

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: P731610 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-5S-CV1**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731610 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-34)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-40-70-5S-CV1  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

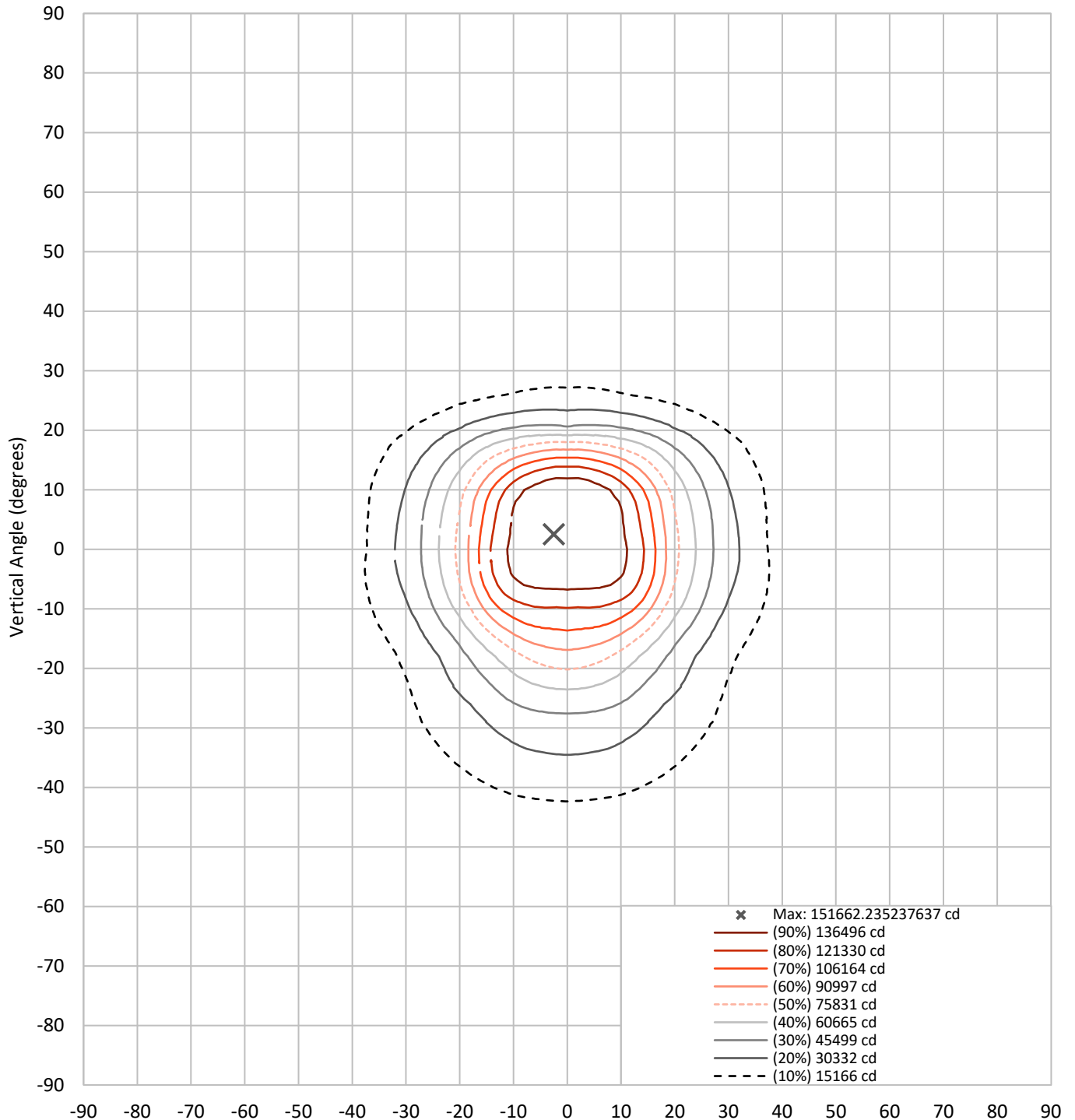
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 4V
Luminaire Lumens:	80970.1 lumens	Max Intensity:	151662.2 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 2.5°V
Efficacy:	116.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	41.4°H x 38°V	Field Angle (10%):	74.2°H x 69.6°V
Beam Lumens:	44615 lumens	Field Lumens:	75300.6 lumens
Beam Efficiency:	55.1%	Field Efficiency:	93.0%

Input Watts (W): 697.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Candela Plot





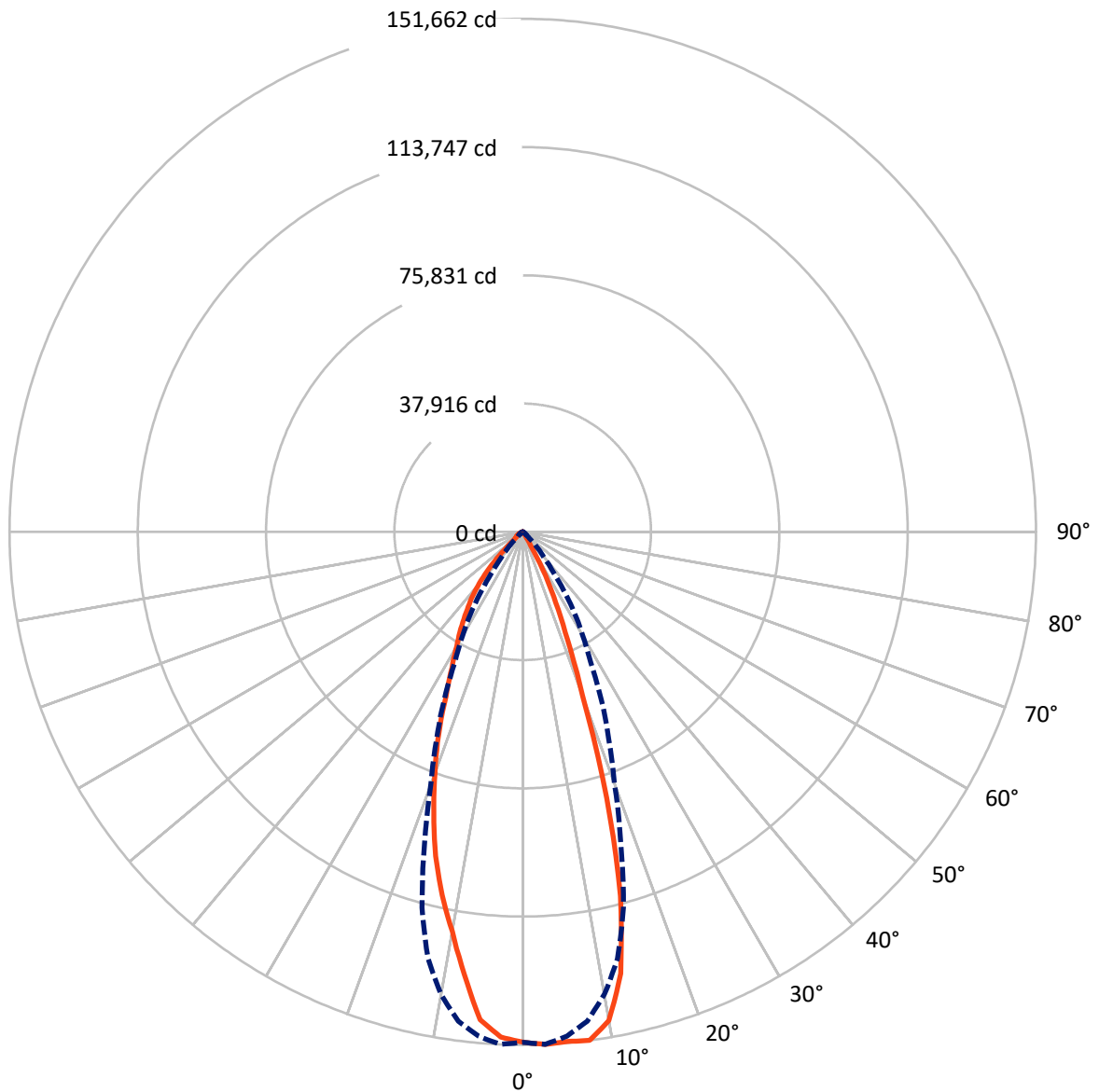
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### Lumen Table

