

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: P731428 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-1S-CV5**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731428 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-57-80-1S-CV5  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 1S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

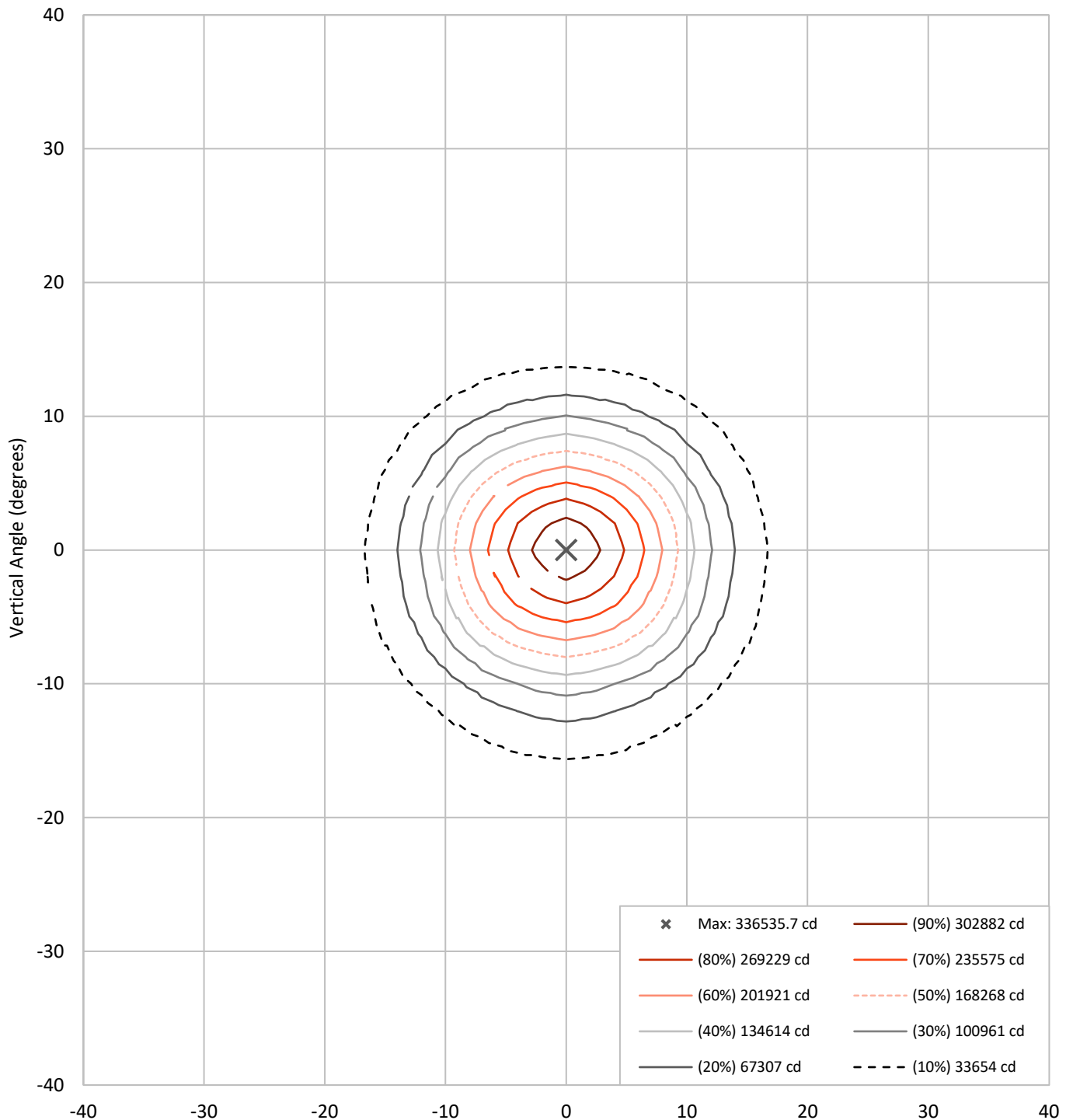
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	34599.1 lumens	Max Intensity:	336535.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	100.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.6°H x 15.4°V	Field Angle (10%):	33.2°H x 29.1°V
Beam Lumens:	15956.7 lumens	Field Lumens:	29438.4 lumens
Beam Efficiency:	46.1%	Field Efficiency:	85.1%

Input Watts (W): 343.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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-08-0320N-57-80-1S-CV5

### Iso-Candela Plot





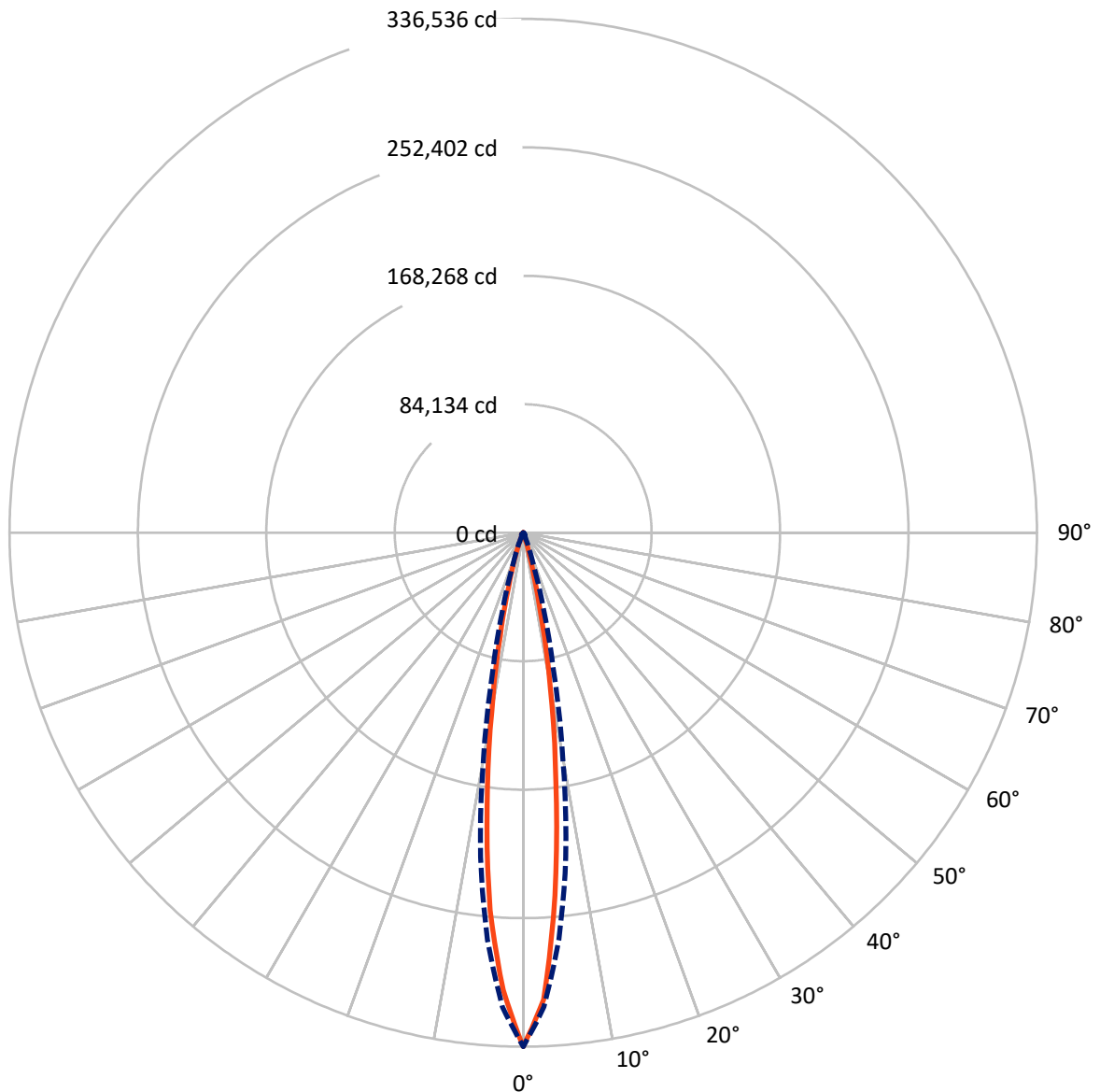
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### Lumen Table

