

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: P701423 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-70-4S-CV1-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701423 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320L-57-70-4S-CV1-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 4S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

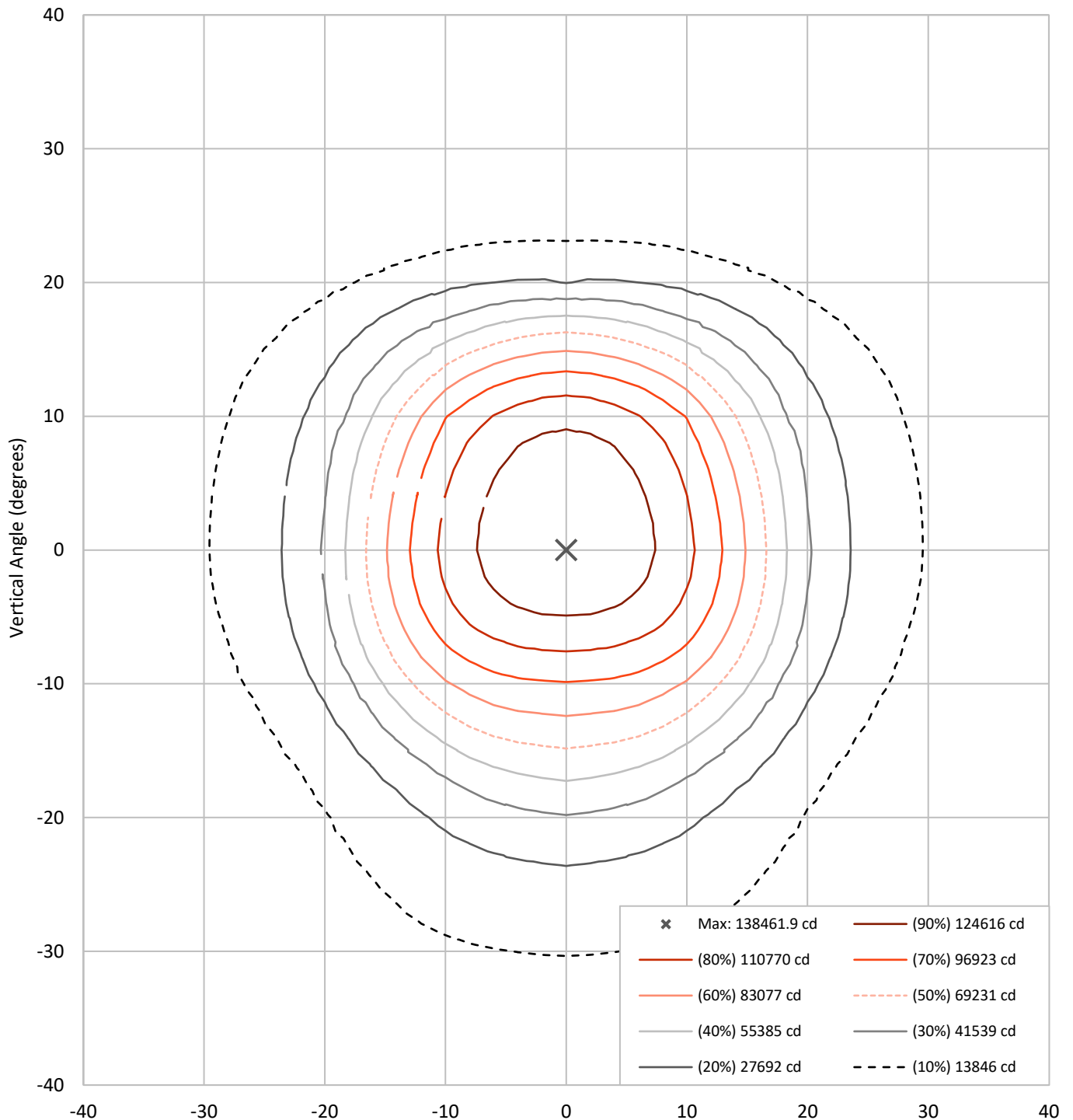
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	47176.8 lumens	Max Intensity:	138461.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	137.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.1°H x 31.1°V	Field Angle (10%):	59.1°H x 53.4°V
Beam Lumens:	25784 lumens	Field Lumens:	41546.4 lumens
Beam Efficiency:	54.7%	Field Efficiency:	88.1%

Input Watts (W): 344.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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CATALOG NUMBER: EPH-LS-08-0320L-57-70-4S-CV1-S

### Iso-Candela Plot





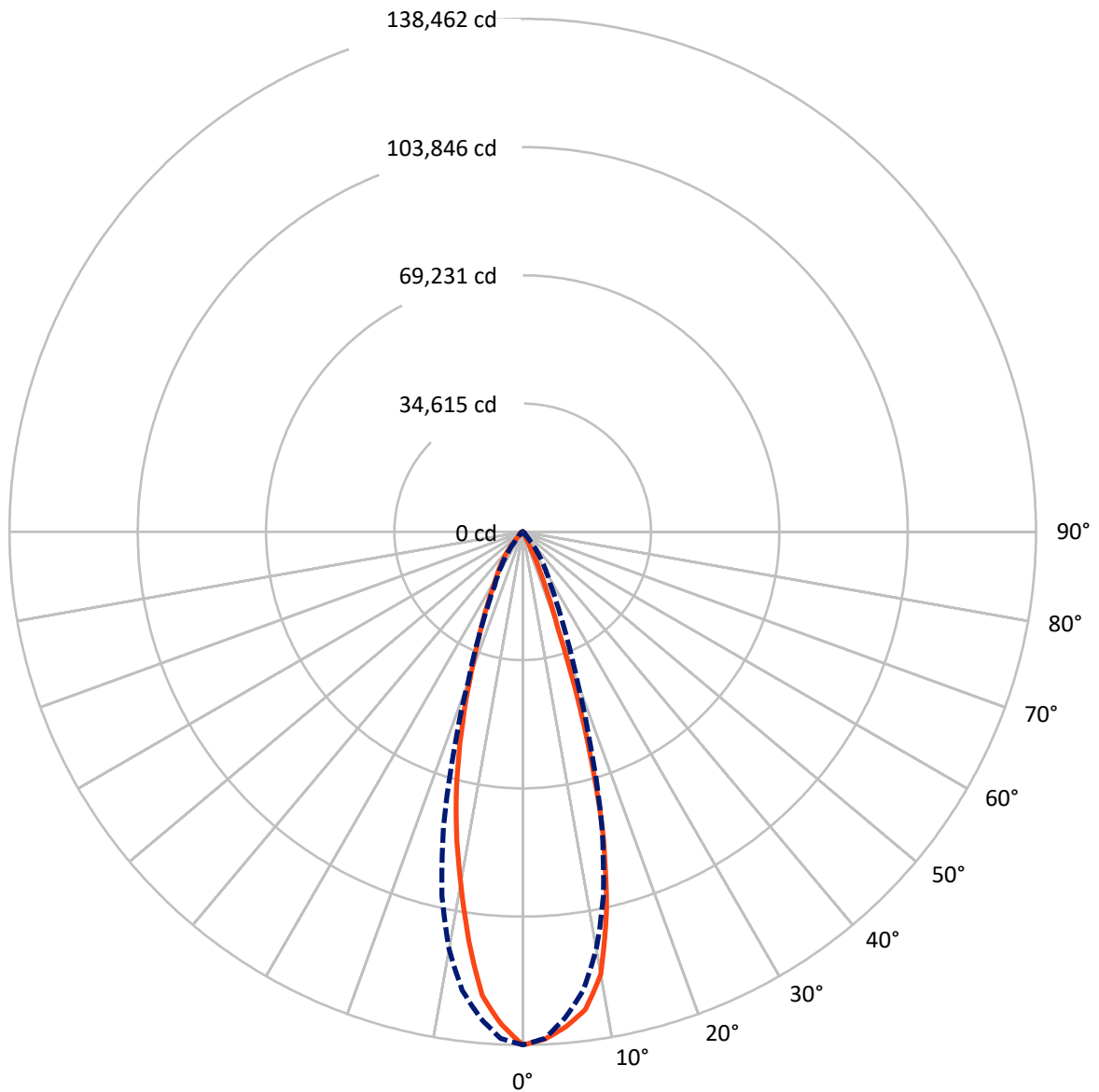
REPORT NUMBER: P701423 (CONVERTED FROM TYPE C PHOTOMETRY)  
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### Lumen Table

