

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: P731596 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-1S-CV5**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731596 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-40-70-1S-CV5  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 1S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

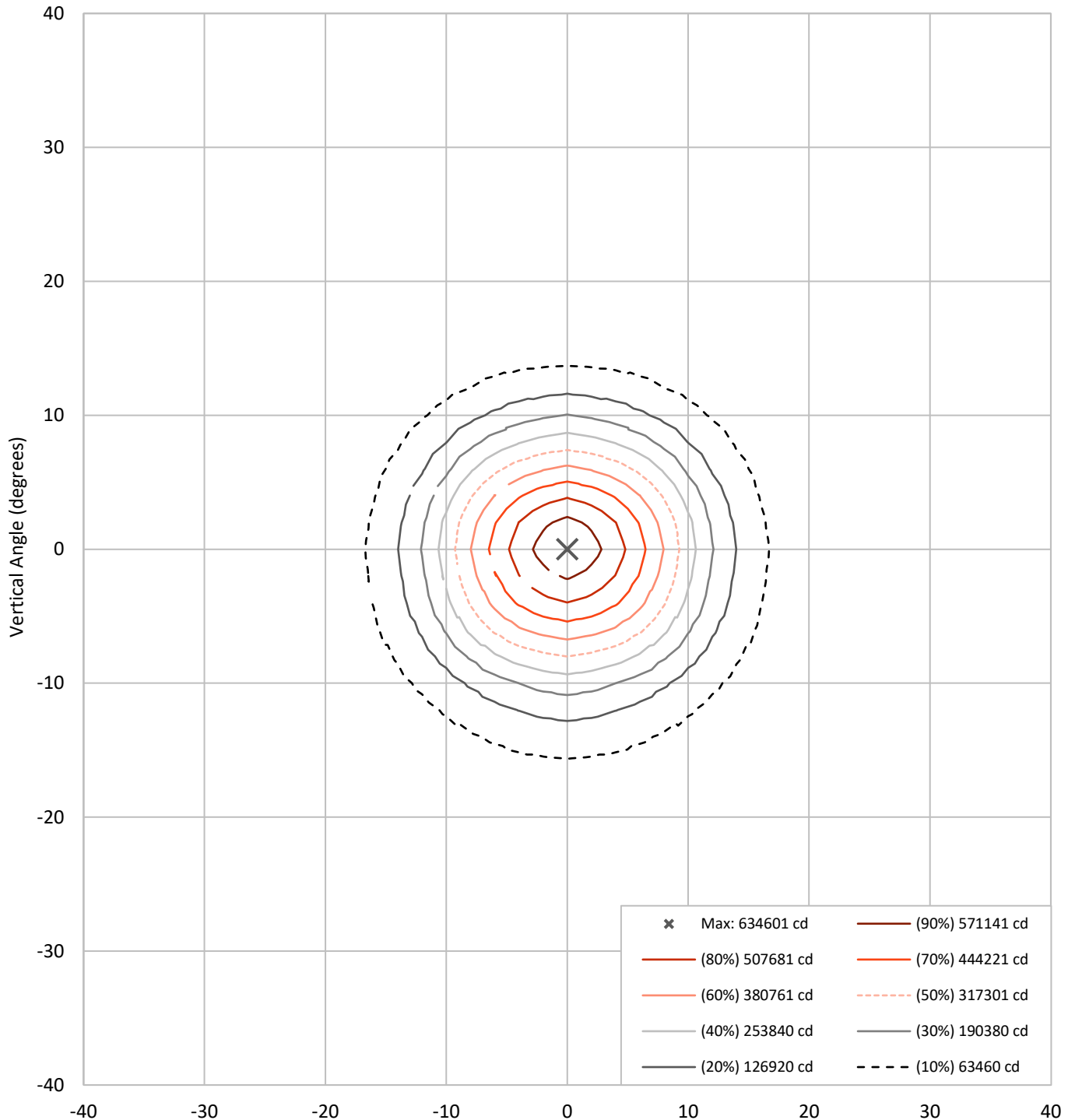
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	65243 lumens	Max Intensity:	634601 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	90.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.6°H x 15.4°V	Field Angle (10%):	33.2°H x 29.1°V
Beam Lumens:	30089.3 lumens	Field Lumens:	55511.6 lumens
Beam Efficiency:	46.1%	Field Efficiency:	85.1%

Input Watts (W): 724.3  
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-08-0680N-40-70-1S-CV5

### Iso-Candela Plot





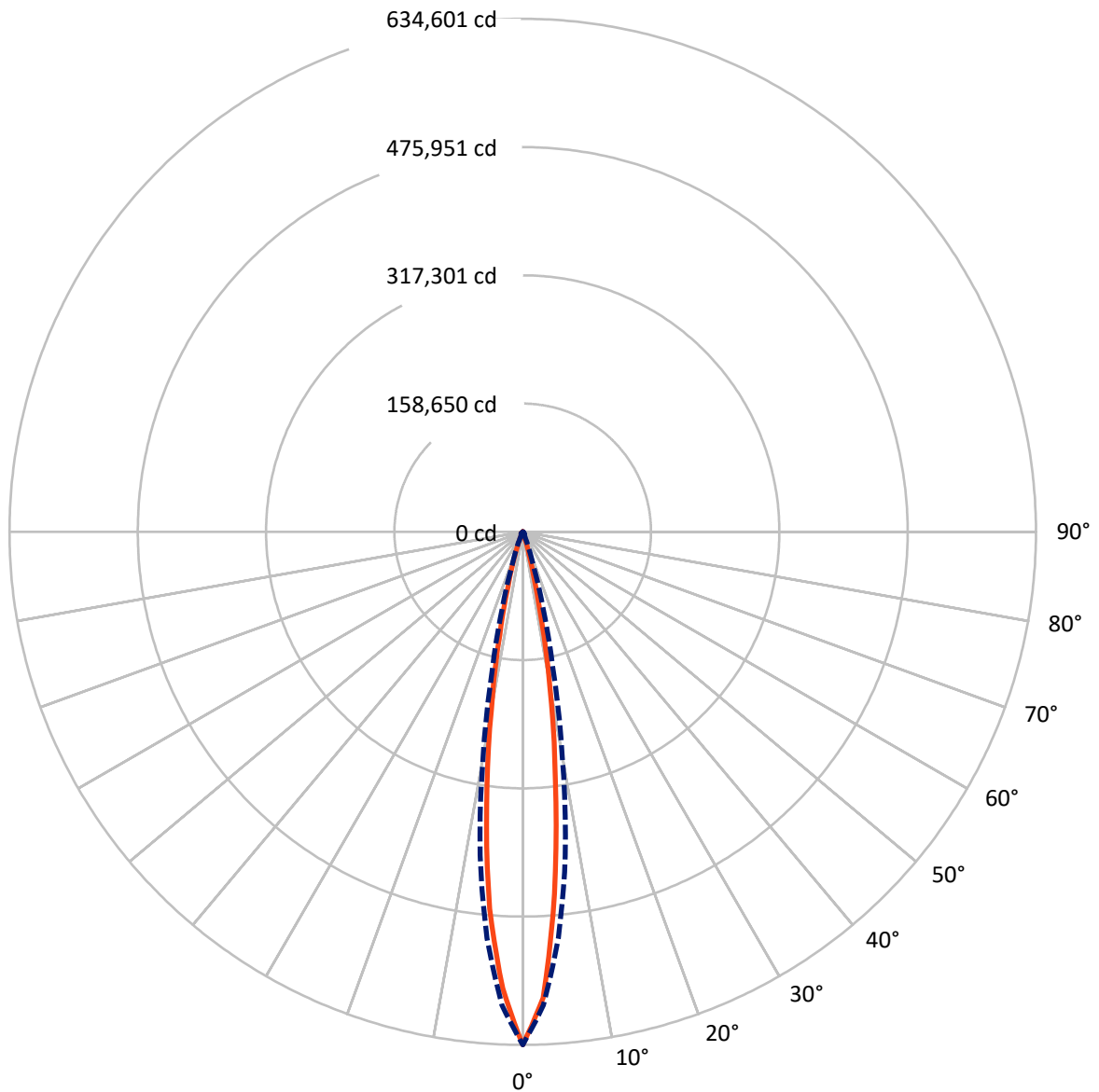
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### Lumen Table

