

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: P731488 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-4S-CV5**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731488 (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-08-0530N-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

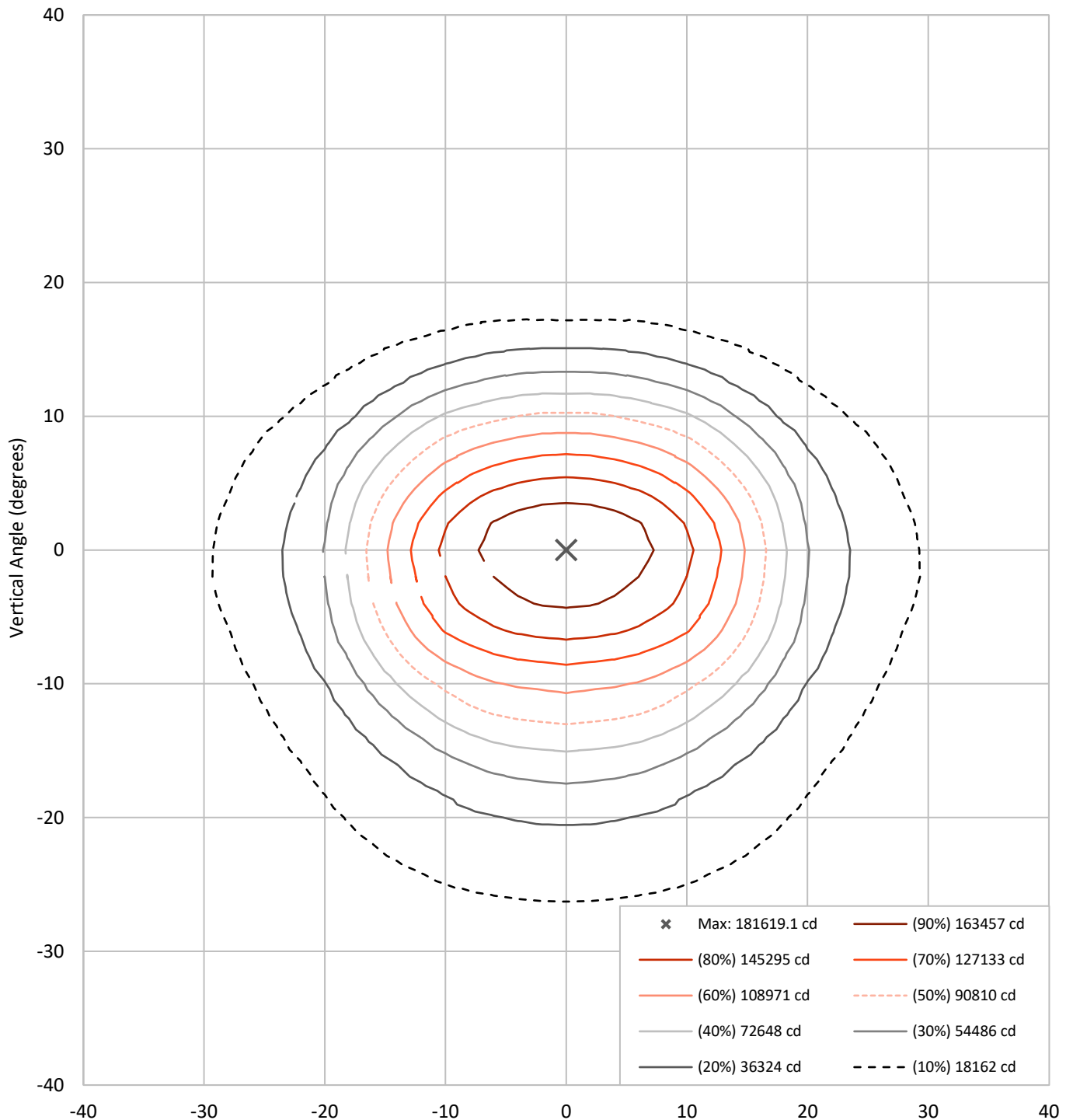
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 3V
Luminaire Lumens:	47944.2 lumens	Max Intensity:	181619.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	85.6 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:	24258.2 lumens	Field Lumens:	41347.7 lumens
Beam Efficiency:	50.6%	Field Efficiency:	86.2%

Input Watts (W): 559.9  
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

REPORT NUMBER: P731488 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV5

### Iso-Candela Plot





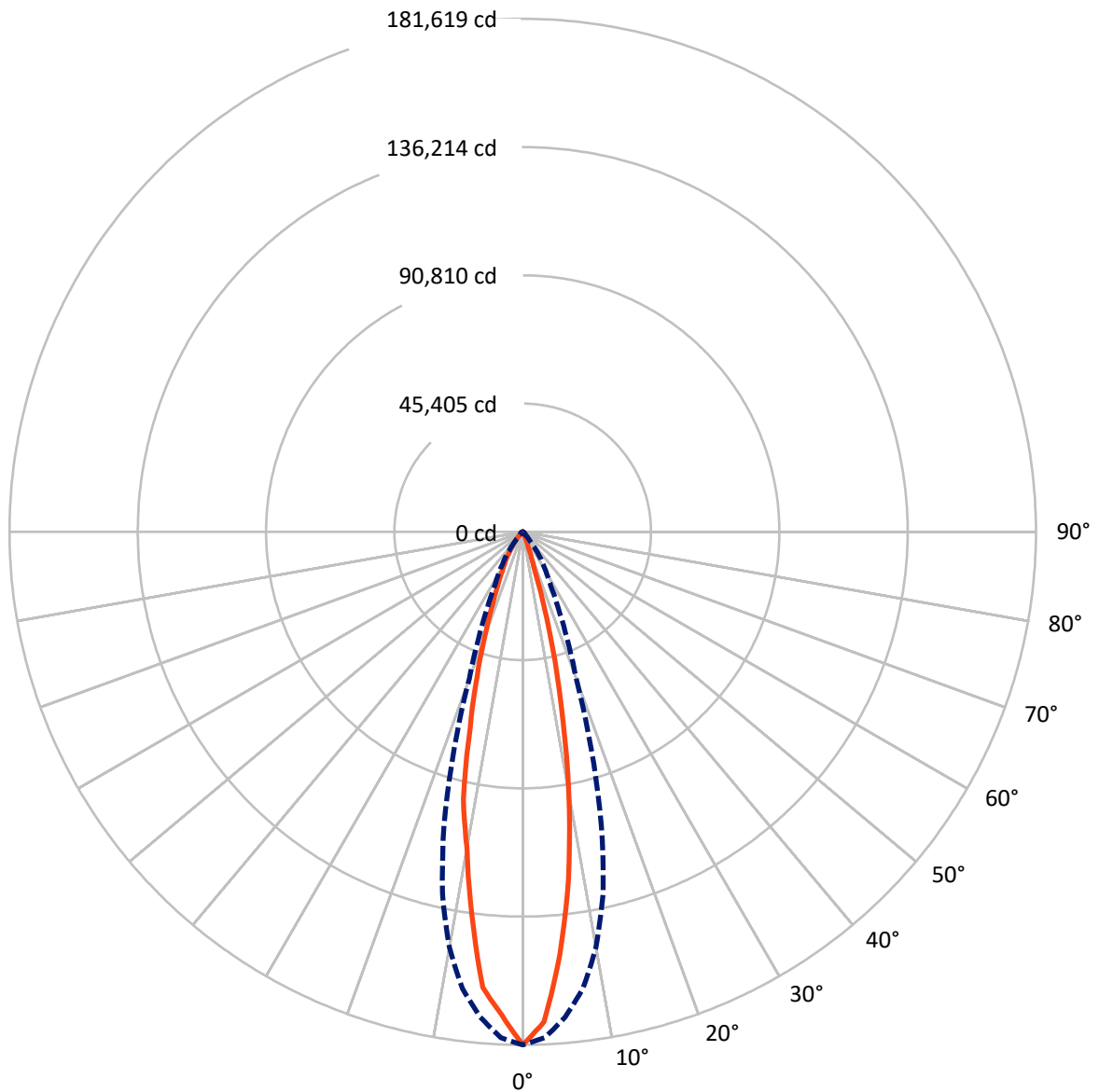
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### Lumen Table

