

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: P731478 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-2S-CV1**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731478 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0530N-40-80-2S-CV1  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 2S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

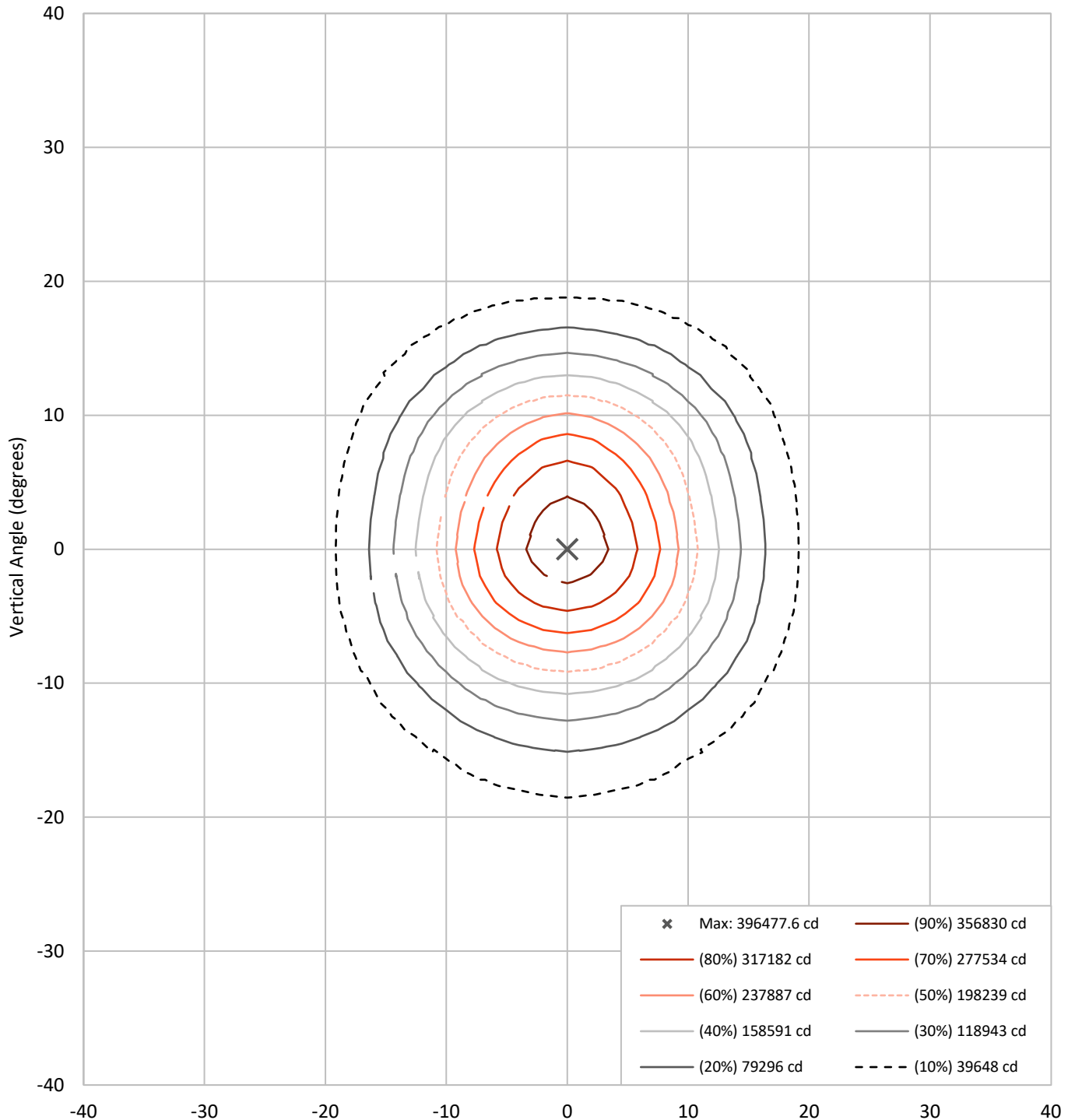
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	64110.8 lumens	Max Intensity:	396477.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	114.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.6°H x 20.7°V	Field Angle (10%):	38.3°H x 37.3°V
Beam Lumens:	29770.2 lumens	Field Lumens:	54197.8 lumens
Beam Efficiency:	46.4%	Field Efficiency:	84.5%

Input Watts (W): 561.4  
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





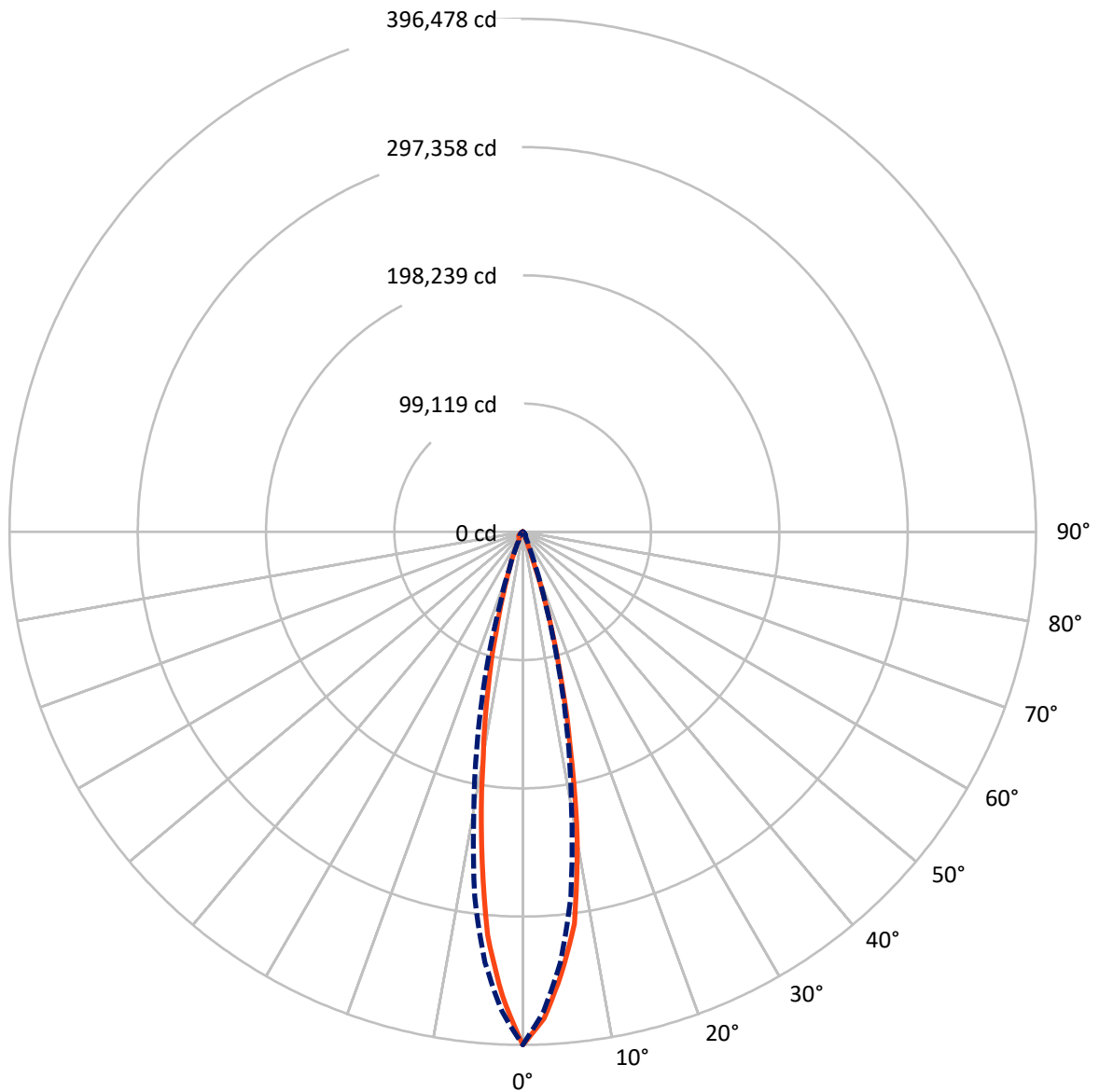
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### Lumen Table

