

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: P731411 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-3S-CV2**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731411 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-57-70-3S-CV2  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 3S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

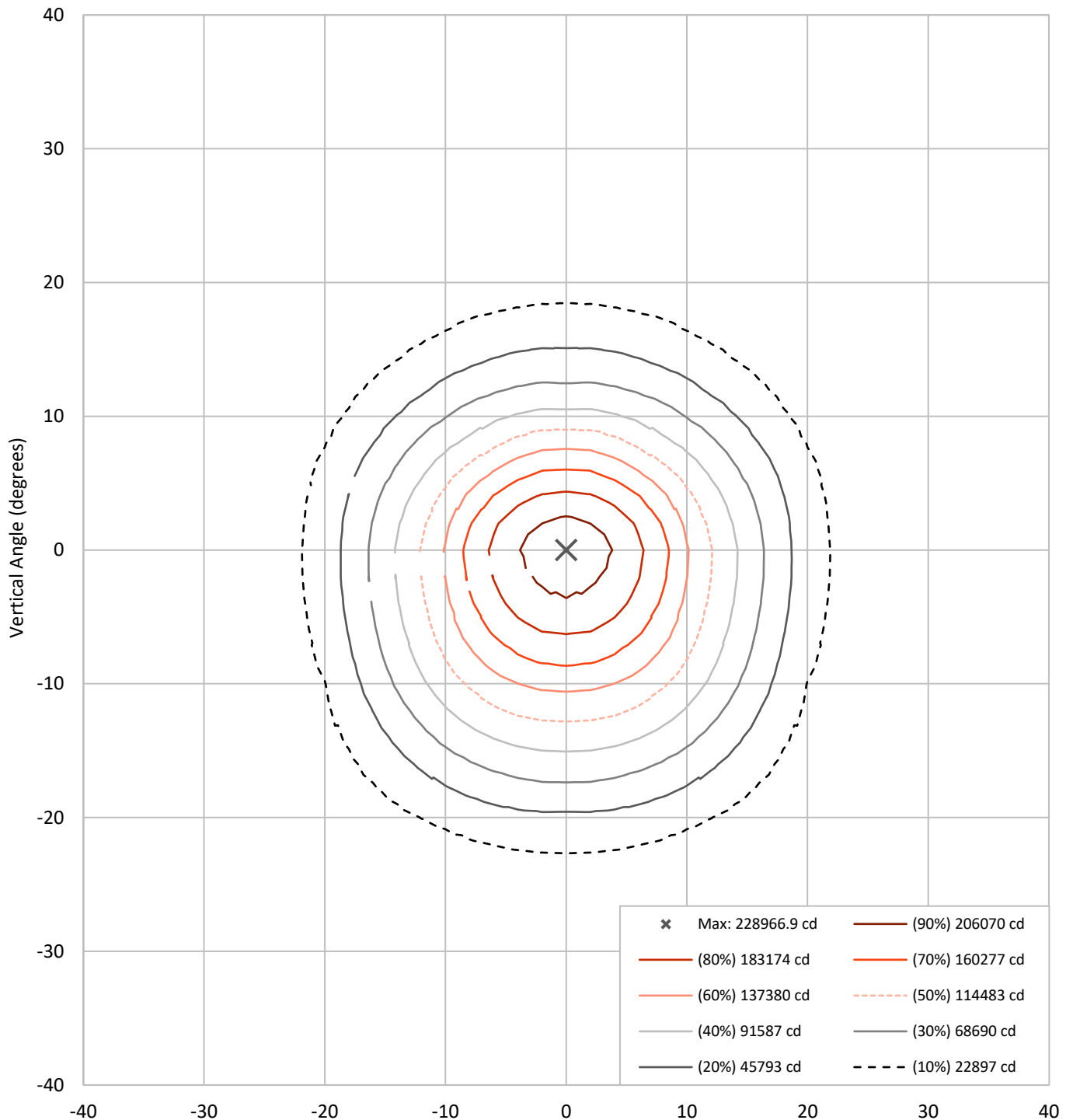
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	45195.3 lumens	Max Intensity:	228966.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	130.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24.2°H x 21.8°V	Field Angle (10%):	43.8°H x 40.9°V
Beam Lumens:	20478.6 lumens	Field Lumens:	38754.1 lumens
Beam Efficiency:	45.3%	Field Efficiency:	85.7%

Input Watts (W): 345.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-CV2

### Iso-Candela Plot





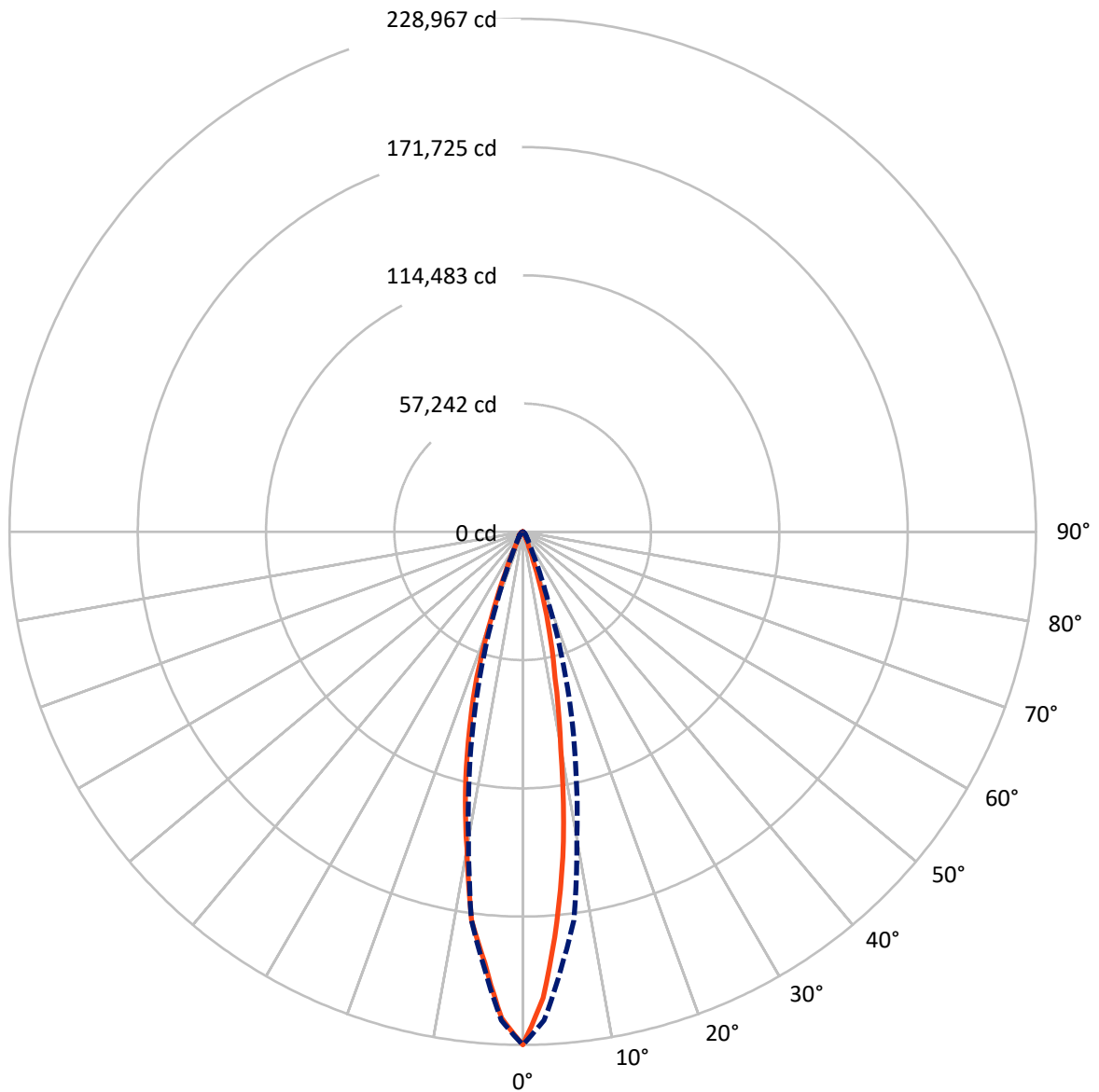
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### Lumen Table

