

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: P731482 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-3S-CV1**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731482 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0530N-40-80-3S-CV1  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

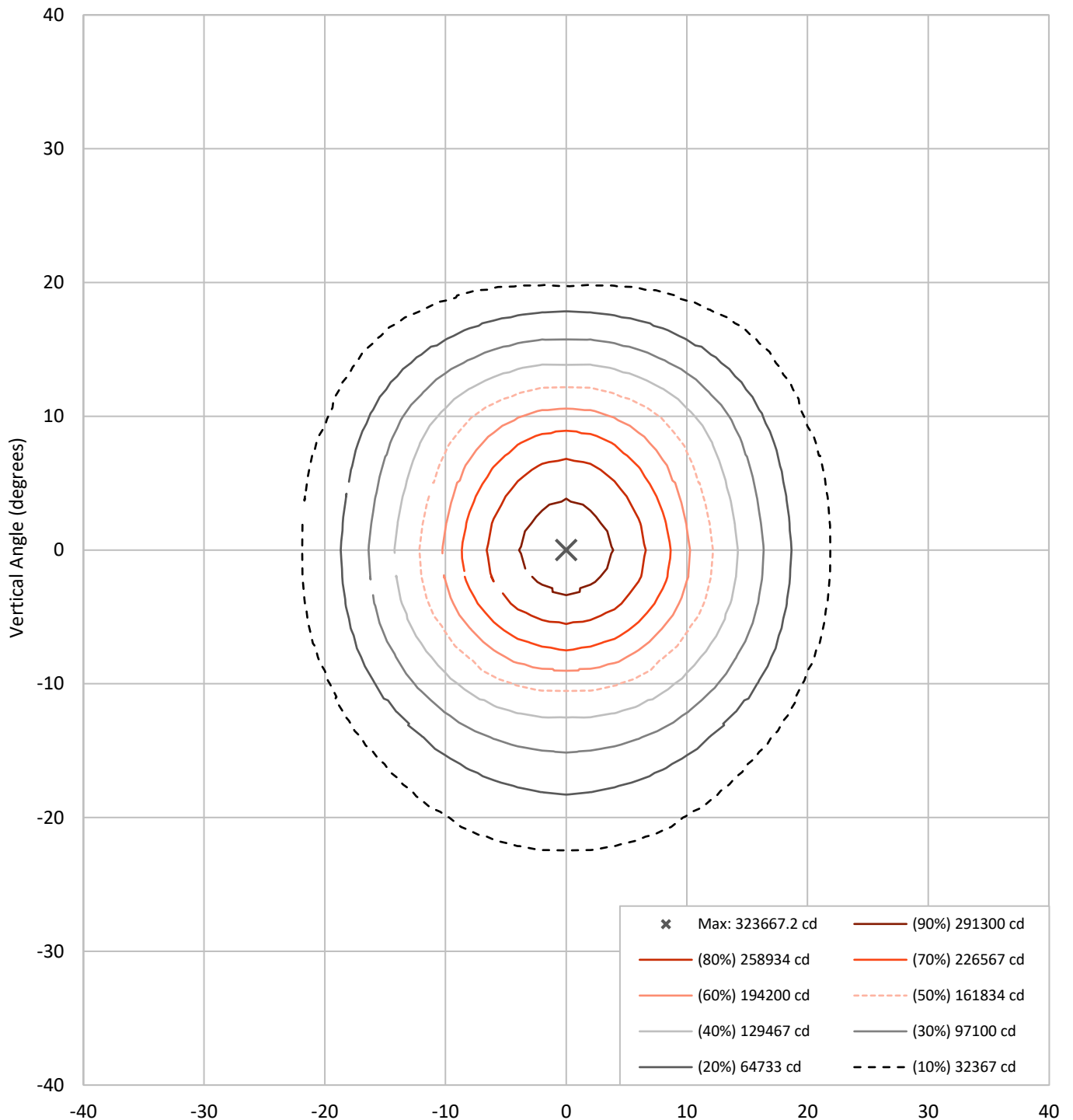
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	67082.6 lumens	Max Intensity:	323667.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	119.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24.3°H x 22.7°V	Field Angle (10%):	43.8°H x 42.1°V
Beam Lumens:	31632.6 lumens	Field Lumens:	57145.7 lumens
Beam Efficiency:	47.2%	Field Efficiency:	85.2%