90	0.1		0.3		0.6		0.6		0.4		0.6		0.6		0.3		0.1	
80	0.1		0.3		0.6		0.6		0.4		0.6		0.6		0.3		0.1	
70	0.1	0.1	0.1	0.4	0.6	0.5	0.3	0.3	0.3	0.3	0.5	0.6	0.4	0.1	0.1	0.1		
60		0.1	0.3	0.8	0.9	0.4	0.3	0.3	0.3	0.3	0.4	0.9	0.8	0.3	0.1			
50	0.2	0.1	0.3	0.6	0.8	1.1	1.3	1.2	1.2	1.3	1.1	0.8	0.6	0.3	0.1	0.2		
40		0.2	0.8	2.4	5.3	11.4	27.0	38.5	38.5	27.0	11.4	5.3	2.4	0.8	0.2			
30	0.2	0.4	4.3	16.2	88.3	271.1	545.4	733.8	733.8	545.4	271.1	88.3	16.2	4.3	0.4	0.2		
20		1.2	10.6	58.3	363.8	1035.8	2147.2	3092.3	3092.3	2147.2	1035.8	363.8	58.3	10.6	1.2			
10	0.3	2.0	14.3	92.1	522.9	1490.0	3219.4	4451.9	4451.9	3219.4	1490.0	522.9	92.1	14.3	2.0	0.3		
0		2.5	15.3	96.3	526.7	1452.6	3172.6	4205.2	4205.2	3172.6	1452.6	526.7	96.3	15.3	2.5			
-10	0.4	2.9	14.7	64.7	346.3	958.2	2038.2	2899.1	2899.1	2038.2	958.2	346.3	64.7	14.7	2.9	0.4		
-20		2.9	13.9	36.0	204.1	586.8	1140.6	1613.1	1613.1	1140.6	586.8	204.1	36.0	13.9	2.9			
-30	0.4	2.3	11.3	26.8	82.0	323.5	631.2	863.8	863.8	631.2	323.5	82.0	26.8	11.3	2.3	0.4		
-40		1.5	7.3	20.9	40.3	75.2	178.3	277.2	277.2	178.3	75.2	40.3	20.9	7.3	1.5			
-50	0.2	0.8	3.7	11.4	24.7	40.3	55.0	63.7	63.7	55.0	40.3	24.7	11.4	3.7	0.8	0.2		
-60		0.3	1.3	3.9	8.5	14.4	21.3	25.1	25.1	21.3	14.4	8.5	3.9	1.3	0.3			
-70	0.2		0.8		2.9		6.8		9.1		6.8		2.9		0.8		0.2	
-80	0.2		0.8		2.9		6.8		9.1		6.8		2.9		0.8		0.2	
-90	0.2		0.8		2.9		6.8		9.1		6.8		2.9		0.8		0.2	

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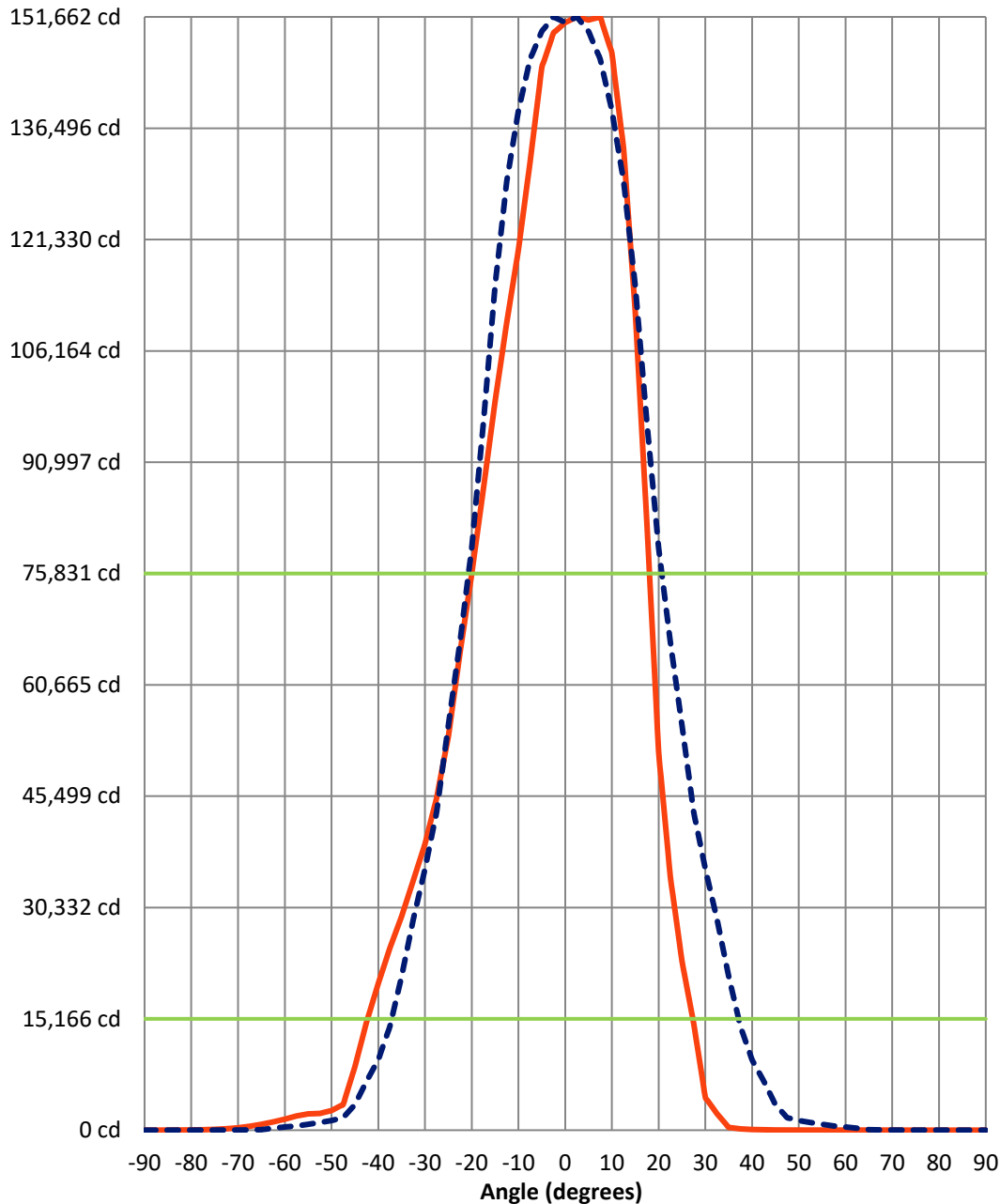
### Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg    - - - Horizontal Distribution Through 2.5-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 41.4°  
 V Angle: 38°  
 Lumens: 44615  
 Efficiency: 55.1%

**Field:**  
 H Angle: 74.2°  
 V Angle: 69.6°  
 Lumens: 75300.6  
 Efficiency: 93.0%

**Spill:**  
 Lumens: 5669.4  
 Efficiency: 7.0%

- Vertical Distribution through -2.5-Deg
- - Horizontal Distribution through 2.5-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°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.0	5.4	4.9	4.3
85°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.0	5.4	4.9	4.3
82.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.0	5.5	5.1	4.9
80°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.1	5.8	5.7	5.8
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.3	6.2	6.3	6.5
75°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.5	6.5	6.5
72.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
70°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
67.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
65°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
62.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
60°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
57.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.6	6.5	6.5	6.5	6.7
55°	6.5	6.5	6.5	6.5	6.5	6.5	6.7	6.6	6.5	6.6	7.1
52.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.9	6.7	6.5	7.1	7.5
50°	6.5	6.5	6.5	6.5	6.5	6.7	7.1	6.8	6.7	7.6	8.6
47.5°	6.5	6.5	6.5	6.5	6.5	7.0	7.3	6.9	7.3	8.3	9.7
45°	6.5	6.5	6.5	6.5	6.5	7.2	7.4	7.0	7.9	9.1	10.7
42.5°	6.5	6.5	6.5	6.5	6.5	7.5	7.5	7.4	8.6	9.8	11.4
40°	6.5	6.5	6.5	6.5	6.6	7.7	7.7	8.0	9.2	10.4	12.0
37.5°	6.5	6.5	6.5	6.6	6.8	8.0	7.8	8.5	9.9	11.2	12.6
35°	6.5	6.5	6.5	6.6	7.1	8.2	7.9	9.1	10.5	11.9	13.5
32.5°	6.5	6.5	6.5	6.7	7.3	8.3	8.1	9.6	11.0	12.8	15.2
30°	6.5	6.5	6.5	6.8	7.5	8.4	8.5	10.1	11.6	13.7	17.3
27.5°	6.5	6.5	6.5	6.9	7.8	8.5	8.9	10.5	12.2	14.6	19.7
25°	6.5	6.5	6.5	7.1	8.0	8.6	9.3	11.0	13.0	16.2	22.5
22.5°	6.5	6.5	6.5	7.2	8.2	8.7	9.6	11.4	13.7	18.3	27.6
20°	6.5	6.5	6.5	7.4	8.3	8.7	10.0	11.8	14.5	20.5	33.1
17.5°	6.5	6.5	6.5	7.5	8.5	8.7	10.2	12.2	15.2	22.7	38.9
15°	6.5	6.5	6.5	7.7	8.5	8.7	10.4	12.5	15.9	25.0	44.9
12.5°	6.5	6.5	6.5	7.9	8.6	8.7	10.5	12.6	16.6	27.3	50.9
10°	6.5	6.5	6.5	8.0	8.7	8.7	10.6	12.8	17.3	29.9	56.8
7.5°	6.5	6.5	6.5	8.2	8.7	8.7	10.7	12.9	17.9	32.4	62.4
5°	6.5	6.5	6.5	8.4	8.7	8.7	10.8	12.9	18.5	34.8	67.4
2.5°	6.5	6.5	6.5	8.5	8.7	8.7	10.8	13.0	19.1	37.1	72.0
0°	6.5	6.5	6.5	8.7	8.7	8.7	10.8	13.0	19.5	39.0	75.9
-2.5°	6.5	6.5	6.6	8.7	8.7	8.9	11.4	15.4	26.1	50.9	94.7
-5°	6.5	6.5	6.7	8.7	8.7	9.2	11.9	17.6	32.5	62.2	112.3
-7.5°	6.5	6.5	6.8	8.7	8.7	9.4	12.4	19.7	38.3	72.6	128.4
-10°	6.5	6.5	6.9	8.6	8.7	9.6	12.8	21.5	43.4	81.8	142.6
-12.5°	6.5	6.5	7.0	8.6	8.7	9.7	13.2	23.0	47.6	89.9	156.3
-15°	6.5	6.5	7.0	8.6	8.7	9.8	13.5	24.2	51.5	97.6	167.9
-17.5°	6.5	6.5	7.1	8.5	8.7	9.9	13.7	26.0	55.3	103.5	176.4
-20°	6.5	6.5	7.2	8.5	8.7	10.0	14.2	28.1	57.9	107.4	181.4



