

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: P731331 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-1S-CV2**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731331 (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: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-80-1S-CV2  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

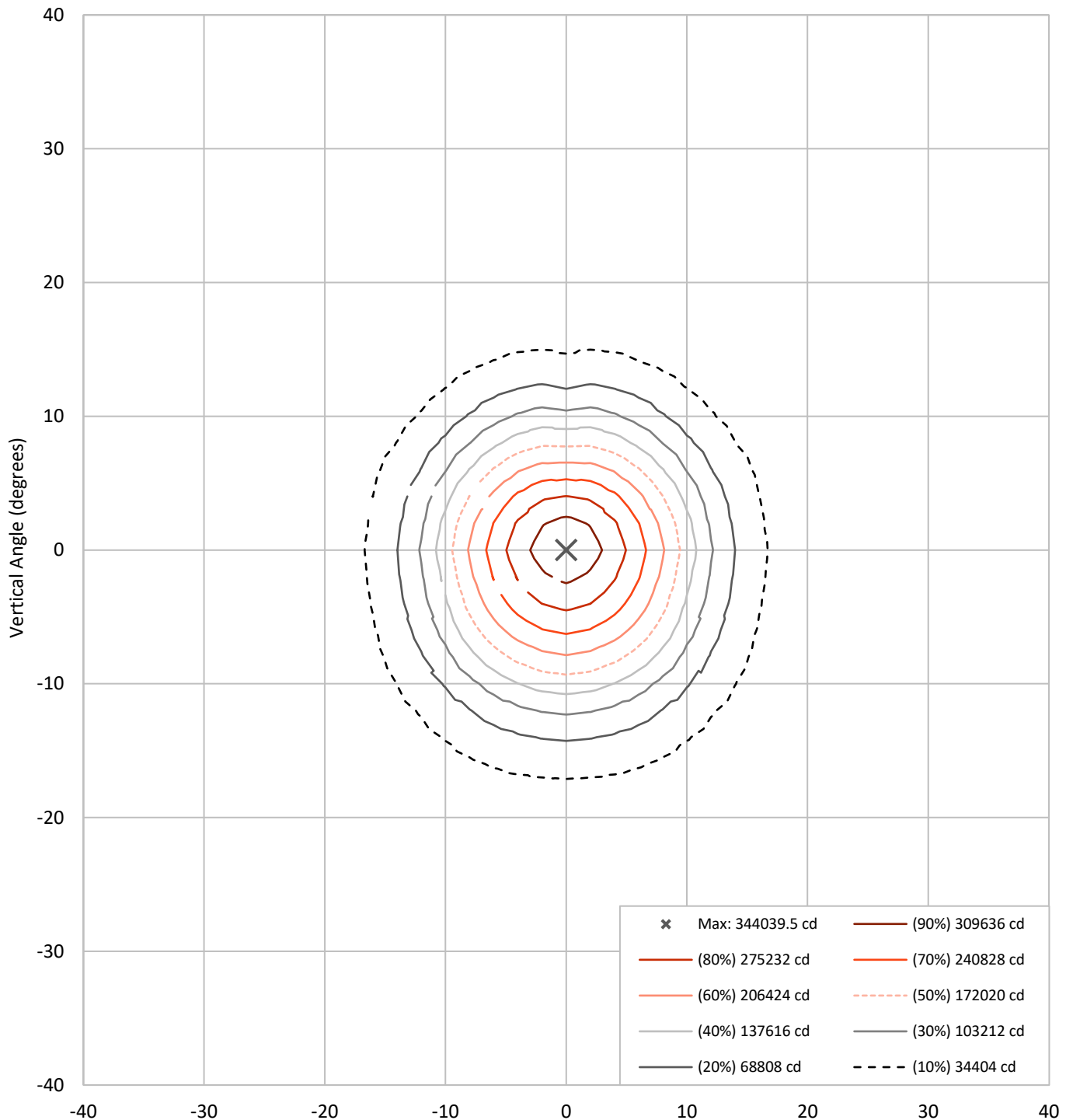
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	39664.8 lumens	Max Intensity:	344039.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	115.6 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:	18270.5 lumens	Field Lumens:	33584 lumens
Beam Efficiency:	46.1%	Field Efficiency:	84.7%

Input Watts (W): 343.2  
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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### Iso-Candela Plot





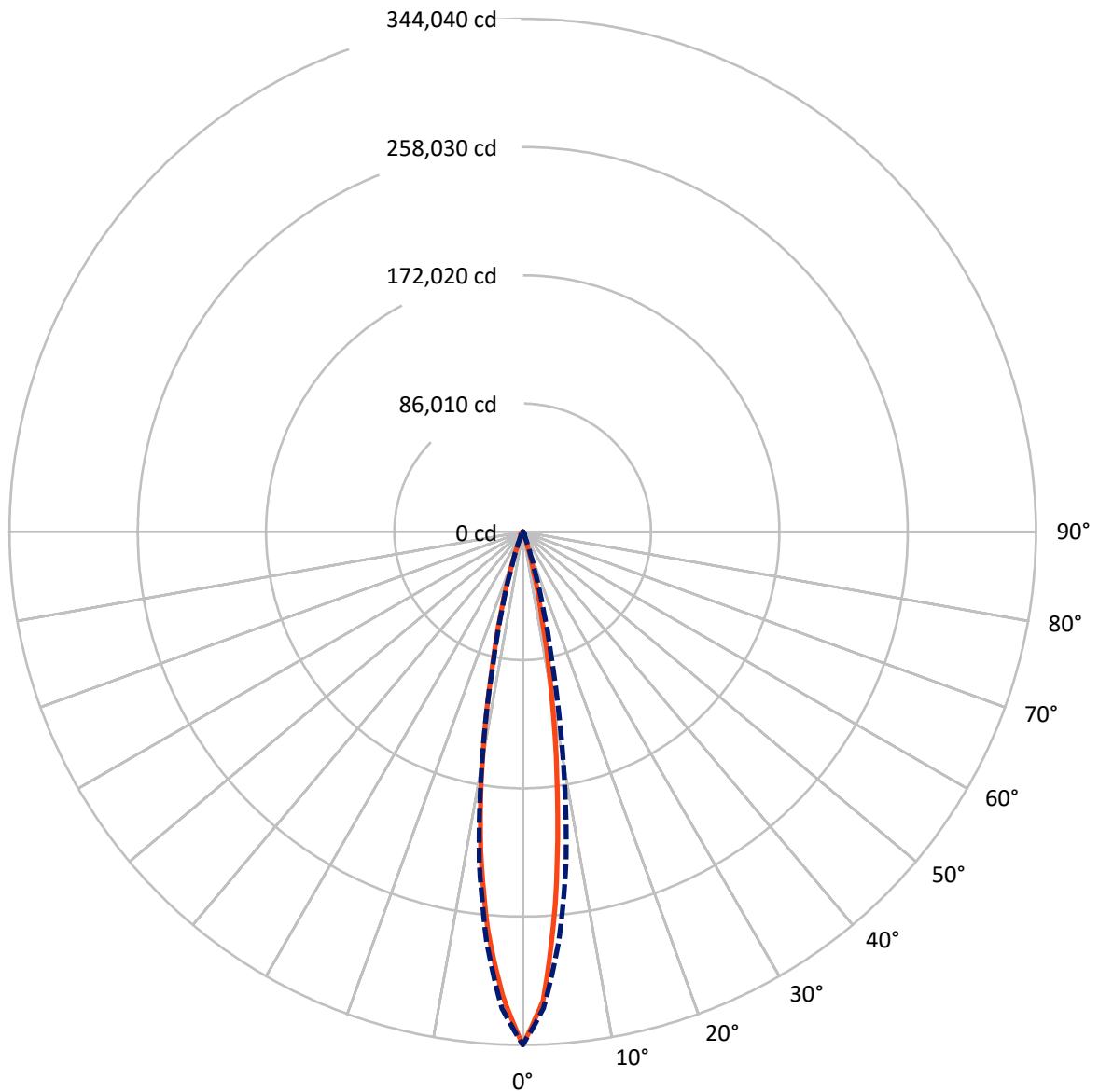
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### Lumen Table

