2
27.5°	15.4	30.2	44.0	56.8	78.4	83.9	92.0	111.2	169.4	255.4	352.7
25°	18.0	40.6	52.0	78.3	102.4	113.9	127.7	156.7	274.4	467.0	537.6
22.5°	23.6	52.3	65.1	102.9	129.0	144.7	169.7	240.4	403.0	699.1	718.1
20°	32.6	63.1	84.1	126.1	158.0	175.2	211.6	327.3	546.1	761.8	845.8
17.5°	42.0	75.1	105.0	149.6	189.4	213.9	258.7	410.0	657.5	842.9	941.9
15°	51.7	88.0	124.2	175.6	223.7	262.4	351.6	521.6	734.8	938.8	1081.1
12.5°	61.4	101.5	141.8	203.3	260.5	310.8	464.1	706.3	903.6	1067.6	1255.6
10°	70.9	115.3	158.0	231.8	298.9	358.7	587.8	905.1	1099.5	1244.3	1409.0
7.5°	94.0	136.5	175.9	260.4	337.9	405.6	717.1	1110.9	1277.6	1395.5	1519.5
5°	120.1	164.8	210.4	303.0	380.3	450.3	842.9	1315.5	1441.1	1526.6	1603.7
2.5°	145.9	192.1	244.1	345.3	422.6	491.6	949.0	1448.8	1556.4	1637.7	1699.2
0°	170.1	218.2	276.6	384.8	462.1	530.0	1040.2	1561.6	1658.7	1740.3	1814.1
-2.5°	183.6	239.3	300.9	399.9	466.6	532.4	969.2	1523.1	1668.1	1776.9	1887.1
-5°	194.2	258.8	323.5	412.6	469.8	532.6	886.1	1456.8	1679.2	1814.5	1949.3
-7.5°	201.8	276.2	344.0	423.0	473.6	534.7	881.6	1480.3	1746.2	1868.8	2001.0
-10°	205.1	282.7	348.2	425.1	478.2	537.0	870.6	1469.4	1810.8	1925.4	2044.1
-12.5°	198.7	279.5	347.1	424.4	482.1	536.8	826.0	1420.3	1875.3	1987.3	2065.2
-15°	191.3	275.0	342.9	420.8	485.3	534.0	743.3	1330.5	1886.9	1958.8	2035.6
-17.5°	183.3	269.1	335.6	414.2	488.1	528.7	612.5	1103.9	1692.4	1865.0	1987.0
-20°	175.3	261.9	324.8	404.6	488.5	511.0	553.7	885.9	1381.9	1730.0	1890.8



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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°	167.7	253.6	312.6	391.5	456.1	484.3	515.5	683.8	1057.9	1556.4	1720.8
-25°	164.1	240.8	301.4	364.3	423.0	456.4	474.4	520.4	791.5	1228.5	1532.3
-27.5°	162.9	229.7	284.6	338.0	394.5	426.2	440.2	474.2	621.2	912.5	1322.8
-30°	159.6	212.9	267.0	314.1	366.1	396.9	408.3	438.2	488.5	699.6	997.2
-32.5°	150.0	195.4	247.4	293.8	338.9	374.4	389.7	416.9	453.1	517.5	731.1
-35°	138.1	180.5	227.1	272.7	314.1	352.8	379.8	399.5	424.1	456.6	561.4
-37.5°	127.5	165.0	206.6	250.7	290.6	330.4	368.6	386.6	405.9	430.7	474.6
-40°	115.9	148.7	188.1	228.3	267.4	306.1	343.2	375.6	390.9	416.6	446.7
-42.5°	103.5	134.9	169.8	205.9	243.2	279.8	316.5	350.9	384.0	404.3	428.4
-45°	90.9	120.1	151.3	185.1	218.5	252.8	287.1	322.5	363.4	398.8	416.4
-47.5°	77.6	104.6	134.0	163.9	194.7	225.7	257.0	295.1	336.0	374.3	411.4
-50°	64.3	89.2	116.1	144.3	171.7	199.5	228.0	267.9	307.3	344.7	380.2
-52.5°	52.4	73.0	98.5	125.1	150.3	175.0	204.3	240.6	278.3	315.2	349.0
-55°	40.0	58.7	80.0	105.0	130.1	152.6	180.8	214.0	248.2	283.6	316.7
-57.5°	30.8	44.5	62.8	83.4	107.5	132.4	159.7	187.3	218.4	250.6	279.9
-60°	23.4	32.9	46.4	63.8	82.6	107.3	136.9	164.3	190.4	216.1	243.5
-62.5°	16.8	24.3	33.3	44.9	61.1	80.3	105.3	133.5	163.8	186.0	207.7
-65°	15.1	17.4	23.5	31.8	40.3	56.1	75.0	96.1	121.6	144.2	167.4
-67.5°	13.4	15.5	17.5	20.8	28.3	36.7	45.6	62.4	80.9	96.6	112.9
-70°	12.2	13.6	15.4	17.3	19.3	23.0	30.5	38.2	45.9	54.6	67.8
-72.5°	11.0	12.1	13.5	15.1	16.8	18.7	20.8	23.0	27.5	33.1	38.5
-75°	9.8	10.6	11.6	12.8	14.2	15.7	17.3	19.0	20.6	22.0	23.5
-77.5°	8.5	9.2	9.9	10.6	11.5	12.5	13.7	15.0	16.2	17.3	18.3
-80°	7.4	7.7	8.2	8.7	9.4	10.1	10.7	11.4	12.0	12.8	13.6
-82.5°	6.5	6.7	6.8	7.0	7.5	7.9	8.4	9.0	9.4	9.7	10.1
