

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: P731492 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-5S-CV5**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731492 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0530N-40-80-5S-CV5  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

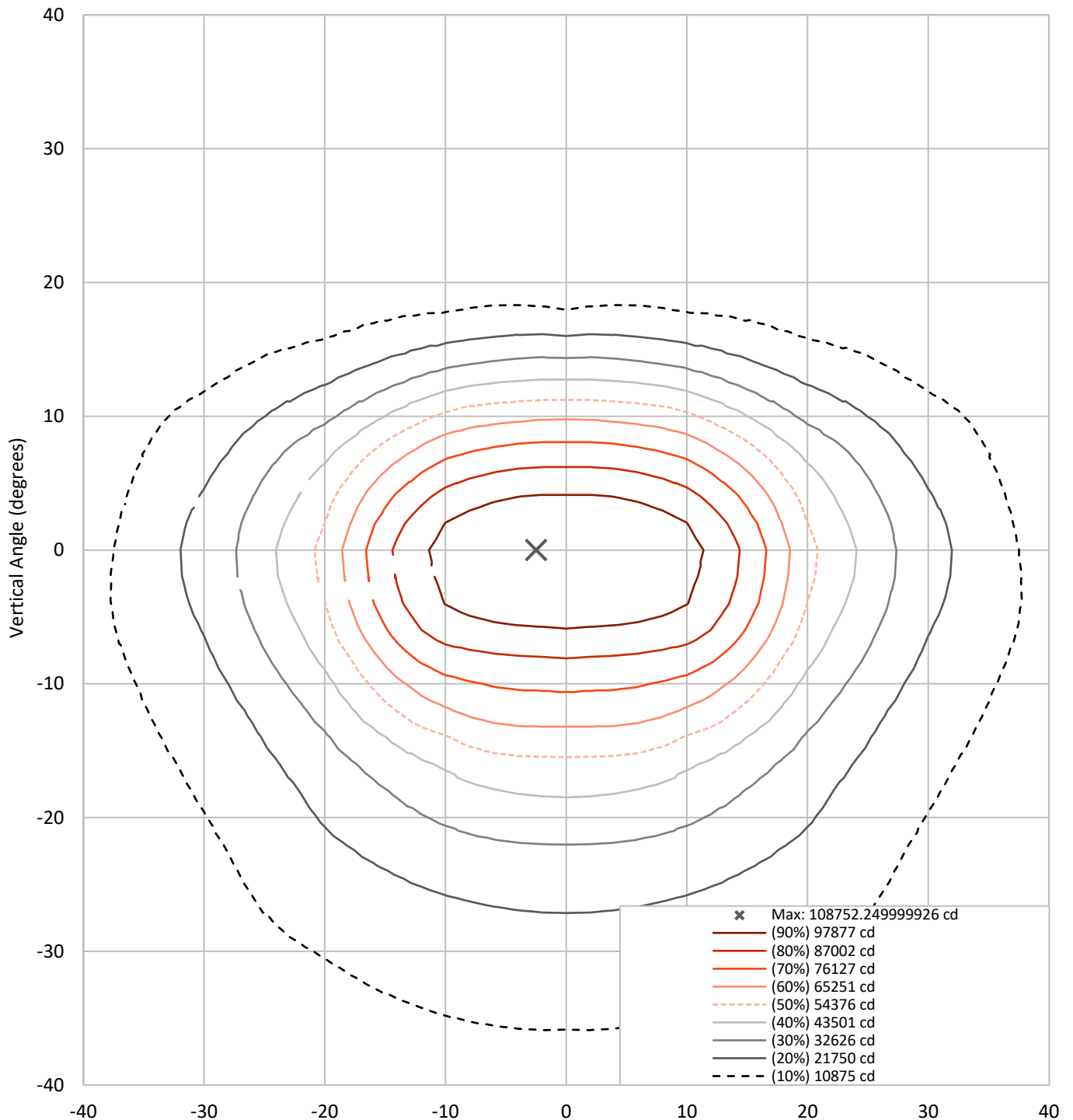
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 4V
Luminaire Lumens:	43093.6 lumens	Max Intensity:	108752.2 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	77.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	41.7°H x 26.5°V	Field Angle (10%):	74.8°H x 54.1°V
Beam Lumens:	21358.2 lumens	Field Lumens:	38630.3 lumens
Beam Efficiency:	49.6%	Field Efficiency:	89.6%

Input Watts (W): 559.9  
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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### Iso-Candela Plot





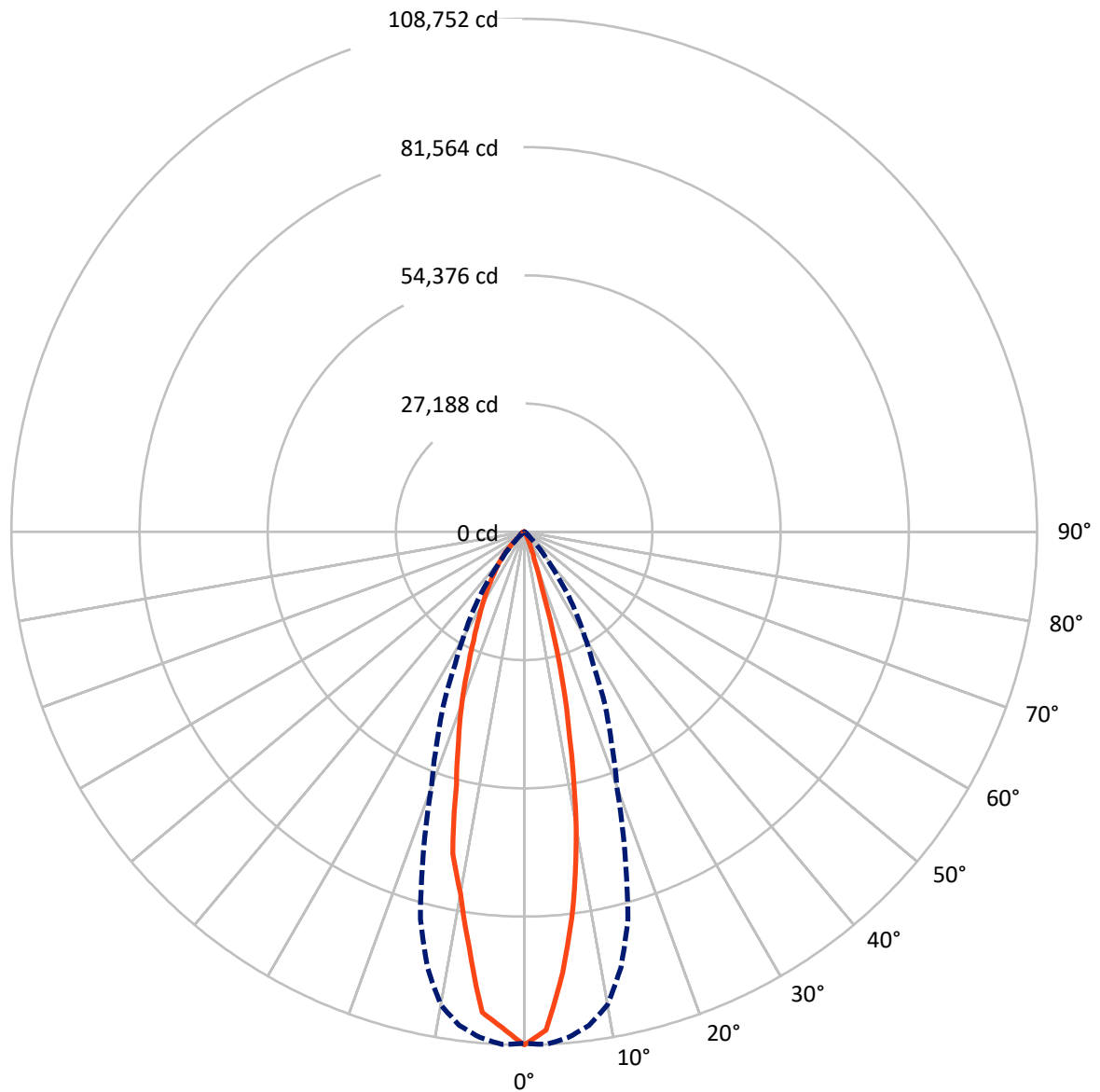
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### Lumen Table