90	0.1		0.2		0.4		0.4		0.4		0.4		0.4		0.2		0.1	
80	0.1		0.2		0.4		0.4		0.4		0.4		0.4		0.2		0.1	
70	0.1		0.1	0.1	0.5	0.6	0.3	0.2	0.2	0.2	0.2	0.3	0.6	0.5	0.1	0.1	0.1	
60	0.1		0.1	0.3	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.3	0.1	0.1	
50	0.1		0.2	0.4	0.4	0.5	0.9	1.5	1.0	1.0	1.5	0.9	0.5	0.4	0.4	0.2	0.1	
40	0.1		0.2	0.8	2.2	4.2	6.2	8.5	10.3	10.3	8.5	6.2	4.2	2.2	0.8	0.2	0.1	
30	0.2		0.5	4.1	12.9	30.7	46.6	80.6	152.7	152.7	80.6	46.6	30.7	12.9	4.1	0.5	0.2	
20	0.2		1.2	8.6	34.3	78.5	146.8	959.2	2972.3	2972.3	959.2	146.8	78.5	34.3	8.6	1.2	0.2	
10	0.3		1.9	11.2	46.0	93.3	294.2	2819.2	8449.2	8449.2	2819.2	294.2	93.3	46.0	11.2	1.9	0.3	
0	0.3		2.3	12.0	46.1	93.1	280.4	2651.5	7684.4	7684.4	2651.5	280.4	93.1	46.1	12.0	2.3	0.3	
-10	0.5		2.7	11.4	36.9	78.7	136.4	780.0	2258.5	2258.5	780.0	136.4	78.7	36.9	11.4	2.7	0.5	
-20	0.5		2.8	10.8	26.2	70.5	105.3	159.9	309.2	309.2	159.9	105.3	70.5	26.2	10.8	2.8	0.5	
-30	0.4		2.4	9.3	19.7	49.2	102.2	132.8	148.4	148.4	132.8	102.2	49.2	19.7	9.3	2.4	0.4	
-40	0.4		1.7	6.9	16.2	29.1	49.3	84.2	112.2	112.2	84.2	49.3	29.1	16.2	6.9	1.7	0.4	
-50	0.3		0.9	4.1	10.7	20.7	31.4	40.8	46.2	46.2	40.8	31.4	20.7	10.7	4.1	0.9	0.3	
-60	0.3		0.4	1.4	4.4	9.1	14.6	20.1	23.3	23.3	20.1	14.6	9.1	4.4	1.4	0.4	0.3	
-70	0.2		1.0		3.1		7.2		9.7		7.2		3.1		1.0		0.2	
-80	0.2		1.0		3.1		7.2		9.7		7.2		3.1		1.0		0.2	
-90	0.2		1.0		3.1		7.2		9.7		7.2		3.1		1.0		0.2	

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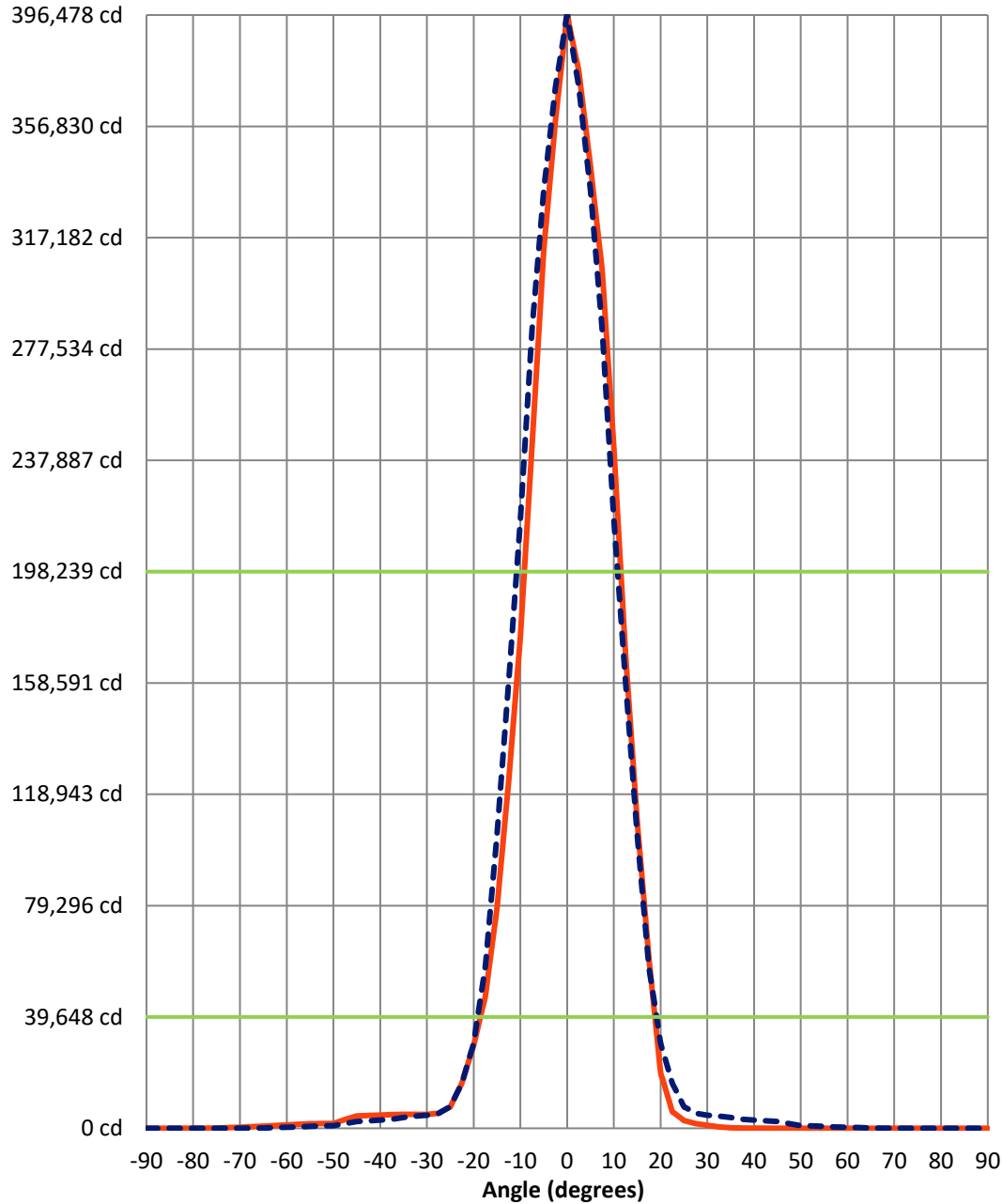
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 21.6°  
V Angle: 20.7°  
Lumens: 29770.2  
Efficiency: 46.4%

**Field:**  
H Angle: 38.3°  
V Angle: 37.3°  
Lumens: 54197.8  
Efficiency: 84.5%

**Spill:**  
Lumens: 9912.9  
Efficiency: 15.5%

— 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°	4.7	5.5	6.3	6.7	7.1	7.4	7.8	8.2	8.6	9.0	9.4
87.5°	4.7	4.7	4.7	4.4	4.0	3.8	3.5	3.5	3.4	3.3	3.1
85°	4.7	4.8	4.7	4.4	4.2	4.0	3.9	3.8	3.7	3.4	3.1
82.5°	4.7	4.8	4.7	4.5	4.3	4.3	4.3	4.2	3.9	3.7	3.5
80°	4.7	4.8	4.7	4.5	4.5	4.5	4.7	4.4	4.2	4.2	4.2
77.5°	4.7	4.9	4.7	4.6	4.6	4.7	4.7	4.5	4.5	4.6	4.7
75°	4.7	4.9	4.7	4.6	4.7	4.8	4.7	4.6	4.7	4.7	4.7
72.5°	4.7	5.0	4.7	4.7	4.9	4.9	4.8	4.7	4.7	4.7	4.7
70°	4.7	5.0	4.8	4.7	5.0	5.1	4.8	4.7	4.7	4.7	4.8
67.5°	4.7	5.0	4.8	4.9	5.2	5.2	4.9	4.7	4.7	4.9	4.9
65°	4.7	5.1	4.8	5.0	5.3	5.3	4.9	4.7	5.0	5.2	5.0
62.5°	4.7	5.1	4.9	5.2	5.5	5.3	5.0	5.0	5.4	5.5	5.1
60°	4.7	5.2	4.9	5.4	5.7	5.4	5.0	5.4	5.8	5.5	5.2
57.5°	4.7	5.2	5.0	5.5	5.7	5.4	5.4	5.9	6.0	5.6	5.7
55°	4.7	5.2	5.2	5.7	5.8	5.5	5.8	6.3	6.0	5.8	6.3
52.5°	4.7	5.3	5.3	5.9	5.8	5.5	6.2	6.4	6.1	6.4	6.9
50°	4.7	5.3	5.4	6.1	5.9	5.9	6.5	6.5	6.3	6.9	8.5
47.5°	4.7	5.4	5.5	6.2	5.9	6.2	6.9	6.6	6.8	7.5	10.0
45°	4.7	5.4	5.6	6.2	6.0	6.5	6.9	6.7	7.3	8.6	11.3
42.5°	4.7	5.5	5.7	6.3	6.0	6.8	7.0	7.0	7.9	9.6	13.0
40°	4.7	5.5	5.8	6.3	6.2	7.1	7.1	7.5	8.6	10.4	14.8
37.5°	4.7	5.6	5.9	6.3	6.4	7.3	7.2	8.1	9.5	11.7	16.4
35°	4.7	5.6	6.0	6.4	6.6	7.5	7.2	8.6	10.4	13.6	17.8
32.5°	4.7	5.7	6.0	6.5	6.8	7.5	7.4	9.2	11.3	15.5	19.7
30°	4.7	5.7	6.1	6.5	7.0	7.6	7.9	9.9	12.1	17.5	21.8
27.5°	4.7	5.8	6.1	6.6	7.2	7.7	8.4	10.5	13.2	19.4	24.0
25°	4.7	5.8	6.2	6.7	7.3	7.7	8.8	11.2	14.8	21.3	26.4
22.5°	4.7	5.9	6.2	6.8	7.4	7.8	9.3	11.8	16.3	23.2	30.6
20°	4.7	5.9	6.2	6.9	7.5	7.9	9.8	12.4	17.8	25.1	35.5
17.5°	4.7	6.0	6.3	7.0	7.6	8.1	10.2	12.9	19.3	27.0	40.7
15°	4.7	6.0	6.3	7.1	7.7	8.3	10.7	13.4	20.6	28.9	46.3
12.5°	4.7	6.1	6.3	7.2	7.7	8.4	11.1	13.9	21.8	30.7	52.0
10°	4.7	6.1	6.3	7.4	7.8	8.6	11.4	14.4	22.8	33.1	57.8
7.5°	4.7	6.2	6.3	7.5	7.8	8.8	11.8	14.8	23.6	35.6	63.7
5°	4.7	6.2	6.3	7.6	7.8	9.0	12.1	15.1	24.2	38.0	69.1
2.5°	4.7	6.3	6.3	7.7	7.8	9.2	12.4	15.4	24.7	40.3	74.1
0°	4.7	6.3	6.3	7.8	7.8	9.4	12.6	15.7	25.1	42.4	78.5
-2.5°	4.7	6.3	6.4	7.9	8.1	9.9	13.8	19.4	32.7	55.8	97.9
-5°	4.7	6.4	6.4	8.0	8.4	10.4	15.0	22.9	40.0	68.7	116.1
-7.5°	4.7	6.4	6.5	8.1	8.6	10.9	16.1	26.2	46.8	80.6	133.1
-10°	4.7	6.4	6.6	8.1	8.9	11.3	17.1	29.1	52.8	91.3	148.3
-12.5°	4.7	6.4	6.6	8.2	9.1	11.7	17.9	31.6	58.1	100.6	161.3
-15°	4.7	6.4	6.7	8.3	9.4	12.0	18.6	33.6	63.2	108.5	171.9
-17.5°	4.7	6.5	6.8	8.3	9.6	12.3	19.1	36.0	68.3	115.1	179.9
-20°	4.7	6.5	6.8	8.3	9.7	12.6	19.7	38.3	72.1	120.3	185.0



