

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: P731344 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-4S-CV5**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731344 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-80-4S-CV5  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

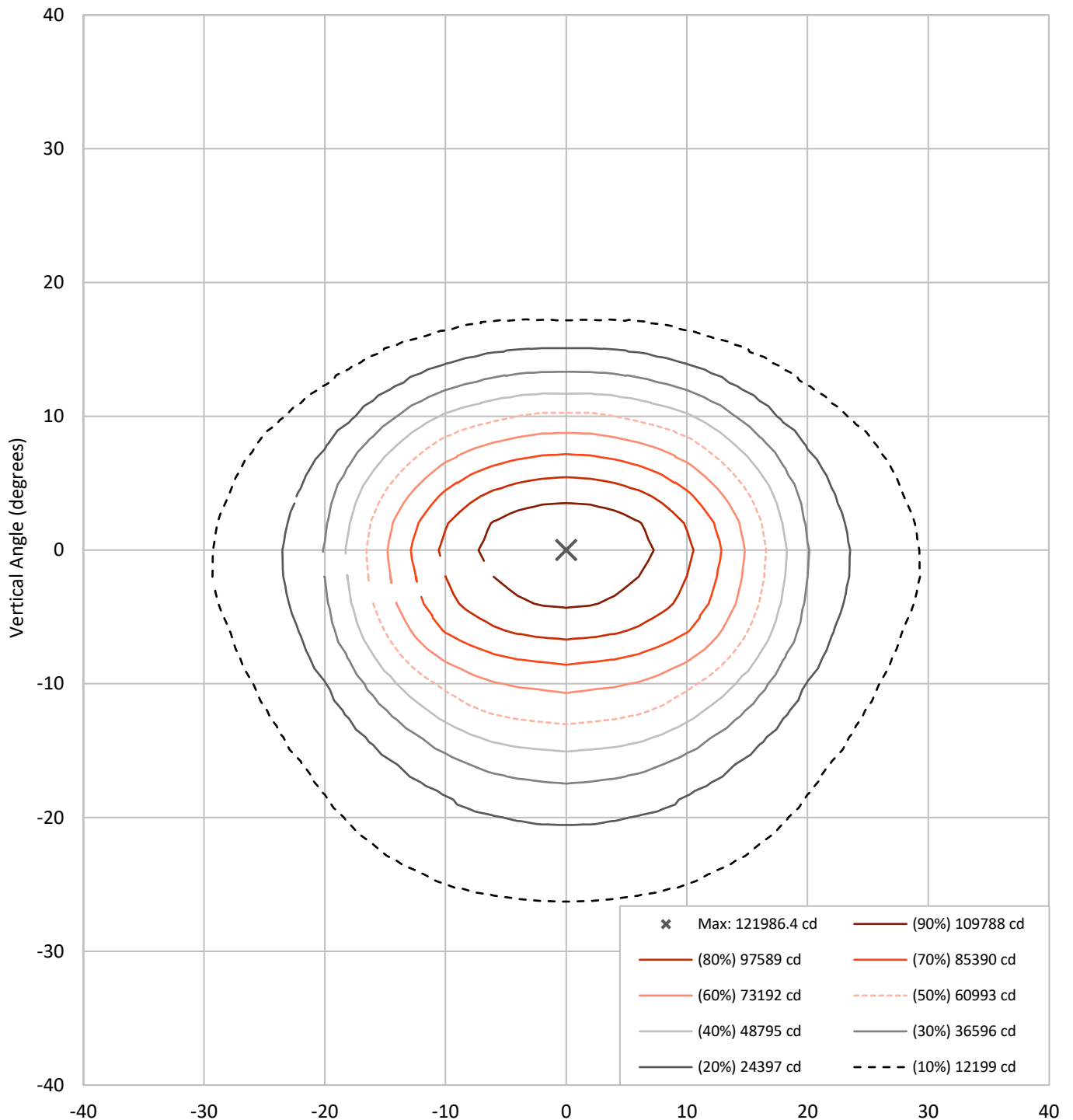
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 3V
Luminaire Lumens:	32202.3 lumens	Max Intensity:	121986.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	93.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.1°H x 23.4°V	Field Angle (10%):	58.5°H x 43.2°V
Beam Lumens:	16293.3 lumens	Field Lumens:	27771.7 lumens
Beam Efficiency:	50.6%	Field Efficiency:	86.2%

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

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CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV5

### Iso-Candela Plot





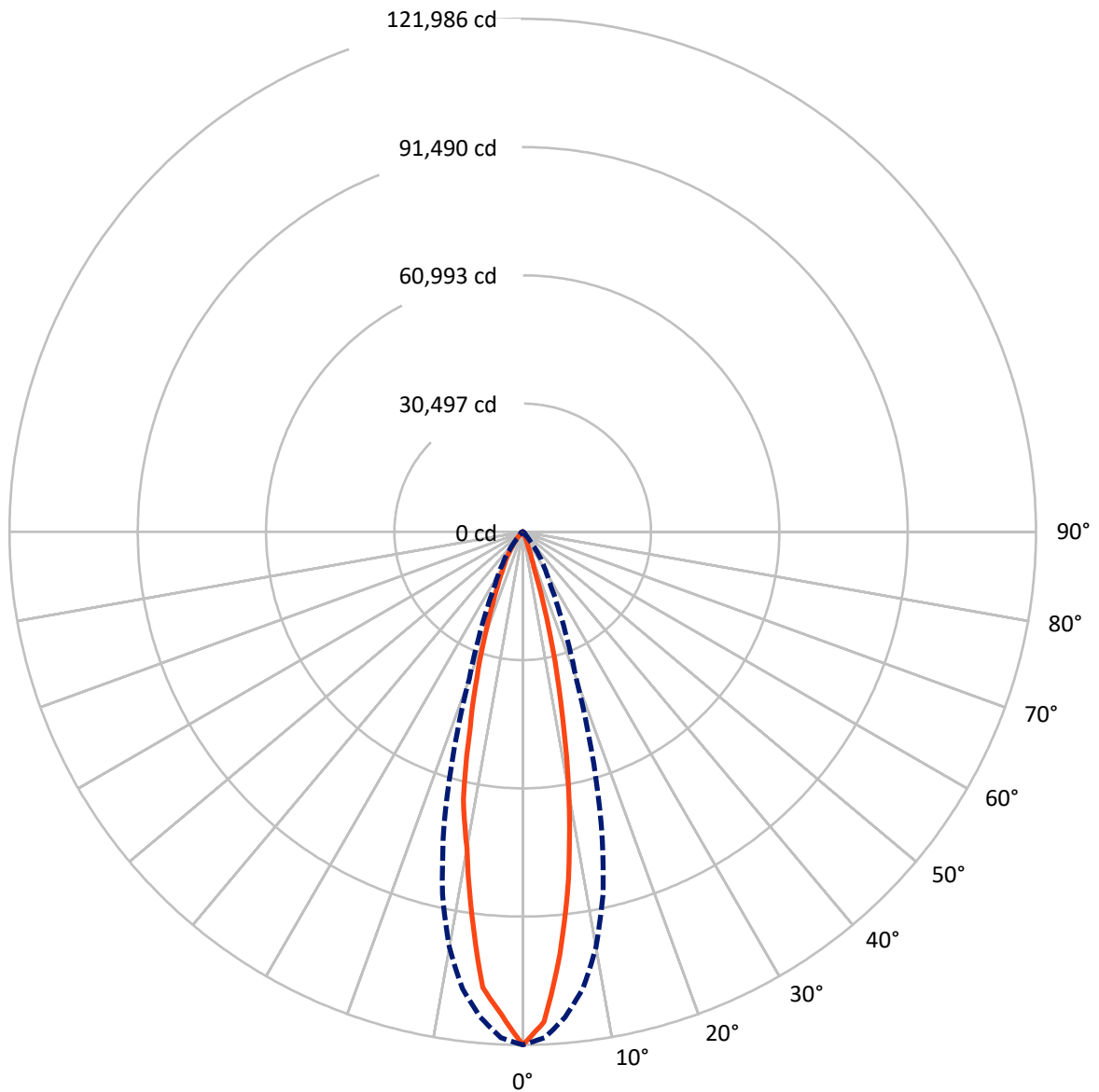
REPORT NUMBER: P731344 (CONVERTED FROM TYPE C PHOTOMETRY)  
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### Lumen Table