90	0.2	0.5	0.7	0.8	1.0	0.8	0.7	0.5	0.2									
80	0.2	0.5	0.7	0.8	1.0	0.8	0.7	0.5	0.2									
70	0.2	0.1	0.2	0.7	0.8	0.5	0.4	0.3	0.3	0.4	0.5	0.8	0.7	0.2	0.1	0.2		
60		0.2	0.4	0.7	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.7	0.4	0.2			
50	0.3	0.3	0.5	0.4	0.5	0.6	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.5	0.3	0.3		
40		0.3	0.7	1.0	1.7	2.4	2.5	2.9	2.9	2.5	2.4	1.7	1.0	0.7	0.3			
30	0.4	0.6	1.6	3.8	7.3	8.3	11.8	23.6	23.6	11.8	8.3	7.3	3.8	1.6	0.6	0.4		
20		1.3	5.3	17.8	33.2	44.1	327.1	1362.3	1362.3	327.1	44.1	33.2	17.8	5.3	1.3			
10	0.5	2.1	10.5	44.8	72.6	165.0	2399.9	10399.2	10399.2	2399.9	165.0	72.6	44.8	10.5	2.1	0.5		
0		2.7	12.2	51.6	85.0	169.0	2575.6	10869.5	10869.5	2575.6	169.0	85.0	51.6	12.2	2.7			
-10	0.6	2.8	10.7	39.0	70.2	77.3	549.3	2133.5	2133.5	549.3	77.3	70.2	39.0	10.7	2.8	0.6		
-20		2.7	9.2	21.9	56.5	65.4	72.1	140.4	140.4	72.1	65.4	56.5	21.9	9.2	2.7			
-30	0.5	2.4	7.8	13.9	34.6	65.4	76.4	77.1	77.1	76.4	65.4	34.6	13.9	7.8	2.4	0.5		
-40		1.6	5.8	12.0	18.8	33.0	55.7	73.1	73.1	55.7	33.0	18.8	12.0	5.8	1.6			
-50	0.3	0.8	3.3	7.8	14.0	19.4	22.8	25.4	25.4	22.8	19.4	14.0	7.8	3.3	0.8	0.3		
-60		0.4	1.1	3.2	6.2	9.7	12.8	15.1	15.1	12.8	9.7	6.2	3.2	1.1	0.4			
-70	0.2	1.1	2.9	6.8	11.5	6.8	2.9	1.1	0.2							0.2		
-80		1.1	2.9	6.8	11.5	6.8	2.9	1.1	0.2									
-90	0.2	1.1	2.9	6.8	11.5	6.8	2.9	1.1	0.2									

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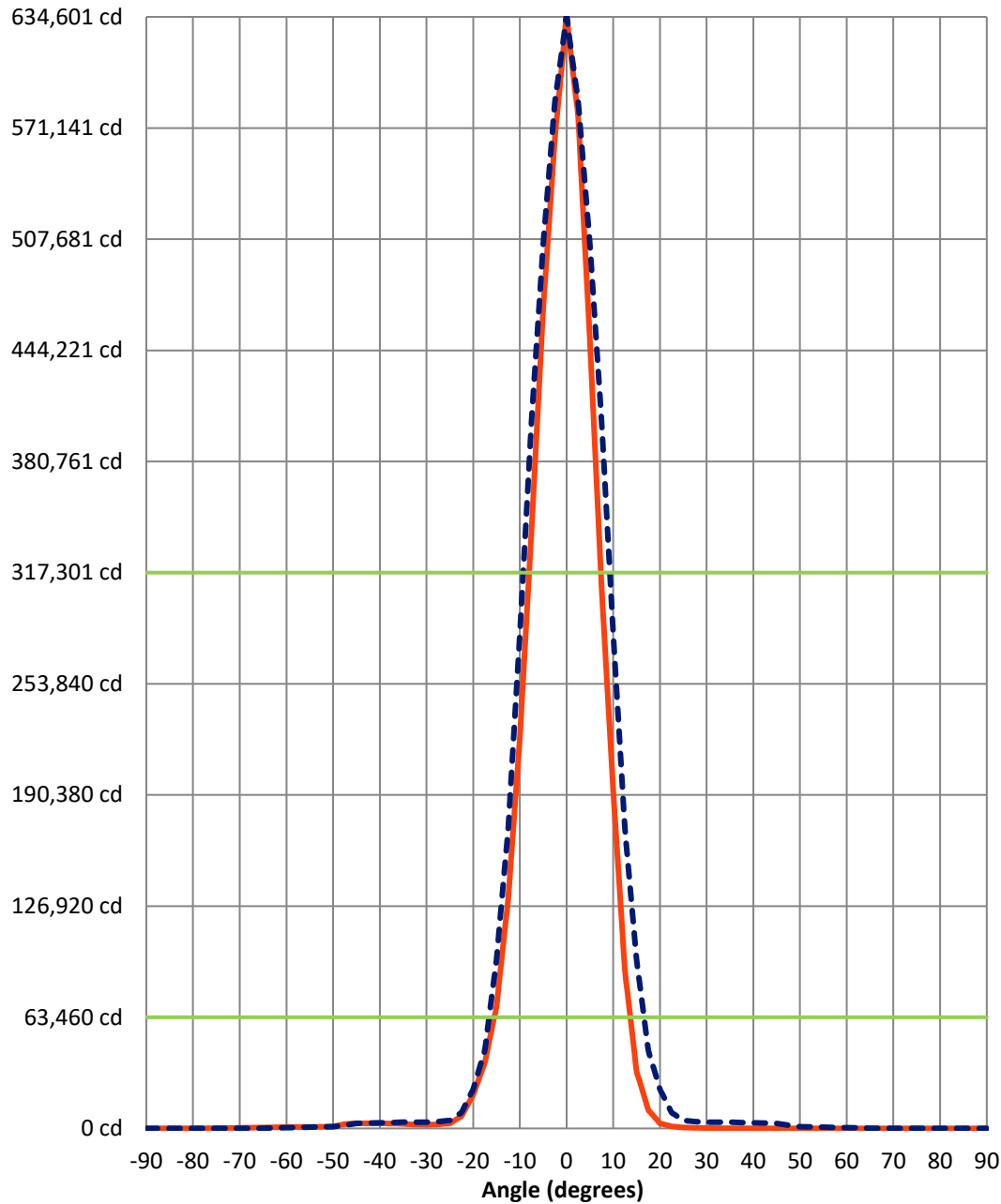
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 18.6°  
 V Angle: 15.4°  
 Lumens: 30089.3  
 Efficiency: 46.1%

**Field:**  
 H Angle: 33.2°  
 V Angle: 29.1°  
 Lumens: 55511.6  
 Efficiency: 85.1%

**Spill:**  
 Lumens: 9731.5  
 Efficiency: 14.9%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	8.1	8.1	8.1	8.5	8.9	9.3	9.7	9.7	9.7	9.7	9.7
87.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
85°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
77.5°	8.1	8.1	8.1	8.1	8.1	8.2	8.1	8.1	8.1	8.1	8.1
75°	8.1	8.1	8.1	8.1	8.2	8.4	8.2	8.1	8.1	8.2	8.2
72.5°	8.1	8.1	8.1	8.1	8.4	8.6	8.3	8.2	8.4	8.5	8.3
70°	8.1	8.1	8.1	8.2	8.7	8.8	8.4	8.6	8.8	8.7	8.8
67.5°	8.1	8.1	8.1	8.5	9.1	9.1	8.9	9.0	9.1	9.3	9.5
65°	8.1	8.1	8.1	8.8	9.4	9.4	9.4	9.4	9.7	10.0	10.1
62.5°	8.1	8.1	8.1	9.1	9.7	9.8	9.8	9.9	10.3	10.5	10.3
60°	8.1	8.1	8.1	9.5	10.1	10.2	10.3	10.4	10.8	10.9	10.6
57.5°	8.1	8.1	8.3	9.8	10.4	10.6	10.8	10.9	11.3	11.3	11.2
55°	8.1	8.1	8.5	10.1	10.7	11.0	11.4	11.5	11.7	11.8	12.0
52.5°	8.1	8.1	8.7	10.5	11.0	11.4	12.0	12.2	12.3	12.5	12.7
50°	8.1	8.1	8.9	10.8	11.3	11.9	12.6	12.9	12.8	13.2	14.7
47.5°	8.1	8.1	9.1	11.2	11.6	12.4	13.2	13.8	13.4	13.9	16.7
45°	8.1	8.1	9.2	11.4	11.9	13.0	14.0	14.7	14.4	15.5	18.6
42.5°	8.1	8.1	9.4	11.6	12.2	13.5	14.8	15.6	15.5	17.1	20.6
40°	8.1	8.1	9.5	11.7	12.6	14.1	15.7	16.7	16.9	18.6	22.2
37.5°	8.1	8.1	9.6	11.8	13.0	14.7	16.6	17.8	18.8	20.7	23.6
35°	8.1	8.1	9.7	11.8	13.5	15.4	17.6	18.9	20.6	23.1	24.6
32.5°	8.1	8.1	9.8	11.8	13.9	16.1	18.6	20.2	22.4	25.6	27.3
30°	8.1	8.1	9.9	11.9	14.4	16.9	19.6	21.5	24.2	28.3	30.3
27.5°	8.1	8.1	9.9	11.9	14.5	17.7	20.6	23.0	26.1	31.2	33.7
25°	8.1	8.1	9.9	11.9	14.5	18.4	21.7	24.5	28.4	34.1	37.5
22.5°	8.1	8.1	10.0	11.9	14.5	19.0	22.7	25.9	30.8	37.1	43.3
20°	8.1	8.1	10.0	11.8	14.5	18.9	23.8	27.3	33.3	40.3	49.5
17.5°	8.1	8.1	10.0	11.8	14.4	18.8	24.0	28.6	35.7	43.7	56.0
15°	8.1	8.1	10.0	11.8	14.2	18.6	23.5	29.1	38.2	47.0	62.7
12.5°	8.1	8.1	10.0	11.7	14.1	18.3	23.0	28.7	39.3	50.5	69.6
10°	8.1	8.1	9.9	11.6	13.9	18.0	22.4	28.3	39.2	52.0	76.2
7.5°	8.1	8.1	9.9	11.6	13.7	17.6	21.8	27.8	39.0	53.4	82.2
5°	8.1	8.1	9.8	11.5	13.4	17.1	21.0	27.2	38.5	54.6	88.1
2.5°	8.1	8.1	9.8	11.4	13.2	16.6	20.2	26.5	37.9	55.7	93.6
0°	8.1	8.1	9.7	11.3	12.9	16.1	19.4	25.8	37.1	56.5	98.5
-2.5°	8.1	8.1	9.7	11.3	13.0	16.3	20.2	28.5	43.7	67.7	113.8
-5°	8.1	8.2	9.7	11.3	13.2	16.4	21.0	31.1	50.0	78.2	128.1
-7.5°	8.1	8.2	9.7	11.3	13.3	16.5	21.7	33.5	55.8	88.0	141.1
-10°	8.1	8.2	9.7	11.2	13.3	16.6	22.3	35.5	60.8	96.8	152.5
-12.5°	8.1	8.3	9.6	11.2	13.4	16.6	22.7	37.1	64.9	104.5	163.4
-15°	8.1	8.3	9.6	11.1	13.4	16.7	23.0	38.2	69.1	112.5	172.9
-17.5°	8.1	8.3	9.6	11.1	13.4	16.6	23.1	40.1	73.6	119.2	180.3
-20°	8.1	8.4	9.6	11.0	13.3	16.6	23.5	42.1	76.8	124.4	185.4