90																		
80	0.2	0.5		0.7		0.7		0.4		0.7		0.7		0.5		0.2		
70	0.2	0.1	0.2	0.4	0.5	0.4	0.2	0.2	0.2	0.2	0.4	0.5	0.4	0.2	0.1	0.2		
60		0.1	0.2	0.6	0.6	0.3	0.2	0.2	0.2	0.2	0.3	0.6	0.6	0.2	0.1			
50	0.2	0.1	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.1	0.2		
40		0.2	0.4	0.7	1.6	3.6	5.6	7.6	7.6	5.6	3.6	1.6	0.7	0.4	0.2			
30	0.2	0.3	1.2	3.1	13.9	31.8	59.7	84.6	84.6	59.7	31.8	13.9	3.1	1.2	0.3	0.2		
20		0.8	4.2	18.9	109.5	290.9	597.7	884.8	884.8	597.7	290.9	109.5	18.9	4.2	0.8			
10	0.3	1.4	9.1	56.7	320.4	912.8	1961.8	2702.4	2702.4	1961.8	912.8	320.4	56.7	9.1	1.4	0.3		
0		1.9	11.1	70.2	365.9	998.5	2193.2	2913.5	2913.5	2193.2	998.5	365.9	70.2	11.1	1.9			
-10	0.3	2.0	10.0	45.0	232.6	599.9	1215.7	1692.8	1692.8	1215.7	599.9	232.6	45.0	10.0	2.0	0.3		
-20		1.9	8.3	20.9	122.4	342.7	599.1	775.4	775.4	599.1	342.7	122.4	20.9	8.3	1.9			
-30	0.3	1.5	6.2	13.7	40.9	156.1	278.4	354.7	354.7	278.4	156.1	40.9	13.7	6.2	1.5	0.3		
-40		0.9	3.9	10.2	18.5	33.5	73.6	108.1	108.1	73.6	33.5	18.5	10.2	3.9	0.9			
-50	0.2	0.5	1.9	5.4	10.9	17.2	22.1	24.9	24.9	22.1	17.2	10.9	5.4	1.9	0.5	0.2		
-60		0.2	0.7	1.9	3.9	6.4	9.1	10.7	10.7	9.1	6.4	3.9	1.9	0.7	0.2			
-70																		
-80	0.2	0.6		2.0		5.1		6.9		5.1		2.0		0.6		0.2		
-90																		

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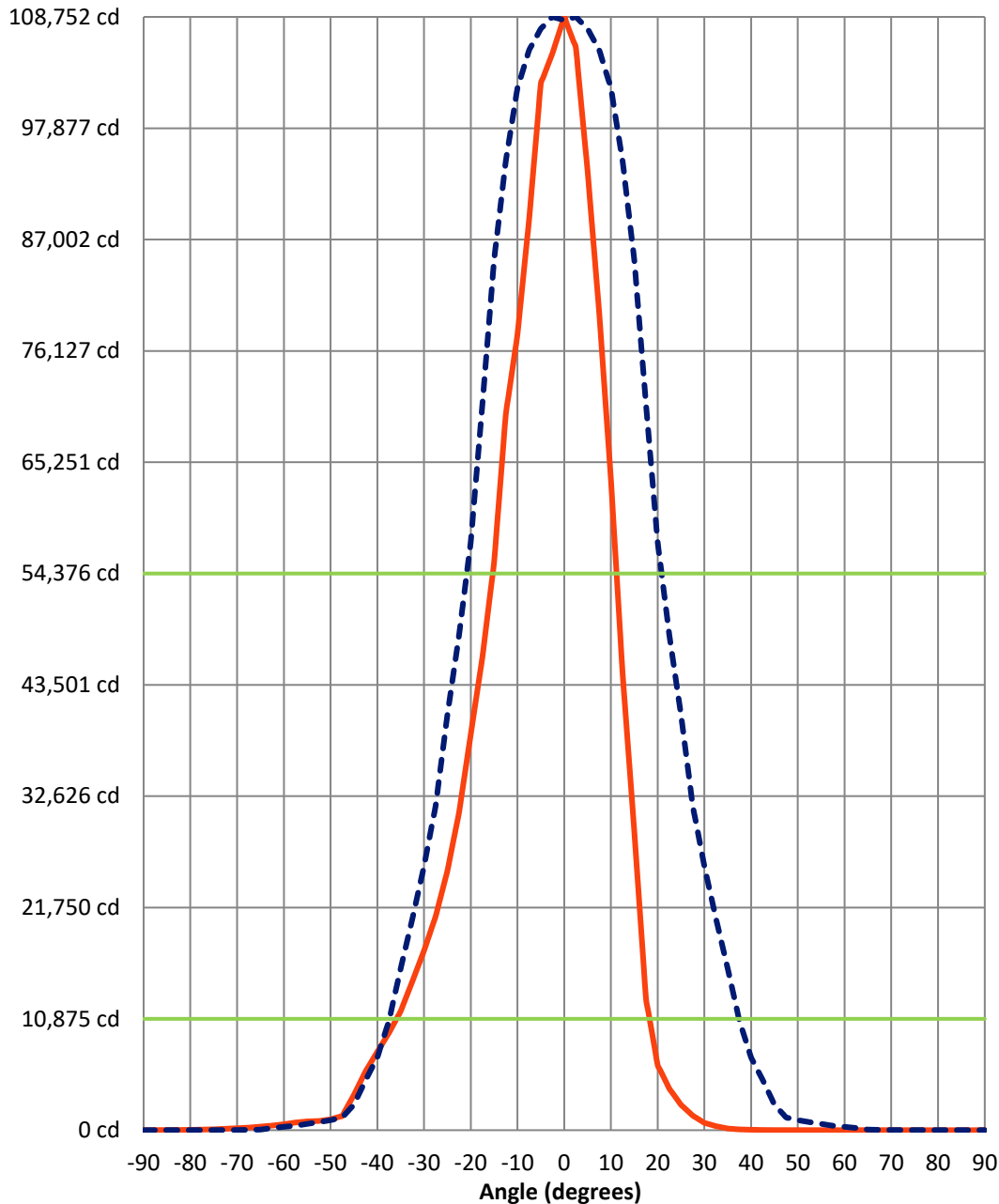
### Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 41.7°  
 V Angle: 26.5°  
 Lumens: 21358.2  
 Efficiency: 49.6%

**Field:**  
 H Angle: 74.8°  
 V Angle: 54.1°  
 Lumens: 38630.3  
 Efficiency: 89.6%

**Spill:**  
 Lumens: 4463.4  
 Efficiency: 10.4%

— Vertical Distribution through -2.5-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	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
87.5°	6.6	6.6	6.7	6.8	6.9	6.9	7.0	7.0	6.9	6.8	6.6
85°	6.6	6.7	6.9	7.0	7.2	7.3	7.4	7.3	7.2	6.9	6.6
82.5°	6.6	6.7	7.0	7.2	7.4	7.6	7.8	7.7	7.4	7.2	7.0
80°	6.6	6.7	7.1	7.4	7.7	8.0	8.2	7.9	7.7	7.7	7.7
77.5°	6.6	6.8	7.3	7.6	8.0	8.2	8.2	8.0	8.0	8.1	8.2
75°	6.6	6.8	7.4	7.8	8.2	8.2	8.2	8.1	8.2	8.2	8.2
72.5°	6.6	6.8	7.5	8.0	8.2	8.2	8.2	8.2	8.2	8.2	8.2
70°	6.6	6.9	7.6	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
67.5°	6.6	6.9	7.7	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
65°	6.6	6.9	7.8	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
62.5°	6.6	6.9	7.9	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
60°	6.6	6.9	8.0	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
57.5°	6.6	7.0	8.0	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
55°	6.6	7.0	8.0	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
52.5°	6.6	7.0	7.9	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
50°	6.6	7.0	7.9	8.2	8.2	8.2	8.2	8.3	8.2	8.2	8.7
47.5°	6.6	7.0	7.9	8.2	8.2	8.2	8.2	8.4	8.2	8.2	9.3
45°	6.6	7.0	7.9	8.2	8.2	8.2	8.4	8.6	8.4	8.7	9.8
42.5°	6.6	7.0	7.9	8.2	8.2	8.2	8.5	8.8	8.6	9.1	10.4
40°	6.6	7.0	7.9	8.2	8.2	8.2	8.7	9.0	8.9	9.6	10.9
37.5°	6.6	7.0	7.9	8.2	8.2	8.2	8.9	9.2	9.5	10.3	11.4
35°	6.6	7.0	8.0	8.2	8.2	8.3	9.2	9.5	10.1	11.0	11.7
32.5°	6.6	7.0	8.0	8.2	8.2	8.5	9.4	9.9	10.7	11.8	12.7
30°	6.6	6.9	8.0	8.2	8.2	8.7	9.7	10.3	11.3	12.6	14.0
27.5°	6.6	6.9	8.0	8.2	8.2	8.9	9.9	10.7	11.9	13.4	15.4
25°	6.6	6.9	8.0	8.2	8.2	9.1	10.2	11.2	12.6	14.5	17.1
22.5°	6.6	6.9	8.0	8.2	8.2	9.2	10.5	11.6	13.3	15.8	20.1
20°	6.6	6.9	8.1	8.2	8.2	9.4	10.8	12.1	14.0	17.2	23.4
17.5°	6.6	6.8	8.1	8.2	8.2	9.5	11.0	12.5	14.7	18.6	27.1
15°	6.6	6.8	8.1	8.2	8.2	9.6	11.2	12.8	15.4	20.0	31.0
12.5°	6.6	6.8	8.1	8.2	8.2	9.7	11.3	12.9	16.0	21.5	35.0
10°	6.6	6.7	8.2	8.2	8.2	9.8	11.4	13.0	16.5	23.4	39.5
7.5°	6.6	6.7	8.2	8.2	8.2	9.8	11.4	13.1	16.9	25.5	44.8
5°	6.6	6.7	8.2	8.2	8.2	9.9	11.5	13.2	17.4	27.5	50.0
2.5°	6.6	6.6	8.2	8.2	8.2	9.9	11.5	13.2	17.8	29.5	54.9
0°	6.6	6.6	8.2	8.2	8.2	9.9	11.5	13.2	18.1	31.3	59.4
-2.5°	6.6	6.6	8.2	8.2	8.3	10.1	11.7	14.7	22.6	39.4	72.5
-5°	6.6	6.7	8.2	8.2	8.5	10.2	11.9	16.2	26.8	47.0	84.8
-7.5°	6.6	6.7	8.2	8.2	8.6	10.4	12.1	17.5	30.7	54.0	95.9
-10°	6.6	6.7	8.2	8.2	8.8	10.5	12.3	18.7	34.1	60.2	105.6
-12.5°	6.6	6.8	8.1	8.2	8.9	10.6	12.4	19.5	36.8	65.5	113.0
-15°	6.6	6.8	8.1	8.2	9.0	10.7	12.5	20.1	39.1	70.0	118.5
-17.5°	6.6	6.8	8.1	8.2	9.0	10.7	12.6	21.1	41.1	73.2	122.2
-20°	6.6	6.9	8.1	8.2	9.1	10.8	13.0	22.2	42.3	75.1	124.0