90	0.2		0.4		0.7		0.6		0.4		0.6		0.7		0.4		0.2	
80	0.2		0.4		0.7		0.6		0.4		0.6		0.7		0.4		0.2	
70	0.2	0.1	0.2	0.4	0.6	0.4	0.2	0.2	0.2	0.2	0.4	0.6	0.4	0.2	0.1	0.2	0.2	0.2
60		0.1	0.3	0.7	0.7	0.3	0.2	0.2	0.2	0.2	0.3	0.7	0.7	0.3	0.1			
50	0.2	0.1	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.1	0.2	0.2	0.2
40		0.2	0.5	0.7	1.0	2.1	3.7	5.5	5.5	3.7	2.1	1.0	0.7	0.5	0.2			
30	0.2	0.3	1.3	2.7	7.2	20.0	41.4	68.8	68.8	41.4	20.0	7.2	2.7	1.3	0.3	0.2	0.2	0.2
20		0.8	4.1	10.8	64.7	202.2	616.0	1151.3	1151.3	616.0	202.2	64.7	10.8	4.1	0.8			
10	0.3	1.5	8.3	27.3	200.8	707.5	2449.6	4168.5	4168.5	2449.6	707.5	200.8	27.3	8.3	1.5	0.3	0.3	0.3
0		2.1	10.3	32.8	223.8	780.7	2698.1	4429.2	4429.2	2698.1	780.7	223.8	32.8	10.3	2.1			
-10	0.4	2.2	9.1	23.0	132.6	430.3	1194.0	2098.4	2098.4	1194.0	430.3	132.6	23.0	9.1	2.2	0.4	0.4	0.4
-20		2.1	7.7	15.4	55.4	215.1	443.3	645.5	645.5	443.3	215.1	55.4	15.4	7.7	2.1			
-30	0.4	1.8	6.4	12.0	22.5	67.0	152.1	215.8	215.8	152.1	67.0	22.5	12.0	6.4	1.8	0.4	0.4	0.4
-40		1.1	4.6	9.9	16.0	23.9	34.6	45.4	45.4	34.6	23.9	16.0	9.9	4.6	1.1			
-50	0.2	0.6	2.4	6.3	11.3	15.8	19.4	21.7	21.7	19.4	15.8	11.3	6.3	2.4	0.6	0.2	0.2	0.2
-60		0.2	0.9	2.4	4.7	7.6	10.2	11.8	11.8	10.2	7.6	4.7	2.4	0.9	0.2			
-70	0.2	0.6	2.4	6.3	11.3	15.8	19.4	21.7	21.7	19.4	15.8	11.3	6.3	2.4	0.6	0.2	0.2	0.2
-80		0.2	0.9	2.4	4.7	7.6	10.2	11.8	11.8	10.2	7.6	4.7	2.4	0.9	0.2			
-90	0.2		0.7		2.3		5.9		8.4		5.9		2.3		0.7		0.2	

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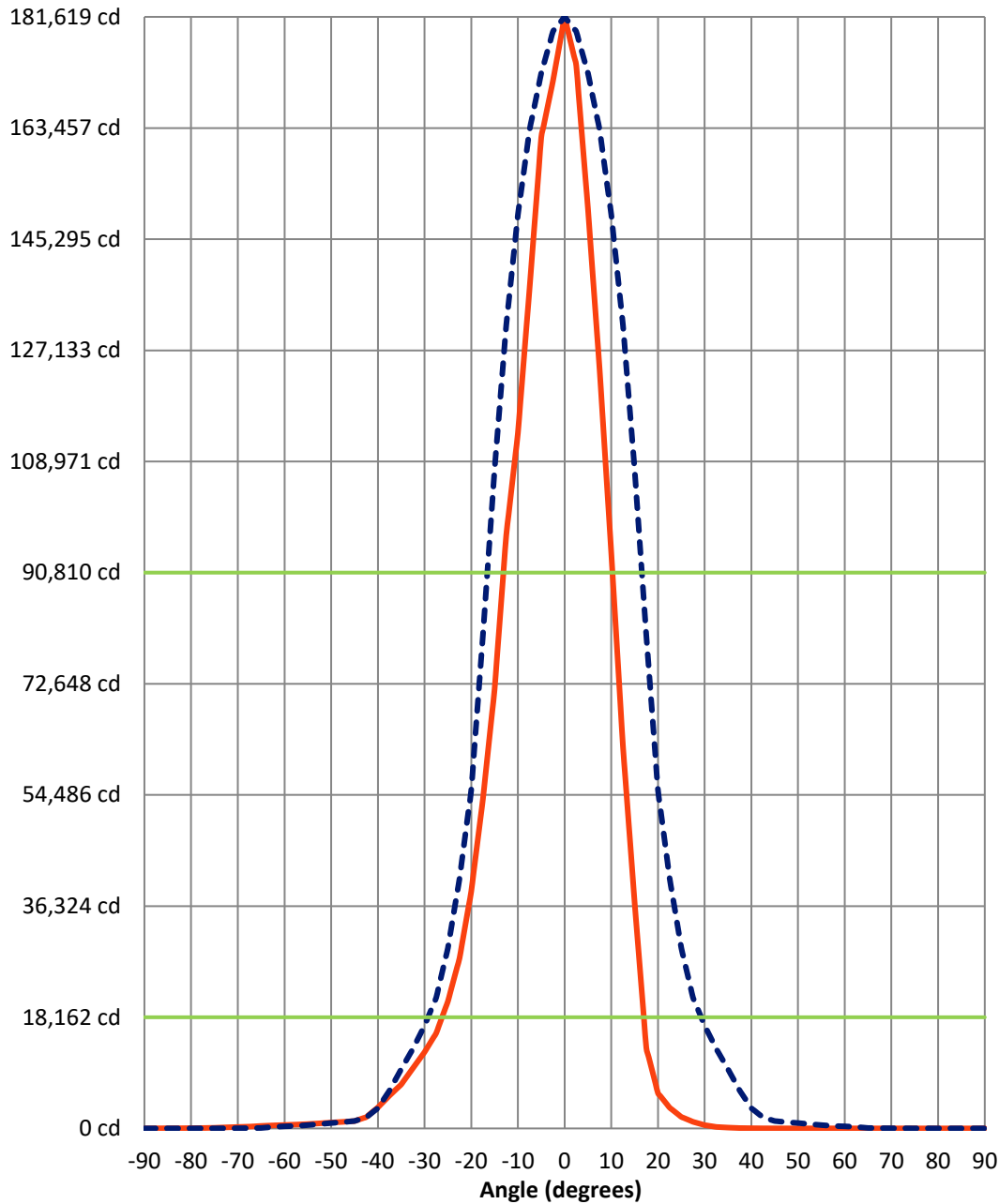
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 33.1°  
 V Angle: 23.4°  
 Lumens: 24258.2  
 Efficiency: 50.6%

**Field:**  
 H Angle: 58.5°  
 V Angle: 43.2°  
 Lumens: 41347.7  
 Efficiency: 86.2%

**Spill:**  
 Lumens: 6596.5  
 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°	6.6	7.4	8.3	7.9	7.5	7.0	6.6	7.0	7.5	7.9	8.3
87.5°	6.6	6.7	6.7	6.8	6.9	7.0	7.0	7.0	6.9	6.8	6.6
85°	6.6	6.7	6.9	7.0	7.2	7.3	7.5	7.4	7.2	6.9	6.6
82.5°	6.6	6.8	7.0	7.3	7.5	7.7	7.9	7.8	7.5	7.2	7.1
80°	6.6	6.9	7.2	7.5	7.8	8.1	8.3	8.0	7.8	7.7	7.8
77.5°	6.6	7.0	7.3	7.7	8.1	8.3	8.3	8.1	8.1	8.2	8.3
75°	6.6	7.0	7.5	7.9	8.3	8.3	8.3	8.2	8.3	8.3	8.3
72.5°	6.6	7.1	7.6	8.1	8.3	8.3	8.3	8.3	8.3	8.3	8.3
70°	6.6	7.2	7.8	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
67.5°	6.6	7.3	7.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
65°	6.6	7.3	8.0	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
62.5°	6.6	7.4	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
60°	6.6	7.4	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
57.5°	6.6	7.5	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
55°	6.6	7.6	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
52.5°	6.6	7.6	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
50°	6.6	7.7	8.3	8.3	8.3	8.3	8.3	8.4	8.3	8.3	9.0
47.5°	6.6	7.7	8.3	8.3	8.3	8.3	8.3	8.5	8.3	8.3	9.7
45°	6.6	7.8	8.3	8.3	8.3	8.3	8.4	8.7	8.4	8.8	10.4
42.5°	6.6	7.9	8.3	8.3	8.3	8.3	8.6	8.8	8.5	9.2	10.8
40°	6.6	7.9	8.3	8.3	8.3	8.3	8.8	8.9	8.7	9.6	11.1
37.5°	6.6	7.9	8.3	8.3	8.3	8.3	9.0	9.0	9.2	10.2	11.5
35°	6.6	8.0	8.3	8.3	8.3	8.4	9.2	9.1	9.6	10.9	11.8
32.5°	6.6	8.0	8.3	8.3	8.3	8.6	9.4	9.2	10.1	11.9	13.0
30°	6.6	8.1	8.3	8.3	8.3	8.7	9.5	9.3	10.5	12.9	14.4
27.5°	6.6	8.1	8.3	8.3	8.3	8.9	9.6	9.7	11.1	14.1	16.0
25°	6.6	8.1	8.3	8.3	8.3	9.1	9.7	10.0	12.0	15.4	17.9
22.5°	6.6	8.2	8.3	8.3	8.3	9.3	9.8	10.4	13.0	16.9	21.3
20°	6.6	8.2	8.3	8.3	8.3	9.4	9.9	10.7	14.0	18.4	25.0
17.5°	6.6	8.2	8.3	8.3	8.3	9.5	10.0	11.0	15.1	20.0	28.9
15°	6.6	8.2	8.3	8.3	8.3	9.6	10.2	11.5	16.1	21.6	32.9
12.5°	6.6	8.3	8.3	8.3	8.3	9.7	10.4	12.3	17.7	23.3	37.0
10°	6.6	8.3	8.3	8.3	8.3	9.8	10.6	13.1	19.5	26.6	42.2
7.5°	6.6	8.3	8.3	8.3	8.3	9.8	10.9	14.0	21.4	30.4	50.1
5°	6.6	8.3	8.3	8.3	8.3	9.9	11.1	14.9	23.2	34.2	58.0
2.5°	6.6	8.3	8.3	8.3	8.3	9.9	11.4	15.8	24.9	37.9	65.7
0°	6.6	8.3	8.3	8.3	8.3	9.9	11.6	16.6	26.5	41.4	72.9
-2.5°	6.6	8.3	8.3	8.3	8.3	10.1	12.7	18.9	31.2	50.2	86.1
-5°	6.6	8.3	8.3	8.3	8.3	10.2	13.7	21.1	35.7	58.4	98.3
-7.5°	6.6	8.3	8.3	8.3	8.3	10.4	14.7	23.1	39.8	66.0	109.5
-10°	6.6	8.3	8.3	8.3	8.3	10.5	15.5	24.9	43.4	72.7	119.3
-12.5°	6.6	8.3	8.3	8.3	8.3	10.5	16.2	26.5	46.4	78.5	127.9
-15°	6.6	8.2	8.3	8.3	8.3	10.5	16.7	27.8	49.2	84.1	135.1
-17.5°	6.6	8.2	8.3	8.3	8.3	10.5	17.0	29.1	51.8	88.3	140.5
-20°	6.6	8.2	8.3	8.3	8.3	10.4	17.3	30.4	53.5	91.1	143.9