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-5S-CV1

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.5	6.5	7.2	8.5	8.7	10.0	15.3	29.6	59.2	109.1	182.5
-25°	6.5	6.5	7.3	8.5	8.7	10.2	16.1	30.4	59.1	108.5	179.7
-27.5°	6.5	6.5	7.3	8.5	8.7	10.4	16.5	30.5	57.5	106.5	178.5
-30°	6.5	6.5	7.3	8.5	8.7	10.4	16.5	29.8	56.5	104.5	174.2
-32.5°	6.5	6.5	7.3	8.5	8.8	10.3	16.1	29.6	55.6	100.4	166.6
-35°	6.5	6.5	7.3	8.5	8.9	10.1	15.8	29.1	53.6	94.2	155.5
-37.5°	6.5	6.5	7.3	8.6	9.0	9.8	15.5	28.0	50.4	85.8	141.3
-40°	6.5	6.5	7.3	8.6	9.0	9.9	14.9	26.2	46.0	79.5	127.3
-42.5°	6.5	6.5	7.2	8.7	9.1	10.0	14.1	23.7	42.4	72.1	111.7
-45°	6.5	6.5	7.1	8.7	9.1	10.0	13.0	21.4	38.8	63.7	95.5
-47.5°	6.5	6.5	7.1	8.7	9.1	9.9	11.6	19.7	34.3	54.4	85.0
-50°	6.5	6.5	7.0	8.5	9.0	9.9	11.3	17.6	28.7	48.0	73.4
-52.5°	6.5	6.5	6.9	8.3	9.0	9.8	11.1	15.2	24.8	40.8	61.4
-55°	6.5	6.5	6.8	8.2	8.9	9.6	10.9	12.7	21.4	32.9	52.2
-57.5°	6.5	6.5	6.6	8.0	8.8	9.5	10.7	12.3	17.7	27.5	42.1
-60°	6.5	6.5	6.5	7.8	8.7	9.3	10.3	11.9	14.4	22.7	33.0
-62.5°	6.5	6.5	6.5	7.6	8.5	9.1	10.0	11.4	13.6	17.5	26.8
-65°	6.5	6.5	6.5	7.4	8.3	8.8	9.6	10.8	12.7	15.4	20.2
-67.5°	6.5	6.5	6.5	7.2	8.1	8.6	9.2	10.3	11.6	13.9	16.8
-70°	6.5	6.5	6.5	7.0	7.9	8.5	8.8	9.8	11.0	12.2	14.6
-72.5°	6.5	6.5	6.5	6.9	7.7	8.4	8.7	9.2	10.3	11.5	12.6
-75°	6.5	6.5	6.5	6.9	7.6	8.2	8.7	9.0	9.7	10.7	11.8
-77.5°	6.5	6.5	6.5	6.8	7.4	8.1	8.6	8.9	9.4	10.0	10.9
-80°	6.5	6.5	6.5	6.8	7.2	7.9	8.7	8.8	9.1	9.5	10.1
-82.5°	6.5	6.5	6.5	6.7	7.1	7.6	8.2	8.5	8.7	8.9	9.2
-85°	6.5	6.5	6.5	6.6	6.9	7.2	7.6	7.8	8.0	8.2	8.4
-87.5°	6.5	6.5	6.5	6.6	6.7	6.9	7.1	7.2	7.3	7.3	7.4
-90°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.0	5.4	4.9	4.3





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
85°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
82.5°	4.9	4.9	4.7	4.3	4.3	4.3	4.3	4.6	4.7	4.6	4.5
80°	5.8	5.5	4.9	4.4	4.5	4.9	5.4	6.0	5.9	5.6	5.2
77.5°	6.1	5.5	5.0	4.4	4.8	5.5	6.1	6.4	6.4	6.3	6.4
75°	6.1	5.6	5.3	5.3	5.8	6.3	6.5	6.9	7.2	7.3	7.1
72.5°	6.3	6.0	6.1	6.4	6.6	6.9	7.4	8.2	8.7	8.6	8.5
70°	6.4	6.5	6.5	6.5	6.6	7.4	8.5	9.6	10.3	10.7	11.8
67.5°	6.5	6.5	6.5	6.6	7.4	8.6	9.8	12.3	15.6	16.8	18.0
65°	6.5	6.5	6.8	7.5	8.6	10.3	13.0	16.7	23.2	26.2	27.5
62.5°	6.5	6.7	7.2	8.4	9.7	11.9	17.4	24.6	32.7	37.1	36.2
60°	6.6	6.8	8.2	9.8	11.5	16.3	23.6	31.8	42.2	49.5	44.5
57.5°	6.7	7.7	9.8	11.8	15.5	20.3	27.6	37.6	48.1	59.3	51.3
55°	7.5	9.4	11.5	14.5	18.4	22.0	29.4	38.7	50.3	57.5	50.5
52.5°	9.0	11.0	13.0	16.4	20.1	23.1	27.5	36.2	43.1	49.0	45.1
50°	10.5	11.9	14.0	17.9	21.3	23.1	22.8	29.5	35.2	37.8	38.3
47.5°	11.4	12.8	15.3	19.2	22.0	22.5	20.4	23.8	28.1	30.7	30.0
45°	12.2	14.2	17.0	20.3	22.4	21.6	21.3	20.1	25.4	27.8	28.2
42.5°	12.9	15.8	19.1	21.8	22.6	23.7	24.2	24.3	27.1	32.5	35.3
40°	14.2	17.4	21.8	24.0	24.4	28.2	32.0	34.9	36.9	44.2	49.5
37.5°	15.6	20.1	25.4	29.1	29.8	36.4	42.3	61.5	65.5	59.8	78.6
35°	16.8	23.2	32.0	41.2	46.4	48.2	74.6	100.6	111.7	109.4	125.2
32.5°	19.1	26.5	40.7	61.5	82.2	87.4	115.6	159.6	198.9	214.7	205.0
30°	22.8	34.7	54.6	87.4	134.0	185.3	193.3	242.1	321.5	386.3	483.1
27.5°	28.5	45.1	79.4	135.0	209.6	314.4	340.1	382.5	500.7	663.2	975.2
25°	35.0	71.8	107.8	198.4	336.4	459.3	507.8	587.8	724.7	1250.1	1968.6
22.5°	49.3	107.5	166.0	271.4	484.2	611.2	698.8	833.0	1158.6	1997.6	3396.3
20°	75.0	157.1	239.5	363.5	640.7	771.6	889.2	1093.3	1820.4	3380.4	5653.6
17.5°	105.3	210.6	315.6	474.7	725.1	904.0	1086.0	1360.2	2514.8	4993.1	8013.4
15°	139.1	267.2	387.2	570.8	799.0	991.4	1245.4	1877.4	3617.3	6834.3	10180.9
12.5°	175.3	325.5	454.1	652.9	867.6	1073.4	1376.0	2319.5	4766.4	8507.0	12407.8
10°	212.5	384.5	516.6	722.1	930.4	1149.5	1494.4	2723.4	5576.6	9134.5	13474.5
7.5°	235.6	421.4	567.1	779.7	987.2	1218.7	1599.3	3080.1	6149.9	9451.0	13914.0
5°	253.0	430.8	572.1	796.6	1023.4	1273.9	1681.2	3379.3	6506.2	9495.8	14049.6
2.5°	266.3	434.6	573.1	801.8	1045.3	1311.3	1709.2	3478.3	6669.5	9582.7	14143.4
0°	275.3	433.6	570.2	800.0	1060.1	1339.8	1719.2	3497.0	6673.0	9638.8	14178.6
-2.5°	290.0	449.1	599.2	833.6	1076.9	1345.8	1733.3	3595.4	6996.8	10245.6	15248.5
-5°	300.5	460.7	623.3	859.8	1086.8	1342.8	1730.9	3600.7	7037.5	10386.4	15291.9
-7.5°	307.0	468.5	641.5	875.3	1078.2	1309.1	1671.7	3309.7	6418.2	9749.5	14252.9
-10°	310.8	478.3	654.3	866.2	1046.0	1253.6	1587.8	2949.8	5677.7	8930.1	12997.4
-12.5°	318.0	489.8	662.8	855.7	1016.1	1192.6	1489.0	2531.3	4836.8	7928.6	11542.4
-15°	320.2	497.3	667.1	845.3	991.0	1126.9	1375.8	2062.4	3994.0	7049.3	10102.0
-17.5°	317.4	500.8	667.4	836.9	973.2	1057.6	1260.1	1657.0	3365.6	6195.6	9012.6
-20°	309.4	500.5	663.8	831.8	962.2	1034.9	1222.0	1568.7	2825.6	5195.7	7983.2