90	0.1	0.2	0.3	0.3	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	0.3	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	0.1	0.1	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	0.4	0.9	1.9	3.0	3.2	3.7	3.7	3.2	3.0	1.9	0.9	0.4	0.1				
30	0.1	0.2	1.4	4.8	12.8	15.6	20.6	38.4	38.4	20.6	15.6	12.8	4.8	1.4	0.2	0.1			
20		0.5	3.1	12.5	27.3	38.4	261.9	1053.3	1053.3	261.9	38.4	27.3	12.5	3.1	0.5				
10	0.2	0.9	5.3	24.1	41.2	95.5	1368.6	5906.2	5906.2	1368.6	95.5	41.2	24.1	5.3	0.9	0.2			
0		1.5	6.9	28.5	47.6	94.8	1484.7	6321.2	6321.2	1484.7	94.8	47.6	28.5	6.9	1.5				
-10	0.3	1.7	7.2	26.8	50.7	59.6	430.6	1630.8	1630.8	430.6	59.6	50.7	26.8	7.2	1.7	0.3			
-20		1.6	6.2	14.8	38.7	48.0	58.5	108.2	108.2	58.5	48.0	38.7	14.8	6.2	1.6				
-30	0.2	1.4	4.7	8.7	21.5	40.9	48.9	50.7	50.7	48.9	40.9	21.5	8.7	4.7	1.4	0.2			
-40		0.9	3.2	6.9	11.0	20.0	36.5	50.4	50.4	36.5	20.0	11.0	6.9	3.2	0.9				
-50	0.1	0.4	1.8	4.6	8.4	12.0	14.9	16.7	16.7	14.9	12.0	8.4	4.6	1.8	0.4	0.1			
-60		0.2	0.6	2.1	4.5	7.3	10.2	12.1	12.1	10.2	7.3	4.5	2.1	0.6	0.2				
-70	0.1	0.4	1.8	4.6	8.4	12.0	14.9	16.7	16.7	14.9	12.0	8.4	4.6	1.8	0.4	0.1			
-80		0.2	0.6	2.1	4.5	7.3	10.2	12.1	12.1	10.2	7.3	4.5	2.1	0.6	0.2				
-90	0.1	0.5	1.6	4.0	5.9	4.0	1.6	0.5	0.1										

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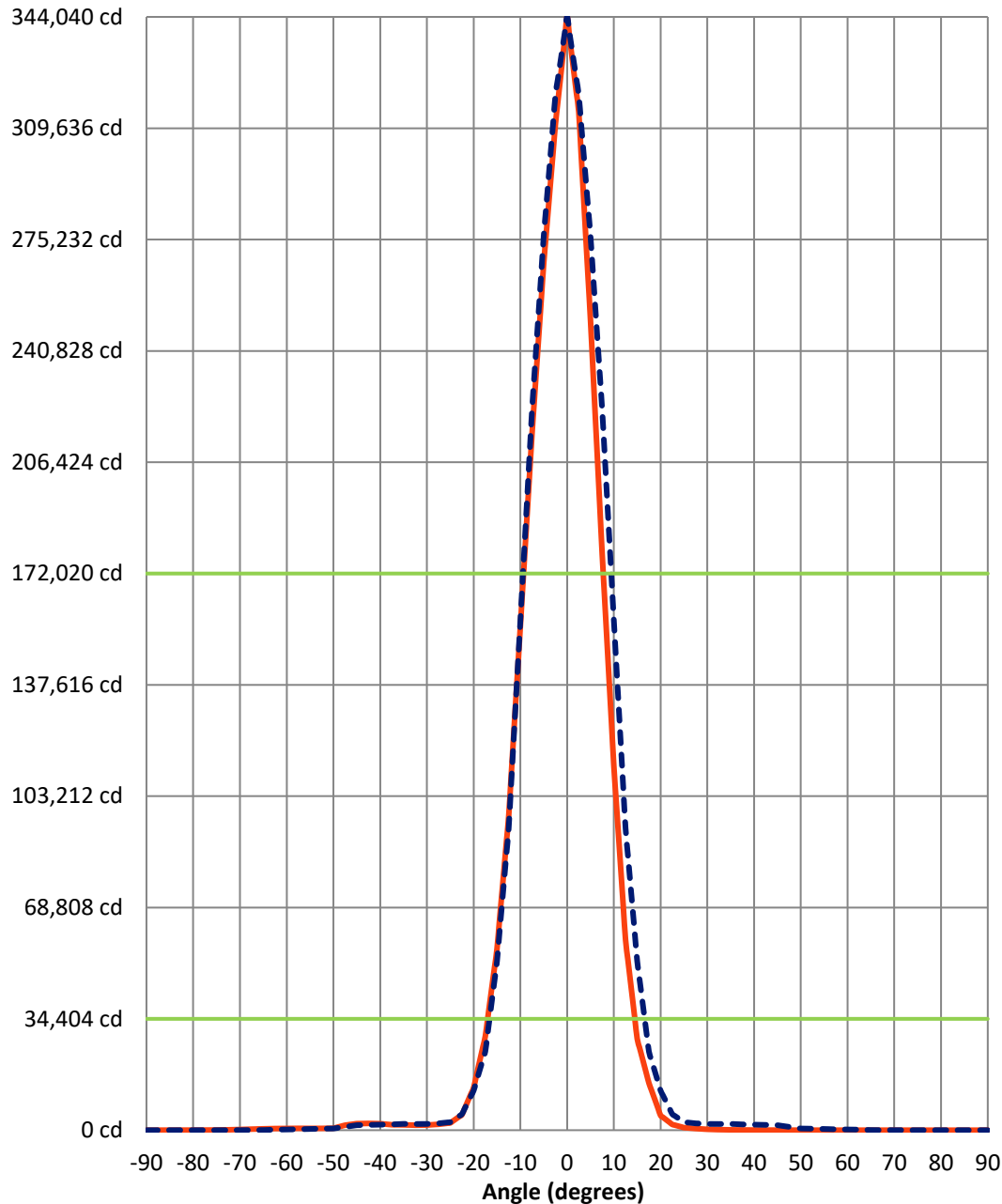
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 18.9°  
 V Angle: 17.1°  
 Lumens: 18270.5  
 Efficiency: 46.1%

**Field:**  
 H Angle: 33.2°  
 V Angle: 31.5°  
 Lumens: 33584  
 Efficiency: 84.7%

**Spill:**  
 Lumens: 6080.8  
 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°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.4	4.7	4.9	5.1
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.0	3.8	3.6	3.4
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.0	3.8	3.6	3.4
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.0	3.8	3.7	3.6
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.0	3.9	4.0
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.2
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.3	4.3
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.3	4.2	4.4	4.5	4.4
62.5°	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.4	4.6	4.6	4.4
60°	4.2	4.2	4.2	4.2	4.2	4.4	4.4	4.6	4.8	4.7	4.5
57.5°	4.2	4.2	4.2	4.2	4.3	4.5	4.5	4.9	4.9	4.7	4.5
55°	4.2	4.2	4.2	4.2	4.4	4.6	4.7	5.1	5.0	4.8	4.6
52.5°	4.2	4.2	4.2	4.2	4.5	4.7	4.9	5.1	5.0	4.8	4.6
50°	4.2	4.2	4.2	4.2	4.6	4.8	5.0	5.1	5.0	4.9	5.2
47.5°	4.2	4.2	4.2	4.2	4.7	4.9	5.1	5.1	5.1	4.9	5.7
45°	4.2	4.2	4.2	4.3	4.8	4.9	5.1	5.1	5.1	5.3	6.1
42.5°	4.2	4.2	4.2	4.4	4.9	5.0	5.1	5.1	5.2	5.6	6.7
40°	4.2	4.2	4.2	4.5	5.0	5.0	5.1	5.2	5.3	5.8	7.1
37.5°	4.2	4.2	4.2	4.5	5.0	5.1	5.1	5.3	5.5	6.1	7.5
35°	4.2	4.2	4.2	4.6	5.0	5.1	5.1	5.4	5.8	6.7	7.8
32.5°	4.2	4.2	4.2	4.7	5.1	5.1	5.1	5.5	6.0	7.5	8.7
30°	4.2	4.2	4.2	4.7	5.1	5.1	5.2	5.6	6.2	8.3	9.8
27.5°	4.2	4.2	4.2	4.8	5.1	5.1	5.3	5.8	6.6	9.2	11.1
25°	4.2	4.2	4.2	4.8	5.1	5.1	5.4	6.0	7.3	10.2	12.6
22.5°	4.2	4.2	4.2	4.9	5.1	5.1	5.5	6.1	8.0	11.3	14.8
20°	4.2	4.2	4.2	4.9	5.1	5.2	5.6	6.3	8.8	12.5	16.9
17.5°	4.2	4.2	4.2	5.0	5.1	5.2	5.7	6.5	9.5	13.7	19.0
15°	4.2	4.2	4.2	5.0	5.1	5.3	5.9	6.7	10.3	15.0	20.9
12.5°	4.2	4.2	4.2	5.0	5.1	5.4	6.1	7.0	11.1	16.3	22.8
10°	4.2	4.2	4.2	5.1	5.1	5.5	6.2	7.3	11.9	17.8	25.4
7.5°	4.2	4.2	4.2	5.1	5.1	5.6	6.4	7.6	12.6	19.4	30.2
5°	4.2	4.2	4.2	5.1	5.1	5.7	6.5	7.9	13.3	20.9	35.2
2.5°	4.2	4.2	4.2	5.1	5.1	5.8	6.7	8.2	13.9	22.4	40.1
0°	4.2	4.2	4.2	5.1	5.1	5.9	6.8	8.5	14.4	23.7	44.8
-2.5°	4.2	4.2	4.2	5.1	5.2	6.0	7.2	10.2	18.2	30.8	56.8
-5°	4.2	4.2	4.3	5.1	5.2	6.1	7.6	11.8	21.8	37.5	68.0
-7.5°	4.2	4.2	4.3	5.1	5.3	6.2	8.0	13.3	25.1	43.7	78.2
-10°	4.2	4.2	4.4	5.1	5.4	6.2	8.4	14.6	28.0	49.2	87.2
-12.5°	4.2	4.2	4.4	5.1	5.4	6.3	8.6	15.7	30.4	54.1	94.3
-15°	4.2	4.2	4.4	5.0	5.5	6.3	8.8	16.5	33.1	59.3	99.8
-17.5°	4.2	4.2	4.4	5.0	5.5	6.4	9.0	17.8	36.2	63.5	103.9
-20°	4.2	4.2	4.5	5.0	5.5	6.4	9.3	19.2	38.5	66.9	106.7