REPORT NUMBER: P731488 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-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°	6.6	8.2	8.3	8.3	8.3	10.3	17.7	31.3	54.1	92.3	145.1
-25°	6.6	8.2	8.3	8.3	8.3	10.3	17.8	31.7	53.6	91.8	144.1
-27.5°	6.6	8.2	8.3	8.3	8.3	10.3	17.5	31.6	51.8	90.2	143.2
-30°	6.6	8.1	8.3	8.3	8.3	10.2	16.9	31.0	50.6	88.1	140.2
-32.5°	6.6	8.1	8.3	8.3	8.4	9.9	15.9	30.3	49.9	84.3	134.7
-35°	6.6	8.1	8.3	8.3	8.6	9.5	15.3	29.0	48.4	78.7	126.9
-37.5°	6.6	8.1	8.3	8.3	8.7	9.2	14.8	27.3	46.2	71.2	114.3
-40°	6.6	8.0	8.3	8.3	8.8	9.3	14.0	25.0	43.2	66.4	101.7
-42.5°	6.6	8.0	8.3	8.3	8.9	9.5	13.1	22.1	39.9	60.9	88.2
-45°	6.6	8.0	8.3	8.4	8.9	9.6	11.9	19.5	35.9	54.6	74.9
-47.5°	6.6	8.0	8.3	8.4	9.0	9.7	10.6	17.9	31.2	47.5	67.0
-50°	6.6	7.9	8.3	8.4	9.0	9.8	10.5	15.9	25.2	40.7	58.2
-52.5°	6.6	7.9	8.3	8.4	9.0	9.9	10.6	13.7	21.2	33.4	49.0
-55°	6.6	7.9	8.3	8.4	9.0	9.9	10.7	11.4	18.1	25.6	40.2
-57.5°	6.6	7.8	8.3	8.4	8.9	9.8	10.9	11.6	14.9	21.2	30.9
-60°	6.6	7.8	8.3	8.4	8.9	9.7	10.9	11.6	12.4	17.6	23.1
-62.5°	6.6	7.8	8.3	8.4	8.8	9.6	10.7	11.6	12.2	14.1	19.3
-65°	6.6	7.8	8.3	8.4	8.7	9.4	10.4	11.5	11.9	12.9	15.4
-67.5°	6.6	7.7	8.3	8.3	8.7	9.2	10.1	11.0	11.6	12.3	13.6
-70°	6.6	7.7	8.3	8.3	8.6	9.1	9.8	10.5	11.1	11.6	12.5
-72.5°	6.6	7.7	8.3	8.3	8.4	8.8	9.5	10.0	10.5	11.0	11.5
-75°	6.6	7.6	8.3	8.2	8.3	8.6	9.1	9.6	10.0	10.4	10.8
-77.5°	6.6	7.6	8.3	8.2	8.2	8.4	8.7	9.1	9.4	9.7	10.1
-80°	6.6	7.6	8.3	8.1	8.0	8.1	8.3	8.6	8.9	9.1	9.4
-82.5°	6.6	7.6	8.3	8.0	7.9	7.9	7.9	8.2	8.3	8.5	8.7
-85°	6.6	7.5	8.3	8.0	7.7	7.6	7.5	7.8	8.0	8.2	8.3
-87.5°	6.6	7.5	8.3	7.9	7.6	7.3	7.0	7.4	7.7	8.0	8.3
-90°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6





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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	7.9	7.5	7.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.2	5.8	5.4
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.4	6.2	6.1
82.5°	7.1	7.0	6.9	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
80°	7.7	7.5	7.1	6.7	6.6	6.6	6.6	6.6	6.6	6.6	6.6
77.5°	8.0	7.6	7.1	6.7	6.6	6.6	6.6	6.6	6.6	6.6	6.6
75°	8.0	7.6	7.2	6.8	6.6	6.6	6.6	7.0	7.2	7.2	7.0
72.5°	8.1	7.6	7.2	6.8	7.0	7.4	7.8	8.1	8.5	8.8	9.0
70°	8.1	7.7	7.5	7.6	8.0	8.5	9.2	10.1	11.0	11.6	12.6
67.5°	8.2	8.0	8.1	8.4	8.9	9.7	10.8	13.0	15.2	16.6	17.9
65°	8.3	8.2	8.5	9.0	9.8	11.9	14.4	17.0	21.1	23.5	24.5
62.5°	8.3	8.4	8.8	10.0	12.4	15.0	18.3	22.9	28.5	32.2	32.4
60°	8.3	8.5	9.8	12.2	14.8	18.1	22.6	28.8	36.9	43.0	39.1
57.5°	8.3	9.3	11.6	14.1	17.0	20.6	26.5	34.4	42.1	50.3	43.1
55°	8.7	10.6	12.9	15.4	18.7	22.7	28.8	35.5	43.9	46.4	38.2
52.5°	9.8	11.7	13.7	16.5	20.1	23.6	27.5	33.3	35.9	36.4	30.4
50°	10.8	12.3	14.1	17.2	20.7	23.2	24.1	27.4	27.6	25.1	21.8
47.5°	11.4	12.8	14.3	17.5	20.7	22.2	21.7	21.0	19.2	17.8	13.9
45°	11.8	13.3	14.7	17.9	20.5	21.0	19.1	15.2	15.8	14.1	13.1
42.5°	12.3	13.7	15.9	18.4	20.1	20.0	17.2	16.0	14.9	14.6	14.2
40°	12.7	14.2	17.5	19.7	20.2	19.5	19.6	18.7	16.2	17.2	17.4
37.5°	13.0	15.8	19.7	23.1	20.8	21.9	23.4	23.8	22.5	21.9	24.2
35°	13.4	17.5	24.1	27.8	25.7	26.5	29.7	31.0	31.3	31.2	32.9
32.5°	14.5	19.4	30.0	33.6	34.6	35.1	37.3	40.5	44.1	45.6	43.7
30°	16.8	24.8	36.7	40.6	44.9	51.1	49.7	52.1	60.2	63.5	66.6
27.5°	20.6	31.9	43.4	50.0	57.7	71.8	76.8	71.7	78.6	85.2	95.2
25°	24.9	49.8	51.0	60.7	78.0	99.3	112.8	118.6	103.2	114.6	141.4
22.5°	34.5	73.1	77.8	72.2	101.6	132.9	159.6	173.9	172.0	160.9	196.8
20°	51.6	96.8	109.3	111.7	134.0	171.5	213.1	237.4	260.4	300.4	405.7
17.5°	71.6	123.0	142.7	162.8	203.4	236.7	272.3	308.3	362.9	482.0	839.2
15°	93.8	151.2	177.7	218.3	278.8	334.4	377.8	410.1	506.5	756.3	1387.9
12.5°	117.5	181.0	213.7	277.1	358.2	437.2	498.8	564.0	726.1	1217.3	2260.2
10°	141.8	211.6	250.4	337.9	440.2	543.3	623.1	721.3	974.6	1739.1	3212.3
7.5°	168.8	244.3	287.8	399.3	523.3	650.7	749.1	879.8	1228.3	2266.5	4170.4
5°	195.0	278.5	327.7	452.4	593.2	745.2	866.7	1036.5	1479.2	2777.6	5101.5
2.5°	219.1	311.7	366.7	500.8	651.9	817.0	947.0	1130.3	1653.0	3113.5	5786.8
0°	240.3	343.0	404.4	545.2	706.0	883.3	1022.5	1216.4	1793.1	3316.1	6196.4
-2.5°	248.4	355.1	419.9	556.5	713.5	894.6	1036.4	1223.9	1836.1	3398.3	6256.7
-5°	253.0	364.3	433.4	563.8	716.1	898.9	1044.6	1223.8	1825.4	3327.1	5962.6
-7.5°	254.4	370.6	444.9	564.7	702.6	870.1	1003.8	1159.6	1681.5	3033.0	5328.5
-10°	253.0	369.6	441.5	543.9	667.5	819.4	949.0	1089.4	1515.6	2664.0	4623.4
-12.5°	248.3	362.9	434.9	521.9	631.2	764.9	891.5	1014.6	1331.4	2224.7	3897.1
-15°	242.1	354.9	427.9	499.6	594.6	707.7	832.2	936.0	1139.7	1756.1	3176.3
-17.5°	234.7	346.0	421.1	477.6	558.8	648.5	774.3	870.5	998.3	1457.4	2596.2
-20°	226.5	336.6	414.6	456.7	525.4	603.5	718.5	816.3	924.3	1221.9	1974.2