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-CV1

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.7	6.5	6.9	8.4	9.9	12.8	20.5	39.6	74.5	123.9	187.2
-25°	4.7	6.5	6.9	8.4	10.0	13.0	20.8	40.0	75.5	126.0	186.2
-27.5°	4.7	6.5	7.0	8.4	10.1	13.2	20.6	39.3	74.8	126.7	187.6
-30°	4.7	6.5	7.1	8.4	10.2	13.2	20.0	37.5	73.7	125.8	187.2
-32.5°	4.7	6.5	7.1	8.3	10.3	13.2	18.8	36.3	71.5	122.7	184.7
-35°	4.7	6.4	7.2	8.3	10.4	13.1	18.3	35.0	67.7	117.3	180.1
-37.5°	4.7	6.4	7.2	8.3	10.4	13.0	18.1	32.8	62.2	109.5	169.0
-40°	4.7	6.4	7.3	8.2	10.4	13.0	17.8	29.8	55.0	101.2	155.2
-42.5°	4.7	6.4	7.3	8.2	10.4	13.0	17.4	26.0	49.3	89.7	139.2
-45°	4.7	6.4	7.4	8.1	10.4	13.0	16.7	23.0	44.0	76.4	121.6
-47.5°	4.7	6.3	7.4	8.1	10.3	12.9	16.0	22.1	37.5	61.9	104.9
-50°	4.7	6.3	7.5	8.1	10.2	12.8	15.7	21.0	29.8	53.0	86.6
-52.5°	4.7	6.3	7.5	8.2	10.1	12.6	15.5	19.7	26.1	43.3	67.6
-55°	4.7	6.2	7.5	8.3	9.9	12.4	15.2	18.3	24.2	32.8	55.4
-57.5°	4.7	6.2	7.6	8.3	9.8	12.1	14.8	17.8	22.1	28.4	42.4
-60°	4.7	6.2	7.6	8.3	9.6	11.8	14.4	17.3	20.2	25.6	32.1
-62.5°	4.7	6.1	7.5	8.3	9.5	11.5	13.9	16.6	19.3	22.7	28.6
-65°	4.7	6.1	7.4	8.2	9.3	11.1	13.4	15.9	18.4	21.2	25.0
-67.5°	4.7	6.0	7.3	8.2	9.2	10.7	12.9	15.1	17.4	20.0	22.8
-70°	4.7	6.0	7.2	8.1	9.0	10.4	12.3	14.3	16.4	18.7	21.2
-72.5°	4.7	5.9	7.1	8.0	8.8	10.0	11.6	13.4	15.2	17.3	19.6
-75°	4.7	5.9	7.0	7.8	8.6	9.6	11.0	12.5	14.1	15.9	17.8
-77.5°	4.7	5.8	6.9	7.6	8.3	9.1	10.2	11.6	13.1	14.5	16.0
-80°	4.7	5.8	6.8	7.4	8.1	8.8	9.5	10.7	12.1	13.3	14.6
-82.5°	4.7	5.7	6.7	7.3	7.8	8.4	9.0	10.0	11.0	12.2	13.4
-85°	4.7	5.6	6.6	7.1	7.6	8.1	8.6	9.4	10.2	11.1	12.1
-87.5°	4.7	5.6	6.4	6.9	7.3	7.8	8.2	8.8	9.4	10.1	10.7
-90°	4.7	4.7	4.7	4.3	3.9	3.5	3.1	3.1	3.1	3.1	3.1





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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-CV1

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	9.4	9.4	9.4	9.4	9.8	10.2	10.6	11.0	11.4	11.8	12.2
87.5°	2.9	2.7	2.6	2.5	2.3	2.1	1.9	1.6	1.6	1.6	1.6
85°	3.1	3.1	3.1	3.1	2.7	2.4	2.0	1.6	1.6	1.6	1.6
82.5°	3.6	3.5	3.4	3.1	2.8	2.4	2.0	1.8	1.8	1.8	1.8
80°	4.2	4.0	3.6	3.2	2.9	2.8	2.8	2.8	2.7	2.5	2.3
77.5°	4.4	4.0	3.6	3.2	3.1	3.4	3.7	3.9	3.9	3.7	3.5
75°	4.4	4.0	3.9	3.9	4.1	4.4	4.7	4.7	4.6	4.4	4.4
72.5°	4.5	4.4	4.4	4.7	4.7	4.7	4.7	4.7	6.0	7.7	8.9
70°	4.6	4.7	4.7	4.7	4.7	5.2	7.3	10.4	13.7	15.4	17.0
67.5°	4.7	4.7	4.7	4.9	6.0	8.4	11.9	18.7	25.9	27.7	27.4
65°	4.7	4.7	5.3	6.4	7.7	13.5	20.9	29.3	35.7	34.7	32.4
62.5°	4.7	5.4	6.4	8.7	13.3	20.3	26.9	33.0	39.1	38.0	32.8
60°	5.4	6.2	8.8	13.4	18.5	23.5	29.8	33.8	37.8	38.7	29.6
57.5°	6.1	8.0	12.4	17.2	21.5	25.2	27.6	31.0	32.4	31.5	23.1
55°	7.4	10.6	15.3	19.9	23.0	22.0	23.5	24.6	24.2	22.3	16.4
52.5°	9.6	13.1	17.7	21.5	21.9	19.9	18.6	18.8	17.3	14.7	12.8
50°	11.6	15.5	19.7	21.9	21.0	17.8	14.9	14.4	13.4	12.1	11.0
47.5°	13.6	17.9	21.2	22.4	19.4	16.6	13.7	12.8	12.1	12.4	11.7
45°	15.7	19.7	23.1	21.2	18.5	16.3	15.1	12.6	14.1	15.1	15.7
42.5°	17.7	21.3	22.7	20.3	18.8	18.7	18.5	17.9	18.8	22.6	24.9
40°	19.2	22.8	22.7	22.2	20.6	23.7	26.6	28.9	29.1	34.1	38.1
37.5°	20.5	23.4	24.7	27.9	26.4	32.1	37.0	56.6	57.4	47.4	64.3
35°	21.7	24.6	32.5	41.4	45.0	43.8	71.5	97.3	103.6	93.2	110.6
32.5°	23.1	26.4	43.1	64.0	82.9	84.2	115.9	157.1	178.6	185.9	195.5
30°	25.5	36.2	59.4	92.4	137.9	175.1	190.3	234.5	274.3	354.2	410.0
27.5°	30.0	49.1	86.7	143.2	213.0	283.3	307.4	338.1	442.6	584.1	724.0
25°	35.6	76.1	117.8	210.4	317.2	395.2	425.9	467.2	664.7	938.1	1098.8
22.5°	49.8	111.0	164.9	287.9	432.7	504.2	544.3	693.0	995.1	1358.1	1521.1
20°	75.3	152.6	222.2	352.6	548.7	612.4	657.3	966.8	1406.5	1751.4	2006.9
17.5°	104.7	194.2	279.1	420.8	598.9	694.8	788.7	1269.1	1837.6	2140.9	2441.8
15°	137.2	235.7	328.4	481.5	644.3	744.2	990.8	1611.1	2227.4	2523.3	2823.5
12.5°	171.5	276.5	370.7	534.8	689.2	790.2	1174.4	1855.0	2435.7	2824.9	3185.1
10°	206.7	316.3	406.9	580.8	732.7	832.9	1346.1	2062.3	2546.1	2892.4	3300.4
7.5°	230.4	342.3	435.0	619.8	774.0	872.1	1501.7	2233.3	2621.0	2926.2	3288.8
5°	249.1	352.1	445.8	647.5	808.0	903.0	1624.3	2368.4	2666.6	2931.4	3228.0
2.5°	264.0	358.8	454.2	669.1	835.1	922.7	1664.9	2410.0	2675.6	2931.2	3198.8
0°	274.7	362.7	460.0	684.5	857.2	938.8	1673.5	2419.2	2668.9	2924.8	3210.5
-2.5°	284.5	373.8	478.0	697.6	858.2	940.6	1665.3	2408.5	2699.0	2995.6	3336.8
-5°	290.4	382.7	492.8	704.3	854.8	939.5	1627.4	2365.5	2695.9	2996.8	3357.7
-7.5°	293.3	389.5	503.8	703.5	843.0	926.8	1526.8	2228.2	2589.9	2873.4	3251.8
-10°	294.3	397.9	511.0	688.5	820.9	905.4	1397.0	2065.1	2472.7	2738.3	3105.4
-12.5°	296.9	407.4	515.6	671.7	799.1	881.1	1250.1	1879.9	2345.8	2593.4	2938.4
-15°	296.7	414.8	517.8	654.3	778.7	853.9	1089.8	1675.5	2251.3	2565.9	2847.8
-17.5°	294.0	419.9	518.1	637.7	761.1	823.8	924.8	1494.9	2173.2	2554.6	2828.1
-20°	288.9	422.9	516.5	622.9	744.8	811.1	893.3	1320.0	1965.4	2514.4	2820.3