-85°	5.8	5.6	5.6	5.6	5.9	6.3	6.7	7.1	7.2	7.4	7.5
-87.5°	5.5	5.4	5.3	5.2	5.3	5.5	5.6	5.8	5.8	5.8	5.8
-90°	3.4	3.4	3.4	3.4	3.2	3.0	2.8	2.6	2.6	2.6	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°	5.2	5.4	5.6	5.8	6.0	6.4	6.8	7.3	7.7	10.9	14.1
87.5°	2.6	2.4	2.2	1.9	1.7	1.5	1.3	1.1	0.9	0.9	0.9
85°	2.6	2.4	2.2	1.9	1.7	1.5	1.3	1.1	0.9	0.9	0.9
82.5°	2.6	2.4	2.2	1.9	1.7	1.5	1.3	1.1	0.9	0.9	0.9
80°	2.6	2.4	2.2	2.0	1.7	1.6	1.6	1.6	1.6	1.5	1.3
77.5°	2.7	2.6	2.5	2.3	2.2	2.1	2.0	1.9	1.7	1.5	1.3
75°	3.3	3.3	3.3	3.1	2.7	2.4	2.2	2.0	1.7	1.7	1.7
72.5°	4.7	4.7	4.4	4.3	3.8	3.6	3.5	3.3	3.1	3.1	3.2
70°	8.8	9.0	8.6	7.8	6.6	5.8	5.5	4.9	4.3	4.2	4.5
67.5°	13.9	12.7	11.7	10.6	9.0	7.7	7.0	6.4	5.8	5.6	5.8
65°	17.5	13.8	11.9	10.4	9.3	8.3	7.5	6.7	5.9	5.4	5.3
62.5°	17.5	12.5	10.1	8.9	8.1	7.5	6.4	5.4	4.5	4.0	4.0
60°	15.0	10.3	7.6	6.6	5.8	5.2	4.7	4.1	3.7	3.4	3.5
57.5°	11.5	7.5	5.2	5.1	4.8	4.5	4.2	4.1	3.8	3.4	3.6
55°	8.0	6.2	5.2	5.3	5.4	5.3	5.0	4.6	4.2	4.0	4.1
52.5°	6.4	6.2	6.5	6.6	6.1	5.6	5.2	5.1	5.2	5.3	5.5
50°	6.8	7.1	7.2	6.8	6.5	6.2	6.0	6.2	6.6	6.9	7.2
47.5°	7.8	8.2	8.4	7.6	7.7	8.2	7.9	8.0	9.6	10.8	11.7
45°	10.3	11.6	11.8	11.9	11.8	13.0	13.6	14.3	17.5	18.8	18.7
42.5°	15.9	17.8	19.0	20.2	19.3	22.8	27.7	31.1	30.3	29.1	29.5
40°	23.9	27.5	32.4	35.1	38.1	42.0	43.4	37.6	36.7	41.4	41.8
37.5°	36.4	45.9	56.4	64.4	65.8	64.0	62.0	61.1	62.4	65.5	70.2
35°	59.9	82.1	91.8	96.9	100.0	90.6	87.0	90.5	87.5	96.1	99.1
32.5°	106.1	134.7	143.1	147.0	154.7	145.2	124.1	149.0	139.6	138.2	147.8
30°	168.1	208.2	242.7	245.2	239.7	238.2	250.3	253.5	242.2	242.1	279.9
27.5°	322.0	331.2	392.1	419.7	350.7	356.0	388.9	371.4	412.2	451.6	482.8
25°	510.0	517.5	624.1	607.8	534.8	555.5	574.8	571.0	618.3	665.7	719.7
22.5°	682.7	713.6	801.2	778.6	746.0	754.9	772.6	807.7	871.4	967.7	1218.8
20°	820.5	840.6	883.1	902.5	904.3	921.9	978.4	1075.0	1273.2	1923.5	2708.5
17.5°	953.3	922.2	973.4	1006.8	1043.0	1107.7	1238.8	1634.4	2590.4	4561.3	6492.8
15°	1146.3	1127.1	1097.0	1142.8	1243.3	1375.4	1681.7	3128.3	6375.9	10071.6	13913.9
12.5°	1356.4	1331.1	1289.6	1328.3	1480.8	1716.2	3155.7	6821.8	12013.2	18638.6	31544.2
10°	1524.0	1512.6	1486.7	1568.7	1767.8	2477.2	5027.0	10795.5	18514.8	33884.0	52671.3
7.5°	1626.5	1621.3	1643.4	1777.6	2048.8	3617.8	8217.8	16250.0	29814.6	51151.3	82689.8
5°	1738.6	1730.5	1766.1	1928.9	2249.7	4349.1	10710.2	21149.9	41350.9	70870.8	116671.7
2.5°	1858.8	1840.3	1876.9	2062.4	2407.1	4511.3	11269.7	22617.4	48199.1	86071.7	147435.7
0°	1979.9	1942.1	1961.9	2147.4	2524.5	5043.0	12429.2	24733.0	53040.2	94866.2	160130.8
-2.5°	1989.8	1925.7	1945.3	2116.9	2478.0	4342.0	10791.3	22783.7	50410.7	88267.7	146642.8
-5°	2006.6	1923.0	1917.4	2067.8	2411.6	3961.3	9155.2	20837.4	44538.3	77674.6	128259.4
-7.5°	2037.7	1938.9	1891.4	2002.6	2306.3	3443.6	7469.2	17346.4	36031.3	63352.0	100008.5
-10°	2088.7	1982.6	1904.9	1953.7	2173.4	2808.5	4942.1	12607.8	27274.0	47763.9	72610.8
-12.5°	2151.7	2102.6	1986.0	1918.5	2039.2	2383.3	3884.5	9419.7	19162.4	30218.2	48344.0
-15°	2180.9	2199.4	2115.1	1980.8	1988.8	2201.7	2716.8	5157.6	12028.6	20061.5	29003.1
-17.5°	2141.2	2228.8	2131.4	1977.3	1914.9	2041.1	2282.0	3176.8	5558.4	10718.0	15962.2
-20°	2025.2	2053.9	2034.0	1941.4	1875.9	1882.8	2002.1	2234.2	2698.8	4387.8	6244.0