REPORT NUMBER: P731488 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	218.0	327.0	405.1	445.1	503.5	572.6	662.3	758.9	849.2	961.9	1446.2
-25°	213.8	312.9	391.0	437.2	483.0	542.5	608.0	698.7	779.3	887.6	1167.0
-27.5°	211.7	299.6	374.4	428.3	463.1	515.1	569.3	639.4	731.7	827.4	928.7
-30°	206.8	280.0	357.3	416.0	450.4	492.7	538.2	597.6	685.8	774.2	863.7
-32.5°	194.6	259.1	335.3	396.2	438.8	471.7	515.9	570.3	641.2	722.3	802.7
-35°	178.9	240.8	310.4	376.5	425.5	457.5	497.6	544.4	599.8	672.6	758.4
-37.5°	163.3	220.4	284.4	352.8	404.1	446.2	478.2	520.7	568.9	626.6	711.1
-40°	145.7	198.1	259.3	323.5	383.6	429.8	465.4	497.6	539.2	595.9	656.3
-42.5°	127.0	176.9	232.9	293.0	352.8	405.7	450.9	481.2	516.6	565.6	620.8
-45°	111.1	153.6	204.8	260.2	316.5	374.8	422.9	467.0	499.2	536.5	585.6
-47.5°	94.2	130.3	176.9	225.3	278.3	333.0	389.2	435.9	481.4	515.4	550.2
-50°	78.5	110.8	146.5	191.5	238.2	289.1	341.5	397.0	444.7	488.7	526.5
-52.5°	67.8	90.3	121.9	157.4	199.4	243.6	292.7	343.6	396.1	446.0	485.4
-55°	56.3	75.3	97.7	127.8	161.6	200.5	242.6	289.5	335.8	384.7	429.6
-57.5°	45.2	61.5	78.9	100.1	128.5	159.0	196.2	235.1	277.5	319.4	355.1
-60°	34.2	48.3	63.8	79.6	97.1	123.7	150.7	183.5	219.5	254.4	285.7
-62.5°	24.1	35.7	49.2	63.3	77.4	91.2	112.9	137.4	162.0	191.4	218.9
-65°	20.0	24.9	34.8	47.2	60.0	72.8	85.2	97.3	117.7	138.4	157.7
-67.5°	15.8	20.2	24.8	31.0	42.2	53.6	65.4	76.5	87.3	97.8	109.9
-70°	14.0	15.8	19.4	23.6	27.8	33.5	43.5	53.8	64.5	75.1	84.4
-72.5°	12.7	14.4	16.0	17.7	21.1	24.7	28.2	31.6	38.3	47.5	56.8
-75°	11.6	12.9	14.4	16.0	17.4	18.9	20.7	23.7	26.8	29.9	33.1
-77.5°	10.6	11.4	12.6	14.0	15.3	16.4	17.7	19.0	20.4	21.9	23.5
-80°	9.6	9.9	10.5	11.3	12.4	13.5	14.6	15.6	16.6	17.7	18.8
-82.5°	8.9	9.1	9.3	9.4	9.9	10.5	11.3	12.1	12.7	13.3	13.9
-85°	8.3	8.3	8.4	8.5	8.7	9.0	9.3	9.7	9.9	10.1	10.2
-87.5°	8.1	7.9	7.7	7.6	7.6	7.7	7.7	7.8	7.9	7.9	7.9
-90°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.2	5.8	5.4



REPORT NUMBER: P731488 (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°	6.6	7.4	8.2	9.1	9.9	10.7	11.6	12.5	13.3	14.1	14.9
87.5°	5.0	5.0	5.0	5.0	5.0	4.6	4.2	3.7	3.3	2.9	2.5
85°	6.0	5.8	5.6	5.3	5.0	4.6	4.2	3.7	3.3	2.9	2.5
82.5°	6.6	6.2	5.8	5.4	5.0	4.6	4.2	3.7	3.3	2.9	2.5
80°	6.6	6.3	5.9	5.5	5.1	4.6	4.2	3.8	3.3	2.9	2.5
77.5°	6.6	6.3	5.9	5.5	5.1	4.7	4.2	3.8	3.4	3.3	3.2
75°	6.7	6.5	6.4	6.2	5.9	5.6	5.3	5.0	4.7	4.5	4.1
72.5°	9.1	9.1	8.8	8.6	8.1	7.7	7.4	7.0	6.4	6.0	5.7
70°	13.6	14.1	13.7	12.8	11.3	10.1	9.5	8.8	8.1	7.5	6.7
67.5°	18.9	18.9	17.5	15.8	13.4	11.3	10.4	9.6	8.7	8.2	8.1
65°	24.4	22.8	20.5	17.8	14.6	11.5	10.6	9.7	8.8	8.3	8.3
62.5°	30.6	25.6	20.6	17.0	14.0	11.5	10.2	9.0	7.9	7.1	6.9
60°	32.9	24.4	17.6	14.6	12.2	10.2	8.9	7.9	7.1	6.6	6.6
57.5°	31.9	21.8	14.2	11.8	9.9	8.7	7.8	7.0	6.2	5.6	5.4
55°	27.2	17.8	10.6	9.1	8.2	7.2	6.4	6.0	5.5	5.0	5.0
52.5°	20.0	13.6	9.5	8.0	7.5	7.0	6.5	6.4	6.3	6.0	5.9
50°	14.6	10.6	9.1	8.2	7.8	7.8	8.1	8.1	7.9	7.7	7.5
47.5°	11.9	10.3	9.3	8.4	8.6	9.3	9.7	9.7	9.6	9.4	9.1
45°	11.5	10.6	10.1	10.6	11.2	11.6	11.6	11.4	11.9	12.1	11.8
42.5°	12.7	12.8	13.8	14.6	14.0	15.0	16.0	16.0	16.8	17.3	17.3
40°	17.8	17.4	20.0	20.7	21.1	22.1	24.9	24.6	25.9	29.4	30.1
37.5°	25.6	27.0	28.7	30.3	34.7	37.6	43.1	47.6	49.9	56.6	61.7
35°	36.1	39.7	40.7	49.5	58.5	67.1	74.8	84.1	88.1	102.9	113.2
32.5°	51.2	58.6	68.6	83.1	100.3	120.7	119.8	150.9	162.2	192.5	227.3
30°	71.6	92.3	125.4	148.4	190.6	223.7	240.5	289.0	354.1	416.4	501.2
27.5°	116.3	160.1	220.0	299.0	340.2	390.1	465.7	523.7	672.4	814.5	918.9
25°	200.1	292.0	405.1	521.7	594.8	660.3	798.4	899.7	1110.6	1269.0	1494.9
22.5°	382.6	579.1	722.2	808.8	965.5	1170.5	1270.0	1548.6	1861.4	2260.6	2590.6
20°	644.7	953.9	1272.7	1467.4	1646.4	2098.9	2297.1	2819.0	3483.8	4235.2	4861.6
17.5°	1261.6	1544.1	2193.1	2825.4	3301.1	3747.8	5001.6	5897.2	7635.6	9763.1	10744.4
15°	2263.8	3053.5	3810.7	4957.7	6171.6	7522.0	9489.5	12886.4	17152.9	21805.2	26837.3
12.5°	3670.0	5111.5	6466.1	7909.9	9647.6	12965.9	17451.9	23384.7	31050.7	39275.7	48772.5
10°	5249.7	7443.5	9422.1	11601.9	14687.5	19617.2	26266.3	35418.5	49070.6	63025.5	75130.0
7.5°	6664.5	9321.3	12005.2	15160.3	20051.2	27092.0	36658.1	50948.1	68776.3	86045.7	100770.5
5°	8020.1	11123.9	14183.0	17943.5	24107.6	33296.6	45676.9	65281.1	87819.1	106980.8	123118.5
2.5°	9076.4	12534.4	16035.1	20457.8	27490.5	37945.5	52007.1	75735.4	102937.7	124188.9	142641.5
0°	9681.5	12997.6	16797.7	21379.9	29472.2	40860.6	55281.8	80548.0	107638.7	131255.1	149288.2
-2.5°	9563.0	13037.9	16922.7	21558.4	29228.5	40162.4	54378.6	78480.7	105444.3	126734.1	144207.9
-5°	8959.3	12138.5	15563.6	19630.6	26398.6	36361.5	50319.8	72969.2	97992.9	119287.9	137047.3
-7.5°	8017.9	10829.3	13810.9	17350.7	23074.6	31743.8	43741.9	61377.2	83548.3	102834.9	116145.9
-10°	6990.4	9464.2	12154.8	15358.2	19872.8	26669.0	35759.7	48499.1	66632.3	82703.3	95050.2
-12.5°	6016.2	8265.1	10605.7	13280.6	16697.7	22050.6	28959.8	38470.7	50159.8	63370.4	75982.0
-15°	5081.9	7056.8	9099.3	11575.3	14547.0	18178.8	22823.6	29222.7	36902.3	45560.8	54901.1
-17.5°	4192.5	5926.5	7848.2	10010.2	12465.9	15240.6	19136.1	23524.1	28399.5	34041.1	39389.8
-20°	3289.1	4891.4	6635.1	8559.9	10763.1	13292.6	16064.4	19360.5	22887.8	26742.3	30743.5