90																			
80	0.0	0.1		0.2		0.3		0.2		0.3		0.2		0.1		0.0			
70																			
60	0.0	0.0	0.1	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.1	0.0	0.0			
50		0.0	0.2	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.2	0.0				
40	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0.1			
30		0.1	0.5	1.4	2.6	4.4	6.7	8.3	8.3	6.7	4.4	2.6	1.4	0.5	0.1				
20	0.1	0.3	2.3	7.1	28.0	87.4	175.1	284.3	284.3	175.1	87.4	28.0	7.1	2.3	0.3	0.1			
10		0.7	5.2	17.1	115.7	395.3	1179.7	2199.4	2199.4	1179.7	395.3	115.7	17.1	5.2	0.7				
0	0.1	1.2	7.2	24.4	180.3	642.3	2202.4	3772.3	3772.3	2202.4	642.3	180.3	24.4	7.2	1.2	0.1			
-10		1.5	7.7	25.1	178.0	619.6	2131.7	3511.3	3511.3	2131.7	619.6	178.0	25.1	7.7	1.5				
-20	0.3	1.8	7.4	19.4	105.8	350.1	1075.8	1917.6	1917.6	1075.8	350.1	105.8	19.4	7.4	1.8	0.3			
-30		1.8	7.1	14.9	49.8	189.8	437.2	697.4	697.4	437.2	189.8	49.8	14.9	7.1	1.8				
-40	0.2	1.5	6.3	12.8	24.6	70.5	176.5	268.2	268.2	176.5	70.5	24.6	12.8	6.3	1.5	0.2			
-50		1.0	4.6	10.9	18.4	28.1	42.7	57.9	57.9	42.7	28.1	18.4	10.9	4.6	1.0				
-60	0.1	0.5	2.4	7.1	13.8	19.9	25.6	29.3	29.3	25.6	19.9	13.8	7.1	2.4	0.5	0.1			
-70		0.2	0.8	2.5	5.5	9.3	13.1	15.1	15.1	13.1	9.3	5.5	2.5	0.8	0.2				
-80	0.1	0.4		1.8		4.4		5.9		4.4		1.8		0.4		0.1			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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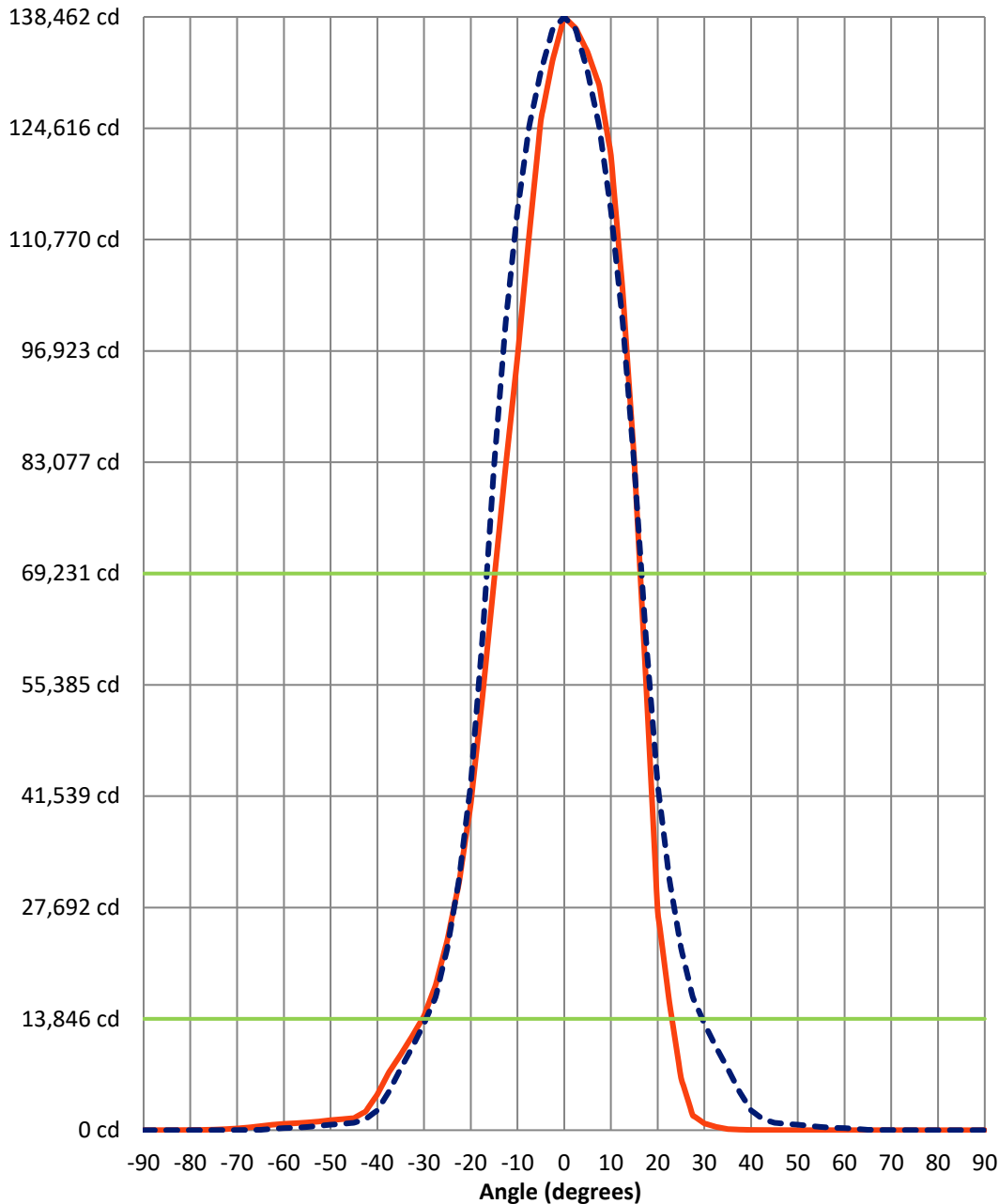
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 33.1°  
 V Angle: 31.1°  
 Lumens: 25784  
 Efficiency: 54.7%

**Field:**  
 H Angle: 59.1°  
 V Angle: 53.4°  
 Lumens: 41546.4  
 Efficiency: 88.1%

**Spill:**  
 Lumens: 5630.5  
 Efficiency: 11.9%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	1.8	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2
85°	2.4	1.9	1.4	1.4	1.4	1.3	1.2	1.2	1.2	1.2	1.2
82.5°	2.4	1.9	1.5	1.6	1.5	1.4	1.2	1.2	1.2	1.2	1.2
80°	2.4	1.9	1.6	1.7	1.6	1.5	1.3	1.4	1.4	1.4	1.2
77.5°	2.4	1.9	1.7	1.8	1.7	1.6	1.6	1.7	1.7	1.5	1.4
75°	2.4	2.0	1.8	1.9	1.9	1.8	1.9	2.0	1.9	1.8	1.9
72.5°	2.4	2.0	1.9	2.0	2.0	2.0	2.2	2.2	2.1	2.1	2.3
70°	2.4	2.0	2.0	2.2	2.1	2.2	2.4	2.3	2.3	2.4	2.4
67.5°	2.4	2.1	2.1	2.2	2.2	2.3	2.4	2.3	2.4	2.4	2.4
65°	2.4	2.1	2.2	2.2	2.2	2.4	2.4	2.4	2.4	2.4	2.4
62.5°	2.4	2.1	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4
60°	2.4	2.1	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4
57.5°	2.4	2.2	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4
55°	2.4	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
52.5°	2.4	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
50°	2.4	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1
47.5°	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.9
45°	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1	4.7
42.5°	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.5	3.7	5.7
40°	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.5	2.8	4.4	6.7
37.5°	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.7	3.4	5.2	7.7
35°	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.8	4.0	6.1	8.6
32.5°	2.4	2.3	2.4	2.4	2.4	2.4	2.4	3.0	4.6	7.0	9.5
30°	2.4	2.4	2.4	2.4	2.4	2.4	2.6	3.2	5.1	7.9	10.6
27.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.7	3.7	5.7	8.7	11.8
25°	2.4	2.4	2.4	2.4	2.4	2.4	2.8	4.1	6.4	9.6	13.2
22.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.0	4.5	7.0	10.6	16.0
20°	2.4	2.4	2.4	2.4	2.4	2.5	3.1	4.8	7.5	11.7	19.0
17.5°	2.4	2.4	2.4	2.4	2.4	2.6	3.4	5.1	8.1	12.8	22.2
15°	2.4	2.4	2.4	2.4	2.4	2.7	3.6	5.6	8.5	13.9	25.6
12.5°	2.4	2.4	2.4	2.4	2.4	2.9	3.8	6.1	9.3	15.0	29.0
10°	2.4	2.4	2.4	2.4	2.4	3.0	4.0	6.6	10.4	17.1	32.5
7.5°	2.4	2.4	2.4	2.4	2.4	3.2	4.3	7.1	11.4	19.2	36.2
5°	2.4	2.4	2.4	2.4	2.4	3.3	4.5	7.6	12.4	21.3	39.6
2.5°	2.4	2.4	2.4	2.4	2.4	3.5	4.6	8.0	13.4	23.3	42.7
0°	2.4	2.4	2.4	2.4	2.4	3.6	4.8	8.4	14.3	25.1	45.4
-2.5°	2.4	2.4	2.4	2.4	2.5	4.0	5.9	10.6	19.3	33.9	58.5
-5°	2.4	2.4	2.4	2.4	2.6	4.4	7.0	12.8	24.0	42.3	71.0
-7.5°	2.4	2.4	2.4	2.4	2.7	4.7	8.0	14.7	28.4	50.1	82.6
-10°	2.4	2.4	2.4	2.4	2.8	5.0	8.9	16.6	32.3	57.2	93.1
-12.5°	2.4	2.4	2.4	2.4	2.9	5.3	9.7	18.2	35.6	63.2	102.4
-15°	2.4	2.4	2.4	2.4	2.9	5.5	10.4	19.5	38.3	67.9	110.0
-17.5°	2.4	2.4	2.4	2.4	3.0	5.6	10.9	20.8	40.4	71.3	115.6
-20°	2.4	2.4	2.4	2.4	3.0	5.7	11.4	21.9	41.7	73.5	119.1



