

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: P731343 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-4S-CV2**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731343 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-25)  
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-CV2  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

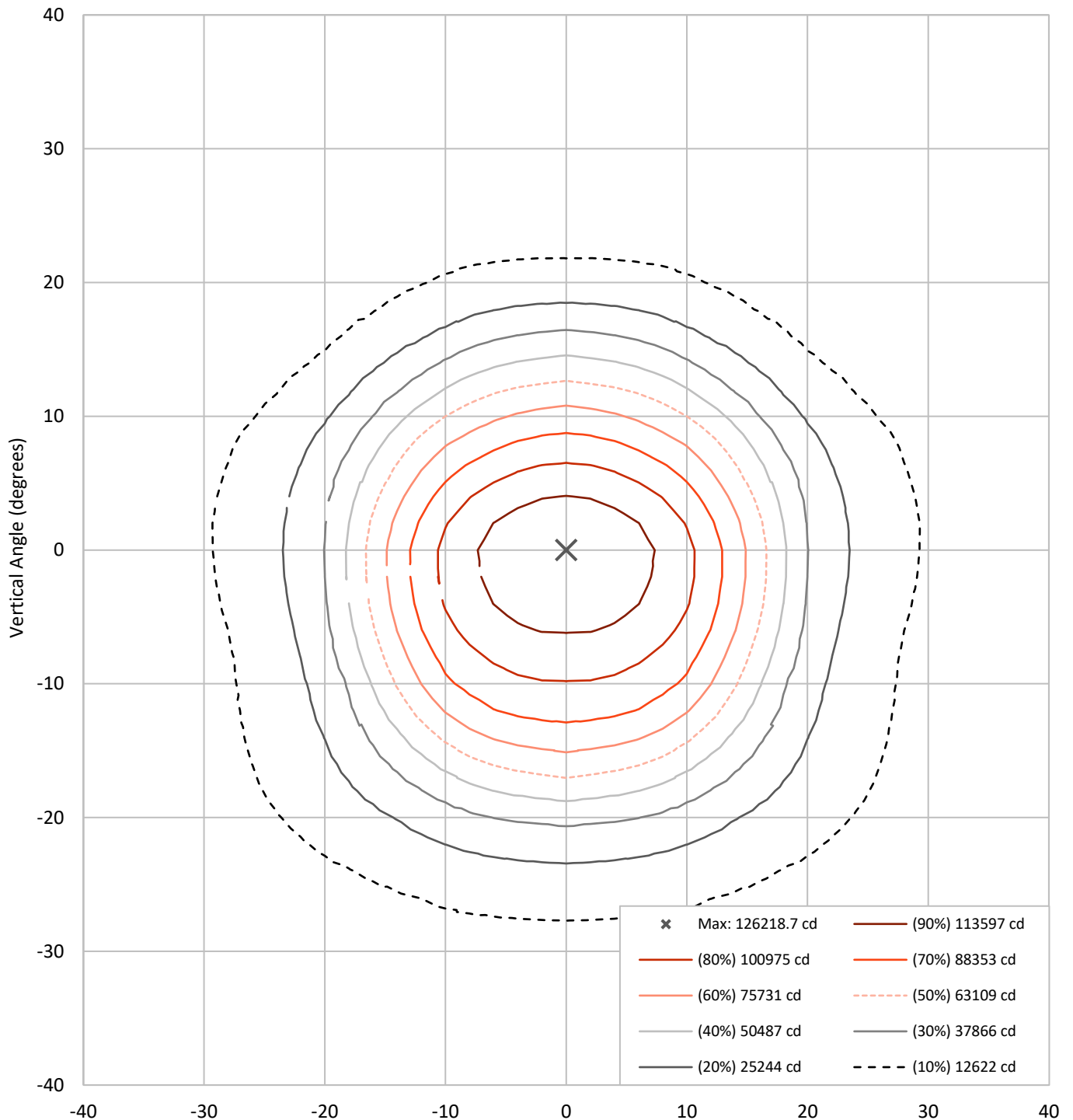
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	40395.7 lumens	Max Intensity:	126218.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	116.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.2°H x 29.7°V	Field Angle (10%):	58.6°H x 49.3°V
Beam Lumens:	22166.4 lumens	Field Lumens:	35515.4 lumens
Beam Efficiency:	54.9%	Field Efficiency:	87.9%

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-40-80-4S-CV2

### Iso-Candela Plot





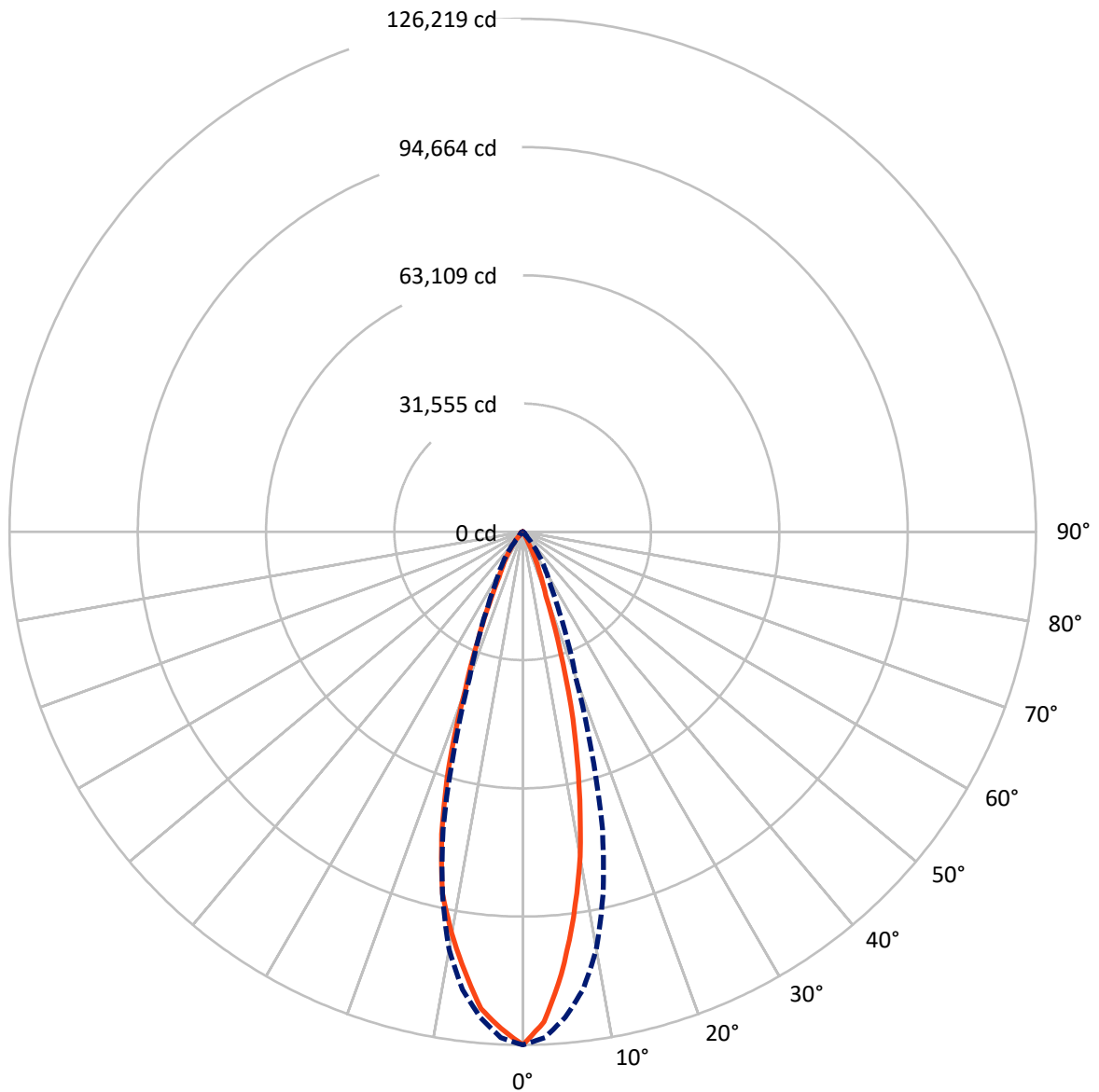
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### Lumen Table