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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°	1810.4	1828.8	1823.6	1892.1	1818.6	1785.6	1811.5	1901.5	2045.8	2264.9	2879.1
-25°	1627.3	1619.5	1661.8	1776.3	1794.4	1714.6	1693.7	1700.2	1782.2	1879.5	2014.1
-27.5°	1452.5	1505.4	1598.5	1714.7	1765.2	1711.5	1644.0	1599.8	1639.3	1670.0	1730.4
-30°	1306.4	1443.0	1540.5	1646.4	1722.4	1713.9	1648.1	1626.5	1607.8	1586.1	1601.5
-32.5°	1073.6	1367.6	1468.3	1554.8	1646.8	1684.1	1683.6	1674.5	1682.9	1665.2	1625.8
-35°	834.4	1151.2	1412.6	1460.7	1520.2	1608.1	1675.5	1686.2	1696.3	1695.9	1686.4
-37.5°	598.6	893.1	1158.0	1352.7	1422.7	1487.1	1612.7	1679.9	1701.8	1736.5	1749.3
-40°	490.9	579.2	844.0	1082.3	1242.9	1438.1	1568.6	1690.1	1815.0	1888.1	1929.4
-42.5°	458.6	495.3	534.2	717.4	946.5	1160.7	1365.4	1596.7	1774.2	1912.0	2049.5
-45°	435.3	458.9	484.7	520.8	556.8	738.3	946.8	1156.1	1352.5	1550.5	1740.6
-47.5°	426.1	434.8	452.7	473.3	497.3	529.1	559.2	605.7	767.9	928.4	1100.6
-50°	411.3	432.9	440.7	448.2	467.6	486.2	500.6	520.3	539.9	552.2	568.4
-52.5°	380.1	408.0	431.8	453.7	466.2	477.1	486.7	502.8	517.9	531.0	540.2
-55°	347.8	376.6	404.1	431.0	456.2	480.3	501.2	512.9	524.5	536.3	541.2
-57.5°	309.9	340.3	370.0	398.0	425.4	452.2	476.0	497.4	518.0	537.0	548.9
-60°	270.2	296.1	326.1	357.2	385.8	412.2	438.5	463.3	486.2	505.7	518.0
-62.5°	231.5	256.2	280.9	308.9	340.0	369.9	393.6	417.7	441.9	463.2	478.6
-65°	189.6	210.2	230.0	251.1	273.4	297.4	322.4	347.1	371.1	391.4	406.5
-67.5°	132.3	152.1	170.4	188.5	205.2	222.1	240.1	258.4	276.6	292.5	306.1
-70°	80.7	92.7	103.3	114.9	128.7	142.8	157.0	170.1	181.9	191.8	199.7
-72.5°	43.7	48.3	53.4	62.0	69.8	78.3	87.0	95.0	102.4	109.1	115.2
-75°	24.9	27.0	30.7	33.9	36.9	40.5	44.4	48.1	51.7	55.2	58.4
-77.5°	19.4	20.5	21.5	22.4	23.3	24.6	26.1	27.6	29.1	31.7	34.5
-80°	14.5	15.2	15.8	16.5	17.2	18.1	18.9	19.7	20.5	21.6	22.8
-82.5°	10.5	10.9	11.2	11.4	11.7	12.3	12.9	13.5	14.0	15.3	16.5
-85°	7.7	7.8	7.9	8.0	8.1	8.4	8.7	9.0	9.2	10.3	11.5
-87.5°	5.9	5.9	5.9	6.0	6.0	6.2	6.5	6.7	6.9	8.0	9.1
-90°	2.6	2.4	2.2	1.9	1.7	1.5	1.3	1.1	0.9	0.7	0.5



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	17.4	20.6	23.6	26.6	23.6	20.6	17.4	14.1	10.9	7.7	7.3
87.5°	0.9	0.9	0.4	0.0	0.4	0.9	0.9	0.9	0.9	0.9	1.1
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
80°	1.1	0.9	0.9	0.9	0.9	0.9	1.1	1.3	1.5	1.6	1.6
77.5°	1.1	0.9	0.9	0.9	0.9	0.9	1.1	1.3	1.5	1.7	1.9
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.0
72.5°	3.3	3.4	3.4	3.4	3.4	3.4	3.3	3.2	3.1	3.1	3.3
70°	4.8	5.1	5.6	6.0	5.6	5.1	4.8	4.5	4.2	4.3	4.9
67.5°	5.9	6.0	5.2	4.3	5.2	6.0	5.9	5.8	5.6	5.8	6.4
65°	5.3	5.2	4.8	4.3	4.8	5.2	5.3	5.3	5.4	5.9	6.7
62.5°	4.1	4.3	4.3	4.3	4.3	4.3	4.1	4.0	4.0	4.5	5.4
60°	3.5	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.4	3.7	4.1
57.5°	3.9	4.2	4.3	4.3	4.3	4.2	3.9	3.6	3.4	3.8	4.1
55°	4.2	4.3	4.6	5.2	4.6	4.3	4.2	4.1	4.0	4.2	4.6
52.5°	5.7	5.9	6.0	6.0	6.0	5.9	5.7	5.5	5.3	5.2	5.1
50°	7.4	7.6	7.7	7.7	7.7	7.6	7.4	7.2	6.9	6.6	6.2
47.5°	12.3	12.6	13.0	13.7	13.0	12.6	12.3	11.7	10.8	9.6	8.0
45°	19.6	20.1	20.9	22.3	20.9	20.1	19.6	18.7	18.8	17.5	14.3
42.5°	31.0	31.9	32.8	34.4	32.8	31.9	31.0	29.5	29.1	30.3	31.1
40°	42.8	43.3	43.9	45.5	43.9	43.3	42.8	41.8	41.4	36.7	37.6
37.5°	72.3	69.2	66.0	73.0	66.0	69.2	72.3	70.2	65.5	62.4	61.1