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-CV5

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	8.1	8.4	9.5	10.9	13.3	16.5	24.1	43.2	78.7	128.1	188.2
-25°	8.1	8.4	9.5	10.8	13.1	16.6	24.4	43.4	79.1	130.1	188.4
-27.5°	8.1	8.4	9.5	10.8	13.0	16.8	24.3	42.5	78.0	130.5	190.0
-30°	8.1	8.4	9.5	10.7	12.8	16.8	23.6	40.4	76.5	128.9	189.5
-32.5°	8.1	8.5	9.5	10.5	12.8	16.8	22.6	39.3	74.1	125.3	186.8
-35°	8.1	8.5	9.5	10.4	12.7	16.7	22.1	38.0	70.1	119.4	181.8
-37.5°	8.1	8.5	9.4	10.3	12.6	16.5	21.9	35.9	64.4	111.3	168.1
-40°	8.1	8.5	9.4	10.2	12.5	16.3	21.6	33.2	57.0	102.8	152.2
-42.5°	8.1	8.5	9.4	10.1	12.4	16.1	21.1	29.7	51.5	90.2	134.8
-45°	8.1	8.5	9.4	10.0	12.3	15.8	20.5	26.9	46.6	76.1	116.2
-47.5°	8.1	8.5	9.4	10.0	12.3	15.5	19.7	26.0	40.7	61.1	99.3
-50°	8.1	8.5	9.4	10.0	12.2	15.1	19.1	24.8	33.2	52.6	81.1
-52.5°	8.1	8.5	9.4	10.1	12.0	14.6	18.6	23.5	29.5	43.6	62.8
-55°	8.1	8.5	9.5	10.2	11.9	14.4	17.9	22.1	27.4	34.1	52.1
-57.5°	8.1	8.5	9.5	10.2	11.7	14.1	17.2	21.2	25.2	30.0	40.8
-60°	8.1	8.4	9.5	10.2	11.5	13.8	16.5	20.1	23.1	27.5	32.0
-62.5°	8.1	8.4	9.4	10.2	11.4	13.4	16.0	18.9	21.8	24.8	29.1
-65°	8.1	8.4	9.3	10.1	11.2	13.0	15.4	17.8	20.4	23.1	26.1
-67.5°	8.1	8.4	9.2	10.1	11.1	12.6	14.8	17.0	19.0	21.5	23.9
-70°	8.1	8.4	9.1	10.0	10.9	12.3	14.2	16.2	18.0	19.8	22.1
-72.5°	8.1	8.3	9.0	9.9	10.7	11.9	13.5	15.3	17.0	18.7	20.4
-75°	8.1	8.3	8.9	9.7	10.5	11.5	12.9	14.4	16.0	17.6	19.2
-77.5°	8.1	8.3	8.8	9.5	10.2	11.0	12.1	13.4	14.8	16.4	17.9
-80°	8.1	8.2	8.6	9.3	10.0	10.6	11.4	12.4	13.5	14.8	16.2
-82.5°	8.1	8.2	8.5	9.1	9.7	10.3	10.9	11.5	12.2	13.1	14.2
-85°	8.1	8.2	8.4	8.9	9.4	10.0	10.5	10.9	11.3	11.8	12.4
-87.5°	8.1	8.1	8.2	8.7	9.2	9.6	10.1	10.3	10.5	10.8	11.1
-90°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1





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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°	9.7	9.7	9.7	9.7	10.1	10.5	10.9	11.3	11.3	11.3	11.3
87.5°	7.7	7.3	6.9	6.5	6.1	5.7	5.2	4.8	4.8	4.8	4.8
85°	7.7	7.3	6.9	6.5	6.2	5.9	5.7	5.5	5.4	5.3	5.1
82.5°	7.7	7.3	6.9	6.5	6.4	6.4	6.5	6.5	6.1	5.7	5.3
80°	7.8	7.4	7.1	7.0	7.0	7.0	6.8	6.6	6.1	5.8	5.6
77.5°	7.9	7.7	7.7	7.9	7.8	7.5	7.4	7.4	7.3	7.1	6.9
75°	8.0	8.1	8.2	8.2	8.0	8.0	8.1	8.1	8.0	7.8	7.8
72.5°	8.4	8.6	8.5	8.3	8.1	8.1	8.1	8.1	9.1	10.5	11.8
70°	9.0	9.1	8.8	8.4	8.1	8.6	10.4	12.5	14.7	16.9	19.8
67.5°	9.6	9.2	8.8	8.7	10.0	12.1	14.5	20.4	27.6	30.7	31.9
65°	9.7	9.3	9.7	10.9	12.7	17.0	23.4	31.8	40.8	42.4	41.4
62.5°	9.8	10.1	11.2	13.5	17.0	22.7	31.0	40.3	50.6	50.7	44.3
60°	10.5	11.1	13.6	17.3	21.4	27.8	37.2	44.4	51.9	54.9	41.9
57.5°	11.3	13.0	16.8	21.3	26.5	31.1	36.2	43.1	46.2	46.1	34.0
55°	12.8	15.7	20.4	25.9	29.8	28.7	32.2	34.6	35.2	32.8	23.7
52.5°	15.3	18.7	24.5	29.3	30.1	27.1	25.2	26.5	24.9	21.2	18.4
50°	17.8	22.5	28.3	31.4	29.7	24.4	20.2	20.3	19.1	17.5	15.7
47.5°	20.5	25.9	31.5	32.9	27.3	23.3	19.5	18.1	17.3	16.5	15.1
45°	23.1	28.4	34.4	30.8	26.5	24.1	21.2	17.8	17.8	17.3	17.2
42.5°	25.3	30.3	32.8	28.9	28.3	26.5	24.0	20.8	19.5	20.2	20.7
40°	26.7	31.7	31.5	31.6	31.0	30.0	28.3	25.7	23.0	24.8	25.7
37.5°	27.7	31.6	32.5	36.0	34.9	34.6	33.4	33.7	31.8	30.8	34.7
35°	28.3	32.3	37.9	42.1	41.5	40.1	42.2	43.5	42.8	41.6	47.7
32.5°	29.1	34.0	44.7	49.2	50.9	50.0	52.6	55.1	57.7	60.9	70.7
30°	32.2	40.2	52.4	57.3	62.4	68.2	66.8	68.8	76.0	98.9	120.3
27.5°	38.4	48.4	60.1	68.1	77.1	90.6	93.5	90.0	112.0	148.5	186.7
25°	45.5	72.8	68.5	80.9	98.9	117.5	127.6	135.5	165.5	219.0	258.9
22.5°	59.3	105.0	104.4	94.9	123.5	148.6	172.8	226.4	302.4	326.8	334.6
20°	83.1	137.3	147.5	150.7	160.4	183.4	224.5	350.4	502.4	559.6	498.4
17.5°	111.0	172.6	195.0	219.5	249.4	256.2	291.2	499.5	751.2	837.3	837.6
15°	142.1	210.4	245.4	295.0	344.3	375.5	491.5	743.2	1020.5	1156.8	1234.7
12.5°	175.5	250.0	298.1	375.8	443.9	498.5	751.8	1153.3	1411.1	1530.1	1757.2
10°	210.0	290.8	352.1	460.0	546.6	624.0	1044.6	1590.8	1842.0	1958.5	2217.9
7.5°	244.3	328.9	404.9	545.8	651.0	750.4	1356.2	2042.8	2257.7	2361.6	2573.0
5°	277.4	362.6	446.7	610.9	733.5	854.0	1639.0	2493.2	2660.5	2744.3	2863.6
2.5°	307.8	394.6	486.8	669.5	799.7	919.4	1761.9	2690.9	2874.5	3000.2	3101.9
0°	334.2	424.6	524.6	723.2	862.0	979.9	1851.6	2854.1	3047.8	3197.9	3320.6
-2.5°	335.5	430.9	537.0	721.0	848.2	970.2	1765.9	2817.2	3107.2	3332.5	3516.4
-5°	332.3	434.6	546.1	714.0	831.0	955.6	1653.2	2728.7	3119.3	3359.2	3547.1
-7.5°	325.7	435.5	551.5	701.4	805.5	918.8	1554.6	2548.0	2978.3	3183.7	3383.3
-10°	317.0	433.0	543.6	672.3	768.8	868.2	1429.4	2337.9	2833.8	3010.2	3195.5
-12.5°	309.4	428.0	531.9	643.5	731.6	816.2	1265.4	2106.8	2690.5	2844.2	2992.2
-15°	300.6	421.3	518.7	616.7	694.7	763.7	1060.9	1862.3	2550.5	2723.1	2837.5
-17.5°	291.2	413.2	504.5	593.1	658.9	711.7	818.6	1568.4	2317.4	2580.5	2714.3
-20°	281.8	403.9	489.5	574.2	625.2	675.0	746.6	1269.1	1953.9	2408.3	2579.2