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	296.1	496.4	657.3	823.0	961.1	1055.8	1189.7	1457.4	2148.2	4040.9	6916.3
-25°	287.3	477.6	647.3	800.3	954.6	1078.4	1154.9	1338.4	1723.9	3158.9	5478.3
-27.5°	283.2	452.5	617.2	767.8	937.8	1091.3	1161.4	1295.2	1567.9	2190.2	3963.6
-30°	273.5	410.4	581.0	726.8	898.6	1065.4	1187.1	1250.4	1426.7	1789.2	2832.5
-32.5°	254.4	367.2	533.2	682.3	844.3	1027.1	1191.7	1254.2	1368.0	1576.8	1967.8
-35°	232.2	339.7	481.0	630.8	779.1	964.4	1138.5	1271.8	1321.8	1472.8	1745.8
-37.5°	212.8	307.4	427.9	573.2	716.7	887.2	1078.9	1233.8	1336.6	1402.9	1604.6
-40°	190.3	270.4	383.8	514.3	653.7	809.2	986.6	1167.6	1313.4	1438.8	1523.5
-42.5°	165.7	242.0	338.5	455.4	589.9	734.1	887.6	1066.8	1253.5	1432.1	1562.7
-45°	146.4	210.3	290.7	400.5	522.2	655.4	799.2	950.5	1145.6	1347.0	1529.4
-47.5°	125.1	178.3	251.8	340.8	453.5	575.5	706.0	849.1	1009.8	1203.7	1413.1
-50°	104.6	152.5	209.1	288.6	382.8	493.6	612.9	737.9	880.2	1041.4	1225.6
-52.5°	90.6	124.6	175.0	235.8	316.7	410.8	516.3	626.6	748.0	880.5	1031.8
-55°	75.4	104.8	141.4	191.5	252.5	332.9	418.8	516.8	617.5	732.8	849.3
-57.5°	62.2	86.3	114.7	151.5	200.3	255.7	330.4	407.7	497.3	590.5	683.4
-60°	49.6	68.8	92.3	120.3	153.4	199.0	246.5	311.0	382.6	452.8	530.4
-62.5°	37.3	52.9	71.4	93.4	120.3	146.9	184.6	228.8	275.7	333.5	390.4
-65°	29.4	38.3	52.3	70.0	89.1	111.8	135.3	159.2	196.8	234.4	269.9
-67.5°	21.2	29.1	37.3	47.2	63.4	79.5	96.4	117.2	138.2	157.8	180.8
-70°	17.5	20.6	26.9	34.3	41.5	50.1	64.1	78.8	93.7	108.4	124.9
-72.5°	14.6	17.2	20.0	23.0	28.8	34.5	40.1	45.5	54.9	67.0	78.6
-75°	12.7	13.8	16.0	18.5	20.9	23.2	25.8	30.5	35.1	39.8	44.5
-77.5°	11.6	12.3	13.3	14.4	15.8	17.8	19.8	21.7	23.6	25.4	27.1
-80°	10.5	10.8	11.3	12.0	12.9	13.8	14.9	16.1	17.4	18.8	20.3
-82.5°	9.5	9.7	10.0	10.2	10.4	10.6	10.9	11.6	12.3	13.0	13.9
-85°	8.5	8.7	8.9	9.0	9.2	9.3	9.4	9.6	9.7	9.8	9.9
-87.5°	7.5	7.6	7.7	7.8	7.8	7.9	8.0	8.1	8.1	8.2	8.2
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	6.5	6.5	6.5	6.5	6.5	6.0	5.4	4.9	4.3	4.3	4.3
87.5°	4.3	4.3	4.3	4.3	4.3	3.8	3.3	2.7	2.2	2.2	2.2
85°	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.2	4.2	3.7	3.2
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	3.8	3.3
80°	5.0	4.9	4.8	4.6	4.3	4.3	4.3	4.3	4.3	3.8	3.3
77.5°	6.5	6.1	5.5	5.0	4.4	4.3	4.3	4.3	4.3	3.8	3.3
75°	6.7	6.2	6.0	5.7	5.4	5.3	5.1	4.8	4.4	4.2	4.2
72.5°	8.3	8.2	8.1	8.3	8.2	8.0	7.5	7.0	6.2	6.1	6.3
70°	12.5	13.0	13.1	12.9	12.1	11.1	10.3	9.4	8.5	8.3	8.4
67.5°	19.2	19.5	18.8	17.4	15.1	13.2	12.1	10.8	9.4	8.9	9.5
65°	27.2	24.0	21.4	19.2	17.1	15.3	13.9	12.5	11.0	10.7	12.1
62.5°	32.4	25.5	21.6	19.7	18.4	17.1	15.1	13.3	11.7	10.9	11.1
60°	37.0	27.2	20.5	18.8	17.1	15.4	13.4	11.7	10.3	9.4	9.1
57.5°	39.2	27.8	18.8	16.4	14.0	11.7	10.7	10.3	9.5	8.7	9.2
55°	37.7	25.8	16.0	14.2	13.5	13.0	12.6	11.5	10.7	10.0	10.4
52.5°	32.3	23.5	17.1	14.8	14.2	13.6	12.9	12.7	12.5	12.2	12.4
50°	28.8	22.0	17.5	15.0	14.9	15.0	15.0	15.2	15.5	15.6	15.7
47.5°	25.7	20.6	19.6	17.1	17.5	18.9	19.2	19.5	20.6	20.5	20.0
45°	25.6	27.6	27.0	25.4	24.5	34.1	34.8	29.2	34.6	33.9	29.7
42.5°	37.6	40.3	40.9	50.3	67.9	67.0	65.3	73.8	68.0	59.4	53.4
40°	58.3	58.3	69.1	84.9	84.3	81.0	91.7	93.1	92.4	97.3	95.8
37.5°	92.7	93.8	98.8	108.2	124.8	116.9	140.4	155.5	157.9	178.9	195.1
35°	154.2	180.7	157.1	213.4	250.2	242.3	276.5	337.6	280.0	428.7	455.6
32.5°	289.0	348.6	394.3	458.6	541.7	664.5	673.6	1108.2	1195.2	1451.8	1802.6
30°	497.6	670.1	1001.8	1088.3	1222.0	1730.7	2332.1	3084.7	3784.3	4284.1	4941.3
27.5°	1198.1	1483.2	2197.5	2973.4	2928.2	3878.7	6029.9	6691.7	8508.2	9112.5	10645.8
25°	2679.9	3362.6	5091.4	6632.2	7417.3	9921.7	12759.9	14039.8	16432.8	17705.0	19582.2
22.5°	5240.8	7113.6	9406.7	11772.7	14721.0	18555.5	22064.1	24625.2	27847.1	30433.7	31964.7
20°	8482.6	11074.0	14605.3	18280.7	22841.0	27878.5	31540.7	36729.3	41575.2	46176.7	48252.3
17.5°	11569.5	15899.3	20171.6	24607.6	30589.9	37179.3	43147.9	50736.4	58771.5	64950.6	69987.8
15°	14185.1	19003.0	25167.1	30468.8	37315.9	45533.1	54406.3	64108.0	75663.5	84446.1	93904.3
12.5°	16599.6	21430.6	28118.6	34450.5	43670.3	52950.9	63305.8	75360.3	88718.2	101710.2	113897.4
10°	18154.1	23721.9	30888.7	38581.4	48025.7	58802.3	70581.3	84085.7	101203.8	116056.8	129786.9
7.5°	19094.6	25811.5	33232.7	41435.4	51545.7	62635.3	75040.3	90960.2	108946.1	124460.6	136795.3
5°	20019.5	27523.6	34745.7	42811.2	53836.8	65121.5	77221.3	93190.4	111741.4	127270.6	138347.1
2.5°	20947.0	28702.1	35576.8	43358.7	55137.7	66526.6	79337.3	96350.3	114997.0	129259.2	138881.1
0°	21794.7	29122.5	35875.8	43496.2	55704.1	67140.2	80182.8	96982.5	117784.3	131501.1	140816.9
-2.5°	22102.2	29099.7	35552.4	43108.1	55231.3	66300.2	79280.9	97385.7	116798.1	130755.6	140215.0
-5°	21167.2	27517.3	33796.9	41450.0	52719.5	64145.0	77212.8	95165.3	113592.6	128042.1	137062.5
-7.5°	19409.0	25146.6	31323.1	38906.8	49146.3	60187.3	72083.3	87764.3	105905.6	119366.9	126471.3
-10°	17568.8	22490.1	28325.0	35344.0	44367.3	54852.5	64713.2	78056.1	94823.2	106757.4	114028.1
-12.5°	15465.2	19458.7	24844.3	30979.3	39033.6	48174.8	57193.7	68479.4	81284.6	93559.2	101128.6
-15°	13256.8	16470.7	21150.1	27037.1	33397.9	40235.2	48575.4	57717.3	67927.8	77877.1	86500.1
-17.5°	11489.1	13969.2	18263.3	23553.9	28404.2	33950.9	42079.8	49511.6	56984.3	65008.4	72192.0
-20°	10352.3	12680.2	16148.9	20566.2	25377.8	30969.1	37250.8	43750.9	50697.2	56857.9	63189.4