90	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1		
80	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1		
70	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1
60		0.1	0.2	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.2	
50	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.8	0.7	0.5	0.4	0.3	0.2	0.1
40		0.1	0.5	1.0	1.7	3.8	7.6	10.5	10.5	7.6	3.8	1.7	1.0	0.5	
30	0.1	0.2	1.5	4.0	14.8	53.9	127.6	215.8	215.8	127.6	53.9	14.8	4.0	1.5	0.1
20		0.5	3.3	10.6	65.4	226.4	694.8	1312.8	1312.8	694.8	226.4	65.4	10.6	3.3	
10	0.2	0.9	5.6	20.1	152.3	542.5	1799.7	3040.8	3040.8	1799.7	542.5	152.3	20.1	5.6	0.2
0		1.5	7.5	23.8	158.8	559.5	2019.9	3338.4	3338.4	2019.9	559.5	158.8	23.8	7.5	
-10	0.3	1.8	7.7	20.5	123.9	412.4	1206.3	2107.5	2107.5	1206.3	412.4	123.9	20.5	7.7	0.3
-20		1.7	6.6	14.1	53.5	195.7	407.4	609.8	609.8	407.4	195.7	53.5	14.1	6.6	
-30	0.2	1.3	5.0	9.8	18.4	52.9	120.0	169.6	169.6	120.0	52.9	18.4	9.8	5.0	0.2
-40		0.8	3.4	7.4	12.1	18.4	26.9	35.2	35.2	26.9	18.4	12.1	7.4	3.4	
-50	0.1	0.4	1.8	4.9	8.9	12.9	16.6	18.8	18.8	16.6	12.9	8.9	4.9	1.8	0.1
-60		0.2	0.7	2.0	4.3	7.5	10.7	12.6	12.6	10.7	7.5	4.3	2.0	0.7	
-70	0.1	0.4	1.8	4.9	8.9	12.9	16.6	18.8	18.8	16.6	12.9	8.9	4.9	1.8	0.1
-80		0.2	0.7	2.0	4.3	7.5	10.7	12.6	12.6	10.7	7.5	4.3	2.0	0.7	
-90	0.1	0.5	1.6	4.2	6.0	4.2	1.6	0.5	0.1						

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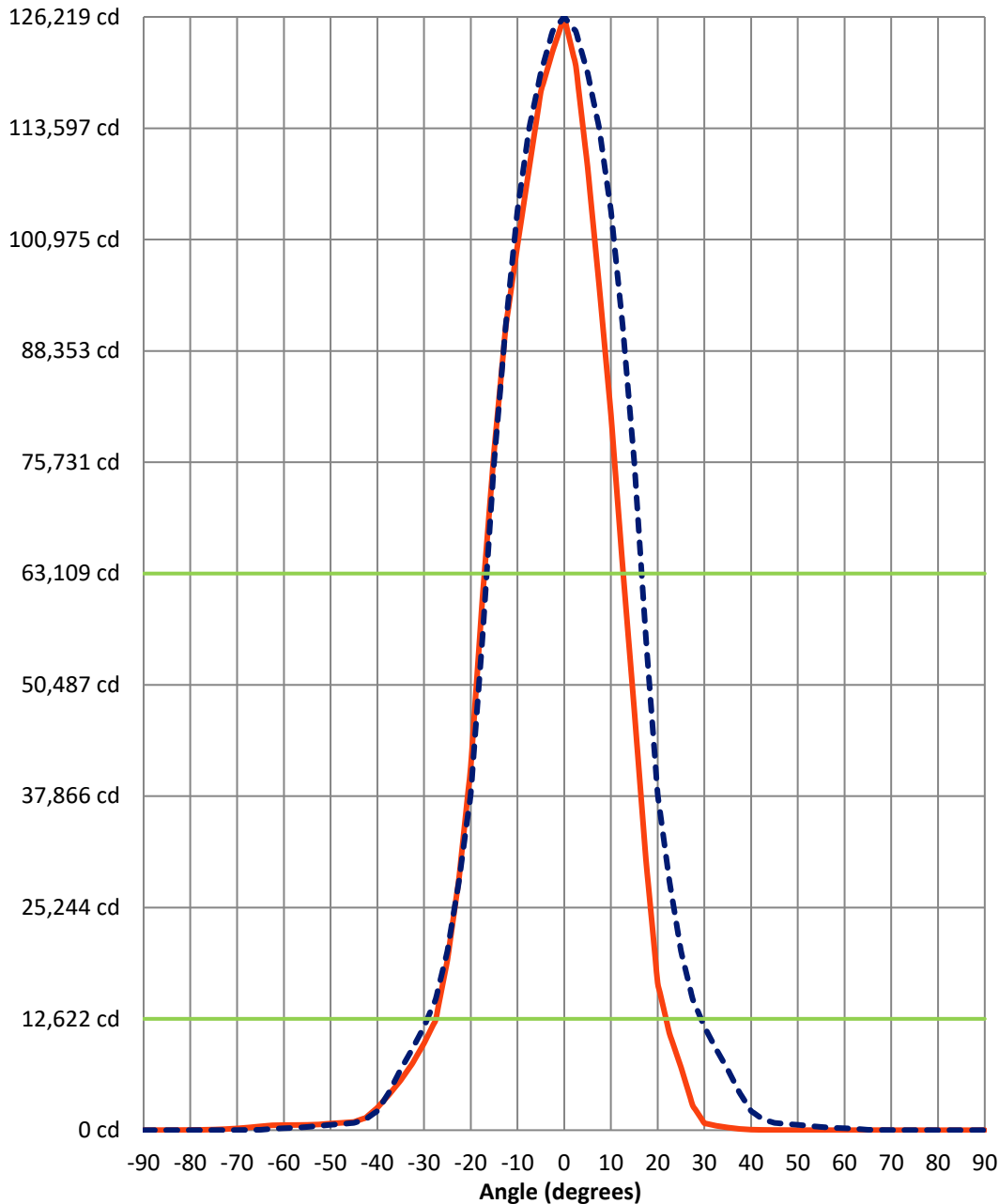
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 33.2°  
 V Angle: 29.7°  
 Lumens: 22166.4  
 Efficiency: 54.9%

**Field:**  
 H Angle: 58.6°  
 V Angle: 49.3°  
 Lumens: 35515.4  
 Efficiency: 87.9%

**Spill:**  
 Lumens: 4880.3  
 Efficiency: 12.1%

— 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	4.5	4.5	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	4.5	4.5	4.5
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.7	4.7	4.7	4.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.6	4.8	4.9	4.9	4.8	4.6
75°	4.5	4.5	4.5	4.5	4.5	4.8	5.1	5.2	5.1	4.9	4.6
72.5°	4.5	4.5	4.5	4.5	4.7	5.0	5.4	5.4	5.1	4.9	4.6
70°	4.5	4.5	4.5	4.5	4.9	5.3	5.6	5.4	5.2	4.9	5.0
67.5°	4.5	4.5	4.5	4.7	5.1	5.5	5.6	5.5	5.2	5.2	5.3
65°	4.5	4.5	4.5	4.8	5.3	5.6	5.6	5.5	5.4	5.4	5.6
62.5°	4.5	4.5	4.5	4.9	5.4	5.6	5.6	5.5	5.5	5.6	5.6
60°	4.5	4.5	4.5	5.0	5.6	5.6	5.6	5.6	5.6	5.6	5.6
57.5°	4.5	4.5	4.6	5.2	5.6	5.6	5.6	5.6	5.6	5.6	5.6
55°	4.5	4.5	4.7	5.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6
52.5°	4.5	4.5	4.7	5.4	5.6	5.6	5.6	5.6	5.6	5.6	5.6
50°	4.5	4.5	4.8	5.5	5.6	5.6	5.6	5.6	5.6	5.6	6.1
47.5°	4.5	4.5	4.9	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.6
45°	4.5	4.5	5.0	5.6	5.6	5.6	5.6	5.6	5.6	5.9	7.0
42.5°	4.5	4.5	5.0	5.6	5.6	5.6	5.6	5.6	5.7	6.2	7.3
40°	4.5	4.5	5.1	5.6	5.6	5.6	5.6	5.7	5.9	6.5	7.5
37.5°	4.5	4.5	5.1	5.6	5.6	5.6	5.6	5.8	6.2	6.9	7.7
35°	4.5	4.5	5.2	5.6	5.6	5.6	5.6	6.0	6.5	7.2	7.9
32.5°	4.5	4.5	5.3	5.6	5.6	5.6	5.6	6.1	6.8	7.6	8.4
30°	4.5	4.5	5.3	5.6	5.6	5.6	5.7	6.3	7.1	7.9	9.1
27.5°	4.5	4.5	5.4	5.6	5.6	5.6	5.9	6.5	7.4	8.2	10.0
25°	4.5	4.5	5.4	5.6	5.6	5.6	6.0	6.8	7.6	8.8	11.1
22.5°	4.5	4.5	5.4	5.6	5.6	5.6	6.1	7.0	7.9	9.5	13.4
20°	4.5	4.5	5.5	5.6	5.6	5.7	6.3	7.2	8.1	10.4	15.8
17.5°	4.5	4.5	5.5	5.6	5.6	5.8	6.4	7.4	8.3	11.3	18.2
15°	4.5	4.5	5.5	5.6	5.6	5.9	6.5	7.6	8.5	12.2	20.6
12.5°	4.5	4.5	5.5	5.6	5.6	6.0	6.6	7.8	9.1	13.2	22.9
10°	4.5	4.5	5.6	5.6	5.6	6.2	6.6	8.0	10.2	15.4	26.1
7.5°	4.5	4.5	5.6	5.6	5.6	6.3	6.7	8.3	11.2	17.7	31.4
5°	4.5	4.5	5.6	5.6	5.6	6.4	6.7	8.5	12.3	20.1	36.7
2.5°	4.5	4.5	5.6	5.6	5.6	6.6	6.7	8.7	13.4	22.3	41.8
0°	4.5	4.5	5.6	5.6	5.6	6.7	6.7	8.9	14.5	24.5	46.7
-2.5°	4.5	4.5	5.6	5.6	5.6	6.7	7.3	10.6	18.7	32.4	60.5
-5°	4.5	4.5	5.6	5.6	5.6	6.7	7.8	12.3	22.6	40.0	73.4
-7.5°	4.5	4.5	5.6	5.6	5.6	6.7	8.4	13.8	26.3	47.0	85.3
-10°	4.5	4.5	5.6	5.6	5.6	6.6	8.8	15.2	29.5	53.2	95.6
-12.5°	4.5	4.5	5.5	5.6	5.6	6.6	9.2	16.3	32.2	58.5	102.5
-15°	4.5	4.5	5.5	5.6	5.6	6.5	9.5	17.2	34.5	62.6	106.9
-17.5°	4.5	4.5	5.5	5.6	5.6	6.4	9.6	18.1	36.3	65.6	109.9
-20°	4.5	4.5	5.5	5.6	5.6	6.4	9.8	19.1	37.4	67.4	111.3