90	0.1		0.2		0.4		0.4		0.5		0.4		0.4		0.2		0.1		
80	0.1		0.2		0.4		0.4		0.5		0.4		0.4		0.2		0.1		
70	0.1	0.1	0.1	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.1	0.1	0.1			
60		0.1	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.1				
50	0.2	0.1	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.1	0.2			
40		0.2	0.4	0.5	0.9	1.3	1.3	1.5	1.5	1.3	1.3	0.9	0.5	0.4	0.2				
30	0.2	0.3	0.9	2.0	3.9	4.4	6.2	12.5	12.5	6.2	4.4	3.9	2.0	0.9	0.3	0.2			
20		0.7	2.8	9.4	17.6	23.4	173.5	722.5	722.5	173.5	23.4	17.6	9.4	2.8	0.7				
10	0.2	1.1	5.6	23.8	38.5	87.5	1272.7	5514.8	5514.8	1272.7	87.5	38.5	23.8	5.6	1.1	0.2			
0		1.4	6.5	27.4	45.1	89.6	1365.9	5764.2	5764.2	1365.9	89.6	45.1	27.4	6.5	1.4				
-10	0.3	1.5	5.7	20.7	37.2	41.0	291.3	1131.4	1131.4	291.3	41.0	37.2	20.7	5.7	1.5	0.3			
-20		1.5	4.9	11.6	30.0	34.7	38.2	74.5	74.5	38.2	34.7	30.0	11.6	4.9	1.5				
-30	0.3	1.3	4.2	7.4	18.3	34.7	40.5	40.9	40.9	40.5	34.7	18.3	7.4	4.2	1.3	0.3			
-40		0.9	3.1	6.3	9.9	17.5	29.5	38.8	38.8	29.5	17.5	9.9	6.3	3.1	0.9				
-50	0.2	0.4	1.7	4.1	7.4	10.3	12.1	13.5	13.5	12.1	10.3	7.4	4.1	1.7	0.4	0.2			
-60		0.2	0.6	1.7	3.3	5.1	6.8	8.0	8.0	6.8	5.1	3.3	1.7	0.6	0.2				
-70	0.1	0.6		1.5		3.6		6.1		3.6		1.5		0.6		0.1			
-80		0.6		1.5		3.6		6.1		3.6		1.5		0.6					
-90	0.1		0.6		1.5		3.6		6.1		3.6		1.5		0.6		0.1		

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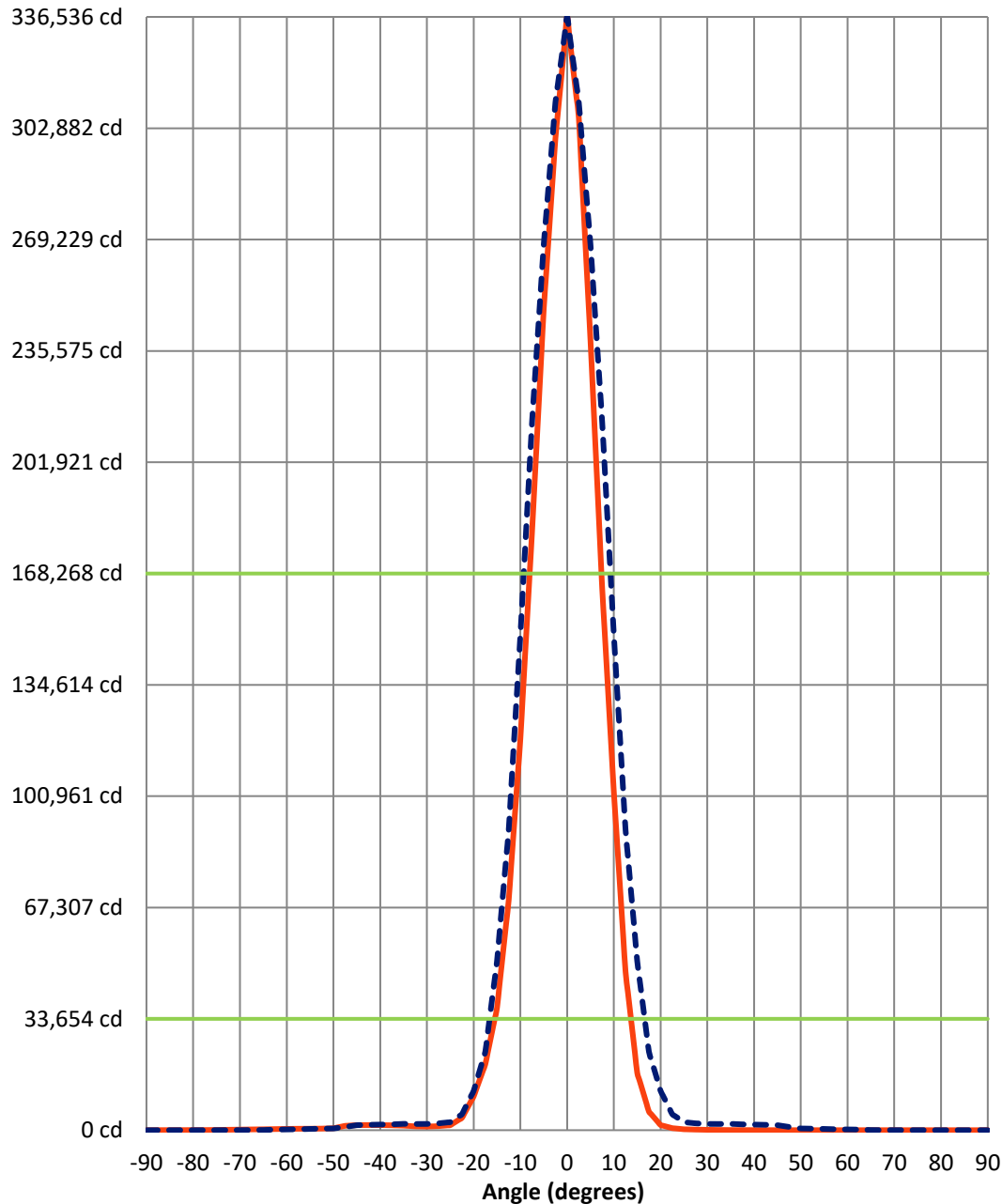
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 18.6°  
 V Angle: 15.4°  
 Lumens: 15956.7  
 Efficiency: 46.1%

**Field:**  
 H Angle: 33.2°  
 V Angle: 29.1°  
 Lumens: 29438.4  
 Efficiency: 85.1%

**Spill:**  
 Lumens: 5160.7  
 Efficiency: 14.9%

— 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°	4.3	4.3	4.3	4.5	4.7	4.9	5.1	5.1	5.1	5.1	5.1
87.5°	4.3	4.3	4.3	4.3	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	4.3	4.3	4.3	4.3
82.5°	4.3	4.3	4.3	4.3	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	4.3	4.3	4.3	4.3
77.5°	4.3	4.3	4.3	4.3	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	4.4	4.3	4.3	4.3	4.4	4.3
72.5°	4.3	4.3	4.3	4.3	4.5	4.6	4.4	4.3	4.5	4.5	4.4
70°	4.3	4.3	4.3	4.3	4.6	4.7	4.5	4.5	4.6	4.6	4.7
67.5°	4.3	4.3	4.3	4.5	4.8	4.8	4.7	4.8	4.8	4.9	5.0
65°	4.3	4.3	4.3	4.7	5.0	5.0	4.9	5.0	5.1	5.3	5.3
62.5°	4.3	4.3	4.3	4.8	5.2	5.2	5.2	5.2	5.4	5.6	5.4
60°	4.3	4.3	4.3	5.0	5.4	5.4	5.4	5.5	5.7	5.7	5.6
57.5°	4.3	4.3	4.4	5.2	5.5	5.6	5.7	5.8	6.0	6.0	5.9
55°	4.3	4.3	4.5	5.4	5.7	5.8	6.0	6.1	6.2	6.2	6.3
52.5°	4.3	4.3	4.6	5.6	5.8	6.0	6.3	6.5	6.5	6.6	6.8
50°	4.3	4.3	4.7	5.8	6.0	6.3	6.7	6.8	6.8	7.0	7.8
47.5°	4.3	4.3	4.8	5.9	6.1	6.6	7.0	7.3	7.1	7.4	8.9
45°	4.3	4.3	4.9	6.0	6.3	6.9	7.4	7.7	7.6	8.2	9.9
42.5°	4.3	4.3	5.0	6.2	6.4	7.2	7.9	8.3	8.2	9.1	10.9
40°	4.3	4.3	5.0	6.2	6.6	7.5	8.3	8.8	9.0	9.9	11.8
37.5°	4.3	4.3	5.1	6.2	6.9	7.8	8.8	9.4	10.0	11.0	12.5
35°	4.3	4.3	5.1	6.2	7.1	8.2	9.3	10.0	10.9	12.2	13.0
32.5°	4.3	4.3	5.2	6.3	7.4	8.6	9.8	10.7	11.9	13.6	14.5
30°	4.3	4.3	5.2	6.3	7.6	9.0	10.4	11.4	12.8	15.0	16.1
27.5°	4.3	4.3	5.2	6.3	7.7	9.4	10.9	12.2	13.9	16.5	17.9
25°	4.3	4.3	5.3	6.3	7.7	9.8	11.5	13.0	15.1	18.1	19.9
22.5°	4.3	4.3	5.3	6.3	7.7	10.1	12.0	13.7	16.4	19.7	23.0
20°	4.3	4.3	5.3	6.3	7.7	10.0	12.6	14.5	17.7	21.4	26.3
17.5°	4.3	4.3	5.3	6.2	7.6	10.0	12.7	15.2	19.0	23.2	29.7
15°	4.3	4.3	5.3	6.2	7.6	9.9	12.5	15.5	20.3	25.0	33.3
12.5°	4.3	4.3	5.2	6.2	7.5	9.7	12.2	15.3	20.9	26.8	36.9
10°	4.3	4.3	5.2	6.2	7.4	9.5	11.9	15.0	20.8	27.6	40.4
7.5°	4.3	4.3	5.2	6.1	7.2	9.3	11.6	14.7	20.7	28.3	43.5
5°	4.3	4.3	5.2	6.1	7.1	9.1	11.2	14.4	20.5	29.0	46.7
2.5°	4.3	4.3	5.1	6.1	7.0	8.9	10.7	14.1	20.1	29.6	49.6
0°	4.3	4.3	5.1	6.0	6.8	8.6	10.3	13.7	19.7	30.0	52.2
-2.5°	4.3	4.3	5.1	6.0	6.9	8.7	10.7	15.2	23.2	35.9	60.3
-5°	4.3	4.3	5.1	6.0	6.9	8.7	11.2	16.5	26.5	41.5	67.9
-7.5°	4.3	4.4	5.1	6.0	7.0	8.8	11.5	17.7	29.6	46.7	74.8
-10°	4.3	4.4	5.1	6.0	7.0	8.8	11.8	18.8	32.2	51.3	80.9
-12.5°	4.3	4.4	5.1	5.9	7.1	8.8	12.1	19.7	34.4	55.5	86.7
-15°	4.3	4.4	5.1	5.9	7.1	8.8	12.2	20.3	36.6	59.7	91.7
-17.5°	4.3	4.4	5.0	5.9	7.1	8.8	12.3	21.2	39.0	63.2	95.6
-20°	4.3	4.4	5.0	5.8	7.1	8.8	12.4	22.3	40.7	66.0	98.3