REPORT NUMBER: P731610 (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°	9444.9	11837.6	14513.9	18195.4	23316.7	28453.6	33285.9	38260.3	44023.2	50316.1	55620.1
-25°	8266.1	10775.4	13318.0	16819.6	21131.4	25671.8	29229.5	32771.3	37971.0	43322.7	47707.5
-27.5°	6626.9	9464.0	12432.6	15282.7	18958.3	22187.5	25313.8	28523.6	33057.6	37575.1	40851.2
-30°	4728.8	8005.8	11088.8	14001.0	16524.6	19067.4	21682.1	24967.9	28758.1	32392.9	35177.8
-32.5°	3460.2	5915.6	9249.8	12222.1	14691.7	16820.3	18828.3	21752.1	24717.4	27632.0	30293.8
-35°	2208.0	4002.7	6600.8	9627.4	12526.8	14786.6	16970.0	19088.4	21317.0	23801.1	26104.5
-37.5°	1901.1	2383.7	3979.8	6237.9	9016.6	11969.6	14116.2	16225.2	18500.1	20366.4	22302.9
-40°	1723.0	1975.1	2379.4	3180.3	5278.5	7361.8	9773.6	12029.1	14203.6	16119.3	17888.9
-42.5°	1645.2	1796.1	1959.3	2263.2	2601.7	3600.6	5358.9	7001.3	8936.6	10859.4	12538.9
-45°	1684.6	1736.5	1819.5	1968.9	2107.4	2388.8	2685.2	2994.7	4317.2	5703.9	6892.1
-47.5°	1576.8	1727.8	1808.4	1873.3	1944.5	2067.0	2193.7	2366.1	2664.2	2966.4	3205.8
-50°	1397.8	1558.7	1700.0	1839.5	1906.8	1955.8	2008.0	2109.0	2247.4	2389.7	2494.4
-52.5°	1175.2	1330.9	1486.4	1627.6	1742.7	1853.9	1963.8	2046.5	2118.8	2190.3	2224.8
-55°	976.1	1105.9	1231.3	1358.4	1483.9	1602.9	1724.7	1848.6	1963.7	2070.1	2122.7
-57.5°	788.9	897.8	1005.6	1102.6	1202.5	1304.3	1417.1	1537.5	1656.6	1767.9	1825.4
-60°	611.3	694.9	783.0	862.1	936.4	1006.0	1103.5	1202.3	1296.8	1377.5	1420.3
-62.5°	447.0	511.8	578.8	641.6	701.2	760.3	833.6	905.1	973.7	1029.2	1061.5
-65°	309.8	358.1	403.0	446.5	488.6	539.1	594.7	648.1	698.8	736.8	758.2
-67.5°	211.4	240.1	265.2	288.7	319.0	354.5	393.4	430.0	464.2	489.0	505.4
-70°	141.3	156.9	170.7	186.6	205.7	225.1	246.2	267.0	287.2	301.2	309.8
-72.5°	89.6	99.5	108.9	119.9	130.2	140.5	150.7	160.2	168.9	177.0	184.4
-75°	49.1	54.3	61.8	68.7	75.1	82.1	88.8	94.7	99.9	103.4	106.0
-77.5°	30.1	33.5	36.5	39.2	41.7	44.7	48.1	51.7	55.2	57.5	59.4
-80°	21.8	22.9	24.0	25.1	26.2	27.2	28.0	28.7	29.2	30.1	30.9
-82.5°	14.7	15.4	16.0	16.5	17.0	18.0	19.0	19.9	20.8	21.5	22.3
-85°	10.0	10.0	9.9	10.0	10.0	10.6	11.2	11.9	12.5	12.7	12.8
-87.5°	8.3	7.9	7.5	7.0	6.5	6.5	6.4	6.4	6.4	6.4	6.5
-90°	4.3	4.3	4.3	4.3	4.3	3.8	3.3	2.7	2.2	2.2	2.2



REPORT NUMBER: P731610 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-5S-CV1

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.9
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7
85°	2.7	2.2	2.2	2.2	2.2	2.2	2.7	3.2	3.7	4.2	4.2
82.5°	2.7	2.2	2.2	2.2	2.2	2.2	2.7	3.3	3.8	4.3	4.3
80°	2.7	2.2	2.2	2.2	2.2	2.2	2.7	3.3	3.8	4.3	4.3
77.5°	2.8	2.2	2.2	2.2	2.2	2.2	2.8	3.3	3.8	4.3	4.3
75°	4.2	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.2	4.4	4.8
72.5°	6.4	6.4	6.5	6.5	6.5	6.4	6.4	6.3	6.1	6.2	7.0
70°	8.5	8.6	8.7	8.7	8.7	8.6	8.5	8.4	8.3	8.5	9.4
67.5°	10.0	10.6	10.8	10.8	10.8	10.6	10.0	9.5	8.9	9.4	10.8
65°	13.4	14.8	14.2	13.0	14.2	14.8	13.4	12.1	10.7	11.0	12.5
62.5°	11.1	11.0	10.8	10.8	10.8	11.0	11.1	11.1	10.9	11.7	13.3
60°	8.9	8.8	8.7	8.7	8.7	8.8	8.9	9.1	9.4	10.3	11.7
57.5°	9.8	10.5	10.8	10.8	10.8	10.5	9.8	9.2	8.7	9.5	10.3
55°	10.7	10.8	10.8	10.8	10.8	10.8	10.7	10.4	10.0	10.7	11.5
52.5°	12.7	12.9	13.0	13.0	13.0	12.9	12.7	12.4	12.2	12.5	12.7
50°	15.7	15.3	15.2	15.2	15.2	15.3	15.7	15.7	15.6	15.5	15.2
47.5°	19.8	19.5	19.4	19.5	19.4	19.5	19.8	20.0	20.5	20.6	19.5
45°	29.6	28.7	28.0	28.2	28.0	28.7	29.6	29.7	33.9	34.6	29.2
42.5°	56.7	58.7	61.0	65.0	61.0	58.7	56.7	53.4	59.4	68.0	73.8
40°	96.7	93.9	90.3	91.1	90.3	93.9	96.7	95.8	97.3	92.4	93.1
37.5°	201.1	193.5	179.0	169.1	179.0	193.5	201.1	195.1	178.9	157.9	155.5
35°	413.3	403.5	379.8	372.9	379.8	403.5	413.3	455.6	428.7	280.0	337.6
32.5°	1945.4	2168.5	2238.6	2241.7	2238.6	2168.5	1945.4	1802.6	1451.8	1195.2	1108.2
30°	4992.5	4938.2	4456.6	3960.9	4456.6	4938.2	4992.5	4941.3	4284.1	3784.3	3084.7
27.5°	12015.5	13483.3	14543.6	14200.3	14543.6	13483.3	12015.5	10645.8	9112.5	8508.2	6691.7
25°	21641.0	22679.9	23020.8	22514.5	23020.8	22679.9	21641.0	19582.2	17705.0	16432.8	14039.8
22.5°	33976.0	34599.8	34545.5	33406.4	34545.5	34599.8	33976.0	31964.7	30433.7	27847.1	24625.2
20°	51165.1	51065.6	51576.7	49258.7	51576.7	51065.6	51165.1	48252.3	46176.7	41575.2	36729.3
17.5°	75476.6	79469.6	82509.7	82218.5	82509.7	79469.6	75476.6	69987.8	64950.6	58771.5	50736.4
15°	101302.0	107335.4	111459.2	111727.0	111459.2	107335.4	101302.0	93904.3	84446.1	75663.5	64108.0
12.5°	123751.3	130203.5	133706.0	133173.7	133706.0	130203.5	123751.3	113897.4	101710.2	88718.2	75360.3
10°	138052.1	143018.4	146704.4	147620.1	146704.4	143018.4	138052.1	129786.9	116056.8	101203.8	84085.7
7.5°	143786.5	148434.6	151647.6	151599.4	151647.6	148434.6	143786.5	136795.3	124460.6	108946.1	90960.2
5°	144847.7	149424.1	151242.8	151587.5	151242.8	149424.1	144847.7	138347.1	127270.6	111741.4	93190.4
2.5°	145891.3	149685.5	151662.2	150911.1	151662.2	149685.5	145891.3	138881.1	129259.2	114997.0	96350.3
0°	146299.8	149341.4	150886.1	150408.1	150886.1	149341.4	146299.8	140816.9	131501.1	117784.3	96982.5
-2.5°	146159.9	148160.7	149468.3	149016.2	149468.3	148160.7	146159.9	140215.0	130755.6	116798.1	97385.7
-5°	142419.6	144142.7	144751.9	145085.7	144751.9	144142.7	142419.6	137062.5	128042.1	113592.6	95165.3
-7.5°	130399.9	132664.7	131936.4	133035.0	131936.4	132664.7	130399.9	126471.3	119366.9	105905.6	87764.3
-10°	118509.3	120713.2	119957.0	120665.5	119957.0	120713.2	118509.3	114028.1	106757.4	94823.2	78056.1
-12.5°	107296.6	110068.8	110027.7	111033.2	110027.7	110068.8	107296.6	101128.6	93559.2	81284.6	68479.4
-15°	93816.2	97347.0	99269.8	100503.3	99269.8	97347.0	93816.2	86500.1	77877.1	67927.8	57717.3
-17.5°	79576.4	84116.9	87351.6	87848.8	87351.6	84116.9	79576.4	72192.0	65008.4	56984.3	49511.6
-20°	68628.9	72722.2	75766.7	76748.7	75766.7	72722.2	68628.9	63189.4	56857.9	50697.2	43750.9