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV2

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.5	4.5	5.4	5.6	5.6	6.3	10.2	19.6	37.6	68.1	111.0
-25°	4.5	4.5	5.4	5.6	5.6	6.4	10.4	19.9	37.0	67.3	109.0
-27.5°	4.5	4.5	5.4	5.6	5.6	6.5	10.4	19.7	35.4	65.7	107.9
-30°	4.5	4.5	5.3	5.6	5.6	6.5	10.1	19.1	34.4	63.9	105.1
-32.5°	4.5	4.5	5.3	5.6	5.7	6.4	9.5	18.7	33.7	60.7	100.4
-35°	4.5	4.5	5.2	5.6	5.7	6.3	9.3	18.0	32.4	56.1	93.7
-37.5°	4.5	4.5	5.1	5.6	5.7	6.2	9.1	17.0	30.5	50.1	83.5
-40°	4.5	4.5	5.1	5.6	5.8	6.2	8.8	15.5	28.0	46.2	73.5
-42.5°	4.5	4.5	5.0	5.6	5.8	6.2	8.4	13.7	25.6	41.8	63.0
-45°	4.5	4.5	5.0	5.6	5.8	6.3	7.8	12.1	23.0	37.0	52.8
-47.5°	4.5	4.5	4.9	5.7	5.9	6.2	7.1	11.3	19.9	31.8	46.9
-50°	4.5	4.5	4.8	5.6	5.9	6.2	6.9	10.2	16.0	27.3	40.7
-52.5°	4.5	4.5	4.7	5.5	5.9	6.2	6.9	8.9	13.6	22.5	34.2
-55°	4.5	4.5	4.7	5.4	6.0	6.2	6.7	7.7	11.8	17.4	28.3
-57.5°	4.5	4.5	4.6	5.3	6.0	6.2	6.6	7.5	9.8	14.3	22.0
-60°	4.5	4.5	4.5	5.2	6.0	6.2	6.5	7.2	8.0	11.7	16.5
-62.5°	4.5	4.5	4.5	5.1	5.9	6.3	6.5	7.0	7.7	9.0	13.2
-65°	4.5	4.5	4.5	5.0	5.7	6.3	6.6	6.8	7.4	8.1	9.7
-67.5°	4.5	4.5	4.5	4.9	5.5	6.2	6.6	6.8	7.1	7.8	8.4
-70°	4.5	4.5	4.5	4.8	5.4	6.0	6.6	6.8	7.0	7.4	8.0
-72.5°	4.5	4.5	4.5	4.7	5.2	5.8	6.4	6.7	6.9	7.2	7.6
-75°	4.5	4.5	4.5	4.7	5.0	5.6	6.1	6.5	6.7	6.9	7.2
-77.5°	4.5	4.5	4.5	4.7	5.0	5.4	5.9	6.1	6.4	6.6	6.8
-80°	4.5	4.5	4.5	4.6	4.9	5.2	5.6	5.8	6.0	6.2	6.4
-82.5°	4.5	4.5	4.5	4.6	4.8	5.0	5.3	5.5	5.6	5.8	5.9
-85°	4.5	4.5	4.5	4.6	4.7	4.9	5.1	5.2	5.3	5.3	5.4
-87.5°	4.5	4.5	4.5	4.5	4.6	4.7	4.8	4.8	4.9	4.9	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





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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°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.2	3.9	3.6
87.5°	4.2	3.9	3.6	3.3	3.3	3.3	3.3	3.3	3.0	2.8	2.5
85°	4.2	3.9	3.7	3.5	3.5	3.5	3.4	3.3	3.2	3.0	3.0
82.5°	4.3	4.2	4.2	4.2	4.1	3.9	3.6	3.3	3.3	3.3	3.3
80°	4.5	4.5	4.5	4.5	4.3	4.0	3.7	3.4	3.3	3.3	3.4
77.5°	4.5	4.5	4.5	4.5	4.3	4.1	4.0	4.0	4.0	3.9	3.7
75°	4.5	4.5	4.6	4.5	4.4	4.4	4.5	4.5	4.3	4.0	3.7
72.5°	4.7	4.8	4.8	4.6	4.5	4.5	4.5	4.5	4.6	4.7	4.6
70°	5.1	5.2	5.0	4.7	4.5	4.7	5.3	5.8	6.2	6.2	6.4
67.5°	5.5	5.3	5.0	4.9	5.4	6.0	6.7	7.6	8.5	8.8	9.3
65°	5.6	5.3	5.3	5.8	6.6	7.4	8.4	9.6	12.0	13.4	14.1
62.5°	5.6	5.5	5.8	6.7	7.8	8.9	10.6	13.3	16.9	19.4	19.5
60°	5.6	5.7	6.5	7.8	8.9	10.4	13.0	17.1	22.5	26.6	24.3
57.5°	5.6	6.2	7.5	8.7	9.9	11.6	15.6	20.9	26.4	32.3	27.6
55°	5.9	7.1	8.3	9.4	11.0	13.1	17.3	22.3	28.4	30.1	24.7
52.5°	6.6	7.9	8.8	10.1	12.1	14.2	17.0	21.4	23.4	23.8	20.5
50°	7.3	8.2	9.2	10.8	12.8	14.5	15.4	18.0	18.7	17.8	16.0
47.5°	7.7	8.6	9.5	11.3	13.2	14.7	14.8	14.9	14.6	14.3	11.8
45°	8.0	8.9	9.8	11.8	13.9	15.2	14.5	12.3	14.1	13.6	13.0
42.5°	8.2	9.2	10.8	12.3	15.1	15.9	14.8	15.3	15.8	16.4	16.7
40°	8.5	9.5	12.2	15.1	16.7	17.1	18.9	20.4	19.7	21.6	22.7
37.5°	8.7	11.0	14.7	20.3	18.5	20.9	24.4	29.9	30.2	28.5	32.7
35°	9.0	12.8	21.0	27.0	25.5	27.0	36.2	43.4	45.7	43.2	45.9
32.5°	10.0	14.7	28.9	35.1	38.6	40.5	50.9	61.9	70.1	71.7	65.0
30°	12.1	21.9	37.9	44.8	55.2	65.2	72.5	85.7	102.7	116.0	121.4
27.5°	14.8	30.6	47.3	59.9	75.7	92.7	105.2	121.8	149.5	173.2	192.8
25°	17.6	42.5	57.8	78.3	101.8	123.8	143.1	170.7	207.4	246.8	315.4
22.5°	24.0	56.0	73.6	98.7	129.6	157.2	189.2	228.5	275.5	329.6	456.8
20°	34.3	69.3	92.6	121.3	159.5	192.2	237.4	287.5	351.6	467.1	683.0
17.5°	45.4	83.7	112.1	148.1	195.5	236.8	287.5	346.1	431.0	615.7	1041.2
15°	56.8	98.7	130.8	176.5	234.8	293.9	355.0	418.9	540.3	826.1	1497.2
12.5°	68.4	114.2	148.4	205.8	276.5	353.4	426.3	507.6	683.1	1187.7	2172.8
10°	79.8	129.7	165.1	235.5	319.5	414.3	497.0	592.7	831.6	1515.3	2776.9
7.5°	98.6	150.0	183.0	264.7	362.8	475.1	566.4	673.9	976.6	1800.9	3333.3
5°	118.4	174.9	211.5	300.4	405.5	529.4	629.1	750.3	1113.9	2041.1	3855.2
2.5°	137.4	198.9	239.2	334.7	445.5	571.5	668.9	793.1	1187.4	2153.4	4177.6
0°	154.7	221.5	266.0	366.2	482.0	608.9	704.6	830.4	1232.2	2175.0	4280.9
-2.5°	175.7	246.4	293.7	391.2	501.9	630.8	727.2	858.7	1278.5	2296.6	4299.6
-5°	193.7	269.4	320.2	413.5	518.6	647.9	746.1	880.7	1300.1	2352.0	4209.2
-7.5°	208.3	290.4	345.2	431.2	527.3	651.3	753.0	884.4	1285.1	2323.4	4024.2
-10°	217.1	299.3	351.2	430.9	524.5	644.1	753.0	881.2	1241.7	2205.2	3764.4
-12.5°	210.7	296.8	352.3	427.6	519.1	631.9	747.7	871.1	1167.8	1986.8	3460.5
-15°	202.9	292.8	351.6	421.4	511.5	614.8	736.6	853.9	1052.6	1648.2	3085.1
-17.5°	193.8	287.4	348.9	412.1	501.7	592.8	714.0	809.1	933.4	1404.3	2652.3
-20°	184.0	280.5	344.2	399.8	489.8	561.1	660.8	758.7	872.1	1194.2	2070.2