REPORT NUMBER: P731428 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-CV5

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.3	4.4	5.0	5.8	7.0	8.7	12.8	22.9	41.7	67.9	99.8
-25°	4.3	4.5	5.0	5.7	7.0	8.8	12.9	23.0	41.9	69.0	99.9
-27.5°	4.3	4.5	5.0	5.7	6.9	8.9	12.8	22.5	41.4	69.2	100.8
-30°	4.3	4.5	5.0	5.6	6.8	8.9	12.5	21.5	40.6	68.4	100.5
-32.5°	4.3	4.5	5.0	5.6	6.8	8.9	11.9	20.8	39.3	66.4	99.0
-35°	4.3	4.5	5.0	5.5	6.7	8.9	11.7	20.2	37.2	63.3	96.4
-37.5°	4.3	4.5	5.0	5.4	6.7	8.8	11.6	19.1	34.2	59.0	89.1
-40°	4.3	4.5	5.0	5.4	6.6	8.7	11.4	17.6	30.3	54.5	80.7
-42.5°	4.3	4.5	5.0	5.3	6.5	8.6	11.2	15.7	27.3	47.8	71.4
-45°	4.3	4.5	5.0	5.3	6.5	8.4	10.9	14.3	24.7	40.4	61.6
-47.5°	4.3	4.5	5.0	5.3	6.5	8.2	10.4	13.8	21.6	32.4	52.6
-50°	4.3	4.5	5.0	5.3	6.4	8.0	10.1	13.2	17.6	27.9	43.0
-52.5°	4.3	4.5	5.0	5.3	6.4	7.8	9.8	12.5	15.7	23.1	33.4
-55°	4.3	4.5	5.0	5.3	6.3	7.6	9.5	11.7	14.5	18.1	27.7
-57.5°	4.3	4.5	5.0	5.4	6.2	7.5	9.1	11.2	13.4	15.9	21.7
-60°	4.3	4.5	5.0	5.4	6.1	7.3	8.7	10.6	12.3	14.6	17.0
-62.5°	4.3	4.5	5.0	5.4	6.0	7.1	8.4	10.0	11.5	13.2	15.4
-65°	4.3	4.5	4.9	5.3	5.9	6.9	8.2	9.4	10.8	12.2	13.8
-67.5°	4.3	4.4	4.9	5.3	5.9	6.7	7.9	9.0	10.0	11.4	12.7
-70°	4.3	4.4	4.8	5.3	5.8	6.5	7.5	8.6	9.5	10.5	11.7
-72.5°	4.3	4.4	4.8	5.2	5.7	6.3	7.2	8.1	9.0	9.9	10.8
-75°	4.3	4.4	4.7	5.1	5.5	6.1	6.8	7.6	8.5	9.3	10.1
-77.5°	4.3	4.4	4.6	5.0	5.4	5.8	6.4	7.1	7.8	8.7	9.5
-80°	4.3	4.4	4.6	4.9	5.3	5.6	6.0	6.6	7.1	7.8	8.5
-82.5°	4.3	4.4	4.5	4.8	5.1	5.5	5.8	6.1	6.4	6.9	7.5
-85°	4.3	4.3	4.4	4.7	5.0	5.3	5.6	5.8	6.0	6.2	6.5
-87.5°	4.3	4.3	4.4	4.6	4.8	5.1	5.3	5.4	5.5	5.7	5.8
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3





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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°	5.1	5.1	5.1	5.1	5.3	5.6	5.8	6.0	6.0	6.0	6.0
87.5°	4.1	3.9	3.6	3.4	3.2	3.0	2.8	2.6	2.6	2.6	2.6
85°	4.1	3.9	3.6	3.4	3.2	3.1	3.0	2.9	2.9	2.8	2.7
82.5°	4.1	3.9	3.6	3.4	3.4	3.4	3.4	3.4	3.2	3.0	2.8
80°	4.1	3.9	3.8	3.7	3.7	3.7	3.6	3.4	3.2	3.1	3.0
77.5°	4.2	4.1	4.1	4.2	4.1	4.0	3.9	3.9	3.8	3.8	3.6
75°	4.3	4.3	4.4	4.3	4.2	4.2	4.3	4.3	4.2	4.1	4.1
72.5°	4.4	4.5	4.5	4.4	4.3	4.3	4.3	4.3	4.8	5.6	6.2
70°	4.8	4.8	4.6	4.4	4.3	4.5	5.5	6.7	7.9	9.0	10.5
67.5°	5.0	4.9	4.7	4.6	5.3	6.4	7.7	10.9	14.7	16.3	16.9
65°	5.1	4.9	5.1	5.8	6.7	9.0	12.4	16.9	21.7	22.5	22.0
62.5°	5.1	5.4	5.9	7.1	9.0	12.0	16.4	21.4	26.9	26.9	23.5
60°	5.5	5.9	7.2	9.1	11.3	14.7	19.8	23.6	27.5	29.1	22.2
57.5°	6.0	6.9	8.9	11.3	14.1	16.5	19.2	22.9	24.5	24.5	18.1
55°	6.8	8.3	10.8	13.8	15.8	15.3	17.1	18.4	18.7	17.4	12.6
52.5°	8.1	9.9	13.0	15.6	16.0	14.4	13.4	14.0	13.2	11.2	9.8
50°	9.4	11.9	15.1	16.7	15.8	12.9	10.7	10.7	10.1	9.3	8.4
47.5°	10.9	13.8	16.7	17.4	14.5	12.3	10.3	9.6	9.2	8.8	8.0
45°	12.3	15.1	18.2	16.3	14.0	12.8	11.2	9.4	9.4	9.2	9.1
42.5°	13.4	16.1	17.4	15.3	15.0	14.0	12.7	11.0	10.3	10.7	11.0
40°	14.2	16.9	16.7	16.7	16.4	15.9	15.0	13.6	12.2	13.1	13.6
37.5°	14.7	16.7	17.2	19.1	18.5	18.3	17.7	17.9	16.8	16.3	18.4
35°	15.0	17.1	20.1	22.3	22.0	21.3	22.4	23.1	22.7	22.0	25.3
32.5°	15.5	18.0	23.7	26.1	27.0	26.5	27.9	29.2	30.6	32.3	37.5
30°	17.1	21.3	27.8	30.4	33.1	36.1	35.4	36.5	40.3	52.5	63.8
27.5°	20.4	25.6	31.9	36.1	40.9	48.0	49.6	47.7	59.4	78.8	99.0
25°	24.1	38.6	36.3	42.9	52.4	62.3	67.7	71.8	87.8	116.1	137.3
22.5°	31.4	55.7	55.4	50.4	65.5	78.8	91.6	120.0	160.4	173.2	177.5
20°	44.0	72.8	78.2	79.9	85.1	97.3	119.0	185.8	266.4	296.8	264.3
17.5°	58.8	91.5	103.4	116.4	132.3	135.9	154.4	264.9	398.4	444.0	444.2
15°	75.4	111.6	130.1	156.5	182.6	199.1	260.6	394.1	541.2	613.5	654.7
12.5°	93.1	132.6	158.1	199.3	235.4	264.4	398.7	611.6	748.4	811.5	931.8
10°	111.4	154.2	186.7	243.9	289.9	330.9	553.9	843.6	976.8	1038.6	1176.1
7.5°	129.6	174.4	214.7	289.4	345.2	398.0	719.2	1083.3	1197.3	1252.4	1364.4
5°	147.1	192.3	236.9	324.0	389.0	452.9	869.1	1322.2	1410.9	1455.4	1518.6
2.5°	163.2	209.2	258.1	355.0	424.1	487.5	934.3	1427.0	1524.4	1591.1	1644.9
0°	177.2	225.1	278.2	383.5	457.1	519.6	981.9	1513.5	1616.3	1695.9	1760.9
-2.5°	177.9	228.4	284.8	382.3	449.8	514.5	936.5	1493.9	1647.8	1767.3	1864.8
-5°	176.2	230.4	289.6	378.7	440.7	506.8	876.7	1447.1	1654.2	1781.4	1881.1
-7.5°	172.7	230.9	292.4	372.0	427.2	487.2	824.4	1351.2	1579.4	1688.4	1794.2
-10°	168.1	229.6	288.2	356.5	407.7	460.4	758.0	1239.8	1502.8	1596.4	1694.6
-12.5°	164.1	226.9	282.0	341.3	388.0	432.8	671.1	1117.3	1426.8	1508.3	1586.7
-15°	159.4	223.4	275.1	327.0	368.4	405.0	562.6	987.6	1352.6	1444.1	1504.7
-17.5°	154.4	219.1	267.5	314.6	349.4	377.4	434.1	831.8	1228.9	1368.5	1439.4
-20°	149.4	214.2	259.6	304.5	331.6	358.0	395.9	673.0	1036.2	1277.2	1367.8



