

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: P731336 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-2S-CV5**

Issue Date: 11/16/2023

**Test Information**

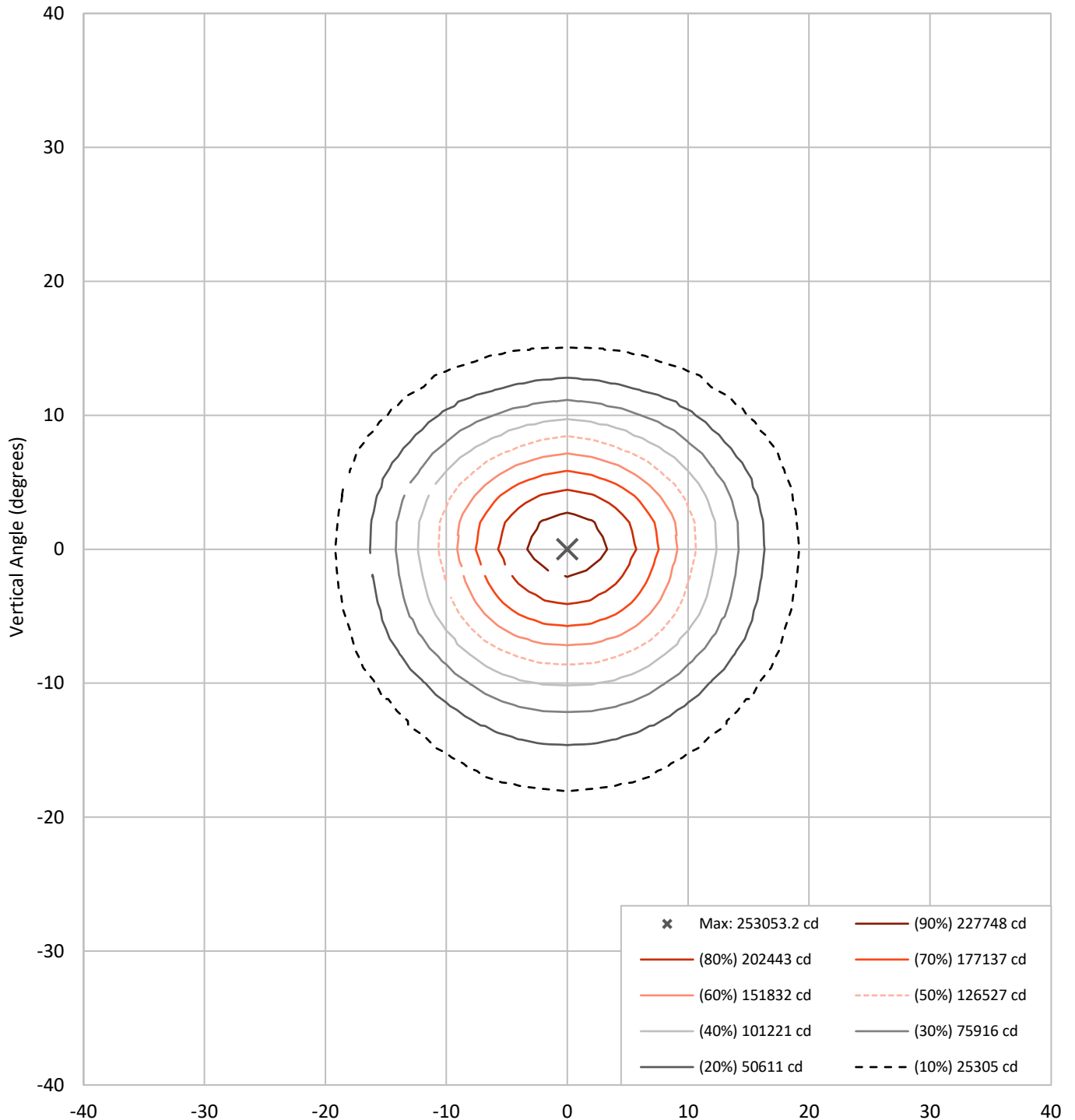
Test Method: LM-79-08  
Report Number: P731336 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-80-2S-CV5  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 2S 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:	34131.7 lumens	Max Intensity:	253053.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	97.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.3°H x 17°V	Field Angle (10%):	38.4°H x 32.9°V
Beam Lumens:	14936.8 lumens	Field Lumens:	28911.3 lumens
Beam Efficiency:	43.8%	Field Efficiency:	84.7%
Input Watts (W):	348.5		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-CV5

### Iso-Candela Plot





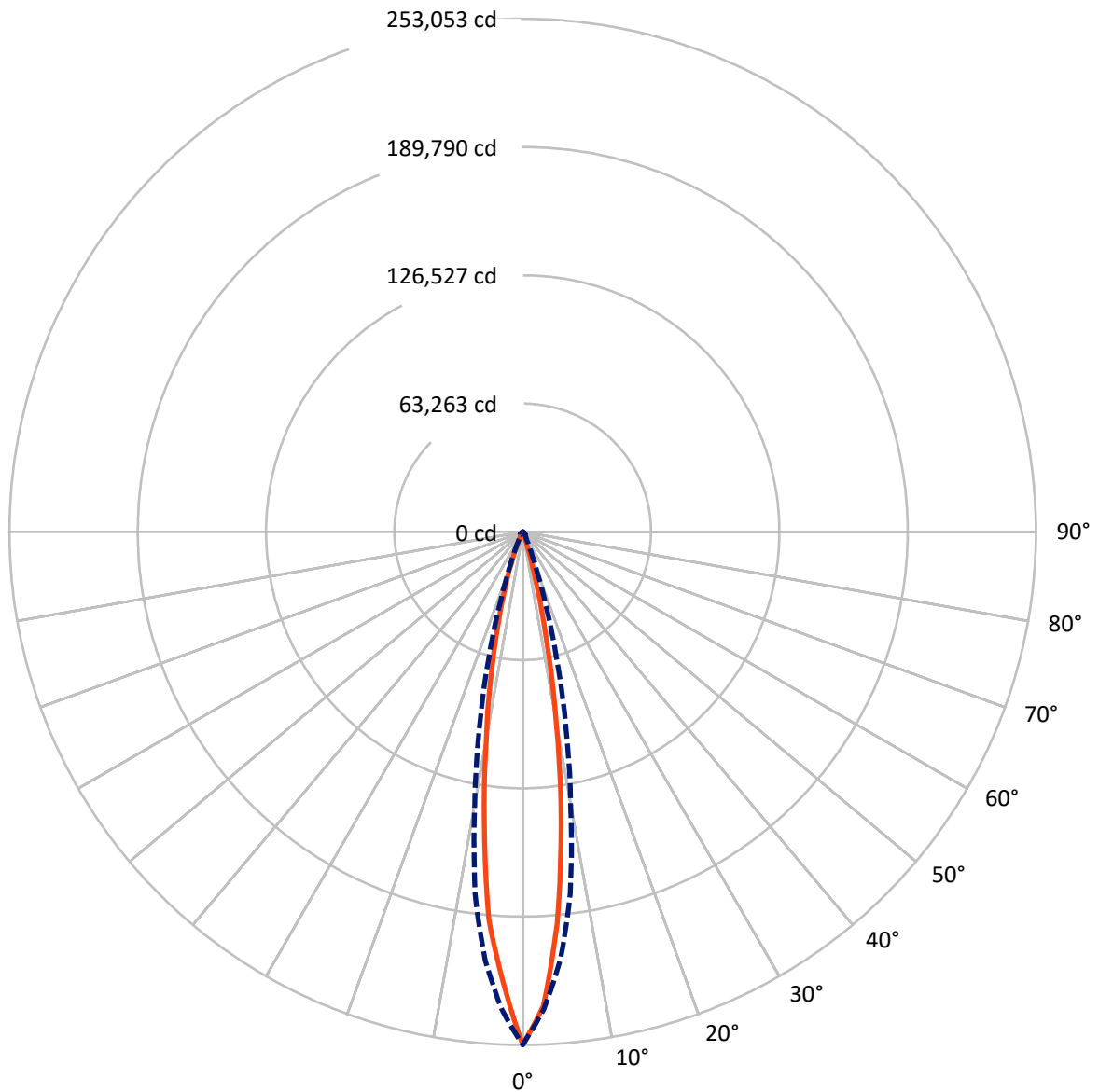
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### Lumen Table