REPORT NUMBER: P731492 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-CV5

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.6	6.9	8.0	8.2	9.1	10.8	13.7	23.0	42.7	75.6	123.7
-25°	6.6	6.9	8.0	8.2	9.1	10.9	14.2	23.4	42.1	74.5	121.2
-27.5°	6.6	6.9	8.0	8.2	9.1	10.9	14.4	23.4	40.7	72.6	119.7
-30°	6.6	6.9	8.0	8.2	9.0	10.8	14.3	22.9	39.8	70.8	116.2
-32.5°	6.6	7.0	8.0	8.2	8.9	10.7	13.9	22.7	39.1	67.7	110.6
-35°	6.6	7.0	8.0	8.2	8.8	10.5	13.6	22.3	37.9	63.2	102.7
-37.5°	6.6	7.0	7.9	8.2	8.7	10.3	13.3	21.3	36.0	57.4	92.0
-40°	6.6	7.0	7.9	8.2	8.5	10.1	13.0	19.8	33.5	53.5	82.0
-42.5°	6.6	7.0	7.9	8.2	8.5	9.9	12.4	17.8	31.0	48.7	71.2
-45°	6.6	7.0	7.9	8.3	8.6	9.7	11.8	16.0	28.1	43.2	60.4
-47.5°	6.6	7.0	7.9	8.3	8.6	9.5	11.0	15.1	24.4	37.1	53.5
-50°	6.6	7.0	7.9	8.3	8.7	9.3	10.7	14.0	19.7	31.8	46.1
-52.5°	6.6	7.0	7.9	8.3	8.7	9.1	10.4	12.7	17.0	26.1	38.2
-55°	6.6	7.0	8.0	8.3	8.7	9.1	10.1	11.4	15.2	20.1	31.4
-57.5°	6.6	7.0	8.0	8.3	8.8	9.2	9.8	11.0	13.4	17.1	24.3
-60°	6.6	6.9	8.0	8.3	8.8	9.2	9.6	10.7	11.8	15.0	18.5
-62.5°	6.6	6.9	7.9	8.3	8.8	9.2	9.6	10.3	11.4	12.8	16.1
-65°	6.6	6.9	7.8	8.3	8.7	9.3	9.7	10.0	11.0	12.0	13.6
-67.5°	6.6	6.9	7.7	8.2	8.6	9.2	9.7	10.0	10.5	11.5	12.4
-70°	6.6	6.9	7.6	8.2	8.5	9.0	9.8	10.0	10.3	10.9	11.8
-72.5°	6.6	6.8	7.5	8.0	8.4	8.8	9.4	9.9	10.1	10.6	11.2
-75°	6.6	6.8	7.4	7.8	8.2	8.5	9.1	9.5	9.9	10.2	10.7
-77.5°	6.6	6.8	7.3	7.6	8.0	8.3	8.7	9.0	9.4	9.7	10.1
-80°	6.6	6.7	7.1	7.4	7.7	8.0	8.3	8.5	8.8	9.1	9.4
-82.5°	6.6	6.7	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.7
-85°	6.6	6.7	6.9	7.0	7.2	7.3	7.4	7.6	7.7	7.8	8.0
-87.5°	6.6	6.6	6.7	6.8	6.9	6.9	7.0	7.1	7.1	7.2	7.3
-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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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	6.6	6.6	6.6	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	6.6	6.6	6.6
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
82.5°	7.1	7.0	6.9	6.6	6.6	6.6	6.6	6.8	6.9	6.8	6.8
80°	7.7	7.5	7.2	7.1	7.3	7.5	7.7	7.9	7.8	7.5	7.1
77.5°	8.0	7.8	7.8	8.0	8.2	8.2	8.2	8.2	7.9	7.5	7.1
75°	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.5	8.6	8.5	8.4
72.5°	8.2	8.2	8.2	8.2	8.2	8.5	8.9	9.5	9.9	9.8	9.7
70°	8.2	8.2	8.2	8.2	8.3	8.9	9.7	10.6	11.1	11.4	12.0
67.5°	8.2	8.2	8.2	8.3	8.9	9.8	10.7	12.3	14.2	15.1	16.2
65°	8.2	8.2	8.4	9.0	9.8	11.0	12.7	14.9	19.3	21.7	22.7
62.5°	8.2	8.3	8.8	9.6	10.6	12.1	15.4	20.2	26.4	29.9	29.6
60°	8.2	8.4	9.2	10.4	11.6	14.1	18.7	25.2	33.4	39.5	35.7
57.5°	8.2	8.8	9.9	11.4	13.3	15.5	21.4	29.4	37.7	46.8	39.9
55°	8.4	9.4	10.9	12.9	14.8	16.8	22.5	29.6	38.9	43.8	37.2
52.5°	9.1	10.2	12.3	14.2	16.1	17.4	20.0	26.8	31.8	35.4	31.8
50°	9.7	11.4	13.5	15.1	16.4	16.4	15.7	20.9	24.9	26.1	25.8
47.5°	10.6	12.6	14.1	15.5	15.8	15.5	13.9	16.4	19.1	20.4	19.5
45°	11.4	13.2	14.6	15.1	15.4	14.8	14.3	13.6	16.6	17.2	16.4
42.5°	12.2	13.6	14.7	14.9	15.5	15.8	15.8	15.3	15.6	16.1	15.9
40°	12.6	14.1	15.0	16.3	16.6	18.0	19.0	18.9	16.1	17.8	18.1
37.5°	12.9	14.5	16.3	19.6	19.2	21.5	23.3	25.7	23.5	22.0	24.6
35°	13.3	15.2	20.7	24.7	24.9	26.4	32.2	35.0	33.2	31.4	34.7
32.5°	13.8	16.1	26.5	30.8	33.1	35.5	43.6	45.2	46.7	47.5	50.1
30°	15.3	21.4	33.2	37.5	42.7	51.6	55.9	57.3	63.3	71.4	93.4
27.5°	18.4	28.4	39.6	46.3	54.5	69.6	75.3	76.1	86.1	107.2	160.1
25°	22.2	45.0	46.4	56.3	71.5	89.7	101.5	112.8	116.6	180.2	306.4
22.5°	31.1	66.2	73.7	66.9	89.8	113.1	138.2	170.1	218.5	291.8	479.0
20°	46.8	89.5	107.7	112.4	118.1	139.7	180.8	245.1	396.2	657.0	905.8
17.5°	64.9	116.4	145.8	169.7	196.6	205.3	231.9	334.6	620.3	1177.7	1829.7
15°	84.8	146.1	186.9	233.8	283.4	321.6	377.4	537.7	998.5	1896.9	3016.6
12.5°	105.9	177.9	230.3	303.2	376.7	444.9	549.5	892.4	1667.7	2913.7	4612.2
10°	127.5	210.9	275.2	376.2	474.4	573.2	728.0	1298.4	2458.9	3997.3	6065.9
7.5°	151.2	243.4	319.9	451.0	574.6	704.2	909.3	1735.1	3278.2	4998.2	7325.1
5°	174.3	273.7	359.6	510.9	656.6	817.8	1074.0	2177.9	4091.2	5911.3	8466.7
2.5°	195.7	302.2	397.9	565.4	724.1	900.9	1164.4	2360.5	4559.3	6585.1	9592.1
0°	214.5	328.3	433.9	615.3	786.9	978.3	1243.9	2492.7	4881.4	7101.8	10689.9
-2.5°	222.7	338.3	451.8	630.5	784.4	965.9	1244.3	2536.5	5157.4	7715.5	11244.2
-5°	227.6	345.3	466.1	640.4	778.0	947.6	1232.2	2517.1	5202.7	7857.3	11025.2
-7.5°	229.7	349.4	476.2	642.6	762.2	911.5	1177.1	2333.3	4709.5	7206.7	9998.4
-10°	229.1	348.3	472.0	622.5	733.2	863.2	1103.5	2091.0	4138.6	6472.3	8906.9
-12.5°	224.9	342.7	462.8	600.5	704.9	812.5	1018.8	1792.8	3512.8	5676.3	7862.1
-15°	219.0	334.9	450.5	577.5	678.7	760.4	923.5	1440.6	2860.6	4962.2	7023.2
-17.5°	211.8	325.0	435.3	554.5	655.8	707.9	821.6	1088.2	2277.2	4197.2	6178.5
-20°	203.4	313.2	417.3	532.3	634.6	673.3	767.5	981.2	1800.6	3344.8	5261.5