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 CATALOG NUMBER: EPH-LS-08-0320L-57-70-4S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.4	2.4	2.4	2.4	3.0	5.7	11.8	22.7	42.1	74.3	120.1
-25°	2.4	2.4	2.4	2.4	3.0	5.8	12.0	23.0	41.7	73.6	118.7
-27.5°	2.4	2.4	2.4	2.4	3.0	5.8	11.9	22.9	40.3	72.0	117.6
-30°	2.4	2.4	2.4	2.4	3.0	5.6	11.6	22.3	39.4	70.3	114.6
-32.5°	2.4	2.4	2.4	2.4	3.0	5.4	11.0	21.8	38.6	67.2	109.4
-35°	2.4	2.4	2.4	2.4	3.0	5.1	10.6	21.0	37.2	62.9	102.1
-37.5°	2.4	2.4	2.4	2.4	3.0	4.8	10.2	19.9	35.1	57.1	93.1
-40°	2.4	2.4	2.4	2.4	3.0	4.8	9.6	18.4	32.3	53.0	83.9
-42.5°	2.4	2.4	2.4	2.4	3.0	4.8	8.8	16.4	29.7	48.3	73.4
-45°	2.4	2.4	2.4	2.4	3.1	4.7	7.9	14.6	27.0	43.0	62.5
-47.5°	2.4	2.4	2.4	2.5	3.1	4.6	6.8	13.2	23.7	37.2	55.9
-50°	2.4	2.4	2.4	2.5	3.1	4.4	6.4	11.7	19.6	32.3	48.6
-52.5°	2.4	2.4	2.4	2.5	3.1	4.2	6.2	9.9	16.6	27.0	40.9
-55°	2.4	2.4	2.4	2.5	3.0	4.1	5.9	8.1	14.1	21.1	34.0
-57.5°	2.4	2.4	2.4	2.5	2.9	4.0	5.6	7.7	11.4	17.4	26.5
-60°	2.4	2.4	2.4	2.5	2.8	3.8	5.3	7.2	9.1	14.3	20.0
-62.5°	2.4	2.4	2.4	2.5	2.8	3.6	4.9	6.6	8.4	11.0	16.3
-65°	2.4	2.4	2.4	2.5	2.7	3.3	4.5	6.0	7.7	9.6	12.5
-67.5°	2.4	2.4	2.4	2.4	2.7	3.1	4.1	5.4	6.9	8.6	10.4
-70°	2.4	2.4	2.4	2.4	2.6	3.0	3.6	4.8	6.2	7.5	9.2
-72.5°	2.4	2.4	2.4	2.4	2.5	2.8	3.3	4.2	5.5	6.7	8.0
-75°	2.4	2.4	2.4	2.4	2.4	2.6	3.0	3.8	4.7	5.9	7.0
-77.5°	2.4	2.4	2.4	2.4	2.4	2.5	2.7	3.4	4.2	5.1	6.1
-80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0	3.6	4.3	5.2
-82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.7	3.0	3.6	4.2
-85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.8	3.1	3.4
-87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.6	2.7	2.9
-90°	2.4	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.5	1.6	1.7
80°	1.2	1.2	1.2	1.2	1.3	1.5	1.8	2.1	2.3	2.4	2.4
77.5°	1.5	1.5	1.5	1.3	1.4	1.7	2.0	2.3	2.4	2.4	2.4
75°	1.9	1.9	1.6	1.3	1.4	1.7	2.0	2.3	2.4	2.4	2.4
72.5°	2.2	1.9	1.6	1.4	1.6	2.0	2.3	2.4	3.0	3.7	4.1
70°	2.3	2.0	1.9	1.9	2.2	2.7	3.7	5.0	6.3	6.8	7.2
67.5°	2.3	2.2	2.2	2.5	3.4	4.5	6.0	7.9	9.8	10.5	11.2
65°	2.4	2.4	2.7	3.5	4.7	6.5	8.6	10.8	14.0	15.6	16.4
62.5°	2.4	2.6	3.2	4.5	6.5	8.6	11.4	14.9	19.2	22.0	21.9
60°	2.4	2.7	4.0	6.0	8.2	10.8	14.3	19.2	25.4	29.7	26.8
57.5°	2.4	3.2	5.2	7.4	9.8	12.6	17.5	23.6	29.2	35.1	30.1
55°	2.7	4.1	6.2	8.6	11.4	14.8	19.6	24.4	30.5	32.8	27.4
52.5°	3.7	5.0	7.1	9.9	13.3	16.0	18.6	22.9	25.2	26.3	22.6
50°	4.6	6.1	8.0	11.3	14.2	15.8	16.1	18.8	19.9	19.0	17.2
47.5°	5.6	7.2	9.1	12.4	14.4	15.1	14.5	15.0	15.0	14.8	12.5
45°	6.7	8.5	10.6	12.8	14.3	14.1	13.8	12.2	13.8	13.3	12.3
42.5°	7.8	9.7	11.8	13.3	13.7	14.4	14.3	14.8	14.8	15.5	16.7
40°	8.8	10.8	13.2	14.3	13.9	16.1	19.3	20.9	18.8	22.7	26.1
37.5°	9.7	12.3	15.4	17.9	16.4	21.3	26.5	34.9	36.2	33.6	42.9
35°	10.5	14.0	20.4	26.1	27.5	29.8	44.5	57.9	66.3	61.4	68.5
32.5°	11.8	15.8	27.3	39.7	49.5	52.3	67.7	95.9	112.3	115.1	110.5
30°	13.8	22.2	37.6	56.8	78.8	98.5	112.0	144.2	171.0	200.3	217.7
27.5°	16.8	30.6	54.1	83.8	117.0	153.8	184.4	209.1	258.2	308.1	350.9
25°	20.4	47.5	72.9	117.7	170.3	221.1	263.7	301.6	366.3	444.0	574.1
22.5°	29.3	69.2	104.3	155.7	229.6	293.9	351.3	410.4	489.3	594.1	866.1
20°	45.1	96.3	140.2	194.9	290.7	369.8	442.6	517.0	615.8	835.2	1432.0
17.5°	63.4	124.6	174.7	238.0	336.3	436.9	536.8	618.7	738.5	1062.2	2055.1
15°	83.4	153.8	205.8	277.5	379.5	488.9	600.6	717.8	900.5	1364.7	2646.5
12.5°	104.6	183.2	233.9	313.3	420.1	538.4	651.8	778.7	1046.7	1823.6	3399.0
10°	126.3	212.5	259.2	345.5	457.7	584.9	697.5	830.0	1161.3	2117.4	3924.5
7.5°	140.1	233.3	279.9	374.2	492.2	627.8	737.8	872.2	1258.4	2303.8	4291.8
5°	150.5	244.0	286.7	387.1	514.8	659.0	769.1	906.1	1336.6	2395.0	4545.6
2.5°	158.4	252.3	292.2	394.9	528.5	673.6	778.5	918.9	1369.0	2450.1	4721.5
0°	163.8	258.3	296.6	399.4	538.1	682.8	783.3	925.6	1374.0	2465.8	4807.2
-2.5°	172.8	263.0	305.5	407.5	543.2	685.7	787.3	930.8	1394.1	2539.5	4938.3
-5°	179.4	265.8	313.1	412.4	543.9	683.6	787.3	929.5	1382.5	2513.9	4773.0
-7.5°	183.9	267.0	319.1	414.1	536.7	668.7	771.2	903.0	1309.9	2352.2	4324.1
-10°	187.1	270.9	326.7	411.6	520.8	644.3	748.6	870.9	1216.5	2125.1	3803.9
-12.5°	192.1	277.2	334.0	407.9	504.2	616.4	722.4	833.5	1103.2	1832.5	3216.0
-15°	194.7	282.5	340.9	403.6	487.9	585.4	692.6	791.4	976.3	1479.5	2563.3
-17.5°	194.7	286.9	347.4	399.3	472.8	551.7	662.8	760.9	886.8	1262.5	2108.3
-20°	192.2	290.5	353.7	395.3	460.3	530.8	638.5	739.3	850.2	1099.9	1656.9