REPORT NUMBER: P731331 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-CV2

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.2	4.2	4.5	5.0	5.5	6.4	9.8	20.1	40.0	69.2	107.9
-25°	4.2	4.2	4.5	5.0	5.5	6.6	10.2	20.4	40.6	70.4	107.6
-27.5°	4.2	4.2	4.5	5.0	5.5	6.8	10.2	20.1	40.3	70.7	108.5
-30°	4.2	4.2	4.5	5.0	5.5	6.9	10.0	19.2	39.7	70.2	108.1
-32.5°	4.2	4.2	4.5	5.0	5.5	7.0	9.6	18.7	38.6	68.4	106.2
-35°	4.2	4.2	4.5	5.0	5.5	7.0	9.4	18.1	36.5	65.2	102.7
-37.5°	4.2	4.2	4.5	5.1	5.5	7.0	9.4	17.1	33.5	60.6	93.6
-40°	4.2	4.2	4.5	5.1	5.5	7.0	9.4	15.7	29.4	55.8	83.8
-42.5°	4.2	4.2	4.5	5.1	5.5	6.9	9.2	13.7	26.4	48.5	73.4
-45°	4.2	4.2	4.5	5.1	5.6	6.8	8.9	12.2	23.6	40.5	62.5
-47.5°	4.2	4.2	4.4	5.1	5.6	6.7	8.6	11.8	20.2	32.0	53.0
-50°	4.2	4.2	4.4	5.1	5.6	6.6	8.3	11.3	15.9	27.1	42.9
-52.5°	4.2	4.2	4.4	5.0	5.6	6.4	8.1	10.6	13.8	22.0	32.9
-55°	4.2	4.2	4.3	4.9	5.5	6.3	7.8	9.8	12.8	16.6	26.8
-57.5°	4.2	4.2	4.3	4.9	5.5	6.2	7.5	9.4	11.6	14.4	20.5
-60°	4.2	4.2	4.2	4.8	5.4	6.1	7.1	8.8	10.6	13.1	15.6
-62.5°	4.2	4.2	4.2	4.7	5.3	5.9	6.8	8.2	9.9	11.7	14.2
-65°	4.2	4.2	4.2	4.6	5.2	5.7	6.5	7.7	9.2	10.8	12.6
-67.5°	4.2	4.2	4.2	4.5	5.0	5.5	6.2	7.3	8.5	10.0	11.5
-70°	4.2	4.2	4.2	4.4	4.9	5.4	5.9	6.8	7.9	9.2	10.6
-72.5°	4.2	4.2	4.2	4.4	4.8	5.2	5.7	6.3	7.3	8.4	9.7
-75°	4.2	4.2	4.2	4.4	4.6	5.1	5.5	6.0	6.7	7.7	8.7
-77.5°	4.2	4.2	4.2	4.3	4.6	4.9	5.3	5.8	6.3	7.0	7.8
-80°	4.2	4.2	4.2	4.3	4.5	4.8	5.1	5.5	5.9	6.4	7.0
-82.5°	4.2	4.2	4.2	4.3	4.4	4.6	4.9	5.2	5.5	5.9	6.3
-85°	4.2	4.2	4.2	4.3	4.4	4.5	4.7	4.9	5.2	5.5	5.8
-87.5°	4.2	4.2	4.2	4.2	4.3	4.3	4.4	4.7	4.9	5.2	5.4
-90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.0	3.8	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°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	3.4	3.4	3.4	3.4	3.2	3.0	2.7	2.5	2.5	2.5	2.5
85°	3.4	3.4	3.4	3.4	3.2	3.0	2.7	2.5	2.5	2.5	2.5
82.5°	3.6	3.6	3.5	3.4	3.2	3.0	2.8	2.6	2.6	2.6	2.6
80°	3.9	3.8	3.6	3.4	3.3	3.2	3.2	3.2	3.2	3.0	2.8
77.5°	4.0	3.8	3.6	3.5	3.4	3.5	3.5	3.4	3.2	3.0	2.8
75°	4.1	3.9	3.8	3.8	3.8	3.8	3.7	3.5	3.3	3.2	3.2
72.5°	4.1	4.0	4.1	4.2	4.1	3.9	3.7	3.5	3.7	4.1	4.4
70°	4.2	4.2	4.2	4.2	4.1	4.0	4.2	4.8	5.5	6.3	7.8
67.5°	4.2	4.2	4.2	4.2	4.2	4.5	5.1	8.2	11.9	13.5	14.2
65°	4.2	4.2	4.2	4.2	4.2	6.5	10.0	14.3	18.9	19.7	19.2
62.5°	4.2	4.2	4.2	4.8	6.8	10.0	14.0	18.7	24.0	24.1	21.1
60°	4.3	4.2	5.0	7.0	9.3	12.4	17.0	20.7	24.7	26.4	20.2
57.5°	4.3	4.9	6.6	8.9	11.3	13.7	16.4	20.1	21.9	22.2	16.4
55°	4.7	6.0	8.1	10.6	12.5	12.4	14.4	16.1	16.7	15.8	11.3
52.5°	5.6	7.1	9.5	11.8	12.6	11.7	11.3	12.3	11.9	10.2	8.3
50°	6.3	8.3	10.7	12.7	12.6	10.8	9.1	9.7	9.2	8.0	6.8
47.5°	7.2	9.3	12.3	13.6	12.1	10.8	9.4	8.9	8.4	8.6	7.6
45°	7.9	10.4	13.7	13.4	12.4	11.9	10.8	9.2	10.8	11.0	10.7
42.5°	8.6	11.4	13.7	13.4	14.1	13.8	12.8	13.5	14.3	15.0	15.3
40°	9.2	12.1	13.9	15.9	16.2	16.1	17.5	18.7	18.8	20.0	21.0
37.5°	9.7	12.7	15.6	20.3	18.7	20.3	23.0	25.4	26.8	25.7	28.7
35°	9.9	13.8	21.1	26.0	24.6	25.9	30.2	35.0	39.7	36.9	42.2
32.5°	10.7	15.4	28.1	32.5	37.3	37.6	38.4	51.6	61.7	66.2	68.7
30°	12.6	21.8	36.0	40.1	55.2	58.3	57.8	74.2	92.8	137.3	171.4
27.5°	15.2	29.7	43.2	55.8	77.1	82.6	90.5	109.4	166.7	251.2	347.0
25°	17.8	40.0	51.2	77.1	100.8	112.1	125.6	154.1	270.0	459.6	529.0
22.5°	23.2	51.4	64.0	101.2	126.9	142.4	167.0	236.6	396.6	687.9	706.6
20°	32.1	62.1	82.7	124.1	155.5	172.5	208.2	322.1	537.4	749.6	832.2
17.5°	41.3	73.9	103.3	147.3	186.4	210.5	254.5	403.4	647.0	829.5	926.8
15°	50.9	86.6	122.2	172.8	220.1	258.2	346.0	513.3	723.1	923.8	1063.7
12.5°	60.5	99.9	139.6	200.0	256.3	305.8	456.6	695.0	889.1	1050.6	1235.4
10°	69.8	113.4	155.4	228.2	294.1	352.9	578.4	890.6	1082.0	1224.3	1386.4
7.5°	92.5	134.3	173.1	256.3	332.5	399.0	705.6	1093.2	1257.2	1373.1	1495.2
5°	118.1	162.1	207.0	298.1	374.2	443.1	829.4	1294.5	1418.0	1502.2	1578.0
2.5°	143.5	189.0	240.2	339.8	415.8	483.7	933.8	1425.6	1531.5	1611.5	1672.0
0°	167.3	214.7	272.2	378.6	454.7	521.5	1023.5	1536.6	1632.1	1712.4	1785.1
-2.5°	180.6	235.5	296.1	393.4	459.2	523.8	953.7	1498.7	1641.3	1748.4	1856.9
-5°	191.1	254.7	318.3	405.9	462.3	524.0	871.9	1433.4	1652.2	1785.5	1918.0
-7.5°	198.6	271.7	338.5	416.1	466.0	526.1	867.5	1456.6	1718.2	1838.9	1968.9
-10°	201.8	278.1	342.6	418.2	470.6	528.4	856.6	1445.8	1781.7	1894.5	2011.3
-12.5°	195.5	275.1	341.5	417.5	474.3	528.2	812.8	1397.5	1845.2	1955.4	2032.1
-15°	188.2	270.6	337.4	414.0	477.5	525.5	731.4	1309.1	1856.6	1927.4	2002.9
-17.5°	180.4	264.8	330.2	407.5	480.3	520.3	602.8	1086.1	1665.2	1835.1	1955.2
-20°	172.5	257.7	319.6	398.0	480.6	502.8	544.9	871.7	1359.7	1702.3	1860.5