REPORT NUMBER: P731492 (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°	194.2	299.7	398.5	509.0	603.9	655.3	720.0	867.9	1284.0	2411.6	4271.3
-25°	188.6	285.3	380.2	478.5	573.4	638.1	671.4	759.1	970.8	1819.7	3226.7
-27.5°	184.9	271.2	355.4	445.6	543.3	616.8	644.3	704.6	853.2	1205.8	2244.6
-30°	178.4	249.4	328.6	412.0	506.4	583.0	627.1	662.5	752.2	945.3	1539.5
-32.5°	165.1	226.2	301.6	380.5	465.7	550.7	614.1	648.3	706.3	806.2	1005.8
-35°	149.4	207.1	274.0	347.0	423.6	511.0	585.5	641.9	669.3	738.2	866.1
-37.5°	134.9	186.6	245.2	313.4	385.4	465.9	552.8	616.5	661.9	693.5	784.8
-40°	118.9	164.8	219.8	280.8	346.8	420.5	501.2	579.9	640.5	693.0	733.6
-42.5°	102.2	145.6	194.7	247.1	309.3	376.0	447.2	525.7	603.8	674.8	729.7
-45°	89.5	125.1	168.9	217.8	270.8	330.8	396.4	465.0	546.3	628.0	699.1
-47.5°	75.9	105.0	144.6	186.7	234.1	286.9	344.3	408.8	477.6	556.5	639.9
-50°	63.1	89.2	118.4	157.1	198.2	243.9	294.7	351.2	413.0	478.6	551.1
-52.5°	53.9	72.6	98.1	127.4	163.9	203.0	247.2	295.9	349.3	405.2	464.0
-55°	44.1	60.1	78.5	102.6	130.6	164.7	201.8	244.2	287.0	336.6	381.7
-57.5°	35.2	48.2	62.8	80.2	103.0	127.8	160.5	194.3	232.6	271.4	304.6
-60°	26.9	37.5	49.7	63.0	77.7	99.1	121.0	149.1	180.2	209.9	238.4
-62.5°	19.3	27.9	37.8	48.6	60.7	73.0	90.9	110.8	130.6	155.5	178.6
-65°	16.6	19.8	27.0	36.1	45.3	56.9	68.2	79.0	95.6	111.8	126.9
-67.5°	13.7	16.3	19.5	24.0	32.4	41.8	51.2	61.3	70.9	79.2	88.6
-70°	12.6	13.1	15.2	18.1	21.8	27.7	36.1	44.5	52.7	60.7	68.1
-72.5°	11.8	12.3	12.7	13.2	16.0	20.1	24.4	29.0	34.8	41.2	47.8
-75°	11.1	11.5	11.8	12.2	13.1	14.7	16.7	20.4	24.0	27.3	30.3
-77.5°	10.4	10.7	11.0	11.3	11.9	12.8	14.1	15.5	17.3	19.2	21.2
-80°	9.6	9.9	10.1	10.4	10.7	11.2	11.8	12.5	13.7	15.0	16.6
-82.5°	8.8	9.0	9.2	9.4	9.6	9.8	10.0	10.3	10.7	11.3	12.1
-85°	8.1	8.2	8.3	8.4	8.6	8.7	8.8	8.9	9.0	9.1	9.2
-87.5°	7.3	7.4	7.5	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.9
-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: P731492 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-CV5

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	6.6	7.0	7.4	7.8	8.2	9.4	10.7	11.9	13.2	12.8	12.3
87.5°	6.6	6.2	5.8	5.3	4.9	4.5	4.1	3.7	3.3	2.9	2.5
85°	6.6	6.5	6.4	6.3	6.3	5.9	5.6	5.2	4.8	4.0	3.2
82.5°	6.6	6.6	6.6	6.6	6.6	6.2	5.8	5.3	4.9	4.1	3.3
80°	6.7	6.6	6.6	6.6	6.6	6.2	5.8	5.4	4.9	4.1	3.3
77.5°	6.8	6.9	6.9	6.8	6.6	6.3	5.8	5.4	5.0	4.2	3.3
75°	8.2	8.0	7.7	7.3	6.8	6.3	5.9	5.4	5.0	4.5	4.1
72.5°	9.6	9.3	8.8	8.5	8.1	7.7	7.4	6.9	6.4	6.0	5.6
70°	12.7	13.0	12.6	12.0	11.0	10.1	9.4	8.8	8.0	7.4	6.6
67.5°	17.1	17.2	16.3	15.0	13.0	11.2	10.3	9.5	8.6	8.1	8.0
65°	22.5	20.5	18.4	16.2	13.7	11.4	10.5	9.6	8.7	8.2	8.2
62.5°	27.3	22.1	17.8	15.1	13.0	11.4	10.2	9.0	7.8	7.1	6.9
60°	29.5	21.0	15.0	13.1	11.5	10.1	8.9	7.9	7.1	6.5	6.1
57.5°	29.5	19.9	12.7	11.0	9.7	8.6	7.9	7.5	7.0	6.6	6.1
55°	26.8	17.7	10.5	9.5	9.0	8.5	8.0	7.6	7.1	6.6	6.1
52.5°	21.9	15.6	11.2	9.6	9.1	8.6	8.1	7.7	7.2	6.7	6.2
50°	19.0	14.3	11.4	9.8	9.3	8.8	8.3	8.1	8.1	7.8	7.4
47.5°	16.5	13.1	11.2	10.0	9.8	10.4	10.9	11.0	10.8	10.4	10.0
45°	14.4	12.6	11.7	12.2	12.7	13.7	14.3	14.4	14.3	14.4	14.3
42.5°	14.3	14.4	15.4	17.0	16.9	19.0	20.0	17.7	20.3	21.7	20.5
40°	19.0	19.4	24.0	27.7	31.1	31.6	37.0	37.8	38.5	40.8	41.2
37.5°	27.8	32.6	46.7	57.3	61.7	62.1	69.9	71.5	69.3	78.8	81.5
35°	42.5	64.6	87.4	100.6	108.0	113.5	124.1	136.3	130.6	151.5	158.8
32.5°	76.3	116.6	158.1	156.6	170.7	208.2	222.3	244.4	267.5	302.8	341.6
30°	128.5	237.3	285.3	267.8	307.4	361.1	361.5	423.2	509.2	582.2	692.2
27.5°	289.4	411.2	474.0	502.1	532.2	600.0	684.1	762.6	981.4	1130.9	1288.1
25°	491.3	659.5	726.8	831.2	925.9	988.8	1243.0	1428.5	1742.9	1971.1	2207.4
22.5°	792.3	1014.6	1153.9	1248.4	1567.6	1851.4	2122.9	2526.9	2839.1	3230.7	3525.7
20°	1169.1	1469.4	1980.8	2382.2	2582.7	3185.5	3676.6	4094.1	4648.0	5133.6	5565.5
17.5°	2206.0	2374.7	3443.3	4489.0	4911.6	5691.2	7103.2	7635.9	9230.7	10398.4	11028.9
15°	3994.4	4810.3	5935.8	7679.1	9613.0	11140.8	12479.2	15220.1	18262.9	20960.2	23800.1
12.5°	6316.3	7912.0	9806.1	11938.7	15423.1	18188.1	21149.7	25066.7	29982.1	34260.2	39293.1
10°	8642.4	11338.7	13956.9	17279.9	21681.3	25950.4	30216.0	36420.1	43640.4	50572.8	56566.6
7.5°	10565.7	14221.0	17769.2	22363.3	28358.2	34306.1	40268.1	48473.7	58023.1	65934.9	72736.6
5°	12523.2	17100.9	21263.1	26561.4	33617.1	40861.3	48322.2	58553.9	69833.3	78792.3	85810.0
2.5°	14320.7	19507.8	24325.4	30233.3	38090.5	45178.3	53671.1	66231.9	79672.1	89336.9	97073.4
0°	15772.5	20634.1	25781.1	31726.5	40549.0	48361.8	57463.1	70932.6	84996.1	94652.4	101791.4
-2.5°	15460.0	20377.4	25189.6	31230.2	40087.4	47280.2	56494.0	69746.7	83641.5	93452.1	99864.0
-5°	14484.4	18836.7	23157.4	28830.5	36619.3	43628.1	52651.4	66274.0	79602.1	89606.5	96984.3
-7.5°	13041.9	16737.3	20656.2	25825.6	32605.3	39309.9	47158.2	58014.8	70454.4	79503.8	84851.4
-10°	11523.2	14582.8	18252.9	22621.5	28216.9	34238.9	40756.7	49453.6	60083.0	68019.0	73092.2
-12.5°	10191.9	12842.8	16117.0	19348.0	23913.1	29276.6	35064.1	42181.0	49194.8	57563.5	61949.5
-15°	8965.7	11175.3	13988.7	17086.6	20880.3	25095.6	29242.6	34571.3	39138.8	44366.2	48164.1
-17.5°	7939.7	9704.4	12197.2	15199.4	18055.9	21685.8	25643.2	29252.8	33114.4	36887.9	40037.4
-20°	7012.5	8468.5	10594.0	13237.4	16051.7	19138.4	22630.5	25568.7	28724.1	31591.6	34054.9