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	187.3	293.7	357.7	398.5	455.7	522.1	610.7	713.6	812.2	926.3	1312.3
-25°	184.0	285.8	358.3	401.7	450.9	512.9	580.7	683.3	776.6	886.6	1130.7
-27.5°	181.9	275.0	351.7	402.4	444.9	503.8	563.4	647.6	749.5	851.6	963.2
-30°	176.2	255.3	342.6	398.7	442.5	495.5	551.7	615.1	718.2	817.3	920.1
-32.5°	165.0	234.7	322.4	386.7	438.6	486.4	539.8	596.9	678.5	780.6	875.1
-35°	152.1	218.7	297.5	371.7	430.8	477.3	526.1	580.0	640.1	732.9	837.9
-37.5°	140.0	200.1	271.9	349.4	411.5	467.8	510.4	561.5	617.4	681.3	786.2
-40°	125.7	179.0	247.9	320.9	390.5	452.3	500.3	541.2	592.8	657.9	722.9
-42.5°	109.8	160.7	222.1	291.6	360.5	426.4	488.5	528.4	574.0	634.7	697.0
-45°	96.6	139.9	194.4	258.7	325.1	393.8	456.9	519.3	562.9	611.6	670.7
-47.5°	81.9	118.6	168.4	223.3	286.5	351.8	419.4	484.2	550.8	597.4	643.8
-50°	67.8	100.3	139.5	190.0	245.1	306.6	370.3	441.5	508.6	573.5	627.3
-52.5°	58.8	80.5	115.6	156.3	205.4	258.9	319.6	385.4	454.6	523.6	582.7
-55°	49.2	67.4	91.6	126.5	166.5	213.5	265.6	325.9	388.7	454.8	517.3
-57.5°	40.0	55.7	73.7	98.1	131.9	168.9	214.2	263.8	320.2	378.7	431.0
-60°	30.7	44.0	59.5	77.1	98.7	130.4	162.8	203.8	250.7	298.0	343.6
-62.5°	21.8	32.7	45.6	60.1	77.1	94.3	120.2	150.1	181.2	219.5	257.4
-65°	17.5	22.6	32.1	44.3	57.3	72.1	87.6	103.3	128.6	154.0	178.2
-67.5°	12.9	17.4	22.3	28.6	39.7	50.8	62.8	76.5	90.3	103.2	118.7
-70°	10.9	12.6	16.2	20.6	25.0	30.2	39.9	50.2	60.9	71.1	81.9
-72.5°	9.4	11.0	12.5	13.9	17.3	20.6	23.6	26.4	32.5	41.0	49.2
-75°	8.1	9.3	10.7	12.0	13.1	14.1	15.4	18.0	20.6	23.1	25.4
-77.5°	6.8	7.7	8.7	10.0	10.9	11.6	12.4	13.2	14.3	15.6	16.9
-80°	5.6	6.0	6.6	7.3	8.2	8.9	9.6	10.1	10.8	11.7	12.6
-82.5°	4.5	4.8	5.1	5.3	5.8	6.3	7.0	7.6	8.0	8.4	8.9
-85°	3.5	3.6	3.8	4.0	4.2	4.5	4.8	5.1	5.5	5.8	6.1
-87.5°	3.0	3.0	3.0	3.1	3.1	3.2	3.2	3.2	3.5	3.8	4.1
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	4.8	4.8
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.7	1.7	1.6	1.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	2.4	2.2	2.1	2.0	2.0	1.8	1.7	1.5	1.2	1.2	1.2
77.5°	2.4	2.4	2.4	2.4	2.4	2.2	1.9	1.5	1.2	1.2	1.2
75°	2.4	2.5	2.7	2.6	2.5	2.3	2.2	2.2	2.2	2.0	1.8
72.5°	4.3	4.2	4.1	4.0	3.9	3.9	3.9	3.7	3.4	3.4	3.4
70°	7.6	7.9	7.9	7.6	6.9	6.2	5.7	5.2	4.7	4.4	4.2
67.5°	11.8	11.9	11.2	10.2	8.5	7.0	6.4	5.7	5.1	4.9	5.2
65°	16.3	14.8	13.1	11.1	9.0	7.1	6.6	6.2	5.8	5.8	6.3
62.5°	20.1	16.3	13.1	10.9	8.9	7.1	6.5	6.0	5.5	5.2	5.1
60°	22.3	16.4	11.8	9.8	7.9	6.3	5.5	5.2	4.9	4.8	4.8
57.5°	22.4	15.5	10.3	8.4	6.8	5.3	4.8	4.8	4.8	4.8	4.8
55°	19.9	13.5	8.8	7.3	6.2	5.3	4.8	5.0	5.0	4.8	5.1
52.5°	15.6	11.2	8.2	6.8	6.3	6.0	5.9	5.8	5.7	5.6	5.8
50°	12.4	9.3	7.9	7.1	7.1	7.1	7.1	7.2	7.4	7.5	7.5
47.5°	10.4	8.7	8.9	8.2	8.5	9.3	9.4	9.5	9.9	9.9	9.7
45°	10.6	12.3	12.7	12.5	12.4	14.1	14.0	12.8	14.3	14.8	14.4
42.5°	17.6	19.0	20.1	21.0	22.0	23.3	24.0	23.6	25.0	24.9	23.3
40°	29.7	28.3	30.6	33.3	35.7	36.7	38.9	41.2	42.1	41.6	40.0
37.5°	48.7	46.6	46.8	52.9	58.5	51.9	61.6	65.5	63.1	71.8	73.5
35°	81.0	89.6	77.2	99.0	109.8	104.5	116.1	139.2	121.4	154.0	161.9
32.5°	143.9	164.5	177.4	195.8	222.9	258.5	267.5	324.2	342.4	368.7	397.1
30°	235.2	293.3	400.3	420.2	446.0	568.8	602.5	633.3	698.0	747.8	832.5
27.5°	427.4	584.0	807.7	1004.6	990.2	1197.9	1429.0	1170.2	1554.1	1400.1	1768.4
25°	800.3	1145.6	1685.0	2206.8	2455.9	2879.1	3408.3	3308.1	4006.4	4054.9	5084.8
22.5°	1522.1	2272.3	3097.0	3984.2	4844.9	5797.3	6712.5	7672.0	9114.5	11107.5	13044.6
20°	2490.3	3593.4	4925.4	6299.1	7755.8	9237.0	10957.9	13872.3	16860.3	21008.1	23938.4
17.5°	3539.5	5295.1	6930.2	8632.2	10668.7	13130.8	16690.6	21670.2	27710.3	33910.6	38707.1
15°	4455.9	6441.9	8798.9	11067.9	13600.2	17296.0	22887.1	30263.0	39245.3	48671.0	60069.0
12.5°	5342.6	7417.1	9978.5	12848.5	16289.6	21579.5	28826.8	38794.6	50694.0	64857.9	79497.2
10°	6030.8	8307.0	11157.8	14389.8	18589.9	25086.9	33508.9	45277.1	62910.2	79630.7	96347.7
7.5°	6568.5	9129.2	12148.9	15541.0	20431.5	27747.1	37823.2	52637.3	71268.2	89359.1	104756.7
5°	7046.5	9805.2	12820.3	16189.8	21757.2	29682.6	40533.1	57451.5	77333.1	95113.0	109765.2
2.5°	7422.9	10247.2	13189.2	16514.8	22610.6	30751.0	41962.2	60035.0	81242.5	98795.9	112786.8
0°	7650.9	10326.0	13251.0	16583.8	22675.4	31235.2	43077.5	61165.7	82636.8	100598.2	114358.7
-2.5°	7569.2	10149.5	13050.5	16380.9	22461.5	30781.5	42180.5	60592.8	81455.2	98259.8	112099.2
-5°	7162.4	9571.8	12265.7	15399.2	21042.8	29057.9	39637.6	56427.6	76037.5	92813.5	105836.4
-7.5°	6520.9	8764.6	11237.8	14138.7	19019.0	26261.8	35902.7	50190.9	67992.8	83471.9	95224.4
-10°	5803.2	7828.7	9971.5	12540.9	16355.7	22503.5	30554.4	41464.5	56732.1	70649.7	81761.8
-12.5°	4940.6	6625.7	8427.0	10642.8	13534.1	18546.1	25315.0	34165.2	44780.8	57165.6	67282.1
-15°	4044.0	5460.8	6951.7	9030.1	11496.1	14688.7	19554.2	26590.1	34469.8	42928.8	52107.7
-17.5°	3247.5	4446.9	6027.7	7778.4	9657.8	11879.5	15902.4	20697.4	26400.0	32433.6	37973.2
-20°	2608.7	3880.9	5301.0	6823.4	8550.3	10686.7	13157.9	16800.9	21029.8	25661.5	30099.2