90	0.1	0.3	0.4	0.4	0.5	0.4	0.4	0.3	0.1								
80	0.1	0.3	0.4	0.4	0.5	0.4	0.4	0.3	0.1								
70	0.1	0.1	0.1	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.1	0.1	0.1	
60		0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1		
50	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	
40		0.1	0.3	0.5	0.9	1.3	1.4	1.7	1.7	1.4	1.3	0.9	0.5	0.3	0.1		
30	0.2	0.3	0.9	2.2	4.3	5.5	9.7	20.5	20.5	9.7	5.5	4.3	2.2	0.9	0.3	0.2	
20		0.7	3.1	10.5	21.9	39.8	274.6	845.8	845.8	274.6	39.8	21.9	10.5	3.1	0.7		
10	0.2	1.2	6.5	25.5	51.1	162.4	1585.4	4712.6	4712.6	1585.4	162.4	51.1	25.5	6.5	1.2	0.2	
0		1.6	7.7	29.8	58.4	169.4	1618.2	4738.0	4738.0	1618.2	169.4	58.4	29.8	7.7	1.6		
-10	0.4	1.7	6.8	22.3	45.1	73.1	446.9	1327.4	1327.4	446.9	73.1	45.1	22.3	6.8	1.7	0.4	
-20		1.6	5.7	13.2	33.5	47.6	72.0	151.1	151.1	72.0	47.6	33.5	13.2	5.7	1.6		
-30	0.3	1.4	4.6	9.2	20.5	39.3	50.0	53.8	53.8	50.0	39.3	20.5	9.2	4.6	1.4	0.3	
-40		1.0	3.4	7.3	12.4	20.1	32.6	42.4	42.4	32.6	20.1	12.4	7.3	3.4	1.0		
-50	0.2	0.5	2.0	4.6	8.4	12.2	15.1	16.8	16.8	15.1	12.2	8.4	4.6	2.0	0.5	0.2	
-60		0.2	0.7	2.0	3.7	5.8	7.8	9.1	9.1	7.8	5.8	3.7	2.0	0.7	0.2		
-70	0.1	0.6	1.7	4.3	6.7	4.3	1.7	0.6	0.1							0.1	
-80		0.6	1.7	4.3	6.7	4.3	1.7	0.6	0.1								
-90	0.1	0.6	1.7	4.3	6.7	4.3	1.7	0.6	0.1								

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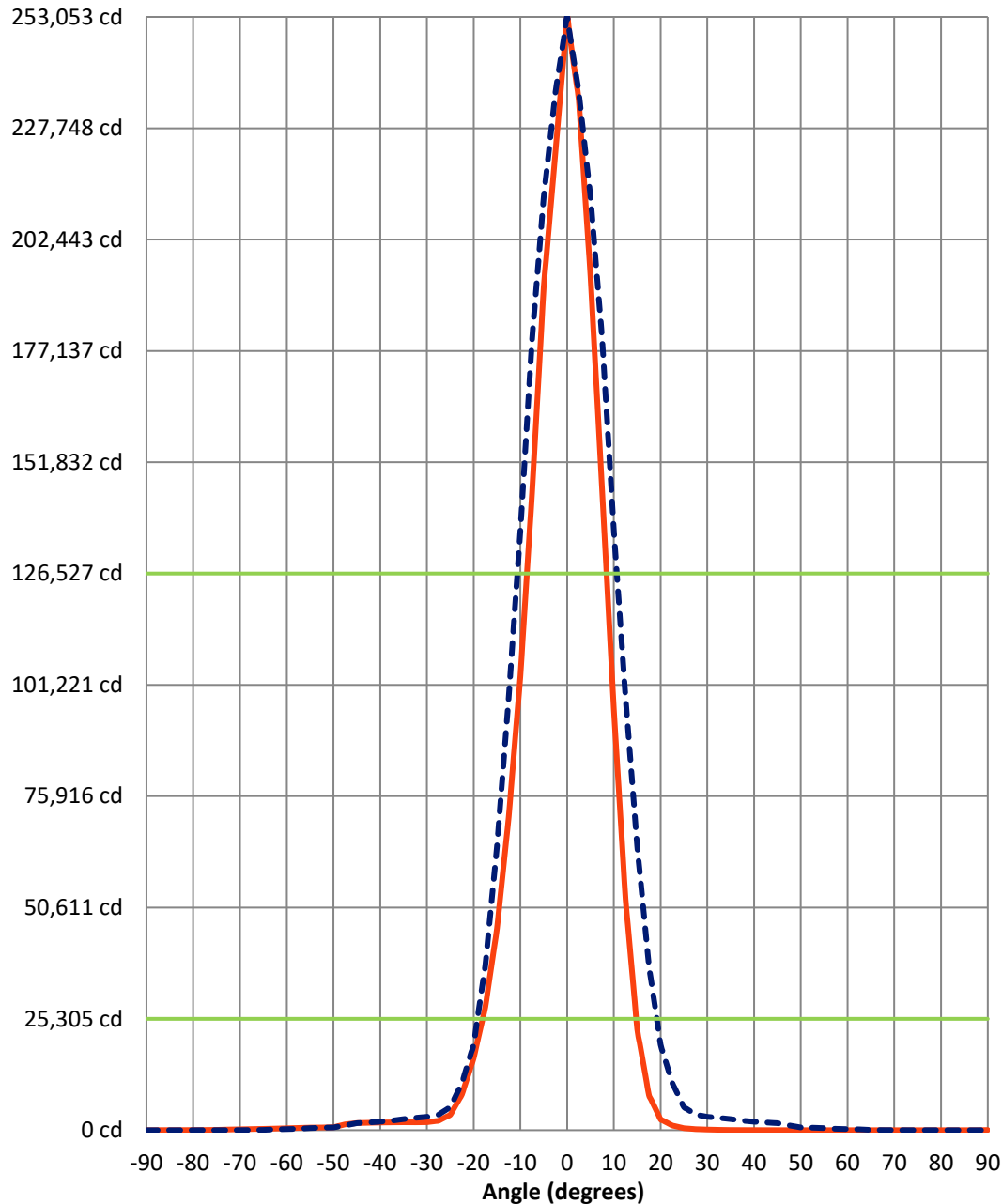
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 21.3°  
V Angle: 17°  
Lumens: 14936.8  
Efficiency: 43.8%

**Field:**  
H Angle: 38.4°  
V Angle: 32.9°  
Lumens: 28911.3  
Efficiency: 84.7%

**Spill:**  
Lumens: 5220.4  
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	4.5	4.8	5.0	5.3	5.6	5.8	6.1	6.3
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.0	3.9	3.7	3.6
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	4.0	4.0	4.0
82.5°	4.2	4.2	4.2	4.2	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	4.2	4.2	4.2	4.2
77.5°	4.2	4.2	4.2	4.2	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	4.3	4.2	4.2	4.2	4.2	4.2
72.5°	4.2	4.2	4.2	4.2	4.3	4.4	4.3	4.2	4.2	4.2	4.2
70°	4.2	4.2	4.2	4.2	4.4	4.4	4.3	4.2	4.2	4.2	4.2
67.5°	4.2	4.2	4.2	4.3	4.5	4.5	4.3	4.2	4.2	4.4	4.3
65°	4.2	4.2	4.2	4.4	4.6	4.6	4.3	4.2	4.4	4.6	4.4
62.5°	4.2	4.2	4.2	4.6	4.8	4.6	4.4	4.4	4.7	4.7	4.5
60°	4.2	4.2	4.2	4.7	4.9	4.7	4.4	4.7	5.0	4.8	4.5
57.5°	4.2	4.2	4.3	4.8	4.9	4.7	4.7	5.0	5.1	4.8	4.9
55°	4.2	4.2	4.4	4.9	4.9	4.7	4.9	5.3	5.1	5.0	5.3
52.5°	4.2	4.2	4.4	5.0	5.0	4.8	5.2	5.4	5.2	5.3	5.7
50°	4.2	4.2	4.5	5.1	5.0	5.0	5.5	5.5	5.3	5.7	6.6
47.5°	4.2	4.2	4.6	5.2	5.0	5.2	5.7	5.6	5.6	6.1	7.4
45°	4.2	4.2	4.7	5.3	5.1	5.4	5.8	5.8	6.0	6.6	8.0
42.5°	4.2	4.2	4.7	5.3	5.1	5.6	6.0	6.0	6.4	7.0	8.8
40°	4.2	4.2	4.8	5.3	5.2	5.8	6.2	6.4	6.8	7.2	9.6
37.5°	4.2	4.2	4.8	5.3	5.3	6.0	6.3	6.7	7.3	8.0	10.2
35°	4.2	4.2	4.9	5.4	5.5	6.1	6.5	7.0	7.9	9.1	10.6
32.5°	4.2	4.2	5.0	5.4	5.6	6.3	6.8	7.3	8.5	10.2	11.5
30°	4.2	4.2	5.0	5.4	5.8	6.5	7.0	7.7	9.1	11.4	12.6
27.5°	4.2	4.2	5.1	5.5	5.9	6.6	7.3	8.2	9.9	12.5	13.9
25°	4.2	4.2	5.1	5.6	6.0	6.8	7.5	8.7	10.9	13.6	15.3
22.5°	4.2	4.2	5.1	5.6	6.1	7.0	7.8	9.3	11.8	14.7	18.2
20°	4.2	4.2	5.2	5.7	6.1	7.1	8.0	9.8	12.7	15.9	21.4
17.5°	4.2	4.2	5.2	5.8	6.2	7.1	8.2	10.4	13.6	17.2	24.9
15°	4.2	4.2	5.2	5.8	6.2	7.2	8.4	10.9	14.4	18.5	28.5
12.5°	4.2	4.2	5.2	5.9	6.3	7.3	8.6	11.3	15.2	19.8	32.2
10°	4.2	4.2	5.3	6.0	6.3	7.3	8.8	11.6	16.1	22.0	36.6
7.5°	4.2	4.2	5.3	6.1	6.3	7.4	9.0	11.9	16.9	24.4	42.5
5°	4.2	4.2	5.3	6.2	6.3	7.4	9.2	12.2	17.7	26.9	48.3
2.5°	4.2	4.2	5.3	6.2	6.3	7.4	9.3	12.4	18.4	29.3	53.8
0°	4.2	4.2	5.3	6.3	6.3	7.4	9.5	12.6	19.0	31.6	59.0
-2.5°	4.2	4.2	5.3	6.4	6.5	7.6	10.3	15.1	23.9	39.1	68.5
-5°	4.2	4.2	5.4	6.4	6.7	7.8	11.1	17.4	28.6	46.2	77.4
-7.5°	4.2	4.3	5.4	6.5	6.8	8.0	11.8	19.6	32.9	52.9	85.5
-10°	4.2	4.3	5.4	6.5	7.0	8.2	12.5	21.5	36.9	58.9	92.7
-12.5°	4.2	4.3	5.5	6.6	7.2	8.4	13.0	23.1	40.3	64.3	99.0
-15°	4.2	4.3	5.5	6.6	7.3	8.6	13.4	24.4	43.3	68.9	104.1
-17.5°	4.2	4.4	5.5	6.7	7.5	8.7	13.6	25.7	46.1	72.7	108.1
-20°	4.2	4.4	5.5	6.7	7.6	8.9	13.9	26.9	48.1	75.7	110.9