REPORT NUMBER: P731343 (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°	173.8	272.3	336.3	391.8	459.5	524.5	604.7	700.7	804.6	933.2	1450.9
-25°	167.8	256.9	325.0	373.2	426.6	487.2	547.2	635.8	734.2	837.7	1110.2
-27.5°	164.7	242.0	306.6	354.7	395.0	449.9	500.9	571.7	662.8	751.3	837.7
-30°	159.3	221.0	287.7	335.5	372.1	415.3	459.3	516.7	597.6	675.3	746.9
-32.5°	147.9	199.6	264.6	314.1	351.8	383.3	426.8	478.0	540.2	607.7	665.3
-35°	133.7	182.7	239.6	292.8	331.8	361.6	400.7	443.8	489.5	548.0	616.9
-37.5°	120.7	164.3	214.8	268.9	308.8	345.1	375.2	413.9	453.4	496.7	565.6
-40°	106.6	144.6	192.3	242.1	288.3	325.9	357.1	386.1	420.6	463.9	510.0
-42.5°	91.9	128.0	169.3	215.8	262.1	302.7	338.2	364.9	394.4	431.7	472.6
-45°	79.8	110.5	145.8	189.7	233.4	276.2	312.4	346.1	374.3	401.8	437.2
-47.5°	67.1	93.2	125.8	163.2	204.7	244.8	284.0	321.2	357.2	382.8	404.5
-50°	55.6	78.9	105.4	139.8	176.0	213.6	250.2	293.8	331.9	364.3	389.5
-52.5°	48.2	64.1	88.5	116.7	149.3	183.1	219.3	259.4	300.6	339.1	368.6
-55°	40.4	54.1	71.3	95.8	123.4	154.0	187.9	224.7	262.2	300.8	338.6
-57.5°	32.9	45.1	58.2	75.2	99.2	125.4	156.4	189.1	223.6	258.7	293.6
-60°	25.3	36.0	47.9	60.3	74.9	98.5	124.1	152.9	183.6	215.1	246.6
-62.5°	18.1	26.8	37.2	48.5	60.1	72.9	93.6	117.5	142.3	168.4	195.9
-65°	14.0	18.6	26.3	36.2	46.8	58.0	70.3	83.8	104.4	124.7	144.0
-67.5°	9.8	14.1	18.2	23.3	32.4	42.0	52.4	63.6	75.6	87.4	101.2
-70°	8.8	9.9	13.2	17.0	20.5	25.2	33.7	42.7	52.0	61.0	70.8
-72.5°	8.2	9.1	10.3	11.7	14.7	17.7	20.5	23.3	28.8	36.1	43.4
-75°	7.7	8.2	9.0	10.1	11.3	12.5	14.0	16.5	18.7	20.9	23.1
-77.5°	7.1	7.5	7.9	8.5	9.2	10.1	11.1	12.2	13.2	14.1	15.0
-80°	6.5	6.7	7.0	7.3	7.7	8.2	8.8	9.4	9.8	10.3	10.9
-82.5°	6.0	6.1	6.3	6.4	6.5	6.6	6.8	7.1	7.4	7.7	7.9
-85°	5.5	5.6	5.7	5.8	5.6	5.5	5.5	5.4	5.5	5.7	5.8
-87.5°	5.0	5.0	5.1	5.1	5.0	4.9	4.7	4.5	4.4	4.4	4.3
-90°	4.2	3.9	3.6	3.3	3.3	3.3	3.3	3.3	3.0	2.8	2.5



REPORT NUMBER: P731343 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV2

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	3.3	3.3	3.3	3.3	3.3	3.9	4.5	5.0	5.6	6.2	6.7
87.5°	2.2	2.2	2.2	2.2	2.2	1.9	1.7	1.4	1.1	1.1	1.1
85°	2.9	2.8	2.6	2.4	2.2	2.2	2.1	2.1	2.1	1.9	1.6
82.5°	3.3	3.0	2.8	2.5	2.2	2.2	2.2	2.2	2.2	1.9	1.7
80°	3.3	3.1	2.8	2.5	2.2	2.2	2.2	2.2	2.2	1.9	1.7
77.5°	3.4	3.1	3.0	2.9	2.8	2.7	2.6	2.4	2.2	2.0	1.7
75°	3.4	3.3	3.4	3.4	3.3	3.1	2.8	2.5	2.3	2.2	2.2
72.5°	4.4	4.2	4.2	4.2	4.2	4.1	3.9	3.6	3.2	3.1	3.2
70°	6.5	6.7	6.7	6.6	6.3	5.7	5.3	4.8	4.4	4.3	4.3
67.5°	9.9	10.0	9.7	9.0	7.8	6.8	6.4	6.0	5.5	5.4	5.4
65°	14.2	13.1	12.0	10.7	9.3	7.7	7.2	6.8	6.5	6.5	6.9
62.5°	18.3	15.0	12.0	10.2	8.8	7.7	7.2	6.7	6.2	6.0	6.2
60°	20.2	14.3	10.4	9.2	8.0	6.9	6.2	5.7	5.2	4.9	5.1
57.5°	20.2	14.0	9.6	8.2	7.0	6.0	5.4	5.1	4.8	4.5	4.9
55°	18.0	12.4	8.2	7.0	6.4	5.8	5.5	5.5	5.3	5.2	5.4
52.5°	14.5	10.4	7.6	6.6	6.6	6.6	6.6	6.6	6.7	6.9	7.2
50°	11.5	8.9	8.0	7.6	7.8	7.9	7.7	8.2	8.7	9.1	9.4
47.5°	10.5	9.7	9.8	9.5	9.9	10.7	10.8	11.1	12.0	12.6	13.0
45°	11.7	12.6	13.1	14.0	14.6	15.8	16.3	16.3	18.1	19.4	20.1
42.5°	16.4	17.8	19.6	21.3	22.2	23.8	25.5	26.4	29.2	31.4	32.2
40°	24.8	25.6	29.2	31.5	33.1	35.2	40.3	43.7	49.1	59.1	66.4
37.5°	36.4	39.0	41.2	44.4	51.4	54.8	71.3	86.2	96.5	121.4	135.4
35°	53.3	60.6	58.1	72.3	89.9	112.1	136.2	172.1	200.5	234.1	265.1
32.5°	83.5	101.4	118.7	135.2	174.8	238.4	240.1	307.3	352.2	406.7	454.6
30°	132.2	195.4	274.9	301.2	412.7	537.4	502.8	605.8	707.9	768.6	978.3
27.5°	260.8	403.3	561.3	762.2	970.0	1184.2	1326.1	1375.7	1892.2	2272.1	2766.4
25°	446.3	696.2	1137.8	1463.1	1827.9	2303.6	2578.5	2948.4	3810.0	4883.6	5717.6
22.5°	711.2	1148.0	1731.4	2223.6	2770.4	3411.6	3991.5	4878.5	6218.3	7683.7	8930.5
20°	1008.1	1571.3	2310.5	3047.9	3764.7	4600.3	5609.2	7420.5	9490.6	11787.8	13864.6
17.5°	1555.9	2109.7	3056.3	4064.5	5082.9	6089.4	8308.1	10990.6	14231.2	17635.1	20658.4
15°	2338.7	3235.0	4173.9	5507.0	7202.0	9136.2	11946.2	16651.1	21684.1	26996.4	33329.5
12.5°	3360.3	4659.7	6068.1	7611.6	9909.8	13440.6	18102.1	23844.9	31048.9	39018.7	48030.5
10°	4402.8	6276.8	8216.4	10420.7	13449.7	17997.7	24017.6	31208.2	42537.6	53704.1	63109.4
7.5°	5250.4	7434.4	9881.5	12809.6	16757.7	22299.2	29738.5	40130.6	53641.4	66927.6	77449.5
5°	6045.6	8444.7	10992.3	13984.1	18743.8	25426.3	34385.4	47351.0	63514.4	77644.5	88919.3
2.5°	6622.4	9142.6	11778.1	14822.3	20248.9	27327.3	37163.3	53246.3	71850.4	86327.5	99255.2
0°	6877.8	9209.7	11730.8	14854.2	20298.3	28296.9	38126.6	55735.7	75709.0	91272.7	104258.6
-2.5°	6561.2	8825.1	11426.8	14478.0	19935.4	27619.2	37773.0	55455.4	75497.3	91281.4	104084.3
-5°	6226.2	8372.5	10787.6	13608.1	18584.4	25729.0	36088.6	52983.5	72215.9	88084.4	100573.5
-7.5°	5869.1	7833.5	9994.3	12524.8	16939.6	23814.7	33434.3	47693.6	65670.8	81827.7	93573.7
-10°	5460.9	7249.2	9521.4	12203.4	16046.7	22023.1	29978.4	41401.9	58239.9	73251.3	86147.7
-12.5°	5221.2	7128.6	9399.2	11862.7	14962.9	20229.6	27467.9	37212.3	48738.4	62682.4	74157.6
-15°	4913.2	6843.9	9095.7	11406.9	14276.6	18388.7	24103.6	31260.9	40031.2	49427.8	59613.2
-17.5°	4406.7	6336.3	8149.6	10318.8	13044.4	16293.3	20400.2	25954.8	31773.9	38431.8	44525.6
-20°	3572.6	5131.2	6846.2	8890.0	11233.1	13695.0	16437.6	20222.3	23913.6	28574.7	32316.7