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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°	2146.0	3286.8	4605.6	6033.6	7780.7	9703.9	11705.4	13991.6	17026.4	20587.3	23996.4
-25°	1634.5	2587.9	3867.1	5307.3	6916.7	8612.8	10237.4	12101.1	14319.7	16636.6	19023.8
-27.5°	1295.6	1968.5	3018.9	4371.4	5860.6	7188.5	8580.4	10132.2	12072.4	14088.2	15416.5
-30°	1057.4	1451.4	2239.9	3296.6	4541.2	5713.1	6856.0	8250.7	9773.7	11220.4	12394.6
-32.5°	987.8	1164.1	1572.1	2325.2	3260.0	4305.9	5331.9	6576.9	7759.0	8903.8	9913.4
-35°	938.7	1051.4	1205.2	1598.2	2161.2	3011.3	3948.6	5002.2	6069.1	6993.9	7850.1
-37.5°	892.9	990.7	1092.5	1193.9	1510.9	1900.0	2560.1	3393.4	4202.7	4951.1	5688.2
-40°	827.6	934.7	1017.0	1103.7	1198.0	1305.1	1650.6	1991.0	2387.2	2961.2	3464.0
-42.5°	758.2	847.6	941.3	1022.4	1101.3	1183.6	1270.7	1357.2	1538.3	1763.5	1948.0
-45°	729.3	783.0	847.4	932.2	1011.4	1085.3	1156.2	1224.7	1297.1	1363.1	1417.1
-47.5°	694.6	743.5	795.6	850.9	909.1	980.4	1050.5	1120.3	1183.6	1242.4	1289.4
-50°	662.6	701.0	747.6	794.5	841.1	889.0	937.3	991.2	1051.7	1111.2	1160.2
-52.5°	636.4	671.6	704.9	738.2	778.7	819.3	859.9	902.8	944.1	983.2	1013.6
-55°	572.9	622.4	671.1	702.6	729.9	757.5	788.3	826.7	863.3	898.0	918.5
-57.5°	486.3	543.7	596.4	633.5	671.5	710.0	741.8	769.2	796.9	823.4	837.9
-60°	390.1	437.2	484.9	529.2	571.5	611.4	648.4	684.5	717.8	745.9	762.9
-62.5°	294.8	333.9	372.7	409.7	445.3	480.0	519.4	557.4	593.6	623.2	641.3
-65°	205.2	237.3	267.4	296.2	323.8	353.3	384.0	413.8	442.4	465.1	480.0
-67.5°	139.6	159.3	177.3	194.4	215.4	238.1	260.6	281.5	300.7	315.5	325.9
-70°	92.8	103.3	112.8	123.8	137.6	151.4	165.3	178.2	190.0	198.8	205.4
-72.5°	57.1	64.4	71.2	78.7	85.7	92.9	100.5	107.9	115.0	120.2	124.1
-75°	27.5	30.8	36.9	42.4	47.3	52.0	56.2	59.8	63.0	65.0	66.3
-77.5°	18.7	20.2	21.7	23.2	24.8	26.6	28.5	30.4	32.1	33.4	34.6
-80°	13.5	14.3	15.0	15.6	16.1	16.9	17.7	18.6	19.4	19.8	20.0
-82.5°	9.4	10.0	10.6	11.2	11.8	12.4	12.9	13.3	13.8	14.2	14.6
-85°	6.3	6.6	7.0	7.3	7.7	8.1	8.6	9.0	9.3	9.4	9.5
-87.5°	4.4	4.5	4.6	4.6	4.7	5.0	5.3	5.6	6.0	6.0	6.0
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.5
87.5°	1.2	1.2	0.6	0.0	0.6	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5
75°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.0	2.2	2.2
72.5°	3.5	3.5	3.0	2.4	3.0	3.5	3.5	3.4	3.4	3.4	3.7
70°	3.9	3.6	3.6	3.6	3.6	3.6	3.9	4.2	4.4	4.7	5.2
67.5°	5.5	5.9	6.0	6.0	6.0	5.9	5.5	5.2	4.9	5.1	5.7
65°	6.7	7.1	6.7	6.0	6.7	7.1	6.7	6.3	5.8	5.8	6.2
62.5°	5.0	4.9	4.8	4.8	4.8	4.9	5.0	5.1	5.2	5.5	6.0
60°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9	5.2
57.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
55°	5.4	5.8	6.0	6.0	6.0	5.8	5.4	5.1	4.8	5.0	5.0
52.5°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.8	5.6	5.7	5.8
50°	7.5	7.3	7.2	7.2	7.2	7.3	7.5	7.5	7.5	7.4	7.2
47.5°	9.3	8.7	8.4	8.4	8.4	8.7	9.3	9.7	9.9	9.9	9.5
45°	14.5	14.3	14.2	14.3	14.2	14.3	14.5	14.4	14.8	14.3	12.8
42.5°	24.2	24.6	24.2	22.7	24.2	24.6	24.2	23.3	24.9	25.0	23.6
40°	40.1	38.6	36.5	35.9	36.5	38.6	40.1	40.0	41.6	42.1	41.2
37.5°	74.4	74.4	72.6	71.7	72.6	74.4	74.4	73.5	71.8	63.1	65.5
35°	156.5	155.3	146.8	138.7	146.8	155.3	156.5	161.9	154.0	121.4	139.2
32.5°	406.6	428.2	426.2	413.8	426.2	428.2	406.6	397.1	368.7	342.4	324.2
30°	865.0	903.6	895.5	844.3	895.5	903.6	865.0	832.5	747.8	698.0	633.3
27.5°	1788.0	1878.4	1958.0	1853.5	1958.0	1878.4	1788.0	1768.4	1400.1	1554.1	1170.2
25°	6116.0	6704.1	7052.1	6511.3	7052.1	6704.1	6116.0	5084.8	4054.9	4006.4	3308.1
22.5°	14596.4	15329.3	15720.5	15944.0	15720.5	15329.3	14596.4	13044.6	11107.5	9114.5	7672.0
20°	26774.7	28342.0	29346.0	27323.6	29346.0	28342.0	26774.7	23938.4	21008.1	16860.3	13872.3
17.5°	45361.1	51141.4	54184.8	55838.2	54184.8	51141.4	45361.1	38707.1	33910.6	27710.3	21670.2
15°	68865.3	76261.1	81255.5	83210.8	81255.5	76261.1	68865.3	60069.0	48671.0	39245.3	30263.0
12.5°	91088.7	98720.1	103328.2	104486.5	103328.2	98720.1	91088.7	79497.2	64857.9	50694.0	38794.6
10°	106895.6	114086.2	119387.0	121247.9	119387.0	114086.2	106895.6	96347.7	79630.7	62910.2	45277.1
7.5°	115695.3	124100.6	128772.6	129935.6	128772.6	124100.6	115695.3	104756.7	89359.1	71268.2	52637.3
5°	120759.8	128354.1	133461.1	134080.4	133461.1	128354.1	120759.8	109765.2	95113.0	77333.1	57451.5
2.5°	124025.2	131452.2	135749.1	137012.0	135749.1	131452.2	124025.2	112786.8	98795.9	81242.5	60035.0
0°	124826.4	131655.2	136846.3	138461.9	136846.3	131655.2	124826.4	114358.7	100598.2	82636.8	61165.7
-2.5°	122400.3	128988.0	132445.9	133006.6	132445.9	128988.0	122400.3	112099.2	98259.8	81455.2	60592.8
-5°	116204.6	121076.7	125068.6	125579.2	125068.6	121076.7	116204.6	105836.4	92813.5	76037.5	56427.6
-7.5°	103044.0	108509.4	110717.2	111314.7	110717.2	108509.4	103044.0	95224.4	83471.9	67992.8	50190.9
-10°	89041.3	93723.3	95287.5	96131.8	95287.5	93723.3	89041.3	81761.8	70649.7	56732.1	41464.5
-12.5°	75332.5	79910.9	81449.4	82671.5	81449.4	79910.9	75332.5	67282.1	57165.6	44780.8	34165.2
-15°	59973.0	64481.5	66967.1	68343.0	66967.1	64481.5	59973.0	52107.7	42928.8	34469.8	26590.1
-17.5°	45003.6	49285.3	52178.2	53861.5	52178.2	49285.3	45003.6	37973.2	32433.6	26400.0	20697.4
-20°	34123.4	37021.3	39247.5	40568.6	39247.5	37021.3	34123.4	30099.2	25661.5	21029.8	16800.9