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-CV5

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.2	4.4	5.5	6.7	7.7	9.0	14.2	27.4	49.5	77.9	112.5
-25°	4.2	4.4	5.5	6.7	7.8	9.2	14.3	27.4	50.0	79.1	112.8
-27.5°	4.2	4.4	5.5	6.7	7.8	9.4	14.0	26.7	49.7	79.5	113.7
-30°	4.2	4.4	5.5	6.7	7.9	9.5	13.5	25.3	48.8	79.0	113.6
-32.5°	4.2	4.4	5.5	6.7	7.9	9.5	12.6	24.4	47.1	77.3	112.2
-35°	4.2	4.5	5.5	6.7	7.9	9.5	12.4	23.4	44.5	74.4	109.6
-37.5°	4.2	4.5	5.5	6.6	7.9	9.5	12.3	21.9	40.8	70.3	101.8
-40°	4.2	4.5	5.5	6.6	7.9	9.5	12.2	19.9	36.1	65.1	92.9
-42.5°	4.2	4.5	5.4	6.5	7.9	9.4	11.9	17.4	32.4	57.0	83.1
-45°	4.2	4.5	5.4	6.5	7.8	9.4	11.6	15.5	28.9	47.9	72.4
-47.5°	4.2	4.5	5.4	6.4	7.7	9.3	11.1	14.9	24.8	38.4	61.7
-50°	4.2	4.5	5.3	6.4	7.6	9.1	10.9	14.2	19.6	32.5	50.3
-52.5°	4.2	4.5	5.3	6.3	7.5	9.0	10.7	13.3	17.0	26.3	38.8
-55°	4.2	4.5	5.3	6.2	7.4	8.8	10.4	12.3	15.6	19.8	31.5
-57.5°	4.2	4.4	5.2	6.1	7.2	8.6	10.2	12.0	14.2	17.1	23.9
-60°	4.2	4.4	5.2	6.0	7.1	8.4	9.9	11.5	13.0	15.6	18.1
-62.5°	4.2	4.4	5.1	5.9	6.9	8.1	9.5	11.0	12.3	14.0	16.5
-65°	4.2	4.4	5.0	5.8	6.7	7.8	9.1	10.4	11.6	13.0	14.8
-67.5°	4.2	4.4	5.0	5.7	6.5	7.5	8.7	9.9	10.9	12.1	13.5
-70°	4.2	4.4	4.9	5.5	6.3	7.2	8.3	9.4	10.4	11.2	12.4
-72.5°	4.2	4.4	4.8	5.4	6.1	6.9	7.8	8.9	9.9	10.7	11.4
-75°	4.2	4.3	4.7	5.3	5.8	6.5	7.3	8.4	9.4	10.2	10.9
-77.5°	4.2	4.3	4.7	5.2	5.6	6.2	6.9	7.8	8.7	9.7	10.5
-80°	4.2	4.3	4.6	5.0	5.5	5.9	6.3	7.2	8.1	8.9	9.8
-82.5°	4.2	4.3	4.5	4.9	5.3	5.7	6.1	6.7	7.4	8.1	8.9
-85°	4.2	4.2	4.4	4.8	5.1	5.5	5.8	6.3	6.8	7.4	8.1
-87.5°	4.2	4.2	4.3	4.6	4.9	5.2	5.6	5.9	6.3	6.7	7.2
-90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.0	3.7	3.5	3.2





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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°	6.3	6.3	6.3	6.3	6.6	6.9	7.1	7.4	7.6	7.9	8.1
87.5°	3.5	3.5	3.3	3.2	3.2	3.2	3.2	3.2	2.9	2.7	2.4
85°	3.9	3.7	3.5	3.4	3.4	3.3	3.3	3.2	3.1	2.9	2.9
82.5°	4.1	4.0	3.9	3.9	3.8	3.7	3.5	3.2	3.2	3.2	3.2
80°	4.2	4.2	4.2	4.2	4.0	3.7	3.5	3.2	3.2	3.2	3.2
77.5°	4.2	4.2	4.2	4.2	4.0	3.9	3.8	3.8	3.8	3.7	3.5
75°	4.2	4.2	4.2	4.2	4.1	4.1	4.2	4.2	4.1	4.0	4.0
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.1	6.2	7.0
70°	4.2	4.2	4.2	4.2	4.2	4.6	6.1	8.2	10.2	11.4	12.8
67.5°	4.2	4.2	4.2	4.4	5.5	7.2	9.6	14.0	19.0	20.5	20.5
65°	4.2	4.2	4.7	5.8	7.2	10.8	15.6	21.5	26.0	25.3	23.5
62.5°	4.2	4.7	5.7	7.5	10.5	14.9	19.4	23.7	28.2	27.0	22.9
60°	4.7	5.3	7.3	10.3	13.4	16.5	20.8	23.6	26.0	26.1	20.1
57.5°	5.2	6.5	9.5	12.5	14.9	16.9	18.8	20.9	21.7	21.2	15.4
55°	6.0	8.2	11.3	14.0	15.7	14.8	15.7	16.2	15.9	14.5	10.1
52.5°	7.4	9.8	12.8	15.1	15.1	13.2	11.8	11.8	10.8	8.8	7.5
50°	8.5	11.3	14.2	15.4	14.3	11.4	8.9	8.6	7.9	7.1	6.3
47.5°	9.7	12.7	15.3	15.7	12.8	10.4	8.3	7.5	7.0	6.9	6.5
45°	10.8	13.5	16.2	14.5	12.1	10.3	8.9	7.4	7.5	7.4	7.1
42.5°	11.8	14.1	15.3	13.6	12.4	11.2	10.1	9.0	8.4	8.6	8.5
40°	12.1	14.4	14.6	14.3	13.1	12.7	12.6	11.7	10.0	10.8	11.0
37.5°	12.3	14.2	14.9	16.1	14.8	15.2	15.7	15.9	14.7	13.9	16.0
35°	12.3	14.5	17.5	19.1	18.3	18.8	20.6	21.3	20.8	20.5	24.3
32.5°	12.6	15.3	21.0	22.9	24.2	24.8	26.4	27.9	29.3	31.7	39.0
30°	14.0	18.5	25.1	27.3	31.5	36.0	34.8	35.6	39.5	53.8	66.1
27.5°	17.1	23.0	29.3	33.8	40.7	50.2	51.7	47.6	60.0	81.8	102.1
25°	20.8	37.0	33.8	41.7	54.6	67.5	73.5	76.3	91.0	120.4	143.3
22.5°	28.5	55.8	54.4	50.3	70.7	87.6	102.4	131.8	173.1	182.4	187.2
20°	42.2	74.3	79.6	83.8	94.9	110.2	135.7	206.1	294.0	326.4	292.8
17.5°	58.5	94.7	107.8	127.1	152.3	157.1	178.2	294.8	446.0	498.8	509.0
15°	76.7	116.4	137.7	175.5	213.8	232.0	293.4	438.2	612.4	698.6	758.4
12.5°	96.3	139.3	169.0	227.9	278.5	307.3	438.4	659.1	826.3	927.0	1084.7
10°	116.6	162.8	201.1	282.9	345.4	382.5	598.5	887.2	1055.7	1170.3	1373.1
7.5°	137.7	185.5	232.9	339.1	413.6	457.4	767.1	1117.4	1279.1	1404.0	1608.3
5°	157.9	206.4	261.3	386.4	470.1	522.1	923.3	1343.3	1496.1	1628.5	1811.5
2.5°	176.5	226.4	288.8	429.8	517.5	571.0	1012.2	1472.3	1634.4	1791.9	1992.4
0°	192.7	245.3	314.8	469.6	562.2	618.0	1084.4	1584.5	1751.9	1923.5	2163.6
-2.5°	195.1	251.0	322.8	465.9	553.9	610.8	1065.5	1567.2	1770.7	1971.0	2221.6
-5°	194.9	255.2	328.8	458.6	543.0	601.4	1028.5	1527.7	1763.9	1962.5	2197.8
-7.5°	192.7	257.7	332.4	447.8	526.3	580.4	957.2	1430.5	1678.1	1853.1	2079.1
-10°	188.8	256.8	327.4	429.4	502.5	551.9	866.1	1315.6	1587.9	1741.3	1942.3
-12.5°	183.9	253.1	319.5	409.8	479.2	522.7	760.5	1185.4	1495.5	1630.3	1794.8
-15°	178.2	248.5	310.3	389.6	457.4	493.3	641.5	1041.9	1404.3	1544.3	1673.1
-17.5°	172.2	243.1	299.9	369.7	437.7	464.1	513.0	885.4	1274.5	1450.7	1581.2
-20°	166.2	237.0	288.4	350.5	419.2	444.8	476.5	734.8	1085.6	1342.6	1480.7