REPORT NUMBER: P731428 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	144.8	208.8	251.8	294.2	322.0	345.5	375.8	518.5	832.6	1173.9	1283.3
-25°	143.1	200.3	244.2	284.2	315.0	333.6	355.1	388.7	644.5	969.0	1188.2
-27.5°	142.6	193.3	235.3	273.7	309.5	323.5	340.0	365.6	496.6	758.7	1071.1
-30°	140.4	183.3	225.5	262.6	298.7	317.9	328.2	348.5	383.6	584.9	841.2
-32.5°	133.9	172.6	213.7	250.9	285.9	314.5	322.4	339.5	365.4	423.0	630.9
-35°	125.8	162.5	201.0	238.2	272.8	304.6	322.4	332.4	349.8	377.2	470.6
-37.5°	118.1	151.6	187.8	224.3	258.1	290.3	321.3	330.2	341.8	361.4	397.0
-40°	109.2	140.0	174.9	209.6	242.3	274.1	304.6	330.5	337.5	357.3	382.2
-42.5°	99.0	128.8	161.6	194.0	224.5	255.7	286.5	315.5	342.7	356.3	375.5
-45°	87.8	116.2	147.5	176.5	205.0	235.5	265.5	295.7	330.8	362.4	375.3
-47.5°	75.7	102.4	131.6	157.7	184.3	212.6	242.6	274.4	309.7	344.7	380.8
-50°	63.3	87.9	113.3	138.0	162.4	188.4	216.0	249.5	283.2	318.1	353.2
-52.5°	51.9	72.5	95.3	118.0	140.4	163.2	189.7	220.0	252.5	286.0	317.1
-55°	39.8	58.2	76.7	97.7	118.7	138.9	162.4	189.7	217.8	248.7	276.9
-57.5°	31.0	43.8	59.7	76.8	96.2	115.8	137.2	159.1	184.1	210.0	233.3
-60°	23.9	32.3	43.8	58.2	73.1	91.6	111.7	131.6	151.8	170.9	190.8
-62.5°	17.6	24.2	31.5	40.8	53.7	67.4	84.5	102.8	121.2	137.4	151.9
-65°	15.9	17.7	22.8	29.2	35.4	47.5	60.4	73.3	89.1	103.3	116.4
-67.5°	14.1	15.7	17.4	19.9	25.6	32.0	38.6	49.8	61.1	70.9	80.7
-70°	12.8	13.9	15.2	16.7	18.2	21.1	26.7	32.5	38.3	45.1	53.7
-72.5°	11.7	12.6	13.5	14.4	15.7	17.3	18.9	20.6	24.0	28.6	33.3
-75°	10.8	11.4	12.2	13.0	13.8	14.8	15.8	17.2	18.5	19.7	20.8
-77.5°	10.0	10.4	11.0	11.6	12.2	12.9	13.7	14.5	15.4	16.3	17.3
-80°	9.0	9.4	9.7	10.1	10.6	11.1	11.6	12.2	12.6	13.0	13.6
-82.5°	7.8	8.1	8.4	8.7	8.9	9.2	9.5	9.8	10.0	10.1	10.3
-85°	6.7	6.8	7.0	7.2	7.4	7.5	7.7	7.9	7.8	7.8	7.7
-87.5°	5.9	5.9	6.0	6.1	6.2	6.4	6.5	6.6	6.4	6.3	6.2
-90°	4.1	3.9	3.6	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°	6.0	6.0	6.0	6.0	6.0	8.3	10.7	13.0	15.4	21.2	26.9
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	1.7	1.7	1.6	1.6	1.5	1.3
82.5°	2.6	2.5	2.4	2.4	2.4	2.2	2.1	1.9	1.7	1.5	1.3
80°	2.9	2.8	2.8	2.7	2.6	2.4	2.2	1.9	1.7	1.7	1.7
77.5°	3.5	3.4	3.2	3.0	2.7	2.5	2.5	2.4	2.4	2.3	2.1
75°	4.2	4.2	4.1	3.9	3.5	3.4	3.4	3.4	3.3	3.1	2.9
72.5°	6.8	6.9	6.6	6.3	5.9	5.6	5.7	5.6	5.5	5.4	5.3
70°	11.3	11.5	11.1	10.2	9.0	8.1	7.7	7.3	6.8	6.9	7.3
67.5°	16.4	15.2	14.0	12.6	10.8	9.4	8.7	8.0	7.2	6.8	6.6
65°	19.9	15.7	13.4	11.8	10.8	9.8	8.7	7.7	6.7	6.1	5.8
62.5°	18.9	13.4	11.0	9.9	9.0	8.3	7.2	6.2	5.4	4.8	4.8
60°	16.3	11.2	8.6	7.7	6.8	6.0	5.5	5.0	4.6	4.4	4.6
57.5°	12.7	8.8	6.7	6.4	6.0	5.4	5.1	4.9	4.6	4.3	4.6
55°	9.3	7.7	6.8	6.6	6.4	6.1	5.8	5.4	5.1	4.8	5.0
52.5°	8.0	7.6	7.5	7.4	6.9	6.4	6.0	5.9	5.8	5.7	5.8
50°	7.8	7.8	7.8	7.6	7.2	6.9	6.7	6.7	6.6	6.5	6.6
47.5°	8.0	8.2	8.1	7.7	7.6	7.7	7.7	7.6	7.8	7.9	8.0
45°	8.8	9.1	9.2	9.3	9.0	9.3	9.3	9.3	10.7	10.8	10.2
42.5°	10.7	11.9	12.7	12.4	11.3	13.6	16.9	18.4	16.9	14.7	13.3
40°	15.2	16.7	17.3	18.4	23.0	26.4	23.2	20.0	18.6	19.8	20.7
37.5°	21.3	23.2	28.7	35.6	33.0	26.9	27.5	27.8	27.2	29.0	29.2
35°	31.2	40.0	46.6	44.4	41.3	40.7	42.2	42.7	38.6	40.4	41.1
32.5°	50.0	60.7	61.1	58.4	60.0	60.2	64.4	61.6	58.1	59.8	64.6
30°	72.1	82.7	86.6	81.6	72.6	77.6	81.9	80.6	83.2	90.5	98.2
27.5°	106.7	113.6	120.0	110.1	92.1	100.0	103.0	99.9	117.0	126.2	144.4
25°	148.0	155.8	160.9	152.5	140.1	133.7	143.4	150.7	171.5	191.9	220.4
22.5°	193.1	214.0	220.0	198.3	198.2	198.2	201.9	226.7	254.7	299.6	374.8
20°	245.5	287.1	320.4	298.4	270.1	289.2	312.7	343.1	423.0	626.3	857.4
17.5°	431.4	402.3	463.5	465.5	424.9	469.3	554.1	663.1	1000.3	2037.2	2716.9
15°	734.1	703.3	665.2	667.2	707.3	794.6	968.0	1571.7	3061.1	5274.0	7561.1
12.5°	1043.0	997.0	940.9	926.1	1013.6	1189.3	2007.2	4491.5	7998.4	11817.5	21613.9
10°	1286.9	1262.3	1210.6	1249.3	1395.5	1911.4	3584.1	7893.1	15129.6	27781.8	43393.3
7.5°	1430.0	1420.6	1434.5	1547.9	1786.3	3144.8	6822.4	13227.5	25152.4	44325.2	72450.8
5°	1573.6	1581.4	1623.7	1779.6	2084.7	4000.1	9629.0	18381.3	36418.9	64601.8	108156.2
2.5°	1732.8	1739.9	1796.7	1993.0	2342.1	4133.8	10296.9	21663.5	46176.0	83108.1	140842.4
0°	1915.9	1874.8	1891.9	2070.8	2431.3	4821.4	11883.2	23756.1	51105.1	90795.2	149681.2
-2.5°	1980.9	1893.0	1876.9	2028.1	2344.0	4272.6	10615.2	22090.8	46938.9	83179.8	139572.9
-5°	1936.8	1816.7	1768.6	1892.2	2192.1	3746.5	8925.6	20101.1	41674.5	71156.3	118268.7
-7.5°	1827.1	1712.0	1641.1	1734.1	1996.0	3087.2	6837.0	15221.9	30334.3	52647.9	84015.3
-10°	1732.9	1622.5	1514.6	1544.4	1725.7	2298.0	4256.3	9970.6	20041.4	35538.8	53414.6
-12.5°	1651.4	1558.9	1397.2	1348.1	1449.7	1718.3	2970.6	6795.9	12819.4	20159.9	32690.5
-15°	1567.1	1491.3	1329.8	1252.1	1288.3	1419.2	1758.4	3264.2	7019.3	11948.2	17346.2
-17.5°	1473.5	1421.5	1324.5	1209.6	1160.5	1213.1	1375.2	1840.2	3119.4	6191.2	9557.0
-20°	1410.1	1381.2	1310.0	1209.2	1146.1	1121.8	1178.0	1320.4	1634.6	2811.9	4261.9