35°	98.6	100.4	103.3	108.2	103.3	100.4	98.6	99.1	96.1	87.5	90.5
32.5°	149.6	157.7	161.4	166.6	161.4	157.7	149.6	147.8	138.2	139.6	149.0
30°	297.6	297.1	273.1	277.4	273.1	297.1	297.6	279.9	242.1	242.2	253.5
27.5°	492.7	498.7	496.1	508.5	496.1	498.7	492.7	482.8	451.6	412.2	371.4
25°	767.0	792.6	787.6	812.6	787.6	792.6	767.0	719.7	665.7	618.3	571.0
22.5°	1527.4	1645.6	1643.7	1801.2	1643.7	1645.6	1527.4	1218.8	967.7	871.4	807.7
20°	4079.5	4886.5	4554.0	4615.2	4554.0	4886.5	4079.5	2708.5	1923.5	1273.2	1075.0
17.5°	9407.5	12142.1	13329.7	14813.7	13329.7	12142.1	9407.5	6492.8	4561.3	2590.4	1634.4
15°	21475.6	28761.3	32405.7	28686.0	32405.7	28761.3	21475.6	13913.9	10071.6	6375.9	3128.3
12.5°	44963.5	57755.8	66598.4	59812.3	66598.4	57755.8	44963.5	31544.2	18638.6	12013.2	6821.8
10°	77678.3	101241.5	120715.4	114297.3	120715.4	101241.5	77678.3	52671.3	33884.0	18514.8	10795.5
7.5°	119417.4	157483.0	181241.4	181065.5	181241.4	157483.0	119417.4	82689.8	51151.3	29814.6	16250.0
5°	171805.3	220507.6	250759.4	254407.3	250759.4	220507.6	171805.3	116671.7	70870.8	41350.9	21149.9
2.5°	210594.8	263397.7	304704.7	319603.6	304704.7	263397.7	210594.8	147435.7	86071.7	48199.1	22617.4
0°	226432.1	280868.5	325023.6	349643.3	325023.6	280868.5	226432.1	160130.8	94866.2	53040.2	24733.0
-2.5°	213988.1	264265.8	300684.3	315937.5	300684.3	264265.8	213988.1	146642.8	88267.7	50410.7	22783.7
-5°	186840.4	234190.6	262284.1	272260.9	262284.1	234190.6	186840.4	128259.4	77674.6	44538.3	20837.4
-7.5°	146213.0	185849.5	210101.4	218860.7	210101.4	185849.5	146213.0	100008.5	63352.0	36031.3	17346.4
-10°	101252.9	130715.6	151770.9	158302.0	151770.9	130715.6	101252.9	72610.8	47763.9	27274.0	12607.8
-12.5°	65242.7	82723.2	94388.2	98637.0	94388.2	82723.2	65242.7	48344.0	30218.2	19162.4	9419.7
-15°	39690.7	49423.8	55073.3	56976.8	55073.3	49423.8	39690.7	29003.1	20061.5	12028.6	5157.6
-17.5°	21869.4	26566.8	28293.7	29508.9	28293.7	26566.8	21869.4	15962.2	10718.0	5558.4	3176.8
-20°	9797.5	11836.8	12837.5	13350.9	12837.5	11836.8	9797.5	6244.0	4387.8	2698.8	2234.2



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	3777.7	4373.2	4641.3	4861.7	4641.3	4373.2	3777.7	2879.1	2264.9	2045.8	1901.5
-25°	2131.2	2213.8	2251.5	2276.3	2251.5	2213.8	2131.2	2014.1	1879.5	1782.2	1700.2
-27.5°	1773.5	1821.3	1854.0	1848.5	1854.0	1821.3	1773.5	1730.4	1670.0	1639.3	1599.8
-30°	1602.6	1617.3	1629.7	1620.0	1629.7	1617.3	1602.6	1601.5	1586.1	1607.8	1626.5
-32.5°	1598.0	1582.8	1574.2	1571.9	1574.2	1582.8	1598.0	1625.8	1665.2	1682.9	1674.5
-35°	1675.7	1668.8	1664.5	1667.3	1664.5	1668.8	1675.7	1686.4	1695.9	1696.3	1686.2
-37.5°	1750.9	1740.8	1725.6	1713.6	1725.6	1740.8	1750.9	1749.3	1736.5	1701.8	1679.9
-40°	1937.4	1973.5	2019.3	2044.3	2019.3	1973.5	1937.4	1929.4	1888.1	1815.0	1690.1
-42.5°	2090.3	2116.6	2128.5	2127.7	2128.5	2116.6	2090.3	2049.5	1912.0	1774.2	1596.7
-45°	1884.7	1990.0	2047.0	2058.1	2047.0	1990.0	1884.7	1740.6	1550.5	1352.5	1156.1
-47.5°	1286.2	1457.4	1557.8	1571.0	1557.8	1457.4	1286.2	1100.6	928.4	767.9	605.7
-50°	590.7	613.6	622.0	615.9	622.0	613.6	590.7	568.4	552.2	539.9	520.3
-52.5°	548.8	557.7	562.3	563.5	562.3	557.7	548.8	540.2	531.0	517.9	502.8
-55°	545.7	550.6	553.8	556.6	553.8	550.6	545.7	541.2	536.3	524.5	512.9