REPORT NUMBER: P731336 (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°	160.6	230.4	277.5	334.8	398.3	434.3	458.8	587.7	886.3	1221.7	1373.3
-25°	158.4	220.6	268.5	320.2	378.5	424.6	442.3	464.0	704.6	1026.0	1264.5
-27.5°	157.9	212.3	258.5	304.5	358.8	412.0	430.5	446.5	569.1	829.6	1138.7
-30°	155.8	201.1	247.3	288.8	339.9	389.7	421.4	439.0	466.6	667.8	925.2
-32.5°	149.0	189.3	234.1	275.4	320.3	368.4	413.8	435.4	458.1	513.4	729.0
-35°	140.1	178.4	220.1	260.9	300.1	347.5	394.2	432.6	449.6	475.4	565.2
-37.5°	131.8	166.4	205.7	245.2	283.2	325.9	373.2	416.2	446.0	465.9	498.0
-40°	122.3	153.4	191.2	229.1	265.5	304.5	348.4	392.8	433.1	467.4	492.1
-42.5°	111.7	141.7	175.7	212.3	246.6	283.5	322.3	365.4	411.0	458.0	493.0
-45°	99.8	128.9	159.6	192.8	226.0	260.6	297.4	336.0	382.3	430.2	476.9
-47.5°	86.8	114.8	143.9	172.0	203.5	236.1	270.5	308.2	349.1	394.6	442.6
-50°	73.2	99.2	126.3	152.2	179.6	209.9	241.7	277.9	316.0	355.8	398.8
-52.5°	59.8	82.5	107.6	132.5	156.8	182.7	212.4	244.9	280.0	316.8	352.7
-55°	45.8	66.5	88.0	111.5	134.9	157.3	182.2	211.4	241.5	274.8	306.7
-57.5°	35.1	50.2	69.2	89.4	111.4	133.4	155.7	177.8	204.3	232.0	258.2
-60°	26.4	36.8	51.0	68.5	86.7	107.4	129.2	150.1	170.3	189.5	212.1
-62.5°	18.6	26.8	36.3	48.2	64.2	80.6	99.4	119.5	139.9	156.5	171.6
-65°	16.9	18.7	25.2	33.7	42.3	56.7	71.7	86.6	104.0	120.0	135.0
-67.5°	15.1	16.8	18.5	21.4	29.1	37.4	45.8	58.9	71.8	83.4	94.7
-70°	13.7	14.9	16.3	17.8	19.4	22.9	30.2	37.5	44.8	53.2	63.3
-72.5°	12.5	13.7	14.7	15.6	17.0	18.7	20.4	22.3	26.5	32.3	38.3
-75°	11.6	12.4	13.5	14.4	15.2	16.1	17.3	18.8	20.3	21.5	22.7
-77.5°	10.9	11.5	12.2	13.1	13.8	14.3	15.0	15.8	16.8	18.0	19.1
-80°	10.2	10.5	10.9	11.4	11.9	12.3	12.7	13.1	13.7	14.4	15.2
-82.5°	9.2	9.4	9.7	9.9	10.1	10.3	10.6	10.9	11.2	11.6	12.0
-85°	8.2	8.4	8.6	8.7	8.7	8.6	8.7	8.7	8.9	9.0	9.2
-87.5°	7.3	7.3	7.4	7.5	7.5	7.5	7.5	7.4	7.5	7.5	7.6
-90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.9	2.7	2.4



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	8.4	8.4	8.4	8.4	8.4	11.3	14.2	17.1	20.0	25.0	30.0
87.5°	2.1	2.1	2.1	2.1	2.1	1.9	1.6	1.4	1.1	1.1	1.1
85°	2.8	2.7	2.5	2.3	2.1	2.1	2.0	2.0	2.0	1.8	1.6
82.5°	3.2	2.9	2.7	2.4	2.1	1.9	1.7	1.5	1.2	1.2	1.1
80°	3.2	3.0	2.7	2.4	2.1	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	3.3	3.2	2.9	2.6	2.2	2.1	2.1	2.1	2.1	1.9	1.7
75°	4.1	4.0	3.9	3.7	3.2	3.0	2.8	2.6	2.2	2.1	2.1
72.5°	7.4	7.4	7.0	6.6	5.8	5.3	5.1	4.9	4.7	4.6	4.5
70°	13.2	13.0	12.3	10.8	8.8	7.5	6.9	6.3	5.6	5.3	5.2
67.5°	18.6	16.5	14.6	12.5	10.0	8.1	7.2	6.1	5.0	4.4	4.4
65°	20.6	16.5	13.7	11.4	9.6	7.8	6.5	5.2	4.1	3.5	3.7
62.5°	18.6	13.7	10.7	8.7	7.2	6.1	5.0	4.2	3.5	3.2	3.3
60°	14.7	10.0	7.3	6.1	5.1	4.3	3.8	3.3	2.8	2.5	2.6
57.5°	10.7	7.1	5.2	4.8	4.2	3.5	3.0	2.9	2.8	2.8	3.0
55°	7.2	6.0	5.3	4.8	4.2	3.6	3.2	3.2	3.2	3.2	3.2
52.5°	6.0	5.7	5.4	4.9	4.3	3.7	3.2	3.2	3.2	3.2	3.2
50°	6.0	5.8	5.5	5.1	4.5	3.9	3.3	3.3	3.6	3.7	3.8
47.5°	6.2	5.9	5.7	5.3	4.8	4.6	4.2	4.3	4.7	4.8	4.8
45°	6.4	6.5	6.4	6.4	5.9	6.0	6.0	6.1	7.5	7.4	6.6
42.5°	8.0	8.4	8.9	9.1	7.8	10.2	13.8	15.5	13.6	11.0	9.3
40°	11.9	12.5	14.9	16.1	19.9	23.4	20.2	16.3	14.6	15.9	16.9
37.5°	18.9	22.5	27.4	33.1	30.8	24.5	24.6	24.6	24.0	26.0	26.0
35°	31.7	39.7	44.6	43.6	40.3	38.5	40.2	42.0	38.0	41.5	42.5
32.5°	51.0	60.7	61.9	58.6	58.8	62.0	67.8	67.0	68.2	72.4	77.2
30°	73.6	85.1	89.5	83.4	79.1	86.7	90.0	92.9	102.2	114.5	125.4
27.5°	110.8	119.2	126.8	120.5	107.9	117.3	124.0	122.1	147.7	161.5	192.2
25°	157.5	169.4	173.8	176.1	171.8	170.1	186.7	195.2	230.7	268.4	332.4
22.5°	215.1	247.5	256.7	244.7	258.1	267.6	278.9	316.9	387.9	503.5	668.4
20°	288.2	354.3	407.4	398.9	367.2	407.7	453.5	573.4	780.9	1247.6	1629.6
17.5°	519.6	520.8	627.0	669.7	617.6	705.4	930.3	1320.3	2178.2	3752.5	4773.1
15°	877.2	900.8	949.7	1006.9	1100.9	1330.2	1783.4	3417.7	5879.0	9284.3	12778.7
12.5°	1256.3	1309.6	1393.3	1440.1	1631.7	2245.5	4189.3	7768.0	12963.2	19518.9	30393.8
10°	1582.0	1724.1	1831.8	1978.2	2472.7	3914.3	7268.4	13452.2	23924.4	38068.1	54784.3
7.5°	1812.4	2020.3	2202.4	2477.7	3504.5	6410.7	12036.2	22323.5	38141.3	58115.0	81158.2
5°	2044.0	2307.1	2511.4	2874.2	4163.6	8283.2	15769.2	30635.8	53476.4	80666.9	111484.8
2.5°	2279.3	2575.1	2800.2	3249.2	4585.2	9232.6	17663.1	35596.5	63616.6	96724.5	134139.8
0°	2516.3	2796.4	3033.2	3540.7	5240.0	10726.4	19447.1	37489.7	64561.4	98356.7	136334.9
-2.5°	2505.3	2690.3	2907.2	3300.4	4779.8	9874.2	18075.4	35430.3	61118.1	92464.9	126905.4
-5°	2410.1	2540.0	2711.9	3059.4	4276.1	8230.5	15632.9	30286.1	53980.9	82700.0	112385.9
-7.5°	2262.1	2371.1	2499.6	2786.4	3695.6	6550.8	12645.2	24291.0	42821.7	63628.5	86392.1
-10°	2120.1	2204.2	2295.5	2494.3	3078.5	4801.2	8970.9	16459.7	29808.7	45374.4	62697.7
-12.5°	1989.2	2056.3	2104.8	2188.9	2479.9	3477.6	6450.0	11805.4	19474.2	29116.3	41895.7
-15°	1855.9	1912.8	1937.8	2005.3	2195.7	2689.5	3887.7	7256.5	12173.9	18400.6	24880.3
-17.5°	1712.8	1780.3	1818.0	1861.4	1944.3	2148.9	2810.0	4226.5	7199.5	11379.7	15553.2
-20°	1595.1	1674.6	1706.9	1737.0	1813.5	1933.7	2122.4	2759.4	3845.3	6448.8	9044.0