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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°	59458.1	62836.0	65037.2	65579.3	65037.2	62836.0	59458.1	55620.1	50316.1	44023.2	38260.3
-25°	50580.4	52469.0	53624.4	54060.8	53624.4	52469.0	50580.4	47707.5	43322.7	37971.0	32771.3
-27.5°	43355.0	44702.1	45279.0	45505.9	45279.0	44702.1	43355.0	40851.2	37575.1	33057.6	28523.6
-30°	37306.7	38341.1	38974.9	39210.1	38974.9	38341.1	37306.7	35177.8	32392.9	28758.1	24967.9
-32.5°	32327.8	33357.4	34025.4	34265.0	34025.4	33357.4	32327.8	30293.8	27632.0	24717.4	21752.1
-35°	27666.0	28517.1	29125.6	29408.7	29125.6	28517.1	27666.0	26104.5	23801.1	21317.0	19088.4
-37.5°	23545.4	24313.3	24820.0	24977.3	24820.0	24313.3	23545.4	22302.9	20366.4	18500.1	16225.2
-40°	18885.8	19578.9	19964.3	19945.4	19964.3	19578.9	18885.8	17888.9	16119.3	14203.6	12029.1
-42.5°	13531.3	14231.2	14725.9	15097.8	14725.9	14231.2	13531.3	12538.9	10859.4	8936.6	7001.3
-45°	7687.4	8262.5	8632.7	8806.3	8632.7	8262.5	7687.4	6892.1	5703.9	4317.2	2994.7
-47.5°	3348.1	3452.5	3505.0	3505.6	3505.0	3452.5	3348.1	3205.8	2966.4	2664.2	2366.1
-50°	2570.4	2636.0	2673.8	2684.0	2673.8	2636.0	2570.4	2494.4	2389.7	2247.4	2109.0
-52.5°	2249.0	2271.7	2281.9	2282.9	2281.9	2271.7	2249.0	2224.8	2190.3	2118.8	2046.5
-55°	2167.2	2205.0	2220.1	2217.8	2220.1	2205.0	2167.2	2122.7	2070.1	1963.7	1848.6
-57.5°	1873.5	1911.2	1933.0	1940.3	1933.0	1911.2	1873.5	1825.4	1767.9	1656.6	1537.5
-60°	1453.5	1477.1	1497.6	1511.1	1497.6	1477.1	1453.5	1420.3	1377.5	1296.8	1202.3
-62.5°	1087.9	1107.7	1126.9	1140.4	1126.9	1107.7	1087.9	1061.5	1029.2	973.7	905.1
-65°	773.8	783.7	799.5	813.0	799.5	783.7	773.8	758.2	736.8	698.8	648.1
-67.5°	518.4	527.8	533.6	535.5	533.6	527.8	518.4	505.4	489.0	464.2	430.0
-70°	315.8	319.3	326.0	331.7	326.0	319.3	315.8	309.8	301.2	287.2	267.0
-72.5°	191.1	196.8	196.8	195.1	196.8	196.8	191.1	184.4	177.0	168.9	160.2
-75°	108.1	109.5	110.3	110.6	110.3	109.5	108.1	106.0	103.4	99.9	94.7
-77.5°	61.0	62.3	61.7	60.7	61.7	62.3	61.0	59.4	57.5	55.2	51.7
-80°	31.7	32.4	32.5	32.5	32.5	32.4	31.7	30.9	30.1	29.2	28.7
-82.5°	23.0	23.7	22.7	21.7	22.7	23.7	23.0	22.3	21.5	20.8	19.9
-85°	12.9	13.0	13.0	13.0	13.0	13.0	12.9	12.8	12.7	12.5	11.9
-87.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.4
-90°	2.2	2.2	1.1	0.0	1.1	2.2	2.2	2.2	2.2	2.2	2.7



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	5.4	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	3.3	3.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
85°	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.5	4.6	4.7	4.6
80°	4.3	4.3	4.3	4.6	4.8	4.9	5.0	5.2	5.6	5.9	6.0
77.5°	4.3	4.3	4.4	5.0	5.5	6.1	6.5	6.4	6.3	6.4	6.4
75°	5.1	5.3	5.4	5.7	6.0	6.2	6.7	7.1	7.3	7.2	6.9
72.5°	7.5	8.0	8.2	8.3	8.1	8.2	8.3	8.5	8.6	8.7	8.2
70°	10.3	11.1	12.1	12.9	13.1	13.0	12.5	11.8	10.7	10.3	9.6
67.5°	12.1	13.2	15.1	17.4	18.8	19.5	19.2	18.0	16.8	15.6	12.3
65°	13.9	15.3	17.1	19.2	21.4	24.0	27.2	27.5	26.2	23.2	16.7
62.5°	15.1	17.1	18.4	19.7	21.6	25.5	32.4	36.2	37.1	32.7	24.6
60°	13.4	15.4	17.1	18.8	20.5	27.2	37.0	44.5	49.5	42.2	31.8
57.5°	10.7	11.7	14.0	16.4	18.8	27.8	39.2	51.3	59.3	48.1	37.6
55°	12.6	13.0	13.5	14.2	16.0	25.8	37.7	50.5	57.5	50.3	38.7
52.5°	12.9	13.6	14.2	14.8	17.1	23.5	32.3	45.1	49.0	43.1	36.2
50°	15.0	15.0	14.9	15.0	17.5	22.0	28.8	38.3	37.8	35.2	29.5
47.5°	19.2	18.9	17.5	17.1	19.6	20.6	25.7	30.0	30.7	28.1	23.8
45°	34.8	34.1	24.5	25.4	27.0	27.6	25.6	28.2	27.8	25.4	20.1
42.5°	65.3	67.0	67.9	50.3	40.9	40.3	37.6	35.3	32.5	27.1	24.3
40°	91.7	81.0	84.3	84.9	69.1	58.3	58.3	49.5	44.2	36.9	34.9
37.5°	140.4	116.9	124.8	108.2	98.8	93.8	92.7	78.6	59.8	65.5	61.5
35°	276.5	242.3	250.2	213.4	157.1	180.7	154.2	125.2	109.4	111.7	100.6
32.5°	673.6	664.5	541.7	458.6	394.3	348.6	289.0	205.0	214.7	198.9	159.6
30°	2332.1	1730.7	1222.0	1088.3	1001.8	670.1	497.6	483.1	386.3	321.5	242.1
27.5°	6029.9	3878.7	2928.2	2973.4	2197.5	1483.2	1198.1	975.2	663.2	500.7	382.5
25°	12759.9	9921.7	7417.3	6632.2	5091.4	3362.6	2679.9	1968.6	1250.1	724.7	587.8
22.5°	22064.1	18555.5	14721.0	11772.7	9406.7	7113.6	5240.8	3396.3	1997.6	1158.6	833.0
20°	31540.7	27878.5	22841.0	18280.7	14605.3	11074.0	8482.6	5653.6	3380.4	1820.4	1093.3
17.5°	43147.9	37179.3	30589.9	24607.6	20171.6	15899.3	11569.5	8013.4	4993.1	2514.8	1360.2
15°	54406.3	45533.1	37315.9	30468.8	25167.1	19003.0	14185.1	10180.9	6834.3	3617.3	1877.4
12.5°	63305.8	52950.9	43670.3	34450.5	28118.6	21430.6	16599.6	12407.8	8507.0	4766.4	2319.5
10°	70581.3	58802.3	48025.7	38581.4	30888.7	23721.9	18154.1	13474.5	9134.5	5576.6	2723.4
7.5°	75040.3	62635.3	51545.7	41435.4	33232.7	25811.5	19094.6	13914.0	9451.0	6149.9	3080.1
5°	77221.3	65121.5	53836.8	42811.2	34745.7	27523.6	20019.5	14049.6	9495.8	6506.2	3379.3
2.5°	79337.3	66526.6	55137.7	43358.7	35576.8	28702.1	20947.0	14143.4	9582.7	6669.5	3478.3
0°	80182.8	67140.2	55704.1	43496.2	35875.8	29122.5	21794.7	14178.6	9638.8	6673.0	3497.0
-2.5°	79280.9	66300.2	55231.3	43108.1	35552.4	29099.7	22102.2	15248.5	10245.6	6996.8	3595.4
-5°	77212.8	64145.0	52719.5	41450.0	33796.9	27517.3	21167.2	15291.9	10386.4	7037.5	3600.7
-7.5°	72083.3	60187.3	49146.3	38906.8	31323.1	25146.6	19409.0	14252.9	9749.5	6418.2	3309.7
-10°	64713.2	54852.5	44367.3	35344.0	28325.0	22490.1	17568.8	12997.4	8930.1	5677.7	2949.8
-12.5°	57193.7	48174.8	39033.6	30979.3	24844.3	19458.7	15465.2	11542.4	7928.6	4836.8	2531.3
-15°	48575.4	40235.2	33397.9	27037.1	21150.1	16470.7	13256.8	10102.0	7049.3	3994.0	2062.4
-17.5°	42079.8	33950.9	28404.2	23553.9	18263.3	13969.2	11489.1	9012.6	6195.6	3365.6	1657.0
-20°	37250.8	30969.1	25377.8	20566.2	16148.9	12680.2	10352.3	7983.2	5195.7	2825.6	1568.7