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	165.0	249.5	307.6	385.2	448.8	476.6	507.3	672.8	1040.8	1531.4	1693.3
-25°	161.5	236.9	296.6	358.4	416.2	449.1	466.8	512.1	778.7	1208.8	1507.7
-27.5°	160.3	226.0	280.1	332.5	388.1	419.4	433.2	466.6	611.2	897.8	1301.6
-30°	157.1	209.4	262.7	309.1	360.2	390.5	401.7	431.2	480.7	688.4	981.2
-32.5°	147.6	192.2	243.4	289.1	333.5	368.4	383.4	410.2	445.8	509.2	719.4
-35°	135.9	177.6	223.4	268.3	309.1	347.2	373.7	393.0	417.2	449.3	552.4
-37.5°	125.5	162.3	203.3	246.7	286.0	325.1	362.7	380.3	399.3	423.8	467.0
-40°	114.1	146.4	185.1	224.6	263.1	301.2	337.7	369.5	384.6	409.9	439.5
-42.5°	101.8	132.8	167.0	202.6	239.3	275.3	311.4	345.3	377.9	397.8	421.6
-45°	89.5	118.2	148.9	182.1	214.9	248.7	282.4	317.3	357.5	392.4	409.8
-47.5°	76.4	102.9	131.8	161.3	191.6	222.0	252.8	290.3	330.6	368.3	404.8
-50°	63.3	87.7	114.3	142.0	169.0	196.4	224.4	263.5	302.4	339.2	374.1
-52.5°	51.6	71.8	96.9	123.1	147.9	172.2	201.0	236.7	273.8	310.2	343.4
-55°	39.4	57.8	78.7	103.3	128.0	150.2	178.0	210.6	244.1	279.0	311.7
-57.5°	30.3	43.8	61.8	82.1	105.7	130.2	157.1	184.3	214.9	246.5	275.4
-60°	23.0	32.3	45.6	62.7	81.3	105.6	134.7	161.6	187.3	212.6	239.6
-62.5°	16.5	23.9	32.8	44.2	60.2	79.0	103.6	131.3	161.1	183.0	204.3
-65°	14.9	17.0	23.1	31.3	39.7	55.3	73.8	94.6	119.6	141.9	164.6
-67.5°	13.2	15.2	17.2	20.4	27.8	36.1	44.9	61.4	79.6	95.1	111.2
-70°	12.0	13.4	15.2	17.0	18.9	22.6	30.0	37.6	45.1	53.8	66.8
-72.5°	10.8	11.9	13.3	14.8	16.5	18.3	20.4	22.6	27.0	32.6	37.9
-75°	9.6	10.4	11.4	12.6	13.9	15.4	17.0	18.7	20.3	21.7	23.1
-77.5°	8.4	9.0	9.7	10.4	11.3	12.3	13.5	14.8	15.9	17.0	18.0
-80°	7.3	7.6	8.0	8.6	9.2	9.9	10.5	11.2	11.8	12.6	13.4
-82.5°	6.4	6.6	6.7	6.9	7.4	7.8	8.3	8.9	9.2	9.6	10.0
-85°	5.7	5.5	5.5	5.5	5.8	6.2	6.6	7.0	7.1	7.3	7.4
-87.5°	5.4	5.3	5.2	5.1	5.2	5.4	5.5	5.7	5.7	5.7	5.7
-90°	3.4	3.4	3.4	3.4	3.2	3.0	2.7	2.5	2.5	2.5	2.5



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	5.1	5.3	5.5	5.7	5.9	6.3	6.7	7.2	7.6	10.8	13.9
87.5°	2.5	2.3	2.1	1.9	1.7	1.5	1.3	1.0	0.8	0.8	0.8
85°	2.5	2.3	2.1	1.9	1.7	1.5	1.3	1.0	0.8	0.8	0.8
82.5°	2.5	2.3	2.1	1.9	1.7	1.5	1.3	1.0	0.8	0.8	0.8
80°	2.5	2.3	2.1	1.9	1.7	1.6	1.6	1.6	1.6	1.4	1.2
77.5°	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.7	1.5	1.3
75°	3.3	3.3	3.2	3.0	2.6	2.4	2.2	1.9	1.7	1.7	1.7
72.5°	4.7	4.6	4.3	4.2	3.7	3.5	3.4	3.3	3.1	3.1	3.2
70°	8.7	8.8	8.5	7.6	6.5	5.7	5.4	4.9	4.2	4.2	4.4
67.5°	13.7	12.5	11.6	10.4	8.8	7.6	6.9	6.3	5.7	5.5	5.7
65°	17.2	13.6	11.7	10.3	9.2	8.2	7.4	6.6	5.8	5.3	5.2
62.5°	17.2	12.3	9.9	8.8	8.0	7.4	6.3	5.3	4.5	3.9	4.0
60°	14.8	10.2	7.5	6.5	5.7	5.1	4.6	4.1	3.7	3.4	3.5
57.5°	11.3	7.3	5.1	5.0	4.7	4.4	4.2	4.0	3.7	3.4	3.6
55°	7.9	6.1	5.1	5.2	5.3	5.2	4.9	4.5	4.2	3.9	4.1
52.5°	6.3	6.1	6.4	6.5	6.0	5.5	5.1	5.0	5.1	5.2	5.4
50°	6.7	7.0	7.1	6.7	6.4	6.1	5.9	6.1	6.5	6.8	7.1
47.5°	7.7	8.1	8.3	7.5	7.6	8.1	7.7	7.9	9.5	10.7	11.5
45°	10.1	11.4	11.6	11.8	11.6	12.8	13.4	14.1	17.2	18.5	18.4
42.5°	15.6	17.5	18.7	19.9	18.9	22.4	27.3	30.6	29.8	28.6	29.0
40°	23.5	27.0	31.9	34.5	37.4	41.3	42.7	37.0	36.1	40.7	41.1
37.5°	35.8	45.1	55.5	63.4	64.8	63.0	61.0	60.1	61.4	64.5	69.0
35°	58.9	80.8	90.4	95.3	98.4	89.2	85.7	89.0	86.1	94.6	97.5
32.5°	104.3	132.6	140.8	144.6	152.2	142.9	122.2	146.7	137.4	136.0	145.4
30°	165.4	204.9	238.8	241.3	235.8	234.4	246.2	249.5	238.4	238.3	275.5
27.5°	316.9	325.9	385.8	413.0	345.1	350.3	382.6	365.4	405.6	444.4	475.0
25°	501.8	509.2	614.1	598.1	526.2	546.6	565.6	561.8	608.4	655.1	708.1
22.5°	671.8	702.2	788.3	766.1	734.0	742.8	760.3	794.7	857.4	952.2	1199.2
20°	807.3	827.1	869.0	888.0	889.9	907.2	962.7	1057.7	1252.8	1892.6	2665.1
17.5°	938.0	907.4	957.8	990.7	1026.3	1089.9	1218.9	1608.2	2548.9	4488.2	6388.7
15°	1127.9	1109.0	1079.4	1124.5	1223.4	1353.4	1654.7	3078.2	6273.8	9910.2	13690.8
12.5°	1334.7	1309.8	1268.9	1306.9	1457.1	1688.7	3105.1	6712.4	11820.6	18339.9	31038.7
10°	1499.6	1488.4	1462.9	1543.6	1739.5	2437.5	4946.4	10622.4	18218.0	33340.9	51827.3
7.5°	1600.4	1595.3	1617.0	1749.2	2016.0	3559.9	8086.1	15989.6	29336.8	50331.5	81364.5
5°	1710.7	1702.7	1737.8	1898.0	2213.7	4279.3	10538.5	20810.9	40688.2	69734.9	114801.9
2.5°	1829.0	1810.8	1846.8	2029.4	2368.5	4438.9	11089.0	22254.9	47426.6	84692.2	145072.8
0°	1948.2	1911.0	1930.4	2113.0	2484.0	4962.2	12230.0	24336.6	52190.1	93345.7	157564.3
-2.5°	1957.9	1894.8	1914.2	2082.9	2438.2	4272.4	10618.3	22418.5	49602.8	86853.0	144292.6
-5°	1974.3	1892.1	1886.7	2034.6	2372.9	3897.8	9008.5	20503.4	43824.5	76429.7	126203.8
-7.5°	2005.0	1907.8	1861.0	1970.4	2269.3	3388.4	7349.5	17068.4	35453.8	62336.7	98405.6
-10°	2055.2	1950.8	1874.4	1922.4	2138.5	2763.5	4862.8	12405.7	26836.9	46998.4	71447.0
-12.5°	2117.2	2068.9	1954.2	1887.8	2006.5	2345.1	3822.3	9268.7	18855.3	29733.8	47569.2
-15°	2145.9	2164.2	2081.3	1949.2	1956.9	2166.4	2673.3	5074.9	11835.9	19740.0	28538.3
-17.5°	2106.9	2193.1	2097.3	1945.7	1884.2	2008.3	2245.4	3125.9	5469.4	10546.3	15706.4
-20°	1992.8	2020.9	2001.4	1910.3	1845.9	1852.7	1970.0	2198.3	2655.5	4317.5	6143.9