REPORT NUMBER: P731343 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV2

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2570.3	3887.8	5373.6	7062.7	8918.1	11026.0	13092.0	15089.2	17619.0	20569.5	23576.1
-25°	1674.0	2648.7	3935.3	5319.6	6615.5	8299.9	9784.3	10977.1	12683.0	14018.1	15840.1
-27.5°	1159.2	1792.7	2751.1	3854.1	4876.3	5954.4	7162.8	7977.2	9306.0	10028.3	11145.2
-30°	848.2	1203.8	1893.0	2718.0	3608.5	4526.3	5388.9	6284.3	7208.7	8026.1	8646.0
-32.5°	752.1	891.8	1231.8	1825.5	2522.3	3291.9	4022.4	4803.0	5539.4	6173.0	6684.4
-35°	687.0	765.3	872.1	1186.1	1601.9	2202.7	2777.4	3409.2	4000.7	4490.5	4901.1
-37.5°	635.3	698.1	765.3	834.2	1067.6	1330.6	1739.1	2178.2	2557.8	2991.4	3326.3
-40°	576.7	643.7	697.6	752.5	814.4	880.4	1101.5	1298.1	1512.6	1805.3	2044.5
-42.5°	516.2	574.5	635.2	686.3	733.0	782.3	832.0	876.1	985.0	1114.1	1212.0
-45°	474.3	515.6	560.0	614.3	664.5	707.3	747.5	786.0	825.5	862.1	892.4
-47.5°	437.5	470.8	507.4	544.7	582.5	626.4	667.7	706.8	741.1	772.2	797.3
-50°	410.6	433.6	464.1	493.5	525.8	556.5	583.8	615.9	651.0	682.9	708.4
-52.5°	397.0	417.1	434.6	455.7	484.8	510.5	533.1	558.5	582.9	605.2	621.6
-55°	370.2	396.5	422.1	445.8	465.9	484.3	503.8	528.7	550.2	568.6	578.8
-57.5°	328.2	362.1	394.2	424.3	452.6	479.3	501.4	521.2	541.0	559.8	568.5
-60°	278.6	311.0	344.5	380.7	417.3	453.7	480.5	506.0	530.1	550.3	561.0
-62.5°	225.3	254.8	284.8	317.4	352.2	386.3	415.5	446.0	477.2	504.1	521.3
-65°	164.8	189.9	216.8	243.5	269.9	297.1	323.2	348.9	373.8	394.0	408.0
-67.5°	118.1	134.3	150.9	168.1	188.5	209.5	228.8	247.5	265.3	279.6	290.1
-70°	81.2	91.6	101.4	112.4	125.4	138.2	150.1	161.4	172.0	180.9	188.4
-72.5°	50.5	57.4	64.2	71.8	79.3	86.4	93.2	99.4	105.3	110.6	115.4
-75°	25.4	28.6	33.9	39.1	43.9	48.9	53.6	57.6	61.2	64.1	66.6
-77.5°	16.5	18.5	20.5	22.3	24.0	26.4	28.9	31.5	34.1	36.2	38.2
-80°	11.5	12.6	13.8	15.0	16.3	17.8	19.3	20.8	22.2	23.2	24.0
-82.5°	8.2	8.8	9.5	10.2	10.9	12.0	13.0	14.1	15.1	15.8	16.5
-85°	5.9	6.2	6.5	6.8	7.2	8.1	9.0	9.9	10.9	11.5	12.1
-87.5°	4.3	4.3	4.3	4.4	4.4	5.2	6.0	6.9	7.7	8.0	8.3
-90°	2.2	2.2	2.2	2.2	2.2	1.9	1.7	1.4	1.1	1.1	1.1



REPORT NUMBER: P731343 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV2

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	7.3	7.8	7.8	7.8	7.8	7.8	7.3	6.7	6.2	5.6	5.0
87.5°	1.1	1.1	0.6	0.0	0.6	1.1	1.1	1.1	1.1	1.1	1.4
85°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.6	1.9	2.1	2.1
82.5°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.2
80°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.2
77.5°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	2.0	2.2	2.4
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.5
72.5°	3.2	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.1	3.2	3.6
70°	4.4	4.5	3.9	3.3	3.9	4.5	4.4	4.3	4.3	4.4	4.8
67.5°	5.5	5.6	6.1	6.7	6.1	5.6	5.5	5.4	5.4	5.5	6.0
65°	7.3	7.7	7.3	6.7	7.3	7.7	7.3	6.9	6.5	6.5	6.8
62.5°	6.4	6.7	6.2	5.6	6.2	6.7	6.4	6.2	6.0	6.2	6.7
60°	5.3	5.6	5.6	5.6	5.6	5.6	5.3	5.1	4.9	5.2	5.7
57.5°	5.2	5.5	5.6	5.6	5.6	5.5	5.2	4.9	4.5	4.8	5.1
55°	5.5	5.6	5.6	5.6	5.6	5.6	5.5	5.4	5.2	5.3	5.5
52.5°	7.5	7.7	7.8	7.8	7.8	7.7	7.5	7.2	6.9	6.7	6.6
50°	9.6	9.8	10.0	10.0	10.0	9.8	9.6	9.4	9.1	8.7	8.2
47.5°	13.3	13.3	13.3	13.4	13.3	13.3	13.3	13.0	12.6	12.0	11.1
45°	20.3	20.1	19.9	20.0	19.9	20.1	20.3	20.1	19.4	18.1	16.3
42.5°	33.1	33.2	33.1	33.4	33.1	33.2	33.1	32.2	31.4	29.2	26.4
40°	68.4	65.9	62.4	62.3	62.4	65.9	68.4	66.4	59.1	49.1	43.7
37.5°	142.4	144.8	144.5	146.9	144.5	144.8	142.4	135.4	121.4	96.5	86.2
35°	288.7	301.7	304.7	303.9	304.7	301.7	288.7	265.1	234.1	200.5	172.1
32.5°	475.5	492.7	497.6	504.2	497.6	492.7	475.5	454.6	406.7	352.2	307.3
30°	836.1	859.3	837.2	792.5	837.2	859.3	836.1	978.3	768.6	707.9	605.8
27.5°	3029.7	3140.8	2890.7	2799.4	2890.7	3140.8	3029.7	2766.4	2272.1	1892.2	1375.7
25°	6174.4	6665.9	7169.5	7124.9	7169.5	6665.9	6174.4	5717.6	4883.6	3810.0	2948.4
22.5°	9964.7	10462.6	10877.7	11020.7	10877.7	10462.6	9964.7	8930.5	7683.7	6218.3	4878.5
20°	15783.2	16753.0	17447.5	16707.5	17447.5	16753.0	15783.2	13864.6	11787.8	9490.6	7420.5
17.5°	25228.6	28149.1	29666.3	30624.4	29666.3	28149.1	25228.6	20658.4	17635.1	14231.2	10990.6
15°	39163.0	43567.5	46007.6	47623.5	46007.6	43567.5	39163.0	33329.5	26996.4	21684.1	16651.1
12.5°	55232.8	60035.1	62191.8	63952.0	62191.8	60035.1	55232.8	48030.5	39018.7	31048.9	23844.9
10°	70509.4	75697.5	79289.6	81156.4	79289.6	75697.5	70509.4	63109.4	53704.1	42537.6	31208.2
7.5°	84506.4	90853.0	94498.0	95658.3	94498.0	90853.0	84506.4	77449.5	66927.6	53641.4	40130.6
5°	98197.4	103859.9	108243.5	109237.4	108243.5	103859.9	98197.4	88919.3	77644.5	63514.4	47351.0
2.5°	108738.8	115525.2	119460.8	120650.5	119460.8	115525.2	108738.8	99255.2	86327.5	71850.4	53246.3
0°	113569.6	119887.5	124547.4	126218.7	124547.4	119887.5	113569.6	104258.6	91272.7	75709.0	55735.7
-2.5°	112559.2	118381.5	121717.0	122291.7	121717.0	118381.5	112559.2	104084.3	91281.4	75497.3	55455.4
-5°	109005.4	114355.0	117649.5	117743.7	117649.5	114355.0	109005.4	100573.5	88084.4	72215.9	52983.5
-7.5°	101199.5	106201.9	108498.7	109075.5	108498.7	106201.9	101199.5	93573.7	81827.7	65670.8	47693.6
-10°	93254.5	97895.5	100065.9	100306.0	100065.9	97895.5	93254.5	86147.7	73251.3	58239.9	41401.9
-12.5°	82963.2	87929.1	90096.1	91115.2	90096.1	87929.1	82963.2	74157.6	62682.4	48738.4	37212.3
-15°	67648.7	72450.5	75050.4	76970.1	75050.4	72450.5	67648.7	59613.2	49427.8	40031.2	31260.9
-17.5°	51239.2	55355.0	57917.1	60249.3	57917.1	55355.0	51239.2	44525.6	38431.8	31773.9	25954.8
-20°	36480.1	39101.3	39906.4	41163.1	39906.4	39101.3	36480.1	32316.7	28574.7	23913.6	20222.3