90																
80	0.1	0.3		0.4		0.4		0.3		0.4		0.4		0.3		0.1
70																
60	0.1	0.1	0.1	0.3	0.4	0.3	0.2	0.1	0.1	0.2	0.3	0.4	0.3	0.1	0.1	0.1
50		0.1	0.2	0.5	0.4	0.2	0.1	0.1	0.1	0.1	0.2	0.4	0.5	0.2	0.1	
40	0.1	0.1	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.1	0.1
30		0.1	0.3	0.5	0.7	1.4	2.5	3.7	3.7	2.5	1.4	0.7	0.5	0.3	0.1	
20	0.1	0.2	0.9	1.8	4.9	13.4	27.8	46.2	46.2	27.8	13.4	4.9	1.8	0.9	0.2	0.1
10		0.5	2.8	7.3	43.5	135.8	413.7	773.3	773.3	413.7	135.8	43.5	7.3	2.8	0.5	
0	0.2	1.0	5.6	18.3	134.9	475.2	1645.3	2799.8	2799.8	1645.3	475.2	134.9	18.3	5.6	1.0	0.2
-10		1.4	6.9	22.0	150.3	524.4	1812.2	2974.9	2974.9	1812.2	524.4	150.3	22.0	6.9	1.4	
-20	0.3	1.5	6.1	15.5	89.1	289.0	802.0	1409.4	1409.4	802.0	289.0	89.1	15.5	6.1	1.5	0.3
-30		1.4	5.1	10.3	37.2	144.5	297.7	433.5	433.5	297.7	144.5	37.2	10.3	5.1	1.4	
-40	0.2	1.2	4.3	8.1	15.1	45.0	102.1	144.9	144.9	102.1	45.0	15.1	8.1	4.3	1.2	0.2
-50		0.8	3.1	6.6	10.8	16.1	23.3	30.5	30.5	23.3	16.1	10.8	6.6	3.1	0.8	
-60	0.1	0.4	1.6	4.2	7.6	10.6	13.0	14.6	14.6	13.0	10.6	7.6	4.2	1.6	0.4	0.1
-70		0.2	0.6	1.6	3.2	5.1	6.9	7.9	7.9	6.9	5.1	3.2	1.6	0.6	0.2	
-80																
-90	0.1	0.5		1.5		3.9		5.6		3.9		1.5		0.5		0.1

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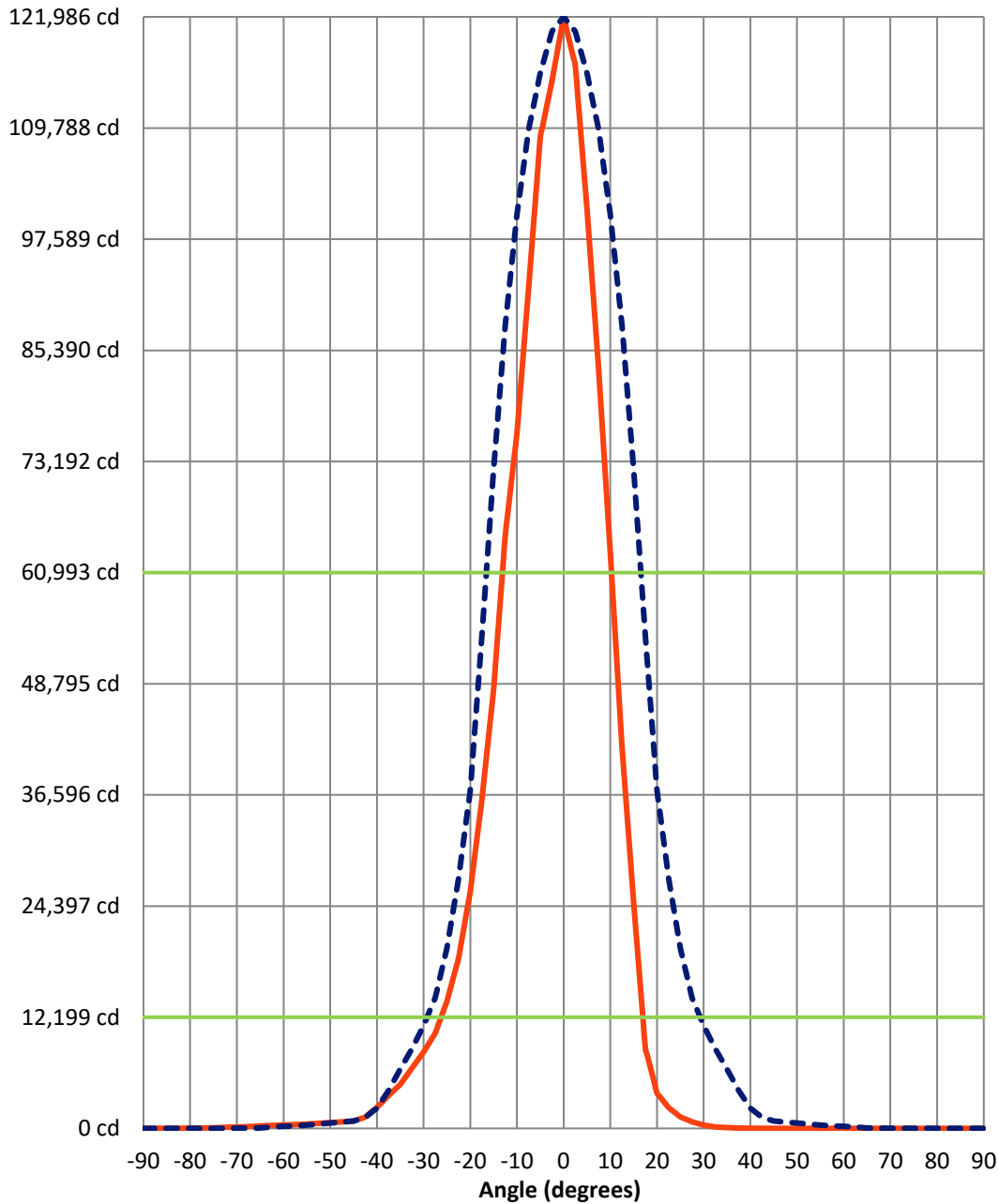
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 33.1°  
 V Angle: 23.4°  
 Lumens: 16293.3  
 Efficiency: 50.6%

**Field:**  
 H Angle: 58.5°  
 V Angle: 43.2°  
 Lumens: 27771.7  
 Efficiency: 86.2%

**Spill:**  
 Lumens: 4430.7  
 Efficiency: 13.8%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.5	5.0	5.6	5.3	5.1	4.8	4.5	4.8	5.1	5.3	5.6
87.5°	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.7	4.7	4.6	4.5
85°	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.0	4.9	4.7	4.5
82.5°	4.5	4.6	4.8	4.9	5.1	5.2	5.4	5.3	5.1	4.9	4.8
80°	4.5	4.7	4.9	5.1	5.3	5.4	5.6	5.4	5.3	5.2	5.3
77.5°	4.5	4.7	5.0	5.2	5.4	5.6	5.6	5.5	5.4	5.5	5.6
75°	4.5	4.8	5.1	5.4	5.6	5.6	5.6	5.6	5.6	5.6	5.6
72.5°	4.5	4.8	5.2	5.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6
70°	4.5	4.9	5.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
67.5°	4.5	4.9	5.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
65°	4.5	5.0	5.4	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
62.5°	4.5	5.0	5.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
60°	4.5	5.0	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
57.5°	4.5	5.1	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
55°	4.5	5.1	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
52.5°	4.5	5.2	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
50°	4.5	5.2	5.6	5.6	5.6	5.6	5.6	5.7	5.6	5.6	6.1
47.5°	4.5	5.2	5.6	5.6	5.6	5.6	5.6	5.7	5.6	5.6	6.6
45°	4.5	5.3	5.6	5.6	5.6	5.6	5.7	5.8	5.7	5.9	7.0
42.5°	4.5	5.3	5.6	5.6	5.6	5.6	5.8	5.9	5.7	6.2	7.3
40°	4.5	5.3	5.6	5.6	5.6	5.6	5.9	6.0	5.9	6.5	7.5
37.5°	4.5	5.4	5.6	5.6	5.6	5.6	6.1	6.1	6.2	6.9	7.7
35°	4.5	5.4	5.6	5.6	5.6	5.7	6.2	6.1	6.5	7.4	7.9
32.5°	4.5	5.4	5.6	5.6	5.6	5.8	6.3	6.2	6.8	8.0	8.7
30°	4.5	5.5	5.6	5.6	5.6	5.9	6.4	6.3	7.1	8.7	9.6
27.5°	4.5	5.5	5.6	5.6	5.6	6.0	6.5	6.5	7.5	9.5	10.7
25°	4.5	5.5	5.6	5.6	5.6	6.2	6.5	6.8	8.1	10.4	12.0
22.5°	4.5	5.5	5.6	5.6	5.6	6.3	6.6	7.0	8.7	11.3	14.3
20°	4.5	5.5	5.6	5.6	5.6	6.4	6.7	7.2	9.4	12.3	16.8
17.5°	4.5	5.5	5.6	5.6	5.6	6.4	6.8	7.4	10.1	13.4	19.4
15°	4.5	5.6	5.6	5.6	5.6	6.5	6.9	7.7	10.8	14.5	22.1
12.5°	4.5	5.6	5.6	5.6	5.6	6.6	7.0	8.3	11.8	15.6	24.8
10°	4.5	5.6	5.6	5.6	5.6	6.6	7.2	8.8	13.1	17.9	28.3
7.5°	4.5	5.6	5.6	5.6	5.6	6.7	7.3	9.4	14.4	20.4	33.6
5°	4.5	5.6	5.6	5.6	5.6	6.7	7.5	10.0	15.6	22.9	39.0
2.5°	4.5	5.6	5.6	5.6	5.6	6.7	7.6	10.6	16.7	25.4	44.1
0°	4.5	5.6	5.6	5.6	5.6	6.7	7.8	11.1	17.8	27.8	49.0
-2.5°	4.5	5.6	5.6	5.6	5.6	6.8	8.5	12.6	21.0	33.7	57.8
-5°	4.5	5.6	5.6	5.6	5.6	6.9	9.2	14.1	24.0	39.3	66.1
-7.5°	4.5	5.6	5.6	5.6	5.6	7.0	9.9	15.5	26.7	44.4	73.5
-10°	4.5	5.6	5.6	5.6	5.6	7.1	10.5	16.7	29.1	48.9	80.1
-12.5°	4.5	5.6	5.6	5.6	5.6	7.1	10.9	17.8	31.1	52.8	85.9
-15°	4.5	5.6	5.6	5.6	5.6	7.1	11.3	18.6	33.0	56.5	90.8
-17.5°	4.5	5.6	5.6	5.6	5.6	7.1	11.5	19.5	34.8	59.3	94.4
-20°	4.5	5.5	5.6	5.6	5.6	7.0	11.7	20.4	35.9	61.2	96.6