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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°	1781.4	1799.5	1794.4	1861.7	1789.4	1756.9	1782.5	1871.1	2013.0	2228.6	2833.0
-25°	1601.2	1593.5	1635.1	1747.8	1765.6	1687.0	1666.5	1673.0	1753.7	1849.3	1981.8
-27.5°	1429.3	1481.3	1572.9	1687.2	1736.9	1684.1	1617.6	1574.2	1613.1	1643.2	1702.7
-30°	1285.4	1419.9	1515.9	1620.0	1694.8	1686.4	1621.7	1600.4	1582.1	1560.7	1575.8
-32.5°	1056.5	1345.7	1444.8	1529.9	1620.5	1657.1	1656.6	1647.6	1655.9	1638.5	1599.7
-35°	821.1	1132.8	1390.0	1437.3	1495.9	1582.4	1648.7	1659.2	1669.1	1668.7	1659.3
-37.5°	589.0	878.8	1139.5	1331.1	1399.9	1463.3	1587.0	1653.0	1674.6	1708.7	1721.3
-40°	483.0	569.9	830.5	1064.9	1223.0	1415.0	1543.5	1663.0	1785.9	1857.8	1898.5
-42.5°	451.2	487.4	525.6	705.9	931.3	1142.1	1343.5	1571.1	1745.7	1881.4	2016.6
-45°	428.4	451.6	476.9	512.4	547.8	726.4	931.6	1137.5	1330.8	1525.7	1712.7
-47.5°	419.3	427.8	445.5	465.7	489.3	520.6	550.2	596.0	755.6	913.5	1083.0
-50°	404.7	426.0	433.6	441.0	460.1	478.4	492.5	511.9	531.2	543.4	559.3
-52.5°	374.0	401.4	424.9	446.4	458.8	469.4	478.8	494.7	509.6	522.6	531.5
-55°	342.3	370.6	397.6	424.1	448.8	472.6	493.1	504.6	516.1	527.7	532.5
-57.5°	304.9	334.8	364.0	391.6	418.6	444.9	468.4	489.4	509.6	528.4	540.1
-60°	265.9	291.3	320.8	351.4	379.6	405.5	431.4	455.9	478.4	497.6	509.7
-62.5°	227.8	252.1	276.4	303.9	334.5	363.9	387.3	411.0	434.9	455.8	471.0
-65°	186.5	206.8	226.3	247.1	269.0	292.6	317.2	341.5	365.2	385.1	400.0
-67.5°	130.2	149.7	167.7	185.5	201.9	218.5	236.2	254.2	272.1	287.9	301.2
-70°	79.4	91.2	101.7	113.0	126.6	140.5	154.5	167.3	179.0	188.7	196.5
-72.5°	43.0	47.5	52.6	61.0	68.7	77.0	85.5	93.4	100.7	107.4	113.4
-75°	24.5	26.6	30.2	33.4	36.3	39.8	43.7	47.3	50.8	54.3	57.4
-77.5°	19.1	20.2	21.1	22.1	22.9	24.2	25.7	27.2	28.7	31.2	33.9
-80°	14.3	14.9	15.6	16.2	16.9	17.7	18.6	19.4	20.1	21.3	22.4
-82.5°	10.4	10.7	11.0	11.3	11.5	12.1	12.7	13.3	13.9	15.0	16.2
-85°	7.6	7.7	7.8	7.9	8.0	8.3	8.6	8.9	9.1	10.2	11.3
-87.5°	5.8	5.8	5.8	5.9	5.9	6.1	6.4	6.6	6.8	7.9	9.0
-90°	2.5	2.3	2.1	1.9	1.7	1.5	1.3	1.0	0.8	0.6	0.4



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	17.1	20.3	23.2	26.2	23.2	20.3	17.1	13.9	10.8	7.6	7.2
87.5°	0.8	0.8	0.4	0.0	0.4	0.8	0.8	0.8	0.8	0.8	1.0
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0
80°	1.0	0.8	0.8	0.8	0.8	0.8	1.0	1.2	1.4	1.6	1.6
77.5°	1.0	0.8	0.8	0.8	0.8	0.8	1.0	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	1.9
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°	4.7	5.0	5.5	5.9	5.5	5.0	4.7	4.4	4.2	4.2	4.9
67.5°	5.8	5.9	5.1	4.2	5.1	5.9	5.8	5.7	5.5	5.7	6.3
65°	5.2	5.1	4.7	4.2	4.7	5.1	5.2	5.2	5.3	5.8	6.6
62.5°	4.0	4.2	4.2	4.2	4.2	4.2	4.0	4.0	3.9	4.5	5.3
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°	3.8	4.1	4.2	4.2	4.2	4.1	3.8	3.6	3.4	3.7	4.0
55°	4.2	4.2	4.5	5.1	4.5	4.2	4.2	4.1	3.9	4.2	4.5
52.5°	5.6	5.8	5.9	5.9	5.9	5.8	5.6	5.4	5.2	5.1	5.0
50°	7.3	7.5	7.6	7.6	7.6	7.5	7.3	7.1	6.8	6.5	6.1
47.5°	12.1	12.4	12.9	13.5	12.9	12.4	12.1	11.5	10.7	9.5	7.9
45°	19.3	19.8	20.6	22.0	20.6	19.8	19.3	18.4	18.5	17.2	14.1
42.5°	30.5	31.4	32.3	33.8	32.3	31.4	30.5	29.0	28.6	29.8	30.6
40°	42.1	42.6	43.2	44.8	43.2	42.6	42.1	41.1	40.7	36.1	37.0
37.5°	71.1	68.1	64.9	71.8	64.9	68.1	71.1	69.0	64.5	61.4	60.1
35°	97.0	98.8	101.7	106.5	101.7	98.8	97.0	97.5	94.6	86.1	89.0
32.5°	147.1	155.2	158.8	164.0	158.8	155.2	147.1	145.4	136.0	137.4	146.7
30°	292.8	292.4	268.8	273.0	268.8	292.4	292.8	275.5	238.3	238.4	249.5
27.5°	484.8	490.7	488.1	500.4	488.1	490.7	484.8	475.0	444.4	405.6	365.4
25°	754.7	779.9	775.0	799.6	775.0	779.9	754.7	708.1	655.1	608.4	561.8
22.5°	1502.9	1619.2	1617.4	1772.4	1617.4	1619.2	1502.9	1199.2	952.2	857.4	794.7
20°	4014.1	4808.2	4481.0	4541.2	4481.0	4808.2	4014.1	2665.1	1892.6	1252.8	1057.7
17.5°	9256.7	11947.5	13116.0	14576.3	13116.0	11947.5	9256.7	6388.7	4488.2	2548.9	1608.2
15°	21131.4	28300.4	31886.4	28226.2	31886.4	28300.4	21131.4	13690.8	9910.2	6273.8	3078.2
12.5°	44242.9	56830.1	65531.0	58853.7	65531.0	56830.1	44242.9	31038.7	18339.9	11820.6	6712.4
10°	76433.3	99618.9	118780.6	112465.4	118780.6	99618.9	76433.3	51827.3	33340.9	18218.0	10622.4
7.5°	117503.5	154959.0	178336.7	178163.5	178336.7	154959.0	117503.5	81364.5	50331.5	29336.8	15989.6
5°	169051.7	216973.5	246740.4	250329.9	246740.4	216973.5	169051.7	114801.9	69734.9	40688.2	20810.9
2.5°	207219.6	259176.2	299821.2	314481.3	299821.2	259176.2	207219.6	145072.8	84692.2	47426.6	22254.9
0°	222803.0	276367.0	319814.4	344039.5	319814.4	276367.0	222803.0	157564.3	93345.7	52190.1	24336.6
-2.5°	210558.5	260030.4	295865.2	310873.9	295865.2	260030.4	210558.5	144292.6	86853.0	49602.8	22418.5
-5°	183845.9	230437.2	258080.4	267897.3	258080.4	230437.2	183845.9	126203.8	76429.7	43824.5	20503.4
-7.5°	143869.7	182871.0	206734.1	215353.0	206734.1	182871.0	143869.7	98405.6	62336.7	35453.8	17068.4
-10°	99630.2	128620.6	149338.4	155764.9	149338.4	128620.6	99630.2	71447.0	46998.4	26836.9	12405.7
-12.5°	64197.1	81397.3	92875.5	97056.2	92875.5	81397.3	64197.1	47569.2	29733.8	18855.3	9268.7
-15°	39054.6	48631.7	54190.6	56063.7	54190.6	48631.7	39054.6	28538.3	19740.0	11835.9	5074.9
-17.5°	21518.9	26141.0	27840.3	29035.9	27840.3	26141.0	21518.9	15706.4	10546.3	5469.4	3125.9
-20°	9640.5	11647.1	12631.7	13136.9	12631.7	11647.1	9640.5	6143.9	4317.5	2655.5	2198.3