REPORT NUMBER: P731488 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2510.3	3875.6	5401.3	7153.6	9222.1	11451.8	13601.8	15765.3	18374.8	20917.0	23470.1
-25°	1757.9	2840.6	4265.1	5940.2	7696.6	9560.1	11155.8	12680.8	14492.9	16122.7	17819.9
-27.5°	1292.9	2036.7	3214.8	4700.4	6275.6	7553.8	8897.3	10148.1	11460.3	12494.7	13690.2
-30°	985.9	1414.2	2289.6	3448.4	4712.2	5826.0	6862.9	7995.6	9074.5	9972.5	10724.1
-32.5°	899.2	1062.4	1505.5	2312.7	3226.3	4214.6	5111.6	6097.6	7002.7	7749.6	8347.8
-35°	845.0	933.5	1062.8	1470.2	2005.9	2786.1	3534.7	4342.1	5092.3	5708.5	6203.9
-37.5°	798.8	876.5	952.7	1029.3	1324.4	1653.4	2193.7	2778.2	3284.9	3848.4	4288.2
-40°	741.5	828.7	890.3	953.2	1024.1	1106.4	1391.5	1647.5	1934.0	2331.8	2661.1
-42.5°	678.5	752.1	828.9	890.5	945.2	1003.3	1067.8	1131.9	1263.6	1430.8	1566.9
-45°	637.3	685.7	741.5	811.5	875.3	923.7	971.7	1018.2	1062.2	1101.8	1134.9
-47.5°	592.8	633.9	679.1	727.2	774.5	828.3	878.7	920.9	954.3	986.2	1014.7
-50°	553.1	583.5	621.7	659.0	696.3	734.5	772.2	804.8	837.0	866.1	894.4
-52.5°	521.1	546.7	571.8	596.8	627.1	656.6	684.5	709.5	732.4	752.2	773.1
-55°	467.1	499.4	531.5	553.8	572.9	591.4	609.7	630.5	648.6	664.2	678.9
-57.5°	393.8	432.9	468.6	494.8	519.5	542.8	559.0	570.9	582.4	593.3	603.3
-60°	316.1	345.4	379.5	413.1	444.0	472.0	490.1	505.5	518.5	529.4	539.1
-62.5°	244.3	269.4	297.3	324.3	349.2	373.9	397.9	418.8	436.7	451.9	464.4
-65°	177.9	199.9	223.6	246.6	268.5	290.2	310.1	328.2	344.5	359.2	372.7
-67.5°	126.7	142.8	160.0	175.5	193.0	212.0	230.7	247.5	262.4	274.2	283.1
-70°	93.2	102.3	113.6	127.0	141.5	155.1	168.6	181.5	193.8	204.4	214.0
-72.5°	66.2	75.6	84.6	93.1	102.0	111.0	120.2	129.7	139.4	147.6	154.6
-75°	36.3	41.0	48.6	56.0	63.2	70.1	76.2	81.5	86.2	90.1	93.4
-77.5°	25.8	28.9	32.0	35.1	38.1	41.7	45.5	49.3	53.1	56.1	58.9
-80°	19.9	21.6	23.5	25.5	27.5	30.0	32.6	35.2	37.8	39.6	41.3
-82.5°	14.6	15.8	17.1	18.4	19.6	21.1	22.7	24.3	25.8	26.8	27.8
-85°	10.4	11.2	12.1	13.0	13.9	15.3	16.8	18.2	19.5	20.5	21.4
-87.5°	8.0	8.5	9.0	9.4	9.9	11.1	12.3	13.6	14.8	15.3	15.7
-90°	5.0	5.0	5.0	5.0	5.0	4.6	4.2	3.7	3.3	2.9	2.5



REPORT NUMBER: P731488 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-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°	15.8	16.6	16.6	16.6	16.6	16.6	15.8	14.9	14.1	13.3	12.5
87.5°	2.1	1.7	1.7	1.7	1.7	1.7	2.1	2.5	2.9	3.3	3.7
85°	2.1	1.7	1.7	1.7	1.7	1.7	2.1	2.5	2.9	3.3	3.7
82.5°	2.1	1.7	1.7	1.7	1.7	1.7	2.1	2.5	2.9	3.3	3.7
80°	2.1	1.7	1.7	1.7	1.7	1.7	2.1	2.5	2.9	3.3	3.8
77.5°	3.2	3.3	2.5	1.7	2.5	3.3	3.2	3.2	3.3	3.4	3.8
75°	3.7	3.3	2.5	1.7	2.5	3.3	3.7	4.1	4.5	4.7	5.0
72.5°	5.4	5.0	5.0	5.0	5.0	5.0	5.4	5.7	6.0	6.4	7.0
70°	5.9	5.1	5.0	5.0	5.0	5.1	5.9	6.7	7.5	8.1	8.8
67.5°	8.1	8.2	8.3	8.3	8.3	8.2	8.1	8.1	8.2	8.7	9.6
65°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.8	9.7
62.5°	6.8	6.7	6.6	6.6	6.6	6.7	6.8	6.9	7.1	7.9	9.0
60°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	7.1	7.9
57.5°	5.2	5.1	5.0	5.0	5.0	5.1	5.2	5.4	5.6	6.2	7.0
55°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.5	6.0
52.5°	5.6	5.2	5.0	5.0	5.0	5.2	5.6	5.9	6.0	6.3	6.4
50°	7.1	6.7	6.6	6.6	6.6	6.7	7.1	7.5	7.7	7.9	8.1
47.5°	8.8	8.4	8.3	8.3	8.3	8.4	8.8	9.1	9.4	9.6	9.7
45°	11.3	10.4	9.9	9.9	9.9	10.4	11.3	11.8	12.1	11.9	11.4
42.5°	17.2	16.8	16.4	16.6	16.4	16.8	17.2	17.3	17.3	16.8	16.0
40°	31.5	32.3	32.7	33.1	32.7	32.3	31.5	30.1	29.4	25.9	24.6
37.5°	64.6	63.4	60.5	61.3	60.5	63.4	64.6	61.7	56.6	49.9	47.6
35°	119.9	127.1	132.1	135.9	132.1	127.1	119.9	113.2	102.9	88.1	84.1
32.5°	240.2	250.0	247.2	242.0	247.2	250.0	240.2	227.3	192.5	162.2	150.9
30°	551.3	580.1	572.3	538.6	572.3	580.1	551.3	501.2	416.4	354.1	289.0
27.5°	993.9	1063.4	1108.7	1085.5	1108.7	1063.4	993.9	918.9	814.5	672.4	523.7
25°	1689.8	1824.8	1921.4	1881.0	1921.4	1824.8	1689.8	1494.9	1269.0	1110.6	899.7
22.5°	3004.5	3226.2	3357.9	3392.3	3357.9	3226.2	3004.5	2590.6	2260.6	1861.4	1548.6
20°	5649.5	5826.3	5861.4	5773.8	5861.4	5826.3	5649.5	4861.6	4235.2	3483.8	2819.0
17.5°	13593.4	14409.8	13811.3	13183.3	13811.3	14409.8	13593.4	10744.4	9763.1	7635.6	5897.2
15°	31095.4	34543.2	36507.4	36908.1	36507.4	34543.2	31095.4	26837.3	21805.2	17152.9	12886.4
12.5°	54791.9	60348.2	62641.2	62427.0	62641.2	60348.2	54791.9	48772.5	39275.7	31050.7	23384.7
10°	82894.7	88835.0	93946.3	93998.0	93946.3	88835.0	82894.7	75130.0	63025.5	49070.6	35418.5
7.5°	110991.0	117841.7	122650.3	124022.1	122650.3	117841.7	110991.0	100770.5	86045.7	68776.3	50948.1
5°	135587.5	144069.2	148843.0	150300.7	148843.0	144069.2	135587.5	123118.5	106980.8	87819.1	65281.1
2.5°	157212.7	167603.1	172838.9	173652.8	172838.9	167603.1	157212.7	142641.5	124188.9	102937.7	75735.4
0°	163162.5	172424.7	179205.3	181619.1	179205.3	172424.7	163162.5	149288.2	131255.1	107638.7	80548.0
-2.5°	157296.8	165400.3	169441.5	171127.1	169441.5	165400.3	157296.8	144207.9	126734.1	105444.3	78480.7
-5°	148025.1	155587.4	160734.2	161926.2	160734.2	155587.4	148025.1	137047.3	119287.9	97992.9	72969.2
-7.5°	124925.1	132368.7	134681.3	137303.1	134681.3	132368.7	124925.1	116145.9	102834.9	83548.3	61377.2
-10°	104377.4	110167.9	111760.5	113618.0	111760.5	110167.9	104377.4	95050.2	82703.3	66632.3	48499.1
-12.5°	86363.4	92099.0	94695.7	96918.0	94695.7	92099.0	86363.4	75982.0	63370.4	50159.8	38470.7
-15°	63272.8	68663.8	70525.9	71728.2	70525.9	68663.8	63272.8	54901.1	45560.8	36902.3	29222.7
-17.5°	45833.8	49939.5	52379.2	53793.7	52379.2	49939.5	45833.8	39389.8	34041.1	28399.5	23524.1
-20°	34260.6	36613.4	38503.4	38711.2	38503.4	36613.4	34260.6	30743.5	26742.3	22887.8	19360.5