REPORT NUMBER: P731596 (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°	273.0	393.6	474.9	554.7	607.2	651.5	708.6	977.7	1569.9	2213.7	2419.8
-25°	269.8	377.8	460.6	535.9	594.0	629.1	669.7	733.0	1215.4	1827.2	2240.6
-27.5°	268.9	364.5	443.7	516.1	583.5	610.1	641.2	689.4	936.5	1430.7	2019.7
-30°	264.7	345.6	425.1	495.3	563.2	599.4	619.0	657.1	723.3	1103.0	1586.2
-32.5°	252.4	325.3	403.0	473.1	539.1	593.0	608.0	640.1	689.0	797.6	1189.7
-35°	237.1	306.3	379.0	449.2	514.4	574.3	607.9	626.9	659.5	711.3	887.5
-37.5°	222.7	285.8	354.2	423.0	486.8	547.4	605.9	622.7	644.6	681.6	748.7
-40°	205.9	264.0	329.8	395.2	456.8	516.9	574.4	623.3	636.5	673.8	720.8
-42.5°	186.7	242.9	304.6	365.8	423.4	482.3	540.3	595.0	646.3	671.8	708.1
-45°	165.7	219.2	278.0	332.8	386.6	444.2	500.7	557.6	623.8	683.4	707.6
-47.5°	142.8	193.1	248.1	297.3	347.5	400.9	457.5	517.5	584.0	650.0	718.1
-50°	119.4	165.9	213.7	260.3	306.3	355.3	407.4	470.5	534.1	599.9	666.0
-52.5°	97.8	136.8	179.6	222.5	264.8	307.8	357.8	414.8	476.1	539.3	597.9
-55°	75.0	109.8	144.7	184.2	223.8	262.0	306.2	357.7	410.8	469.0	522.1
-57.5°	58.3	82.5	112.6	144.9	181.5	218.5	258.7	299.9	347.1	396.1	439.9
-60°	45.0	60.8	82.5	109.8	137.9	172.9	210.7	248.3	286.3	322.2	359.7
-62.5°	33.2	45.6	59.4	76.8	101.2	127.2	159.5	193.9	228.6	259.1	286.4
-65°	29.9	33.3	43.0	55.1	66.6	89.5	113.9	138.2	168.0	194.8	219.7
-67.5°	26.5	29.6	32.7	37.5	48.3	60.3	72.7	94.0	115.3	133.8	152.3
-70°	24.2	26.1	28.7	31.4	34.3	39.8	50.4	61.2	72.2	85.1	101.2
-72.5°	22.1	23.8	25.5	27.1	29.6	32.6	35.7	38.9	45.3	53.9	62.8
-75°	20.4	21.6	23.0	24.4	26.0	27.8	29.8	32.5	35.0	37.2	39.2
-77.5°	18.8	19.7	20.7	21.8	23.0	24.4	25.9	27.4	29.0	30.6	32.5
-80°	17.0	17.8	18.4	19.2	20.0	20.9	21.9	23.0	23.8	24.7	25.7
-82.5°	14.8	15.3	15.9	16.4	16.9	17.4	17.9	18.6	18.8	19.1	19.4
-85°	12.7	12.9	13.3	13.6	14.0	14.3	14.6	14.9	14.8	14.7	14.5
-87.5°	11.2	11.3	11.4	11.5	11.8	12.0	12.2	12.4	12.2	11.9	11.6
-90°	7.7	7.3	6.9	6.5	6.1	5.7	5.2	4.8	4.8	4.8	4.8



REPORT NUMBER: P731596 (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°
90°	11.3	11.3	11.3	11.3	11.3	15.7	20.2	24.6	29.1	40.0	50.8
87.5°	4.8	4.4	4.0	3.6	3.2	2.8	2.4	2.0	1.6	1.6	1.6
85°	4.8	4.4	4.0	3.6	3.2	3.1	3.1	3.1	3.1	2.8	2.4
82.5°	4.8	4.6	4.5	4.4	4.4	4.1	3.9	3.6	3.2	2.8	2.4
80°	5.3	5.3	5.2	5.1	4.8	4.4	4.0	3.6	3.2	3.2	3.2
77.5°	6.7	6.5	6.0	5.5	4.9	4.7	4.6	4.5	4.5	4.3	4.0
75°	7.9	7.8	7.7	7.2	6.6	6.4	6.4	6.4	6.2	5.9	5.6
72.5°	12.8	13.0	12.4	12.0	11.0	10.6	10.7	10.6	10.3	10.2	10.0
70°	21.3	21.6	20.9	19.3	16.9	15.3	14.6	13.8	12.9	13.0	13.8
67.5°	30.9	28.7	26.5	23.9	20.4	17.8	16.5	15.1	13.6	12.8	12.5
65°	37.5	29.7	25.3	22.3	20.4	18.5	16.4	14.4	12.7	11.5	10.9
62.5°	35.8	25.3	20.8	18.7	17.0	15.6	13.6	11.7	10.1	9.1	9.1
60°	30.7	21.2	16.3	14.5	12.9	11.4	10.3	9.4	8.6	8.2	8.7
57.5°	24.0	16.7	12.8	12.2	11.3	10.2	9.6	9.3	8.7	8.1	8.6
55°	17.5	14.6	13.0	12.5	12.0	11.6	11.0	10.2	9.6	9.1	9.4
52.5°	15.1	14.2	14.2	13.9	13.0	12.1	11.2	11.1	10.9	10.7	10.9
50°	14.7	14.6	14.7	14.2	13.5	13.0	12.8	12.7	12.5	12.4	12.4
47.5°	15.1	15.3	15.3	14.6	14.4	14.6	14.5	14.4	14.7	14.8	15.1
45°	16.6	17.1	17.3	17.5	17.1	17.6	17.6	17.5	20.1	20.4	19.2
42.5°	20.2	22.4	23.9	23.4	21.3	25.6	31.9	34.7	31.9	27.7	25.0
40°	28.7	31.5	32.5	34.7	43.2	49.7	43.8	37.7	35.1	37.2	39.0
37.5°	40.2	43.8	54.0	67.0	62.3	50.7	51.9	52.5	51.3	54.7	55.1
35°	58.7	75.4	87.8	83.8	77.9	76.7	79.6	80.5	72.7	76.3	77.5
32.5°	94.2	114.4	115.3	110.2	113.0	113.6	121.4	116.2	109.6	112.8	121.8
30°	135.9	155.9	163.2	153.9	136.8	146.5	154.6	152.1	156.8	170.6	185.2
27.5°	201.2	214.2	226.3	207.6	173.7	188.5	194.3	188.4	220.6	238.0	272.3
25°	279.2	293.9	303.3	287.6	264.2	252.1	270.4	284.2	323.5	361.8	415.6
22.5°	364.0	403.5	414.7	373.9	373.8	373.7	380.8	427.5	480.4	564.9	706.6
20°	463.0	541.4	604.1	562.6	509.4	545.4	589.8	647.1	797.7	1181.0	1616.8
17.5°	813.5	758.6	873.9	877.8	801.2	885.1	1044.9	1250.5	1886.3	3841.5	5123.2
15°	1384.2	1326.3	1254.5	1258.2	1333.8	1498.4	1825.3	2963.7	5772.2	9945.1	14257.8
12.5°	1966.9	1880.0	1774.3	1746.3	1911.3	2242.6	3784.9	8469.6	15082.5	22284.0	40757.0
10°	2426.7	2380.4	2282.9	2355.7	2631.4	3604.3	6758.5	14883.8	28529.7	52387.8	81826.2
7.5°	2696.5	2678.9	2705.1	2918.9	3368.3	5930.0	12864.9	24942.9	47429.6	83583.5	136619.5
5°	2967.3	2982.0	3061.8	3355.8	3931.0	7542.9	18157.2	34661.3	68674.6	121818.8	203948.8
2.5°	3267.4	3280.9	3388.1	3758.3	4416.6	7795.0	19416.8	40850.5	87073.5	156715.8	265584.7
0°	3612.8	3535.3	3567.6	3905.0	4584.6	9091.7	22407.9	44796.5	96368.2	171211.4	282251.9
-2.5°	3735.4	3569.7	3539.4	3824.3	4420.0	8056.9	20016.8	41656.4	88512.1	156851.1	263190.9
-5°	3652.2	3425.7	3335.1	3568.1	4133.6	7064.8	16830.9	37904.4	78585.2	134178.4	223017.6
-7.5°	3445.4	3228.2	3094.6	3270.0	3763.7	5821.4	12892.4	28703.8	57201.0	99277.5	158426.6
-10°	3267.8	3059.6	2856.0	2912.2	3254.1	4333.2	8026.1	18801.4	37791.8	67015.1	100723.2
-12.5°	3114.1	2939.6	2634.8	2542.1	2733.7	3240.2	5601.7	12814.9	24173.5	38015.4	61644.1
-15°	2955.0	2812.1	2507.7	2361.1	2429.4	2676.1	3315.8	6155.2	13236.3	22530.6	32709.6
-17.5°	2778.6	2680.5	2497.5	2281.0	2188.4	2287.6	2593.2	3470.0	5882.2	11674.6	18021.5
-20°	2659.1	2604.6	2470.2	2280.2	2161.2	2115.3	2221.4	2489.9	3082.2	5302.3	8036.6