90	0.1		0.3		0.4		0.4		0.3		0.4		0.4		0.3		0.1		
80	0.1		0.3		0.4		0.4		0.3		0.4		0.4		0.3		0.1		
70	0.1	0.1	0.1	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.1	0.1	0.1			
60		0.1	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.1				
50	0.2	0.1	0.3	0.3	0.4	0.6	0.7	0.8	0.8	0.7	0.6	0.4	0.3	0.3	0.1	0.2			
40		0.1	0.6	1.2	2.4	3.8	4.8	5.9	5.9	4.8	3.8	2.4	1.2	0.6	0.1				
30	0.2	0.3	1.9	6.0	15.7	27.1	62.1	129.8	129.8	62.1	27.1	15.7	6.0	1.9	0.3	0.2			
20		0.6	4.4	16.0	39.6	108.5	570.3	1339.1	1339.1	570.3	108.5	39.6	16.0	4.4	0.6				
10	0.2	1.2	7.8	30.0	72.5	326.7	1968.6	4503.5	4503.5	1968.6	326.7	72.5	30.0	7.8	1.2	0.2			
0		2.0	10.4	36.3	83.1	352.5	2271.9	5119.5	5119.5	2271.9	352.5	83.1	36.3	10.4	2.0				
-10	0.4	2.3	10.6	34.5	76.4	205.5	1161.7	2543.4	2543.4	1161.7	205.5	76.4	34.5	10.6	2.3	0.4			
-20		2.2	8.8	22.5	52.6	92.7	213.0	434.0	434.0	213.0	92.7	52.6	22.5	8.8	2.2				
-30	0.3	1.9	6.4	13.8	30.5	54.5	75.4	91.3	91.3	75.4	54.5	30.5	13.8	6.4	1.9	0.3			
-40		1.3	4.5	9.7	17.5	30.1	48.9	63.6	63.6	48.9	30.1	17.5	9.7	4.5	1.3				
-50	0.2	0.6	2.7	6.4	11.4	17.2	22.4	25.8	25.8	22.4	17.2	11.4	6.4	2.7	0.6	0.2			
-60		0.2	1.0	3.2	6.4	10.3	14.2	16.6	16.6	14.2	10.3	6.4	3.2	1.0	0.2				
-70	0.1	0.6		2.2		6.2		8.9		6.2		2.2		0.6		0.1			
-80		0.6		2.2		6.2		8.9		6.2		2.2		0.6					
-90	0.1		0.6		2.2		6.2		8.9		6.2		2.2		0.6		0.1		

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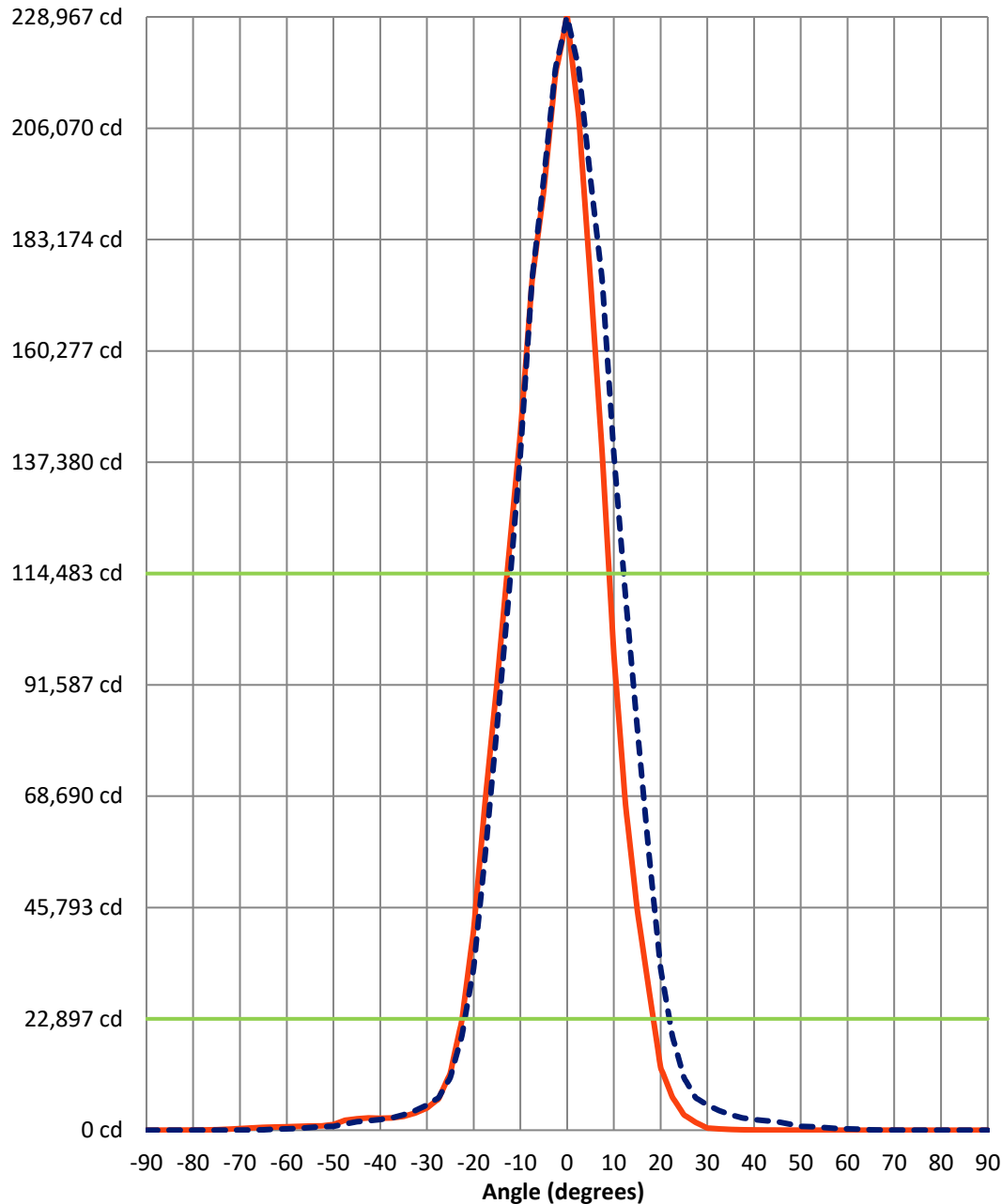
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 24.2°  
 V Angle: 21.8°  
 Lumens: 20478.6  
 Efficiency: 45.3%

**Field:**  
 H Angle: 43.8°  
 V Angle: 40.9°  
 Lumens: 38754.1  
 Efficiency: 85.7%

**Spill:**  
 Lumens: 6441.2  
 Efficiency: 14.3%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.2	6.5	6.8	7.1
87.5°	5.9	5.9	6.0	6.0	6.0	6.0	5.9	5.9	5.9	5.9	5.9
85°	5.9	6.0	6.1	6.1	6.1	6.0	5.9	5.9	5.9	5.9	5.9
82.5°	5.9	6.0	6.2	6.3	6.2	6.1	5.9	5.9	5.9	5.9	5.9
80°	5.9	6.0	6.3	6.4	6.3	6.2	6.0	6.1	6.1	6.1	5.9
77.5°	5.9	6.0	6.4	6.5	6.4	6.3	6.3	6.4	6.4	6.2	6.0
75°	5.9	6.0	6.5	6.6	6.6	6.5	6.6	6.7	6.6	6.3	6.0
72.5°	5.9	6.1	6.6	6.7	6.7	6.7	6.9	6.9	6.6	6.3	6.0
70°	5.9	6.1	6.7	6.9	6.8	6.9	7.1	6.9	6.6	6.3	6.1
67.5°	5.9	6.1	6.7	6.9	6.9	7.0	7.1	7.0	6.7	6.4	6.1
65°	5.9	6.1	6.8	6.9	6.9	7.1	7.1	7.0	6.7	6.4	6.3
62.5°	5.9	6.1	6.9	7.0	7.0	7.1	7.1	7.0	6.8	6.5	6.7
60°	5.9	6.2	6.9	7.0	7.1	7.1	7.1	7.1	6.8	6.8	7.0
57.5°	5.9	6.2	6.9	7.0	7.1	7.1	7.1	7.1	6.9	7.0	7.1
55°	5.9	6.2	6.9	7.1	7.1	7.1	7.1	7.1	7.0	7.1	7.1
52.5°	5.9	6.2	6.9	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
50°	5.9	6.2	6.9	7.1	7.1	7.1	7.1	7.2	7.1	7.1	7.6
47.5°	5.9	6.2	6.9	7.1	7.1	7.1	7.1	7.3	7.1	7.1	8.1
45°	5.9	6.2	6.9	7.1	7.1	7.1	7.2	7.4	7.2	7.5	8.6
42.5°	5.9	6.2	6.9	7.1	7.1	7.1	7.3	7.5	7.2	7.8	9.0
40°	5.9	6.2	6.9	7.1	7.1	7.1	7.5	7.5	7.4	8.1	9.3
37.5°	5.9	6.2	6.9	7.1	7.1	7.1	7.6	7.6	7.8	8.5	9.5
35°	5.9	6.2	6.9	7.1	7.1	7.2	7.8	7.7	8.1	8.9	9.5
32.5°	5.9	6.2	6.9	7.1	7.1	7.3	7.9	7.7	8.4	9.5	10.4
30°	5.9	6.2	6.9	7.1	7.1	7.4	8.0	7.9	8.7	10.1	11.4
27.5°	5.9	6.1	7.0	7.1	7.1	7.6	8.1	8.1	9.1	10.8	12.7
25°	5.9	6.1	7.0	7.1	7.1	7.7	8.1	8.4	9.6	11.7	14.3
22.5°	5.9	6.1	7.0	7.1	7.1	7.8	8.2	8.6	10.1	12.9	17.5
20°	5.9	6.1	7.0	7.1	7.1	7.9	8.3	8.8	10.7	14.1	20.5
17.5°	5.9	6.1	7.0	7.1	7.1	8.0	8.4	9.0	11.3	15.5	23.4
15°	5.9	6.1	7.0	7.1	7.1	8.1	8.5	9.2	11.9	16.9	26.2
12.5°	5.9	6.0	7.1	7.1	7.1	8.2	8.6	9.5	12.9	18.3	28.9
10°	5.9	6.0	7.1	7.1	7.1	8.2	8.8	9.7	14.3	21.1	33.5
7.5°	5.9	6.0	7.1	7.1	7.1	8.2	8.9	10.0	15.7	24.2	42.9
5°	5.9	6.0	7.1	7.1	7.1	8.3	9.1	10.2	17.2	27.2	52.7
2.5°	5.9	5.9	7.1	7.1	7.1	8.3	9.2	10.4	18.7	30.2	62.5
0°	5.9	5.9	7.1	7.1	7.1	8.3	9.4	10.6	20.0	33.0	71.9
-2.5°	5.9	5.9	7.1	7.1	7.1	8.3	10.3	14.1	26.6	43.8	87.4
-5°	5.9	5.9	7.1	7.1	7.1	8.3	11.2	17.5	32.8	54.2	101.9
-7.5°	5.9	5.9	7.1	7.1	7.1	8.2	12.0	20.6	38.7	64.0	115.0
-10°	5.9	5.9	7.1	7.1	7.1	8.2	12.7	23.5	44.0	72.9	126.6
-12.5°	5.9	5.9	7.0	7.1	7.1	8.2	13.3	25.8	48.6	80.6	134.7
-15°	5.9	5.9	7.0	7.1	7.1	8.1	13.6	27.7	52.7	86.8	140.4
-17.5°	5.9	5.9	7.0	7.1	7.1	8.0	13.8	29.4	56.4	92.1	144.4
-20°	5.9	5.9	7.0	7.1	7.1	7.9	14.0	30.9	59.1	96.2	146.7