REPORT NUMBER: P731488 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	25609.2	27010.7	27880.7	27828.2	27880.7	27010.7	25609.2	23470.1	20917.0	18374.8	15765.3
-25°	19114.3	20056.5	20655.7	20763.4	20655.7	20056.5	19114.3	17819.9	16122.7	14492.9	12680.8
-27.5°	14546.0	15209.3	15553.0	15571.3	15553.0	15209.3	14546.0	13690.2	12494.7	11460.3	10148.1
-30°	11269.5	11822.0	12188.4	12469.0	12188.4	11822.0	11269.5	10724.1	9972.5	9074.5	7995.6
-32.5°	8850.6	9322.2	9642.0	9832.3	9642.0	9322.2	8850.6	8347.8	7749.6	7002.7	6097.6
-35°	6635.3	7013.0	7239.0	7182.4	7239.0	7013.0	6635.3	6203.9	5708.5	5092.3	4342.1
-37.5°	4675.6	4995.8	5223.6	5367.8	5223.6	4995.8	4675.6	4288.2	3848.4	3284.9	2778.2
-40°	2946.1	3167.6	3325.1	3425.5	3325.1	3167.6	2946.1	2661.1	2331.8	1934.0	1647.5
-42.5°	1677.9	1760.7	1816.4	1846.2	1816.4	1760.7	1677.9	1566.9	1430.8	1263.6	1131.9
-45°	1160.4	1181.1	1196.1	1204.8	1196.1	1181.1	1160.4	1134.9	1101.8	1062.2	1018.2
-47.5°	1037.0	1053.9	1065.0	1070.6	1065.0	1053.9	1037.0	1014.7	986.2	954.3	920.9
-50°	919.9	940.8	953.3	957.9	953.3	940.8	919.9	894.4	866.1	837.0	804.8
-52.5°	792.7	809.6	820.9	827.0	820.9	809.6	792.7	773.1	752.2	732.4	709.5
-55°	691.7	702.5	708.0	709.3	708.0	702.5	691.7	678.9	664.2	648.6	630.5
-57.5°	611.8	618.7	624.2	628.1	624.2	618.7	611.8	603.3	593.3	582.4	570.9
-60°	546.9	552.8	555.9	556.8	555.9	552.8	546.9	539.1	529.4	518.5	505.5
-62.5°	474.1	481.3	486.8	490.5	486.8	481.3	474.1	464.4	451.9	436.7	418.8
-65°	385.0	395.7	401.5	404.4	401.5	395.7	385.0	372.7	359.2	344.5	328.2
-67.5°	290.1	295.6	296.9	296.6	296.9	295.6	290.1	283.1	274.2	262.4	247.5
-70°	222.8	231.0	233.9	235.3	233.9	231.0	222.8	214.0	204.4	193.8	181.5
-72.5°	161.1	166.8	170.1	172.4	170.1	166.8	161.1	154.6	147.6	139.4	129.7
-75°	96.2	98.5	100.0	101.1	100.0	98.5	96.2	93.4	90.1	86.2	81.5
-77.5°	61.6	64.1	65.3	66.3	65.3	64.1	61.6	58.9	56.1	53.1	49.3
-80°	42.9	44.4	44.6	44.7	44.6	44.4	42.9	41.3	39.6	37.8	35.2
-82.5°	28.8	29.7	29.8	29.8	29.8	29.7	28.8	27.8	26.8	25.8	24.3
-85°	22.3	23.1	23.2	23.2	23.2	23.1	22.3	21.4	20.5	19.5	18.2
-87.5°	16.2	16.6	17.4	18.2	17.4	16.6	16.2	15.7	15.3	14.8	13.6
-90°	2.1	1.7	0.9	0.0	0.9	1.7	2.1	2.5	2.9	3.3	3.7



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	11.6	10.7	9.9	9.1	8.2	7.4	6.6	6.6	6.6	6.6	6.6
87.5°	4.2	4.6	5.0	5.0	5.0	5.0	5.0	5.4	5.8	6.2	6.6
85°	4.2	4.6	5.0	5.3	5.6	5.8	6.0	6.1	6.2	6.4	6.6
82.5°	4.2	4.6	5.0	5.4	5.8	6.2	6.6	6.6	6.6	6.6	6.6
80°	4.2	4.6	5.1	5.5	5.9	6.3	6.6	6.6	6.6	6.6	6.6
77.5°	4.2	4.7	5.1	5.5	5.9	6.3	6.6	6.6	6.6	6.6	6.6
75°	5.3	5.6	5.9	6.2	6.4	6.5	6.7	7.0	7.2	7.2	7.0
72.5°	7.4	7.7	8.1	8.6	8.8	9.1	9.1	9.0	8.8	8.5	8.1
70°	9.5	10.1	11.3	12.8	13.7	14.1	13.6	12.6	11.6	11.0	10.1
67.5°	10.4	11.3	13.4	15.8	17.5	18.9	18.9	17.9	16.6	15.2	13.0
65°	10.6	11.5	14.6	17.8	20.5	22.8	24.4	24.5	23.5	21.1	17.0
62.5°	10.2	11.5	14.0	17.0	20.6	25.6	30.6	32.4	32.2	28.5	22.9
60°	8.9	10.2	12.2	14.6	17.6	24.4	32.9	39.1	43.0	36.9	28.8
57.5°	7.8	8.7	9.9	11.8	14.2	21.8	31.9	43.1	50.3	42.1	34.4
55°	6.4	7.2	8.2	9.1	10.6	17.8	27.2	38.2	46.4	43.9	35.5
52.5°	6.5	7.0	7.5	8.0	9.5	13.6	20.0	30.4	36.4	35.9	33.3
50°	8.1	7.8	7.8	8.2	9.1	10.6	14.6	21.8	25.1	27.6	27.4
47.5°	9.7	9.3	8.6	8.4	9.3	10.3	11.9	13.9	17.8	19.2	21.0
45°	11.6	11.6	11.2	10.6	10.1	10.6	11.5	13.1	14.1	15.8	15.2
42.5°	16.0	15.0	14.0	14.6	13.8	12.8	12.7	14.2	14.6	14.9	16.0
40°	24.9	22.1	21.1	20.7	20.0	17.4	17.8	17.4	17.2	16.2	18.7
37.5°	43.1	37.6	34.7	30.3	28.7	27.0	25.6	24.2	21.9	22.5	23.8
35°	74.8	67.1	58.5	49.5	40.7	39.7	36.1	32.9	31.2	31.3	31.0
32.5°	119.8	120.7	100.3	83.1	68.6	58.6	51.2	43.7	45.6	44.1	40.5
30°	240.5	223.7	190.6	148.4	125.4	92.3	71.6	66.6	63.5	60.2	52.1
27.5°	465.7	390.1	340.2	299.0	220.0	160.1	116.3	95.2	85.2	78.6	71.7
25°	798.4	660.3	594.8	521.7	405.1	292.0	200.1	141.4	114.6	103.2	118.6
22.5°	1270.0	1170.5	965.5	808.8	722.2	579.1	382.6	196.8	160.9	172.0	173.9
20°	2297.1	2098.9	1646.4	1467.4	1272.7	953.9	644.7	405.7	300.4	260.4	237.4
17.5°	5001.6	3747.8	3301.1	2825.4	2193.1	1544.1	1261.6	839.2	482.0	362.9	308.3
15°	9489.5	7522.0	6171.6	4957.7	3810.7	3053.5	2263.8	1387.9	756.3	506.5	410.1
12.5°	17451.9	12965.9	9647.6	7909.9	6466.1	5111.5	3670.0	2260.2	1217.3	726.1	564.0
10°	26266.3	19617.2	14687.5	11601.9	9422.1	7443.5	5249.7	3212.3	1739.1	974.6	721.3
7.5°	36658.1	27092.0	20051.2	15160.3	12005.2	9321.3	6664.5	4170.4	2266.5	1228.3	879.8
5°	45676.9	33296.6	24107.6	17943.5	14183.0	11123.9	8020.1	5101.5	2777.6	1479.2	1036.5
2.5°	52007.1	37945.5	27490.5	20457.8	16035.1	12534.4	9076.4	5786.8	3113.5	1653.0	1130.3
0°	55281.8	40860.6	29472.2	21379.9	16797.7	12997.6	9681.5	6196.4	3316.1	1793.1	1216.4
-2.5°	54378.6	40162.4	29228.5	21558.4	16922.7	13037.9	9563.0	6256.7	3398.3	1836.1	1223.9
-5°	50319.8	36361.5	26398.6	19630.6	15563.6	12138.5	8959.3	5962.6	3327.1	1825.4	1223.8
-7.5°	43741.9	31743.8	23074.6	17350.7	13810.9	10829.3	8017.9	5328.5	3033.0	1681.5	1159.6
-10°	35759.7	26669.0	19872.8	15358.2	12154.8	9464.2	6990.4	4623.4	2664.0	1515.6	1089.4
-12.5°	28959.8	22050.6	16697.7	13280.6	10605.7	8265.1	6016.2	3897.1	2224.7	1331.4	1014.6
-15°	22823.6	18178.8	14547.0	11575.3	9099.3	7056.8	5081.9	3176.3	1756.1	1139.7	936.0
-17.5°	19136.1	15240.6	12465.9	10010.2	7848.2	5926.5	4192.5	2596.2	1457.4	998.3	870.5
-20°	16064.4	13292.6	10763.1	8559.9	6635.1	4891.4	3289.1	1974.2	1221.9	924.3	816.3