REPORT NUMBER: P731596 (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°	2509.5	2486.8	2396.1	2341.8	2254.7	2156.4	2063.4	2146.7	2343.3	2645.8	3590.7
-25°	2367.9	2373.4	2379.3	2450.9	2436.9	2299.5	2123.2	1996.9	2063.1	2158.0	2349.2
-27.5°	2211.2	2289.0	2409.8	2544.4	2607.0	2490.8	2283.0	2093.7	2037.3	1981.9	2062.7
-30°	2073.5	2232.0	2361.3	2525.9	2633.8	2599.1	2492.0	2364.4	2226.2	2130.1	2098.6
-32.5°	1718.4	2157.5	2277.2	2409.5	2570.7	2621.9	2609.7	2560.7	2501.6	2433.9	2363.8
-35°	1335.5	1823.0	2224.0	2300.2	2405.6	2557.5	2677.2	2685.5	2677.9	2653.0	2634.2
-37.5°	943.2	1407.2	1829.7	2168.9	2295.3	2396.6	2579.8	2719.9	2799.5	2793.3	2795.1
-40°	783.2	911.0	1336.1	1728.2	2018.8	2289.7	2435.9	2619.2	2764.9	2824.3	2869.5
-42.5°	755.6	805.1	855.9	1150.0	1524.2	1852.0	2104.1	2336.7	2542.5	2689.1	2805.6
-45°	736.0	769.7	808.2	857.0	909.7	1202.5	1528.3	1831.1	2029.1	2227.1	2433.8
-47.5°	735.3	743.5	770.8	805.2	838.7	886.2	940.6	1014.5	1233.6	1432.5	1642.5
-50°	713.3	746.6	755.8	766.3	787.8	813.8	839.4	866.0	891.0	906.8	928.1
-52.5°	648.5	691.5	731.7	763.1	771.3	779.2	786.6	803.8	820.5	834.4	850.2
-55°	570.2	615.7	659.9	696.0	728.5	759.1	782.1	785.9	791.0	797.0	806.6
-57.5°	485.4	529.6	571.6	609.4	644.9	678.0	701.8	719.6	736.1	751.9	772.3
-60°	398.1	437.2	475.5	512.1	547.1	580.5	602.4	620.5	636.1	651.6	672.6
-62.5°	312.6	342.6	377.2	410.2	440.6	469.3	492.1	511.4	527.5	543.6	563.1
-65°	243.1	265.4	291.0	315.1	337.6	364.1	388.7	408.9	425.1	441.0	458.4
-67.5°	173.5	194.2	218.1	240.5	261.5	281.7	302.3	321.6	339.6	357.8	375.9
-70°	115.9	130.5	147.9	166.9	186.6	204.9	222.6	239.5	255.6	271.7	287.2
-72.5°	71.9	81.0	90.6	103.3	116.5	129.3	141.9	154.4	166.8	181.3	195.8
-75°	41.0	44.7	52.0	59.0	65.7	71.9	77.3	81.9	85.7	94.2	103.6
-77.5°	34.4	36.2	38.1	40.1	42.0	44.6	47.6	50.6	53.7	60.6	68.1
-80°	26.8	28.0	29.3	30.7	32.2	34.2	36.3	38.2	40.1	45.2	50.5
-82.5°	19.8	20.4	20.9	21.4	21.9	23.5	25.1	26.7	28.2	32.4	36.6
-85°	14.4	14.6	14.8	15.0	15.2	16.6	17.9	19.3	20.6	24.7	28.9
-87.5°	11.3	11.3	11.3	11.3	11.3	12.7	14.1	15.3	16.5	21.0	25.4
-90°	4.8	4.4	4.0	3.6	3.2	2.8	2.4	2.0	1.6	1.6	1.6



REPORT NUMBER: P731596 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-CV5

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	61.7	72.6	61.3	50.0	61.3	72.6	61.7	50.8	40.0	29.1	24.6
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0
85°	2.0	1.6	1.6	1.6	1.6	1.6	2.0	2.4	2.8	3.1	3.1
82.5°	2.0	1.6	2.4	3.2	2.4	1.6	2.0	2.4	2.8	3.2	3.6
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.6
77.5°	3.6	3.2	3.2	3.2	3.2	3.2	3.6	4.0	4.3	4.5	4.5
75°	5.2	4.8	4.8	4.8	4.8	4.8	5.2	5.6	5.9	6.2	6.4
72.5°	9.9	9.6	9.7	9.7	9.7	9.6	9.9	10.0	10.2	10.3	10.6
70°	14.8	15.8	16.0	16.1	16.0	15.8	14.8	13.8	13.0	12.9	13.8
67.5°	12.1	11.5	11.3	11.3	11.3	11.5	12.1	12.5	12.8	13.6	15.1
65°	10.4	9.8	9.7	9.7	9.7	9.8	10.4	10.9	11.5	12.7	14.4
62.5°	9.3	9.6	9.7	9.7	9.7	9.6	9.3	9.1	9.1	10.1	11.7
60°	9.1	9.6	9.7	9.7	9.7	9.6	9.1	8.7	8.2	8.6	9.4
57.5°	9.1	9.6	9.7	9.7	9.7	9.6	9.1	8.6	8.1	8.7	9.3
55°	9.6	9.7	10.3	11.3	10.3	9.7	9.6	9.4	9.1	9.6	10.2
52.5°	11.1	11.2	11.3	11.3	11.3	11.2	11.1	10.9	10.7	10.9	11.1
50°	12.6	12.8	12.9	12.9	12.9	12.8	12.6	12.4	12.4	12.5	12.7
47.5°	15.5	15.8	16.0	16.1	16.0	15.8	15.5	15.1	14.8	14.7	14.4
45°	19.5	19.4	19.3	19.4	19.3	19.4	19.5	19.2	20.4	20.1	17.5
42.5°	25.9	26.7	27.2	27.4	27.2	26.7	25.9	25.0	27.7	31.9	34.7
40°	41.0	41.7	41.3	40.4	41.3	41.7	41.0	39.0	37.2	35.1	37.7
37.5°	55.8	56.9	57.6	58.1	57.6	56.9	55.8	55.1	54.7	51.3	52.5
35°	78.3	79.2	78.6	80.7	78.6	79.2	78.3	77.5	76.3	72.7	80.5
32.5°	127.6	128.3	124.3	125.9	124.3	128.3	127.6	121.8	112.8	109.6	116.2
30°	195.4	204.4	209.8	216.3	209.8	204.4	195.4	185.2	170.6	156.8	152.1
27.5°	297.4	319.4	333.8	342.2	333.8	319.4	297.4	272.3	238.0	220.6	188.4
25°	464.5	497.9	515.8	529.5	515.8	497.9	464.5	415.6	361.8	323.5	284.2
22.5°	902.2	1029.8	1101.2	1168.7	1101.2	1029.8	902.2	706.6	564.9	480.4	427.5
20°	2313.6	2462.6	2743.3	2917.0	2743.3	2462.6	2313.6	1616.8	1181.0	797.7	647.1
17.5°	7793.5	9936.0	10336.0	10638.2	10336.0	9936.0	7793.5	5123.2	3841.5	1886.3	1250.5
15°	23209.2	29568.0	31279.4	32736.2	31279.4	29568.0	23209.2	14257.8	9945.1	5772.2	2963.7
12.5°	56037.0	73538.4	83057.5	90289.6	83057.5	73538.4	56037.0	40757.0	22284.0	15082.5	8469.6
10°	117405.8	151669.4	177675.6	192736.4	177675.6	151669.4	117405.8	81826.2	52387.8	28529.7	14883.8
7.5°	199937.3	258011.2	291958.9	309238.8	291958.9	258011.2	199937.3	136619.5	83583.5	47429.6	24942.9
5°	301561.6	376529.3	423907.0	449958.7	423907.0	376529.3	301561.6	203948.8	121818.8	68674.6	34661.3
2.5°	376679.2	472855.4	543873.2	577278.5	543873.2	472855.4	376679.2	265584.7	156715.8	87073.5	40850.5
0°	403878.0	504781.6	585965.8	634601.0	585965.8	504781.6	403878.0	282251.9	171211.4	96368.2	44796.5
-2.5°	377913.3	472639.9	535871.3	565295.5	535871.3	472639.9	377913.3	263190.9	156851.1	88512.1	41656.4
-5°	321361.6	403259.5	448699.0	467933.8	448699.0	403259.5	321361.6	223017.6	134178.4	78585.2	37904.4
-7.5°	228000.4	290472.6	322409.4	341355.8	322409.4	290472.6	228000.4	158426.6	99277.5	57201.0	28703.8
-10°	143548.3	178667.6	209217.2	223036.6	209217.2	178667.6	143548.3	100723.2	67015.1	37791.8	18801.4
-12.5°	83365.3	105599.9	123474.9	131068.1	123474.9	105599.9	83365.3	61644.1	38015.4	24173.5	12814.9
-15°	46070.0	58220.6	66450.3	69669.5	66450.3	58220.6	46070.0	32709.6	22530.6	13236.3	6155.2
-17.5°	25618.5	31514.6	33853.7	37604.9	33853.7	31514.6	25618.5	18021.5	11674.6	5882.2	3470.0
-20°	12550.7	15608.0	16588.3	19234.2	16588.3	15608.0	12550.7	8036.6	5302.3	3082.2	2489.9