REPORT NUMBER: P731411 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-CV2

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.9	5.9	6.9	7.1	7.1	7.8	14.4	31.7	60.7	99.2	147.3
-25°	5.9	5.9	6.9	7.1	7.1	8.0	14.4	31.7	61.2	101.0	146.0
-27.5°	5.9	5.9	6.8	7.1	7.1	8.1	14.0	30.9	60.4	101.6	147.4
-30°	5.9	5.9	6.8	7.1	7.1	8.2	13.2	29.2	59.2	100.5	147.3
-32.5°	5.9	5.9	6.7	7.1	7.2	8.2	11.9	28.0	57.1	97.8	145.6
-35°	5.9	5.9	6.7	7.1	7.3	8.1	11.5	26.4	53.9	93.3	142.2
-37.5°	5.9	5.9	6.6	7.1	7.4	8.0	11.3	24.2	49.3	87.0	131.7
-40°	5.9	5.9	6.5	7.1	7.4	8.1	11.1	21.3	43.4	80.3	119.6
-42.5°	5.9	5.9	6.5	7.1	7.5	8.2	10.7	17.7	38.4	70.7	106.7
-45°	5.9	5.9	6.4	7.1	7.5	8.2	10.1	14.9	33.4	60.0	93.3
-47.5°	5.9	5.9	6.3	7.2	7.6	8.3	9.4	14.0	27.5	48.6	80.4
-50°	5.9	5.9	6.2	7.1	7.6	8.3	9.3	13.0	20.4	40.5	66.5
-52.5°	5.9	5.9	6.2	7.0	7.6	8.3	9.2	11.7	17.0	31.8	52.3
-55°	5.9	5.9	6.1	6.9	7.6	8.2	9.2	10.4	15.2	22.6	41.7
-57.5°	5.9	5.9	6.0	6.8	7.6	8.2	9.1	10.2	13.2	18.5	30.5
-60°	5.9	5.9	5.9	6.7	7.5	8.1	8.9	10.0	11.4	15.9	21.5
-62.5°	5.9	5.9	5.9	6.6	7.4	8.0	8.8	9.7	10.9	13.0	18.1
-65°	5.9	5.9	5.9	6.4	7.2	7.9	8.6	9.4	10.4	11.9	14.5
-67.5°	5.9	5.9	5.9	6.3	7.0	7.8	8.4	9.1	9.8	11.1	12.6
-70°	5.9	5.9	5.9	6.2	6.9	7.5	8.2	8.8	9.4	10.2	11.5
-72.5°	5.9	5.9	5.9	6.1	6.7	7.3	8.0	8.4	8.9	9.5	10.3
-75°	5.9	5.9	5.9	6.1	6.5	7.1	7.7	8.0	8.4	8.8	9.4
-77.5°	5.9	5.9	5.9	6.1	6.4	6.9	7.4	7.7	7.9	8.2	8.5
-80°	5.9	5.9	5.9	6.0	6.3	6.7	7.1	7.3	7.5	7.7	7.9
-82.5°	5.9	5.9	5.9	6.0	6.2	6.5	6.8	7.0	7.1	7.3	7.4
-85°	5.9	5.9	5.9	6.0	6.1	6.3	6.5	6.7	6.9	7.0	7.1
-87.5°	5.9	5.9	5.9	5.9	6.0	6.1	6.2	6.5	6.7	6.9	7.1
-90°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9





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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-CV2

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	6.8	6.5	6.2	5.9	5.9	5.9	5.9	5.9	5.6	5.3	5.0
87.5°	5.6	5.3	5.0	4.7	4.7	4.7	4.7	4.7	4.4	4.1	3.8
85°	5.6	5.3	5.1	4.9	4.9	4.9	4.8	4.7	4.4	4.1	3.8
82.5°	5.7	5.6	5.6	5.6	5.5	5.3	5.0	4.7	4.4	4.1	3.8
80°	5.9	5.9	5.9	5.9	5.7	5.4	5.1	4.8	4.5	4.2	3.9
77.5°	5.9	5.9	5.9	5.9	5.7	5.4	5.1	4.8	4.5	4.2	3.9
75°	5.9	5.9	5.9	5.9	5.7	5.4	5.1	5.1	5.0	4.9	4.8
72.5°	5.9	5.9	5.9	5.9	5.8	5.7	5.7	5.8	6.0	6.1	6.0
70°	5.9	5.9	6.0	6.0	5.9	6.0	6.5	7.2	7.8	8.3	9.8
67.5°	6.0	6.2	6.3	6.2	6.4	7.0	7.7	10.9	14.7	16.4	17.4
65°	6.5	6.7	6.6	6.8	7.1	9.3	12.7	17.3	22.2	23.4	23.3
62.5°	7.0	6.9	7.0	7.7	9.5	12.6	17.4	22.6	28.2	27.1	23.4
60°	7.1	7.1	7.9	9.6	12.0	16.3	21.7	24.3	26.1	26.0	21.4
57.5°	7.1	7.7	9.3	11.7	15.4	18.9	20.1	21.6	22.8	23.5	18.5
55°	7.4	8.7	10.8	14.2	16.9	16.5	17.1	18.1	19.0	17.9	13.3
52.5°	8.2	9.7	12.5	15.5	16.0	14.8	13.9	14.6	14.0	12.2	10.1
50°	8.9	10.9	13.8	15.7	15.3	13.3	11.5	11.8	11.2	9.8	8.6
47.5°	9.7	12.0	14.8	16.0	14.4	13.0	11.5	11.1	10.5	10.9	10.3
45°	10.4	12.8	15.8	15.5	14.5	14.0	13.3	11.7	13.5	14.1	14.0
42.5°	10.9	13.4	15.8	15.2	16.1	16.5	16.2	16.9	18.0	19.6	20.3
40°	11.2	13.8	16.3	18.1	18.6	20.2	22.4	24.1	24.7	27.1	28.7
37.5°	11.4	15.1	18.7	23.3	22.7	26.0	29.7	36.1	38.0	35.7	40.1
35°	11.4	17.0	25.2	31.5	32.3	33.8	43.3	53.0	58.9	53.0	58.5
32.5°	12.6	19.7	33.4	42.3	48.6	50.1	59.6	79.4	89.6	91.1	91.7
30°	15.6	27.3	43.6	55.1	69.5	81.0	90.1	112.9	129.3	169.9	202.6
27.5°	19.3	36.5	55.8	74.4	95.9	117.3	138.9	156.9	209.8	286.0	370.9
25°	23.1	49.8	69.3	98.1	130.8	162.1	191.1	215.7	318.9	475.0	579.4
22.5°	30.4	65.6	88.9	124.5	169.2	210.4	246.3	311.4	455.7	686.7	798.9
20°	42.2	82.2	112.9	156.2	212.3	260.4	302.4	411.3	621.8	838.4	977.7
17.5°	55.1	99.7	139.0	196.2	267.9	321.1	364.3	508.4	782.9	989.9	1131.8
15°	68.8	117.6	164.7	239.7	328.9	394.8	482.3	659.5	925.2	1138.6	1312.6
12.5°	82.8	135.8	190.0	285.6	393.6	469.3	626.3	883.3	1120.4	1306.4	1566.9
10°	96.8	153.8	214.3	332.5	460.7	543.8	784.6	1104.5	1333.6	1525.0	1824.5
7.5°	124.2	179.2	240.6	379.3	528.2	617.5	950.7	1319.8	1533.3	1728.0	2043.7
5°	153.6	212.0	281.4	437.5	595.2	684.1	1105.0	1525.0	1720.5	1916.6	2229.6
2.5°	182.2	243.4	320.9	494.0	658.1	738.2	1197.3	1639.0	1842.0	2063.1	2387.8
0°	208.7	273.5	358.4	545.8	715.6	788.7	1272.0	1735.3	1943.9	2185.6	2526.3
-2.5°	230.1	302.9	393.6	575.2	735.6	817.4	1287.3	1770.7	1996.6	2255.5	2592.8
-5°	247.9	330.2	426.0	599.6	751.0	842.7	1284.2	1783.3	2040.8	2308.4	2653.4
-7.5°	261.9	355.0	455.4	617.2	759.1	854.8	1280.4	1800.1	2089.2	2344.5	2702.4
-10°	269.6	365.2	461.6	614.7	757.1	857.4	1252.4	1790.0	2128.8	2370.7	2717.8
-12.5°	261.5	361.9	460.0	607.0	751.8	856.9	1191.6	1751.1	2160.3	2388.6	2688.7
-15°	252.1	356.6	453.7	593.8	743.6	853.3	1094.6	1682.3	2144.5	2323.2	2603.5
-17.5°	241.7	349.2	442.3	575.3	732.8	846.6	952.5	1507.6	1982.5	2211.6	2511.3
-20°	231.0	339.7	425.5	551.4	717.5	814.0	885.6	1286.8	1750.8	2073.8	2350.1