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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°	25621.8	27112.1	28056.2	28589.7	28056.2	27112.1	25621.8	23576.1	20569.5	17619.0	15089.2
-25°	17369.8	18403.4	18805.3	19268.7	18805.3	18403.4	17369.8	15840.1	14018.1	12683.0	10977.1
-27.5°	11635.0	12059.4	12349.3	12506.7	12349.3	12059.4	11635.0	11145.2	10028.3	9306.0	7977.2
-30°	9144.9	9533.0	9765.8	9839.7	9765.8	9533.0	9144.9	8646.0	8026.1	7208.7	6284.3
-32.5°	7080.2	7373.6	7530.4	7551.2	7530.4	7373.6	7080.2	6684.4	6173.0	5539.4	4803.0
-35°	5245.2	5512.5	5660.4	5650.0	5660.4	5512.5	5245.2	4901.1	4490.5	4000.7	3409.2
-37.5°	3614.4	3840.9	3979.9	4016.0	3979.9	3840.9	3614.4	3326.3	2991.4	2557.8	2178.2
-40°	2261.1	2427.5	2526.8	2540.1	2526.8	2427.5	2261.1	2044.5	1805.3	1512.6	1298.1
-42.5°	1298.0	1365.4	1403.2	1401.4	1403.2	1365.4	1298.0	1212.0	1114.1	985.0	876.1
-45°	912.2	927.3	935.8	937.2	935.8	927.3	912.2	892.4	862.1	825.5	786.0
-47.5°	815.4	829.7	837.3	838.2	837.3	829.7	815.4	797.3	772.2	741.1	706.8
-50°	728.8	745.7	755.0	756.9	755.0	745.7	728.8	708.4	682.9	651.0	615.9
-52.5°	634.9	646.1	649.8	647.8	649.8	646.1	634.9	621.6	605.2	582.9	558.5
-55°	588.2	597.4	601.3	602.2	601.3	597.4	588.2	578.8	568.6	550.2	528.7
-57.5°	576.9	585.1	587.7	587.7	587.7	585.1	576.9	568.5	559.8	541.0	521.2
-60°	571.5	581.8	583.7	582.1	583.7	581.8	571.5	561.0	550.3	530.1	506.0
-62.5°	536.5	549.6	553.7	553.2	553.7	549.6	536.5	521.3	504.1	477.2	446.0
-65°	419.9	429.5	434.4	436.3	434.4	429.5	419.9	408.0	394.0	373.8	348.9
-67.5°	298.6	305.3	307.4	307.2	307.4	305.3	298.6	290.1	279.6	265.3	247.5
-70°	194.7	199.9	200.4	199.2	200.4	199.9	194.7	188.4	180.9	172.0	161.4
-72.5°	119.5	123.1	122.7	121.3	122.7	123.1	119.5	115.4	110.6	105.3	99.4
-75°	68.7	70.5	70.0	69.0	70.0	70.5	68.7	66.6	64.1	61.2	57.6
-77.5°	40.1	41.9	42.2	42.3	42.2	41.9	40.1	38.2	36.2	34.1	31.5
-80°	24.8	25.5	25.6	25.6	25.6	25.5	24.8	24.0	23.2	22.2	20.8
-82.5°	17.1	17.7	17.8	17.8	17.8	17.7	17.1	16.5	15.8	15.1	14.1
-85°	12.7	13.4	13.4	13.4	13.4	13.4	12.7	12.1	11.5	10.9	9.9
-87.5°	8.6	8.9	8.9	8.9	8.9	8.9	8.6	8.3	8.0	7.7	6.9
-90°	1.1	1.1	0.5	0.0	0.5	1.1	1.1	1.1	1.1	1.1	1.4



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	4.5	3.9	3.3	3.3	3.3	3.3	3.3	3.6	3.9	4.2	4.5
87.5°	1.7	1.9	2.2	2.2	2.2	2.2	2.2	2.5	2.8	3.0	3.3
85°	2.1	2.2	2.2	2.4	2.6	2.8	2.9	3.0	3.0	3.2	3.3
82.5°	2.2	2.2	2.2	2.5	2.8	3.0	3.3	3.3	3.3	3.3	3.3
80°	2.2	2.2	2.2	2.5	2.8	3.1	3.3	3.4	3.3	3.3	3.4
77.5°	2.6	2.7	2.8	2.9	3.0	3.1	3.4	3.7	3.9	4.0	4.0
75°	2.8	3.1	3.3	3.4	3.4	3.3	3.4	3.7	4.0	4.3	4.5
72.5°	3.9	4.1	4.2	4.2	4.2	4.2	4.4	4.6	4.7	4.6	4.5
70°	5.3	5.7	6.3	6.6	6.7	6.7	6.5	6.4	6.2	6.2	5.8
67.5°	6.4	6.8	7.8	9.0	9.7	10.0	9.9	9.3	8.8	8.5	7.6
65°	7.2	7.7	9.3	10.7	12.0	13.1	14.2	14.1	13.4	12.0	9.6
62.5°	7.2	7.7	8.8	10.2	12.0	15.0	18.3	19.5	19.4	16.9	13.3
60°	6.2	6.9	8.0	9.2	10.4	14.3	20.2	24.3	26.6	22.5	17.1
57.5°	5.4	6.0	7.0	8.2	9.6	14.0	20.2	27.6	32.3	26.4	20.9
55°	5.5	5.8	6.4	7.0	8.2	12.4	18.0	24.7	30.1	28.4	22.3
52.5°	6.6	6.6	6.6	6.6	7.6	10.4	14.5	20.5	23.8	23.4	21.4
50°	7.7	7.9	7.8	7.6	8.0	8.9	11.5	16.0	17.8	18.7	18.0
47.5°	10.8	10.7	9.9	9.5	9.8	9.7	10.5	11.8	14.3	14.6	14.9
45°	16.3	15.8	14.6	14.0	13.1	12.6	11.7	13.0	13.6	14.1	12.3
42.5°	25.5	23.8	22.2	21.3	19.6	17.8	16.4	16.7	16.4	15.8	15.3
40°	40.3	35.2	33.1	31.5	29.2	25.6	24.8	22.7	21.6	19.7	20.4
37.5°	71.3	54.8	51.4	44.4	41.2	39.0	36.4	32.7	28.5	30.2	29.9
35°	136.2	112.1	89.9	72.3	58.1	60.6	53.3	45.9	43.2	45.7	43.4
32.5°	240.1	238.4	174.8	135.2	118.7	101.4	83.5	65.0	71.7	70.1	61.9
30°	502.8	537.4	412.7	301.2	274.9	195.4	132.2	121.4	116.0	102.7	85.7
27.5°	1326.1	1184.2	970.0	762.2	561.3	403.3	260.8	192.8	173.2	149.5	121.8
25°	2578.5	2303.6	1827.9	1463.1	1137.8	696.2	446.3	315.4	246.8	207.4	170.7
22.5°	3991.5	3411.6	2770.4	2223.6	1731.4	1148.0	711.2	456.8	329.6	275.5	228.5
20°	5609.2	4600.3	3764.7	3047.9	2310.5	1571.3	1008.1	683.0	467.1	351.6	287.5
17.5°	8308.1	6089.4	5082.9	4064.5	3056.3	2109.7	1555.9	1041.2	615.7	431.0	346.1
15°	11946.2	9136.2	7202.0	5507.0	4173.9	3235.0	2338.7	1497.2	826.1	540.3	418.9
12.5°	18102.1	13440.6	9909.8	7611.6	6068.1	4659.7	3360.3	2172.8	1187.7	683.1	507.6
10°	24017.6	17997.7	13449.7	10420.7	8216.4	6276.8	4402.8	2776.9	1515.3	831.6	592.7
7.5°	29738.5	22299.2	16757.7	12809.6	9881.5	7434.4	5250.4	3333.3	1800.9	976.6	673.9
5°	34385.4	25426.3	18743.8	13984.1	10992.3	8444.7	6045.6	3855.2	2041.1	1113.9	750.3
2.5°	37163.3	27327.3	20248.9	14822.3	11778.1	9142.6	6622.4	4177.6	2153.4	1187.4	793.1
0°	38126.6	28296.9	20298.3	14854.2	11730.8	9209.7	6877.8	4280.9	2175.0	1232.2	830.4
-2.5°	37773.0	27619.2	19935.4	14478.0	11426.8	8825.1	6561.2	4299.6	2296.6	1278.5	858.7
-5°	36088.6	25729.0	18584.4	13608.1	10787.6	8372.5	6226.2	4209.2	2352.0	1300.1	880.7
-7.5°	33434.3	23814.7	16939.6	12524.8	9994.3	7833.5	5869.1	4024.2	2323.4	1285.1	884.4
-10°	29978.4	22023.1	16046.7	12203.4	9521.4	7249.2	5460.9	3764.4	2205.2	1241.7	881.2
-12.5°	27467.9	20229.6	14962.9	11862.7	9399.2	7128.6	5221.2	3460.5	1986.8	1167.8	871.1
-15°	24103.6	18388.7	14276.6	11406.9	9095.7	6843.9	4913.2	3085.1	1648.2	1052.6	853.9
-17.5°	20400.2	16293.3	13044.4	10318.8	8149.6	6336.3	4406.7	2652.3	1404.3	933.4	809.1
-20°	16437.6	13695.0	11233.1	8890.0	6846.2	5131.2	3572.6	2070.2	1194.2	872.1	758.7