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.5	5.5	5.6	5.6	5.6	6.9	11.9	21.0	36.3	62.0	97.5
-25°	4.5	5.5	5.6	5.6	5.6	6.9	12.0	21.3	35.9	61.7	96.8
-27.5°	4.5	5.5	5.6	5.6	5.6	6.9	11.8	21.2	34.7	60.6	96.2
-30°	4.5	5.5	5.6	5.6	5.6	6.8	11.3	20.9	34.0	59.2	94.2
-32.5°	4.5	5.5	5.6	5.6	5.7	6.7	10.7	20.4	33.5	56.6	90.5
-35°	4.5	5.5	5.6	5.6	5.8	6.4	10.3	19.5	32.5	52.8	85.2
-37.5°	4.5	5.4	5.6	5.6	5.8	6.2	9.9	18.3	31.0	47.8	76.8
-40°	4.5	5.4	5.6	5.6	5.9	6.3	9.4	16.8	29.1	44.6	68.4
-42.5°	4.5	5.4	5.6	5.6	6.0	6.4	8.8	14.8	26.8	40.9	59.3
-45°	4.5	5.4	5.6	5.6	6.0	6.5	8.0	13.1	24.1	36.7	50.3
-47.5°	4.5	5.4	5.6	5.7	6.0	6.5	7.1	12.0	21.0	32.0	45.0
-50°	4.5	5.4	5.6	5.7	6.1	6.6	7.1	10.7	16.9	27.3	39.1
-52.5°	4.5	5.3	5.6	5.7	6.1	6.7	7.1	9.2	14.2	22.4	32.9
-55°	4.5	5.3	5.6	5.7	6.1	6.7	7.2	7.7	12.2	17.2	27.0
-57.5°	4.5	5.3	5.6	5.7	6.0	6.6	7.3	7.8	10.0	14.2	20.7
-60°	4.5	5.3	5.6	5.7	6.0	6.6	7.4	7.8	8.3	11.8	15.5
-62.5°	4.5	5.3	5.6	5.7	6.0	6.5	7.2	7.8	8.2	9.5	12.9
-65°	4.5	5.3	5.6	5.7	5.9	6.4	7.0	7.7	8.0	8.7	10.3
-67.5°	4.5	5.2	5.6	5.6	5.8	6.3	6.8	7.4	7.8	8.3	9.1
-70°	4.5	5.2	5.6	5.6	5.8	6.1	6.6	7.1	7.5	7.8	8.4
-72.5°	4.5	5.2	5.6	5.6	5.7	6.0	6.4	6.8	7.1	7.4	7.7
-75°	4.5	5.2	5.6	5.5	5.6	5.8	6.2	6.5	6.7	7.0	7.3
-77.5°	4.5	5.2	5.6	5.5	5.5	5.7	5.9	6.1	6.4	6.6	6.8
-80°	4.5	5.1	5.6	5.5	5.4	5.5	5.6	5.8	6.0	6.2	6.4
-82.5°	4.5	5.1	5.6	5.4	5.3	5.3	5.4	5.5	5.6	5.8	5.9
-85°	4.5	5.1	5.6	5.4	5.2	5.1	5.1	5.3	5.4	5.5	5.6
-87.5°	4.5	5.1	5.6	5.4	5.1	5.0	4.8	5.0	5.2	5.4	5.6
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5





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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°	5.3	5.1	4.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.2	3.9	3.6
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.3	4.2	4.1
82.5°	4.8	4.8	4.7	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	5.2	5.1	4.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	5.4	5.1	4.8	4.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5
75°	5.4	5.1	4.9	4.6	4.5	4.5	4.5	4.7	4.9	4.9	4.8
72.5°	5.4	5.2	4.9	4.6	4.7	5.0	5.3	5.5	5.7	5.9	6.1
70°	5.5	5.2	5.1	5.2	5.4	5.7	6.2	6.8	7.4	7.8	8.5
67.5°	5.5	5.4	5.4	5.7	6.0	6.6	7.3	8.7	10.2	11.1	12.0
65°	5.6	5.6	5.7	6.1	6.6	8.0	9.6	11.4	14.1	15.8	16.5
62.5°	5.6	5.7	6.0	6.8	8.3	10.0	12.3	15.4	19.1	21.7	21.8
60°	5.6	5.7	6.6	8.2	10.0	12.1	15.2	19.3	24.8	28.9	26.3
57.5°	5.6	6.2	7.8	9.5	11.4	13.9	17.8	23.1	28.3	33.8	29.0
55°	5.9	7.1	8.7	10.4	12.6	15.3	19.4	23.8	29.5	31.1	25.7
52.5°	6.6	7.9	9.2	11.1	13.5	15.9	18.5	22.4	24.2	24.5	20.4
50°	7.3	8.2	9.5	11.5	13.9	15.6	16.2	18.4	18.6	16.8	14.6
47.5°	7.7	8.6	9.6	11.7	13.9	14.9	14.7	14.1	12.9	11.9	9.3
45°	8.0	8.9	9.8	12.0	13.8	14.2	12.9	10.2	10.6	9.4	8.8
42.5°	8.2	9.2	10.7	12.3	13.5	13.4	11.6	10.7	10.0	9.8	9.5
40°	8.5	9.5	11.7	13.2	13.6	13.2	13.2	12.6	10.8	11.6	11.7
37.5°	8.7	10.6	13.2	15.5	14.0	14.7	15.7	16.0	15.1	14.7	16.3
35°	9.0	11.8	16.2	18.7	17.3	17.8	19.9	20.8	21.0	21.0	22.1
32.5°	9.7	13.0	20.1	22.6	23.2	23.6	25.0	27.2	29.6	30.7	29.4
30°	11.3	16.7	24.7	27.3	30.1	34.3	33.3	35.0	40.5	42.7	44.8
27.5°	13.8	21.4	29.2	33.6	38.8	48.2	51.6	48.1	52.8	57.3	64.0
25°	16.7	33.4	34.2	40.8	52.4	66.7	75.8	79.7	69.3	77.0	95.0
22.5°	23.2	49.1	52.3	48.5	68.2	89.2	107.2	116.8	115.5	108.1	132.2
20°	34.7	65.0	73.4	75.0	90.0	115.1	143.1	159.4	174.9	201.8	272.5
17.5°	48.1	82.6	95.9	109.4	136.6	158.9	182.9	207.1	243.7	323.8	563.6
15°	63.0	101.6	119.3	146.7	187.2	224.6	253.8	275.5	340.2	508.0	932.1
12.5°	78.9	121.6	143.5	186.1	240.6	293.7	335.0	378.8	487.7	817.6	1518.1
10°	95.2	142.2	168.2	227.0	295.7	364.9	418.5	484.5	654.6	1168.1	2157.6
7.5°	113.4	164.1	193.3	268.2	351.5	437.1	503.1	590.9	825.0	1522.3	2801.1
5°	131.0	187.1	220.1	303.9	398.4	500.5	582.1	696.2	993.5	1865.6	3426.4
2.5°	147.2	209.4	246.3	336.4	437.9	548.7	636.0	759.1	1110.2	2091.2	3886.7
0°	161.4	230.4	271.6	366.2	474.2	593.3	686.8	817.0	1204.4	2227.3	4161.9
-2.5°	166.8	238.5	282.0	373.8	479.3	600.9	696.1	822.1	1233.3	2282.5	4202.4
-5°	169.9	244.7	291.1	378.7	481.0	603.8	701.6	822.0	1226.0	2234.6	4004.8
-7.5°	170.9	248.9	298.9	379.3	471.9	584.4	674.2	778.8	1129.4	2037.1	3579.0
-10°	169.9	248.3	296.6	365.3	448.4	550.3	637.4	731.7	1018.0	1789.3	3105.3
-12.5°	166.8	243.8	292.1	350.6	423.9	513.8	598.8	681.5	894.3	1494.3	2617.5
-15°	162.6	238.4	287.5	335.6	399.4	475.3	559.0	628.7	765.5	1179.5	2133.3
-17.5°	157.6	232.4	282.8	320.8	375.3	435.6	520.0	584.7	670.5	978.9	1743.8
-20°	152.2	226.1	278.5	306.8	352.9	405.4	482.5	548.3	620.9	820.7	1326.0