REPORT NUMBER: P731492 (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°	5958.7	7435.1	9081.3	11343.0	14161.5	16928.8	19514.7	21735.2	24119.5	26436.7	28185.8
-25°	4862.1	6279.1	7855.1	9989.5	12298.4	14626.9	16458.3	18021.6	19882.8	21552.5	23053.6
-27.5°	3728.1	5238.9	6938.7	8721.5	10729.8	12209.5	13750.7	15164.6	16579.0	17702.4	18970.1
-30°	2591.9	4240.3	5912.1	7599.5	8975.1	10156.3	11305.7	12602.3	13882.2	14949.9	15844.6
-32.5°	1779.9	2969.0	4656.0	6225.1	7401.0	8404.8	9292.6	10398.3	11390.1	12268.8	13051.7
-35°	1069.0	1906.7	3065.1	4556.4	5842.9	6819.6	7723.9	8562.3	9302.6	10042.7	10631.5
-37.5°	915.8	1101.4	1804.0	2795.6	4020.0	5201.9	6131.0	6915.7	7605.5	8175.5	8675.2
-40°	824.7	934.4	1088.0	1426.4	2327.9	3230.6	4244.6	5139.1	5866.6	6402.0	6836.8
-42.5°	770.8	841.2	916.4	1036.9	1170.9	1599.4	2375.2	3116.3	3755.7	4348.8	4857.8
-45°	761.8	791.5	831.9	899.9	961.8	1072.8	1194.1	1312.6	1815.5	2292.2	2683.2
-47.5°	704.7	765.4	802.5	833.0	865.3	917.9	969.1	1024.0	1115.4	1201.3	1275.0
-50°	621.4	686.8	742.9	797.7	826.4	847.7	868.9	896.1	931.8	964.4	994.4
-52.5°	519.2	582.1	645.1	703.5	749.1	791.1	828.8	846.5	859.9	872.1	881.8
-55°	428.5	478.2	527.7	581.1	633.9	684.1	727.4	756.1	781.8	804.7	824.1
-57.5°	343.0	381.7	422.1	465.5	507.6	548.1	586.7	621.9	653.2	680.4	703.3
-60°	265.8	291.8	325.5	360.0	392.8	423.9	455.2	483.6	509.3	532.0	549.7
-62.5°	199.4	221.1	246.7	270.9	292.4	315.6	344.8	369.3	389.4	405.6	419.9
-65°	143.2	161.3	181.9	202.3	222.3	242.1	262.5	282.2	301.0	316.0	326.6
-67.5°	101.7	114.5	129.0	141.6	156.5	173.9	192.4	209.4	224.8	235.4	241.8
-70°	74.9	82.4	92.9	105.0	117.6	129.1	140.9	152.6	164.2	172.4	178.6
-72.5°	54.6	62.1	69.8	77.6	86.1	94.6	103.2	111.9	120.6	125.9	129.7
-75°	33.1	37.5	44.2	50.7	57.1	63.0	68.6	73.8	78.7	81.3	82.9
-77.5°	23.8	26.8	30.2	33.6	37.0	40.5	44.0	47.5	50.9	52.5	53.7
-80°	18.1	19.9	21.8	23.7	25.8	27.9	30.0	32.2	34.3	34.7	34.7
-82.5°	12.9	14.1	15.4	16.7	17.9	19.1	20.2	21.3	22.4	22.6	22.8
-85°	9.3	10.0	10.9	11.7	12.6	13.4	14.3	15.2	16.1	16.3	16.3
-87.5°	7.9	8.4	8.8	9.3	9.7	10.2	10.7	11.1	11.6	11.5	11.5
-90°	6.6	6.2	5.8	5.3	4.9	4.5	4.1	3.7	3.3	2.9	2.5



REPORT NUMBER: P731492 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-CV5

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	11.9	11.5	11.5	11.5	11.5	11.5	11.9	12.3	12.8	13.2	11.9
87.5°	2.0	1.6	0.8	0.0	0.8	1.6	2.0	2.5	2.9	3.3	3.7
85°	2.4	1.6	1.6	1.6	1.6	1.6	2.4	3.2	4.0	4.8	5.2
82.5°	2.4	1.6	1.6	1.6	1.6	1.6	2.4	3.3	4.1	4.9	5.3
80°	2.5	1.6	1.6	1.6	1.6	1.6	2.5	3.3	4.1	4.9	5.4
77.5°	2.5	1.6	1.6	1.6	1.6	1.6	2.5	3.3	4.2	5.0	5.4
75°	3.7	3.3	2.5	1.6	2.5	3.3	3.7	4.1	4.5	5.0	5.4
72.5°	5.3	4.9	4.9	4.9	4.9	4.9	5.3	5.6	6.0	6.4	6.9
70°	5.8	5.0	4.9	4.9	4.9	5.0	5.8	6.6	7.4	8.0	8.8
67.5°	8.0	8.1	7.4	6.6	7.4	8.1	8.0	8.0	8.1	8.6	9.5
65°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.7	9.6
62.5°	6.8	6.7	6.6	6.6	6.6	6.7	6.8	6.9	7.1	7.8	9.0
60°	5.6	5.1	4.9	4.9	4.9	5.1	5.6	6.1	6.5	7.1	7.9
57.5°	5.6	5.1	4.9	4.9	4.9	5.1	5.6	6.1	6.6	7.0	7.5
55°	5.6	5.1	4.9	4.9	4.9	5.1	5.6	6.1	6.6	7.1	7.6
52.5°	5.7	5.1	5.5	6.6	5.5	5.1	5.7	6.2	6.7	7.2	7.7
50°	7.1	6.7	6.6	6.6	6.6	6.7	7.1	7.4	7.8	8.1	8.1
47.5°	9.4	8.6	8.2	8.2	8.2	8.6	9.4	10.0	10.4	10.8	11.0
45°	13.4	12.2	11.4	11.5	11.4	12.2	13.4	14.3	14.4	14.3	14.4
42.5°	20.2	19.8	19.6	19.8	19.6	19.8	20.2	20.5	21.7	20.3	17.7
40°	43.5	44.1	43.9	44.5	43.9	44.1	43.5	41.2	40.8	38.5	37.8
37.5°	81.9	79.2	75.0	75.9	75.0	79.2	81.9	81.5	78.8	69.3	71.5
35°	159.7	163.8	163.6	165.0	163.6	163.8	159.7	158.8	151.5	130.6	136.3
32.5°	369.6	389.3	389.7	397.6	389.7	389.3	369.6	341.6	302.8	267.5	244.4
30°	726.2	741.8	718.2	729.2	718.2	741.8	726.2	692.2	582.2	509.2	423.2
27.5°	1369.9	1427.6	1427.0	1402.2	1427.0	1427.6	1369.9	1288.1	1130.9	981.4	762.6
25°	2406.2	2495.3	2478.9	2449.8	2478.9	2495.3	2406.2	2207.4	1971.1	1742.9	1428.5
22.5°	3793.7	3941.0	4059.0	3982.3	4059.0	3941.0	3793.7	3525.7	3230.7	2839.1	2526.9
20°	6200.8	6242.9	6368.2	6323.2	6368.2	6242.9	6200.8	5565.5	5133.6	4648.0	4094.1
17.5°	12737.5	13194.5	12876.6	11909.0	12876.6	13194.5	12737.5	11028.9	10398.4	9230.7	7635.9
15°	25794.9	27710.1	29197.4	28381.0	29197.4	27710.1	25794.9	23800.1	20960.2	18262.9	15220.1
12.5°	42242.5	43655.7	44601.2	44670.7	44601.2	43655.7	42242.5	39293.1	34260.2	29982.1	25066.7
10°	60631.3	61880.1	63552.8	63787.9	63552.8	61880.1	60631.3	56566.6	50572.8	43640.4	36420.1
7.5°	76112.2	78644.5	79816.9	79659.4	79816.9	78644.5	76112.2	72736.6	65934.9	58023.1	48473.7
5°	89957.2	92580.7	93729.9	93920.8	93729.9	92580.7	89957.2	85810.0	78792.3	69833.3	58553.9
2.5°	101707.4	104356.1	105736.7	105358.0	105736.7	104356.1	101707.4	97073.4	89336.9	79672.1	66231.9
0°	105508.9	107595.0	108752.2	108434.6	108752.2	107595.0	105508.9	101791.4	94652.4	84996.1	70932.6
-2.5°	103092.3	104349.3	105221.4	104884.5	105221.4	104349.3	103092.3	99864.0	93452.1	83641.5	69746.7
-5°	100414.2	101905.7	102231.9	102631.1	102231.9	101905.7	100414.2	96984.3	89606.5	79602.1	66274.0
-7.5°	86885.6	88481.2	89008.1	89806.5	89008.1	88481.2	86885.6	84851.4	79503.8	70454.4	58014.8
-10°	75852.8	77642.3	77728.6	78220.9	77728.6	77642.3	75852.8	73092.2	68019.0	60083.0	49453.6
-12.5°	66611.3	69073.9	69890.9	69695.4	69890.9	69073.9	66611.3	61949.5	57563.5	49194.8	42181.0
-15°	53220.4	55324.0	55474.1	55572.5	55474.1	55324.0	53220.4	48164.1	44366.2	39138.8	34571.3
-17.5°	43379.4	45423.6	46211.6	46456.4	46211.6	45423.6	43379.4	40037.4	36887.9	33114.4	29252.8
-20°	36169.6	37691.4	38654.0	39052.7	38654.0	37691.4	36169.6	34054.9	31591.6	28724.1	25568.7