REPORT NUMBER: P731336 (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°	1481.4	1553.0	1595.1	1659.7	1758.7	1841.8	1903.7	2055.4	2506.4	3216.8	4485.1
-25°	1377.9	1439.9	1523.1	1647.1	1744.0	1803.5	1815.1	1821.5	1950.1	2091.1	2519.3
-27.5°	1273.7	1361.7	1485.4	1625.4	1740.4	1769.4	1771.0	1768.8	1799.4	1820.8	1927.4
-30°	1181.0	1296.1	1412.9	1562.4	1674.4	1721.5	1741.5	1755.2	1771.0	1790.5	1797.5
-32.5°	991.9	1227.1	1321.7	1441.4	1582.5	1657.1	1694.5	1726.5	1743.9	1760.9	1774.3
-35°	784.2	1032.4	1258.1	1335.5	1435.6	1561.9	1655.9	1694.2	1726.3	1744.5	1761.5
-37.5°	589.8	802.6	1022.1	1227.7	1329.9	1419.2	1539.4	1633.0	1692.0	1715.4	1735.8
-40°	519.7	574.9	768.8	957.4	1137.6	1307.7	1407.5	1520.6	1611.0	1656.7	1692.2
-42.5°	517.1	537.4	557.1	689.6	856.9	1020.9	1175.9	1321.0	1455.1	1546.2	1613.7
-45°	516.5	531.0	547.5	567.2	587.2	715.2	858.5	1002.6	1149.6	1287.5	1411.2
-47.5°	482.9	518.9	538.7	554.5	567.7	584.7	604.0	640.4	760.0	880.6	1001.5
-50°	436.8	472.9	505.8	537.3	553.3	564.3	574.8	586.8	601.9	617.1	632.6
-52.5°	385.3	419.5	453.0	483.2	509.0	533.9	557.6	568.5	576.5	583.9	590.2
-55°	337.2	366.5	394.9	421.6	447.4	471.8	493.9	512.9	530.4	546.4	558.9
-57.5°	286.2	314.1	340.5	362.9	384.3	404.7	424.3	442.5	459.0	473.5	485.7
-60°	234.9	257.9	281.1	302.5	322.9	342.1	358.3	373.3	387.0	399.5	411.0
-62.5°	186.7	204.6	224.2	242.2	258.3	274.0	291.3	306.3	318.9	330.0	340.4
-65°	148.9	161.6	175.7	189.3	202.5	217.4	233.7	248.0	260.3	270.6	279.5
-67.5°	107.5	120.0	133.5	145.8	157.2	169.6	184.7	198.8	212.1	222.8	231.4
-70°	72.4	81.3	91.4	102.4	113.4	125.1	138.3	151.1	163.4	173.3	181.4
-72.5°	44.5	50.3	56.1	63.4	71.0	80.0	90.1	100.3	110.5	118.9	126.0
-75°	23.7	25.7	30.1	34.3	38.2	43.2	48.3	53.2	57.6	61.7	65.4
-77.5°	20.2	21.1	21.8	22.6	23.2	25.2	27.7	30.3	32.9	35.7	38.5
-80°	16.1	16.7	17.4	18.0	18.7	20.2	21.9	23.6	25.2	27.0	28.9
-82.5°	12.4	12.7	13.0	13.3	13.5	14.7	15.9	17.2	18.4	19.9	21.3
-85°	9.4	9.5	9.7	9.8	9.9	10.8	11.8	12.7	13.5	15.1	16.7
-87.5°	7.6	7.6	7.5	7.5	7.5	8.7	9.8	10.8	11.9	13.2	14.4
-90°	2.1	2.1	2.1	2.1	2.1	1.9	1.6	1.4	1.1	0.8	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°	35.0	40.0	42.6	45.3	42.6	40.0	35.0	30.0	25.0	20.0	17.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
85°	1.3	1.1	1.1	1.1	1.1	1.1	1.3	1.6	1.8	2.0	2.0
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.5
80°	2.1	2.1	1.6	1.1	1.6	2.1	2.1	2.0	2.0	2.0	2.0
77.5°	1.4	1.1	1.6	2.1	1.6	1.1	1.4	1.7	1.9	2.1	2.1
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.6
72.5°	4.4	4.2	4.2	4.2	4.2	4.2	4.4	4.5	4.6	4.7	4.9
70°	5.2	5.3	5.3	5.3	5.3	5.3	5.2	5.2	5.3	5.6	6.3
67.5°	4.3	4.2	3.8	3.2	3.8	4.2	4.3	4.4	4.4	5.0	6.1
65°	3.9	4.2	3.8	3.2	3.8	4.2	3.9	3.7	3.5	4.1	5.2
62.5°	3.3	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.2	3.5	4.2
60°	2.8	3.1	3.2	3.2	3.2	3.1	2.8	2.6	2.5	2.8	3.3
57.5°	3.1	3.2	3.2	3.2	3.2	3.2	3.1	3.0	2.8	2.8	2.9
55°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
52.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
50°	3.6	3.3	3.2	3.2	3.2	3.3	3.6	3.8	3.7	3.6	3.3
47.5°	4.6	4.3	4.2	4.2	4.2	4.3	4.6	4.8	4.8	4.7	4.3
45°	6.5	6.3	6.3	6.3	6.3	6.3	6.5	6.6	7.4	7.5	6.1
42.5°	9.4	9.4	9.4	9.5	9.4	9.4	9.4	9.3	11.0	13.6	15.5
40°	17.7	17.8	17.4	16.8	17.4	17.8	17.7	16.9	15.9	14.6	16.3
37.5°	25.9	26.1	26.1	26.3	26.1	26.1	25.9	26.0	26.0	24.0	24.6
35°	41.9	40.9	38.6	39.0	38.6	40.9	41.9	42.5	41.5	38.0	42.0
32.5°	80.3	79.1	74.7	77.9	74.7	79.1	80.3	77.2	72.4	68.2	67.0
30°	135.0	140.4	142.7	142.1	142.7	140.4	135.0	125.4	114.5	102.2	92.9
27.5°	207.9	219.8	227.2	231.6	227.2	219.8	207.9	192.2	161.5	147.7	122.1
25°	378.3	407.7	424.3	446.4	424.3	407.7	378.3	332.4	268.4	230.7	195.2
22.5°	846.0	952.1	1019.6	1067.6	1019.6	952.1	846.0	668.4	503.5	387.9	316.9
20°	2194.9	2186.2	2362.1	2457.3	2362.1	2186.2	2194.9	1629.6	1247.6	780.9	573.4
17.5°	6870.6	7962.4	8239.5	8002.7	8239.5	7962.4	6870.6	4773.1	3752.5	2178.2	1320.3
15°	17660.4	21307.5	22997.6	22974.1	22997.6	21307.5	17660.4	12778.7	9284.3	5879.0	3417.7
12.5°	38082.1	45125.9	49725.1	52507.4	49725.1	45125.9	38082.1	30393.8	19518.9	12963.2	7768.0
10°	69110.3	81176.7	90798.9	95633.0	90798.9	81176.7	69110.3	54784.3	38068.1	23924.4	13452.2
7.5°	102419.9	121943.7	138429.3	145272.5	138429.3	121943.7	102419.9	81158.2	58115.0	38141.3	22323.5
5°	141008.7	172074.1	187503.3	194151.8	187503.3	172074.1	141008.7	111484.8	80666.9	53476.4	30635.8
2.5°	173292.4	204268.9	225834.4	234030.4	225834.4	204268.9	173292.4	134139.8	96724.5	63616.6	35596.5
0°	179754.7	212137.5	235872.3	253053.2	235872.3	212137.5	179754.7	136334.9	98356.7	64561.4	37489.7
-2.5°	166029.2	197670.3	215012.9	222279.1	215012.9	197670.3	166029.2	126905.4	92464.9	61118.1	35430.3
-5°	144335.1	172418.1	188452.1	191672.3	188452.1	172418.1	144335.1	112385.9	82700.0	53980.9	30286.1
-7.5°	110298.1	129738.1	142384.8	144937.7	142384.8	129738.1	110298.1	86392.1	63628.5	42821.7	24291.0
-10°	80213.5	94229.8	102351.5	103230.3	102351.5	94229.8	80213.5	62697.7	45374.4	29808.7	16459.7
-12.5°	53594.8	64577.4	70321.5	71151.8	70321.5	64577.4	53594.8	41895.7	29116.3	19474.2	11805.4
-15°	33585.0	40728.7	44947.4	45861.9	44947.4	40728.7	33585.0	24880.3	18400.6	12173.9	7256.5
-17.5°	20693.4	24306.9	26519.7	27982.5	26519.7	24306.9	20693.4	15553.2	11379.7	7199.5	4226.5
-20°	12099.8	14443.0	15758.0	16355.9	15758.0	14443.0	12099.8	9044.0	6448.8	3845.3	2759.4