REPORT NUMBER: P731344 (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°	146.4	219.6	272.1	299.0	338.2	384.6	444.8	509.7	570.4	646.1	971.4
-25°	143.6	210.2	262.6	293.7	324.5	364.4	408.4	469.2	523.4	596.2	783.9
-27.5°	142.2	201.3	251.5	287.7	311.1	346.0	382.4	429.4	491.4	555.8	623.8
-30°	138.9	188.1	240.0	279.4	302.5	331.0	361.5	401.4	460.6	520.0	580.1
-32.5°	130.7	174.0	225.2	266.1	294.7	316.8	346.5	383.1	430.7	485.2	539.1
-35°	120.2	161.7	208.5	252.8	285.8	307.3	334.2	365.7	402.9	451.7	509.4
-37.5°	109.7	148.1	191.0	236.9	271.4	299.7	321.2	349.8	382.1	420.8	477.6
-40°	97.9	133.1	174.2	217.3	257.6	288.7	312.6	334.2	362.2	400.2	440.8
-42.5°	85.3	118.8	156.4	196.8	236.9	272.5	302.8	323.2	346.9	379.9	417.0
-45°	74.6	103.2	137.6	174.8	212.6	251.7	284.0	313.7	335.3	360.3	393.3
-47.5°	63.3	87.5	118.8	151.4	186.9	223.6	261.4	292.8	323.4	346.2	369.5
-50°	52.7	74.4	98.4	128.6	160.0	194.2	229.4	266.6	298.7	328.2	353.7
-52.5°	45.5	60.6	81.9	105.7	134.0	163.6	196.6	230.8	266.0	299.6	326.0
-55°	37.8	50.6	65.6	85.8	108.6	134.7	163.0	194.4	225.5	258.4	288.6
-57.5°	30.3	41.3	53.0	67.2	86.3	106.8	131.8	157.9	186.4	214.5	238.5
-60°	23.0	32.5	42.9	53.5	65.2	83.0	101.2	123.2	147.4	170.8	191.9
-62.5°	16.2	24.0	33.0	42.5	52.0	61.3	75.8	92.3	108.8	128.5	147.0
-65°	13.4	16.7	23.4	31.7	40.3	48.9	57.3	65.4	79.1	93.0	105.9
-67.5°	10.6	13.6	16.7	20.8	28.4	36.0	44.0	51.4	58.7	65.7	73.8
-70°	9.4	10.6	13.0	15.8	18.7	22.5	29.3	36.2	43.4	50.5	56.7
-72.5°	8.5	9.7	10.8	11.9	14.2	16.6	19.0	21.3	25.8	31.9	38.2
-75°	7.8	8.7	9.7	10.7	11.7	12.7	13.9	16.0	18.0	20.1	22.2
-77.5°	7.1	7.7	8.5	9.4	10.3	11.0	11.8	12.8	13.7	14.7	15.8
-80°	6.5	6.7	7.1	7.6	8.3	9.1	9.8	10.5	11.1	11.8	12.6
-82.5°	6.0	6.1	6.3	6.4	6.7	7.1	7.6	8.2	8.5	8.9	9.3
-85°	5.6	5.6	5.7	5.8	5.9	6.1	6.3	6.5	6.6	6.8	6.9
-87.5°	5.5	5.3	5.2	5.1	5.2	5.2	5.2	5.3	5.3	5.3	5.4
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.2	3.9	3.6



REPORT NUMBER: P731344 (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°	4.5	5.1	5.6	6.1	6.7	7.2	7.8	8.4	8.9	9.5	10.0
87.5°	3.3	3.3	3.3	3.3	3.3	3.0	2.8	2.5	2.2	1.9	1.7
85°	4.1	3.9	3.7	3.5	3.3	3.0	2.8	2.5	2.2	1.9	1.7
82.5°	4.5	4.2	3.9	3.6	3.3	3.0	2.8	2.5	2.2	1.9	1.7
80°	4.5	4.2	3.9	3.6	3.3	3.1	2.8	2.5	2.2	1.9	1.7
77.5°	4.5	4.3	4.0	3.7	3.4	3.1	2.8	2.5	2.2	2.2	2.2
75°	4.6	4.4	4.3	4.2	3.9	3.7	3.6	3.3	3.1	2.9	2.7
72.5°	6.2	6.2	6.0	5.9	5.5	5.2	5.0	4.7	4.3	4.1	3.8
70°	9.1	9.5	9.2	8.6	7.6	6.8	6.4	6.0	5.5	5.0	4.5
67.5°	12.7	12.7	11.8	10.6	9.0	7.6	7.0	6.4	5.9	5.5	5.5
65°	16.4	15.4	13.8	11.9	9.8	7.7	7.1	6.5	5.9	5.6	5.6
62.5°	20.6	17.2	13.8	11.4	9.4	7.7	6.9	6.1	5.3	4.8	4.7
60°	22.1	16.4	11.8	9.8	8.2	6.9	6.0	5.4	4.8	4.5	4.5
57.5°	21.4	14.6	9.5	7.9	6.7	5.9	5.3	4.7	4.2	3.7	3.6
55°	18.2	11.9	7.2	6.2	5.5	4.9	4.4	4.0	3.7	3.3	3.3
52.5°	13.4	9.2	6.4	5.4	5.1	4.8	4.5	4.3	4.2	4.1	4.0
50°	9.8	7.1	6.1	5.5	5.3	5.3	5.5	5.4	5.4	5.2	5.1
47.5°	8.0	7.0	6.3	5.6	5.8	6.3	6.5	6.5	6.5	6.3	6.2
45°	7.7	7.1	6.8	7.2	7.5	7.8	7.8	7.7	8.0	8.1	8.0
42.5°	8.5	8.6	9.3	9.8	9.4	10.1	10.7	10.7	11.2	11.6	11.6
40°	12.0	11.7	13.4	13.9	14.2	14.8	16.7	16.5	17.4	19.7	20.2
37.5°	17.2	18.1	19.3	20.4	23.3	25.2	29.0	31.9	33.5	38.0	41.5
35°	24.3	26.7	27.3	33.2	39.3	45.1	50.2	56.5	59.2	69.1	76.0
32.5°	34.4	39.4	46.1	55.9	67.4	81.1	80.5	101.4	108.9	129.3	152.7
30°	48.1	62.0	84.3	99.7	128.0	150.3	161.5	194.1	237.9	279.7	336.7
27.5°	78.1	107.6	147.8	200.9	228.5	262.0	312.8	351.8	451.7	547.1	617.2
25°	134.4	196.2	272.1	350.4	399.5	443.4	536.2	604.3	745.9	852.3	1004.0
22.5°	257.0	389.0	485.1	543.3	648.5	786.1	853.0	1040.1	1250.2	1518.4	1740.0
20°	433.0	640.8	854.9	985.6	1105.8	1409.7	1542.9	1893.4	2339.9	2844.6	3265.3
17.5°	847.4	1037.1	1473.0	1897.7	2217.2	2517.3	3359.4	3960.9	5128.5	6557.5	7216.6
15°	1520.5	2050.9	2559.5	3329.9	4145.2	5052.3	6373.8	8655.3	11520.9	14645.7	18025.5
12.5°	2465.0	3433.2	4343.0	5312.7	6480.0	8708.7	11721.7	15706.5	20855.5	26379.9	32758.6
10°	3526.0	4999.5	6328.4	7792.6	9865.0	13176.1	17642.0	23789.2	32958.8	42331.7	50461.9
7.5°	4476.2	6260.8	8063.4	10182.6	13467.6	18196.6	24621.8	34219.8	46194.3	57793.5	67683.6
5°	5386.8	7471.5	9526.2	12052.0	16192.2	22364.0	30679.4	43846.8	58984.7	71854.8	82693.9
2.5°	6096.3	8418.9	10770.2	13740.7	18464.3	25486.5	34931.2	50868.5	69139.2	83412.8	95806.7
0°	6502.7	8730.0	11282.3	14360.0	19795.3	27444.5	37130.6	54100.9	72296.7	88158.9	100271.0
-2.5°	6423.1	8757.0	11366.3	14479.9	19631.7	26975.6	36524.0	52712.4	70822.8	85122.4	96858.8
-5°	6017.6	8153.0	10453.4	13185.1	17730.9	24422.7	33797.9	49010.6	65818.0	80121.0	92049.3
-7.5°	5385.3	7273.6	9276.2	11653.8	15498.3	21321.1	29379.7	41224.6	56116.1	69070.2	78010.6
-10°	4695.2	6356.7	8163.9	10315.5	13347.8	17912.5	24018.4	32574.9	44754.3	55548.5	63841.5
-12.5°	4040.9	5551.3	7123.5	8920.0	11215.2	14810.5	19451.1	25839.3	33690.4	42563.4	51034.2
-15°	3413.3	4739.8	6111.7	7774.7	9770.7	12210.0	15329.7	19627.7	24785.8	30601.4	36874.9
-17.5°	2815.9	3980.6	5271.4	6723.5	8372.9	10236.5	12852.9	15800.2	19074.8	22864.0	26456.6
-20°	2209.1	3285.3	4456.5	5749.3	7229.1	8928.1	10789.8	13003.7	15372.7	17961.7	20649.2