-57.5°	560.0	570.3	575.2	577.2	575.2	570.3	560.0	548.9	537.0	518.0	497.4
-60°	529.1	539.2	542.8	543.7	542.8	539.2	529.1	518.0	505.7	486.2	463.3
-62.5°	493.1	506.4	511.4	512.8	511.4	506.4	493.1	478.6	463.2	441.9	417.7
-65°	419.8	431.1	431.9	428.6	431.9	431.1	419.8	406.5	391.4	371.1	347.1
-67.5°	318.3	328.9	329.5	326.4	329.5	328.9	318.3	306.1	292.5	276.6	258.4
-70°	206.1	211.0	212.0	211.3	212.0	211.0	206.1	199.7	191.8	181.9	170.1
-72.5°	120.6	125.2	124.3	122.0	124.3	125.2	120.6	115.2	109.1	102.4	95.0
-75°	61.2	63.7	64.7	65.3	64.7	63.7	61.2	58.4	55.2	51.7	48.1
-77.5°	37.3	40.0	40.7	41.2	40.7	40.0	37.3	34.5	31.7	29.1	27.6
-80°	23.8	24.8	24.9	24.9	24.9	24.8	23.8	22.8	21.6	20.5	19.7
-82.5°	17.7	18.8	19.3	19.8	19.3	18.8	17.7	16.5	15.3	14.0	13.5
-85°	12.6	13.7	14.1	14.6	14.1	13.7	12.6	11.5	10.3	9.2	9.0
-87.5°	10.2	11.2	11.6	12.0	11.6	11.2	10.2	9.1	8.0	6.9	6.7
-90°	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.7	0.9	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°	6.8	6.4	6.0	5.8	5.6	5.4	5.2	5.2	5.2	5.2	5.2
87.5°	1.3	1.5	1.7	1.9	2.2	2.4	2.6	2.6	2.6	2.6	2.6
85°	1.3	1.5	1.7	1.9	2.2	2.4	2.6	2.6	2.6	2.6	2.6
82.5°	1.3	1.5	1.7	1.9	2.2	2.4	2.6	2.7	2.7	2.7	2.7
80°	1.6	1.6	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.3
77.5°	2.0	2.1	2.2	2.3	2.5	2.6	2.7	2.9	3.1	3.3	3.4
75°	2.2	2.4	2.7	3.1	3.3	3.3	3.3	3.3	3.3	3.3	3.5
72.5°	3.5	3.6	3.8	4.3	4.4	4.7	4.7	4.5	4.2	3.7	3.5
70°	5.5	5.8	6.6	7.8	8.6	9.0	8.8	8.0	6.5	5.5	4.8
67.5°	7.0	7.7	9.0	10.6	11.7	12.7	13.9	14.4	13.8	12.1	8.4
65°	7.5	8.3	9.3	10.4	11.9	13.8	17.5	19.5	20.0	19.2	14.6
62.5°	6.4	7.5	8.1	8.9	10.1	12.5	17.5	21.4	24.5	24.4	19.0
60°	4.7	5.2	5.8	6.6	7.6	10.3	15.0	20.5	26.8	25.0	21.0
57.5°	4.2	4.5	4.8	5.1	5.2	7.5	11.5	16.6	22.5	22.3	20.4
55°	5.0	5.3	5.4	5.3	5.2	6.2	8.0	11.5	16.1	17.0	16.3
52.5°	5.2	5.6	6.1	6.6	6.5	6.2	6.4	8.5	10.4	12.1	12.5
50°	6.0	6.2	6.5	6.8	7.2	7.1	6.8	6.9	8.1	9.3	9.8
47.5°	7.9	8.2	7.7	7.6	8.4	8.2	7.8	7.8	8.7	8.5	9.0
45°	13.6	13.0	11.8	11.9	11.8	11.6	10.3	10.9	11.2	10.9	9.3
42.5°	27.7	22.8	19.3	20.2	19.0	17.8	15.9	15.5	15.2	14.5	13.7
40°	43.4	42.0	38.1	35.1	32.4	27.5	23.9	21.4	20.4	19.1	19.0
37.5°	62.0	64.0	65.8	64.4	56.4	45.9	36.4	29.2	26.1	27.2	25.8
35°	87.0	90.6	100.0	96.9	91.8	82.1	59.9	42.9	37.6	40.4	35.5
32.5°	124.1	145.2	154.7	147.0	143.1	134.7	106.1	69.9	67.3	62.7	52.4
30°	250.3	238.2	239.7	245.2	242.7	208.2	168.1	174.2	139.6	94.4	75.4
27.5°	388.9	356.0	350.7	419.7	392.1	331.2	322.0	352.7	255.4	169.4	111.2
25°	574.8	555.5	534.8	607.8	624.1	517.5	510.0	537.6	467.0	274.4	156.7
22.5°	772.6	754.9	746.0	778.6	801.2	713.6	682.7	718.1	699.1	403.0	240.4
20°	978.4	921.9	904.3	902.5	883.1	840.6	820.5	845.8	761.8	546.1	327.3
17.5°	1238.8	1107.7	1043.0	1006.8	973.4	922.2	953.3	941.9	842.9	657.5	410.0
15°	1681.7	1375.4	1243.3	1142.8	1097.0	1127.1	1146.3	1081.1	938.8	734.8	521.6
12.5°	3155.7	1716.2	1480.8	1328.3	1289.6	1331.1	1356.4	1255.6	1067.6	903.6	706.3
10°	5027.0	2477.2	1767.8	1568.7	1486.7	1512.6	1524.0	1409.0	1244.3	1099.5	905.1
7.5°	8217.8	3617.8	2048.8	1777.6	1643.4	1621.3	1626.5	1519.5	1395.5	1277.6	1110.9
5°	10710.2	4349.1	2249.7	1928.9	1766.1	1730.5	1738.6	1603.7	1526.6	1441.1	1315.5
2.5°	11269.7	4511.3	2407.1	2062.4	1876.9	1840.3	1858.8	1699.2	1637.7	1556.4	1448.8