REPORT NUMBER: P731411 (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°	220.5	328.2	407.5	529.3	662.0	760.3	836.2	1061.5	1511.0	1903.3	2109.4
-25°	214.8	311.5	392.4	488.6	603.0	705.0	779.0	859.1	1260.3	1637.3	1896.7
-27.5°	212.2	296.3	370.2	448.1	547.0	646.5	717.1	792.7	1013.2	1369.4	1680.4
-30°	207.3	275.6	346.9	411.6	499.4	585.6	654.8	732.8	821.5	1109.2	1396.5
-32.5°	195.7	254.6	322.6	384.8	454.9	530.3	607.0	683.3	759.2	863.9	1127.2
-35°	182.1	237.1	298.3	357.3	413.1	485.4	562.1	637.1	701.6	768.5	914.2
-37.5°	171.1	218.1	274.3	330.1	382.8	444.7	515.2	588.1	654.0	714.4	797.5
-40°	159.0	197.8	251.6	304.4	353.9	407.2	470.1	535.8	603.8	674.4	739.3
-42.5°	145.8	183.2	228.0	279.0	325.5	374.5	424.9	485.7	552.4	627.0	694.4
-45°	130.7	167.6	204.4	251.3	296.0	341.0	388.2	436.4	501.9	568.9	639.4
-47.5°	114.7	150.8	186.1	223.6	266.2	307.3	350.5	399.7	451.2	512.3	574.6
-50°	98.3	132.4	166.8	200.7	237.1	274.4	312.5	362.2	411.1	459.1	512.5
-52.5°	81.8	113.2	146.0	178.7	211.0	244.5	281.0	324.8	371.0	415.9	460.3
-55°	64.3	93.6	124.3	155.3	186.1	216.6	252.0	290.9	330.9	373.6	414.9
-57.5°	49.5	72.9	101.3	130.8	159.9	189.7	224.4	257.8	294.2	332.0	369.0
-60°	36.1	54.1	76.8	104.1	132.6	161.7	196.0	229.2	260.3	290.5	325.3
-62.5°	23.8	37.9	54.9	75.5	101.4	130.6	161.3	194.1	229.3	256.9	284.1
-65°	19.5	24.2	35.8	51.8	68.9	93.8	121.8	152.1	182.6	210.1	239.1
-67.5°	15.1	19.5	23.5	29.6	44.3	60.8	78.5	103.5	130.0	153.1	176.4
-70°	13.2	15.1	18.6	22.2	25.6	32.4	46.9	62.3	77.6	92.3	111.4
-72.5°	11.6	13.3	15.2	17.1	20.1	23.3	26.6	30.1	38.8	50.2	60.8
-75°	10.4	11.5	13.0	14.7	16.2	17.7	19.5	22.3	25.1	27.7	30.3
-77.5°	9.3	10.2	11.2	12.3	13.3	14.5	15.8	17.1	18.4	19.8	21.3
-80°	8.3	8.8	9.5	10.4	10.9	11.5	12.2	13.0	13.8	14.5	15.4
-82.5°	7.7	8.0	8.3	8.7	8.8	8.7	8.7	9.0	9.5	10.0	10.5
-85°	7.1	7.1	7.2	7.4	7.5	7.6	7.6	7.6	7.5	7.5	7.4
-87.5°	6.9	6.8	6.7	6.6	6.6	6.7	6.7	6.7	6.5	6.2	6.0
-90°	5.6	5.3	5.0	4.7	4.7	4.7	4.7	4.7	4.4	4.1	3.8



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	4.7	4.7	4.7	4.7	4.7	5.0	5.3	5.6	5.9	6.8	7.7
87.5°	3.5	3.2	3.0	2.7	2.4	2.1	1.8	1.5	1.2	1.2	1.2
85°	3.5	3.2	3.0	2.7	2.4	2.1	1.8	1.5	1.2	1.2	1.2
82.5°	3.5	3.4	3.3	3.2	3.2	3.0	2.8	2.5	2.3	2.0	1.8
80°	3.5	3.5	3.5	3.5	3.5	3.3	3.0	2.7	2.4	2.1	1.8
77.5°	3.7	3.7	3.7	3.7	3.5	3.3	3.0	2.7	2.4	2.1	1.8
75°	4.7	4.6	4.3	4.0	3.6	3.3	3.0	2.7	2.5	2.4	2.3
72.5°	5.8	5.5	5.2	5.5	5.4	5.3	5.2	4.8	4.3	4.3	4.4
70°	10.8	11.3	11.3	10.8	9.7	8.7	7.9	7.0	6.0	5.7	5.7
67.5°	17.2	16.4	15.4	14.0	12.0	10.2	9.1	8.1	7.2	6.8	6.9
65°	21.4	17.7	15.2	13.2	11.6	10.2	9.1	8.0	6.8	6.2	6.1
62.5°	19.5	15.3	12.7	11.1	10.0	9.1	7.6	6.5	5.6	5.1	5.3
60°	16.8	12.3	9.5	8.3	7.1	6.0	5.4	5.1	4.8	4.7	4.8
57.5°	13.4	9.4	7.0	6.5	5.9	5.1	4.8	4.9	4.9	4.7	4.7
55°	9.8	8.0	7.1	6.8	6.5	6.1	5.8	5.7	5.6	5.5	5.6
52.5°	8.0	8.0	8.1	8.0	7.7	7.3	7.0	7.0	7.1	7.3	7.7
50°	8.8	9.0	9.2	9.1	8.9	8.6	8.2	8.6	9.1	9.6	9.9
47.5°	10.2	10.6	11.2	10.4	10.6	11.3	10.8	11.0	12.7	13.8	14.5
45°	13.0	15.0	15.5	16.0	16.2	17.4	18.0	18.4	21.8	23.2	23.2
42.5°	20.6	22.6	24.2	25.8	25.5	29.4	34.5	37.4	37.3	36.7	37.3
40°	31.3	33.4	38.2	41.8	47.4	52.4	52.8	47.9	48.5	54.1	54.5
37.5°	47.0	53.6	63.1	73.6	76.4	73.2	75.1	78.7	82.4	87.5	93.5
35°	74.9	96.8	101.2	109.3	114.7	109.4	111.4	120.8	120.9	137.6	146.7
32.5°	132.8	166.5	176.9	169.6	183.7	192.2	166.0	199.0	205.3	222.4	243.4
30°	216.6	286.7	308.4	298.3	336.6	348.6	325.4	391.9	431.0	430.2	528.8
27.5°	411.6	446.6	487.3	549.4	557.4	578.1	709.2	810.6	939.3	1061.0	1218.9
25°	629.7	649.5	766.2	843.0	880.9	1019.4	1213.6	1372.1	1645.2	1900.0	2430.6
22.5°	830.6	904.8	1047.1	1170.0	1308.2	1531.2	1799.1	2093.1	2818.7	3711.5	4831.7
20°	1027.7	1125.4	1295.4	1516.5	1737.1	2040.5	2396.6	3328.1	4754.9	6917.3	9254.5
17.5°	1250.3	1344.2	1575.8	1888.1	2223.7	2678.5	3771.0	5550.7	8580.7	12811.1	16892.3
15°	1539.2	1700.8	1957.1	2418.5	3060.8	4132.7	5913.5	10303.3	16352.6	22931.4	29984.7
12.5°	1877.2	2143.7	2560.9	3157.2	4082.0	6614.3	11089.8	18138.7	27178.6	36418.4	48010.7
10°	2204.4	2650.2	3288.7	4228.2	6067.9	10059.1	16726.8	26899.9	40750.9	55037.0	67839.5
7.5°	2491.7	3081.7	3940.8	5257.6	8178.3	13946.5	23538.6	37714.5	54978.8	72632.7	89848.1
5°	2785.2	3486.7	4487.9	6028.5	9465.2	16760.4	29072.6	47614.9	68473.6	89855.6	112325.0
2.5°	3026.1	3826.7	4944.6	6667.6	10225.7	18272.7	32504.3	54510.5	78610.9	103090.3	131049.5
0°	3171.1	4037.6	5170.4	6687.6	10823.0	19464.0	33352.0	56951.4	82890.9	109805.2	139067.8
-2.5°	3175.6	3993.6	5060.4	6624.2	10695.1	19138.3	33411.2	56890.6	82660.7	108581.7	137459.2
-5°	3165.7	3893.5	4895.3	6396.7	9930.1	17439.3	30848.0	53204.7	78587.2	103118.1	129420.5
-7.5°	3150.6	3761.2	4660.9	6032.8	8950.9	15388.6	27895.7	48361.6	72309.9	95159.3	118704.3
-10°	3133.1	3624.2	4445.1	5720.6	8063.9	12949.4	22440.2	41078.5	63047.4	84132.4	103440.0
-12.5°	3118.1	3567.9	4271.4	5290.6	6985.6	10851.2	18945.4	33570.3	51360.8	69164.8	86268.3
-15°	3060.5	3493.4	4129.5	4971.3	6345.5	9048.9	14142.9	24252.1	38860.6	52924.7	66501.7
-17.5°	2942.7	3387.4	3787.6	4442.9	5434.1	7197.0	10534.5	16626.0	26005.8	36999.6	46578.1
-20°	2711.8	3016.6	3348.6	3905.2	4668.0	5596.1	7118.3	10589.2	15049.1	22220.1	27242.3