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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°	3717.1	4303.1	4567.0	4783.8	4567.0	4303.1	3717.1	2833.0	2228.6	2013.0	1871.1
-25°	2097.0	2178.4	2215.4	2239.8	2215.4	2178.4	2097.0	1981.8	1849.3	1753.7	1673.0
-27.5°	1745.1	1792.1	1824.3	1818.9	1824.3	1792.1	1745.1	1702.7	1643.2	1613.1	1574.2
-30°	1577.0	1591.4	1603.6	1594.0	1603.6	1591.4	1577.0	1575.8	1560.7	1582.1	1600.4
-32.5°	1572.4	1557.5	1549.0	1546.7	1549.0	1557.5	1572.4	1599.7	1638.5	1655.9	1647.6
-35°	1648.8	1642.1	1637.8	1640.5	1637.8	1642.1	1648.8	1659.3	1668.7	1669.1	1659.2
-37.5°	1722.8	1712.9	1698.0	1686.2	1698.0	1712.9	1722.8	1721.3	1708.7	1674.6	1653.0
-40°	1906.4	1941.9	1986.9	2011.6	1986.9	1941.9	1906.4	1898.5	1857.8	1785.9	1663.0
-42.5°	2056.7	2082.6	2094.3	2093.6	2094.3	2082.6	2056.7	2016.6	1881.4	1745.7	1571.1
-45°	1854.5	1958.1	2014.2	2025.1	2014.2	1958.1	1854.5	1712.7	1525.7	1330.8	1137.5
-47.5°	1265.6	1434.0	1532.8	1545.9	1532.8	1434.0	1265.6	1083.0	913.5	755.6	596.0
-50°	581.3	603.8	612.1	606.0	612.1	603.8	581.3	559.3	543.4	531.2	511.9
-52.5°	540.1	548.8	553.2	554.4	553.2	548.8	540.1	531.5	522.6	509.6	494.7
-55°	537.0	541.7	544.9	547.7	544.9	541.7	537.0	532.5	527.7	516.1	504.6
-57.5°	551.0	561.2	566.0	568.0	566.0	561.2	551.0	540.1	528.4	509.6	489.4
-60°	520.6	530.6	534.2	535.0	534.2	530.6	520.6	509.7	497.6	478.4	455.9
-62.5°	485.2	498.3	503.2	504.6	503.2	498.3	485.2	471.0	455.8	434.9	411.0
-65°	413.1	424.2	425.0	421.8	425.0	424.2	413.1	400.0	385.1	365.2	341.5
-67.5°	313.3	323.7	324.3	321.2	324.3	323.7	313.3	301.2	287.9	272.1	254.2
-70°	202.8	207.6	208.6	207.9	208.6	207.6	202.8	196.5	188.7	179.0	167.3
-72.5°	118.7	123.2	122.3	120.0	122.3	123.2	118.7	113.4	107.4	100.7	93.4
-75°	60.2	62.7	63.6	64.2	63.6	62.7	60.2	57.4	54.3	50.8	47.3
-77.5°	36.6	39.3	40.1	40.6	40.1	39.3	36.6	33.9	31.2	28.7	27.2
-80°	23.4	24.4	24.5	24.5	24.4	24.4	23.4	22.4	21.3	20.1	19.4
-82.5°	17.4	18.5	19.0	19.4	19.0	18.5	17.4	16.2	15.0	13.9	13.3
-85°	12.4	13.5	13.9	14.4	13.9	13.5	12.4	11.3	10.2	9.1	8.9
-87.5°	10.0	11.0	11.4	11.8	11.4	11.0	10.0	9.0	7.9	6.8	6.6
-90°	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.8	1.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	6.7	6.3	5.9	5.7	5.5	5.3	5.1	5.1	5.1	5.1	5.1
87.5°	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.5	2.5	2.5	2.5
85°	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.5	2.5	2.5	2.5
82.5°	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.6	2.6	2.6	2.6
80°	1.6	1.6	1.7	1.9	2.1	2.3	2.5	2.8	3.0	3.2	3.2
77.5°	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.8	3.0	3.2	3.4
75°	2.2	2.4	2.6	3.0	3.2	3.3	3.3	3.2	3.2	3.3	3.5
72.5°	3.4	3.5	3.7	4.2	4.3	4.6	4.7	4.4	4.1	3.7	3.5
70°	5.4	5.7	6.5	7.6	8.5	8.8	8.7	7.8	6.3	5.5	4.8
67.5°	6.9	7.6	8.8	10.4	11.6	12.5	13.7	14.2	13.5	11.9	8.2
65°	7.4	8.2	9.2	10.3	11.7	13.6	17.2	19.2	19.7	18.9	14.3
62.5°	6.3	7.4	8.0	8.8	9.9	12.3	17.2	21.1	24.1	24.0	18.7
60°	4.6	5.1	5.7	6.5	7.5	10.2	14.8	20.2	26.4	24.7	20.7
57.5°	4.2	4.4	4.7	5.0	5.1	7.3	11.3	16.4	22.2	21.9	20.1
55°	4.9	5.2	5.3	5.2	5.1	6.1	7.9	11.3	15.8	16.7	16.1
52.5°	5.1	5.5	6.0	6.5	6.4	6.1	6.3	8.3	10.2	11.9	12.3
50°	5.9	6.1	6.4	6.7	7.1	7.0	6.7	6.8	8.0	9.2	9.7
47.5°	7.7	8.1	7.6	7.5	8.3	8.1	7.7	7.6	8.6	8.4	8.9
45°	13.4	12.8	11.6	11.8	11.6	11.4	10.1	10.7	11.0	10.8	9.2
42.5°	27.3	22.4	18.9	19.9	18.7	17.5	15.6	15.3	15.0	14.3	13.5
40°	42.7	41.3	37.4	34.5	31.9	27.0	23.5	21.0	20.0	18.8	18.7
37.5°	61.0	63.0	64.8	63.4	55.5	45.1	35.8	28.7	25.7	26.8	25.4
35°	85.7	89.2	98.4	95.3	90.4	80.8	58.9	42.2	36.9	39.7	35.0
32.5°	122.2	142.9	152.2	144.6	140.8	132.6	104.3	68.7	66.2	61.7	51.6
30°	246.2	234.4	235.8	241.3	238.8	204.9	165.4	171.4	137.3	92.8	74.2
27.5°	382.6	350.3	345.1	413.0	385.8	325.9	316.9	347.0	251.2	166.7	109.4
25°	565.6	546.6	526.2	598.1	614.1	509.2	501.8	529.0	459.6	270.0	154.1
22.5°	760.3	742.8	734.0	766.1	788.3	702.2	671.8	706.6	687.9	396.6	236.6
20°	962.7	907.2	889.9	888.0	869.0	827.1	807.3	832.2	749.6	537.4	322.1
17.5°	1218.9	1089.9	1026.3	990.7	957.8	907.4	938.0	926.8	829.5	647.0	403.4
15°	1654.7	1353.4	1223.4	1124.5	1079.4	1109.0	1127.9	1063.7	923.8	723.1	513.3
12.5°	3105.1	1688.7	1457.1	1306.9	1268.9	1309.8	1334.7	1235.4	1050.6	889.1	695.0
10°	4946.4	2437.5	1739.5	1543.6	1462.9	1488.4	1499.6	1386.4	1224.3	1082.0	890.6
7.5°	8086.1	3559.9	2016.0	1749.2	1617.0	1595.3	1600.4	1495.2	1373.1	1257.2	1093.2
5°	10538.5	4279.3	2213.7	1898.0	1737.8	1702.7	1710.7	1578.0	1502.2	1418.0	1294.5
2.5°	11089.0	4438.9	2368.5	2029.4	1846.8	1810.8	1829.0	1672.0	1611.5	1531.5	1425.6
0°	12230.0	4962.2	2484.0	2113.0	1930.4	1911.0	1948.2	1785.1	1712.4	1632.1	1536.6
-2.5°	10618.3	4272.4	2438.2	2082.9	1914.2	1894.8	1957.9	1856.9	1748.4	1641.3	1498.7
-5°	9008.5	3897.8	2372.9	2034.6	1886.7	1892.1	1974.3	1918.0	1785.5	1652.2	1433.4
-7.5°	7349.5	3388.4	2269.3	1970.4	1861.0	1907.8	2005.0	1968.9	1838.9	1718.2	1456.6
-10°	4862.8	2763.5	2138.5	1922.4	1874.4	1950.8	2055.2	2011.3	1894.5	1781.7	1445.8
-12.5°	3822.3	2345.1	2006.5	1887.8	1954.2	2068.9	2117.2	2032.1	1955.4	1845.2	1397.5
-15°	2673.3	2166.4	1956.9	1949.2	2081.3	2164.2	2145.9	2002.9	1927.4	1856.6	1309.1
-17.5°	2245.4	2008.3	1884.2	1945.7	2097.3	2193.1	2106.9	1955.2	1835.1	1665.2	1086.1
-20°	1970.0	1852.7	1845.9	1910.3	2001.4	2020.9	1992.8	1860.5	1702.3	1359.7	871.7