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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°	6074.6	7230.7	8018.1	8137.4	8018.1	7230.7	6074.6	4485.1	3216.8	2506.4	2055.4
-25°	2946.1	3268.1	3489.1	3501.8	3489.1	3268.1	2946.1	2519.3	2091.1	1950.1	1821.5
-27.5°	2014.5	2081.4	2124.8	2149.9	2124.8	2081.4	2014.5	1927.4	1820.8	1799.4	1768.8
-30°	1805.0	1815.0	1821.1	1813.0	1821.1	1815.0	1805.0	1797.5	1790.5	1771.0	1755.2
-32.5°	1778.8	1783.5	1786.8	1781.4	1786.8	1783.5	1778.8	1774.3	1760.9	1743.9	1726.5
-35°	1776.8	1789.8	1799.9	1797.2	1799.9	1789.8	1776.8	1761.5	1744.5	1726.3	1694.2
-37.5°	1750.7	1762.1	1769.8	1769.8	1769.8	1762.1	1750.7	1735.8	1715.4	1692.0	1633.0
-40°	1712.0	1727.6	1737.3	1737.2	1737.3	1727.6	1712.0	1692.2	1656.7	1611.0	1520.6
-42.5°	1645.9	1667.8	1678.1	1677.2	1678.1	1667.8	1645.9	1613.7	1546.2	1455.1	1321.0
-45°	1504.0	1574.5	1612.3	1616.1	1612.3	1574.5	1504.0	1411.2	1287.5	1149.6	1002.6
-47.5°	1120.6	1229.2	1295.9	1310.8	1295.9	1229.2	1120.6	1001.5	880.6	760.0	640.4
-50°	648.0	662.6	668.7	666.5	668.7	662.6	648.0	632.6	617.1	601.9	586.8
-52.5°	596.3	602.1	606.6	609.6	606.6	602.1	596.3	590.2	583.9	576.5	568.5
-55°	569.0	576.9	581.9	584.3	581.9	576.9	569.0	558.9	546.4	530.4	512.9
-57.5°	495.7	503.5	507.9	509.6	507.9	503.5	495.7	485.7	473.5	459.0	442.5
-60°	420.6	428.2	432.7	434.8	432.7	428.2	420.6	411.0	399.5	387.0	373.3
-62.5°	349.2	356.4	360.7	363.2	360.7	356.4	349.2	340.4	330.0	318.9	306.3
-65°	287.3	294.1	297.9	300.1	297.9	294.1	287.3	279.5	270.6	260.3	248.0
-67.5°	239.1	246.0	250.4	253.7	250.4	246.0	239.1	231.4	222.8	212.1	198.8
-70°	188.9	195.5	198.0	199.0	198.0	195.5	188.9	181.4	173.3	163.4	151.1
-72.5°	132.3	137.8	141.5	144.2	141.5	137.8	132.3	126.0	118.9	110.5	100.3
-75°	68.8	71.8	74.0	75.8	74.0	71.8	68.8	65.4	61.7	57.6	53.2
-77.5°	41.2	43.9	45.2	46.3	45.2	43.9	41.2	38.5	35.7	32.9	30.3
-80°	30.7	32.4	33.1	33.7	33.1	32.4	30.7	28.9	27.0	25.2	23.6
-82.5°	22.8	24.1	24.7	25.3	24.7	24.1	22.8	21.3	19.9	18.4	17.2
-85°	18.4	20.0	20.5	21.1	20.5	20.0	18.4	16.7	15.1	13.5	12.7
-87.5°	15.7	16.9	17.9	19.0	17.9	16.9	15.7	14.4	13.2	11.9	10.8
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.4



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	14.2	11.3	8.4	8.4	8.4	8.4	8.4	8.1	7.9	7.6	7.4
87.5°	1.6	1.9	2.1	2.1	2.1	2.1	2.1	2.4	2.7	2.9	3.2
85°	2.0	2.1	2.1	2.3	2.5	2.7	2.8	2.9	2.9	3.1	3.2
82.5°	1.7	1.9	2.1	2.4	2.7	2.9	3.2	3.2	3.2	3.2	3.2
80°	2.0	2.0	2.1	2.4	2.7	3.0	3.2	3.2	3.2	3.2	3.2
77.5°	2.1	2.1	2.2	2.6	2.9	3.2	3.3	3.5	3.7	3.8	3.8
75°	2.8	3.0	3.2	3.7	3.9	4.0	4.1	4.0	4.0	4.1	4.2
72.5°	5.1	5.3	5.8	6.6	7.0	7.4	7.4	7.0	6.2	5.1	4.2
70°	6.9	7.5	8.8	10.8	12.3	13.0	13.2	12.8	11.4	10.2	8.2
67.5°	7.2	8.1	10.0	12.5	14.6	16.5	18.6	20.5	20.5	19.0	14.0
65°	6.5	7.8	9.6	11.4	13.7	16.5	20.6	23.5	25.3	26.0	21.5
62.5°	5.0	6.1	7.2	8.7	10.7	13.7	18.6	22.9	27.0	28.2	23.7
60°	3.8	4.3	5.1	6.1	7.3	10.0	14.7	20.1	26.1	26.0	23.6
57.5°	3.0	3.5	4.2	4.8	5.2	7.1	10.7	15.4	21.2	21.7	20.9
55°	3.2	3.6	4.2	4.8	5.3	6.0	7.2	10.1	14.5	15.9	16.2
52.5°	3.2	3.7	4.3	4.9	5.4	5.7	6.0	7.5	8.8	10.8	11.8
50°	3.3	3.9	4.5	5.1	5.5	5.8	6.0	6.3	7.1	7.9	8.6
47.5°	4.2	4.6	4.8	5.3	5.7	5.9	6.2	6.5	6.9	7.0	7.5
45°	6.0	6.0	5.9	6.4	6.4	6.5	6.4	7.1	7.4	7.5	7.4
42.5°	13.8	10.2	7.8	9.1	8.9	8.4	8.0	8.5	8.6	8.4	9.0
40°	20.2	23.4	19.9	16.1	14.9	12.5	11.9	11.0	10.8	10.0	11.7
37.5°	24.6	24.5	30.8	33.1	27.4	22.5	18.9	16.0	13.9	14.7	15.9
35°	40.2	38.5	40.3	43.6	44.6	39.7	31.7	24.3	20.5	20.8	21.3
32.5°	67.8	62.0	58.8	58.6	61.9	60.7	51.0	39.0	31.7	29.3	27.9
30°	90.0	86.7	79.1	83.4	89.5	85.1	73.6	66.1	53.8	39.5	35.6
27.5°	124.0	117.3	107.9	120.5	126.8	119.2	110.8	102.1	81.8	60.0	47.6
25°	186.7	170.1	171.8	176.1	173.8	169.4	157.5	143.3	120.4	91.0	76.3
22.5°	278.9	267.6	258.1	244.7	256.7	247.5	215.1	187.2	182.4	173.1	131.8
20°	453.5	407.7	367.2	398.9	407.4	354.3	288.2	292.8	326.4	294.0	206.1
17.5°	930.3	705.4	617.6	669.7	627.0	520.8	519.6	509.0	498.8	446.0	294.8
15°	1783.4	1330.2	1100.9	1006.9	949.7	900.8	877.2	758.4	698.6	612.4	438.2
12.5°	4189.3	2245.5	1631.7	1440.1	1393.3	1309.6	1256.3	1084.7	927.0	826.3	659.1
10°	7268.4	3914.3	2472.7	1978.2	1831.8	1724.1	1582.0	1373.1	1170.3	1055.7	887.2
7.5°	12036.2	6410.7	3504.5	2477.7	2202.4	2020.3	1812.4	1608.3	1404.0	1279.1	1117.4
5°	15769.2	8283.2	4163.6	2874.2	2511.4	2307.1	2044.0	1811.5	1628.5	1496.1	1343.3
2.5°	17663.1	9232.6	4585.2	3249.2	2800.2	2575.1	2279.3	1992.4	1791.9	1634.4	1472.3
0°	19447.1	10726.4	5240.0	3540.7	3033.2	2796.4	2516.3	2163.6	1923.5	1751.9	1584.5
-2.5°	18075.4	9874.2	4779.8	3300.4	2907.2	2690.3	2505.3	2221.6	1971.0	1770.7	1567.2
-5°	15632.9	8230.5	4276.1	3059.4	2711.9	2540.0	2410.1	2197.8	1962.5	1763.9	1527.7
-7.5°	12645.2	6550.8	3695.6	2786.4	2499.6	2371.1	2262.1	2079.1	1853.1	1678.1	1430.5
-10°	8970.9	4801.2	3078.5	2494.3	2295.5	2204.2	2120.1	1942.3	1741.3	1587.9	1315.6
-12.5°	6450.0	3477.6	2479.9	2188.9	2104.8	2056.3	1989.2	1794.8	1630.3	1495.5	1185.4
-15°	3887.7	2689.5	2195.7	2005.3	1937.8	1912.8	1855.9	1673.1	1544.3	1404.3	1041.9
-17.5°	2810.0	2148.9	1944.3	1861.4	1818.0	1780.3	1712.8	1581.2	1450.7	1274.5	885.4
-20°	2122.4	1933.7	1813.5	1737.0	1706.9	1674.6	1595.1	1480.7	1342.6	1085.6	734.8