REPORT NUMBER: P731344 (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°	1686.1	2603.1	3627.8	4804.8	6194.1	7691.7	9135.8	10588.9	12341.6	14049.1	15763.9
-25°	1180.7	1907.9	2864.7	3989.8	5169.5	6421.1	7492.9	8517.1	9734.3	10829.0	11968.9
-27.5°	868.4	1368.0	2159.3	3157.1	4215.1	5073.6	5975.9	6816.0	7697.4	8392.2	9195.1
-30°	662.2	949.9	1537.8	2316.2	3165.0	3913.1	4609.5	5370.3	6094.9	6698.1	7202.9
-32.5°	603.9	713.5	1011.2	1553.4	2167.0	2830.8	3433.3	4095.5	4703.4	5205.1	5606.9
-35°	567.6	627.0	713.8	987.5	1347.3	1871.3	2374.1	2916.4	3420.3	3834.2	4166.9
-37.5°	536.6	588.8	639.9	691.3	889.5	1110.6	1473.4	1866.0	2206.4	2584.8	2880.2
-40°	498.0	556.6	598.0	640.2	687.9	743.1	934.6	1106.5	1298.9	1566.2	1787.4
-42.5°	455.7	505.2	556.7	598.1	634.8	673.9	717.2	760.2	848.7	961.0	1052.4
-45°	428.0	460.6	498.0	545.0	587.9	620.4	652.7	683.9	713.5	740.0	762.3
-47.5°	398.1	425.8	456.1	488.4	520.2	556.3	590.2	618.5	641.0	662.4	681.5
-50°	371.5	391.9	417.6	442.7	467.7	493.3	518.7	540.5	562.2	581.7	600.7
-52.5°	350.0	367.2	384.0	400.8	421.2	441.0	459.7	476.5	491.9	505.3	519.3
-55°	313.7	335.5	357.0	372.0	384.8	397.2	409.5	423.5	435.7	446.1	456.0
-57.5°	264.5	290.8	314.7	332.3	349.0	364.6	375.5	383.5	391.2	398.6	405.2
-60°	212.3	232.0	255.0	277.5	298.2	317.0	329.2	339.5	348.3	355.6	362.1
-62.5°	164.1	180.9	199.7	217.9	234.6	251.2	267.3	281.3	293.4	303.6	312.0
-65°	119.5	134.2	150.2	165.6	180.3	194.9	208.2	220.4	231.4	241.3	250.4
-67.5°	85.1	95.9	107.4	117.9	129.6	142.4	155.0	166.3	176.3	184.2	190.1
-70°	62.6	68.7	76.3	85.3	95.0	104.1	113.2	121.9	130.2	137.3	143.7
-72.5°	44.4	50.8	56.8	62.5	68.5	74.5	80.7	87.1	93.6	99.1	103.8
-75°	24.4	27.5	32.7	37.6	42.5	47.1	51.2	54.7	57.8	60.4	62.7
-77.5°	17.3	19.4	21.5	23.6	25.6	28.0	30.6	33.1	35.6	37.6	39.5
-80°	13.4	14.5	15.8	17.1	18.5	20.1	21.9	23.6	25.4	26.6	27.8
-82.5°	9.8	10.6	11.5	12.4	13.2	14.2	15.3	16.3	17.3	18.0	18.7
-85°	7.0	7.6	8.1	8.7	9.4	10.3	11.3	12.2	13.1	13.8	14.4
-87.5°	5.4	5.7	6.1	6.4	6.7	7.5	8.3	9.1	10.0	10.3	10.5
-90°	3.3	3.3	3.3	3.3	3.3	3.0	2.8	2.5	2.2	1.9	1.7



REPORT NUMBER: P731344 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	10.5	11.1	11.1	11.1	11.1	11.1	10.5	10.0	9.5	8.9	8.4
87.5°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.5
85°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.5
82.5°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.5
80°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.5
77.5°	2.2	2.2	1.7	1.1	1.7	2.2	2.2	2.2	2.2	2.2	2.5
75°	2.5	2.2	1.7	1.1	1.7	2.2	2.5	2.7	2.9	3.1	3.3
72.5°	3.6	3.3	3.3	3.3	3.3	3.3	3.6	3.8	4.1	4.3	4.7
70°	4.0	3.4	3.3	3.3	3.3	3.4	4.0	4.5	5.0	5.5	6.0
67.5°	5.5	5.5	5.6	5.6	5.6	5.5	5.5	5.5	5.5	5.9	6.4
65°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.9	6.5
62.5°	4.6	4.5	4.5	4.5	4.5	4.5	4.6	4.7	4.8	5.3	6.1
60°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.8	5.4
57.5°	3.4	3.4	3.3	3.3	3.3	3.4	3.4	3.6	3.7	4.2	4.7
55°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.7	4.0
52.5°	3.8	3.4	3.3	3.3	3.3	3.4	3.8	4.0	4.1	4.2	4.3
50°	4.8	4.6	4.5	4.5	4.5	4.6	4.8	5.1	5.2	5.4	5.4
47.5°	6.0	5.7	5.6	5.6	5.6	5.7	6.0	6.2	6.3	6.5	6.5
45°	7.6	7.0	6.7	6.7	6.7	7.0	7.6	8.0	8.1	8.0	7.7
42.5°	11.5	11.2	11.0	11.1	11.0	11.2	11.5	11.6	11.6	11.2	10.7
40°	21.2	21.7	22.0	22.3	22.0	21.7	21.2	20.2	19.7	17.4	16.5
37.5°	43.4	42.6	40.7	41.2	40.7	42.6	43.4	41.5	38.0	33.5	31.9
35°	80.5	85.4	88.8	91.3	88.8	85.4	80.5	76.0	69.1	59.2	56.5
32.5°	161.3	168.0	166.0	162.5	166.0	168.0	161.3	152.7	129.3	108.9	101.4
30°	370.3	389.6	384.4	361.8	384.4	389.6	370.3	336.7	279.7	237.9	194.1
27.5°	667.6	714.2	744.7	729.1	744.7	714.2	667.6	617.2	547.1	451.7	351.8
25°	1134.9	1225.6	1290.6	1263.4	1290.6	1225.6	1134.9	1004.0	852.3	745.9	604.3
22.5°	2018.0	2166.9	2255.3	2278.5	2255.3	2166.9	2018.0	1740.0	1518.4	1250.2	1040.1
20°	3794.5	3913.3	3936.8	3878.0	3936.8	3913.3	3794.5	3265.3	2844.6	2339.9	1893.4
17.5°	9130.1	9678.5	9276.5	8854.7	9276.5	9678.5	9130.1	7216.6	6557.5	5128.5	3960.9
15°	20885.6	23201.3	24520.6	24789.8	24520.6	23201.3	20885.6	18025.5	14645.7	11520.9	8655.3
12.5°	36801.6	40533.6	42073.7	41929.8	42073.7	40533.6	36801.6	32758.6	26379.9	20855.5	15706.5
10°	55677.1	59667.0	63100.0	63134.8	63100.0	59667.0	55677.1	50461.9	42331.7	32958.8	23789.2
7.5°	74548.3	79149.7	82379.4	83300.8	82379.4	79149.7	74548.3	67683.6	57793.5	46194.3	34219.8
5°	91068.8	96765.6	99972.0	100951.1	99972.0	96765.6	91068.8	82693.9	71854.8	58984.7	43846.8
2.5°	105593.6	112572.5	116089.1	116635.7	116089.1	112572.5	105593.6	95806.7	83412.8	69139.2	50868.5
0°	109589.9	115810.9	120365.2	121986.4	120365.2	115810.9	109589.9	100271.0	88158.9	72296.7	54100.9
-2.5°	105650.1	111092.8	113807.2	114939.3	113807.2	111092.8	105650.1	96858.8	85122.4	70822.8	52712.4
-5°	99422.6	104501.9	107958.9	108759.5	107958.9	104501.9	99422.6	92049.3	80121.0	65818.0	49010.6
-7.5°	83907.3	88906.8	90460.1	92221.1	90460.1	88906.8	83907.3	78010.6	69070.2	56116.1	41224.6
-10°	70106.2	73995.5	75065.2	76312.7	75065.2	73995.5	70106.2	63841.5	55548.5	44754.3	32574.9
-12.5°	58006.9	61859.3	63603.4	65096.0	63603.4	61859.3	58006.9	51034.2	42563.4	33690.4	25839.3
-15°	42497.9	46118.7	47369.5	48177.0	47369.5	46118.7	42497.9	36874.9	30601.4	24785.8	19627.7
-17.5°	30784.7	33542.3	35181.1	36131.1	35181.1	33542.3	30784.7	26456.6	22864.0	19074.8	15800.2
-20°	23011.5	24591.8	25861.2	26000.8	25861.2	24591.8	23011.5	20649.2	17961.7	15372.7	13003.7