REPORT NUMBER: P731488 (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°	13601.8	11451.8	9222.1	7153.6	5401.3	3875.6	2510.3	1446.2	961.9	849.2	758.9
-25°	11155.8	9560.1	7696.6	5940.2	4265.1	2840.6	1757.9	1167.0	887.6	779.3	698.7
-27.5°	8897.3	7553.8	6275.6	4700.4	3214.8	2036.7	1292.9	928.7	827.4	731.7	639.4
-30°	6862.9	5826.0	4712.2	3448.4	2289.6	1414.2	985.9	863.7	774.2	685.8	597.6
-32.5°	5111.6	4214.6	3226.3	2312.7	1505.5	1062.4	899.2	802.7	722.3	641.2	570.3
-35°	3534.7	2786.1	2005.9	1470.2	1062.8	933.5	845.0	758.4	672.6	599.8	544.4
-37.5°	2193.7	1653.4	1324.4	1029.3	952.7	876.5	798.8	711.1	626.6	568.9	520.7
-40°	1391.5	1106.4	1024.1	953.2	890.3	828.7	741.5	656.3	595.9	539.2	497.6
-42.5°	1067.8	1003.3	945.2	890.5	828.9	752.1	678.5	620.8	565.6	516.6	481.2
-45°	971.7	923.7	875.3	811.5	741.5	685.7	637.3	585.6	536.5	499.2	467.0
-47.5°	878.7	828.3	774.5	727.2	679.1	633.9	592.8	550.2	515.4	481.4	435.9
-50°	772.2	734.5	696.3	659.0	621.7	583.5	553.1	526.5	488.7	444.7	397.0
-52.5°	684.5	656.6	627.1	596.8	571.8	546.7	521.1	485.4	446.0	396.1	343.6
-55°	609.7	591.4	572.9	553.8	531.5	499.4	467.1	429.6	384.7	335.8	289.5
-57.5°	559.0	542.8	519.5	494.8	468.6	432.9	393.8	355.1	319.4	277.5	235.1
-60°	490.1	472.0	444.0	413.1	379.5	345.4	316.1	285.7	254.4	219.5	183.5
-62.5°	397.9	373.9	349.2	324.3	297.3	269.4	244.3	218.9	191.4	162.0	137.4
-65°	310.1	290.2	268.5	246.6	223.6	199.9	177.9	157.7	138.4	117.7	97.3
-67.5°	230.7	212.0	193.0	175.5	160.0	142.8	126.7	109.9	97.8	87.3	76.5
-70°	168.6	155.1	141.5	127.0	113.6	102.3	93.2	84.4	75.1	64.5	53.8
-72.5°	120.2	111.0	102.0	93.1	84.6	75.6	66.2	56.8	47.5	38.3	31.6
-75°	76.2	70.1	63.2	56.0	48.6	41.0	36.3	33.1	29.9	26.8	23.7
-77.5°	45.5	41.7	38.1	35.1	32.0	28.9	25.8	23.5	21.9	20.4	19.0
-80°	32.6	30.0	27.5	25.5	23.5	21.6	19.9	18.8	17.7	16.6	15.6
-82.5°	22.7	21.1	19.6	18.4	17.1	15.8	14.6	13.9	13.3	12.7	12.1
-85°	16.8	15.3	13.9	13.0	12.1	11.2	10.4	10.2	10.1	9.9	9.7
-87.5°	12.3	11.1	9.9	9.4	9.0	8.5	8.0	7.9	7.9	7.9	7.8
-90°	4.2	4.6	5.0	5.0	5.0	5.0	5.0	5.4	5.8	6.2	6.6





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	6.6	6.6	6.6	6.6	7.0	7.5	7.9	8.3	7.9	7.5	7.0
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.8	6.9	7.0
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.9	7.2	7.4
82.5°	6.6	6.6	6.6	6.6	6.9	7.0	7.1	7.1	7.2	7.5	7.8
80°	6.6	6.6	6.6	6.7	7.1	7.5	7.7	7.8	7.7	7.8	8.0
77.5°	6.6	6.6	6.6	6.7	7.1	7.6	8.0	8.3	8.2	8.1	8.1
75°	6.6	6.6	6.6	6.8	7.2	7.6	8.0	8.3	8.3	8.3	8.2
72.5°	7.8	7.4	7.0	6.8	7.2	7.6	8.1	8.3	8.3	8.3	8.3
70°	9.2	8.5	8.0	7.6	7.5	7.7	8.1	8.3	8.3	8.3	8.3
67.5°	10.8	9.7	8.9	8.4	8.1	8.0	8.2	8.3	8.3	8.3	8.3
65°	14.4	11.9	9.8	9.0	8.5	8.2	8.3	8.3	8.3	8.3	8.3
62.5°	18.3	15.0	12.4	10.0	8.8	8.4	8.3	8.3	8.3	8.3	8.3
60°	22.6	18.1	14.8	12.2	9.8	8.5	8.3	8.3	8.3	8.3	8.3
57.5°	26.5	20.6	17.0	14.1	11.6	9.3	8.3	8.3	8.3	8.3	8.3
55°	28.8	22.7	18.7	15.4	12.9	10.6	8.7	8.3	8.3	8.3	8.3
52.5°	27.5	23.6	20.1	16.5	13.7	11.7	9.8	8.3	8.3	8.3	8.3
50°	24.1	23.2	20.7	17.2	14.1	12.3	10.8	9.0	8.3	8.3	8.4
47.5°	21.7	22.2	20.7	17.5	14.3	12.8	11.4	9.7	8.3	8.3	8.5
45°	19.1	21.0	20.5	17.9	14.7	13.3	11.8	10.4	8.8	8.4	8.7
42.5°	17.2	20.0	20.1	18.4	15.9	13.7	12.3	10.8	9.2	8.5	8.8
40°	19.6	19.5	20.2	19.7	17.5	14.2	12.7	11.1	9.6	8.7	8.9
37.5°	23.4	21.9	20.8	23.1	19.7	15.8	13.0	11.5	10.2	9.2	9.0
35°	29.7	26.5	25.7	27.8	24.1	17.5	13.4	11.8	10.9	9.6	9.1
32.5°	37.3	35.1	34.6	33.6	30.0	19.4	14.5	13.0	11.9	10.1	9.2
30°	49.7	51.1	44.9	40.6	36.7	24.8	16.8	14.4	12.9	10.5	9.3
27.5°	76.8	71.8	57.7	50.0	43.4	31.9	20.6	16.0	14.1	11.1	9.7
25°	112.8	99.3	78.0	60.7	51.0	49.8	24.9	17.9	15.4	12.0	10.0
22.5°	159.6	132.9	101.6	72.2	77.8	73.1	34.5	21.3	16.9	13.0	10.4
20°	213.1	171.5	134.0	111.7	109.3	96.8	51.6	25.0	18.4	14.0	10.7
17.5°	272.3	236.7	203.4	162.8	142.7	123.0	71.6	28.9	20.0	15.1	11.0
15°	377.8	334.4	278.8	218.3	177.7	151.2	93.8	32.9	21.6	16.1	11.5
12.5°	498.8	437.2	358.2	277.1	213.7	181.0	117.5	37.0	23.3	17.7	12.3
10°	623.1	543.3	440.2	337.9	250.4	211.6	141.8	42.2	26.6	19.5	13.1
7.5°	749.1	650.7	523.3	399.3	287.8	244.3	168.8	50.1	30.4	21.4	14.0
5°	866.7	745.2	593.2	452.4	327.7	278.5	195.0	58.0	34.2	23.2	14.9
2.5°	947.0	817.0	651.9	500.8	366.7	311.7	219.1	65.7	37.9	24.9	15.8
0°	1022.5	883.3	706.0	545.2	404.4	343.0	240.3	72.9	41.4	26.5	16.6
-2.5°	1036.4	894.6	713.5	556.5	419.9	355.1	248.4	86.1	50.2	31.2	18.9
-5°	1044.6	898.9	716.1	563.8	433.4	364.3	253.0	98.3	58.4	35.7	21.1
-7.5°	1003.8	870.1	702.6	564.7	444.9	370.6	254.4	109.5	66.0	39.8	23.1
-10°	949.0	819.4	667.5	543.9	441.5	369.6	253.0	119.3	72.7	43.4	24.9
-12.5°	891.5	764.9	631.2	521.9	434.9	362.9	248.3	127.9	78.5	46.4	26.5
-15°	832.2	707.7	594.6	499.6	427.9	354.9	242.1	135.1	84.1	49.2	27.8
-17.5°	774.3	648.5	558.8	477.6	421.1	346.0	234.7	140.5	88.3	51.8	29.1
-20°	718.5	603.5	525.4	456.7	414.6	336.6	226.5	143.9	91.1	53.5	30.4