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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°	1782.5	1756.9	1789.4	1861.7	1794.4	1799.5	1781.4	1693.3	1531.4	1040.8	672.8
-25°	1666.5	1687.0	1765.6	1747.8	1635.1	1593.5	1601.2	1507.7	1208.8	778.7	512.1
-27.5°	1617.6	1684.1	1736.9	1687.2	1572.9	1481.3	1429.3	1301.6	897.8	611.2	466.6
-30°	1621.7	1686.4	1694.8	1620.0	1515.9	1419.9	1285.4	981.2	688.4	480.7	431.2
-32.5°	1656.6	1657.1	1620.5	1529.9	1444.8	1345.7	1056.5	719.4	509.2	445.8	410.2
-35°	1648.7	1582.4	1495.9	1437.3	1390.0	1132.8	821.1	552.4	449.3	417.2	393.0
-37.5°	1587.0	1463.3	1399.9	1331.1	1139.5	878.8	589.0	467.0	423.8	399.3	380.3
-40°	1543.5	1415.0	1223.0	1064.9	830.5	569.9	483.0	439.5	409.9	384.6	369.5
-42.5°	1343.5	1142.1	931.3	705.9	525.6	487.4	451.2	421.6	397.8	377.9	345.3
-45°	931.6	726.4	547.8	512.4	476.9	451.6	428.4	409.8	392.4	357.5	317.3
-47.5°	550.2	520.6	489.3	465.7	445.5	427.8	419.3	404.8	368.3	330.6	290.3
-50°	492.5	478.4	460.1	441.0	433.6	426.0	404.7	374.1	339.2	302.4	263.5
-52.5°	478.8	469.4	458.8	446.4	424.9	401.4	374.0	343.4	310.2	273.8	236.7
-55°	493.1	472.6	448.8	424.1	397.6	370.6	342.3	311.7	279.0	244.1	210.6
-57.5°	468.4	444.9	418.6	391.6	364.0	334.8	304.9	275.4	246.5	214.9	184.3
-60°	431.4	405.5	379.6	351.4	320.8	291.3	265.9	239.6	212.6	187.3	161.6
-62.5°	387.3	363.9	334.5	303.9	276.4	252.1	227.8	204.3	183.0	161.1	131.3
-65°	317.2	292.6	269.0	247.1	226.3	206.8	186.5	164.6	141.9	119.6	94.6
-67.5°	236.2	218.5	201.9	185.5	167.7	149.7	130.2	111.2	95.1	79.6	61.4
-70°	154.5	140.5	126.6	113.0	101.7	91.2	79.4	66.8	53.8	45.1	37.6
-72.5°	85.5	77.0	68.7	61.0	52.6	47.5	43.0	37.9	32.6	27.0	22.6
-75°	43.7	39.8	36.3	33.4	30.2	26.6	24.5	23.1	21.7	20.3	18.7
-77.5°	25.7	24.2	22.9	22.1	21.1	20.2	19.1	18.0	17.0	15.9	14.8
-80°	18.6	17.7	16.9	16.2	15.6	14.9	14.3	13.4	12.6	11.8	11.2
-82.5°	12.7	12.1	11.5	11.3	11.0	10.7	10.4	10.0	9.6	9.2	8.9
-85°	8.6	8.3	8.0	7.9	7.8	7.7	7.6	7.4	7.3	7.1	7.0
-87.5°	6.4	6.1	5.9	5.9	5.8	5.8	5.8	5.7	5.7	5.7	5.7
-90°	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.5	2.5	2.5	2.5





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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°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.9	4.7	4.4
87.5°	2.7	3.0	3.2	3.4	3.4	3.4	3.4	3.4	3.6	3.8	4.0
85°	2.7	3.0	3.2	3.4	3.4	3.4	3.4	3.4	3.6	3.8	4.0
82.5°	2.8	3.0	3.2	3.4	3.5	3.6	3.6	3.6	3.7	3.8	4.0
80°	3.2	3.2	3.3	3.4	3.6	3.8	3.9	4.0	3.9	4.0	4.1
77.5°	3.5	3.5	3.4	3.5	3.6	3.8	4.0	4.2	4.1	4.1	4.1
75°	3.7	3.8	3.8	3.8	3.8	3.9	4.1	4.2	4.2	4.2	4.2
72.5°	3.7	3.9	4.1	4.2	4.1	4.0	4.1	4.2	4.2	4.2	4.2
70°	4.2	4.0	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	5.1	4.5	4.2	4.2	4.2	4.2	4.2	4.3	4.3	4.2	4.2
65°	10.0	6.5	4.2	4.2	4.2	4.2	4.2	4.4	4.5	4.4	4.2
62.5°	14.0	10.0	6.8	4.8	4.2	4.2	4.2	4.4	4.6	4.6	4.4
60°	17.0	12.4	9.3	7.0	5.0	4.2	4.3	4.5	4.7	4.8	4.6
57.5°	16.4	13.7	11.3	8.9	6.6	4.9	4.3	4.5	4.7	4.9	4.9
55°	14.4	12.4	12.5	10.6	8.1	6.0	4.7	4.6	4.8	5.0	5.1
52.5°	11.3	11.7	12.6	11.8	9.5	7.1	5.6	4.6	4.8	5.0	5.1
50°	9.1	10.8	12.6	12.7	10.7	8.3	6.3	5.2	4.9	5.0	5.1
47.5°	9.4	10.8	12.1	13.6	12.3	9.3	7.2	5.7	4.9	5.1	5.1
45°	10.8	11.9	12.4	13.4	13.7	10.4	7.9	6.1	5.3	5.1	5.1
42.5°	12.8	13.8	14.1	13.4	13.7	11.4	8.6	6.7	5.6	5.2	5.1
40°	17.5	16.1	16.2	15.9	13.9	12.1	9.2	7.1	5.8	5.3	5.2
37.5°	23.0	20.3	18.7	20.3	15.6	12.7	9.7	7.5	6.1	5.5	5.3
35°	30.2	25.9	24.6	26.0	21.1	13.8	9.9	7.8	6.7	5.8	5.4
32.5°	38.4	37.6	37.3	32.5	28.1	15.4	10.7	8.7	7.5	6.0	5.5
30°	57.8	58.3	55.2	40.1	36.0	21.8	12.6	9.8	8.3	6.2	5.6
27.5°	90.5	82.6	77.1	55.8	43.2	29.7	15.2	11.1	9.2	6.6	5.8
25°	125.6	112.1	100.8	77.1	51.2	40.0	17.8	12.6	10.2	7.3	6.0
22.5°	167.0	142.4	126.9	101.2	64.0	51.4	23.2	14.8	11.3	8.0	6.1
20°	208.2	172.5	155.5	124.1	82.7	62.1	32.1	16.9	12.5	8.8	6.3
17.5°	254.5	210.5	186.4	147.3	103.3	73.9	41.3	19.0	13.7	9.5	6.5
15°	346.0	258.2	220.1	172.8	122.2	86.6	50.9	20.9	15.0	10.3	6.7
12.5°	456.6	305.8	256.3	200.0	139.6	99.9	60.5	22.8	16.3	11.1	7.0
10°	578.4	352.9	294.1	228.2	155.4	113.4	69.8	25.4	17.8	11.9	7.3
7.5°	705.6	399.0	332.5	256.3	173.1	134.3	92.5	30.2	19.4	12.6	7.6
5°	829.4	443.1	374.2	298.1	207.0	162.1	118.1	35.2	20.9	13.3	7.9
2.5°	933.8	483.7	415.8	339.8	240.2	189.0	143.5	40.1	22.4	13.9	8.2
0°	1023.5	521.5	454.7	378.6	272.2	214.7	167.3	44.8	23.7	14.4	8.5
-2.5°	953.7	523.8	459.2	393.4	296.1	235.5	180.6	56.8	30.8	18.2	10.2
-5°	871.9	524.0	462.3	405.9	318.3	254.7	191.1	68.0	37.5	21.8	11.8
-7.5°	867.5	526.1	466.0	416.1	338.5	271.7	198.6	78.2	43.7	25.1	13.3
-10°	856.6	528.4	470.6	418.2	342.6	278.1	201.8	87.2	49.2	28.0	14.6
-12.5°	812.8	528.2	474.3	417.5	341.5	275.1	195.5	94.3	54.1	30.4	15.7
-15°	731.4	525.5	477.5	414.0	337.4	270.6	188.2	99.8	59.3	33.1	16.5
-17.5°	602.8	520.3	480.3	407.5	330.2	264.8	180.4	103.9	63.5	36.2	17.8
-20°	544.9	502.8	480.6	398.0	319.6	257.7	172.5	106.7	66.9	38.5	19.2