0°	12429.2	5043.0	2524.5	2147.4	1961.9	1942.1	1979.9	1814.1	1740.3	1658.7	1561.6
-2.5°	10791.3	4342.0	2478.0	2116.9	1945.3	1925.7	1989.8	1887.1	1776.9	1668.1	1523.1
-5°	9155.2	3961.3	2411.6	2067.8	1917.4	1923.0	2006.6	1949.3	1814.5	1679.2	1456.8
-7.5°	7469.2	3443.6	2306.3	2002.6	1891.4	1938.9	2037.7	2001.0	1868.8	1746.2	1480.3
-10°	4942.1	2808.5	2173.4	1953.7	1904.9	1982.6	2088.7	2044.1	1925.4	1810.8	1469.4
-12.5°	3884.5	2383.3	2039.2	1918.5	1986.0	2102.6	2151.7	2065.2	1987.3	1875.3	1420.3
-15°	2716.8	2201.7	1988.8	1980.8	2115.1	2199.4	2180.9	2035.6	1958.8	1886.9	1330.5
-17.5°	2282.0	2041.1	1914.9	1977.3	2131.4	2228.8	2141.2	1987.0	1865.0	1692.4	1103.9
-20°	2002.1	1882.8	1875.9	1941.4	2034.0	2053.9	2025.2	1890.8	1730.0	1381.9	885.9





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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°	1811.5	1785.6	1818.6	1892.1	1823.6	1828.8	1810.4	1720.8	1556.4	1057.9	683.8
-25°	1693.7	1714.6	1794.4	1776.3	1661.8	1619.5	1627.3	1532.3	1228.5	791.5	520.4
-27.5°	1644.0	1711.5	1765.2	1714.7	1598.5	1505.4	1452.5	1322.8	912.5	621.2	474.2
-30°	1648.1	1713.9	1722.4	1646.4	1540.5	1443.0	1306.4	997.2	699.6	488.5	438.2
-32.5°	1683.6	1684.1	1646.8	1554.8	1468.3	1367.6	1073.6	731.1	517.5	453.1	416.9
-35°	1675.5	1608.1	1520.2	1460.7	1412.6	1151.2	834.4	561.4	456.6	424.1	399.5
-37.5°	1612.7	1487.1	1422.7	1352.7	1158.0	893.1	598.6	474.6	430.7	405.9	386.6
-40°	1568.6	1438.1	1242.9	1082.3	844.0	579.2	490.9	446.7	416.6	390.9	375.6
-42.5°	1365.4	1160.7	946.5	717.4	534.2	495.3	458.6	428.4	404.3	384.0	350.9
-45°	946.8	738.3	556.8	520.8	484.7	458.9	435.3	416.4	398.8	363.4	322.5
-47.5°	559.2	529.1	497.3	473.3	452.7	434.8	426.1	411.4	374.3	336.0	295.1
-50°	500.6	486.2	467.6	448.2	440.7	432.9	411.3	380.2	344.7	307.3	267.9
-52.5°	486.7	477.1	466.2	453.7	431.8	408.0	380.1	349.0	315.2	278.3	240.6
-55°	501.2	480.3	456.2	431.0	404.1	376.6	347.8	316.7	283.6	248.2	214.0
-57.5°	476.0	452.2	425.4	398.0	370.0	340.3	309.9	279.9	250.6	218.4	187.3
-60°	438.5	412.2	385.8	357.2	326.1	296.1	270.2	243.5	216.1	190.4	164.3
-62.5°	393.6	369.9	340.0	308.9	280.9	256.2	231.5	207.7	186.0	163.8	133.5
-65°	322.4	297.4	273.4	251.1	230.0	210.2	189.6	167.4	144.2	121.6	96.1
-67.5°	240.1	222.1	205.2	188.5	170.4	152.1	132.3	112.9	96.6	80.9	62.4
-70°	157.0	142.8	128.7	114.9	103.3	92.7	80.7	67.8	54.6	45.9	38.2
-72.5°	87.0	78.3	69.8	62.0	53.4	48.3	43.7	38.5	33.1	27.5	23.0
-75°	44.4	40.5	36.9	33.9	30.7	27.0	24.9	23.5	22.0	20.6	19.0
-77.5°	26.1	24.6	23.3	22.4	21.5	20.5	19.4	18.3	17.3	16.2	15.0
-80°	18.9	18.1	17.2	16.5	15.8	15.2	14.5	13.6	12.8	12.0	11.4
-82.5°	12.9	12.3	11.7	11.4	11.2	10.9	10.5	10.1	9.7	9.4	9.0
-85°	8.7	8.4	8.1	8.0	7.9	7.8	7.7	7.5	7.4	7.2	7.1
-87.5°	6.5	6.2	6.0	6.0	5.9	5.9	5.9	5.8	5.8	5.8	5.8
-90°	1.3	1.5	1.7	1.9	2.2	2.4	2.6	2.6	2.6	2.6	2.6





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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°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.0	4.8	4.5
87.5°	2.8	3.0	3.2	3.4	3.4	3.4	3.4	3.4	3.6	3.9	4.1
85°	2.8	3.0	3.2	3.4	3.4	3.4	3.4	3.4	3.6	3.9	4.1
82.5°	2.8	3.0	3.2	3.4	3.5	3.6	3.7	3.7	3.7	3.9	4.1
80°	3.2	3.2	3.3	3.4	3.7	3.9	4.0	4.0	4.0	4.0	4.1
77.5°	3.5	3.5	3.4	3.5	3.7	3.9	4.1	4.3	4.2	4.2	4.2