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	281.6	423.7	514.7	615.4	731.9	815.2	885.7	1128.3	1690.9	2447.6	2767.8
-25°	277.7	411.3	512.6	606.6	718.2	820.1	877.8	951.5	1419.8	2111.6	2644.5
-27.5°	275.5	397.0	500.9	592.2	700.8	818.9	878.5	940.9	1190.4	1728.1	2454.0
-30°	269.1	373.3	485.0	573.2	680.2	795.8	884.2	933.2	1003.2	1420.3	2012.7
-32.5°	255.6	348.5	459.0	552.5	653.3	768.8	878.3	932.9	992.7	1116.5	1594.6
-35°	241.4	329.0	429.1	526.9	620.2	732.4	839.4	930.9	982.6	1046.6	1260.4
-37.5°	230.1	307.0	398.5	495.5	587.6	688.4	796.3	897.4	974.8	1039.3	1120.8
-40°	216.0	282.7	370.6	461.6	551.6	644.8	745.7	847.5	945.1	1043.1	1117.4
-42.5°	199.0	263.8	341.4	426.9	513.3	602.8	692.8	791.1	905.0	1028.3	1123.6
-45°	178.7	241.8	310.9	390.1	471.3	557.4	644.5	733.1	853.3	980.1	1099.5
-47.5°	155.8	216.5	282.4	350.5	427.1	507.4	592.2	685.0	790.4	911.4	1041.6
-50°	131.7	188.0	249.5	312.8	381.1	455.3	533.7	627.5	726.6	832.6	950.1
-52.5°	109.0	156.7	213.7	274.1	336.0	402.4	475.9	559.8	652.8	751.4	850.1
-55°	84.4	127.3	174.9	231.4	290.8	350.6	414.8	489.3	570.1	660.1	748.5
-57.5°	65.4	96.8	137.8	185.0	240.4	298.3	355.2	415.7	486.4	563.1	637.7
-60°	49.5	71.1	101.3	141.3	185.7	237.8	292.4	347.5	404.5	461.5	525.0
-62.5°	35.1	51.7	71.7	98.2	136.2	174.9	220.6	271.3	325.0	374.0	420.8
-65°	30.7	35.6	49.2	67.9	87.5	119.5	154.1	189.6	233.9	277.8	322.5
-67.5°	26.1	30.6	35.0	42.0	58.9	75.7	92.5	122.6	153.4	181.4	211.3
-70°	23.7	25.9	29.6	33.5	37.3	44.3	58.9	73.4	87.5	104.2	127.8
-72.5°	21.6	23.5	25.5	27.7	31.1	34.4	37.8	41.0	49.3	60.8	71.6
-75°	19.5	20.9	22.6	24.4	26.3	28.4	30.6	33.5	36.1	38.7	41.3
-77.5°	17.4	18.7	20.0	21.2	22.5	24.0	25.7	27.5	29.0	30.5	32.1
-80°	15.5	16.4	17.5	18.6	19.4	20.3	21.3	22.3	23.2	24.0	25.0
-82.5°	13.9	14.5	15.2	15.9	16.5	17.0	17.4	18.0	18.9	19.6	20.3
-85°	12.4	12.6	12.9	13.3	13.9	14.5	15.0	15.4	15.8	16.2	16.6
-87.5°	10.9	11.0	11.1	11.2	11.7	12.2	12.7	13.2	13.4	13.6	13.7
-90°	2.7	2.4	2.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	12.6	12.6	12.6	12.6	12.6	13.0	13.4	13.7	14.1	14.1	14.1
87.5°	1.6	1.5	1.5	1.5	1.5	1.1	0.8	0.4	0.0	0.0	0.0
85°	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	2.1	2.0	2.0	1.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	3.3	3.1	2.7	2.3	1.7	1.6	1.6	1.6	1.6	1.6	1.6
75°	4.5	4.5	4.3	3.9	3.3	3.1	3.1	3.0	2.9	2.9	3.0
72.5°	9.6	9.5	8.9	8.2	7.1	6.5	6.4	6.1	5.7	5.5	5.3
70°	17.4	16.8	15.8	14.0	11.7	10.1	9.2	8.1	6.8	6.2	6.2
67.5°	25.0	22.4	20.3	17.9	14.7	12.1	10.6	9.2	7.9	7.3	7.0
65°	28.9	23.1	19.2	16.2	13.9	11.8	10.1	8.7	7.4	6.6	6.4
62.5°	26.5	19.2	15.2	12.7	10.7	9.2	8.1	7.0	5.9	5.3	5.5
60°	21.7	14.9	11.4	10.0	8.8	7.9	6.9	6.0	5.2	4.8	5.3
57.5°	16.6	11.8	9.3	8.7	7.8	6.8	6.1	5.8	5.7	5.8	6.1
55°	12.3	10.4	9.4	8.3	7.3	6.6	6.4	6.5	6.5	6.3	6.3
52.5°	10.5	9.6	8.5	7.6	7.4	7.5	7.7	7.4	7.2	7.2	7.4
50°	10.3	9.4	8.6	7.8	8.1	8.1	7.9	8.1	8.6	8.8	8.9
47.5°	11.1	10.5	11.0	9.3	9.6	10.8	10.9	11.1	12.5	13.1	13.4
45°	14.6	17.8	17.8	16.5	15.9	22.9	23.4	19.6	31.9	30.6	21.5
42.5°	27.1	28.7	28.8	36.1	48.8	55.6	73.7	102.5	96.0	74.6	45.1
40°	44.8	42.6	51.9	66.7	81.5	98.9	123.7	172.8	164.5	131.7	144.7
37.5°	77.3	77.3	81.8	102.3	108.0	93.0	132.1	127.6	101.7	143.0	151.4
35°	141.4	155.6	132.0	163.8	168.0	154.6	162.1	179.2	155.0	185.4	198.5
32.5°	253.9	280.2	283.7	291.4	314.8	332.7	327.7	369.5	371.6	411.1	465.1
30°	405.9	460.3	516.7	525.5	554.7	601.9	625.7	709.9	799.2	857.6	964.9
27.5°	713.5	727.0	840.4	929.7	894.1	964.9	1142.2	1245.0	1415.5	1517.1	1625.1
25°	1146.0	1183.0	1342.8	1507.3	1529.3	1593.9	1851.5	1998.4	2174.2	2276.9	2499.6
22.5°	1694.8	1854.4	2030.2	2246.7	2335.4	2487.4	2737.8	2953.4	3319.5	3772.5	4748.7
20°	2306.2	2546.0	2782.4	2972.5	3155.6	3397.3	3702.0	4742.3	5974.9	9688.9	12251.5
17.5°	2829.4	3222.1	3448.0	3632.1	3861.9	4328.4	5537.6	8603.1	14514.9	22783.7	30352.6
15°	3236.3	3602.9	3966.3	4197.0	4556.1	5588.7	8049.0	15567.3	27817.3	41775.6	58666.6
12.5°	3558.7	3863.2	4168.4	4507.9	5171.6	7183.9	13443.3	25054.1	42867.7	65430.6	95375.3
10°	3733.0	4037.6	4332.2	4815.5	6044.0	9708.1	18480.4	33792.3	61750.7	96988.9	135151.2
7.5°	3731.7	4103.1	4467.4	5056.9	6933.1	12724.4	24414.1	45134.1	78203.9	122382.6	171513.3
5°	3729.7	4179.1	4560.7	5226.1	7489.2	14782.9	28097.2	51415.2	91601.0	141456.8	194063.6
2.5°	3765.9	4260.5	4621.0	5337.5	7746.9	15887.4	30140.3	56376.4	100967.3	152313.5	208528.1
0°	3851.0	4333.0	4656.4	5348.7	7716.1	16115.2	30377.9	57576.7	104572.1	159122.7	216808.5
-2.5°	3991.9	4322.6	4636.4	5303.5	7613.2	15645.1	29822.9	56529.6	100395.1	151545.6	207374.8
-5°	3907.1	4174.1	4451.7	5051.9	7108.3	13997.3	26863.8	50584.8	88050.8	133984.2	181809.6
-7.5°	3689.4	3960.1	4217.2	4734.9	6380.5	11551.0	21974.9	40636.0	69899.4	105672.1	143235.9
-10°	3491.1	3733.7	3975.8	4389.9	5451.8	8472.2	15724.9	28758.8	51034.6	78000.9	106707.4
-12.5°	3338.3	3542.2	3728.6	4006.1	4596.6	6283.6	11440.1	21113.7	34270.7	51438.9	72447.8
-15°	3203.8	3362.3	3499.5	3766.5	4205.5	5086.8	7128.4	12654.9	20853.0	31670.8	43142.4
-17.5°	3079.5	3231.5	3393.5	3597.0	3873.3	4296.4	5469.2	7793.8	12523.4	19589.9	26355.5
-20°	3015.9	3201.9	3341.2	3500.3	3734.9	4060.0	4472.1	5625.2	7574.6	11917.5	16316.5