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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°	26655.5	28662.6	29952.3	30796.3	29952.3	28662.6	26655.5	23996.4	20587.3	17026.4	13991.6
-25°	20832.9	22150.1	22984.2	23666.7	22984.2	22150.1	20832.9	19023.8	16636.6	14319.7	12101.1
-27.5°	16495.2	17201.5	17570.1	18071.4	17570.1	17201.5	16495.2	15416.5	14088.2	12072.4	10132.2
-30°	13260.5	13802.4	14095.4	14204.1	14095.4	13802.4	13260.5	12394.6	11220.4	9773.7	8250.7
-32.5°	10672.5	11184.4	11554.2	11727.5	11554.2	11184.4	10672.5	9913.4	8903.8	7759.0	6576.9
-35°	8514.6	8941.6	9233.1	9393.3	9233.1	8941.6	8514.6	7850.1	6993.9	6069.1	5002.2
-37.5°	6298.5	6767.2	7088.0	7197.7	7088.0	6767.2	6298.5	5688.2	4951.1	4202.7	3393.4
-40°	3864.4	4162.9	4355.6	4436.5	4355.6	4162.9	3864.4	3464.0	2961.2	2387.2	1991.0
-42.5°	2091.7	2201.3	2277.4	2321.1	2277.4	2201.3	2091.7	1948.0	1763.5	1538.3	1357.2
-45°	1452.0	1479.8	1497.4	1504.4	1497.4	1479.8	1452.0	1417.1	1363.1	1297.1	1224.7
-47.5°	1323.7	1353.7	1369.6	1370.4	1369.6	1353.7	1323.7	1289.4	1242.4	1183.6	1120.3
-50°	1199.0	1231.6	1248.0	1249.6	1248.0	1231.6	1199.0	1160.2	1111.2	1051.7	991.2
-52.5°	1041.3	1067.2	1078.4	1077.4	1078.4	1067.2	1041.3	1013.6	983.2	944.1	902.8
-55°	936.2	951.6	958.4	959.1	958.4	951.6	936.2	918.5	898.0	863.3	826.7
-57.5°	850.8	862.2	866.2	865.8	866.2	862.2	850.8	837.9	823.4	796.9	769.2
-60°	777.7	790.1	793.6	791.6	793.6	790.1	777.7	762.9	745.9	717.8	684.5
-62.5°	656.2	667.5	673.2	674.4	673.2	667.5	656.2	641.3	623.2	593.6	557.4
-65°	491.8	500.3	504.8	505.8	504.8	500.3	491.8	480.0	465.1	442.4	413.8
-67.5°	334.0	339.8	341.6	340.8	341.6	339.8	334.0	325.9	315.5	300.7	281.5
-70°	210.8	214.8	215.8	215.2	215.8	214.8	210.8	205.4	198.8	190.0	178.2
-72.5°	127.3	129.7	129.9	129.1	129.9	129.7	127.3	124.1	120.2	115.0	107.9
-75°	67.2	67.5	67.4	67.0	67.4	67.5	67.2	66.3	65.0	63.0	59.8
-77.5°	35.8	36.7	36.4	35.9	36.4	36.7	35.8	34.6	33.4	32.1	30.4
-80°	20.1	20.2	20.3	20.3	20.3	20.2	20.1	20.0	19.8	19.4	18.6
-82.5°	15.0	15.4	14.9	14.3	14.9	15.4	15.0	14.6	14.2	13.8	13.3
-85°	9.5	9.6	9.6	9.6	9.6	9.6	9.5	9.5	9.4	9.3	9.0
-87.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.6
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.9	1.2	1.2



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	4.2	3.9	3.6	3.3	3.0	2.7	2.4	2.4	2.4	2.4	2.4
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.4	1.6	1.7	1.7	1.7	1.6	1.5	1.3
80°	1.7	1.8	2.0	2.0	2.1	2.2	2.4	2.4	2.4	2.3	2.1
77.5°	1.9	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3
75°	2.2	2.3	2.5	2.6	2.7	2.5	2.4	2.4	2.4	2.4	2.3
72.5°	3.9	3.9	3.9	4.0	4.1	4.2	4.3	4.1	3.7	3.0	2.4
70°	5.7	6.2	6.9	7.6	7.9	7.9	7.6	7.2	6.8	6.3	5.0
67.5°	6.4	7.0	8.5	10.2	11.2	11.9	11.8	11.2	10.5	9.8	7.9
65°	6.6	7.1	9.0	11.1	13.1	14.8	16.3	16.4	15.6	14.0	10.8
62.5°	6.5	7.1	8.9	10.9	13.1	16.3	20.1	21.9	22.0	19.2	14.9
60°	5.5	6.3	7.9	9.8	11.8	16.4	22.3	26.8	29.7	25.4	19.2
57.5°	4.8	5.3	6.8	8.4	10.3	15.5	22.4	30.1	35.1	29.2	23.6
55°	4.8	5.3	6.2	7.3	8.8	13.5	19.9	27.4	32.8	30.5	24.4
52.5°	5.9	6.0	6.3	6.8	8.2	11.2	15.6	22.6	26.3	25.2	22.9
50°	7.1	7.1	7.1	7.1	7.9	9.3	12.4	17.2	19.0	19.9	18.8
47.5°	9.4	9.3	8.5	8.2	8.9	8.7	10.4	12.5	14.8	15.0	15.0
45°	14.0	14.1	12.4	12.5	12.7	12.3	10.6	12.3	13.3	13.8	12.2
42.5°	24.0	23.3	22.0	21.0	20.1	19.0	17.6	16.7	15.5	14.8	14.8
40°	38.9	36.7	35.7	33.3	30.6	28.3	29.7	26.1	22.7	18.8	20.9
37.5°	61.6	51.9	58.5	52.9	46.8	46.6	48.7	42.9	33.6	36.2	34.9
35°	116.1	104.5	109.8	99.0	77.2	89.6	81.0	68.5	61.4	66.3	57.9
32.5°	267.5	258.5	222.9	195.8	177.4	164.5	143.9	110.5	115.1	112.3	95.9
30°	602.5	568.8	446.0	420.2	400.3	293.3	235.2	217.7	200.3	171.0	144.2
27.5°	1429.0	1197.9	990.2	1004.6	807.7	584.0	427.4	350.9	308.1	258.2	209.1
25°	3408.3	2879.1	2455.9	2206.8	1685.0	1145.6	800.3	574.1	444.0	366.3	301.6
22.5°	6712.5	5797.3	4844.9	3984.2	3097.0	2272.3	1522.1	866.1	594.1	489.3	410.4
20°	10957.9	9237.0	7755.8	6299.1	4925.4	3593.4	2490.3	1432.0	835.2	615.8	517.0
17.5°	16690.6	13130.8	10668.7	8632.2	6930.2	5295.1	3539.5	2055.1	1062.2	738.5	618.7
15°	22887.1	17296.0	13600.2	11067.9	8798.9	6441.9	4455.9	2646.5	1364.7	900.5	717.8
12.5°	28826.8	21579.5	16289.6	12848.5	9978.5	7417.1	5342.6	3399.0	1823.6	1046.7	778.7
10°	33508.9	25086.9	18589.9	14389.8	11157.8	8307.0	6030.8	3924.5	2117.4	1161.3	830.0
7.5°	37823.2	27747.1	20431.5	15541.0	12148.9	9129.2	6568.5	4291.8	2303.8	1258.4	872.2
5°	40533.1	29682.6	21757.2	16189.8	12820.3	9805.2	7046.5	4545.6	2395.0	1336.6	906.1
2.5°	41962.2	30751.0	22610.6	16514.8	13189.2	10247.2	7422.9	4721.5	2450.1	1369.0	918.9
0°	43077.5	31235.2	22675.4	16583.8	13251.0	10326.0	7650.9	4807.2	2465.8	1374.0	925.6
-2.5°	42180.5	30781.5	22461.5	16380.9	13050.5	10149.5	7569.2	4938.3	2539.5	1394.1	930.8
-5°	39637.6	29057.9	21042.8	15399.2	12265.7	9571.8	7162.4	4773.0	2513.9	1382.5	929.5
-7.5°	35902.7	26261.8	19019.0	14138.7	11237.8	8764.6	6520.9	4324.1	2352.2	1309.9	903.0
-10°	30554.4	22503.5	16355.7	12540.9	9971.5	7828.7	5803.2	3803.9	2125.1	1216.5	870.9
-12.5°	25315.0	18546.1	13534.1	10642.8	8427.0	6625.7	4940.6	3216.0	1832.5	1103.2	833.5
-15°	19554.2	14688.7	11496.1	9030.1	6951.7	5460.8	4044.0	2563.3	1479.5	976.3	791.4
-17.5°	15902.4	11879.5	9657.8	7778.4	6027.7	4446.9	3247.5	2108.3	1262.5	886.8	760.9
-20°	13157.9	10686.7	8550.3	6823.4	5301.0	3880.9	2608.7	1656.9	1099.9	850.2	739.3