REPORT NUMBER: P731610 (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°	33285.9	28453.6	23316.7	18195.4	14513.9	11837.6	9444.9	6916.3	4040.9	2148.2	1457.4
-25°	29229.5	25671.8	21131.4	16819.6	13318.0	10775.4	8266.1	5478.3	3158.9	1723.9	1338.4
-27.5°	25313.8	22187.5	18958.3	15282.7	12432.6	9464.0	6626.9	3963.6	2190.2	1567.9	1295.2
-30°	21682.1	19067.4	16524.6	14001.0	11088.8	8005.8	4728.8	2832.5	1789.2	1426.7	1250.4
-32.5°	18828.3	16820.3	14691.7	12222.1	9249.8	5915.6	3460.2	1967.8	1576.8	1368.0	1254.2
-35°	16970.0	14786.6	12526.8	9627.4	6600.8	4002.7	2208.0	1745.8	1472.8	1321.8	1271.8
-37.5°	14116.2	11969.6	9016.6	6237.9	3979.8	2383.7	1901.1	1604.6	1402.9	1336.6	1233.8
-40°	9773.6	7361.8	5278.5	3180.3	2379.4	1975.1	1723.0	1523.5	1438.8	1313.4	1167.6
-42.5°	5358.9	3600.6	2601.7	2263.2	1959.3	1796.1	1645.2	1562.7	1432.1	1253.5	1066.8
-45°	2685.2	2388.8	2107.4	1968.9	1819.5	1736.5	1684.6	1529.4	1347.0	1145.6	950.5
-47.5°	2193.7	2067.0	1944.5	1873.3	1808.4	1727.8	1576.8	1413.1	1203.7	1009.8	849.1
-50°	2008.0	1955.8	1906.8	1839.5	1700.0	1558.7	1397.8	1225.6	1041.4	880.2	737.9
-52.5°	1963.8	1853.9	1742.7	1627.6	1486.4	1330.9	1175.2	1031.8	880.5	748.0	626.6
-55°	1724.7	1602.9	1483.9	1358.4	1231.3	1105.9	976.1	849.3	732.8	617.5	516.8
-57.5°	1417.1	1304.3	1202.5	1102.6	1005.6	897.8	788.9	683.4	590.5	497.3	407.7
-60°	1103.5	1006.0	936.4	862.1	783.0	694.9	611.3	530.4	452.8	382.6	311.0
-62.5°	833.6	760.3	701.2	641.6	578.8	511.8	447.0	390.4	333.5	275.7	228.8
-65°	594.7	539.1	488.6	446.5	403.0	358.1	309.8	269.9	234.4	196.8	159.2
-67.5°	393.4	354.5	319.0	288.7	265.2	240.1	211.4	180.8	157.8	138.2	117.2
-70°	246.2	225.1	205.7	186.6	170.7	156.9	141.3	124.9	108.4	93.7	78.8
-72.5°	150.7	140.5	130.2	119.9	108.9	99.5	89.6	78.6	67.0	54.9	45.5
-75°	88.8	82.1	75.1	68.7	61.8	54.3	49.1	44.5	39.8	35.1	30.5
-77.5°	48.1	44.7	41.7	39.2	36.5	33.5	30.1	27.1	25.4	23.6	21.7
-80°	28.0	27.2	26.2	25.1	24.0	22.9	21.8	20.3	18.8	17.4	16.1
-82.5°	19.0	18.0	17.0	16.5	16.0	15.4	14.7	13.9	13.0	12.3	11.6
-85°	11.2	10.6	10.0	10.0	9.9	10.0	10.0	9.9	9.8	9.7	9.6
-87.5°	6.4	6.5	6.5	7.0	7.5	7.9	8.3	8.2	8.2	8.1	8.1
-90°	3.3	3.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3





REPORT NUMBER: P731610 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.9	5.4	6.0
85°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.9	5.4	6.0
82.5°	4.3	4.3	4.3	4.3	4.7	4.9	4.9	4.9	5.1	5.5	6.0
80°	5.4	4.9	4.5	4.4	4.9	5.5	5.8	5.8	5.7	5.8	6.1
77.5°	6.1	5.5	4.8	4.4	5.0	5.5	6.1	6.5	6.3	6.2	6.3
75°	6.5	6.3	5.8	5.3	5.3	5.6	6.1	6.5	6.5	6.5	6.4
72.5°	7.4	6.9	6.6	6.4	6.1	6.0	6.3	6.5	6.5	6.5	6.5
70°	8.5	7.4	6.6	6.5	6.5	6.5	6.4	6.5	6.5	6.5	6.5
67.5°	9.8	8.6	7.4	6.6	6.5	6.5	6.5	6.5	6.5	6.5	6.5
65°	13.0	10.3	8.6	7.5	6.8	6.5	6.5	6.5	6.5	6.5	6.5
62.5°	17.4	11.9	9.7	8.4	7.2	6.7	6.5	6.5	6.5	6.5	6.5
60°	23.6	16.3	11.5	9.8	8.2	6.8	6.6	6.5	6.5	6.5	6.5
57.5°	27.6	20.3	15.5	11.8	9.8	7.7	6.7	6.7	6.5	6.5	6.5
55°	29.4	22.0	18.4	14.5	11.5	9.4	7.5	7.1	6.6	6.5	6.6
52.5°	27.5	23.1	20.1	16.4	13.0	11.0	9.0	7.5	7.1	6.5	6.7
50°	22.8	23.1	21.3	17.9	14.0	11.9	10.5	8.6	7.6	6.7	6.8
47.5°	20.4	22.5	22.0	19.2	15.3	12.8	11.4	9.7	8.3	7.3	6.9
45°	21.3	21.6	22.4	20.3	17.0	14.2	12.2	10.7	9.1	7.9	7.0
42.5°	24.2	23.7	22.6	21.8	19.1	15.8	12.9	11.4	9.8	8.6	7.4
40°	32.0	28.2	24.4	24.0	21.8	17.4	14.2	12.0	10.4	9.2	8.0
37.5°	42.3	36.4	29.8	29.1	25.4	20.1	15.6	12.6	11.2	9.9	8.5
35°	74.6	48.2	46.4	41.2	32.0	23.2	16.8	13.5	11.9	10.5	9.1
32.5°	115.6	87.4	82.2	61.5	40.7	26.5	19.1	15.2	12.8	11.0	9.6
30°	193.3	185.3	134.0	87.4	54.6	34.7	22.8	17.3	13.7	11.6	10.1
27.5°	340.1	314.4	209.6	135.0	79.4	45.1	28.5	19.7	14.6	12.2	10.5
25°	507.8	459.3	336.4	198.4	107.8	71.8	35.0	22.5	16.2	13.0	11.0
22.5°	698.8	611.2	484.2	271.4	166.0	107.5	49.3	27.6	18.3	13.7	11.4
20°	889.2	771.6	640.7	363.5	239.5	157.1	75.0	33.1	20.5	14.5	11.8
17.5°	1086.0	904.0	725.1	474.7	315.6	210.6	105.3	38.9	22.7	15.2	12.2
15°	1245.4	991.4	799.0	570.8	387.2	267.2	139.1	44.9	25.0	15.9	12.5
12.5°	1376.0	1073.4	867.6	652.9	454.1	325.5	175.3	50.9	27.3	16.6	12.6
10°	1494.4	1149.5	930.4	722.1	516.6	384.5	212.5	56.8	29.9	17.3	12.8
7.5°	1599.3	1218.7	987.2	779.7	567.1	421.4	235.6	62.4	32.4	17.9	12.9
5°	1681.2	1273.9	1023.4	796.6	572.1	430.8	253.0	67.4	34.8	18.5	12.9
2.5°	1709.2	1311.3	1045.3	801.8	573.1	434.6	266.3	72.0	37.1	19.1	13.0
0°	1719.2	1339.8	1060.1	800.0	570.2	433.6	275.3	75.9	39.0	19.5	13.0
-2.5°	1733.3	1345.8	1076.9	833.6	599.2	449.1	290.0	94.7	50.9	26.1	15.4
-5°	1730.9	1342.8	1086.8	859.8	623.3	460.7	300.5	112.3	62.2	32.5	17.6
-7.5°	1671.7	1309.1	1078.2	875.3	641.5	468.5	307.0	128.4	72.6	38.3	19.7
-10°	1587.8	1253.6	1046.0	866.2	654.3	478.3	310.8	142.6	81.8	43.4	21.5
-12.5°	1489.0	1192.6	1016.1	855.7	662.8	489.8	318.0	156.3	89.9	47.6	23.0
-15°	1375.8	1126.9	991.0	845.3	667.1	497.3	320.2	167.9	97.6	51.5	24.2
-17.5°	1260.1	1057.6	973.2	836.9	667.4	500.8	317.4	176.4	103.5	55.3	26.0
-20°	1222.0	1034.9	962.2	831.8	663.8	500.5	309.4	181.4	107.4	57.9	28.1