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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°	2965.7	3143.1	3302.0	3486.7	3727.6	3984.2	4206.6	4558.8	5478.5	6842.4	9113.3
-25°	2904.6	3079.5	3314.5	3583.3	3790.3	3984.3	4097.1	4170.5	4565.2	4955.1	5824.5
-27.5°	2788.6	3065.8	3410.9	3701.1	3923.8	4044.2	4135.1	4194.6	4431.2	4663.6	4916.6
-30°	2684.9	3109.8	3482.5	3819.9	4013.8	4160.8	4279.4	4386.6	4550.1	4747.0	4839.0
-32.5°	2317.0	3097.9	3512.4	3823.0	4022.2	4195.7	4378.4	4477.5	4621.5	4765.7	4881.9
-35°	1819.9	2613.5	3480.0	3657.9	3855.6	4081.9	4301.3	4442.3	4589.0	4737.4	4874.3
-37.5°	1363.3	1956.8	2659.5	3302.2	3567.5	3799.2	4068.5	4285.7	4477.7	4639.6	4795.5
-40°	1194.9	1355.9	1872.9	2383.4	2925.5	3423.1	3689.3	3980.1	4268.9	4468.9	4646.8
-42.5°	1193.1	1254.7	1307.5	1649.7	2066.8	2494.7	2947.5	3369.5	3839.4	4168.8	4418.7
-45°	1200.7	1248.7	1297.9	1347.5	1393.0	1707.8	2038.0	2372.8	2863.2	3350.0	3770.9
-47.5°	1143.6	1236.2	1295.1	1342.6	1387.7	1431.9	1475.1	1565.4	1878.8	2210.6	2513.9
-50°	1052.9	1148.4	1236.1	1324.1	1375.8	1419.4	1466.4	1518.0	1568.2	1619.1	1653.0
-52.5°	941.8	1035.7	1127.0	1210.5	1285.7	1359.6	1433.5	1493.5	1547.0	1599.3	1625.3
-55°	835.4	920.0	1003.2	1076.7	1150.0	1222.8	1296.3	1369.4	1442.0	1513.3	1549.8
-57.5°	717.4	799.6	877.8	939.7	1002.0	1064.1	1130.8	1199.5	1265.7	1326.4	1358.4
-60°	592.2	662.6	729.6	789.7	848.0	904.1	960.7	1018.0	1074.1	1123.4	1152.4
-62.5°	467.7	522.0	577.9	630.2	679.9	727.8	779.5	828.8	875.3	914.6	942.0
-65°	366.1	406.8	442.5	478.7	515.6	557.7	600.2	640.5	678.2	709.3	732.7
-67.5°	248.7	285.9	318.7	349.5	377.8	406.5	437.0	466.3	494.1	517.0	535.1
-70°	150.4	171.3	190.0	210.8	235.5	259.6	283.8	306.0	326.3	343.0	356.2
-72.5°	81.7	90.6	100.1	115.1	128.8	142.5	156.1	168.5	179.7	189.7	198.4
-75°	43.9	47.7	54.6	60.9	66.4	71.9	77.3	82.2	86.7	90.3	93.4
-77.5°	33.9	35.8	37.5	38.9	40.2	41.5	42.6	43.8	44.9	45.9	46.9
-80°	26.1	27.3	28.6	29.8	30.9	31.7	32.4	33.0	33.4	34.1	34.7
-82.5°	20.9	21.5	22.1	22.7	23.3	23.9	24.6	25.2	25.9	26.1	26.3
-85°	17.1	17.3	17.5	17.7	17.9	18.1	18.3	18.5	18.6	18.7	18.7
-87.5°	13.8	13.9	13.9	13.9	14.0	14.4	14.8	15.2	15.6	15.7	15.7
-90°	1.6	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731478 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	13.7
87.5°	0.0	0.0	0.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.4
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	3.0	3.1	3.1	3.1	3.1	3.1	3.0	3.0	2.9	2.9	3.0
72.5°	5.0	4.7	4.7	4.7	4.7	4.7	5.0	5.3	5.5	5.7	6.1
70°	6.2	6.3	6.3	6.3	6.3	6.3	6.2	6.2	6.2	6.8	8.1
67.5°	6.7	6.4	5.6	4.7	5.6	6.4	6.7	7.0	7.3	7.9	9.2
65°	6.3	6.3	5.6	4.7	5.6	6.3	6.3	6.4	6.6	7.4	8.7
62.5°	5.8	6.2	5.6	4.7	5.6	6.2	5.8	5.5	5.3	5.9	7.0
60°	5.7	6.2	6.3	6.3	6.3	6.2	5.7	5.3	4.8	5.2	6.0
57.5°	6.2	6.3	6.3	6.3	6.3	6.3	6.2	6.1	5.8	5.7	5.8
55°	6.3	6.3	6.9	7.8	6.9	6.3	6.3	6.3	6.3	6.5	6.5
52.5°	7.6	7.7	7.8	7.8	7.8	7.7	7.6	7.4	7.2	7.2	7.4
50°	9.1	9.3	9.4	9.4	9.4	9.3	9.1	8.9	8.8	8.6	8.1
47.5°	13.3	12.8	12.5	12.6	12.5	12.8	13.3	13.4	13.1	12.5	11.1
45°	21.9	21.8	21.8	22.0	21.8	21.8	21.9	21.5	30.6	31.9	19.6
42.5°	43.9	39.6	36.2	37.7	36.2	39.6	43.9	45.1	74.6	96.0	102.5
40°	129.2	88.7	51.4	51.8	51.4	88.7	129.2	144.7	131.7	164.5	172.8
37.5°	120.7	97.4	87.9	86.3	87.9	97.4	120.7	151.4	143.0	101.7	127.6
35°	199.2	198.0	189.3	188.4	189.3	198.0	199.2	198.5	185.4	155.0	179.2
32.5°	486.0	505.9	499.5	491.4	499.5	505.9	486.0	465.1	411.1	371.6	369.5
30°	1015.9	1060.1	1051.2	1075.4	1051.2	1060.1	1015.9	964.9	857.6	799.2	709.9
27.5°	1684.9	1713.8	1683.9	1675.1	1683.9	1713.8	1684.9	1625.1	1517.1	1415.5	1245.0
25°	2651.8	2707.9	2733.8	2786.6	2733.8	2707.9	2651.8	2499.6	2276.9	2174.2	1998.4
22.5°	5962.3	6309.7	6131.3	5972.0	6131.3	6309.7	5962.3	4748.7	3772.5	3319.5	2953.4
20°	17497.6	20588.0	20360.3	19953.6	20360.3	20588.0	17497.6	12251.5	9688.9	5974.9	4742.3
17.5°	42191.9	51686.1	57598.8	60710.2	57598.8	51686.1	42191.9	30352.6	22783.7	14514.9	8603.1
15°	78712.4	94681.8	104058.1	109376.0	104058.1	94681.8	78712.4	58666.6	41775.6	27817.3	15567.3
12.5°	124163.5	149193.2	165798.1	168972.4	165798.1	149193.2	124163.5	95375.3	65430.6	42867.7	25054.1
10°	174211.3	206268.7	232707.0	242349.5	232707.0	206268.7	174211.3	135151.2	96988.9	61750.7	33792.3
7.5°	216953.7	257862.6	292969.1	305455.4	292969.1	257862.6	216953.7	171513.3	122382.6	78203.9	45134.1
5°	248034.2	302301.5	334078.7	342653.0	334078.7	302301.5	248034.2	194063.6	141456.8	91601.0	51415.2
2.5°	273333.9	324846.9	358916.5	376482.4	358916.5	324846.9	273333.9	208528.1	152313.5	100967.3	56376.4
0°	284457.7	333961.9	370705.8	396477.6	370705.8	333961.9	284457.7	216808.5	159122.7	104572.1	57576.7
-2.5°	270787.5	321412.4	347550.2	358845.9	347550.2	321412.4	270787.5	207374.8	151545.6	100395.1	56529.6
-5°	230226.0	277949.1	304219.4	312565.5	304219.4	277949.1	230226.0	181809.6	133984.2	88050.8	50584.8
-7.5°	179585.8	212648.4	235313.7	243212.9	235313.7	212648.4	179585.8	143235.9	105672.1	69899.4	40636.0
-10°	135224.2	158935.8	171081.8	175186.9	171081.8	158935.8	135224.2	106707.4	78000.9	51034.6	28758.8
-12.5°	92852.3	110702.4	118553.7	123711.7	118553.7	110702.4	92852.3	72447.8	51438.9	34270.7	21113.7
-15°	57116.0	68752.9	74935.2	78464.4	74935.2	68752.9	57116.0	43142.4	31670.8	20853.0	12654.9
-17.5°	34700.9	41026.5	45123.5	46979.7	45123.5	41026.5	34700.9	26355.5	19589.9	12523.4	7793.8
-20°	21543.2	25754.9	28147.1	29519.1	28147.1	25754.9	21543.2	16316.5	11917.5	7574.6	5625.2