REPORT NUMBER: P731411 (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°	2369.0	2625.4	2904.8	3275.5	3812.0	4467.0	5279.2	6562.4	8889.6	11653.5	14708.2
-25°	2056.4	2240.6	2499.4	2818.0	3105.1	3532.4	4101.6	4599.4	5604.7	6417.7	8097.8
-27.5°	1819.4	1972.5	2206.9	2454.0	2666.0	2894.9	3290.9	3642.9	4132.0	4558.9	5241.9
-30°	1648.0	1804.9	1993.3	2180.6	2381.9	2576.0	2753.3	3020.1	3313.4	3592.0	3953.3
-32.5°	1436.4	1684.0	1820.4	1978.8	2157.9	2327.7	2462.8	2631.6	2793.0	2977.6	3175.7
-35°	1215.4	1485.9	1695.3	1817.0	1950.0	2112.2	2250.7	2366.1	2473.1	2587.6	2692.3
-37.5°	955.1	1254.0	1492.6	1672.7	1794.1	1907.3	2055.9	2166.8	2237.6	2332.6	2404.2
-40°	820.9	940.6	1211.7	1456.5	1613.0	1791.3	1929.5	2047.0	2176.5	2277.7	2336.0
-42.5°	755.4	824.9	897.0	1097.0	1341.9	1556.0	1734.2	1927.4	2100.7	2238.5	2366.7
-45°	704.9	754.2	805.6	871.9	940.5	1140.8	1360.6	1586.5	1788.8	1977.8	2140.0
-47.5°	637.4	695.1	742.1	784.0	826.1	887.6	953.4	1045.0	1239.5	1436.6	1624.6
-50°	568.0	621.0	672.9	721.6	761.0	792.0	816.9	857.3	915.9	974.2	1031.5
-52.5°	502.6	551.8	598.8	645.9	692.1	733.1	769.4	798.0	821.5	841.5	855.1
-55°	455.7	494.5	531.1	576.0	620.4	661.6	699.8	734.9	766.9	796.0	816.0
-57.5°	407.1	445.1	482.9	520.8	557.4	592.9	628.5	663.2	695.8	725.4	745.3
-60°	358.9	391.4	428.9	468.0	504.5	538.7	571.8	602.9	631.9	656.8	672.9
-62.5°	313.4	344.1	376.5	411.6	448.6	484.8	517.9	549.4	579.3	603.4	619.0
-65°	267.4	293.3	321.0	350.0	380.0	410.8	442.3	474.5	507.0	533.0	550.0
-67.5°	200.8	226.7	253.9	282.3	307.9	331.4	354.1	377.6	401.3	421.0	436.5
-70°	130.7	149.9	168.9	188.3	209.6	231.1	251.7	271.0	288.9	303.2	314.8
-72.5°	70.6	80.0	90.5	105.2	119.4	133.8	147.9	161.3	173.7	183.0	190.4
-75°	32.7	37.0	45.0	52.3	59.1	66.0	72.8	78.9	84.5	88.6	91.6
-77.5°	23.2	25.2	27.0	29.0	30.9	33.5	36.3	39.0	41.7	44.3	46.8
-80°	16.3	17.4	18.5	19.5	20.4	21.9	23.5	25.1	26.7	28.4	29.9
-82.5°	10.9	11.6	12.3	13.0	13.6	14.5	15.4	16.2	17.1	18.4	19.7
-85°	7.4	7.7	8.1	8.4	8.7	9.4	10.2	10.9	11.5	12.5	13.4
-87.5°	5.7	5.7	5.7	5.8	5.8	6.4	7.0	7.6	8.2	9.1	10.0
-90°	3.5	3.2	3.0	2.7	2.4	2.1	1.8	1.5	1.2	0.9	0.6



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	8.5	9.4	10.0	10.6	10.0	9.4	8.5	7.7	6.8	5.9	5.6
87.5°	1.2	1.2	0.6	0.0	0.6	1.2	1.2	1.2	1.2	1.2	1.5
85°	1.2	1.2	0.6	0.0	0.6	1.2	1.2	1.2	1.2	1.2	1.5
82.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.0	2.3	2.5
80°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.7
77.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.7
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.5	2.7
72.5°	4.6	4.6	4.7	4.7	4.7	4.6	4.6	4.4	4.3	4.3	4.8
70°	5.8	5.9	5.9	5.9	5.9	5.9	5.8	5.7	5.7	6.0	7.0
67.5°	7.0	7.1	7.1	7.1	7.1	7.1	7.0	6.9	6.8	7.2	8.1
65°	6.0	5.9	5.9	5.9	5.9	5.9	6.0	6.1	6.2	6.8	8.0
62.5°	5.5	5.8	5.9	5.9	5.9	5.8	5.5	5.3	5.1	5.6	6.5
60°	4.8	4.8	4.7	4.7	4.7	4.8	4.8	4.8	4.7	4.8	5.1
57.5°	4.7	4.7	5.2	5.9	5.2	4.7	4.7	4.7	4.7	4.9	4.9
55°	5.7	5.8	6.3	7.1	6.3	5.8	5.7	5.6	5.5	5.6	5.7
52.5°	7.9	8.1	8.3	8.3	8.3	8.1	7.9	7.7	7.3	7.1	7.0
50°	10.2	10.4	10.6	10.6	10.6	10.4	10.2	9.9	9.6	9.1	8.6
47.5°	15.0	15.1	15.2	15.3	15.2	15.1	15.0	14.5	13.8	12.7	11.0
45°	24.1	24.4	24.6	24.8	24.6	24.4	24.1	23.2	23.2	21.8	18.4
42.5°	38.8	39.5	39.4	38.9	39.4	39.5	38.8	37.3	36.7	37.3	37.4
40°	55.4	55.4	54.7	54.2	54.7	55.4	55.4	54.5	54.1	48.5	47.9
37.5°	96.3	92.8	86.6	83.7	86.6	92.8	96.3	93.5	87.5	82.4	78.7
35°	149.1	151.3	151.9	150.9	151.9	151.3	149.1	146.7	137.6	120.9	120.8
32.5°	249.3	261.2	265.1	272.3	265.1	261.2	249.3	243.4	222.4	205.3	199.0
30°	513.3	509.7	465.0	445.6	465.0	509.7	513.3	528.8	430.2	431.0	391.9
27.5°	1382.7	1541.8	1617.7	1611.5	1617.7	1541.8	1382.7	1218.9	1061.0	939.3	810.6
25°	2847.6	3103.4	3273.0	3161.7	3273.0	3103.4	2847.6	2430.6	1900.0	1645.2	1372.1
22.5°	5875.0	6432.6	6736.6	6845.6	6736.6	6432.6	5875.0	4831.7	3711.5	2818.7	2093.1
20°	11773.2	12826.3	13595.3	12953.2	13595.3	12826.3	11773.2	9254.5	6917.3	4754.9	3328.1
17.5°	21857.1	25132.7	28030.5	28936.1	28030.5	25132.7	21857.1	16892.3	12811.1	8580.7	5550.7
15°	36784.5	42316.4	45604.5	45412.9	45604.5	42316.4	36784.5	29984.7	22931.4	16352.6	10303.3
12.5°	56597.1	63423.7	67978.7	66965.8	67978.7	63423.7	56597.1	48010.7	36418.4	27178.6	18138.7
10°	80403.5	90743.7	98256.6	97910.6	98256.6	90743.7	80403.5	67839.5	55037.0	40750.9	26899.9
7.5°	105085.4	122060.2	136793.6	139272.9	136793.6	122060.2	105085.4	89848.1	72632.7	54978.8	37714.5
5°	136914.8	159288.3	173920.0	174756.3	173920.0	159288.3	136914.8	112325.0	89855.6	68473.6	47614.9
2.5°	162733.7	188399.9	200747.8	208229.2	200747.8	188399.9	162733.7	131049.5	103090.3	78610.9	54510.5
0°	174830.0	195695.1	218270.6	228966.9	218270.6	195695.1	174830.0	139067.8	109805.2	82890.9	56951.4
-2.5°	169867.4	192225.9	205771.4	217107.7	205771.4	192225.9	169867.4	137459.2	108581.7	82660.7	56890.6
-5°	158612.6	180766.2	192129.8	193190.0	192129.8	180766.2	158612.6	129420.5	103118.1	78587.2	53204.7
-7.5°	140239.0	159024.0	170954.6	174666.7	170954.6	159024.0	140239.0	118704.3	95159.3	72309.9	48361.6
-10°	120712.5	134222.0	141932.5	143410.7	141932.5	134222.0	120712.5	103440.0	84132.4	63047.4	41078.5
-12.5°	100411.7	111471.9	116792.3	117954.6	116792.3	111471.9	100411.7	86268.3	69164.8	51360.8	33570.3
-15°	77923.6	86246.2	91036.6	91870.2	91036.6	86246.2	77923.6	66501.7	52924.7	38860.6	24252.1
-17.5°	55620.4	62383.1	67235.8	67880.6	67235.8	62383.1	55620.4	46578.1	36999.6	26005.8	16626.0
-20°	34167.4	38768.9	41607.7	41191.4	41607.7	38768.9	34167.4	27242.3	22220.1	15049.1	10589.2