REPORT NUMBER: P731428 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	1330.8	1318.8	1270.7	1241.9	1195.7	1143.5	1094.3	1138.4	1242.7	1403.2	1904.2
-25°	1255.7	1258.6	1261.8	1299.8	1292.3	1219.5	1126.0	1059.0	1094.1	1144.4	1245.9
-27.5°	1172.6	1213.9	1277.9	1349.4	1382.5	1320.9	1210.7	1110.4	1080.5	1051.1	1093.9
-30°	1099.6	1183.6	1252.2	1339.5	1396.8	1378.4	1321.5	1253.9	1180.6	1129.6	1112.9
-32.5°	911.3	1144.2	1207.6	1277.8	1363.3	1390.5	1384.0	1358.0	1326.6	1290.7	1253.5
-35°	708.2	966.7	1179.4	1219.8	1275.7	1356.3	1419.7	1424.2	1420.1	1406.9	1396.9
-37.5°	500.2	746.2	970.3	1150.2	1217.2	1271.0	1368.1	1442.4	1484.7	1481.3	1482.2
-40°	415.4	483.1	708.6	916.5	1070.6	1214.2	1291.8	1389.0	1466.2	1497.7	1521.7
-42.5°	400.7	426.9	453.9	609.9	808.2	982.1	1115.8	1239.2	1348.3	1426.1	1487.8
-45°	390.3	408.2	428.5	454.4	482.3	637.7	810.4	971.1	1076.0	1181.0	1290.7
-47.5°	390.0	394.3	408.8	427.0	444.7	469.9	498.8	537.9	654.2	759.6	871.0
-50°	378.3	396.0	400.8	406.4	417.7	431.6	445.2	459.3	472.5	480.9	492.2
-52.5°	343.9	366.7	388.1	404.7	409.0	413.2	417.1	426.3	435.1	442.5	450.9
-55°	302.4	326.5	350.0	369.2	386.4	402.6	414.7	416.7	419.4	422.6	427.8
-57.5°	257.4	280.9	303.1	323.2	342.0	359.6	372.2	381.6	390.4	398.7	409.5
-60°	211.1	231.9	252.2	271.6	290.2	307.9	319.5	329.1	337.3	345.5	356.7
-62.5°	165.8	181.7	200.0	217.6	233.7	248.9	261.0	271.2	279.7	288.3	298.6
-65°	128.9	140.7	154.3	167.1	179.0	193.1	206.1	216.8	225.4	233.8	243.1
-67.5°	92.0	103.0	115.7	127.5	138.7	149.4	160.3	170.6	180.1	189.7	199.3
-70°	61.5	69.2	78.4	88.5	98.9	108.7	118.0	127.0	135.6	144.1	152.3
-72.5°	38.1	43.0	48.1	54.8	61.8	68.6	75.3	81.9	88.5	96.2	103.8
-75°	21.8	23.7	27.6	31.3	34.8	38.1	41.0	43.5	45.5	50.0	55.0
-77.5°	18.3	19.2	20.2	21.3	22.3	23.7	25.2	26.9	28.5	32.2	36.2
-80°	14.2	14.8	15.6	16.3	17.1	18.1	19.2	20.3	21.3	24.0	26.8
-82.5°	10.5	10.8	11.1	11.4	11.6	12.4	13.3	14.1	14.9	17.2	19.4
-85°	7.7	7.8	7.9	8.0	8.1	8.8	9.5	10.2	10.9	13.1	15.3
-87.5°	6.0	6.0	6.0	6.0	6.0	6.8	7.5	8.2	8.8	11.2	13.5
-90°	2.6	2.4	2.2	1.9	1.7	1.5	1.3	1.1	0.9	0.9	0.9



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	32.7	38.5	32.5	26.5	32.5	38.5	32.7	26.9	21.2	15.4	13.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
85°	1.1	0.9	0.9	0.9	0.9	0.9	1.1	1.3	1.5	1.6	1.6
82.5°	1.1	0.9	1.3	1.7	1.3	0.9	1.1	1.3	1.5	1.7	1.9
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9
77.5°	1.9	1.7	1.7	1.7	1.7	1.7	1.9	2.1	2.3	2.4	2.4
75°	2.8	2.6	2.6	2.6	2.6	2.6	2.8	2.9	3.1	3.3	3.4
72.5°	5.2	5.1	5.1	5.1	5.1	5.1	5.2	5.3	5.4	5.5	5.6
70°	7.9	8.4	8.6	8.6	8.6	8.4	7.9	7.3	6.9	6.8	7.3
67.5°	6.4	6.1	6.0	6.0	6.0	6.1	6.4	6.6	6.8	7.2	8.0
65°	5.5	5.2	5.1	5.1	5.1	5.2	5.5	5.8	6.1	6.7	7.7
62.5°	4.9	5.1	5.1	5.1	5.1	5.1	4.9	4.8	4.8	5.4	6.2
60°	4.8	5.0	5.1	5.1	5.1	5.0	4.8	4.6	4.4	4.6	5.0
57.5°	4.8	5.0	5.1	5.1	5.1	5.0	4.8	4.6	4.3	4.6	4.9
55°	5.1	5.1	5.4	6.0	5.4	5.1	5.1	5.0	4.8	5.1	5.4
52.5°	5.9	5.9	6.0	6.0	6.0	5.9	5.9	5.8	5.7	5.8	5.9
50°	6.7	6.7	6.8	6.8	6.8	6.7	6.7	6.6	6.5	6.6	6.7
47.5°	8.3	8.5	8.6	8.6	8.6	8.5	8.3	8.0	7.9	7.8	7.6
45°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.2	10.8	10.7	9.3
42.5°	13.8	14.2	14.5	14.6	14.5	14.2	13.8	13.3	14.7	16.9	18.4
40°	21.8	22.1	21.9	21.4	21.9	22.1	21.8	20.7	19.8	18.6	20.0
37.5°	29.6	30.2	30.6	30.8	30.6	30.2	29.6	29.2	29.0	27.2	27.8
35°	41.5	41.9	41.7	42.8	41.7	41.9	41.5	41.1	40.4	38.6	42.7
32.5°	67.7	68.1	66.0	66.8	66.0	68.1	67.7	64.6	59.8	58.1	61.6
30°	103.6	108.4	111.3	114.7	111.3	108.4	103.6	98.2	90.5	83.2	80.6
27.5°	157.7	169.4	177.0	181.5	177.0	169.4	157.7	144.4	126.2	117.0	99.9
25°	246.3	264.0	273.6	280.8	273.6	264.0	246.3	220.4	191.9	171.5	150.7
22.5°	478.5	546.1	583.9	619.8	583.9	546.1	478.5	374.8	299.6	254.7	226.7
20°	1226.9	1305.9	1454.8	1546.9	1454.8	1305.9	1226.9	857.4	626.3	423.0	343.1
17.5°	4133.0	5269.2	5481.3	5641.5	5481.3	5269.2	4133.0	2716.9	2037.2	1000.3	663.1
15°	12308.1	15680.3	16587.8	17360.3	16587.8	15680.3	12308.1	7561.1	5274.0	3061.1	1571.7
12.5°	29717.1	38998.2	44046.3	47881.6	44046.3	38998.2	29717.1	21613.9	11817.5	7998.4	4491.5
10°	62261.5	80431.9	94223.3	102210.1	94223.3	80431.9	62261.5	43393.3	27781.8	15129.6	7893.1
7.5°	106028.9	136826.1	154828.9	163992.6	154828.9	136826.1	106028.9	72450.8	44325.2	25152.4	13227.5
5°	159921.4	199677.5	224802.4	238617.9	224802.4	199677.5	159921.4	108156.2	64601.8	36418.9	18381.3
2.5°	199757.0	250760.3	288421.7	306136.9	288421.7	250760.3	199757.0	140842.4	83108.1	46176.0	21663.5
0°	214180.8	267691.0	310743.9	336535.7	310743.9	267691.0	214180.8	149681.2	90795.2	51105.1	23756.1
-2.5°	200411.5	250646.0	284178.2	299782.3	284178.2	250646.0	200411.5	139572.9	83179.8	46938.9	22090.8
-5°	170421.5	213852.8	237949.9	248150.3	237949.9	213852.8	170421.5	118268.7	71156.3	41674.5	20101.1
-7.5°	120911.0	154040.7	170977.1	181024.6	170977.1	154040.7	120911.0	84015.3	52647.9	30334.3	15221.9
-10°	76125.2	94749.4	110950.1	118278.7	110950.1	94749.4	76125.2	53414.6	35538.8	20041.4	9970.6
-12.5°	44209.5	56000.7	65480.0	69506.8	65480.0	56000.7	44209.5	32690.5	20159.9	12819.4	6795.9
-15°	24431.4	30875.0	35239.3	36946.5	35239.3	30875.0	24431.4	17346.2	11948.2	7019.3	3264.2
-17.5°	13585.8	16712.6	17953.0	19942.3	17953.0	16712.6	13585.8	9557.0	6191.2	3119.4	1840.2
-20°	6655.8	8277.1	8796.9	10200.1	8796.9	8277.1	6655.8	4261.9	2811.9	1634.6	1320.4