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	12102.3	14413.3	15709.1	16160.7	15709.1	14413.3	12102.3	9113.3	6842.4	5478.5	4558.8
-25°	6730.0	7318.2	7575.5	7636.1	7575.5	7318.2	6730.0	5824.5	4955.1	4565.2	4170.5
-27.5°	5135.9	5261.3	5340.8	5364.4	5340.8	5261.3	5135.9	4916.6	4663.6	4431.2	4194.6
-30°	4926.5	4939.6	4961.4	4957.8	4961.4	4939.6	4926.5	4839.0	4747.0	4550.1	4386.6
-32.5°	4963.8	4968.7	4973.1	4965.6	4973.1	4968.7	4963.8	4881.9	4765.7	4621.5	4477.5
-35°	4949.0	4963.2	4974.4	4979.8	4974.4	4963.2	4949.0	4874.3	4737.4	4589.0	4442.3
-37.5°	4857.5	4877.1	4886.7	4877.7	4886.7	4877.1	4857.5	4795.5	4639.6	4477.7	4285.7
-40°	4689.6	4703.7	4704.6	4697.2	4704.6	4703.7	4689.6	4646.8	4468.9	4268.9	3980.1
-42.5°	4494.8	4544.4	4567.8	4568.5	4567.8	4544.4	4494.8	4418.7	4168.8	3839.4	3369.5
-45°	4037.7	4244.6	4367.4	4397.3	4367.4	4244.6	4037.7	3770.9	3350.0	2863.2	2372.8
-47.5°	2756.2	2961.8	3095.6	3146.1	3095.6	2961.8	2756.2	2513.9	2210.6	1878.8	1565.4
-50°	1677.7	1702.6	1713.6	1711.2	1713.6	1702.6	1677.7	1653.0	1619.1	1568.2	1518.0
-52.5°	1645.2	1664.9	1677.0	1682.9	1677.0	1664.9	1645.2	1625.3	1599.3	1547.0	1493.5
-55°	1579.8	1604.5	1617.2	1620.2	1617.2	1604.5	1579.8	1549.8	1513.3	1442.0	1369.4
-57.5°	1385.2	1406.7	1419.0	1423.9	1419.0	1406.7	1385.2	1358.4	1326.4	1265.7	1199.5
-60°	1175.8	1193.8	1201.7	1202.6	1201.7	1193.8	1175.8	1152.4	1123.4	1074.1	1018.0
-62.5°	964.7	982.7	988.6	987.5	988.6	982.7	964.7	942.0	914.6	875.3	828.8
-65°	752.2	767.7	770.8	767.7	770.8	767.7	752.2	732.7	709.3	678.2	640.5
-67.5°	550.3	562.5	566.0	565.2	566.0	562.5	550.3	535.1	517.0	494.1	466.3
-70°	366.7	374.5	374.2	370.5	374.2	374.5	366.7	356.2	343.0	326.3	306.0
-72.5°	205.8	211.7	216.5	219.8	216.5	211.7	205.8	198.4	189.7	179.7	168.5
-75°	95.8	97.7	100.1	102.0	100.1	97.7	95.8	93.4	90.3	86.7	82.2
-77.5°	47.7	48.4	49.4	50.2	49.4	48.4	47.7	46.9	45.9	44.9	43.8
-80°	35.4	35.9	36.1	36.1	36.1	35.9	35.4	34.7	34.1	33.4	33.0
-82.5°	26.5	26.6	26.7	26.7	26.7	26.6	26.5	26.3	26.1	25.9	25.2
-85°	18.7	18.8	19.6	20.4	19.6	18.8	18.7	18.7	18.7	18.6	18.5
-87.5°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.6	15.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	13.4	13.0	12.6	12.6	12.6	12.6	12.6	12.2	11.8	11.4	11.0
87.5°	0.8	1.1	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6
85°	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.8	1.8	1.8
80°	1.6	1.6	1.6	1.8	2.0	2.0	2.1	2.3	2.5	2.7	2.8
77.5°	1.6	1.6	1.7	2.3	2.7	3.1	3.3	3.5	3.7	3.9	3.9
75°	3.1	3.1	3.3	3.9	4.3	4.5	4.5	4.4	4.4	4.6	4.7
72.5°	6.4	6.5	7.1	8.2	8.9	9.5	9.6	8.9	7.7	6.0	4.7
70°	9.2	10.1	11.7	14.0	15.8	16.8	17.4	17.0	15.4	13.7	10.4
67.5°	10.6	12.1	14.7	17.9	20.3	22.4	25.0	27.4	27.7	25.9	18.7
65°	10.1	11.8	13.9	16.2	19.2	23.1	28.9	32.4	34.7	35.7	29.3
62.5°	8.1	9.2	10.7	12.7	15.2	19.2	26.5	32.8	38.0	39.1	33.0
60°	6.9	7.9	8.8	10.0	11.4	14.9	21.7	29.6	38.7	37.8	33.8
57.5°	6.1	6.8	7.8	8.7	9.3	11.8	16.6	23.1	31.5	32.4	31.0
55°	6.4	6.6	7.3	8.3	9.4	10.4	12.3	16.4	22.3	24.2	24.6
52.5°	7.7	7.5	7.4	7.6	8.5	9.6	10.5	12.8	14.7	17.3	18.8
50°	7.9	8.1	8.1	7.8	8.6	9.4	10.3	11.0	12.1	13.4	14.4
47.5°	10.9	10.8	9.6	9.3	11.0	10.5	11.1	11.7	12.4	12.1	12.8
45°	23.4	22.9	15.9	16.5	17.8	17.8	14.6	15.7	15.1	14.1	12.6
42.5°	73.7	55.6	48.8	36.1	28.8	28.7	27.1	24.9	22.6	18.8	17.9
40°	123.7	98.9	81.5	66.7	51.9	42.6	44.8	38.1	34.1	29.1	28.9
37.5°	132.1	93.0	108.0	102.3	81.8	77.3	77.3	64.3	47.4	57.4	56.6
35°	162.1	154.6	168.0	163.8	132.0	155.6	141.4	110.6	93.2	103.6	97.3
32.5°	327.7	332.7	314.8	291.4	283.7	280.2	253.9	195.5	185.9	178.6	157.1
30°	625.7	601.9	554.7	525.5	516.7	460.3	405.9	410.0	354.2	274.3	234.5
27.5°	1142.2	964.9	894.1	929.7	840.4	727.0	713.5	724.0	584.1	442.6	338.1
25°	1851.5	1593.9	1529.3	1507.3	1342.8	1183.0	1146.0	1098.8	938.1	664.7	467.2
22.5°	2737.8	2487.4	2335.4	2246.7	2030.2	1854.4	1694.8	1521.1	1358.1	995.1	693.0
20°	3702.0	3397.3	3155.6	2972.5	2782.4	2546.0	2306.2	2006.9	1751.4	1406.5	966.8
17.5°	5537.6	4328.4	3861.9	3632.1	3448.0	3222.1	2829.4	2441.8	2140.9	1837.6	1269.1
15°	8049.0	5588.7	4556.1	4197.0	3966.3	3602.9	3236.3	2823.5	2523.3	2227.4	1611.1
12.5°	13443.3	7183.9	5171.6	4507.9	4168.4	3863.2	3558.7	3185.1	2824.9	2435.7	1855.0
10°	18480.4	9708.1	6044.0	4815.5	4332.2	4037.6	3733.0	3300.4	2892.4	2546.1	2062.3
7.5°	24414.1	12724.4	6933.1	5056.9	4467.4	4103.1	3731.7	3288.8	2926.2	2621.0	2233.3
5°	28097.2	14782.9	7489.2	5226.1	4560.7	4179.1	3729.7	3228.0	2931.4	2666.6	2368.4
2.5°	30140.3	15887.4	7746.9	5337.5	4621.0	4260.5	3765.9	3198.8	2931.2	2675.6	2410.0
0°	30377.9	16115.2	7716.1	5348.7	4656.4	4333.0	3851.0	3210.5	2924.8	2668.9	2419.2
-2.5°	29822.9	15645.1	7613.2	5303.5	4636.4	4322.6	3991.9	3336.8	2995.6	2699.0	2408.5
-5°	26863.8	13997.3	7108.3	5051.9	4451.7	4174.1	3907.1	3357.7	2996.8	2695.9	2365.5
-7.5°	21974.9	11551.0	6380.5	4734.9	4217.2	3960.1	3689.4	3251.8	2873.4	2589.9	2228.2
-10°	15724.9	8472.2	5451.8	4389.9	3975.8	3733.7	3491.1	3105.4	2738.3	2472.7	2065.1
-12.5°	11440.1	6283.6	4596.6	4006.1	3728.6	3542.2	3338.3	2938.4	2593.4	2345.8	1879.9
-15°	7128.4	5086.8	4205.5	3766.5	3499.5	3362.3	3203.8	2847.8	2565.9	2251.3	1675.5
-17.5°	5469.2	4296.4	3873.3	3597.0	3393.5	3231.5	3079.5	2828.1	2554.6	2173.2	1494.9
-20°	4472.1	4060.0	3734.9	3500.3	3341.2	3201.9	3015.9	2820.3	2514.4	1965.4	1320.0