75°	3.7	3.8	3.9	3.8	3.8	3.9	4.1	4.3	4.3	4.3	4.3
72.5°	3.7	4.0	4.2	4.3	4.1	4.1	4.2	4.3	4.3	4.3	4.3
70°	4.3	4.1	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
67.5°	5.2	4.6	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.3	4.3
65°	10.2	6.7	4.3	4.3	4.3	4.3	4.3	4.5	4.6	4.5	4.3
62.5°	14.2	10.1	6.9	4.9	4.3	4.3	4.3	4.5	4.7	4.7	4.5
60°	17.3	12.5	9.4	7.1	5.1	4.3	4.4	4.6	4.8	4.9	4.7
57.5°	16.7	13.9	11.5	9.0	6.7	5.0	4.4	4.6	4.8	5.0	5.0
55°	14.7	12.6	12.7	10.7	8.2	6.1	4.8	4.7	4.9	5.1	5.2
52.5°	11.4	11.8	12.8	12.0	9.6	7.2	5.7	4.7	4.9	5.1	5.2
50°	9.2	10.9	12.8	12.9	10.9	8.4	6.4	5.3	5.0	5.1	5.2
47.5°	9.5	11.0	12.2	13.8	12.5	9.5	7.3	5.8	5.0	5.2	5.2
45°	10.9	12.1	12.6	13.6	13.9	10.6	8.1	6.2	5.4	5.2	5.2
42.5°	12.9	14.0	14.3	13.6	13.9	11.5	8.7	6.8	5.7	5.3	5.2
40°	17.8	16.4	16.5	16.1	14.1	12.2	9.4	7.3	5.9	5.4	5.3
37.5°	23.4	20.6	19.0	20.6	15.8	12.9	9.8	7.6	6.2	5.6	5.4
35°	30.7	26.3	25.0	26.5	21.4	14.0	10.0	7.9	6.8	5.9	5.5
32.5°	38.9	38.2	38.0	33.1	28.6	15.6	10.8	8.8	7.6	6.1	5.6
30°	58.7	59.2	56.1	40.8	36.6	22.2	12.7	10.0	8.4	6.3	5.7
27.5°	92.0	83.9	78.4	56.8	44.0	30.2	15.4	11.3	9.3	6.7	5.9
25°	127.7	113.9	102.4	78.3	52.0	40.6	18.0	12.8	10.3	7.4	6.1
22.5°	169.7	144.7	129.0	102.9	65.1	52.3	23.6	15.0	11.5	8.1	6.2
20°	211.6	175.2	158.0	126.1	84.1	63.1	32.6	17.2	12.7	8.9	6.4
17.5°	258.7	213.9	189.4	149.6	105.0	75.1	42.0	19.3	14.0	9.7	6.6
15°	351.6	262.4	223.7	175.6	124.2	88.0	51.7	21.2	15.3	10.4	6.8
12.5°	464.1	310.8	260.5	203.3	141.8	101.5	61.4	23.1	16.6	11.2	7.1
10°	587.8	358.7	298.9	231.8	158.0	115.3	70.9	25.8	18.1	12.0	7.4
7.5°	717.1	405.6	337.9	260.4	175.9	136.5	94.0	30.7	19.7	12.8	7.7
5°	842.9	450.3	380.3	303.0	210.4	164.8	120.1	35.7	21.3	13.5	8.0
2.5°	949.0	491.6	422.6	345.3	244.1	192.1	145.9	40.7	22.8	14.1	8.3
0°	1040.2	530.0	462.1	384.8	276.6	218.2	170.1	45.5	24.1	14.6	8.6
-2.5°	969.2	532.4	466.6	399.9	300.9	239.3	183.6	57.7	31.3	18.4	10.3
-5°	886.1	532.6	469.8	412.6	323.5	258.8	194.2	69.1	38.1	22.1	12.0
-7.5°	881.6	534.7	473.6	423.0	344.0	276.2	201.8	79.5	44.4	25.5	13.5
-10°	870.6	537.0	478.2	425.1	348.2	282.7	205.1	88.7	50.1	28.4	14.9
-12.5°	826.0	536.8	482.1	424.4	347.1	279.5	198.7	95.8	55.0	31.0	16.0
-15°	743.3	534.0	485.3	420.8	342.9	275.0	191.3	101.4	60.3	33.7	16.8
-17.5°	612.5	528.7	488.1	414.2	335.6	269.1	183.3	105.6	64.6	36.8	18.1
-20°	553.7	511.0	488.5	404.6	324.8	261.9	175.3	108.4	68.0	39.2	19.6



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	515.5	484.3	456.1	391.5	312.6	253.6	167.7	109.7	70.3	40.7	20.5
-25°	474.4	456.4	423.0	364.3	301.4	240.8	164.1	109.3	71.5	41.3	20.8
-27.5°	440.2	426.2	394.5	338.0	284.6	229.7	162.9	110.3	71.8	40.9	20.5
-30°	408.3	396.9	366.1	314.1	267.0	212.9	159.6	109.8	71.3	40.3	19.5
-32.5°	389.7	374.4	338.9	293.8	247.4	195.4	150.0	107.9	69.5	39.2	19.0
-35°	379.8	352.8	314.1	272.7	227.1	180.5	138.1	104.3	66.2	37.1	18.4
-37.5°	368.6	330.4	290.6	250.7	206.6	165.0	127.5	95.1	61.6	34.0	17.4
-40°	343.2	306.1	267.4	228.3	188.1	148.7	115.9	85.2	56.7	29.9	15.9
-42.5°	316.5	279.8	243.2	205.9	169.8	134.9	103.5	74.5	49.3	26.8	13.9
-45°	287.1	252.8	218.5	185.1	151.3	120.1	90.9	63.5	41.1	24.0	12.4
-47.5°	257.0	225.7	194.7	163.9	134.0	104.6	77.6	53.8	32.5	20.5	12.0
-50°	228.0	199.5	171.7	144.3	116.1	89.2	64.3	43.6	27.6	16.1	11.4
-52.5°	204.3	175.0	150.3	125.1	98.5	73.0	52.4	33.4	22.3	14.1	10.8