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	4875.2	5596.8	5757.6	7012.5	5757.6	5596.8	4875.2	3590.7	2645.8	2343.3	2146.7
-25°	2531.8	2653.5	2710.0	2857.3	2710.0	2653.5	2531.8	2349.2	2158.0	2063.1	1996.9
-27.5°	2128.3	2187.3	2234.3	2305.2	2234.3	2187.3	2128.3	2062.7	1981.9	2037.3	2093.7
-30°	2074.3	2063.9	2065.3	2072.7	2065.3	2063.9	2074.3	2098.6	2130.1	2226.2	2364.4
-32.5°	2307.9	2272.1	2254.3	2187.4	2254.3	2272.1	2307.9	2363.8	2433.9	2501.6	2560.7
-35°	2622.8	2619.8	2622.1	2590.9	2622.1	2619.8	2622.8	2634.2	2653.0	2677.9	2685.5
-37.5°	2796.0	2801.0	2807.2	2797.6	2807.2	2801.0	2796.0	2795.1	2793.3	2799.5	2719.9
-40°	2885.2	2899.8	2910.1	2907.3	2910.1	2899.8	2885.2	2869.5	2824.3	2764.9	2619.2
-42.5°	2863.8	2899.8	2917.5	2923.5	2917.5	2899.8	2863.8	2805.6	2689.1	2542.5	2336.7
-45°	2622.9	2770.0	2858.6	2883.1	2858.6	2770.0	2622.9	2433.8	2227.1	2029.1	1831.1
-47.5°	1878.9	2096.4	2300.4	2479.5	2300.4	2096.4	1878.9	1642.5	1432.5	1233.6	1014.5
-50°	954.7	979.3	1029.5	1102.6	1029.5	979.3	954.7	928.1	906.8	891.0	866.0
-52.5°	865.8	880.0	894.0	907.2	894.0	880.0	865.8	850.2	834.4	820.5	803.8
-55°	815.8	824.5	831.0	836.2	831.0	824.5	815.8	806.6	797.0	791.0	785.9
-57.5°	789.7	804.2	816.6	826.5	816.6	804.2	789.7	772.3	751.9	736.1	719.6
-60°	691.1	707.0	721.9	734.5	721.9	707.0	691.1	672.6	651.6	636.1	620.5
-62.5°	579.8	593.8	608.4	621.5	608.4	593.8	579.8	563.1	543.6	527.5	511.4
-65°	473.9	487.4	499.6	510.1	499.6	487.4	473.9	458.4	441.0	425.1	408.9
-67.5°	392.7	408.2	423.5	437.5	423.5	408.2	392.7	375.9	357.8	339.6	321.6
-70°	301.3	313.9	324.9	334.2	324.9	313.9	301.3	287.2	271.7	255.6	239.5
-72.5°	208.9	220.8	234.4	247.0	234.4	220.8	208.9	195.8	181.3	166.8	154.4
-75°	112.7	121.3	129.5	137.2	129.5	121.3	112.7	103.6	94.2	85.7	81.9
-77.5°	75.7	83.1	88.5	93.6	88.5	83.1	75.7	68.1	60.6	53.7	50.6
-80°	55.7	60.9	65.2	69.4	65.2	60.9	55.7	50.5	45.2	40.1	38.2
-82.5°	40.9	45.0	48.4	51.7	48.4	45.0	40.9	36.6	32.4	28.2	26.7
-85°	33.0	37.0	40.3	43.6	40.3	37.0	33.0	28.9	24.7	20.6	19.3
-87.5°	29.7	34.0	36.3	38.7	36.3	34.0	29.7	25.4	21.0	16.5	15.3
-90°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	20.2	15.7	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
87.5°	2.4	2.8	3.2	3.6	4.0	4.4	4.8	4.8	4.8	4.8	4.8
85°	3.1	3.1	3.2	3.6	4.0	4.4	4.8	5.1	5.3	5.4	5.5
82.5°	3.9	4.1	4.4	4.4	4.5	4.6	4.8	5.3	5.7	6.1	6.5
80°	4.0	4.4	4.8	5.1	5.2	5.3	5.3	5.6	5.8	6.1	6.6
77.5°	4.6	4.7	4.9	5.5	6.0	6.5	6.7	6.9	7.1	7.3	7.4
75°	6.4	6.4	6.6	7.2	7.7	7.8	7.9	7.8	7.8	8.0	8.1
72.5°	10.7	10.6	11.0	12.0	12.4	13.0	12.8	11.8	10.5	9.1	8.1
70°	14.6	15.3	16.9	19.3	20.9	21.6	21.3	19.8	16.9	14.7	12.5
67.5°	16.5	17.8	20.4	23.9	26.5	28.7	30.9	31.9	30.7	27.6	20.4
65°	16.4	18.5	20.4	22.3	25.3	29.7	37.5	41.4	42.4	40.8	31.8
62.5°	13.6	15.6	17.0	18.7	20.8	25.3	35.8	44.3	50.7	50.6	40.3
60°	10.3	11.4	12.9	14.5	16.3	21.2	30.7	41.9	54.9	51.9	44.4
57.5°	9.6	10.2	11.3	12.2	12.8	16.7	24.0	34.0	46.1	46.2	43.1
55°	11.0	11.6	12.0	12.5	13.0	14.6	17.5	23.7	32.8	35.2	34.6
52.5°	11.2	12.1	13.0	13.9	14.2	14.2	15.1	18.4	21.2	24.9	26.5
50°	12.8	13.0	13.5	14.2	14.7	14.6	14.7	15.7	17.5	19.1	20.3
47.5°	14.5	14.6	14.4	14.6	15.3	15.3	15.1	15.1	16.5	17.3	18.1
45°	17.6	17.6	17.1	17.5	17.3	17.1	16.6	17.2	17.3	17.8	17.8
42.5°	31.9	25.6	21.3	23.4	23.9	22.4	20.2	20.7	20.2	19.5	20.8
40°	43.8	49.7	43.2	34.7	32.5	31.5	28.7	25.7	24.8	23.0	25.7
37.5°	51.9	50.7	62.3	67.0	54.0	43.8	40.2	34.7	30.8	31.8	33.7
35°	79.6	76.7	77.9	83.8	87.8	75.4	58.7	47.7	41.6	42.8	43.5
32.5°	121.4	113.6	113.0	110.2	115.3	114.4	94.2	70.7	60.9	57.7	55.1
30°	154.6	146.5	136.8	153.9	163.2	155.9	135.9	120.3	98.9	76.0	68.8
27.5°	194.3	188.5	173.7	207.6	226.3	214.2	201.2	186.7	148.5	112.0	90.0
25°	270.4	252.1	264.2	287.6	303.3	293.9	279.2	258.9	219.0	165.5	135.5
22.5°	380.8	373.7	373.8	373.9	414.7	403.5	364.0	334.6	326.8	302.4	226.4
20°	589.8	545.4	509.4	562.6	604.1	541.4	463.0	498.4	559.6	502.4	350.4
17.5°	1044.9	885.1	801.2	877.8	873.9	758.6	813.5	837.6	837.3	751.2	499.5
15°	1825.3	1498.4	1333.8	1258.2	1254.5	1326.3	1384.2	1234.7	1156.8	1020.5	743.2
12.5°	3784.9	2242.6	1911.3	1746.3	1774.3	1880.0	1966.9	1757.2	1530.1	1411.1	1153.3
10°	6758.5	3604.3	2631.4	2355.7	2282.9	2380.4	2426.7	2217.9	1958.5	1842.0	1590.8
7.5°	12864.9	5930.0	3368.3	2918.9	2705.1	2678.9	2696.5	2573.0	2361.6	2257.7	2042.8
5°	18157.2	7542.9	3931.0	3355.8	3061.8	2982.0	2967.3	2863.6	2744.3	2660.5	2493.2
2.5°	19416.8	7795.0	4416.6	3758.3	3388.1	3280.9	3267.4	3101.9	3000.2	2874.5	2690.9
0°	22407.9	9091.7	4584.6	3905.0	3567.6	3535.3	3612.8	3320.6	3197.9	3047.8	2854.1
-2.5°	20016.8	8056.9	4420.0	3824.3	3539.4	3569.7	3735.4	3516.4	3332.5	3107.2	2817.2
-5°	16830.9	7064.8	4133.6	3568.1	3335.1	3425.7	3652.2	3547.1	3359.2	3119.3	2728.7
-7.5°	12892.4	5821.4	3763.7	3270.0	3094.6	3228.2	3445.4	3383.3	3183.7	2978.3	2548.0
-10°	8026.1	4333.2	3254.1	2912.2	2856.0	3059.6	3267.8	3195.5	3010.2	2833.8	2337.9
-12.5°	5601.7	3240.2	2733.7	2542.1	2634.8	2939.6	3114.1	2992.2	2844.2	2690.5	2106.8
-15°	3315.8	2676.1	2429.4	2361.1	2507.7	2812.1	2955.0	2837.5	2723.1	2550.5	1862.3
-17.5°	2593.2	2287.6	2188.4	2281.0	2497.5	2680.5	2778.6	2714.3	2580.5	2317.4	1568.4
-20°	2221.4	2115.3	2161.2	2280.2	2470.2	2604.6	2659.1	2579.2	2408.3	1953.9	1269.1