REPORT NUMBER: P731492 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-CV5

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	29714.8	30679.5	31031.3	31119.4	31031.3	30679.5	29714.8	28185.8	26436.7	24119.5	21735.2
-25°	24108.0	24874.2	25319.7	25505.6	25319.7	24874.2	24108.0	23053.6	21552.5	19882.8	18021.6
-27.5°	19792.3	20474.2	20903.1	20969.0	20903.1	20474.2	19792.3	18970.1	17702.4	16579.0	15164.6
-30°	16529.6	17128.6	17529.3	17638.3	17529.3	17128.6	16529.6	15844.6	14949.9	13882.2	12602.3
-32.5°	13696.5	14209.1	14523.5	14659.0	14523.5	14209.1	13696.5	13051.7	12268.8	11390.1	10398.3
-35°	11071.1	11415.7	11617.1	11551.0	11617.1	11415.7	11071.1	10631.5	10042.7	9302.6	8562.3
-37.5°	9075.9	9353.1	9504.0	9512.0	9504.0	9353.1	9075.9	8675.2	8175.5	7605.5	6915.7
-40°	7196.9	7478.5	7648.2	7657.8	7648.2	7478.5	7196.9	6836.8	6402.0	5866.6	5139.1
-42.5°	5262.7	5551.0	5747.9	5876.1	5747.9	5551.0	5262.7	4857.8	4348.8	3755.7	3116.3
-45°	3009.5	3258.6	3448.6	3586.4	3448.6	3258.6	3009.5	2683.2	2292.2	1815.5	1312.6
-47.5°	1330.1	1370.5	1388.1	1382.4	1388.1	1370.5	1330.1	1275.0	1201.3	1115.4	1024.0
-50°	1021.9	1045.7	1057.7	1057.4	1057.7	1045.7	1021.9	994.4	964.4	931.8	896.1
-52.5°	889.4	895.4	899.0	900.7	899.0	895.4	889.4	881.8	872.1	859.9	846.5
-55°	840.2	852.8	857.5	856.2	857.5	852.8	840.2	824.1	804.7	781.8	756.1
-57.5°	722.7	738.3	748.6	753.9	748.6	738.3	722.7	703.3	680.4	653.2	621.9
-60°	563.0	572.3	578.1	580.7	578.1	572.3	563.0	549.7	532.0	509.3	483.6
-62.5°	432.4	443.0	448.3	450.4	448.3	443.0	432.4	419.9	405.6	389.4	369.3
-65°	335.9	343.6	347.8	349.7	347.8	343.6	335.9	326.6	316.0	301.0	282.2
-67.5°	246.7	250.1	251.9	252.4	251.9	250.1	246.7	241.8	235.4	224.8	209.4
-70°	184.2	189.3	192.5	194.7	192.5	189.3	184.2	178.6	172.4	164.2	152.6
-72.5°	132.9	135.4	137.4	138.6	137.4	135.4	132.9	129.7	125.9	120.6	111.9
-75°	84.2	85.1	85.6	85.8	85.6	85.1	84.2	82.9	81.3	78.7	73.8
-77.5°	54.7	55.7	56.8	57.7	56.8	55.7	54.7	53.7	52.5	50.9	47.5
-80°	34.6	34.4	34.6	34.6	34.6	34.4	34.6	34.7	34.7	34.3	32.2
-82.5°	22.9	23.0	23.1	23.1	23.1	23.0	22.9	22.8	22.6	22.4	21.3
-85°	16.4	16.5	16.5	16.5	16.5	16.5	16.4	16.3	16.3	16.1	15.2
-87.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.6	11.1
-90°	2.0	1.6	0.8	0.0	0.8	1.6	2.0	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°	10.7	9.4	8.2	7.8	7.4	7.0	6.6	6.6	6.6	6.6	6.6
87.5°	4.1	4.5	4.9	5.3	5.8	6.2	6.6	6.6	6.6	6.6	6.6
85°	5.6	5.9	6.3	6.3	6.4	6.5	6.6	6.6	6.6	6.6	6.6
82.5°	5.8	6.2	6.6	6.6	6.6	6.6	6.6	6.8	6.8	6.9	6.8
80°	5.8	6.2	6.6	6.6	6.6	6.6	6.7	7.1	7.5	7.8	7.9
77.5°	5.8	6.3	6.6	6.8	6.9	6.9	6.8	7.1	7.5	7.9	8.2
75°	5.9	6.3	6.8	7.3	7.7	8.0	8.2	8.4	8.5	8.6	8.5
72.5°	7.4	7.7	8.1	8.5	8.8	9.3	9.6	9.7	9.8	9.9	9.5
70°	9.4	10.1	11.0	12.0	12.6	13.0	12.7	12.0	11.4	11.1	10.6
67.5°	10.3	11.2	13.0	15.0	16.3	17.2	17.1	16.2	15.1	14.2	12.3
65°	10.5	11.4	13.7	16.2	18.4	20.5	22.5	22.7	21.7	19.3	14.9
62.5°	10.2	11.4	13.0	15.1	17.8	22.1	27.3	29.6	29.9	26.4	20.2
60°	8.9	10.1	11.5	13.1	15.0	21.0	29.5	35.7	39.5	33.4	25.2
57.5°	7.9	8.6	9.7	11.0	12.7	19.9	29.5	39.9	46.8	37.7	29.4
55°	8.0	8.5	9.0	9.5	10.5	17.7	26.8	37.2	43.8	38.9	29.6
52.5°	8.1	8.6	9.1	9.6	11.2	15.6	21.9	31.8	35.4	31.8	26.8
50°	8.3	8.8	9.3	9.8	11.4	14.3	19.0	25.8	26.1	24.9	20.9
47.5°	10.9	10.4	9.8	10.0	11.2	13.1	16.5	19.5	20.4	19.1	16.4
45°	14.3	13.7	12.7	12.2	11.7	12.6	14.4	16.4	17.2	16.6	13.6
42.5°	20.0	19.0	16.9	17.0	15.4	14.4	14.3	15.9	16.1	15.6	15.3
40°	37.0	31.6	31.1	27.7	24.0	19.4	19.0	18.1	17.8	16.1	18.9
37.5°	69.9	62.1	61.7	57.3	46.7	32.6	27.8	24.6	22.0	23.5	25.7
35°	124.1	113.5	108.0	100.6	87.4	64.6	42.5	34.7	31.4	33.2	35.0
32.5°	222.3	208.2	170.7	156.6	158.1	116.6	76.3	50.1	47.5	46.7	45.2
30°	361.5	361.1	307.4	267.8	285.3	237.3	128.5	93.4	71.4	63.3	57.3
27.5°	684.1	600.0	532.2	502.1	474.0	411.2	289.4	160.1	107.2	86.1	76.1
25°	1243.0	988.8	925.9	831.2	726.8	659.5	491.3	306.4	180.2	116.6	112.8
22.5°	2122.9	1851.4	1567.6	1248.4	1153.9	1014.6	792.3	479.0	291.8	218.5	170.1
20°	3676.6	3185.5	2582.7	2382.2	1980.8	1469.4	1169.1	905.8	657.0	396.2	245.1
17.5°	7103.2	5691.2	4911.6	4489.0	3443.3	2374.7	2206.0	1829.7	1177.7	620.3	334.6
15°	12479.2	11140.8	9613.0	7679.1	5935.8	4810.3	3994.4	3016.6	1896.9	998.5	537.7
12.5°	21149.7	18188.1	15423.1	11938.7	9806.1	7912.0	6316.3	4612.2	2913.7	1667.7	892.4
10°	30216.0	25950.4	21681.3	17279.9	13956.9	11338.7	8642.4	6065.9	3997.3	2458.9	1298.4
7.5°	40268.1	34306.1	28358.2	22363.3	17769.2	14221.0	10565.7	7325.1	4998.2	3278.2	1735.1
5°	48322.2	40861.3	33617.1	26561.4	21263.1	17100.9	12523.2	8466.7	5911.3	4091.2	2177.9
2.5°	53671.1	45178.3	38090.5	30233.3	24325.4	19507.8	14320.7	9592.1	6585.1	4559.3	2360.5
0°	57463.1	48361.8	40549.0	31726.5	25781.1	20634.1	15772.5	10689.9	7101.8	4881.4	2492.7
-2.5°	56494.0	47280.2	40087.4	31230.2	25189.6	20377.4	15460.0	11244.2	7715.5	5157.4	2536.5
-5°	52651.4	43628.1	36619.3	28830.5	23157.4	18836.7	14484.4	11025.2	7857.3	5202.7	2517.1
-7.5°	47158.2	39309.9	32605.3	25825.6	20656.2	16737.3	13041.9	9998.4	7206.7	4709.5	2333.3
-10°	40756.7	34238.9	28216.9	22621.5	18252.9	14582.8	11523.2	8906.9	6472.3	4138.6	2091.0
-12.5°	35064.1	29276.6	23913.1	19348.0	16117.0	12842.8	10191.9	7862.1	5676.3	3512.8	1792.8
-15°	29242.6	25095.6	20880.3	17086.6	13988.7	11175.3	8965.7	7023.2	4962.2	2860.6	1440.6
-17.5°	25643.2	21685.8	18055.9	15199.4	12197.2	9704.4	7939.7	6178.5	4197.2	2277.2	1088.2
-20°	22630.5	19138.4	16051.7	13237.4	10594.0	8468.5	7012.5	5261.5	3344.8	1800.6	981.2