-55°	180.8	152.6	130.1	105.0	80.0	58.7	40.0	27.3	16.9	13.0	10.0
-57.5°	159.7	132.4	107.5	83.4	62.8	44.5	30.8	20.9	14.6	11.9	9.5
-60°	136.9	107.3	82.6	63.8	46.4	32.9	23.4	15.9	13.3	10.8	9.0
-62.5°	105.3	80.3	61.1	44.9	33.3	24.3	16.8	14.4	12.0	10.1	8.4
-65°	75.0	56.1	40.3	31.8	23.5	17.4	15.1	12.9	11.0	9.4	7.8
-67.5°	45.6	36.7	28.3	20.8	17.5	15.5	13.4	11.7	10.2	8.7	7.4
-70°	30.5	23.0	19.3	17.3	15.4	13.6	12.2	10.8	9.4	8.1	6.9
-72.5°	20.8	18.7	16.8	15.1	13.5	12.1	11.0	9.8	8.6	7.5	6.4
-75°	17.3	15.7	14.2	12.8	11.6	10.6	9.8	8.9	7.8	6.8	6.1
-77.5°	13.7	12.5	11.5	10.6	9.9	9.2	8.5	7.9	7.1	6.4	5.9
-80°	10.7	10.1	9.4	8.7	8.2	7.7	7.4	7.1	6.5	6.0	5.6
-82.5°	8.4	7.9	7.5	7.0	6.8	6.7	6.5	6.4	6.0	5.6	5.3
-85°	6.7	6.3	5.9	5.6	5.6	5.6	5.8	5.9	5.6	5.3	5.0
-87.5°	5.6	5.5	5.3	5.2	5.3	5.4	5.5	5.5	5.3	5.0	4.8
-90°	2.8	3.0	3.2	3.4	3.4	3.4	3.4	3.4	3.6	3.9	4.1



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
85°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
67.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
65°	4.4	4.3	4.3	4.3	4.3	4.3	4.3
62.5°	4.4	4.4	4.3	4.3	4.3	4.3	4.3
60°	4.5	4.5	4.3	4.3	4.3	4.3	4.3
57.5°	4.6	4.6	4.4	4.3	4.3	4.3	4.3
55°	4.8	4.7	4.5	4.3	4.3	4.3	4.3
52.5°	5.0	4.8	4.6	4.3	4.3	4.3	4.3
50°	5.1	4.9	4.7	4.3	4.3	4.3	4.3
47.5°	5.2	5.0	4.8	4.3	4.3	4.3	4.3
45°	5.2	5.0	4.9	4.4	4.3	4.3	4.3
42.5°	5.2	5.1	5.0	4.5	4.3	4.3	4.3
40°	5.2	5.1	5.1	4.6	4.3	4.3	4.3
37.5°	5.2	5.2	5.1	4.6	4.3	4.3	4.3
35°	5.2	5.2	5.1	4.7	4.3	4.3	4.3
32.5°	5.2	5.2	5.2	4.8	4.3	4.3	4.3
30°	5.3	5.2	5.2	4.8	4.3	4.3	4.3
27.5°	5.4	5.2	5.2	4.9	4.3	4.3	4.3
25°	5.5	5.2	5.2	4.9	4.3	4.3	4.3
22.5°	5.6	5.2	5.2	5.0	4.3	4.3	4.3
20°	5.7	5.3	5.2	5.0	4.3	4.3	4.3
17.5°	5.8	5.3	5.2	5.1	4.3	4.3	4.3
15°	6.0	5.4	5.2	5.1	4.3	4.3	4.3
12.5°	6.2	5.5	5.2	5.1	4.3	4.3	4.3
10°	6.3	5.6	5.2	5.2	4.3	4.3	4.3
7.5°	6.5	5.7	5.2	5.2	4.3	4.3	4.3
5°	6.6	5.8	5.2	5.2	4.3	4.3	4.3
2.5°	6.8	5.9	5.2	5.2	4.3	4.3	4.3
0°	6.9	6.0	5.2	5.2	4.3	4.3	4.3
-2.5°	7.3	6.1	5.3	5.2	4.3	4.3	4.3
-5°	7.8	6.2	5.3	5.2	4.4	4.3	4.3
-7.5°	8.2	6.3	5.4	5.2	4.4	4.3	4.3
-10°	8.5	6.3	5.5	5.2	4.5	4.3	4.3
-12.5°	8.8	6.4	5.5	5.2	4.5	4.3	4.3
-15°	9.0	6.4	5.6	5.1	4.5	4.3	4.3
-17.5°	9.1	6.5	5.6	5.1	4.5	4.3	4.3
-20°	9.4	6.5	5.6	5.1	4.6	4.3	4.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	10.0	6.5	5.6	5.1	4.6	4.3	4.3
-25°	10.3	6.7	5.6	5.1	4.6	4.3	4.3
-27.5°	10.4	6.9	5.6	5.1	4.6	4.3	4.3
-30°	10.2	7.0	5.6	5.1	4.6	4.3	4.3
-32.5°	9.7	7.1	5.6	5.1	4.6	4.3	4.3
-35°	9.6	7.1	5.6	5.1	4.6	4.3	4.3
-37.5°	9.6	7.1	5.6	5.2	4.6	4.3	4.3
-40°	9.5	7.1	5.6	5.2	4.6	4.3	4.3
-42.5°	9.3	7.0	5.6	5.2	4.6	4.3	4.3
-45°	9.1	7.0	5.7	5.2	4.6	4.3	4.3
-47.5°	8.7	6.8	5.7	5.2	4.5	4.3	4.3
-50°	8.5	6.7	5.7	5.2	4.5	4.3	4.3
-52.5°	8.2	6.5	5.7	5.1	4.5	4.3	4.3
-55°	7.9	6.4	5.6	5.0	4.4	4.3	4.3
-57.5°	7.6	6.3	5.6	5.0	4.4	4.3	4.3
-60°	7.2	6.2	5.5	4.9	4.3	4.3	4.3
-62.5°	6.9	6.0	5.4	4.8	4.3	4.3	4.3
-65°	6.6	5.8	5.3	4.7	4.3	4.3	4.3
-67.5°	6.3	5.6	5.1	4.6	4.3	4.3	4.3
-70°	6.0	5.5	5.0	4.5	4.3	4.3	4.3
-72.5°	5.8	5.3	4.9	4.5	4.3	4.3	4.3
-75°	5.6	5.2	4.7	4.5	4.3	4.3	4.3
-77.5°	5.4	5.0	4.7	4.4	4.3	4.3	4.3
-80°	5.2	4.9	4.6	4.4	4.3	4.3	4.3
-82.5°	5.0	4.7	4.5	4.4	4.3	4.3	4.3
-85°	4.8	4.6	4.5	4.4	4.3	4.3	4.3
-87.5°	4.5	4.4	4.4	4.3	4.3	4.3	4.3
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