REPORT NUMBER: P731343 (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°	13092.0	11026.0	8918.1	7062.7	5373.6	3887.8	2570.3	1450.9	933.2	804.6	700.7
-25°	9784.3	8299.9	6615.5	5319.6	3935.3	2648.7	1674.0	1110.2	837.7	734.2	635.8
-27.5°	7162.8	5954.4	4876.3	3854.1	2751.1	1792.7	1159.2	837.7	751.3	662.8	571.7
-30°	5388.9	4526.3	3608.5	2718.0	1893.0	1203.8	848.2	746.9	675.3	597.6	516.7
-32.5°	4022.4	3291.9	2522.3	1825.5	1231.8	891.8	752.1	665.3	607.7	540.2	478.0
-35°	2777.4	2202.7	1601.9	1186.1	872.1	765.3	687.0	616.9	548.0	489.5	443.8
-37.5°	1739.1	1330.6	1067.6	834.2	765.3	698.1	635.3	565.6	496.7	453.4	413.9
-40°	1101.5	880.4	814.4	752.5	697.6	643.7	576.7	510.0	463.9	420.6	386.1
-42.5°	832.0	782.3	733.0	686.3	635.2	574.5	516.2	472.6	431.7	394.4	364.9
-45°	747.5	707.3	664.5	614.3	560.0	515.6	474.3	437.2	401.8	374.3	346.1
-47.5°	667.7	626.4	582.5	544.7	507.4	470.8	437.5	404.5	382.8	357.2	321.2
-50°	583.8	556.5	525.8	493.5	464.1	433.6	410.6	389.5	364.3	331.9	293.8
-52.5°	533.1	510.5	484.8	455.7	434.6	417.1	397.0	368.6	339.1	300.6	259.4
-55°	503.8	484.3	465.9	445.8	422.1	396.5	370.2	338.6	300.8	262.2	224.7
-57.5°	501.4	479.3	452.6	424.3	394.2	362.1	328.2	293.6	258.7	223.6	189.1
-60°	480.5	453.7	417.3	380.7	344.5	311.0	278.6	246.6	215.1	183.6	152.9
-62.5°	415.5	386.3	352.2	317.4	284.8	254.8	225.3	195.9	168.4	142.3	117.5
-65°	323.2	297.1	269.9	243.5	216.8	189.9	164.8	144.0	124.7	104.4	83.8
-67.5°	228.8	209.5	188.5	168.1	150.9	134.3	118.1	101.2	87.4	75.6	63.6
-70°	150.1	138.2	125.4	112.4	101.4	91.6	81.2	70.8	61.0	52.0	42.7
-72.5°	93.2	86.4	79.3	71.8	64.2	57.4	50.5	43.4	36.1	28.8	23.3
-75°	53.6	48.9	43.9	39.1	33.9	28.6	25.4	23.1	20.9	18.7	16.5
-77.5°	28.9	26.4	24.0	22.3	20.5	18.5	16.5	15.0	14.1	13.2	12.2
-80°	19.3	17.8	16.3	15.0	13.8	12.6	11.5	10.9	10.3	9.8	9.4
-82.5°	13.0	12.0	10.9	10.2	9.5	8.8	8.2	7.9	7.7	7.4	7.1
-85°	9.0	8.1	7.2	6.8	6.5	6.2	5.9	5.8	5.7	5.5	5.4
-87.5°	6.0	5.2	4.4	4.4	4.3	4.3	4.3	4.3	4.4	4.4	4.5
-90°	1.7	1.9	2.2	2.2	2.2	2.2	2.2	2.5	2.8	3.0	3.3





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	3.3	3.3	3.3	3.3	3.6	3.9	4.2	4.5	4.5	4.5	4.5
85°	3.4	3.5	3.5	3.5	3.7	3.9	4.2	4.5	4.5	4.5	4.5
82.5°	3.6	3.9	4.1	4.2	4.2	4.2	4.3	4.5	4.5	4.5	4.5
80°	3.7	4.0	4.3	4.5	4.5	4.5	4.5	4.5	4.7	4.7	4.7
77.5°	4.0	4.1	4.3	4.5	4.5	4.5	4.5	4.6	4.8	4.9	4.9
75°	4.5	4.4	4.4	4.5	4.6	4.5	4.5	4.6	4.9	5.1	5.2
72.5°	4.5	4.5	4.5	4.6	4.8	4.8	4.7	4.6	4.9	5.1	5.4
70°	5.3	4.7	4.5	4.7	5.0	5.2	5.1	5.0	4.9	5.2	5.4
67.5°	6.7	6.0	5.4	4.9	5.0	5.3	5.5	5.3	5.2	5.2	5.5
65°	8.4	7.4	6.6	5.8	5.3	5.3	5.6	5.6	5.4	5.4	5.5
62.5°	10.6	8.9	7.8	6.7	5.8	5.5	5.6	5.6	5.6	5.5	5.5
60°	13.0	10.4	8.9	7.8	6.5	5.7	5.6	5.6	5.6	5.6	5.6
57.5°	15.6	11.6	9.9	8.7	7.5	6.2	5.6	5.6	5.6	5.6	5.6
55°	17.3	13.1	11.0	9.4	8.3	7.1	5.9	5.6	5.6	5.6	5.6
52.5°	17.0	14.2	12.1	10.1	8.8	7.9	6.6	5.6	5.6	5.6	5.6
50°	15.4	14.5	12.8	10.8	9.2	8.2	7.3	6.1	5.6	5.6	5.6
47.5°	14.8	14.7	13.2	11.3	9.5	8.6	7.7	6.6	5.6	5.6	5.6
45°	14.5	15.2	13.9	11.8	9.8	8.9	8.0	7.0	5.9	5.6	5.6
42.5°	14.8	15.9	15.1	12.3	10.8	9.2	8.2	7.3	6.2	5.7	5.6
40°	18.9	17.1	16.7	15.1	12.2	9.5	8.5	7.5	6.5	5.9	5.7
37.5°	24.4	20.9	18.5	20.3	14.7	11.0	8.7	7.7	6.9	6.2	5.8
35°	36.2	27.0	25.5	27.0	21.0	12.8	9.0	7.9	7.2	6.5	6.0
32.5°	50.9	40.5	38.6	35.1	28.9	14.7	10.0	8.4	7.6	6.8	6.1
30°	72.5	65.2	55.2	44.8	37.9	21.9	12.1	9.1	7.9	7.1	6.3
27.5°	105.2	92.7	75.7	59.9	47.3	30.6	14.8	10.0	8.2	7.4	6.5
25°	143.1	123.8	101.8	78.3	57.8	42.5	17.6	11.1	8.8	7.6	6.8
22.5°	189.2	157.2	129.6	98.7	73.6	56.0	24.0	13.4	9.5	7.9	7.0
20°	237.4	192.2	159.5	121.3	92.6	69.3	34.3	15.8	10.4	8.1	7.2
17.5°	287.5	236.8	195.5	148.1	112.1	83.7	45.4	18.2	11.3	8.3	7.4
15°	355.0	293.9	234.8	176.5	130.8	98.7	56.8	20.6	12.2	8.5	7.6
12.5°	426.3	353.4	276.5	205.8	148.4	114.2	68.4	22.9	13.2	9.1	7.8
10°	497.0	414.3	319.5	235.5	165.1	129.7	79.8	26.1	15.4	10.2	8.0
7.5°	566.4	475.1	362.8	264.7	183.0	150.0	98.6	31.4	17.7	11.2	8.3
5°	629.1	529.4	405.5	300.4	211.5	174.9	118.4	36.7	20.1	12.3	8.5
2.5°	668.9	571.5	445.5	334.7	239.2	198.9	137.4	41.8	22.3	13.4	8.7
0°	704.6	608.9	482.0	366.2	266.0	221.5	154.7	46.7	24.5	14.5	8.9
-2.5°	727.2	630.8	501.9	391.2	293.7	246.4	175.7	60.5	32.4	18.7	10.6
-5°	746.1	647.9	518.6	413.5	320.2	269.4	193.7	73.4	40.0	22.6	12.3
-7.5°	753.0	651.3	527.3	431.2	345.2	290.4	208.3	85.3	47.0	26.3	13.8
-10°	753.0	644.1	524.5	430.9	351.2	299.3	217.1	95.6	53.2	29.5	15.2
-12.5°	747.7	631.9	519.1	427.6	352.3	296.8	210.7	102.5	58.5	32.2	16.3
-15°	736.6	614.8	511.5	421.4	351.6	292.8	202.9	106.9	62.6	34.5	17.2
-17.5°	714.0	592.8	501.7	412.1	348.9	287.4	193.8	109.9	65.6	36.3	18.1
-20°	660.8	561.1	489.8	399.8	344.2	280.5	184.0	111.3	67.4	37.4	19.1