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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°	2585.4	2968.0	3053.3	3718.8	3053.3	2968.0	2585.4	1904.2	1403.2	1242.7	1138.4
-25°	1342.7	1407.2	1437.1	1515.3	1437.1	1407.2	1342.7	1245.9	1144.4	1094.1	1059.0
-27.5°	1128.7	1159.9	1184.8	1222.5	1184.8	1159.9	1128.7	1093.9	1051.1	1080.5	1110.4
-30°	1100.0	1094.5	1095.3	1099.2	1095.3	1094.5	1100.0	1112.9	1129.6	1180.6	1253.9
-32.5°	1223.9	1204.9	1195.4	1160.0	1195.4	1204.9	1223.9	1253.5	1290.7	1326.6	1358.0
-35°	1390.9	1389.3	1390.5	1374.0	1390.5	1389.3	1390.9	1396.9	1406.9	1420.1	1424.2
-37.5°	1482.7	1485.4	1488.7	1483.6	1488.7	1485.4	1482.7	1482.2	1481.3	1484.7	1442.4
-40°	1530.0	1537.8	1543.2	1541.8	1543.2	1537.8	1530.0	1521.7	1497.7	1466.2	1389.0
-42.5°	1518.7	1537.8	1547.2	1550.4	1547.2	1537.8	1518.7	1487.8	1426.1	1348.3	1239.2
-45°	1391.0	1468.9	1515.9	1528.9	1515.9	1468.9	1391.0	1290.7	1181.0	1076.0	971.1
-47.5°	996.4	1111.8	1220.0	1314.9	1220.0	1111.8	996.4	871.0	759.6	654.2	537.9
-50°	506.2	519.3	545.9	584.7	545.9	519.3	506.2	492.2	480.9	472.5	459.3
-52.5°	459.1	466.6	474.0	481.1	474.0	466.6	459.1	450.9	442.5	435.1	426.3
-55°	432.6	437.3	440.7	443.4	440.7	437.3	432.6	427.8	422.6	419.4	416.7
-57.5°	418.8	426.5	433.0	438.3	433.0	426.5	418.8	409.5	398.7	390.4	381.6
-60°	366.5	374.9	382.8	389.5	382.8	374.9	366.5	356.7	345.5	337.3	329.1
-62.5°	307.5	315.0	322.7	329.6	322.7	315.0	307.5	298.6	288.3	279.7	271.2
-65°	251.3	258.5	264.9	270.5	264.9	258.5	251.3	243.1	233.8	225.4	216.8
-67.5°	208.3	216.5	224.6	232.0	224.6	216.5	208.3	199.3	189.7	180.1	170.6
-70°	159.8	166.5	172.2	177.2	172.2	166.5	159.8	152.3	144.1	135.6	127.0
-72.5°	110.8	117.1	124.3	131.0	124.3	117.1	110.8	103.8	96.2	88.5	81.9
-75°	59.8	64.3	68.7	72.8	68.7	64.3	59.8	55.0	50.0	45.5	43.5
-77.5°	40.1	44.1	47.0	49.7	47.0	44.1	40.1	36.2	32.2	28.5	26.9
-80°	29.6	32.3	34.6	36.8	34.6	32.3	29.6	26.8	24.0	21.3	20.3
-82.5°	21.7	23.9	25.7	27.4	25.7	23.9	21.7	19.4	17.2	14.9	14.1
-85°	17.5	19.7	21.4	23.1	21.4	19.7	17.5	15.3	13.1	10.9	10.2
-87.5°	15.8	18.1	19.3	20.5	19.3	18.1	15.8	13.5	11.2	8.8	8.2
-90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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°	10.7	8.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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°	1.7	1.7	1.7	1.9	2.2	2.4	2.6	2.7	2.8	2.9	2.9
82.5°	2.1	2.2	2.4	2.4	2.4	2.5	2.6	2.8	3.0	3.2	3.4
80°	2.2	2.4	2.6	2.7	2.8	2.8	2.9	3.0	3.1	3.2	3.4
77.5°	2.5	2.5	2.7	3.0	3.2	3.4	3.5	3.6	3.8	3.8	3.9
75°	3.4	3.4	3.5	3.9	4.1	4.2	4.2	4.1	4.1	4.2	4.3
72.5°	5.7	5.6	5.9	6.3	6.6	6.9	6.8	6.2	5.6	4.8	4.3
70°	7.7	8.1	9.0	10.2	11.1	11.5	11.3	10.5	9.0	7.9	6.7
67.5°	8.7	9.4	10.8	12.6	14.0	15.2	16.4	16.9	16.3	14.7	10.9
65°	8.7	9.8	10.8	11.8	13.4	15.7	19.9	22.0	22.5	21.7	16.9
62.5°	7.2	8.3	9.0	9.9	11.0	13.4	18.9	23.5	26.9	26.9	21.4
60°	5.5	6.0	6.8	7.7	8.6	11.2	16.3	22.2	29.1	27.5	23.6
57.5°	5.1	5.4	6.0	6.4	6.7	8.8	12.7	18.1	24.5	24.5	22.9
55°	5.8	6.1	6.4	6.6	6.8	7.7	9.3	12.6	17.4	18.7	18.4
52.5°	6.0	6.4	6.9	7.4	7.5	7.6	8.0	9.8	11.2	13.2	14.0
50°	6.7	6.9	7.2	7.6	7.8	7.8	7.8	8.4	9.3	10.1	10.7
47.5°	7.7	7.7	7.6	7.7	8.1	8.2	8.0	8.0	8.8	9.2	9.6
45°	9.3	9.3	9.0	9.3	9.2	9.1	8.8	9.1	9.2	9.4	9.4
42.5°	16.9	13.6	11.3	12.4	12.7	11.9	10.7	11.0	10.7	10.3	11.0
40°	23.2	26.4	23.0	18.4	17.3	16.7	15.2	13.6	13.1	12.2	13.6
37.5°	27.5	26.9	33.0	35.6	28.7	23.2	21.3	18.4	16.3	16.8	17.9
35°	42.2	40.7	41.3	44.4	46.6	40.0	31.2	25.3	22.0	22.7	23.1
32.5°	64.4	60.2	60.0	58.4	61.1	60.7	50.0	37.5	32.3	30.6	29.2
30°	81.9	77.6	72.6	81.6	86.6	82.7	72.1	63.8	52.5	40.3	36.5
27.5°	103.0	100.0	92.1	110.1	120.0	113.6	106.7	99.0	78.8	59.4	47.7
25°	143.4	133.7	140.1	152.5	160.9	155.8	148.0	137.3	116.1	87.8	71.8
22.5°	201.9	198.2	198.2	198.3	220.0	214.0	193.1	177.5	173.2	160.4	120.0
20°	312.7	289.2	270.1	298.4	320.4	287.1	245.5	264.3	296.8	266.4	185.8
17.5°	554.1	469.3	424.9	465.5	463.5	402.3	431.4	444.2	444.0	398.4	264.9
15°	968.0	794.6	707.3	667.2	665.2	703.3	734.1	654.7	613.5	541.2	394.1
12.5°	2007.2	1189.3	1013.6	926.1	940.9	997.0	1043.0	931.8	811.5	748.4	611.6
10°	3584.1	1911.4	1395.5	1249.3	1210.6	1262.3	1286.9	1176.1	1038.6	976.8	843.6
7.5°	6822.4	3144.8	1786.3	1547.9	1434.5	1420.6	1430.0	1364.4	1252.4	1197.3	1083.3
5°	9629.0	4000.1	2084.7	1779.6	1623.7	1581.4	1573.6	1518.6	1455.4	1410.9	1322.2
2.5°	10296.9	4133.8	2342.1	1993.0	1796.7	1739.9	1732.8	1644.9	1591.1	1524.4	1427.0
0°	11883.2	4821.4	2431.3	2070.8	1891.9	1874.8	1915.9	1760.9	1695.9	1616.3	1513.5
-2.5°	10615.2	4272.6	2344.0	2028.1	1876.9	1893.0	1980.9	1864.8	1767.3	1647.8	1493.9
-5°	8925.6	3746.5	2192.1	1892.2	1768.6	1816.7	1936.8	1881.1	1781.4	1654.2	1447.1
-7.5°	6837.0	3087.2	1996.0	1734.1	1641.1	1712.0	1827.1	1794.2	1688.4	1579.4	1351.2
-10°	4256.3	2298.0	1725.7	1544.4	1514.6	1622.5	1732.9	1694.6	1596.4	1502.8	1239.8
-12.5°	2970.6	1718.3	1449.7	1348.1	1397.2	1558.9	1651.4	1586.7	1508.3	1426.8	1117.3