REPORT NUMBER: P731596 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	2063.4	2156.4	2254.7	2341.8	2396.1	2486.8	2509.5	2419.8	2213.7	1569.9	977.7
-25°	2123.2	2299.5	2436.9	2450.9	2379.3	2373.4	2367.9	2240.6	1827.2	1215.4	733.0
-27.5°	2283.0	2490.8	2607.0	2544.4	2409.8	2289.0	2211.2	2019.7	1430.7	936.5	689.4
-30°	2492.0	2599.1	2633.8	2525.9	2361.3	2232.0	2073.5	1586.2	1103.0	723.3	657.1
-32.5°	2609.7	2621.9	2570.7	2409.5	2277.2	2157.5	1718.4	1189.7	797.6	689.0	640.1
-35°	2677.2	2557.5	2405.6	2300.2	2224.0	1823.0	1335.5	887.5	711.3	659.5	626.9
-37.5°	2579.8	2396.6	2295.3	2168.9	1829.7	1407.2	943.2	748.7	681.6	644.6	622.7
-40°	2435.9	2289.7	2018.8	1728.2	1336.1	911.0	783.2	720.8	673.8	636.5	623.3
-42.5°	2104.1	1852.0	1524.2	1150.0	855.9	805.1	755.6	708.1	671.8	646.3	595.0
-45°	1528.3	1202.5	909.7	857.0	808.2	769.7	736.0	707.6	683.4	623.8	557.6
-47.5°	940.6	886.2	838.7	805.2	770.8	743.5	735.3	718.1	650.0	584.0	517.5
-50°	839.4	813.8	787.8	766.3	755.8	746.6	713.3	666.0	599.9	534.1	470.5
-52.5°	786.6	779.2	771.3	763.1	731.7	691.5	648.5	597.9	539.3	476.1	414.8
-55°	782.1	759.1	728.5	696.0	659.9	615.7	570.2	522.1	469.0	410.8	357.7
-57.5°	701.8	678.0	644.9	609.4	571.6	529.6	485.4	439.9	396.1	347.1	299.9
-60°	602.4	580.5	547.1	512.1	475.5	437.2	398.1	359.7	322.2	286.3	248.3
-62.5°	492.1	469.3	440.6	410.2	377.2	342.6	312.6	286.4	259.1	228.6	193.9
-65°	388.7	364.1	337.6	315.1	291.0	265.4	243.1	219.7	194.8	168.0	138.2
-67.5°	302.3	281.7	261.5	240.5	218.1	194.2	173.5	152.3	133.8	115.3	94.0
-70°	222.6	204.9	186.6	166.9	147.9	130.5	115.9	101.2	85.1	72.2	61.2
-72.5°	141.9	129.3	116.5	103.3	90.6	81.0	71.9	62.8	53.9	45.3	38.9
-75°	77.3	71.9	65.7	59.0	52.0	44.7	41.0	39.2	37.2	35.0	32.5
-77.5°	47.6	44.6	42.0	40.1	38.1	36.2	34.4	32.5	30.6	29.0	27.4
-80°	36.3	34.2	32.2	30.7	29.3	28.0	26.8	25.7	24.7	23.8	23.0
-82.5°	25.1	23.5	21.9	21.4	20.9	20.4	19.8	19.4	19.1	18.8	18.6
-85°	17.9	16.6	15.2	15.0	14.8	14.6	14.4	14.5	14.7	14.8	14.9
-87.5°	14.1	12.7	11.3	11.3	11.3	11.3	11.3	11.6	11.9	12.2	12.4
-90°	2.4	2.8	3.2	3.6	4.0	4.4	4.8	4.8	4.8	4.8	4.8





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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°	10.9	10.5	10.1	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
87.5°	5.2	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.1	8.1	8.1
85°	5.7	5.9	6.2	6.5	6.9	7.3	7.7	8.1	8.1	8.1	8.1
82.5°	6.5	6.4	6.4	6.5	6.9	7.3	7.7	8.1	8.1	8.1	8.1
80°	6.8	7.0	7.0	7.0	7.1	7.4	7.8	8.1	8.1	8.1	8.1
77.5°	7.4	7.5	7.8	7.9	7.7	7.7	7.9	8.1	8.1	8.1	8.1
75°	8.1	8.0	8.0	8.2	8.2	8.1	8.0	8.2	8.2	8.1	8.1
72.5°	8.1	8.1	8.1	8.3	8.5	8.6	8.4	8.3	8.5	8.4	8.2
70°	10.4	8.6	8.1	8.4	8.8	9.1	9.0	8.8	8.7	8.8	8.6
67.5°	14.5	12.1	10.0	8.7	8.8	9.2	9.6	9.5	9.3	9.1	9.0
65°	23.4	17.0	12.7	10.9	9.7	9.3	9.7	10.1	10.0	9.7	9.4
62.5°	31.0	22.7	17.0	13.5	11.2	10.1	9.8	10.3	10.5	10.3	9.9
60°	37.2	27.8	21.4	17.3	13.6	11.1	10.5	10.6	10.9	10.8	10.4
57.5°	36.2	31.1	26.5	21.3	16.8	13.0	11.3	11.2	11.3	11.3	10.9
55°	32.2	28.7	29.8	25.9	20.4	15.7	12.8	12.0	11.8	11.7	11.5
52.5°	25.2	27.1	30.1	29.3	24.5	18.7	15.3	12.7	12.5	12.3	12.2
50°	20.2	24.4	29.7	31.4	28.3	22.5	17.8	14.7	13.2	12.8	12.9
47.5°	19.5	23.3	27.3	32.9	31.5	25.9	20.5	16.7	13.9	13.4	13.8
45°	21.2	24.1	26.5	30.8	34.4	28.4	23.1	18.6	15.5	14.4	14.7
42.5°	24.0	26.5	28.3	28.9	32.8	30.3	25.3	20.6	17.1	15.5	15.6
40°	28.3	30.0	31.0	31.6	31.5	31.7	26.7	22.2	18.6	16.9	16.7
37.5°	33.4	34.6	34.9	36.0	32.5	31.6	27.7	23.6	20.7	18.8	17.8
35°	42.2	40.1	41.5	42.1	37.9	32.3	28.3	24.6	23.1	20.6	18.9
32.5°	52.6	50.0	50.9	49.2	44.7	34.0	29.1	27.3	25.6	22.4	20.2
30°	66.8	68.2	62.4	57.3	52.4	40.2	32.2	30.3	28.3	24.2	21.5
27.5°	93.5	90.6	77.1	68.1	60.1	48.4	38.4	33.7	31.2	26.1	23.0
25°	127.6	117.5	98.9	80.9	68.5	72.8	45.5	37.5	34.1	28.4	24.5
22.5°	172.8	148.6	123.5	94.9	104.4	105.0	59.3	43.3	37.1	30.8	25.9
20°	224.5	183.4	160.4	150.7	147.5	137.3	83.1	49.5	40.3	33.3	27.3
17.5°	291.2	256.2	249.4	219.5	195.0	172.6	111.0	56.0	43.7	35.7	28.6
15°	491.5	375.5	344.3	295.0	245.4	210.4	142.1	62.7	47.0	38.2	29.1
12.5°	751.8	498.5	443.9	375.8	298.1	250.0	175.5	69.6	50.5	39.3	28.7
10°	1044.6	624.0	546.6	460.0	352.1	290.8	210.0	76.2	52.0	39.2	28.3
7.5°	1356.2	750.4	651.0	545.8	404.9	328.9	244.3	82.2	53.4	39.0	27.8
5°	1639.0	854.0	733.5	610.9	446.7	362.6	277.4	88.1	54.6	38.5	27.2
2.5°	1761.9	919.4	799.7	669.5	486.8	394.6	307.8	93.6	55.7	37.9	26.5
0°	1851.6	979.9	862.0	723.2	524.6	424.6	334.2	98.5	56.5	37.1	25.8
-2.5°	1765.9	970.2	848.2	721.0	537.0	430.9	335.5	113.8	67.7	43.7	28.5
-5°	1653.2	955.6	831.0	714.0	546.1	434.6	332.3	128.1	78.2	50.0	31.1
-7.5°	1554.6	918.8	805.5	701.4	551.5	435.5	325.7	141.1	88.0	55.8	33.5
-10°	1429.4	868.2	768.8	672.3	543.6	433.0	317.0	152.5	96.8	60.8	35.5
-12.5°	1265.4	816.2	731.6	643.5	531.9	428.0	309.4	163.4	104.5	64.9	37.1
-15°	1060.9	763.7	694.7	616.7	518.7	421.3	300.6	172.9	112.5	69.1	38.2
-17.5°	818.6	711.7	658.9	593.1	504.5	413.2	291.2	180.3	119.2	73.6	40.1
-20°	746.6	675.0	625.2	574.2	489.5	403.9	281.8	185.4	124.4	76.8	42.1