REPORT NUMBER: P731492 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-CV5

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	19514.7	16928.8	14161.5	11343.0	9081.3	7435.1	5958.7	4271.3	2411.6	1284.0	867.9
-25°	16458.3	14626.9	12298.4	9989.5	7855.1	6279.1	4862.1	3226.7	1819.7	970.8	759.1
-27.5°	13750.7	12209.5	10729.8	8721.5	6938.7	5238.9	3728.1	2244.6	1205.8	853.2	704.6
-30°	11305.7	10156.3	8975.1	7599.5	5912.1	4240.3	2591.9	1539.5	945.3	752.2	662.5
-32.5°	9292.6	8404.8	7401.0	6225.1	4656.0	2969.0	1779.9	1005.8	806.2	706.3	648.3
-35°	7723.9	6819.6	5842.9	4556.4	3065.1	1906.7	1069.0	866.1	738.2	669.3	641.9
-37.5°	6131.0	5201.9	4020.0	2795.6	1804.0	1101.4	915.8	784.8	693.5	661.9	616.5
-40°	4244.6	3230.6	2327.9	1426.4	1088.0	934.4	824.7	733.6	693.0	640.5	579.9
-42.5°	2375.2	1599.4	1170.9	1036.9	916.4	841.2	770.8	729.7	674.8	603.8	525.7
-45°	1194.1	1072.8	961.8	899.9	831.9	791.5	761.8	699.1	628.0	546.3	465.0
-47.5°	969.1	917.9	865.3	833.0	802.5	765.4	704.7	639.9	556.5	477.6	408.8
-50°	868.9	847.7	826.4	797.7	742.9	686.8	621.4	551.1	478.6	413.0	351.2
-52.5°	828.8	791.1	749.1	703.5	645.1	582.1	519.2	464.0	405.2	349.3	295.9
-55°	727.4	684.1	633.9	581.1	527.7	478.2	428.5	381.7	336.6	287.0	244.2
-57.5°	586.7	548.1	507.6	465.5	422.1	381.7	343.0	304.6	271.4	232.6	194.3
-60°	455.2	423.9	392.8	360.0	325.5	291.8	265.8	238.4	209.9	180.2	149.1
-62.5°	344.8	315.6	292.4	270.9	246.7	221.1	199.4	178.6	155.5	130.6	110.8
-65°	262.5	242.1	222.3	202.3	181.9	161.3	143.2	126.9	111.8	95.6	79.0
-67.5°	192.4	173.9	156.5	141.6	129.0	114.5	101.7	88.6	79.2	70.9	61.3
-70°	140.9	129.1	117.6	105.0	92.9	82.4	74.9	68.1	60.7	52.7	44.5
-72.5°	103.2	94.6	86.1	77.6	69.8	62.1	54.6	47.8	41.2	34.8	29.0
-75°	68.6	63.0	57.1	50.7	44.2	37.5	33.1	30.3	27.3	24.0	20.4
-77.5°	44.0	40.5	37.0	33.6	30.2	26.8	23.8	21.2	19.2	17.3	15.5
-80°	30.0	27.9	25.8	23.7	21.8	19.9	18.1	16.6	15.0	13.7	12.5
-82.5°	20.2	19.1	17.9	16.7	15.4	14.1	12.9	12.1	11.3	10.7	10.3
-85°	14.3	13.4	12.6	11.7	10.9	10.0	9.3	9.2	9.1	9.0	8.9
-87.5°	10.7	10.2	9.7	9.3	8.8	8.4	7.9	7.9	7.8	7.8	7.7
-90°	4.1	4.5	4.9	5.3	5.8	6.2	6.6	6.6	6.6	6.6	6.6





REPORT NUMBER: P731492 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-CV5

**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	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	6.8	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	7.3
82.5°	6.6	6.6	6.6	6.6	6.9	7.0	7.1	7.0	7.2	7.4	7.7
80°	7.7	7.5	7.3	7.1	7.2	7.5	7.7	7.7	7.7	7.7	7.9
77.5°	8.2	8.2	8.2	8.0	7.8	7.8	8.0	8.2	8.1	8.0	8.0
75°	8.2	8.2	8.2	8.2	8.2	8.2	8.1	8.2	8.2	8.2	8.1
72.5°	8.9	8.5	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
70°	9.7	8.9	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
67.5°	10.7	9.8	8.9	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2
65°	12.7	11.0	9.8	9.0	8.4	8.2	8.2	8.2	8.2	8.2	8.2
62.5°	15.4	12.1	10.6	9.6	8.8	8.3	8.2	8.2	8.2	8.2	8.2
60°	18.7	14.1	11.6	10.4	9.2	8.4	8.2	8.2	8.2	8.2	8.2
57.5°	21.4	15.5	13.3	11.4	9.9	8.8	8.2	8.2	8.2	8.2	8.2
55°	22.5	16.8	14.8	12.9	10.9	9.4	8.4	8.2	8.2	8.2	8.2
52.5°	20.0	17.4	16.1	14.2	12.3	10.2	9.1	8.2	8.2	8.2	8.2
50°	15.7	16.4	16.4	15.1	13.5	11.4	9.7	8.7	8.2	8.2	8.3
47.5°	13.9	15.5	15.8	15.5	14.1	12.6	10.6	9.3	8.2	8.2	8.4
45°	14.3	14.8	15.4	15.1	14.6	13.2	11.4	9.8	8.7	8.4	8.6
42.5°	15.8	15.8	15.5	14.9	14.7	13.6	12.2	10.4	9.1	8.6	8.8
40°	19.0	18.0	16.6	16.3	15.0	14.1	12.6	10.9	9.6	8.9	9.0
37.5°	23.3	21.5	19.2	19.6	16.3	14.5	12.9	11.4	10.3	9.5	9.2
35°	32.2	26.4	24.9	24.7	20.7	15.2	13.3	11.7	11.0	10.1	9.5
32.5°	43.6	35.5	33.1	30.8	26.5	16.1	13.8	12.7	11.8	10.7	9.9
30°	55.9	51.6	42.7	37.5	33.2	21.4	15.3	14.0	12.6	11.3	10.3
27.5°	75.3	69.6	54.5	46.3	39.6	28.4	18.4	15.4	13.4	11.9	10.7
25°	101.5	89.7	71.5	56.3	46.4	45.0	22.2	17.1	14.5	12.6	11.2
22.5°	138.2	113.1	89.8	66.9	73.7	66.2	31.1	20.1	15.8	13.3	11.6
20°	180.8	139.7	118.1	112.4	107.7	89.5	46.8	23.4	17.2	14.0	12.1
17.5°	231.9	205.3	196.6	169.7	145.8	116.4	64.9	27.1	18.6	14.7	12.5
15°	377.4	321.6	283.4	233.8	186.9	146.1	84.8	31.0	20.0	15.4	12.8
12.5°	549.5	444.9	376.7	303.2	230.3	177.9	105.9	35.0	21.5	16.0	12.9
10°	728.0	573.2	474.4	376.2	275.2	210.9	127.5	39.5	23.4	16.5	13.0
7.5°	909.3	704.2	574.6	451.0	319.9	243.4	151.2	44.8	25.5	16.9	13.1
5°	1074.0	817.8	656.6	510.9	359.6	273.7	174.3	50.0	27.5	17.4	13.2
2.5°	1164.4	900.9	724.1	565.4	397.9	302.2	195.7	54.9	29.5	17.8	13.2
0°	1243.9	978.3	786.9	615.3	433.9	328.3	214.5	59.4	31.3	18.1	13.2
-2.5°	1244.3	965.9	784.4	630.5	451.8	338.3	222.7	72.5	39.4	22.6	14.7
-5°	1232.2	947.6	778.0	640.4	466.1	345.3	227.6	84.8	47.0	26.8	16.2
-7.5°	1177.1	911.5	762.2	642.6	476.2	349.4	229.7	95.9	54.0	30.7	17.5
-10°	1103.5	863.2	733.2	622.5	472.0	348.3	229.1	105.6	60.2	34.1	18.7
-12.5°	1018.8	812.5	704.9	600.5	462.8	342.7	224.9	113.0	65.5	36.8	19.5
-15°	923.5	760.4	678.7	577.5	450.5	334.9	219.0	118.5	70.0	39.1	20.1
-17.5°	821.6	707.9	655.8	554.5	435.3	325.0	211.8	122.2	73.2	41.1	21.1
-20°	767.5	673.3	634.6	532.3	417.3	313.2	203.4	124.0	75.1	42.3	22.2