REPORT NUMBER: P731344 (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°	17200.7	18142.0	18726.4	18691.1	18726.4	18142.0	17200.7	15763.9	14049.1	12341.6	10588.9
-25°	12838.3	13471.1	13873.6	13946.0	13873.6	13471.1	12838.3	11968.9	10829.0	9734.3	8517.1
-27.5°	9769.9	10215.5	10446.4	10458.6	10446.4	10215.5	9769.9	9195.1	8392.2	7697.4	6816.0
-30°	7569.3	7940.4	8186.5	8374.9	8186.5	7940.4	7569.3	7202.9	6698.1	6094.9	5370.3
-32.5°	5944.6	6261.4	6476.2	6604.0	6476.2	6261.4	5944.6	5606.9	5205.1	4703.4	4095.5
-35°	4456.7	4710.3	4862.1	4824.2	4862.1	4710.3	4456.7	4166.9	3834.2	3420.3	2916.4
-37.5°	3140.4	3355.5	3508.5	3605.3	3508.5	3355.5	3140.4	2880.2	2584.8	2206.4	1866.0
-40°	1978.8	2127.6	2233.4	2300.8	2233.4	2127.6	1978.8	1787.4	1566.2	1298.9	1106.5
-42.5°	1126.9	1182.5	1220.0	1240.0	1220.0	1182.5	1126.9	1052.4	961.0	848.7	760.2
-45°	779.5	793.3	803.4	809.2	803.4	793.3	779.5	762.3	740.0	713.5	683.9
-47.5°	696.5	707.9	715.3	719.1	715.3	707.9	696.5	681.5	662.4	641.0	618.5
-50°	617.9	631.8	640.3	643.4	640.3	631.8	617.9	600.7	581.7	562.2	540.5
-52.5°	532.5	543.8	551.4	555.4	551.4	543.8	532.5	519.3	505.3	491.9	476.5
-55°	464.6	471.8	475.5	476.4	475.5	471.8	464.6	456.0	446.1	435.7	423.5
-57.5°	410.9	415.5	419.2	421.9	419.2	415.5	410.9	405.2	398.6	391.2	383.5
-60°	367.3	371.3	373.4	374.0	373.4	371.3	367.3	362.1	355.6	348.3	339.5
-62.5°	318.5	323.2	326.9	329.5	326.9	323.2	318.5	312.0	303.6	293.4	281.3
-65°	258.6	265.9	269.7	271.6	269.7	265.9	258.6	250.4	241.3	231.4	220.4
-67.5°	194.9	198.6	199.5	199.2	199.5	198.6	194.9	190.1	184.2	176.3	166.3
-70°	149.6	155.1	157.1	158.1	157.1	155.1	149.6	143.7	137.3	130.2	121.9
-72.5°	108.2	112.0	114.3	115.8	114.3	112.0	108.2	103.8	99.1	93.6	87.1
-75°	64.6	66.2	67.2	67.9	67.2	66.2	64.6	62.7	60.4	57.8	54.7
-77.5°	41.3	43.1	43.9	44.5	43.9	43.1	41.3	39.5	37.6	35.6	33.1
-80°	28.9	29.9	30.1	30.1	30.1	29.9	28.9	27.8	26.6	25.4	23.6
-82.5°	19.3	19.9	20.0	20.0	20.0	19.9	19.3	18.7	18.0	17.3	16.3
-85°	15.0	15.6	15.6	15.6	15.6	15.6	15.0	14.4	13.8	13.1	12.2
-87.5°	10.8	11.1	11.6	12.2	11.6	11.1	10.8	10.5	10.3	10.0	9.1
-90°	1.4	1.1	0.6	0.0	0.6	1.1	1.4	1.7	1.9	2.2	2.5



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	7.8	7.2	6.7	6.1	5.6	5.1	4.5	4.5	4.5	4.5	4.5
87.5°	2.8	3.0	3.3	3.3	3.3	3.3	3.3	3.6	3.9	4.2	4.5
85°	2.8	3.0	3.3	3.5	3.7	3.9	4.1	4.1	4.2	4.3	4.5
82.5°	2.8	3.0	3.3	3.6	3.9	4.2	4.5	4.5	4.5	4.5	4.5
80°	2.8	3.1	3.3	3.6	3.9	4.2	4.5	4.5	4.5	4.5	4.5
77.5°	2.8	3.1	3.4	3.7	4.0	4.3	4.5	4.5	4.5	4.5	4.5
75°	3.6	3.7	3.9	4.2	4.3	4.4	4.6	4.8	4.9	4.9	4.7
72.5°	5.0	5.2	5.5	5.9	6.0	6.2	6.2	6.1	5.9	5.7	5.5
70°	6.4	6.8	7.6	8.6	9.2	9.5	9.1	8.5	7.8	7.4	6.8
67.5°	7.0	7.6	9.0	10.6	11.8	12.7	12.7	12.0	11.1	10.2	8.7
65°	7.1	7.7	9.8	11.9	13.8	15.4	16.4	16.5	15.8	14.1	11.4
62.5°	6.9	7.7	9.4	11.4	13.8	17.2	20.6	21.8	21.7	19.1	15.4
60°	6.0	6.9	8.2	9.8	11.8	16.4	22.1	26.3	28.9	24.8	19.3
57.5°	5.3	5.9	6.7	7.9	9.5	14.6	21.4	29.0	33.8	28.3	23.1
55°	4.4	4.9	5.5	6.2	7.2	11.9	18.2	25.7	31.1	29.5	23.8
52.5°	4.5	4.8	5.1	5.4	6.4	9.2	13.4	20.4	24.5	24.2	22.4
50°	5.5	5.3	5.3	5.5	6.1	7.1	9.8	14.6	16.8	18.6	18.4
47.5°	6.5	6.3	5.8	5.6	6.3	7.0	8.0	9.3	11.9	12.9	14.1
45°	7.8	7.8	7.5	7.2	6.8	7.1	7.7	8.8	9.4	10.6	10.2
42.5°	10.7	10.1	9.4	9.8	9.3	8.6	8.5	9.5	9.8	10.0	10.7
40°	16.7	14.8	14.2	13.9	13.4	11.7	12.0	11.7	11.6	10.8	12.6
37.5°	29.0	25.2	23.3	20.4	19.3	18.1	17.2	16.3	14.7	15.1	16.0
35°	50.2	45.1	39.3	33.2	27.3	26.7	24.3	22.1	21.0	21.0	20.8
32.5°	80.5	81.1	67.4	55.9	46.1	39.4	34.4	29.4	30.7	29.6	27.2
30°	161.5	150.3	128.0	99.7	84.3	62.0	48.1	44.8	42.7	40.5	35.0
27.5°	312.8	262.0	228.5	200.9	147.8	107.6	78.1	64.0	57.3	52.8	48.1
25°	536.2	443.4	399.5	350.4	272.1	196.2	134.4	95.0	77.0	69.3	79.7
22.5°	853.0	786.1	648.5	543.3	485.1	389.0	257.0	132.2	108.1	115.5	116.8
20°	1542.9	1409.7	1105.8	985.6	854.9	640.8	433.0	272.5	201.8	174.9	159.4
17.5°	3359.4	2517.3	2217.2	1897.7	1473.0	1037.1	847.4	563.6	323.8	243.7	207.1
15°	6373.8	5052.3	4145.2	3329.9	2559.5	2050.9	1520.5	932.1	508.0	340.2	275.5
12.5°	11721.7	8708.7	6480.0	5312.7	4343.0	3433.2	2465.0	1518.1	817.6	487.7	378.8
10°	17642.0	13176.1	9865.0	7792.6	6328.4	4999.5	3526.0	2157.6	1168.1	654.6	484.5
7.5°	24621.8	18196.6	13467.6	10182.6	8063.4	6260.8	4476.2	2801.1	1522.3	825.0	590.9
5°	30679.4	22364.0	16192.2	12052.0	9526.2	7471.5	5386.8	3426.4	1865.6	993.5	696.2
2.5°	34931.2	25486.5	18464.3	13740.7	10770.2	8418.9	6096.3	3886.7	2091.2	1110.2	759.1
0°	37130.6	27444.5	19795.3	14360.0	11282.3	8730.0	6502.7	4161.9	2227.3	1204.4	817.0
-2.5°	36524.0	26975.6	19631.7	14479.9	11366.3	8757.0	6423.1	4202.4	2282.5	1233.3	822.1
-5°	33797.9	24422.7	17730.9	13185.1	10453.4	8153.0	6017.6	4004.8	2234.6	1226.0	822.0
-7.5°	29379.7	21321.1	15498.3	11653.8	9276.2	7273.6	5385.3	3579.0	2037.1	1129.4	778.8
-10°	24018.4	17912.5	13347.8	10315.5	8163.9	6356.7	4695.2	3105.3	1789.3	1018.0	731.7
-12.5°	19451.1	14810.5	11215.2	8920.0	7123.5	5551.3	4040.9	2617.5	1494.3	894.3	681.5
-15°	15329.7	12210.0	9770.7	7774.7	6111.7	4739.8	3413.3	2133.3	1179.5	765.5	628.7
-17.5°	12852.9	10236.5	8372.9	6723.5	5271.4	3980.6	2815.9	1743.8	978.9	670.5	584.7
-20°	10789.8	8928.1	7229.1	5749.3	4456.5	3285.3	2209.1	1326.0	820.7	620.9	548.3