REPORT NUMBER: P731488 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-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°	662.3	572.6	503.5	445.1	405.1	327.0	218.0	145.1	92.3	54.1	31.3
-25°	608.0	542.5	483.0	437.2	391.0	312.9	213.8	144.1	91.8	53.6	31.7
-27.5°	569.3	515.1	463.1	428.3	374.4	299.6	211.7	143.2	90.2	51.8	31.6
-30°	538.2	492.7	450.4	416.0	357.3	280.0	206.8	140.2	88.1	50.6	31.0
-32.5°	515.9	471.7	438.8	396.2	335.3	259.1	194.6	134.7	84.3	49.9	30.3
-35°	497.6	457.5	425.5	376.5	310.4	240.8	178.9	126.9	78.7	48.4	29.0
-37.5°	478.2	446.2	404.1	352.8	284.4	220.4	163.3	114.3	71.2	46.2	27.3
-40°	465.4	429.8	383.6	323.5	259.3	198.1	145.7	101.7	66.4	43.2	25.0
-42.5°	450.9	405.7	352.8	293.0	232.9	176.9	127.0	88.2	60.9	39.9	22.1
-45°	422.9	374.8	316.5	260.2	204.8	153.6	111.1	74.9	54.6	35.9	19.5
-47.5°	389.2	333.0	278.3	225.3	176.9	130.3	94.2	67.0	47.5	31.2	17.9
-50°	341.5	289.1	238.2	191.5	146.5	110.8	78.5	58.2	40.7	25.2	15.9
-52.5°	292.7	243.6	199.4	157.4	121.9	90.3	67.8	49.0	33.4	21.2	13.7
-55°	242.6	200.5	161.6	127.8	97.7	75.3	56.3	40.2	25.6	18.1	11.4
-57.5°	196.2	159.0	128.5	100.1	78.9	61.5	45.2	30.9	21.2	14.9	11.6
-60°	150.7	123.7	97.1	79.6	63.8	48.3	34.2	23.1	17.6	12.4	11.6
-62.5°	112.9	91.2	77.4	63.3	49.2	35.7	24.1	19.3	14.1	12.2	11.6
-65°	85.2	72.8	60.0	47.2	34.8	24.9	20.0	15.4	12.9	11.9	11.5
-67.5°	65.4	53.6	42.2	31.0	24.8	20.2	15.8	13.6	12.3	11.6	11.0
-70°	43.5	33.5	27.8	23.6	19.4	15.8	14.0	12.5	11.6	11.1	10.5
-72.5°	28.2	24.7	21.1	17.7	16.0	14.4	12.7	11.5	11.0	10.5	10.0
-75°	20.7	18.9	17.4	16.0	14.4	12.9	11.6	10.8	10.4	10.0	9.6
-77.5°	17.7	16.4	15.3	14.0	12.6	11.4	10.6	10.1	9.7	9.4	9.1
-80°	14.6	13.5	12.4	11.3	10.5	9.9	9.6	9.4	9.1	8.9	8.6
-82.5°	11.3	10.5	9.9	9.4	9.3	9.1	8.9	8.7	8.5	8.3	8.2
-85°	9.3	9.0	8.7	8.5	8.4	8.3	8.3	8.3	8.2	8.0	7.8
-87.5°	7.7	7.7	7.6	7.6	7.7	7.9	8.1	8.3	8.0	7.7	7.4
-90°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6



REPORT NUMBER: P731488 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.6	7.0	7.5	7.9	8.3	7.4	6.6
87.5°	7.0	7.0	6.9	6.8	6.7	6.7	6.6
85°	7.5	7.3	7.2	7.0	6.9	6.7	6.6
82.5°	7.9	7.7	7.5	7.3	7.0	6.8	6.6
80°	8.3	8.1	7.8	7.5	7.2	6.9	6.6
77.5°	8.3	8.3	8.1	7.7	7.3	7.0	6.6
75°	8.3	8.3	8.3	7.9	7.5	7.0	6.6
72.5°	8.3	8.3	8.3	8.1	7.6	7.1	6.6
70°	8.3	8.3	8.3	8.3	7.8	7.2	6.6
67.5°	8.3	8.3	8.3	8.3	7.9	7.3	6.6
65°	8.3	8.3	8.3	8.3	8.0	7.3	6.6
62.5°	8.3	8.3	8.3	8.3	8.2	7.4	6.6
60°	8.3	8.3	8.3	8.3	8.3	7.4	6.6
57.5°	8.3	8.3	8.3	8.3	8.3	7.5	6.6
55°	8.3	8.3	8.3	8.3	8.3	7.6	6.6
52.5°	8.3	8.3	8.3	8.3	8.3	7.6	6.6
50°	8.3	8.3	8.3	8.3	8.3	7.7	6.6
47.5°	8.3	8.3	8.3	8.3	8.3	7.7	6.6
45°	8.4	8.3	8.3	8.3	8.3	7.8	6.6
42.5°	8.6	8.3	8.3	8.3	8.3	7.9	6.6
40°	8.8	8.3	8.3	8.3	8.3	7.9	6.6
37.5°	9.0	8.3	8.3	8.3	8.3	7.9	6.6
35°	9.2	8.4	8.3	8.3	8.3	8.0	6.6
32.5°	9.4	8.6	8.3	8.3	8.3	8.0	6.6
30°	9.5	8.7	8.3	8.3	8.3	8.1	6.6
27.5°	9.6	8.9	8.3	8.3	8.3	8.1	6.6
25°	9.7	9.1	8.3	8.3	8.3	8.1	6.6
22.5°	9.8	9.3	8.3	8.3	8.3	8.2	6.6
20°	9.9	9.4	8.3	8.3	8.3	8.2	6.6
17.5°	10.0	9.5	8.3	8.3	8.3	8.2	6.6
15°	10.2	9.6	8.3	8.3	8.3	8.2	6.6
12.5°	10.4	9.7	8.3	8.3	8.3	8.3	6.6
10°	10.6	9.8	8.3	8.3	8.3	8.3	6.6
7.5°	10.9	9.8	8.3	8.3	8.3	8.3	6.6
5°	11.1	9.9	8.3	8.3	8.3	8.3	6.6
2.5°	11.4	9.9	8.3	8.3	8.3	8.3	6.6
0°	11.6	9.9	8.3	8.3	8.3	8.3	6.6
-2.5°	12.7	10.1	8.3	8.3	8.3	8.3	6.6
-5°	13.7	10.2	8.3	8.3	8.3	8.3	6.6
-7.5°	14.7	10.4	8.3	8.3	8.3	8.3	6.6
-10°	15.5	10.5	8.3	8.3	8.3	8.3	6.6
-12.5°	16.2	10.5	8.3	8.3	8.3	8.3	6.6
-15°	16.7	10.5	8.3	8.3	8.3	8.2	6.6
-17.5°	17.0	10.5	8.3	8.3	8.3	8.2	6.6
-20°	17.3	10.4	8.3	8.3	8.3	8.2	6.6



REPORT NUMBER: P731488 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	17.7	10.3	8.3	8.3	8.3	8.2	6.6
-25°	17.8	10.3	8.3	8.3	8.3	8.2	6.6
-27.5°	17.5	10.3	8.3	8.3	8.3	8.2	6.6
-30°	16.9	10.2	8.3	8.3	8.3	8.1	6.6
-32.5°	15.9	9.9	8.4	8.3	8.3	8.1	6.6
-35°	15.3	9.5	8.6	8.3	8.3	8.1	6.6
-37.5°	14.8	9.2	8.7	8.3	8.3	8.1	6.6
-40°	14.0	9.3	8.8	8.3	8.3	8.0	6.6
-42.5°	13.1	9.5	8.9	8.3	8.3	8.0	6.6
-45°	11.9	9.6	8.9	8.4	8.3	8.0	6.6
-47.5°	10.6	9.7	9.0	8.4	8.3	8.0	6.6
-50°	10.5	9.8	9.0	8.4	8.3	7.9	6.6
-52.5°	10.6	9.9	9.0	8.4	8.3	7.9	6.6
-55°	10.7	9.9	9.0	8.4	8.3	7.9	6.6
-57.5°	10.9	9.8	8.9	8.4	8.3	7.8	6.6
-60°	10.9	9.7	8.9	8.4	8.3	7.8	6.6
-62.5°	10.7	9.6	8.8	8.4	8.3	7.8	6.6
-65°	10.4	9.4	8.7	8.4	8.3	7.8	6.6
-67.5°	10.1	9.2	8.7	8.3	8.3	7.7	6.6
-70°	9.8	9.1	8.6	8.3	8.3	7.7	6.6
-72.5°	9.5	8.8	8.4	8.3	8.3	7.7	6.6
-75°	9.1	8.6	8.3	8.2	8.3	7.6	6.6
-77.5°	8.7	8.4	8.2	8.2	8.3	7.6	6.6
-80°	8.3	8.1	8.0	8.1	8.3	7.6	6.6
-82.5°	7.9	7.9	7.9	8.0	8.3	7.6	6.6
-85°	7.5	7.6	7.7	8.0	8.3	7.5	6.6
-87.5°	7.0	7.3	7.6	7.9	8.3	7.5	6.6
-90°	6.6	6.6	6.6	6.6	6.6	6.6	6.6

(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