REPORT NUMBER: P731610 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	1189.7	1055.8	961.1	823.0	657.3	496.4	296.1	182.5	109.1	59.2	29.6
-25°	1154.9	1078.4	954.6	800.3	647.3	477.6	287.3	179.7	108.5	59.1	30.4
-27.5°	1161.4	1091.3	937.8	767.8	617.2	452.5	283.2	178.5	106.5	57.5	30.5
-30°	1187.1	1065.4	898.6	726.8	581.0	410.4	273.5	174.2	104.5	56.5	29.8
-32.5°	1191.7	1027.1	844.3	682.3	533.2	367.2	254.4	166.6	100.4	55.6	29.6
-35°	1138.5	964.4	779.1	630.8	481.0	339.7	232.2	155.5	94.2	53.6	29.1
-37.5°	1078.9	887.2	716.7	573.2	427.9	307.4	212.8	141.3	85.8	50.4	28.0
-40°	986.6	809.2	653.7	514.3	383.8	270.4	190.3	127.3	79.5	46.0	26.2
-42.5°	887.6	734.1	589.9	455.4	338.5	242.0	165.7	111.7	72.1	42.4	23.7
-45°	799.2	655.4	522.2	400.5	290.7	210.3	146.4	95.5	63.7	38.8	21.4
-47.5°	706.0	575.5	453.5	340.8	251.8	178.3	125.1	85.0	54.4	34.3	19.7
-50°	612.9	493.6	382.8	288.6	209.1	152.5	104.6	73.4	48.0	28.7	17.6
-52.5°	516.3	410.8	316.7	235.8	175.0	124.6	90.6	61.4	40.8	24.8	15.2
-55°	418.8	332.9	252.5	191.5	141.4	104.8	75.4	52.2	32.9	21.4	12.7
-57.5°	330.4	255.7	200.3	151.5	114.7	86.3	62.2	42.1	27.5	17.7	12.3
-60°	246.5	199.0	153.4	120.3	92.3	68.8	49.6	33.0	22.7	14.4	11.9
-62.5°	184.6	146.9	120.3	93.4	71.4	52.9	37.3	26.8	17.5	13.6	11.4
-65°	135.3	111.8	89.1	70.0	52.3	38.3	29.4	20.2	15.4	12.7	10.8
-67.5°	96.4	79.5	63.4	47.2	37.3	29.1	21.2	16.8	13.9	11.6	10.3
-70°	64.1	50.1	41.5	34.3	26.9	20.6	17.5	14.6	12.2	11.0	9.8
-72.5°	40.1	34.5	28.8	23.0	20.0	17.2	14.6	12.6	11.5	10.3	9.2
-75°	25.8	23.2	20.9	18.5	16.0	13.8	12.7	11.8	10.7	9.7	9.0
-77.5°	19.8	17.8	15.8	14.4	13.3	12.3	11.6	10.9	10.0	9.4	8.9
-80°	14.9	13.8	12.9	12.0	11.3	10.8	10.5	10.1	9.5	9.1	8.8
-82.5°	10.9	10.6	10.4	10.2	10.0	9.7	9.5	9.2	8.9	8.7	8.5
-85°	9.4	9.3	9.2	9.0	8.9	8.7	8.5	8.4	8.2	8.0	7.8
-87.5°	8.0	7.9	7.8	7.8	7.7	7.6	7.5	7.4	7.3	7.3	7.2
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.9	5.4	6.0



REPORT NUMBER: P731610 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.5	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5
85°	6.5	6.5	6.5	6.5	6.5	6.5	6.5
82.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5
80°	6.5	6.5	6.5	6.5	6.5	6.5	6.5
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5
75°	6.5	6.5	6.5	6.5	6.5	6.5	6.5
72.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5
70°	6.5	6.5	6.5	6.5	6.5	6.5	6.5
67.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5
65°	6.5	6.5	6.5	6.5	6.5	6.5	6.5
62.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5
60°	6.5	6.5	6.5	6.5	6.5	6.5	6.5
57.5°	6.6	6.5	6.5	6.5	6.5	6.5	6.5
55°	6.7	6.5	6.5	6.5	6.5	6.5	6.5
52.5°	6.9	6.5	6.5	6.5	6.5	6.5	6.5
50°	7.1	6.7	6.5	6.5	6.5	6.5	6.5
47.5°	7.3	7.0	6.5	6.5	6.5	6.5	6.5
45°	7.4	7.2	6.5	6.5	6.5	6.5	6.5
42.5°	7.5	7.5	6.5	6.5	6.5	6.5	6.5
40°	7.7	7.7	6.6	6.5	6.5	6.5	6.5
37.5°	7.8	8.0	6.8	6.6	6.5	6.5	6.5
35°	7.9	8.2	7.1	6.6	6.5	6.5	6.5
32.5°	8.1	8.3	7.3	6.7	6.5	6.5	6.5
30°	8.5	8.4	7.5	6.8	6.5	6.5	6.5
27.5°	8.9	8.5	7.8	6.9	6.5	6.5	6.5
25°	9.3	8.6	8.0	7.1	6.5	6.5	6.5
22.5°	9.6	8.7	8.2	7.2	6.5	6.5	6.5
20°	10.0	8.7	8.3	7.4	6.5	6.5	6.5
17.5°	10.2	8.7	8.5	7.5	6.5	6.5	6.5
15°	10.4	8.7	8.5	7.7	6.5	6.5	6.5
12.5°	10.5	8.7	8.6	7.9	6.5	6.5	6.5
10°	10.6	8.7	8.7	8.0	6.5	6.5	6.5
7.5°	10.7	8.7	8.7	8.2	6.5	6.5	6.5
5°	10.8	8.7	8.7	8.4	6.5	6.5	6.5
2.5°	10.8	8.7	8.7	8.5	6.5	6.5	6.5
0°	10.8	8.7	8.7	8.7	6.5	6.5	6.5
-2.5°	11.4	8.9	8.7	8.7	6.6	6.5	6.5
-5°	11.9	9.2	8.7	8.7	6.7	6.5	6.5
-7.5°	12.4	9.4	8.7	8.7	6.8	6.5	6.5
-10°	12.8	9.6	8.7	8.6	6.9	6.5	6.5
-12.5°	13.2	9.7	8.7	8.6	7.0	6.5	6.5
-15°	13.5	9.8	8.7	8.6	7.0	6.5	6.5
-17.5°	13.7	9.9	8.7	8.5	7.1	6.5	6.5
-20°	14.2	10.0	8.7	8.5	7.2	6.5	6.5



REPORT NUMBER: P731610 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-5S-CV1

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	15.3	10.0	8.7	8.5	7.2	6.5	6.5
-25°	16.1	10.2	8.7	8.5	7.3	6.5	6.5
-27.5°	16.5	10.4	8.7	8.5	7.3	6.5	6.5
-30°	16.5	10.4	8.7	8.5	7.3	6.5	6.5
-32.5°	16.1	10.3	8.8	8.5	7.3	6.5	6.5
-35°	15.8	10.1	8.9	8.5	7.3	6.5	6.5
-37.5°	15.5	9.8	9.0	8.6	7.3	6.5	6.5
-40°	14.9	9.9	9.0	8.6	7.3	6.5	6.5
-42.5°	14.1	10.0	9.1	8.7	7.2	6.5	6.5
-45°	13.0	10.0	9.1	8.7	7.1	6.5	6.5
-47.5°	11.6	9.9	9.1	8.7	7.1	6.5	6.5
-50°	11.3	9.9	9.0	8.5	7.0	6.5	6.5
-52.5°	11.1	9.8	9.0	8.3	6.9	6.5	6.5
-55°	10.9	9.6	8.9	8.2	6.8	6.5	6.5
-57.5°	10.7	9.5	8.8	8.0	6.6	6.5	6.5
-60°	10.3	9.3	8.7	7.8	6.5	6.5	6.5
-62.5°	10.0	9.1	8.5	7.6	6.5	6.5	6.5
-65°	9.6	8.8	8.3	7.4	6.5	6.5	6.5
-67.5°	9.2	8.6	8.1	7.2	6.5	6.5	6.5
-70°	8.8	8.5	7.9	7.0	6.5	6.5	6.5
-72.5°	8.7	8.4	7.7	6.9	6.5	6.5	6.5
-75°	8.7	8.2	7.6	6.9	6.5	6.5	6.5
-77.5°	8.6	8.1	7.4	6.8	6.5	6.5	6.5
-80°	8.7	7.9	7.2	6.8	6.5	6.5	6.5
-82.5°	8.2	7.6	7.1	6.7	6.5	6.5	6.5
-85°	7.6	7.2	6.9	6.6	6.5	6.5	6.5
-87.5°	7.1	6.9	6.7	6.6	6.5	6.5	6.5
-90°	6.5	6.5	6.5	6.5	6.5	6.5	6.5

(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