REPORT NUMBER: P731331 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-CV2

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	507.3	476.6	448.8	385.2	307.6	249.5	165.0	107.9	69.2	40.0	20.1
-25°	466.8	449.1	416.2	358.4	296.6	236.9	161.5	107.6	70.4	40.6	20.4
-27.5°	433.2	419.4	388.1	332.5	280.1	226.0	160.3	108.5	70.7	40.3	20.1
-30°	401.7	390.5	360.2	309.1	262.7	209.4	157.1	108.1	70.2	39.7	19.2
-32.5°	383.4	368.4	333.5	289.1	243.4	192.2	147.6	106.2	68.4	38.6	18.7
-35°	373.7	347.2	309.1	268.3	223.4	177.6	135.9	102.7	65.2	36.5	18.1
-37.5°	362.7	325.1	286.0	246.7	203.3	162.3	125.5	93.6	60.6	33.5	17.1
-40°	337.7	301.2	263.1	224.6	185.1	146.4	114.1	83.8	55.8	29.4	15.7
-42.5°	311.4	275.3	239.3	202.6	167.0	132.8	101.8	73.4	48.5	26.4	13.7
-45°	282.4	248.7	214.9	182.1	148.9	118.2	89.5	62.5	40.5	23.6	12.2
-47.5°	252.8	222.0	191.6	161.3	131.8	102.9	76.4	53.0	32.0	20.2	11.8
-50°	224.4	196.4	169.0	142.0	114.3	87.7	63.3	42.9	27.1	15.9	11.3
-52.5°	201.0	172.2	147.9	123.1	96.9	71.8	51.6	32.9	22.0	13.8	10.6
-55°	178.0	150.2	128.0	103.3	78.7	57.8	39.4	26.8	16.6	12.8	9.8
-57.5°	157.1	130.2	105.7	82.1	61.8	43.8	30.3	20.5	14.4	11.6	9.4
-60°	134.7	105.6	81.3	62.7	45.6	32.3	23.0	15.6	13.1	10.6	8.8
-62.5°	103.6	79.0	60.2	44.2	32.8	23.9	16.5	14.2	11.7	9.9	8.2
-65°	73.8	55.3	39.7	31.3	23.1	17.0	14.9	12.6	10.8	9.2	7.7
-67.5°	44.9	36.1	27.8	20.4	17.2	15.2	13.2	11.5	10.0	8.5	7.3
-70°	30.0	22.6	18.9	17.0	15.2	13.4	12.0	10.6	9.2	7.9	6.8
-72.5°	20.4	18.3	16.5	14.8	13.3	11.9	10.8	9.7	8.4	7.3	6.3
-75°	17.0	15.4	13.9	12.6	11.4	10.4	9.6	8.7	7.7	6.7	6.0
-77.5°	13.5	12.3	11.3	10.4	9.7	9.0	8.4	7.8	7.0	6.3	5.8
-80°	10.5	9.9	9.2	8.6	8.0	7.6	7.3	7.0	6.4	5.9	5.5
-82.5°	8.3	7.8	7.4	6.9	6.7	6.6	6.4	6.3	5.9	5.5	5.2
-85°	6.6	6.2	5.8	5.5	5.5	5.5	5.7	5.8	5.5	5.2	4.9
-87.5°	5.5	5.4	5.2	5.1	5.2	5.3	5.4	5.4	5.2	4.9	4.7
-90°	2.7	3.0	3.2	3.4	3.4	3.4	3.4	3.4	3.6	3.8	4.0



REPORT NUMBER: P731331 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
65°	4.3	4.2	4.2	4.2	4.2	4.2	4.2
62.5°	4.3	4.3	4.2	4.2	4.2	4.2	4.2
60°	4.4	4.4	4.2	4.2	4.2	4.2	4.2
57.5°	4.5	4.5	4.3	4.2	4.2	4.2	4.2
55°	4.7	4.6	4.4	4.2	4.2	4.2	4.2
52.5°	4.9	4.7	4.5	4.2	4.2	4.2	4.2
50°	5.0	4.8	4.6	4.2	4.2	4.2	4.2
47.5°	5.1	4.9	4.7	4.2	4.2	4.2	4.2
45°	5.1	4.9	4.8	4.3	4.2	4.2	4.2
42.5°	5.1	5.0	4.9	4.4	4.2	4.2	4.2
40°	5.1	5.0	5.0	4.5	4.2	4.2	4.2
37.5°	5.1	5.1	5.0	4.5	4.2	4.2	4.2
35°	5.1	5.1	5.0	4.6	4.2	4.2	4.2
32.5°	5.1	5.1	5.1	4.7	4.2	4.2	4.2
30°	5.2	5.1	5.1	4.7	4.2	4.2	4.2
27.5°	5.3	5.1	5.1	4.8	4.2	4.2	4.2
25°	5.4	5.1	5.1	4.8	4.2	4.2	4.2
22.5°	5.5	5.1	5.1	4.9	4.2	4.2	4.2
20°	5.6	5.2	5.1	4.9	4.2	4.2	4.2
17.5°	5.7	5.2	5.1	5.0	4.2	4.2	4.2
15°	5.9	5.3	5.1	5.0	4.2	4.2	4.2
12.5°	6.1	5.4	5.1	5.0	4.2	4.2	4.2
10°	6.2	5.5	5.1	5.1	4.2	4.2	4.2
7.5°	6.4	5.6	5.1	5.1	4.2	4.2	4.2
5°	6.5	5.7	5.1	5.1	4.2	4.2	4.2
2.5°	6.7	5.8	5.1	5.1	4.2	4.2	4.2
0°	6.8	5.9	5.1	5.1	4.2	4.2	4.2
-2.5°	7.2	6.0	5.2	5.1	4.2	4.2	4.2
-5°	7.6	6.1	5.2	5.1	4.3	4.2	4.2
-7.5°	8.0	6.2	5.3	5.1	4.3	4.2	4.2
-10°	8.4	6.2	5.4	5.1	4.4	4.2	4.2
-12.5°	8.6	6.3	5.4	5.1	4.4	4.2	4.2
-15°	8.8	6.3	5.5	5.0	4.4	4.2	4.2
-17.5°	9.0	6.4	5.5	5.0	4.4	4.2	4.2
-20°	9.3	6.4	5.5	5.0	4.5	4.2	4.2



REPORT NUMBER: P731331 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-CV2

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	9.8	6.4	5.5	5.0	4.5	4.2	4.2
-25°	10.2	6.6	5.5	5.0	4.5	4.2	4.2
-27.5°	10.2	6.8	5.5	5.0	4.5	4.2	4.2
-30°	10.0	6.9	5.5	5.0	4.5	4.2	4.2
-32.5°	9.6	7.0	5.5	5.0	4.5	4.2	4.2
-35°	9.4	7.0	5.5	5.0	4.5	4.2	4.2
-37.5°	9.4	7.0	5.5	5.1	4.5	4.2	4.2
-40°	9.4	7.0	5.5	5.1	4.5	4.2	4.2
-42.5°	9.2	6.9	5.5	5.1	4.5	4.2	4.2
-45°	8.9	6.8	5.6	5.1	4.5	4.2	4.2
-47.5°	8.6	6.7	5.6	5.1	4.4	4.2	4.2
-50°	8.3	6.6	5.6	5.1	4.4	4.2	4.2
-52.5°	8.1	6.4	5.6	5.0	4.4	4.2	4.2
-55°	7.8	6.3	5.5	4.9	4.3	4.2	4.2
-57.5°	7.5	6.2	5.5	4.9	4.3	4.2	4.2
-60°	7.1	6.1	5.4	4.8	4.2	4.2	4.2
-62.5°	6.8	5.9	5.3	4.7	4.2	4.2	4.2
-65°	6.5	5.7	5.2	4.6	4.2	4.2	4.2
-67.5°	6.2	5.5	5.0	4.5	4.2	4.2	4.2
-70°	5.9	5.4	4.9	4.4	4.2	4.2	4.2
-72.5°	5.7	5.2	4.8	4.4	4.2	4.2	4.2
-75°	5.5	5.1	4.6	4.4	4.2	4.2	4.2
-77.5°	5.3	4.9	4.6	4.3	4.2	4.2	4.2
-80°	5.1	4.8	4.5	4.3	4.2	4.2	4.2
-82.5°	4.9	4.6	4.4	4.3	4.2	4.2	4.2
-85°	4.7	4.5	4.4	4.3	4.2	4.2	4.2
-87.5°	4.4	4.3	4.3	4.2	4.2	4.2	4.2
-90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2

(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