REPORT NUMBER: P731411 (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°
-22.5°	18395.3	20875.6	22075.3	22695.2	22075.3	20875.6	18395.3	14708.2	11653.5	8889.6	6562.4
-25°	9723.7	10774.1	11313.1	11735.5	11313.1	10774.1	9723.7	8097.8	6417.7	5604.7	4599.4
-27.5°	5785.7	6147.0	6347.6	6457.7	6347.6	6147.0	5785.7	5241.9	4558.9	4132.0	3642.9
-30°	4241.5	4414.6	4506.0	4551.5	4506.0	4414.6	4241.5	3953.3	3592.0	3313.4	3020.1
-32.5°	3334.8	3437.5	3500.7	3523.6	3500.7	3437.5	3334.8	3175.7	2977.6	2793.0	2631.6
-35°	2766.3	2800.7	2813.0	2835.1	2813.0	2800.7	2766.3	2692.3	2587.6	2473.1	2366.1
-37.5°	2458.7	2490.6	2506.2	2519.2	2506.2	2490.6	2458.7	2404.2	2332.6	2237.6	2166.8
-40°	2363.0	2396.9	2431.6	2456.7	2431.6	2396.9	2363.0	2336.0	2277.7	2176.5	2047.0
-42.5°	2422.8	2478.2	2516.3	2521.6	2516.3	2478.2	2422.8	2366.7	2238.5	2100.7	1927.4
-45°	2232.1	2295.3	2329.7	2341.2	2329.7	2295.3	2232.1	2140.0	1977.8	1788.8	1586.5
-47.5°	1791.2	1935.5	2021.7	2040.6	2021.7	1935.5	1791.2	1624.6	1436.6	1239.5	1045.0
-50°	1087.1	1138.6	1166.8	1170.6	1166.8	1138.6	1087.1	1031.5	974.2	915.9	857.3
-52.5°	865.9	875.1	880.8	884.1	880.8	875.1	865.9	855.1	841.5	821.5	798.0
-55°	833.6	849.1	857.7	861.7	857.7	849.1	833.6	816.0	796.0	766.9	734.9
-57.5°	763.1	778.7	785.7	787.5	785.7	778.7	763.1	745.3	725.4	695.8	663.2
-60°	687.5	700.8	705.0	705.0	705.0	700.8	687.5	672.9	656.8	631.9	602.9
-62.5°	633.8	647.7	654.3	657.8	654.3	647.7	633.8	619.0	603.4	579.3	549.4
-65°	564.9	577.5	582.8	584.7	582.8	577.5	564.9	550.0	533.0	507.0	474.5
-67.5°	450.4	462.3	465.7	465.6	465.7	462.3	450.4	436.5	421.0	401.3	377.6
-70°	324.7	332.6	333.9	332.4	333.9	332.6	324.7	314.8	303.2	288.9	271.0
-72.5°	196.3	200.9	202.6	202.8	202.6	200.9	196.3	190.4	183.0	173.7	161.3
-75°	93.9	95.6	97.0	97.8	97.0	95.6	93.9	91.6	88.6	84.5	78.9
-77.5°	49.2	51.4	52.3	53.0	52.3	51.4	49.2	46.8	44.3	41.7	39.0
-80°	31.4	32.8	33.0	33.0	33.0	32.8	31.4	29.9	28.4	26.7	25.1
-82.5°	21.0	22.3	22.4	22.4	22.4	22.3	21.0	19.7	18.4	17.1	16.2
-85°	14.4	15.3	15.9	16.5	15.9	15.3	14.4	13.4	12.5	11.5	10.9
-87.5°	10.9	11.8	11.8	11.8	11.8	11.8	10.9	10.0	9.1	8.2	7.6
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.9	1.2	1.5



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	5.3	5.0	4.7	4.7	4.7	4.7	4.7	5.0	5.3	5.6	5.9
87.5°	1.8	2.1	2.4	2.7	3.0	3.2	3.5	3.8	4.1	4.4	4.7
85°	1.8	2.1	2.4	2.7	3.0	3.2	3.5	3.8	4.1	4.4	4.7
82.5°	2.8	3.0	3.2	3.2	3.3	3.4	3.5	3.8	4.1	4.4	4.7
80°	3.0	3.3	3.5	3.5	3.5	3.5	3.5	3.9	4.2	4.5	4.8
77.5°	3.0	3.3	3.5	3.7	3.7	3.7	3.7	3.9	4.2	4.5	4.8
75°	3.0	3.3	3.6	4.0	4.3	4.6	4.7	4.8	4.9	5.0	5.1
72.5°	5.2	5.3	5.4	5.5	5.2	5.5	5.8	6.0	6.1	6.0	5.8
70°	7.9	8.7	9.7	10.8	11.3	11.3	10.8	9.8	8.3	7.8	7.2
67.5°	9.1	10.2	12.0	14.0	15.4	16.4	17.2	17.4	16.4	14.7	10.9
65°	9.1	10.2	11.6	13.2	15.2	17.7	21.4	23.3	23.4	22.2	17.3
62.5°	7.6	9.1	10.0	11.1	12.7	15.3	19.5	23.4	27.1	28.2	22.6
60°	5.4	6.0	7.1	8.3	9.5	12.3	16.8	21.4	26.0	26.1	24.3
57.5°	4.8	5.1	5.9	6.5	7.0	9.4	13.4	18.5	23.5	22.8	21.6
55°	5.8	6.1	6.5	6.8	7.1	8.0	9.8	13.3	17.9	19.0	18.1
52.5°	7.0	7.3	7.7	8.0	8.1	8.0	8.0	10.1	12.2	14.0	14.6
50°	8.2	8.6	8.9	9.1	9.2	9.0	8.8	8.6	9.8	11.2	11.8
47.5°	10.8	11.3	10.6	10.4	11.2	10.6	10.2	10.3	10.9	10.5	11.1
45°	18.0	17.4	16.2	16.0	15.5	15.0	13.0	14.0	14.1	13.5	11.7
42.5°	34.5	29.4	25.5	25.8	24.2	22.6	20.6	20.3	19.6	18.0	16.9
40°	52.8	52.4	47.4	41.8	38.2	33.4	31.3	28.7	27.1	24.7	24.1
37.5°	75.1	73.2	76.4	73.6	63.1	53.6	47.0	40.1	35.7	38.0	36.1
35°	111.4	109.4	114.7	109.3	101.2	96.8	74.9	58.5	53.0	58.9	53.0
32.5°	166.0	192.2	183.7	169.6	176.9	166.5	132.8	91.7	91.1	89.6	79.4
30°	325.4	348.6	336.6	298.3	308.4	286.7	216.6	202.6	169.9	129.3	112.9
27.5°	709.2	578.1	557.4	549.4	487.3	446.6	411.6	370.9	286.0	209.8	156.9
25°	1213.6	1019.4	880.9	843.0	766.2	649.5	629.7	579.4	475.0	318.9	215.7
22.5°	1799.1	1531.2	1308.2	1170.0	1047.1	904.8	830.6	798.9	686.7	455.7	311.4
20°	2396.6	2040.5	1737.1	1516.5	1295.4	1125.4	1027.7	977.7	838.4	621.8	411.3
17.5°	3771.0	2678.5	2223.7	1888.1	1575.8	1344.2	1250.3	1131.8	989.9	782.9	508.4
15°	5913.5	4132.7	3060.8	2418.5	1957.1	1700.8	1539.2	1312.6	1138.6	925.2	659.5
12.5°	11089.8	6614.3	4082.0	3157.2	2560.9	2143.7	1877.2	1566.9	1306.4	1120.4	883.3
10°	16726.8	10059.1	6067.9	4228.2	3288.7	2650.2	2204.4	1824.5	1525.0	1333.6	1104.5
7.5°	23538.6	13946.5	8178.3	5257.6	3940.8	3081.7	2491.7	2043.7	1728.0	1533.3	1319.8
5°	29072.6	16760.4	9465.2	6028.5	4487.9	3486.7	2785.2	2229.6	1916.6	1720.5	1525.0
2.5°	32504.3	18272.7	10225.7	6667.6	4944.6	3826.7	3026.1	2387.8	2063.1	1842.0	1639.0
0°	33352.0	19464.0	10823.0	6687.6	5170.4	4037.6	3171.1	2526.3	2185.6	1943.9	1735.3
-2.5°	33411.2	19138.3	10695.1	6624.2	5060.4	3993.6	3175.6	2592.8	2255.5	1996.6	1770.7
-5°	30848.0	17439.3	9930.1	6396.7	4895.3	3893.5	3165.7	2653.4	2308.4	2040.8	1783.3
-7.5°	27895.7	15388.6	8950.9	6032.8	4660.9	3761.2	3150.6	2702.4	2344.5	2089.2	1800.1
-10°	22440.2	12949.4	8063.9	5720.6	4445.1	3624.2	3133.1	2717.8	2370.7	2128.8	1790.0
-12.5°	18945.4	10851.2	6985.6	5290.6	4271.4	3567.9	3118.1	2688.7	2388.6	2160.3	1751.1
-15°	14142.9	9048.9	6345.5	4971.3	4129.5	3493.4	3060.5	2603.5	2323.2	2144.5	1682.3
-17.5°	10534.5	7197.0	5434.1	4442.9	3787.6	3387.4	2942.7	2511.3	2211.6	1982.5	1507.6
-20°	7118.3	5596.1	4668.0	3905.2	3348.6	3016.6	2711.8	2350.1	2073.8	1750.8	1286.8