REPORT NUMBER: P731343 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV2

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	604.7	524.5	459.5	391.8	336.3	272.3	173.8	111.0	68.1	37.6	19.6
-25°	547.2	487.2	426.6	373.2	325.0	256.9	167.8	109.0	67.3	37.0	19.9
-27.5°	500.9	449.9	395.0	354.7	306.6	242.0	164.7	107.9	65.7	35.4	19.7
-30°	459.3	415.3	372.1	335.5	287.7	221.0	159.3	105.1	63.9	34.4	19.1
-32.5°	426.8	383.3	351.8	314.1	264.6	199.6	147.9	100.4	60.7	33.7	18.7
-35°	400.7	361.6	331.8	292.8	239.6	182.7	133.7	93.7	56.1	32.4	18.0
-37.5°	375.2	345.1	308.8	268.9	214.8	164.3	120.7	83.5	50.1	30.5	17.0
-40°	357.1	325.9	288.3	242.1	192.3	144.6	106.6	73.5	46.2	28.0	15.5
-42.5°	338.2	302.7	262.1	215.8	169.3	128.0	91.9	63.0	41.8	25.6	13.7
-45°	312.4	276.2	233.4	189.7	145.8	110.5	79.8	52.8	37.0	23.0	12.1
-47.5°	284.0	244.8	204.7	163.2	125.8	93.2	67.1	46.9	31.8	19.9	11.3
-50°	250.2	213.6	176.0	139.8	105.4	78.9	55.6	40.7	27.3	16.0	10.2
-52.5°	219.3	183.1	149.3	116.7	88.5	64.1	48.2	34.2	22.5	13.6	8.9
-55°	187.9	154.0	123.4	95.8	71.3	54.1	40.4	28.3	17.4	11.8	7.7
-57.5°	156.4	125.4	99.2	75.2	58.2	45.1	32.9	22.0	14.3	9.8	7.5
-60°	124.1	98.5	74.9	60.3	47.9	36.0	25.3	16.5	11.7	8.0	7.2
-62.5°	93.6	72.9	60.1	48.5	37.2	26.8	18.1	13.2	9.0	7.7	7.0
-65°	70.3	58.0	46.8	36.2	26.3	18.6	14.0	9.7	8.1	7.4	6.8
-67.5°	52.4	42.0	32.4	23.3	18.2	14.1	9.8	8.4	7.8	7.1	6.8
-70°	33.7	25.2	20.5	17.0	13.2	9.9	8.8	8.0	7.4	7.0	6.8
-72.5°	20.5	17.7	14.7	11.7	10.3	9.1	8.2	7.6	7.2	6.9	6.7
-75°	14.0	12.5	11.3	10.1	9.0	8.2	7.7	7.2	6.9	6.7	6.5
-77.5°	11.1	10.1	9.2	8.5	7.9	7.5	7.1	6.8	6.6	6.4	6.1
-80°	8.8	8.2	7.7	7.3	7.0	6.7	6.5	6.4	6.2	6.0	5.8
-82.5°	6.8	6.6	6.5	6.4	6.3	6.1	6.0	5.9	5.8	5.6	5.5
-85°	5.5	5.5	5.6	5.8	5.7	5.6	5.5	5.4	5.3	5.3	5.2
-87.5°	4.7	4.9	5.0	5.1	5.1	5.0	5.0	5.0	4.9	4.9	4.8
-90°	3.3	3.3	3.3	3.3	3.6	3.9	4.2	4.5	4.5	4.5	4.5



REPORT NUMBER: P731343 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	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
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.8	4.6	4.5	4.5	4.5	4.5	4.5
75°	5.1	4.8	4.5	4.5	4.5	4.5	4.5
72.5°	5.4	5.0	4.7	4.5	4.5	4.5	4.5
70°	5.6	5.3	4.9	4.5	4.5	4.5	4.5
67.5°	5.6	5.5	5.1	4.7	4.5	4.5	4.5
65°	5.6	5.6	5.3	4.8	4.5	4.5	4.5
62.5°	5.6	5.6	5.4	4.9	4.5	4.5	4.5
60°	5.6	5.6	5.6	5.0	4.5	4.5	4.5
57.5°	5.6	5.6	5.6	5.2	4.6	4.5	4.5
55°	5.6	5.6	5.6	5.3	4.7	4.5	4.5
52.5°	5.6	5.6	5.6	5.4	4.7	4.5	4.5
50°	5.6	5.6	5.6	5.5	4.8	4.5	4.5
47.5°	5.6	5.6	5.6	5.6	4.9	4.5	4.5
45°	5.6	5.6	5.6	5.6	5.0	4.5	4.5
42.5°	5.6	5.6	5.6	5.6	5.0	4.5	4.5
40°	5.6	5.6	5.6	5.6	5.1	4.5	4.5
37.5°	5.6	5.6	5.6	5.6	5.1	4.5	4.5
35°	5.6	5.6	5.6	5.6	5.2	4.5	4.5
32.5°	5.6	5.6	5.6	5.6	5.3	4.5	4.5
30°	5.7	5.6	5.6	5.6	5.3	4.5	4.5
27.5°	5.9	5.6	5.6	5.6	5.4	4.5	4.5
25°	6.0	5.6	5.6	5.6	5.4	4.5	4.5
22.5°	6.1	5.6	5.6	5.6	5.4	4.5	4.5
20°	6.3	5.7	5.6	5.6	5.5	4.5	4.5
17.5°	6.4	5.8	5.6	5.6	5.5	4.5	4.5
15°	6.5	5.9	5.6	5.6	5.5	4.5	4.5
12.5°	6.6	6.0	5.6	5.6	5.5	4.5	4.5
10°	6.6	6.2	5.6	5.6	5.6	4.5	4.5
7.5°	6.7	6.3	5.6	5.6	5.6	4.5	4.5
5°	6.7	6.4	5.6	5.6	5.6	4.5	4.5
2.5°	6.7	6.6	5.6	5.6	5.6	4.5	4.5
0°	6.7	6.7	5.6	5.6	5.6	4.5	4.5
-2.5°	7.3	6.7	5.6	5.6	5.6	4.5	4.5
-5°	7.8	6.7	5.6	5.6	5.6	4.5	4.5
-7.5°	8.4	6.7	5.6	5.6	5.6	4.5	4.5
-10°	8.8	6.6	5.6	5.6	5.6	4.5	4.5
-12.5°	9.2	6.6	5.6	5.6	5.5	4.5	4.5
-15°	9.5	6.5	5.6	5.6	5.5	4.5	4.5
-17.5°	9.6	6.4	5.6	5.6	5.5	4.5	4.5
-20°	9.8	6.4	5.6	5.6	5.5	4.5	4.5



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV2

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	10.2	6.3	5.6	5.6	5.4	4.5	4.5
-25°	10.4	6.4	5.6	5.6	5.4	4.5	4.5
-27.5°	10.4	6.5	5.6	5.6	5.4	4.5	4.5
-30°	10.1	6.5	5.6	5.6	5.3	4.5	4.5
-32.5°	9.5	6.4	5.7	5.6	5.3	4.5	4.5
-35°	9.3	6.3	5.7	5.6	5.2	4.5	4.5
-37.5°	9.1	6.2	5.7	5.6	5.1	4.5	4.5
-40°	8.8	6.2	5.8	5.6	5.1	4.5	4.5
-42.5°	8.4	6.2	5.8	5.6	5.0	4.5	4.5
-45°	7.8	6.3	5.8	5.6	5.0	4.5	4.5
-47.5°	7.1	6.2	5.9	5.7	4.9	4.5	4.5
-50°	6.9	6.2	5.9	5.6	4.8	4.5	4.5
-52.5°	6.9	6.2	5.9	5.5	4.7	4.5	4.5
-55°	6.7	6.2	6.0	5.4	4.7	4.5	4.5
-57.5°	6.6	6.2	6.0	5.3	4.6	4.5	4.5
-60°	6.5	6.2	6.0	5.2	4.5	4.5	4.5
-62.5°	6.5	6.3	5.9	5.1	4.5	4.5	4.5
-65°	6.6	6.3	5.7	5.0	4.5	4.5	4.5
-67.5°	6.6	6.2	5.5	4.9	4.5	4.5	4.5
-70°	6.6	6.0	5.4	4.8	4.5	4.5	4.5
-72.5°	6.4	5.8	5.2	4.7	4.5	4.5	4.5
-75°	6.1	5.6	5.0	4.7	4.5	4.5	4.5
-77.5°	5.9	5.4	5.0	4.7	4.5	4.5	4.5
-80°	5.6	5.2	4.9	4.6	4.5	4.5	4.5
-82.5°	5.3	5.0	4.8	4.6	4.5	4.5	4.5
-85°	5.1	4.9	4.7	4.6	4.5	4.5	4.5
-87.5°	4.8	4.7	4.6	4.5	4.5	4.5	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