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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°	4206.6	3984.2	3727.6	3486.7	3302.0	3143.1	2965.7	2767.8	2447.6	1690.9	1128.3
-25°	4097.1	3984.3	3790.3	3583.3	3314.5	3079.5	2904.6	2644.5	2111.6	1419.8	951.5
-27.5°	4135.1	4044.2	3923.8	3701.1	3410.9	3065.8	2788.6	2454.0	1728.1	1190.4	940.9
-30°	4279.4	4160.8	4013.8	3819.9	3482.5	3109.8	2684.9	2012.7	1420.3	1003.2	933.2
-32.5°	4378.4	4195.7	4022.2	3823.0	3512.4	3097.9	2317.0	1594.6	1116.5	992.7	932.9
-35°	4301.3	4081.9	3855.6	3657.9	3480.0	2613.5	1819.9	1260.4	1046.6	982.6	930.9
-37.5°	4068.5	3799.2	3567.5	3302.2	2659.5	1956.8	1363.3	1120.8	1039.3	974.8	897.4
-40°	3689.3	3423.1	2925.5	2383.4	1872.9	1355.9	1194.9	1117.4	1043.1	945.1	847.5
-42.5°	2947.5	2494.7	2066.8	1649.7	1307.5	1254.7	1193.1	1123.6	1028.3	905.0	791.1
-45°	2038.0	1707.8	1393.0	1347.5	1297.9	1248.7	1200.7	1099.5	980.1	853.3	733.1
-47.5°	1475.1	1431.9	1387.7	1342.6	1295.1	1236.2	1143.6	1041.6	911.4	790.4	685.0
-50°	1466.4	1419.4	1375.8	1324.1	1236.1	1148.4	1052.9	950.1	832.6	726.6	627.5
-52.5°	1433.5	1359.6	1285.7	1210.5	1127.0	1035.7	941.8	850.1	751.4	652.8	559.8
-55°	1296.3	1222.8	1150.0	1076.7	1003.2	920.0	835.4	748.5	660.1	570.1	489.3
-57.5°	1130.8	1064.1	1002.0	939.7	877.8	799.6	717.4	637.7	563.1	486.4	415.7
-60°	960.7	904.1	848.0	789.7	729.6	662.6	592.2	525.0	461.5	404.5	347.5
-62.5°	779.5	727.8	679.9	630.2	577.9	522.0	467.7	420.8	374.0	325.0	271.3
-65°	600.2	557.7	515.6	478.7	442.5	406.8	366.1	322.5	277.8	233.9	189.6
-67.5°	437.0	406.5	377.8	349.5	318.7	285.9	248.7	211.3	181.4	153.4	122.6
-70°	283.8	259.6	235.5	210.8	190.0	171.3	150.4	127.8	104.2	87.5	73.4
-72.5°	156.1	142.5	128.8	115.1	100.1	90.6	81.7	71.6	60.8	49.3	41.0
-75°	77.3	71.9	66.4	60.9	54.6	47.7	43.9	41.3	38.7	36.1	33.5
-77.5°	42.6	41.5	40.2	38.9	37.5	35.8	33.9	32.1	30.5	29.0	27.5
-80°	32.4	31.7	30.9	29.8	28.6	27.3	26.1	25.0	24.0	23.2	22.3
-82.5°	24.6	23.9	23.3	22.7	22.1	21.5	20.9	20.3	19.6	18.9	18.0
-85°	18.3	18.1	17.9	17.7	17.5	17.3	17.1	16.6	16.2	15.8	15.4
-87.5°	14.8	14.4	14.0	13.9	13.9	13.9	13.8	13.7	13.6	13.4	13.2
-90°	0.0	0.0	0.0	0.4	0.8	1.2	1.6	1.6	1.6	1.6	1.6





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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°	10.6	10.2	9.8	9.4	9.4	9.4	9.4	9.4	9.0	8.6	8.2
87.5°	1.9	2.1	2.3	2.5	2.6	2.7	2.9	3.1	3.3	3.4	3.5
85°	2.0	2.4	2.7	3.1	3.1	3.1	3.1	3.1	3.4	3.7	3.8
82.5°	2.0	2.4	2.8	3.1	3.4	3.5	3.6	3.5	3.7	3.9	4.2
80°	2.8	2.8	2.9	3.2	3.6	4.0	4.2	4.2	4.2	4.2	4.4
77.5°	3.7	3.4	3.1	3.2	3.6	4.0	4.4	4.7	4.6	4.5	4.5
75°	4.7	4.4	4.1	3.9	3.9	4.0	4.4	4.7	4.7	4.7	4.6
72.5°	4.7	4.7	4.7	4.7	4.4	4.4	4.5	4.7	4.7	4.7	4.7
70°	7.3	5.2	4.7	4.7	4.7	4.7	4.6	4.8	4.7	4.7	4.7
67.5°	11.9	8.4	6.0	4.9	4.7	4.7	4.7	4.9	4.9	4.7	4.7
65°	20.9	13.5	7.7	6.4	5.3	4.7	4.7	5.0	5.2	5.0	4.7
62.5°	26.9	20.3	13.3	8.7	6.4	5.4	4.7	5.1	5.5	5.4	5.0
60°	29.8	23.5	18.5	13.4	8.8	6.2	5.4	5.2	5.5	5.8	5.4
57.5°	27.6	25.2	21.5	17.2	12.4	8.0	6.1	5.7	5.6	6.0	5.9
55°	23.5	22.0	23.0	19.9	15.3	10.6	7.4	6.3	5.8	6.0	6.3
52.5°	18.6	19.9	21.9	21.5	17.7	13.1	9.6	6.9	6.4	6.1	6.4
50°	14.9	17.8	21.0	21.9	19.7	15.5	11.6	8.5	6.9	6.3	6.5
47.5°	13.7	16.6	19.4	22.4	21.2	17.9	13.6	10.0	7.5	6.8	6.6
45°	15.1	16.3	18.5	21.2	23.1	19.7	15.7	11.3	8.6	7.3	6.7
42.5°	18.5	18.7	18.8	20.3	22.7	21.3	17.7	13.0	9.6	7.9	7.0
40°	26.6	23.7	20.6	22.2	22.7	22.8	19.2	14.8	10.4	8.6	7.5
37.5°	37.0	32.1	26.4	27.9	24.7	23.4	20.5	16.4	11.7	9.5	8.1
35°	71.5	43.8	45.0	41.4	32.5	24.6	21.7	17.8	13.6	10.4	8.6
32.5°	115.9	84.2	82.9	64.0	43.1	26.4	23.1	19.7	15.5	11.3	9.2
30°	190.3	175.1	137.9	92.4	59.4	36.2	25.5	21.8	17.5	12.1	9.9
27.5°	307.4	283.3	213.0	143.2	86.7	49.1	30.0	24.0	19.4	13.2	10.5
25°	425.9	395.2	317.2	210.4	117.8	76.1	35.6	26.4	21.3	14.8	11.2
22.5°	544.3	504.2	432.7	287.9	164.9	111.0	49.8	30.6	23.2	16.3	11.8
20°	657.3	612.4	548.7	352.6	222.2	152.6	75.3	35.5	25.1	17.8	12.4
17.5°	788.7	694.8	598.9	420.8	279.1	194.2	104.7	40.7	27.0	19.3	12.9
15°	990.8	744.2	644.3	481.5	328.4	235.7	137.2	46.3	28.9	20.6	13.4
12.5°	1174.4	790.2	689.2	534.8	370.7	276.5	171.5	52.0	30.7	21.8	13.9
10°	1346.1	832.9	732.7	580.8	406.9	316.3	206.7	57.8	33.1	22.8	14.4
7.5°	1501.7	872.1	774.0	619.8	435.0	342.3	230.4	63.7	35.6	23.6	14.8
5°	1624.3	903.0	808.0	647.5	445.8	352.1	249.1	69.1	38.0	24.2	15.1
2.5°	1664.9	922.7	835.1	669.1	454.2	358.8	264.0	74.1	40.3	24.7	15.4
0°	1673.5	938.8	857.2	684.5	460.0	362.7	274.7	78.5	42.4	25.1	15.7
-2.5°	1665.3	940.6	858.2	697.6	478.0	373.8	284.5	97.9	55.8	32.7	19.4
-5°	1627.4	939.5	854.8	704.3	492.8	382.7	290.4	116.1	68.7	40.0	22.9
-7.5°	1526.8	926.8	843.0	703.5	503.8	389.5	293.3	133.1	80.6	46.8	26.2
-10°	1397.0	905.4	820.9	688.5	511.0	397.9	294.3	148.3	91.3	52.8	29.1
-12.5°	1250.1	881.1	799.1	671.7	515.6	407.4	296.9	161.3	100.6	58.1	31.6
-15°	1089.8	853.9	778.7	654.3	517.8	414.8	296.7	171.9	108.5	63.2	33.6
-17.5°	924.8	823.8	761.1	637.7	518.1	419.9	294.0	179.9	115.1	68.3	36.0
-20°	893.3	811.1	744.8	622.9	516.5	422.9	288.9	185.0	120.3	72.1	38.3