REPORT NUMBER: P731596 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-CV5

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	708.6	651.5	607.2	554.7	474.9	393.6	273.0	188.2	128.1	78.7	43.2
-25°	669.7	629.1	594.0	535.9	460.6	377.8	269.8	188.4	130.1	79.1	43.4
-27.5°	641.2	610.1	583.5	516.1	443.7	364.5	268.9	190.0	130.5	78.0	42.5
-30°	619.0	599.4	563.2	495.3	425.1	345.6	264.7	189.5	128.9	76.5	40.4
-32.5°	608.0	593.0	539.1	473.1	403.0	325.3	252.4	186.8	125.3	74.1	39.3
-35°	607.9	574.3	514.4	449.2	379.0	306.3	237.1	181.8	119.4	70.1	38.0
-37.5°	605.9	547.4	486.8	423.0	354.2	285.8	222.7	168.1	111.3	64.4	35.9
-40°	574.4	516.9	456.8	395.2	329.8	264.0	205.9	152.2	102.8	57.0	33.2
-42.5°	540.3	482.3	423.4	365.8	304.6	242.9	186.7	134.8	90.2	51.5	29.7
-45°	500.7	444.2	386.6	332.8	278.0	219.2	165.7	116.2	76.1	46.6	26.9
-47.5°	457.5	400.9	347.5	297.3	248.1	193.1	142.8	99.3	61.1	40.7	26.0
-50°	407.4	355.3	306.3	260.3	213.7	165.9	119.4	81.1	52.6	33.2	24.8
-52.5°	357.8	307.8	264.8	222.5	179.6	136.8	97.8	62.8	43.6	29.5	23.5
-55°	306.2	262.0	223.8	184.2	144.7	109.8	75.0	52.1	34.1	27.4	22.1
-57.5°	258.7	218.5	181.5	144.9	112.6	82.5	58.3	40.8	30.0	25.2	21.2
-60°	210.7	172.9	137.9	109.8	82.5	60.8	45.0	32.0	27.5	23.1	20.1
-62.5°	159.5	127.2	101.2	76.8	59.4	45.6	33.2	29.1	24.8	21.8	18.9
-65°	113.9	89.5	66.6	55.1	43.0	33.3	29.9	26.1	23.1	20.4	17.8
-67.5°	72.7	60.3	48.3	37.5	32.7	29.6	26.5	23.9	21.5	19.0	17.0
-70°	50.4	39.8	34.3	31.4	28.7	26.1	24.2	22.1	19.8	18.0	16.2
-72.5°	35.7	32.6	29.6	27.1	25.5	23.8	22.1	20.4	18.7	17.0	15.3
-75°	29.8	27.8	26.0	24.4	23.0	21.6	20.4	19.2	17.6	16.0	14.4
-77.5°	25.9	24.4	23.0	21.8	20.7	19.7	18.8	17.9	16.4	14.8	13.4
-80°	21.9	20.9	20.0	19.2	18.4	17.8	17.0	16.2	14.8	13.5	12.4
-82.5°	17.9	17.4	16.9	16.4	15.9	15.3	14.8	14.2	13.1	12.2	11.5
-85°	14.6	14.3	14.0	13.6	13.3	12.9	12.7	12.4	11.8	11.3	10.9
-87.5°	12.2	12.0	11.8	11.5	11.4	11.3	11.2	11.1	10.8	10.5	10.3
-90°	5.2	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.1	8.1	8.1



REPORT NUMBER: P731596 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	9.7	9.3	8.9	8.5	8.1	8.1	8.1
87.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1
85°	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	8.1	8.1	8.1	8.1	8.1	8.1	8.1
77.5°	8.1	8.2	8.1	8.1	8.1	8.1	8.1
75°	8.2	8.4	8.2	8.1	8.1	8.1	8.1
72.5°	8.3	8.6	8.4	8.1	8.1	8.1	8.1
70°	8.4	8.8	8.7	8.2	8.1	8.1	8.1
67.5°	8.9	9.1	9.1	8.5	8.1	8.1	8.1
65°	9.4	9.4	9.4	8.8	8.1	8.1	8.1
62.5°	9.8	9.8	9.7	9.1	8.1	8.1	8.1
60°	10.3	10.2	10.1	9.5	8.1	8.1	8.1
57.5°	10.8	10.6	10.4	9.8	8.3	8.1	8.1
55°	11.4	11.0	10.7	10.1	8.5	8.1	8.1
52.5°	12.0	11.4	11.0	10.5	8.7	8.1	8.1
50°	12.6	11.9	11.3	10.8	8.9	8.1	8.1
47.5°	13.2	12.4	11.6	11.2	9.1	8.1	8.1
45°	14.0	13.0	11.9	11.4	9.2	8.1	8.1
42.5°	14.8	13.5	12.2	11.6	9.4	8.1	8.1
40°	15.7	14.1	12.6	11.7	9.5	8.1	8.1
37.5°	16.6	14.7	13.0	11.8	9.6	8.1	8.1
35°	17.6	15.4	13.5	11.8	9.7	8.1	8.1
32.5°	18.6	16.1	13.9	11.8	9.8	8.1	8.1
30°	19.6	16.9	14.4	11.9	9.9	8.1	8.1
27.5°	20.6	17.7	14.5	11.9	9.9	8.1	8.1
25°	21.7	18.4	14.5	11.9	9.9	8.1	8.1
22.5°	22.7	19.0	14.5	11.9	10.0	8.1	8.1
20°	23.8	18.9	14.5	11.8	10.0	8.1	8.1
17.5°	24.0	18.8	14.4	11.8	10.0	8.1	8.1
15°	23.5	18.6	14.2	11.8	10.0	8.1	8.1
12.5°	23.0	18.3	14.1	11.7	10.0	8.1	8.1
10°	22.4	18.0	13.9	11.6	9.9	8.1	8.1
7.5°	21.8	17.6	13.7	11.6	9.9	8.1	8.1
5°	21.0	17.1	13.4	11.5	9.8	8.1	8.1
2.5°	20.2	16.6	13.2	11.4	9.8	8.1	8.1
0°	19.4	16.1	12.9	11.3	9.7	8.1	8.1
-2.5°	20.2	16.3	13.0	11.3	9.7	8.1	8.1
-5°	21.0	16.4	13.2	11.3	9.7	8.2	8.1
-7.5°	21.7	16.5	13.3	11.3	9.7	8.2	8.1
-10°	22.3	16.6	13.3	11.2	9.7	8.2	8.1
-12.5°	22.7	16.6	13.4	11.2	9.6	8.3	8.1
-15°	23.0	16.7	13.4	11.1	9.6	8.3	8.1
-17.5°	23.1	16.6	13.4	11.1	9.6	8.3	8.1
-20°	23.5	16.6	13.3	11.0	9.6	8.4	8.1



REPORT NUMBER: P731596 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	24.1	16.5	13.3	10.9	9.5	8.4	8.1
-25°	24.4	16.6	13.1	10.8	9.5	8.4	8.1
-27.5°	24.3	16.8	13.0	10.8	9.5	8.4	8.1
-30°	23.6	16.8	12.8	10.7	9.5	8.4	8.1
-32.5°	22.6	16.8	12.8	10.5	9.5	8.5	8.1
-35°	22.1	16.7	12.7	10.4	9.5	8.5	8.1
-37.5°	21.9	16.5	12.6	10.3	9.4	8.5	8.1
-40°	21.6	16.3	12.5	10.2	9.4	8.5	8.1
-42.5°	21.1	16.1	12.4	10.1	9.4	8.5	8.1
-45°	20.5	15.8	12.3	10.0	9.4	8.5	8.1
-47.5°	19.7	15.5	12.3	10.0	9.4	8.5	8.1
-50°	19.1	15.1	12.2	10.0	9.4	8.5	8.1
-52.5°	18.6	14.6	12.0	10.1	9.4	8.5	8.1
-55°	17.9	14.4	11.9	10.2	9.5	8.5	8.1
-57.5°	17.2	14.1	11.7	10.2	9.5	8.5	8.1
-60°	16.5	13.8	11.5	10.2	9.5	8.4	8.1
-62.5°	16.0	13.4	11.4	10.2	9.4	8.4	8.1
-65°	15.4	13.0	11.2	10.1	9.3	8.4	8.1
-67.5°	14.8	12.6	11.1	10.1	9.2	8.4	8.1
-70°	14.2	12.3	10.9	10.0	9.1	8.4	8.1
-72.5°	13.5	11.9	10.7	9.9	9.0	8.3	8.1
-75°	12.9	11.5	10.5	9.7	8.9	8.3	8.1
-77.5°	12.1	11.0	10.2	9.5	8.8	8.3	8.1
-80°	11.4	10.6	10.0	9.3	8.6	8.2	8.1
-82.5°	10.9	10.3	9.7	9.1	8.5	8.2	8.1
-85°	10.5	10.0	9.4	8.9	8.4	8.2	8.1
-87.5°	10.1	9.6	9.2	8.7	8.2	8.1	8.1
-90°	8.1	8.1	8.1	8.1	8.1	8.1	8.1

(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