-15°	1758.4	1419.2	1288.3	1252.1	1329.8	1491.3	1567.1	1504.7	1444.1	1352.6	987.6
-17.5°	1375.2	1213.1	1160.5	1209.6	1324.5	1421.5	1473.5	1439.4	1368.5	1228.9	831.8
-20°	1178.0	1121.8	1146.1	1209.2	1310.0	1381.2	1410.1	1367.8	1277.2	1036.2	673.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1094.3	1143.5	1195.7	1241.9	1270.7	1318.8	1330.8	1283.3	1173.9	832.6	518.5
-25°	1126.0	1219.5	1292.3	1299.8	1261.8	1258.6	1255.7	1188.2	969.0	644.5	388.7
-27.5°	1210.7	1320.9	1382.5	1349.4	1277.9	1213.9	1172.6	1071.1	758.7	496.6	365.6
-30°	1321.5	1378.4	1396.8	1339.5	1252.2	1183.6	1099.6	841.2	584.9	383.6	348.5
-32.5°	1384.0	1390.5	1363.3	1277.8	1207.6	1144.2	911.3	630.9	423.0	365.4	339.5
-35°	1419.7	1356.3	1275.7	1219.8	1179.4	966.7	708.2	470.6	377.2	349.8	332.4
-37.5°	1368.1	1271.0	1217.2	1150.2	970.3	746.2	500.2	397.0	361.4	341.8	330.2
-40°	1291.8	1214.2	1070.6	916.5	708.6	483.1	415.4	382.2	357.3	337.5	330.5
-42.5°	1115.8	982.1	808.2	609.9	453.9	426.9	400.7	375.5	356.3	342.7	315.5
-45°	810.4	637.7	482.3	454.4	428.5	408.2	390.3	375.3	362.4	330.8	295.7
-47.5°	498.8	469.9	444.7	427.0	408.8	394.3	390.0	380.8	344.7	309.7	274.4
-50°	445.2	431.6	417.7	406.4	400.8	396.0	378.3	353.2	318.1	283.2	249.5
-52.5°	417.1	413.2	409.0	404.7	388.1	366.7	343.9	317.1	286.0	252.5	220.0
-55°	414.7	402.6	386.4	369.2	350.0	326.5	302.4	276.9	248.7	217.8	189.7
-57.5°	372.2	359.6	342.0	323.2	303.1	280.9	257.4	233.3	210.0	184.1	159.1
-60°	319.5	307.9	290.2	271.6	252.2	231.9	211.1	190.8	170.9	151.8	131.6
-62.5°	261.0	248.9	233.7	217.6	200.0	181.7	165.8	151.9	137.4	121.2	102.8
-65°	206.1	193.1	179.0	167.1	154.3	140.7	128.9	116.4	103.3	89.1	73.3
-67.5°	160.3	149.4	138.7	127.5	115.7	103.0	92.0	80.7	70.9	61.1	49.8
-70°	118.0	108.7	98.9	88.5	78.4	69.2	61.5	53.7	45.1	38.3	32.5
-72.5°	75.3	68.6	61.8	54.8	48.1	43.0	38.1	33.3	28.6	24.0	20.6
-75°	41.0	38.1	34.8	31.3	27.6	23.7	21.8	20.8	19.7	18.5	17.2
-77.5°	25.2	23.7	22.3	21.3	20.2	19.2	18.3	17.3	16.3	15.4	14.5
-80°	19.2	18.1	17.1	16.3	15.6	14.8	14.2	13.6	13.0	12.6	12.2
-82.5°	13.3	12.4	11.6	11.4	11.1	10.8	10.5	10.3	10.1	10.0	9.8
-85°	9.5	8.8	8.1	8.0	7.9	7.8	7.7	7.7	7.8	7.8	7.9
-87.5°	7.5	6.8	6.0	6.0	6.0	6.0	6.0	6.2	6.3	6.4	6.6
-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°	5.8	5.6	5.3	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.3	4.3	4.3	4.3
85°	3.0	3.1	3.2	3.4	3.6	3.9	4.1	4.3	4.3	4.3	4.3
82.5°	3.4	3.4	3.4	3.4	3.6	3.9	4.1	4.3	4.3	4.3	4.3
80°	3.6	3.7	3.7	3.7	3.8	3.9	4.1	4.3	4.3	4.3	4.3
77.5°	3.9	4.0	4.1	4.2	4.1	4.1	4.2	4.3	4.3	4.3	4.3
75°	4.3	4.2	4.2	4.3	4.4	4.3	4.3	4.3	4.4	4.3	4.3
72.5°	4.3	4.3	4.3	4.4	4.5	4.5	4.4	4.4	4.5	4.5	4.3
70°	5.5	4.5	4.3	4.4	4.6	4.8	4.8	4.7	4.6	4.6	4.5
67.5°	7.7	6.4	5.3	4.6	4.7	4.9	5.0	5.0	4.9	4.8	4.8
65°	12.4	9.0	6.7	5.8	5.1	4.9	5.1	5.3	5.3	5.1	5.0
62.5°	16.4	12.0	9.0	7.1	5.9	5.4	5.1	5.4	5.6	5.4	5.2
60°	19.8	14.7	11.3	9.1	7.2	5.9	5.5	5.6	5.7	5.7	5.5
57.5°	19.2	16.5	14.1	11.3	8.9	6.9	6.0	5.9	6.0	6.0	5.8
55°	17.1	15.3	15.8	13.8	10.8	8.3	6.8	6.3	6.2	6.2	6.1
52.5°	13.4	14.4	16.0	15.6	13.0	9.9	8.1	6.8	6.6	6.5	6.5
50°	10.7	12.9	15.8	16.7	15.1	11.9	9.4	7.8	7.0	6.8	6.8
47.5°	10.3	12.3	14.5	17.4	16.7	13.8	10.9	8.9	7.4	7.1	7.3
45°	11.2	12.8	14.0	16.3	18.2	15.1	12.3	9.9	8.2	7.6	7.7
42.5°	12.7	14.0	15.0	15.3	17.4	16.1	13.4	10.9	9.1	8.2	8.3
40°	15.0	15.9	16.4	16.7	16.7	16.9	14.2	11.8	9.9	9.0	8.8
37.5°	17.7	18.3	18.5	19.1	17.2	16.7	14.7	12.5	11.0	10.0	9.4
35°	22.4	21.3	22.0	22.3	20.1	17.1	15.0	13.0	12.2	10.9	10.0
32.5°	27.9	26.5	27.0	26.1	23.7	18.0	15.5	14.5	13.6	11.9	10.7
30°	35.4	36.1	33.1	30.4	27.8	21.3	17.1	16.1	15.0	12.8	11.4
27.5°	49.6	48.0	40.9	36.1	31.9	25.6	20.4	17.9	16.5	13.9	12.2
25°	67.7	62.3	52.4	42.9	36.3	38.6	24.1	19.9	18.1	15.1	13.0
22.5°	91.6	78.8	65.5	50.4	55.4	55.7	31.4	23.0	19.7	16.4	13.7
20°	119.0	97.3	85.1	79.9	78.2	72.8	44.0	26.3	21.4	17.7	14.5
17.5°	154.4	135.9	132.3	116.4	103.4	91.5	58.8	29.7	23.2	19.0	15.2
15°	260.6	199.1	182.6	156.5	130.1	111.6	75.4	33.3	25.0	20.3	15.5
12.5°	398.7	264.4	235.4	199.3	158.1	132.6	93.1	36.9	26.8	20.9	15.3
10°	553.9	330.9	289.9	243.9	186.7	154.2	111.4	40.4	27.6	20.8	15.0
7.5°	719.2	398.0	345.2	289.4	214.7	174.4	129.6	43.5	28.3	20.7	14.7
5°	869.1	452.9	389.0	324.0	236.9	192.3	147.1	46.7	29.0	20.5	14.4
2.5°	934.3	487.5	424.1	355.0	258.1	209.2	163.2	49.6	29.6	20.1	14.1
0°	981.9	519.6	457.1	383.5	278.2	225.1	177.2	52.2	30.0	19.7	13.7
-2.5°	936.5	514.5	449.8	382.3	284.8	228.4	177.9	60.3	35.9	23.2	15.2
-5°	876.7	506.8	440.7	378.7	289.6	230.4	176.2	67.9	41.5	26.5	16.5
-7.5°	824.4	487.2	427.2	372.0	292.4	230.9	172.7	74.8	46.7	29.6	17.7
-10°	758.0	460.4	407.7	356.5	288.2	229.6	168.1	80.9	51.3	32.2	18.8
-12.5°	671.1	432.8	388.0	341.3	282.0	226.9	164.1	86.7	55.5	34.4	19.7
-15°	562.6	405.0	368.4	327.0	275.1	223.4	159.4	91.7	59.7	36.6	20.3
-17.5°	434.1	377.4	349.4	314.6	267.5	219.1	154.4	95.6	63.2	39.0	21.2
-20°	395.9	358.0	331.6	304.5	259.6	214.2	149.4	98.3	66.0	40.7	22.3