REPORT NUMBER: P731492 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-CV5

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	720.0	655.3	603.9	509.0	398.5	299.7	194.2	123.7	75.6	42.7	23.0
-25°	671.4	638.1	573.4	478.5	380.2	285.3	188.6	121.2	74.5	42.1	23.4
-27.5°	644.3	616.8	543.3	445.6	355.4	271.2	184.9	119.7	72.6	40.7	23.4
-30°	627.1	583.0	506.4	412.0	328.6	249.4	178.4	116.2	70.8	39.8	22.9
-32.5°	614.1	550.7	465.7	380.5	301.6	226.2	165.1	110.6	67.7	39.1	22.7
-35°	585.5	511.0	423.6	347.0	274.0	207.1	149.4	102.7	63.2	37.9	22.3
-37.5°	552.8	465.9	385.4	313.4	245.2	186.6	134.9	92.0	57.4	36.0	21.3
-40°	501.2	420.5	346.8	280.8	219.8	164.8	118.9	82.0	53.5	33.5	19.8
-42.5°	447.2	376.0	309.3	247.1	194.7	145.6	102.2	71.2	48.7	31.0	17.8
-45°	396.4	330.8	270.8	217.8	168.9	125.1	89.5	60.4	43.2	28.1	16.0
-47.5°	344.3	286.9	234.1	186.7	144.6	105.0	75.9	53.5	37.1	24.4	15.1
-50°	294.7	243.9	198.2	157.1	118.4	89.2	63.1	46.1	31.8	19.7	14.0
-52.5°	247.2	203.0	163.9	127.4	98.1	72.6	53.9	38.2	26.1	17.0	12.7
-55°	201.8	164.7	130.6	102.6	78.5	60.1	44.1	31.4	20.1	15.2	11.4
-57.5°	160.5	127.8	103.0	80.2	62.8	48.2	35.2	24.3	17.1	13.4	11.0
-60°	121.0	99.1	77.7	63.0	49.7	37.5	26.9	18.5	15.0	11.8	10.7
-62.5°	90.9	73.0	60.7	48.6	37.8	27.9	19.3	16.1	12.8	11.4	10.3
-65°	68.2	56.9	45.3	36.1	27.0	19.8	16.6	13.6	12.0	11.0	10.0
-67.5°	51.2	41.8	32.4	24.0	19.5	16.3	13.7	12.4	11.5	10.5	10.0
-70°	36.1	27.7	21.8	18.1	15.2	13.1	12.6	11.8	10.9	10.3	10.0
-72.5°	24.4	20.1	16.0	13.2	12.7	12.3	11.8	11.2	10.6	10.1	9.9
-75°	16.7	14.7	13.1	12.2	11.8	11.5	11.1	10.7	10.2	9.9	9.5
-77.5°	14.1	12.8	11.9	11.3	11.0	10.7	10.4	10.1	9.7	9.4	9.0
-80°	11.8	11.2	10.7	10.4	10.1	9.9	9.6	9.4	9.1	8.8	8.5
-82.5°	10.0	9.8	9.6	9.4	9.2	9.0	8.8	8.7	8.4	8.2	8.0
-85°	8.8	8.7	8.6	8.4	8.3	8.2	8.1	8.0	7.8	7.7	7.6
-87.5°	7.7	7.6	7.6	7.5	7.5	7.4	7.3	7.3	7.2	7.1	7.1
-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: P731492 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.6	6.6	6.6	6.6	6.6	6.6	6.6
87.5°	7.0	6.9	6.9	6.8	6.7	6.6	6.6
85°	7.4	7.3	7.2	7.0	6.9	6.7	6.6
82.5°	7.8	7.6	7.4	7.2	7.0	6.7	6.6
80°	8.2	8.0	7.7	7.4	7.1	6.7	6.6
77.5°	8.2	8.2	8.0	7.6	7.3	6.8	6.6
75°	8.2	8.2	8.2	7.8	7.4	6.8	6.6
72.5°	8.2	8.2	8.2	8.0	7.5	6.8	6.6
70°	8.2	8.2	8.2	8.2	7.6	6.9	6.6
67.5°	8.2	8.2	8.2	8.2	7.7	6.9	6.6
65°	8.2	8.2	8.2	8.2	7.8	6.9	6.6
62.5°	8.2	8.2	8.2	8.2	7.9	6.9	6.6
60°	8.2	8.2	8.2	8.2	8.0	6.9	6.6
57.5°	8.2	8.2	8.2	8.2	8.0	7.0	6.6
55°	8.2	8.2	8.2	8.2	8.0	7.0	6.6
52.5°	8.2	8.2	8.2	8.2	7.9	7.0	6.6
50°	8.2	8.2	8.2	8.2	7.9	7.0	6.6
47.5°	8.2	8.2	8.2	8.2	7.9	7.0	6.6
45°	8.4	8.2	8.2	8.2	7.9	7.0	6.6
42.5°	8.5	8.2	8.2	8.2	7.9	7.0	6.6
40°	8.7	8.2	8.2	8.2	7.9	7.0	6.6
37.5°	8.9	8.2	8.2	8.2	7.9	7.0	6.6
35°	9.2	8.3	8.2	8.2	8.0	7.0	6.6
32.5°	9.4	8.5	8.2	8.2	8.0	7.0	6.6
30°	9.7	8.7	8.2	8.2	8.0	6.9	6.6
27.5°	9.9	8.9	8.2	8.2	8.0	6.9	6.6
25°	10.2	9.1	8.2	8.2	8.0	6.9	6.6
22.5°	10.5	9.2	8.2	8.2	8.0	6.9	6.6
20°	10.8	9.4	8.2	8.2	8.1	6.9	6.6
17.5°	11.0	9.5	8.2	8.2	8.1	6.8	6.6
15°	11.2	9.6	8.2	8.2	8.1	6.8	6.6
12.5°	11.3	9.7	8.2	8.2	8.1	6.8	6.6
10°	11.4	9.8	8.2	8.2	8.2	6.7	6.6
7.5°	11.4	9.8	8.2	8.2	8.2	6.7	6.6
5°	11.5	9.9	8.2	8.2	8.2	6.7	6.6
2.5°	11.5	9.9	8.2	8.2	8.2	6.6	6.6
0°	11.5	9.9	8.2	8.2	8.2	6.6	6.6
-2.5°	11.7	10.1	8.3	8.2	8.2	6.6	6.6
-5°	11.9	10.2	8.5	8.2	8.2	6.7	6.6
-7.5°	12.1	10.4	8.6	8.2	8.2	6.7	6.6
-10°	12.3	10.5	8.8	8.2	8.2	6.7	6.6
-12.5°	12.4	10.6	8.9	8.2	8.1	6.8	6.6
-15°	12.5	10.7	9.0	8.2	8.1	6.8	6.6
-17.5°	12.6	10.7	9.0	8.2	8.1	6.8	6.6
-20°	13.0	10.8	9.1	8.2	8.1	6.9	6.6



REPORT NUMBER: P731492 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	13.7	10.8	9.1	8.2	8.0	6.9	6.6
-25°	14.2	10.9	9.1	8.2	8.0	6.9	6.6
-27.5°	14.4	10.9	9.1	8.2	8.0	6.9	6.6
-30°	14.3	10.8	9.0	8.2	8.0	6.9	6.6
-32.5°	13.9	10.7	8.9	8.2	8.0	7.0	6.6
-35°	13.6	10.5	8.8	8.2	8.0	7.0	6.6
-37.5°	13.3	10.3	8.7	8.2	7.9	7.0	6.6
-40°	13.0	10.1	8.5	8.2	7.9	7.0	6.6
-42.5°	12.4	9.9	8.5	8.2	7.9	7.0	6.6
-45°	11.8	9.7	8.6	8.3	7.9	7.0	6.6
-47.5°	11.0	9.5	8.6	8.3	7.9	7.0	6.6
-50°	10.7	9.3	8.7	8.3	7.9	7.0	6.6
-52.5°	10.4	9.1	8.7	8.3	7.9	7.0	6.6
-55°	10.1	9.1	8.7	8.3	8.0	7.0	6.6
-57.5°	9.8	9.2	8.8	8.3	8.0	7.0	6.6
-60°	9.6	9.2	8.8	8.3	8.0	6.9	6.6
-62.5°	9.6	9.2	8.8	8.3	7.9	6.9	6.6
-65°	9.7	9.3	8.7	8.3	7.8	6.9	6.6
-67.5°	9.7	9.2	8.6	8.2	7.7	6.9	6.6
-70°	9.8	9.0	8.5	8.2	7.6	6.9	6.6
-72.5°	9.4	8.8	8.4	8.0	7.5	6.8	6.6
-75°	9.1	8.5	8.2	7.8	7.4	6.8	6.6
-77.5°	8.7	8.3	8.0	7.6	7.3	6.8	6.6
-80°	8.3	8.0	7.7	7.4	7.1	6.7	6.6
-82.5°	7.8	7.6	7.4	7.2	7.0	6.7	6.6
-85°	7.4	7.3	7.2	7.0	6.9	6.7	6.6
-87.5°	7.0	6.9	6.9	6.8	6.7	6.6	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