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	885.7	815.2	731.9	615.4	514.7	423.7	281.6	187.2	123.9	74.5	39.6
-25°	877.8	820.1	718.2	606.6	512.6	411.3	277.7	186.2	126.0	75.5	40.0
-27.5°	878.5	818.9	700.8	592.2	500.9	397.0	275.5	187.6	126.7	74.8	39.3
-30°	884.2	795.8	680.2	573.2	485.0	373.3	269.1	187.2	125.8	73.7	37.5
-32.5°	878.3	768.8	653.3	552.5	459.0	348.5	255.6	184.7	122.7	71.5	36.3
-35°	839.4	732.4	620.2	526.9	429.1	329.0	241.4	180.1	117.3	67.7	35.0
-37.5°	796.3	688.4	587.6	495.5	398.5	307.0	230.1	169.0	109.5	62.2	32.8
-40°	745.7	644.8	551.6	461.6	370.6	282.7	216.0	155.2	101.2	55.0	29.8
-42.5°	692.8	602.8	513.3	426.9	341.4	263.8	199.0	139.2	89.7	49.3	26.0
-45°	644.5	557.4	471.3	390.1	310.9	241.8	178.7	121.6	76.4	44.0	23.0
-47.5°	592.2	507.4	427.1	350.5	282.4	216.5	155.8	104.9	61.9	37.5	22.1
-50°	533.7	455.3	381.1	312.8	249.5	188.0	131.7	86.6	53.0	29.8	21.0
-52.5°	475.9	402.4	336.0	274.1	213.7	156.7	109.0	67.6	43.3	26.1	19.7
-55°	414.8	350.6	290.8	231.4	174.9	127.3	84.4	55.4	32.8	24.2	18.3
-57.5°	355.2	298.3	240.4	185.0	137.8	96.8	65.4	42.4	28.4	22.1	17.8
-60°	292.4	237.8	185.7	141.3	101.3	71.1	49.5	32.1	25.6	20.2	17.3
-62.5°	220.6	174.9	136.2	98.2	71.7	51.7	35.1	28.6	22.7	19.3	16.6
-65°	154.1	119.5	87.5	67.9	49.2	35.6	30.7	25.0	21.2	18.4	15.9
-67.5°	92.5	75.7	58.9	42.0	35.0	30.6	26.1	22.8	20.0	17.4	15.1
-70°	58.9	44.3	37.3	33.5	29.6	25.9	23.7	21.2	18.7	16.4	14.3
-72.5°	37.8	34.4	31.1	27.7	25.5	23.5	21.6	19.6	17.3	15.2	13.4
-75°	30.6	28.4	26.3	24.4	22.6	20.9	19.5	17.8	15.9	14.1	12.5
-77.5°	25.7	24.0	22.5	21.2	20.0	18.7	17.4	16.0	14.5	13.1	11.6
-80°	21.3	20.3	19.4	18.6	17.5	16.4	15.5	14.6	13.3	12.1	10.7
-82.5°	17.4	17.0	16.5	15.9	15.2	14.5	13.9	13.4	12.2	11.0	10.0
-85°	15.0	14.5	13.9	13.3	12.9	12.6	12.4	12.1	11.1	10.2	9.4
-87.5°	12.7	12.2	11.7	11.2	11.1	11.0	10.9	10.7	10.1	9.4	8.8
-90°	1.6	1.6	1.6	1.6	2.0	2.4	2.7	3.1	3.1	3.1	3.1



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	7.8	7.4	7.1	6.7	6.3	5.5	4.7
87.5°	3.5	3.8	4.0	4.4	4.7	4.7	4.7
85°	3.9	4.0	4.2	4.4	4.7	4.8	4.7
82.5°	4.3	4.3	4.3	4.5	4.7	4.8	4.7
80°	4.7	4.5	4.5	4.5	4.7	4.8	4.7
77.5°	4.7	4.7	4.6	4.6	4.7	4.9	4.7
75°	4.7	4.8	4.7	4.6	4.7	4.9	4.7
72.5°	4.8	4.9	4.9	4.7	4.7	5.0	4.7
70°	4.8	5.1	5.0	4.7	4.8	5.0	4.7
67.5°	4.9	5.2	5.2	4.9	4.8	5.0	4.7
65°	4.9	5.3	5.3	5.0	4.8	5.1	4.7
62.5°	5.0	5.3	5.5	5.2	4.9	5.1	4.7
60°	5.0	5.4	5.7	5.4	4.9	5.2	4.7
57.5°	5.4	5.4	5.7	5.5	5.0	5.2	4.7
55°	5.8	5.5	5.8	5.7	5.2	5.2	4.7
52.5°	6.2	5.5	5.8	5.9	5.3	5.3	4.7
50°	6.5	5.9	5.9	6.1	5.4	5.3	4.7
47.5°	6.9	6.2	5.9	6.2	5.5	5.4	4.7
45°	6.9	6.5	6.0	6.2	5.6	5.4	4.7
42.5°	7.0	6.8	6.0	6.3	5.7	5.5	4.7
40°	7.1	7.1	6.2	6.3	5.8	5.5	4.7
37.5°	7.2	7.3	6.4	6.3	5.9	5.6	4.7
35°	7.2	7.5	6.6	6.4	6.0	5.6	4.7
32.5°	7.4	7.5	6.8	6.5	6.0	5.7	4.7
30°	7.9	7.6	7.0	6.5	6.1	5.7	4.7
27.5°	8.4	7.7	7.2	6.6	6.1	5.8	4.7
25°	8.8	7.7	7.3	6.7	6.2	5.8	4.7
22.5°	9.3	7.8	7.4	6.8	6.2	5.9	4.7
20°	9.8	7.9	7.5	6.9	6.2	5.9	4.7
17.5°	10.2	8.1	7.6	7.0	6.3	6.0	4.7
15°	10.7	8.3	7.7	7.1	6.3	6.0	4.7
12.5°	11.1	8.4	7.7	7.2	6.3	6.1	4.7
10°	11.4	8.6	7.8	7.4	6.3	6.1	4.7
7.5°	11.8	8.8	7.8	7.5	6.3	6.2	4.7
5°	12.1	9.0	7.8	7.6	6.3	6.2	4.7
2.5°	12.4	9.2	7.8	7.7	6.3	6.3	4.7
0°	12.6	9.4	7.8	7.8	6.3	6.3	4.7
-2.5°	13.8	9.9	8.1	7.9	6.4	6.3	4.7
-5°	15.0	10.4	8.4	8.0	6.4	6.4	4.7
-7.5°	16.1	10.9	8.6	8.1	6.5	6.4	4.7
-10°	17.1	11.3	8.9	8.1	6.6	6.4	4.7
-12.5°	17.9	11.7	9.1	8.2	6.6	6.4	4.7
-15°	18.6	12.0	9.4	8.3	6.7	6.4	4.7
-17.5°	19.1	12.3	9.6	8.3	6.8	6.5	4.7
-20°	19.7	12.6	9.7	8.3	6.8	6.5	4.7



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-2S-CV1

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	20.5	12.8	9.9	8.4	6.9	6.5	4.7
-25°	20.8	13.0	10.0	8.4	6.9	6.5	4.7
-27.5°	20.6	13.2	10.1	8.4	7.0	6.5	4.7
-30°	20.0	13.2	10.2	8.4	7.1	6.5	4.7
-32.5°	18.8	13.2	10.3	8.3	7.1	6.5	4.7
-35°	18.3	13.1	10.4	8.3	7.2	6.4	4.7
-37.5°	18.1	13.0	10.4	8.3	7.2	6.4	4.7
-40°	17.8	13.0	10.4	8.2	7.3	6.4	4.7
-42.5°	17.4	13.0	10.4	8.2	7.3	6.4	4.7
-45°	16.7	13.0	10.4	8.1	7.4	6.4	4.7
-47.5°	16.0	12.9	10.3	8.1	7.4	6.3	4.7
-50°	15.7	12.8	10.2	8.1	7.5	6.3	4.7
-52.5°	15.5	12.6	10.1	8.2	7.5	6.3	4.7
-55°	15.2	12.4	9.9	8.3	7.5	6.2	4.7
-57.5°	14.8	12.1	9.8	8.3	7.6	6.2	4.7
-60°	14.4	11.8	9.6	8.3	7.6	6.2	4.7
-62.5°	13.9	11.5	9.5	8.3	7.5	6.1	4.7
-65°	13.4	11.1	9.3	8.2	7.4	6.1	4.7
-67.5°	12.9	10.7	9.2	8.2	7.3	6.0	4.7
-70°	12.3	10.4	9.0	8.1	7.2	6.0	4.7
-72.5°	11.6	10.0	8.8	8.0	7.1	5.9	4.7
-75°	11.0	9.6	8.6	7.8	7.0	5.9	4.7
-77.5°	10.2	9.1	8.3	7.6	6.9	5.8	4.7
-80°	9.5	8.8	8.1	7.4	6.8	5.8	4.7
-82.5°	9.0	8.4	7.8	7.3	6.7	5.7	4.7
-85°	8.6	8.1	7.6	7.1	6.6	5.6	4.7
-87.5°	8.2	7.8	7.3	6.9	6.4	5.6	4.7
-90°	3.1	3.5	3.9	4.3	4.7	4.7	4.7

(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