REPORT NUMBER: P731411 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-CV2

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5279.2	4467.0	3812.0	3275.5	2904.8	2625.4	2369.0	2109.4	1903.3	1511.0	1061.5
-25°	4101.6	3532.4	3105.1	2818.0	2499.4	2240.6	2056.4	1896.7	1637.3	1260.3	859.1
-27.5°	3290.9	2894.9	2666.0	2454.0	2206.9	1972.5	1819.4	1680.4	1369.4	1013.2	792.7
-30°	2753.3	2576.0	2381.9	2180.6	1993.3	1804.9	1648.0	1396.5	1109.2	821.5	732.8
-32.5°	2462.8	2327.7	2157.9	1978.8	1820.4	1684.0	1436.4	1127.2	863.9	759.2	683.3
-35°	2250.7	2112.2	1950.0	1817.0	1695.3	1485.9	1215.4	914.2	768.5	701.6	637.1
-37.5°	2055.9	1907.3	1794.1	1672.7	1492.6	1254.0	955.1	797.5	714.4	654.0	588.1
-40°	1929.5	1791.3	1613.0	1456.5	1211.7	940.6	820.9	739.3	674.4	603.8	535.8
-42.5°	1734.2	1556.0	1341.9	1097.0	897.0	824.9	755.4	694.4	627.0	552.4	485.7
-45°	1360.6	1140.8	940.5	871.9	805.6	754.2	704.9	639.4	568.9	501.9	436.4
-47.5°	953.4	887.6	826.1	784.0	742.1	695.1	637.4	574.6	512.3	451.2	399.7
-50°	816.9	792.0	761.0	721.6	672.9	621.0	568.0	512.5	459.1	411.1	362.2
-52.5°	769.4	733.1	692.1	645.9	598.8	551.8	502.6	460.3	415.9	371.0	324.8
-55°	699.8	661.6	620.4	576.0	531.1	494.5	455.7	414.9	373.6	330.9	290.9
-57.5°	628.5	592.9	557.4	520.8	482.9	445.1	407.1	369.0	332.0	294.2	257.8
-60°	571.8	538.7	504.5	468.0	428.9	391.4	358.9	325.3	290.5	260.3	229.2
-62.5°	517.9	484.8	448.6	411.6	376.5	344.1	313.4	284.1	256.9	229.3	194.1
-65°	442.3	410.8	380.0	350.0	321.0	293.3	267.4	239.1	210.1	182.6	152.1
-67.5°	354.1	331.4	307.9	282.3	253.9	226.7	200.8	176.4	153.1	130.0	103.5
-70°	251.7	231.1	209.6	188.3	168.9	149.9	130.7	111.4	92.3	77.6	62.3
-72.5°	147.9	133.8	119.4	105.2	90.5	80.0	70.6	60.8	50.2	38.8	30.1
-75°	72.8	66.0	59.1	52.3	45.0	37.0	32.7	30.3	27.7	25.1	22.3
-77.5°	36.3	33.5	30.9	29.0	27.0	25.2	23.2	21.3	19.8	18.4	17.1
-80°	23.5	21.9	20.4	19.5	18.5	17.4	16.3	15.4	14.5	13.8	13.0
-82.5°	15.4	14.5	13.6	13.0	12.3	11.6	10.9	10.5	10.0	9.5	9.0
-85°	10.2	9.4	8.7	8.4	8.1	7.7	7.4	7.4	7.5	7.5	7.6
-87.5°	7.0	6.4	5.8	5.8	5.7	5.7	5.7	6.0	6.2	6.5	6.7
-90°	1.8	2.1	2.4	2.7	3.0	3.2	3.5	3.8	4.1	4.4	4.7





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	5.9	5.9	5.9	5.9	6.2	6.5	6.8	7.1	6.8	6.5	6.2
87.5°	4.7	4.7	4.7	4.7	5.0	5.3	5.6	5.9	5.9	5.9	5.9
85°	4.8	4.9	4.9	4.9	5.1	5.3	5.6	5.9	5.9	5.9	5.9
82.5°	5.0	5.3	5.5	5.6	5.6	5.6	5.7	5.9	5.9	5.9	5.9
80°	5.1	5.4	5.7	5.9	5.9	5.9	5.9	5.9	6.1	6.1	6.1
77.5°	5.1	5.4	5.7	5.9	5.9	5.9	5.9	6.0	6.2	6.4	6.4
75°	5.1	5.4	5.7	5.9	5.9	5.9	5.9	6.0	6.3	6.6	6.7
72.5°	5.7	5.7	5.8	5.9	5.9	5.9	5.9	6.0	6.3	6.6	6.9
70°	6.5	6.0	5.9	6.0	6.0	5.9	5.9	6.1	6.3	6.6	6.9
67.5°	7.7	7.0	6.4	6.2	6.3	6.2	6.0	6.1	6.4	6.7	7.0
65°	12.7	9.3	7.1	6.8	6.6	6.7	6.5	6.3	6.4	6.7	7.0
62.5°	17.4	12.6	9.5	7.7	7.0	6.9	7.0	6.7	6.5	6.8	7.0
60°	21.7	16.3	12.0	9.6	7.9	7.1	7.1	7.0	6.8	6.8	7.1
57.5°	20.1	18.9	15.4	11.7	9.3	7.7	7.1	7.1	7.0	6.9	7.1
55°	17.1	16.5	16.9	14.2	10.8	8.7	7.4	7.1	7.1	7.0	7.1
52.5°	13.9	14.8	16.0	15.5	12.5	9.7	8.2	7.1	7.1	7.1	7.1
50°	11.5	13.3	15.3	15.7	13.8	10.9	8.9	7.6	7.1	7.1	7.2
47.5°	11.5	13.0	14.4	16.0	14.8	12.0	9.7	8.1	7.1	7.1	7.3
45°	13.3	14.0	14.5	15.5	15.8	12.8	10.4	8.6	7.5	7.2	7.4
42.5°	16.2	16.5	16.1	15.2	15.8	13.4	10.9	9.0	7.8	7.2	7.5
40°	22.4	20.2	18.6	18.1	16.3	13.8	11.2	9.3	8.1	7.4	7.5
37.5°	29.7	26.0	22.7	23.3	18.7	15.1	11.4	9.5	8.5	7.8	7.6
35°	43.3	33.8	32.3	31.5	25.2	17.0	11.4	9.5	8.9	8.1	7.7
32.5°	59.6	50.1	48.6	42.3	33.4	19.7	12.6	10.4	9.5	8.4	7.7
30°	90.1	81.0	69.5	55.1	43.6	27.3	15.6	11.4	10.1	8.7	7.9
27.5°	138.9	117.3	95.9	74.4	55.8	36.5	19.3	12.7	10.8	9.1	8.1
25°	191.1	162.1	130.8	98.1	69.3	49.8	23.1	14.3	11.7	9.6	8.4
22.5°	246.3	210.4	169.2	124.5	88.9	65.6	30.4	17.5	12.9	10.1	8.6
20°	302.4	260.4	212.3	156.2	112.9	82.2	42.2	20.5	14.1	10.7	8.8
17.5°	364.3	321.1	267.9	196.2	139.0	99.7	55.1	23.4	15.5	11.3	9.0
15°	482.3	394.8	328.9	239.7	164.7	117.6	68.8	26.2	16.9	11.9	9.2
12.5°	626.3	469.3	393.6	285.6	190.0	135.8	82.8	28.9	18.3	12.9	9.5
10°	784.6	543.8	460.7	332.5	214.3	153.8	96.8	33.5	21.1	14.3	9.7
7.5°	950.7	617.5	528.2	379.3	240.6	179.2	124.2	42.9	24.2	15.7	10.0
5°	1105.0	684.1	595.2	437.5	281.4	212.0	153.6	52.7	27.2	17.2	10.2
2.5°	1197.3	738.2	658.1	494.0	320.9	243.4	182.2	62.5	30.2	18.7	10.4
0°	1272.0	788.7	715.6	545.8	358.4	273.5	208.7	71.9	33.0	20.0	10.6
-2.5°	1287.3	817.4	735.6	575.2	393.6	302.9	230.1	87.4	43.8	26.6	14.1
-5°	1284.2	842.7	751.0	599.6	426.0	330.2	247.9	101.9	54.2	32.8	17.5
-7.5°	1280.4	854.8	759.1	617.2	455.4	355.0	261.9	115.0	64.0	38.7	20.6
-10°	1252.4	857.4	757.1	614.7	461.6	365.2	269.6	126.6	72.9	44.0	23.5
-12.5°	1191.6	856.9	751.8	607.0	460.0	361.9	261.5	134.7	80.6	48.6	25.8
-15°	1094.6	853.3	743.6	593.8	453.7	356.6	252.1	140.4	86.8	52.7	27.7
-17.5°	952.5	846.6	732.8	575.3	442.3	349.2	241.7	144.4	92.1	56.4	29.4
-20°	885.6	814.0	717.5	551.4	425.5	339.7	231.0	146.7	96.2	59.1	30.9