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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°	1903.7	1841.8	1758.7	1659.7	1595.1	1553.0	1481.4	1373.3	1221.7	886.3	587.7
-25°	1815.1	1803.5	1744.0	1647.1	1523.1	1439.9	1377.9	1264.5	1026.0	704.6	464.0
-27.5°	1771.0	1769.4	1740.4	1625.4	1485.4	1361.7	1273.7	1138.7	829.6	569.1	446.5
-30°	1741.5	1721.5	1674.4	1562.4	1412.9	1296.1	1181.0	925.2	667.8	466.6	439.0
-32.5°	1694.5	1657.1	1582.5	1441.4	1321.7	1227.1	991.9	729.0	513.4	458.1	435.4
-35°	1655.9	1561.9	1435.6	1335.5	1258.1	1032.4	784.2	565.2	475.4	449.6	432.6
-37.5°	1539.4	1419.2	1329.9	1227.7	1022.1	802.6	589.8	498.0	465.9	446.0	416.2
-40°	1407.5	1307.7	1137.6	957.4	768.8	574.9	519.7	492.1	467.4	433.1	392.8
-42.5°	1175.9	1020.9	856.9	689.6	557.1	537.4	517.1	493.0	458.0	411.0	365.4
-45°	858.5	715.2	587.2	567.2	547.5	531.0	516.5	476.9	430.2	382.3	336.0
-47.5°	604.0	584.7	567.7	554.5	538.7	518.9	482.9	442.6	394.6	349.1	308.2
-50°	574.8	564.3	553.3	537.3	505.8	472.9	436.8	398.8	355.8	316.0	277.9
-52.5°	557.6	533.9	509.0	483.2	453.0	419.5	385.3	352.7	316.8	280.0	244.9
-55°	493.9	471.8	447.4	421.6	394.9	366.5	337.2	306.7	274.8	241.5	211.4
-57.5°	424.3	404.7	384.3	362.9	340.5	314.1	286.2	258.2	232.0	204.3	177.8
-60°	358.3	342.1	322.9	302.5	281.1	257.9	234.9	212.1	189.5	170.3	150.1
-62.5°	291.3	274.0	258.3	242.2	224.2	204.6	186.7	171.6	156.5	139.9	119.5
-65°	233.7	217.4	202.5	189.3	175.7	161.6	148.9	135.0	120.0	104.0	86.6
-67.5°	184.7	169.6	157.2	145.8	133.5	120.0	107.5	94.7	83.4	71.8	58.9
-70°	138.3	125.1	113.4	102.4	91.4	81.3	72.4	63.3	53.2	44.8	37.5
-72.5°	90.1	80.0	71.0	63.4	56.1	50.3	44.5	38.3	32.3	26.5	22.3
-75°	48.3	43.2	38.2	34.3	30.1	25.7	23.7	22.7	21.5	20.3	18.8
-77.5°	27.7	25.2	23.2	22.6	21.8	21.1	20.2	19.1	18.0	16.8	15.8
-80°	21.9	20.2	18.7	18.0	17.4	16.7	16.1	15.2	14.4	13.7	13.1
-82.5°	15.9	14.7	13.5	13.3	13.0	12.7	12.4	12.0	11.6	11.2	10.9
-85°	11.8	10.8	9.9	9.8	9.7	9.5	9.4	9.2	9.0	8.9	8.7
-87.5°	9.8	8.7	7.5	7.5	7.5	7.6	7.6	7.6	7.5	7.5	7.4
-90°	1.6	1.9	2.1	2.1	2.1	2.1	2.1	2.4	2.7	2.9	3.2





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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°	7.1	6.9	6.6	6.3	6.3	6.3	6.3	6.3	6.1	5.8	5.6
87.5°	3.2	3.2	3.2	3.2	3.3	3.5	3.5	3.6	3.7	3.9	4.0
85°	3.3	3.3	3.4	3.4	3.5	3.7	3.9	4.0	4.0	4.0	4.1
82.5°	3.5	3.7	3.8	3.9	3.9	4.0	4.1	4.2	4.2	4.2	4.2
80°	3.5	3.7	4.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	3.8	3.9	4.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	4.2	4.1	4.1	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°	6.1	4.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	9.6	7.2	5.5	4.4	4.2	4.2	4.2	4.3	4.4	4.2	4.2
65°	15.6	10.8	7.2	5.8	4.7	4.2	4.2	4.4	4.6	4.4	4.2
62.5°	19.4	14.9	10.5	7.5	5.7	4.7	4.2	4.5	4.7	4.7	4.4
60°	20.8	16.5	13.4	10.3	7.3	5.3	4.7	4.5	4.8	5.0	4.7
57.5°	18.8	16.9	14.9	12.5	9.5	6.5	5.2	4.9	4.8	5.1	5.0
55°	15.7	14.8	15.7	14.0	11.3	8.2	6.0	5.3	5.0	5.1	5.3
52.5°	11.8	13.2	15.1	15.1	12.8	9.8	7.4	5.7	5.3	5.2	5.4
50°	8.9	11.4	14.3	15.4	14.2	11.3	8.5	6.6	5.7	5.3	5.5
47.5°	8.3	10.4	12.8	15.7	15.3	12.7	9.7	7.4	6.1	5.6	5.6
45°	8.9	10.3	12.1	14.5	16.2	13.5	10.8	8.0	6.6	6.0	5.8
42.5°	10.1	11.2	12.4	13.6	15.3	14.1	11.8	8.8	7.0	6.4	6.0
40°	12.6	12.7	13.1	14.3	14.6	14.4	12.1	9.6	7.2	6.8	6.4
37.5°	15.7	15.2	14.8	16.1	14.9	14.2	12.3	10.2	8.0	7.3	6.7
35°	20.6	18.8	18.3	19.1	17.5	14.5	12.3	10.6	9.1	7.9	7.0
32.5°	26.4	24.8	24.2	22.9	21.0	15.3	12.6	11.5	10.2	8.5	7.3
30°	34.8	36.0	31.5	27.3	25.1	18.5	14.0	12.6	11.4	9.1	7.7
27.5°	51.7	50.2	40.7	33.8	29.3	23.0	17.1	13.9	12.5	9.9	8.2
25°	73.5	67.5	54.6	41.7	33.8	37.0	20.8	15.3	13.6	10.9	8.7
22.5°	102.4	87.6	70.7	50.3	54.4	55.8	28.5	18.2	14.7	11.8	9.3
20°	135.7	110.2	94.9	83.8	79.6	74.3	42.2	21.4	15.9	12.7	9.8
17.5°	178.2	157.1	152.3	127.1	107.8	94.7	58.5	24.9	17.2	13.6	10.4
15°	293.4	232.0	213.8	175.5	137.7	116.4	76.7	28.5	18.5	14.4	10.9
12.5°	438.4	307.3	278.5	227.9	169.0	139.3	96.3	32.2	19.8	15.2	11.3
10°	598.5	382.5	345.4	282.9	201.1	162.8	116.6	36.6	22.0	16.1	11.6
7.5°	767.1	457.4	413.6	339.1	232.9	185.5	137.7	42.5	24.4	16.9	11.9
5°	923.3	522.1	470.1	386.4	261.3	206.4	157.9	48.3	26.9	17.7	12.2
2.5°	1012.2	571.0	517.5	429.8	288.8	226.4	176.5	53.8	29.3	18.4	12.4
0°	1084.4	618.0	562.2	469.6	314.8	245.3	192.7	59.0	31.6	19.0	12.6
-2.5°	1065.5	610.8	553.9	465.9	322.8	251.0	195.1	68.5	39.1	23.9	15.1
-5°	1028.5	601.4	543.0	458.6	328.8	255.2	194.9	77.4	46.2	28.6	17.4
-7.5°	957.2	580.4	526.3	447.8	332.4	257.7	192.7	85.5	52.9	32.9	19.6
-10°	866.1	551.9	502.5	429.4	327.4	256.8	188.8	92.7	58.9	36.9	21.5
-12.5°	760.5	522.7	479.2	409.8	319.5	253.1	183.9	99.0	64.3	40.3	23.1
-15°	641.5	493.3	457.4	389.6	310.3	248.5	178.2	104.1	68.9	43.3	24.4
-17.5°	513.0	464.1	437.7	369.7	299.9	243.1	172.2	108.1	72.7	46.1	25.7
-20°	476.5	444.8	419.2	350.5	288.4	237.0	166.2	110.9	75.7	48.1	26.9