REPORT NUMBER: P731344 (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°	9135.8	7691.7	6194.1	4804.8	3627.8	2603.1	1686.1	971.4	646.1	570.4	509.7
-25°	7492.9	6421.1	5169.5	3989.8	2864.7	1907.9	1180.7	783.9	596.2	523.4	469.2
-27.5°	5975.9	5073.6	4215.1	3157.1	2159.3	1368.0	868.4	623.8	555.8	491.4	429.4
-30°	4609.5	3913.1	3165.0	2316.2	1537.8	949.9	662.2	580.1	520.0	460.6	401.4
-32.5°	3433.3	2830.8	2167.0	1553.4	1011.2	713.5	603.9	539.1	485.2	430.7	383.1
-35°	2374.1	1871.3	1347.3	987.5	713.8	627.0	567.6	509.4	451.7	402.9	365.7
-37.5°	1473.4	1110.6	889.5	691.3	639.9	588.8	536.6	477.6	420.8	382.1	349.8
-40°	934.6	743.1	687.9	640.2	598.0	556.6	498.0	440.8	400.2	362.2	334.2
-42.5°	717.2	673.9	634.8	598.1	556.7	505.2	455.7	417.0	379.9	346.9	323.2
-45°	652.7	620.4	587.9	545.0	498.0	460.6	428.0	393.3	360.3	335.3	313.7
-47.5°	590.2	556.3	520.2	488.4	456.1	425.8	398.1	369.5	346.2	323.4	292.8
-50°	518.7	493.3	467.7	442.7	417.6	391.9	371.5	353.7	328.2	298.7	266.6
-52.5°	459.7	441.0	421.2	400.8	384.0	367.2	350.0	326.0	299.6	266.0	230.8
-55°	409.5	397.2	384.8	372.0	357.0	335.5	313.7	288.6	258.4	225.5	194.4
-57.5°	375.5	364.6	349.0	332.3	314.7	290.8	264.5	238.5	214.5	186.4	157.9
-60°	329.2	317.0	298.2	277.5	255.0	232.0	212.3	191.9	170.8	147.4	123.2
-62.5°	267.3	251.2	234.6	217.9	199.7	180.9	164.1	147.0	128.5	108.8	92.3
-65°	208.2	194.9	180.3	165.6	150.2	134.2	119.5	105.9	93.0	79.1	65.4
-67.5°	155.0	142.4	129.6	117.9	107.4	95.9	85.1	73.8	65.7	58.7	51.4
-70°	113.2	104.1	95.0	85.3	76.3	68.7	62.6	56.7	50.5	43.4	36.2
-72.5°	80.7	74.5	68.5	62.5	56.8	50.8	44.4	38.2	31.9	25.8	21.3
-75°	51.2	47.1	42.5	37.6	32.7	27.5	24.4	22.2	20.1	18.0	16.0
-77.5°	30.6	28.0	25.6	23.6	21.5	19.4	17.3	15.8	14.7	13.7	12.8
-80°	21.9	20.1	18.5	17.1	15.8	14.5	13.4	12.6	11.8	11.1	10.5
-82.5°	15.3	14.2	13.2	12.4	11.5	10.6	9.8	9.3	8.9	8.5	8.2
-85°	11.3	10.3	9.4	8.7	8.1	7.6	7.0	6.9	6.8	6.6	6.5
-87.5°	8.3	7.5	6.7	6.4	6.1	5.7	5.4	5.4	5.3	5.3	5.3
-90°	2.8	3.0	3.3	3.3	3.3	3.3	3.3	3.6	3.9	4.2	4.5





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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°	4.5	4.5	4.5	4.5	4.8	5.1	5.3	5.6	5.3	5.1	4.8
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.7	4.7
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.7	4.9	5.0
82.5°	4.5	4.5	4.5	4.5	4.7	4.8	4.8	4.8	4.9	5.1	5.3
80°	4.5	4.5	4.5	4.5	4.8	5.1	5.2	5.3	5.2	5.3	5.4
77.5°	4.5	4.5	4.5	4.6	4.8	5.1	5.4	5.6	5.5	5.4	5.5
75°	4.5	4.5	4.5	4.6	4.9	5.1	5.4	5.6	5.6	5.6	5.6
72.5°	5.3	5.0	4.7	4.6	4.9	5.2	5.4	5.6	5.6	5.6	5.6
70°	6.2	5.7	5.4	5.2	5.1	5.2	5.5	5.6	5.6	5.6	5.6
67.5°	7.3	6.6	6.0	5.7	5.4	5.4	5.5	5.6	5.6	5.6	5.6
65°	9.6	8.0	6.6	6.1	5.7	5.6	5.6	5.6	5.6	5.6	5.6
62.5°	12.3	10.0	8.3	6.8	6.0	5.7	5.6	5.6	5.6	5.6	5.6
60°	15.2	12.1	10.0	8.2	6.6	5.7	5.6	5.6	5.6	5.6	5.6
57.5°	17.8	13.9	11.4	9.5	7.8	6.2	5.6	5.6	5.6	5.6	5.6
55°	19.4	15.3	12.6	10.4	8.7	7.1	5.9	5.6	5.6	5.6	5.6
52.5°	18.5	15.9	13.5	11.1	9.2	7.9	6.6	5.6	5.6	5.6	5.6
50°	16.2	15.6	13.9	11.5	9.5	8.2	7.3	6.1	5.6	5.6	5.7
47.5°	14.7	14.9	13.9	11.7	9.6	8.6	7.7	6.6	5.6	5.6	5.7
45°	12.9	14.2	13.8	12.0	9.8	8.9	8.0	7.0	5.9	5.7	5.8
42.5°	11.6	13.4	13.5	12.3	10.7	9.2	8.2	7.3	6.2	5.7	5.9
40°	13.2	13.2	13.6	13.2	11.7	9.5	8.5	7.5	6.5	5.9	6.0
37.5°	15.7	14.7	14.0	15.5	13.2	10.6	8.7	7.7	6.9	6.2	6.1
35°	19.9	17.8	17.3	18.7	16.2	11.8	9.0	7.9	7.4	6.5	6.1
32.5°	25.0	23.6	23.2	22.6	20.1	13.0	9.7	8.7	8.0	6.8	6.2
30°	33.3	34.3	30.1	27.3	24.7	16.7	11.3	9.6	8.7	7.1	6.3
27.5°	51.6	48.2	38.8	33.6	29.2	21.4	13.8	10.7	9.5	7.5	6.5
25°	75.8	66.7	52.4	40.8	34.2	33.4	16.7	12.0	10.4	8.1	6.8
22.5°	107.2	89.2	68.2	48.5	52.3	49.1	23.2	14.3	11.3	8.7	7.0
20°	143.1	115.1	90.0	75.0	73.4	65.0	34.7	16.8	12.3	9.4	7.2
17.5°	182.9	158.9	136.6	109.4	95.9	82.6	48.1	19.4	13.4	10.1	7.4
15°	253.8	224.6	187.2	146.7	119.3	101.6	63.0	22.1	14.5	10.8	7.7
12.5°	335.0	293.7	240.6	186.1	143.5	121.6	78.9	24.8	15.6	11.8	8.3
10°	418.5	364.9	295.7	227.0	168.2	142.2	95.2	28.3	17.9	13.1	8.8
7.5°	503.1	437.1	351.5	268.2	193.3	164.1	113.4	33.6	20.4	14.4	9.4
5°	582.1	500.5	398.4	303.9	220.1	187.1	131.0	39.0	22.9	15.6	10.0
2.5°	636.0	548.7	437.9	336.4	246.3	209.4	147.2	44.1	25.4	16.7	10.6
0°	686.8	593.3	474.2	366.2	271.6	230.4	161.4	49.0	27.8	17.8	11.1
-2.5°	696.1	600.9	479.3	373.8	282.0	238.5	166.8	57.8	33.7	21.0	12.6
-5°	701.6	603.8	481.0	378.7	291.1	244.7	169.9	66.1	39.3	24.0	14.1
-7.5°	674.2	584.4	471.9	379.3	298.9	248.9	170.9	73.5	44.4	26.7	15.5
-10°	637.4	550.3	448.4	365.3	296.6	248.3	169.9	80.1	48.9	29.1	16.7
-12.5°	598.8	513.8	423.9	350.6	292.1	243.8	166.8	85.9	52.8	31.1	17.8
-15°	559.0	475.3	399.4	335.6	287.5	238.4	162.6	90.8	56.5	33.0	18.6
-17.5°	520.0	435.6	375.3	320.8	282.8	232.4	157.6	94.4	59.3	34.8	19.5
-20°	482.5	405.4	352.9	306.8	278.5	226.1	152.2	96.6	61.2	35.9	20.4