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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°	11705.4	9703.9	7780.7	6033.6	4605.6	3286.8	2146.0	1312.3	926.3	812.2	713.6
-25°	10237.4	8612.8	6916.7	5307.3	3867.1	2587.9	1634.5	1130.7	886.6	776.6	683.3
-27.5°	8580.4	7188.5	5860.6	4371.4	3018.9	1968.5	1295.6	963.2	851.6	749.5	647.6
-30°	6856.0	5713.1	4541.2	3296.6	2239.9	1451.4	1057.4	920.1	817.3	718.2	615.1
-32.5°	5331.9	4305.9	3260.0	2325.2	1572.1	1164.1	987.8	875.1	780.6	678.5	596.9
-35°	3948.6	3011.3	2161.2	1598.2	1205.2	1051.4	938.7	837.9	732.9	640.1	580.0
-37.5°	2560.1	1900.0	1510.9	1193.9	1092.5	990.7	892.9	786.2	681.3	617.4	561.5
-40°	1650.6	1305.1	1198.0	1103.7	1017.0	934.7	827.6	722.9	657.9	592.8	541.2
-42.5°	1270.7	1183.6	1101.3	1022.4	941.3	847.6	758.2	697.0	634.7	574.0	528.4
-45°	1156.2	1085.3	1011.4	932.2	847.4	783.0	729.3	670.7	611.6	562.9	519.3
-47.5°	1050.5	980.4	909.1	850.9	795.6	743.5	694.6	643.8	597.4	550.8	484.2
-50°	937.3	889.0	841.1	794.5	747.6	701.0	662.6	627.3	573.5	508.6	441.5
-52.5°	859.9	819.3	778.7	738.2	704.9	671.6	636.4	582.7	523.6	454.6	385.4
-55°	788.3	757.5	729.9	702.6	671.1	622.4	572.9	517.3	454.8	388.7	325.9
-57.5°	741.8	710.0	671.5	633.5	596.4	543.7	486.3	431.0	378.7	320.2	263.8
-60°	648.4	611.4	571.5	529.2	484.9	437.2	390.1	343.6	298.0	250.7	203.8
-62.5°	519.4	480.0	445.3	409.7	372.7	333.9	294.8	257.4	219.5	181.2	150.1
-65°	384.0	353.3	323.8	296.2	267.4	237.3	205.2	178.2	154.0	128.6	103.3
-67.5°	260.6	238.1	215.4	194.4	177.3	159.3	139.6	118.7	103.2	90.3	76.5
-70°	165.3	151.4	137.6	123.8	112.8	103.3	92.8	81.9	71.1	60.9	50.2
-72.5°	100.5	92.9	85.7	78.7	71.2	64.4	57.1	49.2	41.0	32.5	26.4
-75°	56.2	52.0	47.3	42.4	36.9	30.8	27.5	25.4	23.1	20.6	18.0
-77.5°	28.5	26.6	24.8	23.2	21.7	20.2	18.7	16.9	15.6	14.3	13.2
-80°	17.7	16.9	16.1	15.6	15.0	14.3	13.5	12.6	11.7	10.8	10.1
-82.5°	12.9	12.4	11.8	11.2	10.6	10.0	9.4	8.9	8.4	8.0	7.6
-85°	8.6	8.1	7.7	7.3	7.0	6.6	6.3	6.1	5.8	5.5	5.1
-87.5°	5.3	5.0	4.7	4.6	4.6	4.5	4.4	4.1	3.8	3.5	3.2
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.8	1.5	1.3	1.2	1.2	1.2	1.2	1.2	1.4	1.4	1.4
77.5°	2.0	1.7	1.4	1.3	1.5	1.5	1.5	1.4	1.5	1.7	1.7
75°	2.0	1.7	1.4	1.3	1.6	1.9	1.9	1.9	1.8	1.9	2.0
72.5°	2.3	2.0	1.6	1.4	1.6	1.9	2.2	2.3	2.1	2.1	2.2
70°	3.7	2.7	2.2	1.9	1.9	2.0	2.3	2.4	2.4	2.3	2.3
67.5°	6.0	4.5	3.4	2.5	2.2	2.2	2.3	2.4	2.4	2.4	2.3
65°	8.6	6.5	4.7	3.5	2.7	2.4	2.4	2.4	2.4	2.4	2.4
62.5°	11.4	8.6	6.5	4.5	3.2	2.6	2.4	2.4	2.4	2.4	2.4
60°	14.3	10.8	8.2	6.0	4.0	2.7	2.4	2.4	2.4	2.4	2.4
57.5°	17.5	12.6	9.8	7.4	5.2	3.2	2.4	2.4	2.4	2.4	2.4
55°	19.6	14.8	11.4	8.6	6.2	4.1	2.7	2.4	2.4	2.4	2.4
52.5°	18.6	16.0	13.3	9.9	7.1	5.0	3.7	2.4	2.4	2.4	2.4
50°	16.1	15.8	14.2	11.3	8.0	6.1	4.6	3.1	2.4	2.4	2.4
47.5°	14.5	15.1	14.4	12.4	9.1	7.2	5.6	3.9	2.4	2.4	2.4
45°	13.8	14.1	14.3	12.8	10.6	8.5	6.7	4.7	3.1	2.4	2.4
42.5°	14.3	14.4	13.7	13.3	11.8	9.7	7.8	5.7	3.7	2.5	2.4
40°	19.3	16.1	13.9	14.3	13.2	10.8	8.8	6.7	4.4	2.8	2.5
37.5°	26.5	21.3	16.4	17.9	15.4	12.3	9.7	7.7	5.2	3.4	2.7
35°	44.5	29.8	27.5	26.1	20.4	14.0	10.5	8.6	6.1	4.0	2.8
32.5°	67.7	52.3	49.5	39.7	27.3	15.8	11.8	9.5	7.0	4.6	3.0
30°	112.0	98.5	78.8	56.8	37.6	22.2	13.8	10.6	7.9	5.1	3.2
27.5°	184.4	153.8	117.0	83.8	54.1	30.6	16.8	11.8	8.7	5.7	3.7
25°	263.7	221.1	170.3	117.7	72.9	47.5	20.4	13.2	9.6	6.4	4.1
22.5°	351.3	293.9	229.6	155.7	104.3	69.2	29.3	16.0	10.6	7.0	4.5
20°	442.6	369.8	290.7	194.9	140.2	96.3	45.1	19.0	11.7	7.5	4.8
17.5°	536.8	436.9	336.3	238.0	174.7	124.6	63.4	22.2	12.8	8.1	5.1
15°	600.6	488.9	379.5	277.5	205.8	153.8	83.4	25.6	13.9	8.5	5.6
12.5°	651.8	538.4	420.1	313.3	233.9	183.2	104.6	29.0	15.0	9.3	6.1
10°	697.5	584.9	457.7	345.5	259.2	212.5	126.3	32.5	17.1	10.4	6.6
7.5°	737.8	627.8	492.2	374.2	279.9	233.3	140.1	36.2	19.2	11.4	7.1
5°	769.1	659.0	514.8	387.1	286.7	244.0	150.5	39.6	21.3	12.4	7.6
2.5°	778.5	673.6	528.5	394.9	292.2	252.3	158.4	42.7	23.3	13.4	8.0
0°	783.3	682.8	538.1	399.4	296.6	258.3	163.8	45.4	25.1	14.3	8.4
-2.5°	787.3	685.7	543.2	407.5	305.5	263.0	172.8	58.5	33.9	19.3	10.6
-5°	787.3	683.6	543.9	412.4	313.1	265.8	179.4	71.0	42.3	24.0	12.8
-7.5°	771.2	668.7	536.7	414.1	319.1	267.0	183.9	82.6	50.1	28.4	14.7
-10°	748.6	644.3	520.8	411.6	326.7	270.9	187.1	93.1	57.2	32.3	16.6
-12.5°	722.4	616.4	504.2	407.9	334.0	277.2	192.1	102.4	63.2	35.6	18.2
-15°	692.6	585.4	487.9	403.6	340.9	282.5	194.7	110.0	67.9	38.3	19.5
-17.5°	662.8	551.7	472.8	399.3	347.4	286.9	194.7	115.6	71.3	40.4	20.8
-20°	638.5	530.8	460.3	395.3	353.7	290.5	192.2	119.1	73.5	41.7	21.9