REPORT NUMBER: P731428 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-CV5

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	375.8	345.5	322.0	294.2	251.8	208.8	144.8	99.8	67.9	41.7	22.9
-25°	355.1	333.6	315.0	284.2	244.2	200.3	143.1	99.9	69.0	41.9	23.0
-27.5°	340.0	323.5	309.5	273.7	235.3	193.3	142.6	100.8	69.2	41.4	22.5
-30°	328.2	317.9	298.7	262.6	225.5	183.3	140.4	100.5	68.4	40.6	21.5
-32.5°	322.4	314.5	285.9	250.9	213.7	172.6	133.9	99.0	66.4	39.3	20.8
-35°	322.4	304.6	272.8	238.2	201.0	162.5	125.8	96.4	63.3	37.2	20.2
-37.5°	321.3	290.3	258.1	224.3	187.8	151.6	118.1	89.1	59.0	34.2	19.1
-40°	304.6	274.1	242.3	209.6	174.9	140.0	109.2	80.7	54.5	30.3	17.6
-42.5°	286.5	255.7	224.5	194.0	161.6	128.8	99.0	71.4	47.8	27.3	15.7
-45°	265.5	235.5	205.0	176.5	147.5	116.2	87.8	61.6	40.4	24.7	14.3
-47.5°	242.6	212.6	184.3	157.7	131.6	102.4	75.7	52.6	32.4	21.6	13.8
-50°	216.0	188.4	162.4	138.0	113.3	87.9	63.3	43.0	27.9	17.6	13.2
-52.5°	189.7	163.2	140.4	118.0	95.3	72.5	51.9	33.4	23.1	15.7	12.5
-55°	162.4	138.9	118.7	97.7	76.7	58.2	39.8	27.7	18.1	14.5	11.7
-57.5°	137.2	115.8	96.2	76.8	59.7	43.8	31.0	21.7	15.9	13.4	11.2
-60°	111.7	91.6	73.1	58.2	43.8	32.3	23.9	17.0	14.6	12.3	10.6
-62.5°	84.5	67.4	53.7	40.8	31.5	24.2	17.6	15.4	13.2	11.5	10.0
-65°	60.4	47.5	35.4	29.2	22.8	17.7	15.9	13.8	12.2	10.8	9.4
-67.5°	38.6	32.0	25.6	19.9	17.4	15.7	14.1	12.7	11.4	10.0	9.0
-70°	26.7	21.1	18.2	16.7	15.2	13.9	12.8	11.7	10.5	9.5	8.6
-72.5°	18.9	17.3	15.7	14.4	13.5	12.6	11.7	10.8	9.9	9.0	8.1
-75°	15.8	14.8	13.8	13.0	12.2	11.4	10.8	10.1	9.3	8.5	7.6
-77.5°	13.7	12.9	12.2	11.6	11.0	10.4	10.0	9.5	8.7	7.8	7.1
-80°	11.6	11.1	10.6	10.1	9.7	9.4	9.0	8.5	7.8	7.1	6.6
-82.5°	9.5	9.2	8.9	8.7	8.4	8.1	7.8	7.5	6.9	6.4	6.1
-85°	7.7	7.5	7.4	7.2	7.0	6.8	6.7	6.5	6.2	6.0	5.8
-87.5°	6.5	6.4	6.2	6.1	6.0	5.9	5.9	5.8	5.7	5.5	5.4
-90°	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.3	4.3	4.3	4.3



REPORT NUMBER: P731428 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.1	4.9	4.7	4.5	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	4.4	4.3	4.3	4.3	4.3	4.3
72.5°	4.4	4.6	4.5	4.3	4.3	4.3	4.3
70°	4.5	4.7	4.6	4.3	4.3	4.3	4.3
67.5°	4.7	4.8	4.8	4.5	4.3	4.3	4.3
65°	4.9	5.0	5.0	4.7	4.3	4.3	4.3
62.5°	5.2	5.2	5.2	4.8	4.3	4.3	4.3
60°	5.4	5.4	5.4	5.0	4.3	4.3	4.3
57.5°	5.7	5.6	5.5	5.2	4.4	4.3	4.3
55°	6.0	5.8	5.7	5.4	4.5	4.3	4.3
52.5°	6.3	6.0	5.8	5.6	4.6	4.3	4.3
50°	6.7	6.3	6.0	5.8	4.7	4.3	4.3
47.5°	7.0	6.6	6.1	5.9	4.8	4.3	4.3
45°	7.4	6.9	6.3	6.0	4.9	4.3	4.3
42.5°	7.9	7.2	6.4	6.2	5.0	4.3	4.3
40°	8.3	7.5	6.6	6.2	5.0	4.3	4.3
37.5°	8.8	7.8	6.9	6.2	5.1	4.3	4.3
35°	9.3	8.2	7.1	6.2	5.1	4.3	4.3
32.5°	9.8	8.6	7.4	6.3	5.2	4.3	4.3
30°	10.4	9.0	7.6	6.3	5.2	4.3	4.3
27.5°	10.9	9.4	7.7	6.3	5.2	4.3	4.3
25°	11.5	9.8	7.7	6.3	5.3	4.3	4.3
22.5°	12.0	10.1	7.7	6.3	5.3	4.3	4.3
20°	12.6	10.0	7.7	6.3	5.3	4.3	4.3
17.5°	12.7	10.0	7.6	6.2	5.3	4.3	4.3
15°	12.5	9.9	7.6	6.2	5.3	4.3	4.3
12.5°	12.2	9.7	7.5	6.2	5.2	4.3	4.3
10°	11.9	9.5	7.4	6.2	5.2	4.3	4.3
7.5°	11.6	9.3	7.2	6.1	5.2	4.3	4.3
5°	11.2	9.1	7.1	6.1	5.2	4.3	4.3
2.5°	10.7	8.9	7.0	6.1	5.1	4.3	4.3
0°	10.3	8.6	6.8	6.0	5.1	4.3	4.3
-2.5°	10.7	8.7	6.9	6.0	5.1	4.3	4.3
-5°	11.2	8.7	6.9	6.0	5.1	4.3	4.3
-7.5°	11.5	8.8	7.0	6.0	5.1	4.4	4.3
-10°	11.8	8.8	7.0	6.0	5.1	4.4	4.3
-12.5°	12.1	8.8	7.1	5.9	5.1	4.4	4.3
-15°	12.2	8.8	7.1	5.9	5.1	4.4	4.3
-17.5°	12.3	8.8	7.1	5.9	5.0	4.4	4.3
-20°	12.4	8.8	7.1	5.8	5.0	4.4	4.3



REPORT NUMBER: P731428 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	12.8	8.7	7.0	5.8	5.0	4.4	4.3
-25°	12.9	8.8	7.0	5.7	5.0	4.5	4.3
-27.5°	12.8	8.9	6.9	5.7	5.0	4.5	4.3
-30°	12.5	8.9	6.8	5.6	5.0	4.5	4.3
-32.5°	11.9	8.9	6.8	5.6	5.0	4.5	4.3
-35°	11.7	8.9	6.7	5.5	5.0	4.5	4.3
-37.5°	11.6	8.8	6.7	5.4	5.0	4.5	4.3
-40°	11.4	8.7	6.6	5.4	5.0	4.5	4.3
-42.5°	11.2	8.6	6.5	5.3	5.0	4.5	4.3
-45°	10.9	8.4	6.5	5.3	5.0	4.5	4.3
-47.5°	10.4	8.2	6.5	5.3	5.0	4.5	4.3
-50°	10.1	8.0	6.4	5.3	5.0	4.5	4.3
-52.5°	9.8	7.8	6.4	5.3	5.0	4.5	4.3
-55°	9.5	7.6	6.3	5.3	5.0	4.5	4.3
-57.5°	9.1	7.5	6.2	5.4	5.0	4.5	4.3
-60°	8.7	7.3	6.1	5.4	5.0	4.5	4.3
-62.5°	8.4	7.1	6.0	5.4	5.0	4.5	4.3
-65°	8.2	6.9	5.9	5.3	4.9	4.5	4.3
-67.5°	7.9	6.7	5.9	5.3	4.9	4.4	4.3
-70°	7.5	6.5	5.8	5.3	4.8	4.4	4.3
-72.5°	7.2	6.3	5.7	5.2	4.8	4.4	4.3
-75°	6.8	6.1	5.5	5.1	4.7	4.4	4.3
-77.5°	6.4	5.8	5.4	5.0	4.6	4.4	4.3
-80°	6.0	5.6	5.3	4.9	4.6	4.4	4.3
-82.5°	5.8	5.5	5.1	4.8	4.5	4.4	4.3
-85°	5.6	5.3	5.0	4.7	4.4	4.3	4.3
-87.5°	5.3	5.1	4.8	4.6	4.4	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