REPORT NUMBER: P731336 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-CV5

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	458.8	434.3	398.3	334.8	277.5	230.4	160.6	112.5	77.9	49.5	27.4
-25°	442.3	424.6	378.5	320.2	268.5	220.6	158.4	112.8	79.1	50.0	27.4
-27.5°	430.5	412.0	358.8	304.5	258.5	212.3	157.9	113.7	79.5	49.7	26.7
-30°	421.4	389.7	339.9	288.8	247.3	201.1	155.8	113.6	79.0	48.8	25.3
-32.5°	413.8	368.4	320.3	275.4	234.1	189.3	149.0	112.2	77.3	47.1	24.4
-35°	394.2	347.5	300.1	260.9	220.1	178.4	140.1	109.6	74.4	44.5	23.4
-37.5°	373.2	325.9	283.2	245.2	205.7	166.4	131.8	101.8	70.3	40.8	21.9
-40°	348.4	304.5	265.5	229.1	191.2	153.4	122.3	92.9	65.1	36.1	19.9
-42.5°	322.3	283.5	246.6	212.3	175.7	141.7	111.7	83.1	57.0	32.4	17.4
-45°	297.4	260.6	226.0	192.8	159.6	128.9	99.8	72.4	47.9	28.9	15.5
-47.5°	270.5	236.1	203.5	172.0	143.9	114.8	86.8	61.7	38.4	24.8	14.9
-50°	241.7	209.9	179.6	152.2	126.3	99.2	73.2	50.3	32.5	19.6	14.2
-52.5°	212.4	182.7	156.8	132.5	107.6	82.5	59.8	38.8	26.3	17.0	13.3
-55°	182.2	157.3	134.9	111.5	88.0	66.5	45.8	31.5	19.8	15.6	12.3
-57.5°	155.7	133.4	111.4	89.4	69.2	50.2	35.1	23.9	17.1	14.2	12.0
-60°	129.2	107.4	86.7	68.5	51.0	36.8	26.4	18.1	15.6	13.0	11.5
-62.5°	99.4	80.6	64.2	48.2	36.3	26.8	18.6	16.5	14.0	12.3	11.0
-65°	71.7	56.7	42.3	33.7	25.2	18.7	16.9	14.8	13.0	11.6	10.4
-67.5°	45.8	37.4	29.1	21.4	18.5	16.8	15.1	13.5	12.1	10.9	9.9
-70°	30.2	22.9	19.4	17.8	16.3	14.9	13.7	12.4	11.2	10.4	9.4
-72.5°	20.4	18.7	17.0	15.6	14.7	13.7	12.5	11.4	10.7	9.9	8.9
-75°	17.3	16.1	15.2	14.4	13.5	12.4	11.6	10.9	10.2	9.4	8.4
-77.5°	15.0	14.3	13.8	13.1	12.2	11.5	10.9	10.5	9.7	8.7	7.8
-80°	12.7	12.3	11.9	11.4	10.9	10.5	10.2	9.8	8.9	8.1	7.2
-82.5°	10.6	10.3	10.1	9.9	9.7	9.4	9.2	8.9	8.1	7.4	6.7
-85°	8.7	8.6	8.7	8.7	8.6	8.4	8.2	8.1	7.4	6.8	6.3
-87.5°	7.5	7.5	7.5	7.5	7.4	7.3	7.3	7.2	6.7	6.3	5.9
-90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.5	3.7	4.0



REPORT NUMBER: P731336 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.3	5.0	4.8	4.5	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	4.3	4.2	4.2	4.2	4.2	4.2
72.5°	4.3	4.4	4.3	4.2	4.2	4.2	4.2
70°	4.3	4.4	4.4	4.2	4.2	4.2	4.2
67.5°	4.3	4.5	4.5	4.3	4.2	4.2	4.2
65°	4.3	4.6	4.6	4.4	4.2	4.2	4.2
62.5°	4.4	4.6	4.8	4.6	4.2	4.2	4.2
60°	4.4	4.7	4.9	4.7	4.2	4.2	4.2
57.5°	4.7	4.7	4.9	4.8	4.3	4.2	4.2
55°	4.9	4.7	4.9	4.9	4.4	4.2	4.2
52.5°	5.2	4.8	5.0	5.0	4.4	4.2	4.2
50°	5.5	5.0	5.0	5.1	4.5	4.2	4.2
47.5°	5.7	5.2	5.0	5.2	4.6	4.2	4.2
45°	5.8	5.4	5.1	5.3	4.7	4.2	4.2
42.5°	6.0	5.6	5.1	5.3	4.7	4.2	4.2
40°	6.2	5.8	5.2	5.3	4.8	4.2	4.2
37.5°	6.3	6.0	5.3	5.3	4.8	4.2	4.2
35°	6.5	6.1	5.5	5.4	4.9	4.2	4.2
32.5°	6.8	6.3	5.6	5.4	5.0	4.2	4.2
30°	7.0	6.5	5.8	5.4	5.0	4.2	4.2
27.5°	7.3	6.6	5.9	5.5	5.1	4.2	4.2
25°	7.5	6.8	6.0	5.6	5.1	4.2	4.2
22.5°	7.8	7.0	6.1	5.6	5.1	4.2	4.2
20°	8.0	7.1	6.1	5.7	5.2	4.2	4.2
17.5°	8.2	7.1	6.2	5.8	5.2	4.2	4.2
15°	8.4	7.2	6.2	5.8	5.2	4.2	4.2
12.5°	8.6	7.3	6.3	5.9	5.2	4.2	4.2
10°	8.8	7.3	6.3	6.0	5.3	4.2	4.2
7.5°	9.0	7.4	6.3	6.1	5.3	4.2	4.2
5°	9.2	7.4	6.3	6.2	5.3	4.2	4.2
2.5°	9.3	7.4	6.3	6.2	5.3	4.2	4.2
0°	9.5	7.4	6.3	6.3	5.3	4.2	4.2
-2.5°	10.3	7.6	6.5	6.4	5.3	4.2	4.2
-5°	11.1	7.8	6.7	6.4	5.4	4.2	4.2
-7.5°	11.8	8.0	6.8	6.5	5.4	4.3	4.2
-10°	12.5	8.2	7.0	6.5	5.4	4.3	4.2
-12.5°	13.0	8.4	7.2	6.6	5.5	4.3	4.2
-15°	13.4	8.6	7.3	6.6	5.5	4.3	4.2
-17.5°	13.6	8.7	7.5	6.7	5.5	4.4	4.2
-20°	13.9	8.9	7.6	6.7	5.5	4.4	4.2



REPORT NUMBER: P731336 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	14.2	9.0	7.7	6.7	5.5	4.4	4.2
-25°	14.3	9.2	7.8	6.7	5.5	4.4	4.2
-27.5°	14.0	9.4	7.8	6.7	5.5	4.4	4.2
-30°	13.5	9.5	7.9	6.7	5.5	4.4	4.2
-32.5°	12.6	9.5	7.9	6.7	5.5	4.4	4.2
-35°	12.4	9.5	7.9	6.7	5.5	4.5	4.2
-37.5°	12.3	9.5	7.9	6.6	5.5	4.5	4.2
-40°	12.2	9.5	7.9	6.6	5.5	4.5	4.2
-42.5°	11.9	9.4	7.9	6.5	5.4	4.5	4.2
-45°	11.6	9.4	7.8	6.5	5.4	4.5	4.2
-47.5°	11.1	9.3	7.7	6.4	5.4	4.5	4.2
-50°	10.9	9.1	7.6	6.4	5.3	4.5	4.2
-52.5°	10.7	9.0	7.5	6.3	5.3	4.5	4.2
-55°	10.4	8.8	7.4	6.2	5.3	4.5	4.2
-57.5°	10.2	8.6	7.2	6.1	5.2	4.4	4.2
-60°	9.9	8.4	7.1	6.0	5.2	4.4	4.2
-62.5°	9.5	8.1	6.9	5.9	5.1	4.4	4.2
-65°	9.1	7.8	6.7	5.8	5.0	4.4	4.2
-67.5°	8.7	7.5	6.5	5.7	5.0	4.4	4.2
-70°	8.3	7.2	6.3	5.5	4.9	4.4	4.2
-72.5°	7.8	6.9	6.1	5.4	4.8	4.4	4.2
-75°	7.3	6.5	5.8	5.3	4.7	4.3	4.2
-77.5°	6.9	6.2	5.6	5.2	4.7	4.3	4.2
-80°	6.3	5.9	5.5	5.0	4.6	4.3	4.2
-82.5°	6.1	5.7	5.3	4.9	4.5	4.3	4.2
-85°	5.8	5.5	5.1	4.8	4.4	4.2	4.2
-87.5°	5.6	5.2	4.9	4.6	4.3	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