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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°	610.7	522.1	455.7	398.5	357.7	293.7	187.3	120.1	74.3	42.1	22.7
-25°	580.7	512.9	450.9	401.7	358.3	285.8	184.0	118.7	73.6	41.7	23.0
-27.5°	563.4	503.8	444.9	402.4	351.7	275.0	181.9	117.6	72.0	40.3	22.9
-30°	551.7	495.5	442.5	398.7	342.6	255.3	176.2	114.6	70.3	39.4	22.3
-32.5°	539.8	486.4	438.6	386.7	322.4	234.7	165.0	109.4	67.2	38.6	21.8
-35°	526.1	477.3	430.8	371.7	297.5	218.7	152.1	102.1	62.9	37.2	21.0
-37.5°	510.4	467.8	411.5	349.4	271.9	200.1	140.0	93.1	57.1	35.1	19.9
-40°	500.3	452.3	390.5	320.9	247.9	179.0	125.7	83.9	53.0	32.3	18.4
-42.5°	488.5	426.4	360.5	291.6	222.1	160.7	109.8	73.4	48.3	29.7	16.4
-45°	456.9	393.8	325.1	258.7	194.4	139.9	96.6	62.5	43.0	27.0	14.6
-47.5°	419.4	351.8	286.5	223.3	168.4	118.6	81.9	55.9	37.2	23.7	13.2
-50°	370.3	306.6	245.1	190.0	139.5	100.3	67.8	48.6	32.3	19.6	11.7
-52.5°	319.6	258.9	205.4	156.3	115.6	80.5	58.8	40.9	27.0	16.6	9.9
-55°	265.6	213.5	166.5	126.5	91.6	67.4	49.2	34.0	21.1	14.1	8.1
-57.5°	214.2	168.9	131.9	98.1	73.7	55.7	40.0	26.5	17.4	11.4	7.7
-60°	162.8	130.4	98.7	77.1	59.5	44.0	30.7	20.0	14.3	9.1	7.2
-62.5°	120.2	94.3	77.1	60.1	45.6	32.7	21.8	16.3	11.0	8.4	6.6
-65°	87.6	72.1	57.3	44.3	32.1	22.6	17.5	12.5	9.6	7.7	6.0
-67.5°	62.8	50.8	39.7	28.6	22.3	17.4	12.9	10.4	8.6	6.9	5.4
-70°	39.9	30.2	25.0	20.6	16.2	12.6	10.9	9.2	7.5	6.2	4.8
-72.5°	23.6	20.6	17.3	13.9	12.5	11.0	9.4	8.0	6.7	5.5	4.2
-75°	15.4	14.1	13.1	12.0	10.7	9.3	8.1	7.0	5.9	4.7	3.8
-77.5°	12.4	11.6	10.9	10.0	8.7	7.7	6.8	6.1	5.1	4.2	3.4
-80°	9.6	8.9	8.2	7.3	6.6	6.0	5.6	5.2	4.3	3.6	3.0
-82.5°	7.0	6.3	5.8	5.3	5.1	4.8	4.5	4.2	3.6	3.0	2.7
-85°	4.8	4.5	4.2	4.0	3.8	3.6	3.5	3.4	3.1	2.8	2.6
-87.5°	3.2	3.2	3.1	3.1	3.0	3.0	3.0	2.9	2.7	2.6	2.5
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	1.2	1.3	1.3	1.3	1.3	1.8	2.4
85°	1.2	1.3	1.4	1.4	1.4	1.9	2.4
82.5°	1.2	1.4	1.5	1.6	1.5	1.9	2.4
80°	1.3	1.5	1.6	1.7	1.6	1.9	2.4
77.5°	1.6	1.6	1.7	1.8	1.7	1.9	2.4
75°	1.9	1.8	1.9	1.9	1.8	2.0	2.4
72.5°	2.2	2.0	2.0	2.0	1.9	2.0	2.4
70°	2.4	2.2	2.1	2.2	2.0	2.0	2.4
67.5°	2.4	2.3	2.2	2.2	2.1	2.1	2.4
65°	2.4	2.4	2.2	2.2	2.2	2.1	2.4
62.5°	2.4	2.4	2.3	2.3	2.3	2.1	2.4
60°	2.4	2.4	2.4	2.3	2.4	2.1	2.4
57.5°	2.4	2.4	2.4	2.3	2.4	2.2	2.4
55°	2.4	2.4	2.4	2.4	2.4	2.2	2.4
52.5°	2.4	2.4	2.4	2.4	2.4	2.2	2.4
50°	2.4	2.4	2.4	2.4	2.4	2.2	2.4
47.5°	2.4	2.4	2.4	2.4	2.4	2.3	2.4
45°	2.4	2.4	2.4	2.4	2.4	2.3	2.4
42.5°	2.4	2.4	2.4	2.4	2.4	2.3	2.4
40°	2.4	2.4	2.4	2.4	2.4	2.3	2.4
37.5°	2.4	2.4	2.4	2.4	2.4	2.3	2.4
35°	2.4	2.4	2.4	2.4	2.4	2.3	2.4
32.5°	2.4	2.4	2.4	2.4	2.4	2.3	2.4
30°	2.6	2.4	2.4	2.4	2.4	2.4	2.4
27.5°	2.7	2.4	2.4	2.4	2.4	2.4	2.4
25°	2.8	2.4	2.4	2.4	2.4	2.4	2.4
22.5°	3.0	2.4	2.4	2.4	2.4	2.4	2.4
20°	3.1	2.5	2.4	2.4	2.4	2.4	2.4
17.5°	3.4	2.6	2.4	2.4	2.4	2.4	2.4
15°	3.6	2.7	2.4	2.4	2.4	2.4	2.4
12.5°	3.8	2.9	2.4	2.4	2.4	2.4	2.4
10°	4.0	3.0	2.4	2.4	2.4	2.4	2.4
7.5°	4.3	3.2	2.4	2.4	2.4	2.4	2.4
5°	4.5	3.3	2.4	2.4	2.4	2.4	2.4
2.5°	4.6	3.5	2.4	2.4	2.4	2.4	2.4
0°	4.8	3.6	2.4	2.4	2.4	2.4	2.4
-2.5°	5.9	4.0	2.5	2.4	2.4	2.4	2.4
-5°	7.0	4.4	2.6	2.4	2.4	2.4	2.4
-7.5°	8.0	4.7	2.7	2.4	2.4	2.4	2.4
-10°	8.9	5.0	2.8	2.4	2.4	2.4	2.4
-12.5°	9.7	5.3	2.9	2.4	2.4	2.4	2.4
-15°	10.4	5.5	2.9	2.4	2.4	2.4	2.4
-17.5°	10.9	5.6	3.0	2.4	2.4	2.4	2.4
-20°	11.4	5.7	3.0	2.4	2.4	2.4	2.4



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	11.8	5.7	3.0	2.4	2.4	2.4	2.4
-25°	12.0	5.8	3.0	2.4	2.4	2.4	2.4
-27.5°	11.9	5.8	3.0	2.4	2.4	2.4	2.4
-30°	11.6	5.6	3.0	2.4	2.4	2.4	2.4
-32.5°	11.0	5.4	3.0	2.4	2.4	2.4	2.4
-35°	10.6	5.1	3.0	2.4	2.4	2.4	2.4
-37.5°	10.2	4.8	3.0	2.4	2.4	2.4	2.4
-40°	9.6	4.8	3.0	2.4	2.4	2.4	2.4
-42.5°	8.8	4.8	3.0	2.4	2.4	2.4	2.4
-45°	7.9	4.7	3.1	2.4	2.4	2.4	2.4
-47.5°	6.8	4.6	3.1	2.5	2.4	2.4	2.4
-50°	6.4	4.4	3.1	2.5	2.4	2.4	2.4
-52.5°	6.2	4.2	3.1	2.5	2.4	2.4	2.4
-55°	5.9	4.1	3.0	2.5	2.4	2.4	2.4
-57.5°	5.6	4.0	2.9	2.5	2.4	2.4	2.4
-60°	5.3	3.8	2.8	2.5	2.4	2.4	2.4
-62.5°	4.9	3.6	2.8	2.5	2.4	2.4	2.4
-65°	4.5	3.3	2.7	2.5	2.4	2.4	2.4
-67.5°	4.1	3.1	2.7	2.4	2.4	2.4	2.4
-70°	3.6	3.0	2.6	2.4	2.4	2.4	2.4
-72.5°	3.3	2.8	2.5	2.4	2.4	2.4	2.4
-75°	3.0	2.6	2.4	2.4	2.4	2.4	2.4
-77.5°	2.7	2.5	2.4	2.4	2.4	2.4	2.4
-80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
-82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
-85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
-87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
-90°	1.2	1.2	1.2	1.2	1.2	1.8	2.4

(END OF REPORT)

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

Scaled Data Report



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

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)



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

Scaled Data Report