REPORT NUMBER: P731411 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-CV2

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	836.2	760.3	662.0	529.3	407.5	328.2	220.5	147.3	99.2	60.7	31.7
-25°	779.0	705.0	603.0	488.6	392.4	311.5	214.8	146.0	101.0	61.2	31.7
-27.5°	717.1	646.5	547.0	448.1	370.2	296.3	212.2	147.4	101.6	60.4	30.9
-30°	654.8	585.6	499.4	411.6	346.9	275.6	207.3	147.3	100.5	59.2	29.2
-32.5°	607.0	530.3	454.9	384.8	322.6	254.6	195.7	145.6	97.8	57.1	28.0
-35°	562.1	485.4	413.1	357.3	298.3	237.1	182.1	142.2	93.3	53.9	26.4
-37.5°	515.2	444.7	382.8	330.1	274.3	218.1	171.1	131.7	87.0	49.3	24.2
-40°	470.1	407.2	353.9	304.4	251.6	197.8	159.0	119.6	80.3	43.4	21.3
-42.5°	424.9	374.5	325.5	279.0	228.0	183.2	145.8	106.7	70.7	38.4	17.7
-45°	388.2	341.0	296.0	251.3	204.4	167.6	130.7	93.3	60.0	33.4	14.9
-47.5°	350.5	307.3	266.2	223.6	186.1	150.8	114.7	80.4	48.6	27.5	14.0
-50°	312.5	274.4	237.1	200.7	166.8	132.4	98.3	66.5	40.5	20.4	13.0
-52.5°	281.0	244.5	211.0	178.7	146.0	113.2	81.8	52.3	31.8	17.0	11.7
-55°	252.0	216.6	186.1	155.3	124.3	93.6	64.3	41.7	22.6	15.2	10.4
-57.5°	224.4	189.7	159.9	130.8	101.3	72.9	49.5	30.5	18.5	13.2	10.2
-60°	196.0	161.7	132.6	104.1	76.8	54.1	36.1	21.5	15.9	11.4	10.0
-62.5°	161.3	130.6	101.4	75.5	54.9	37.9	23.8	18.1	13.0	10.9	9.7
-65°	121.8	93.8	68.9	51.8	35.8	24.2	19.5	14.5	11.9	10.4	9.4
-67.5°	78.5	60.8	44.3	29.6	23.5	19.5	15.1	12.6	11.1	9.8	9.1
-70°	46.9	32.4	25.6	22.2	18.6	15.1	13.2	11.5	10.2	9.4	8.8
-72.5°	26.6	23.3	20.1	17.1	15.2	13.3	11.6	10.3	9.5	8.9	8.4
-75°	19.5	17.7	16.2	14.7	13.0	11.5	10.4	9.4	8.8	8.4	8.0
-77.5°	15.8	14.5	13.3	12.3	11.2	10.2	9.3	8.5	8.2	7.9	7.7
-80°	12.2	11.5	10.9	10.4	9.5	8.8	8.3	7.9	7.7	7.5	7.3
-82.5°	8.7	8.7	8.8	8.7	8.3	8.0	7.7	7.4	7.3	7.1	7.0
-85°	7.6	7.6	7.5	7.4	7.2	7.1	7.1	7.1	7.0	6.9	6.7
-87.5°	6.7	6.7	6.6	6.6	6.7	6.8	6.9	7.1	6.9	6.7	6.5
-90°	4.7	4.7	4.7	4.7	5.0	5.3	5.6	5.9	5.9	5.9	5.9



REPORT NUMBER: P731411 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-CV2

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.9	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	5.9	6.0	6.0	6.0	6.0	5.9	5.9
85°	5.9	6.0	6.1	6.1	6.1	6.0	5.9
82.5°	5.9	6.1	6.2	6.3	6.2	6.0	5.9
80°	6.0	6.2	6.3	6.4	6.3	6.0	5.9
77.5°	6.3	6.3	6.4	6.5	6.4	6.0	5.9
75°	6.6	6.5	6.6	6.6	6.5	6.0	5.9
72.5°	6.9	6.7	6.7	6.7	6.6	6.1	5.9
70°	7.1	6.9	6.8	6.9	6.7	6.1	5.9
67.5°	7.1	7.0	6.9	6.9	6.7	6.1	5.9
65°	7.1	7.1	6.9	6.9	6.8	6.1	5.9
62.5°	7.1	7.1	7.0	7.0	6.9	6.1	5.9
60°	7.1	7.1	7.1	7.0	6.9	6.2	5.9
57.5°	7.1	7.1	7.1	7.0	6.9	6.2	5.9
55°	7.1	7.1	7.1	7.1	6.9	6.2	5.9
52.5°	7.1	7.1	7.1	7.1	6.9	6.2	5.9
50°	7.1	7.1	7.1	7.1	6.9	6.2	5.9
47.5°	7.1	7.1	7.1	7.1	6.9	6.2	5.9
45°	7.2	7.1	7.1	7.1	6.9	6.2	5.9
42.5°	7.3	7.1	7.1	7.1	6.9	6.2	5.9
40°	7.5	7.1	7.1	7.1	6.9	6.2	5.9
37.5°	7.6	7.1	7.1	7.1	6.9	6.2	5.9
35°	7.8	7.2	7.1	7.1	6.9	6.2	5.9
32.5°	7.9	7.3	7.1	7.1	6.9	6.2	5.9
30°	8.0	7.4	7.1	7.1	6.9	6.2	5.9
27.5°	8.1	7.6	7.1	7.1	7.0	6.1	5.9
25°	8.1	7.7	7.1	7.1	7.0	6.1	5.9
22.5°	8.2	7.8	7.1	7.1	7.0	6.1	5.9
20°	8.3	7.9	7.1	7.1	7.0	6.1	5.9
17.5°	8.4	8.0	7.1	7.1	7.0	6.1	5.9
15°	8.5	8.1	7.1	7.1	7.0	6.1	5.9
12.5°	8.6	8.2	7.1	7.1	7.1	6.0	5.9
10°	8.8	8.2	7.1	7.1	7.1	6.0	5.9
7.5°	8.9	8.2	7.1	7.1	7.1	6.0	5.9
5°	9.1	8.3	7.1	7.1	7.1	6.0	5.9
2.5°	9.2	8.3	7.1	7.1	7.1	5.9	5.9
0°	9.4	8.3	7.1	7.1	7.1	5.9	5.9
-2.5°	10.3	8.3	7.1	7.1	7.1	5.9	5.9
-5°	11.2	8.3	7.1	7.1	7.1	5.9	5.9
-7.5°	12.0	8.2	7.1	7.1	7.1	5.9	5.9
-10°	12.7	8.2	7.1	7.1	7.1	5.9	5.9
-12.5°	13.3	8.2	7.1	7.1	7.0	5.9	5.9
-15°	13.6	8.1	7.1	7.1	7.0	5.9	5.9
-17.5°	13.8	8.0	7.1	7.1	7.0	5.9	5.9
-20°	14.0	7.9	7.1	7.1	7.0	5.9	5.9



REPORT NUMBER: P731411 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-CV2

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	14.4	7.8	7.1	7.1	6.9	5.9	5.9
-25°	14.4	8.0	7.1	7.1	6.9	5.9	5.9
-27.5°	14.0	8.1	7.1	7.1	6.8	5.9	5.9
-30°	13.2	8.2	7.1	7.1	6.8	5.9	5.9
-32.5°	11.9	8.2	7.2	7.1	6.7	5.9	5.9
-35°	11.5	8.1	7.3	7.1	6.7	5.9	5.9
-37.5°	11.3	8.0	7.4	7.1	6.6	5.9	5.9
-40°	11.1	8.1	7.4	7.1	6.5	5.9	5.9
-42.5°	10.7	8.2	7.5	7.1	6.5	5.9	5.9
-45°	10.1	8.2	7.5	7.1	6.4	5.9	5.9
-47.5°	9.4	8.3	7.6	7.2	6.3	5.9	5.9
-50°	9.3	8.3	7.6	7.1	6.2	5.9	5.9
-52.5°	9.2	8.3	7.6	7.0	6.2	5.9	5.9
-55°	9.2	8.2	7.6	6.9	6.1	5.9	5.9
-57.5°	9.1	8.2	7.6	6.8	6.0	5.9	5.9
-60°	8.9	8.1	7.5	6.7	5.9	5.9	5.9
-62.5°	8.8	8.0	7.4	6.6	5.9	5.9	5.9
-65°	8.6	7.9	7.2	6.4	5.9	5.9	5.9
-67.5°	8.4	7.8	7.0	6.3	5.9	5.9	5.9
-70°	8.2	7.5	6.9	6.2	5.9	5.9	5.9
-72.5°	8.0	7.3	6.7	6.1	5.9	5.9	5.9
-75°	7.7	7.1	6.5	6.1	5.9	5.9	5.9
-77.5°	7.4	6.9	6.4	6.1	5.9	5.9	5.9
-80°	7.1	6.7	6.3	6.0	5.9	5.9	5.9
-82.5°	6.8	6.5	6.2	6.0	5.9	5.9	5.9
-85°	6.5	6.3	6.1	6.0	5.9	5.9	5.9
-87.5°	6.2	6.1	6.0	5.9	5.9	5.9	5.9
-90°	5.9	5.9	5.9	5.9	5.9	5.9	5.9

(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