REPORT NUMBER: P731344 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	444.8	384.6	338.2	299.0	272.1	219.6	146.4	97.5	62.0	36.3	21.0
-25°	408.4	364.4	324.5	293.7	262.6	210.2	143.6	96.8	61.7	35.9	21.3
-27.5°	382.4	346.0	311.1	287.7	251.5	201.3	142.2	96.2	60.6	34.7	21.2
-30°	361.5	331.0	302.5	279.4	240.0	188.1	138.9	94.2	59.2	34.0	20.9
-32.5°	346.5	316.8	294.7	266.1	225.2	174.0	130.7	90.5	56.6	33.5	20.4
-35°	334.2	307.3	285.8	252.8	208.5	161.7	120.2	85.2	52.8	32.5	19.5
-37.5°	321.2	299.7	271.4	236.9	191.0	148.1	109.7	76.8	47.8	31.0	18.3
-40°	312.6	288.7	257.6	217.3	174.2	133.1	97.9	68.4	44.6	29.1	16.8
-42.5°	302.8	272.5	236.9	196.8	156.4	118.8	85.3	59.3	40.9	26.8	14.8
-45°	284.0	251.7	212.6	174.8	137.6	103.2	74.6	50.3	36.7	24.1	13.1
-47.5°	261.4	223.6	186.9	151.4	118.8	87.5	63.3	45.0	32.0	21.0	12.0
-50°	229.4	194.2	160.0	128.6	98.4	74.4	52.7	39.1	27.3	16.9	10.7
-52.5°	196.6	163.6	134.0	105.7	81.9	60.6	45.5	32.9	22.4	14.2	9.2
-55°	163.0	134.7	108.6	85.8	65.6	50.6	37.8	27.0	17.2	12.2	7.7
-57.5°	131.8	106.8	86.3	67.2	53.0	41.3	30.3	20.7	14.2	10.0	7.8
-60°	101.2	83.0	65.2	53.5	42.9	32.5	23.0	15.5	11.8	8.3	7.8
-62.5°	75.8	61.3	52.0	42.5	33.0	24.0	16.2	12.9	9.5	8.2	7.8
-65°	57.3	48.9	40.3	31.7	23.4	16.7	13.4	10.3	8.7	8.0	7.7
-67.5°	44.0	36.0	28.4	20.8	16.7	13.6	10.6	9.1	8.3	7.8	7.4
-70°	29.3	22.5	18.7	15.8	13.0	10.6	9.4	8.4	7.8	7.5	7.1
-72.5°	19.0	16.6	14.2	11.9	10.8	9.7	8.5	7.7	7.4	7.1	6.8
-75°	13.9	12.7	11.7	10.7	9.7	8.7	7.8	7.3	7.0	6.7	6.5
-77.5°	11.8	11.0	10.3	9.4	8.5	7.7	7.1	6.8	6.6	6.4	6.1
-80°	9.8	9.1	8.3	7.6	7.1	6.7	6.5	6.4	6.2	6.0	5.8
-82.5°	7.6	7.1	6.7	6.4	6.3	6.1	6.0	5.9	5.8	5.6	5.5
-85°	6.3	6.1	5.9	5.8	5.7	5.6	5.6	5.6	5.5	5.4	5.3
-87.5°	5.2	5.2	5.2	5.1	5.2	5.3	5.5	5.6	5.4	5.2	5.0
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5



REPORT NUMBER: P731344 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.5	4.8	5.1	5.3	5.6	5.0	4.5
87.5°	4.8	4.7	4.7	4.6	4.6	4.5	4.5
85°	5.1	5.0	4.9	4.8	4.7	4.6	4.5
82.5°	5.4	5.2	5.1	4.9	4.8	4.6	4.5
80°	5.6	5.4	5.3	5.1	4.9	4.7	4.5
77.5°	5.6	5.6	5.4	5.2	5.0	4.7	4.5
75°	5.6	5.6	5.6	5.4	5.1	4.8	4.5
72.5°	5.6	5.6	5.6	5.5	5.2	4.8	4.5
70°	5.6	5.6	5.6	5.6	5.3	4.9	4.5
67.5°	5.6	5.6	5.6	5.6	5.3	4.9	4.5
65°	5.6	5.6	5.6	5.6	5.4	5.0	4.5
62.5°	5.6	5.6	5.6	5.6	5.5	5.0	4.5
60°	5.6	5.6	5.6	5.6	5.6	5.0	4.5
57.5°	5.6	5.6	5.6	5.6	5.6	5.1	4.5
55°	5.6	5.6	5.6	5.6	5.6	5.1	4.5
52.5°	5.6	5.6	5.6	5.6	5.6	5.2	4.5
50°	5.6	5.6	5.6	5.6	5.6	5.2	4.5
47.5°	5.6	5.6	5.6	5.6	5.6	5.2	4.5
45°	5.7	5.6	5.6	5.6	5.6	5.3	4.5
42.5°	5.8	5.6	5.6	5.6	5.6	5.3	4.5
40°	5.9	5.6	5.6	5.6	5.6	5.3	4.5
37.5°	6.1	5.6	5.6	5.6	5.6	5.4	4.5
35°	6.2	5.7	5.6	5.6	5.6	5.4	4.5
32.5°	6.3	5.8	5.6	5.6	5.6	5.4	4.5
30°	6.4	5.9	5.6	5.6	5.6	5.5	4.5
27.5°	6.5	6.0	5.6	5.6	5.6	5.5	4.5
25°	6.5	6.2	5.6	5.6	5.6	5.5	4.5
22.5°	6.6	6.3	5.6	5.6	5.6	5.5	4.5
20°	6.7	6.4	5.6	5.6	5.6	5.5	4.5
17.5°	6.8	6.4	5.6	5.6	5.6	5.5	4.5
15°	6.9	6.5	5.6	5.6	5.6	5.6	4.5
12.5°	7.0	6.6	5.6	5.6	5.6	5.6	4.5
10°	7.2	6.6	5.6	5.6	5.6	5.6	4.5
7.5°	7.3	6.7	5.6	5.6	5.6	5.6	4.5
5°	7.5	6.7	5.6	5.6	5.6	5.6	4.5
2.5°	7.6	6.7	5.6	5.6	5.6	5.6	4.5
0°	7.8	6.7	5.6	5.6	5.6	5.6	4.5
-2.5°	8.5	6.8	5.6	5.6	5.6	5.6	4.5
-5°	9.2	6.9	5.6	5.6	5.6	5.6	4.5
-7.5°	9.9	7.0	5.6	5.6	5.6	5.6	4.5
-10°	10.5	7.1	5.6	5.6	5.6	5.6	4.5
-12.5°	10.9	7.1	5.6	5.6	5.6	5.6	4.5
-15°	11.3	7.1	5.6	5.6	5.6	5.6	4.5
-17.5°	11.5	7.1	5.6	5.6	5.6	5.6	4.5
-20°	11.7	7.0	5.6	5.6	5.6	5.5	4.5



REPORT NUMBER: P731344 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	11.9	6.9	5.6	5.6	5.6	5.5	4.5
-25°	12.0	6.9	5.6	5.6	5.6	5.5	4.5
-27.5°	11.8	6.9	5.6	5.6	5.6	5.5	4.5
-30°	11.3	6.8	5.6	5.6	5.6	5.5	4.5
-32.5°	10.7	6.7	5.7	5.6	5.6	5.5	4.5
-35°	10.3	6.4	5.8	5.6	5.6	5.5	4.5
-37.5°	9.9	6.2	5.8	5.6	5.6	5.4	4.5
-40°	9.4	6.3	5.9	5.6	5.6	5.4	4.5
-42.5°	8.8	6.4	6.0	5.6	5.6	5.4	4.5
-45°	8.0	6.5	6.0	5.6	5.6	5.4	4.5
-47.5°	7.1	6.5	6.0	5.7	5.6	5.4	4.5
-50°	7.1	6.6	6.1	5.7	5.6	5.4	4.5
-52.5°	7.1	6.7	6.1	5.7	5.6	5.3	4.5
-55°	7.2	6.7	6.1	5.7	5.6	5.3	4.5
-57.5°	7.3	6.6	6.0	5.7	5.6	5.3	4.5
-60°	7.4	6.6	6.0	5.7	5.6	5.3	4.5
-62.5°	7.2	6.5	6.0	5.7	5.6	5.3	4.5
-65°	7.0	6.4	5.9	5.7	5.6	5.3	4.5
-67.5°	6.8	6.3	5.8	5.6	5.6	5.2	4.5
-70°	6.6	6.1	5.8	5.6	5.6	5.2	4.5
-72.5°	6.4	6.0	5.7	5.6	5.6	5.2	4.5
-75°	6.2	5.8	5.6	5.5	5.6	5.2	4.5
-77.5°	5.9	5.7	5.5	5.5	5.6	5.2	4.5
-80°	5.6	5.5	5.4	5.5	5.6	5.1	4.5
-82.5°	5.4	5.3	5.3	5.4	5.6	5.1	4.5
-85°	5.1	5.1	5.2	5.4	5.6	5.1	4.5
-87.5°	4.8	5.0	5.1	5.4	5.6	5.1	4.5
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5

(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