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

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### Iso-Candela Plot





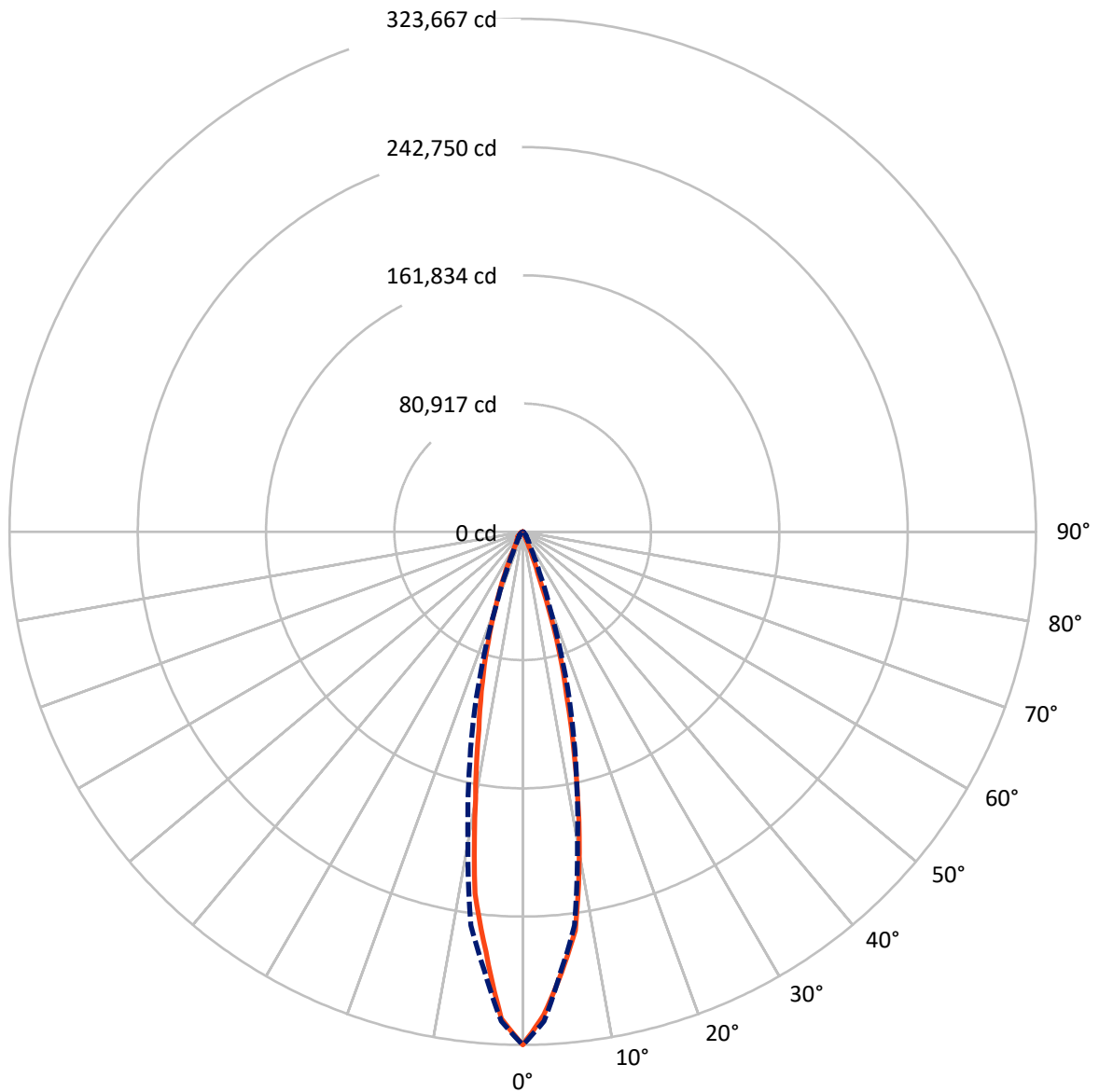
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### Lumen Table

90	0.1		0.2		0.4		0.4		0.4		0.4		0.2		0.1	
80	0.1		0.2		0.4		0.4		0.4		0.4		0.2		0.1	
70	0.1	0.1	0.1	0.6	0.7	0.5	0.3	0.3	0.3	0.3	0.5	0.7	0.6	0.1	0.1	0.1
60		0.1	0.4	0.7	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.7	0.4	0.1	
50	0.1	0.2	0.6	0.6	0.6	1.0	1.8	1.2	1.2	1.8	1.0	0.6	0.6	0.6	0.2	0.1
40		0.4	1.1	2.6	4.7	6.8	9.4	11.2	11.2	9.4	6.8	4.7	2.6	1.1	0.4	
30	0.2	0.6	4.6	14.3	33.1	55.1	113.2	217.8	217.8	113.2	55.1	33.1	14.3	4.6	0.6	0.2
20		1.4	9.8	36.4	88.2	233.5	1285.6	3033.9	3033.9	1285.6	233.5	88.2	36.4	9.8	1.4	
10	0.3	2.1	13.0	48.5	113.5	498.0	3082.0	7228.0	7228.0	3082.0	498.0	113.5	48.5	13.0	2.1	0.3
0		2.6	13.9	49.3	113.7	493.1	3028.2	6926.7	6926.7	3028.2	493.1	113.7	49.3	13.9	2.6	
-10	0.6	3.1	13.2	40.9	89.4	235.4	1227.7	2771.0	2771.0	1227.7	235.4	89.4	40.9	13.2	3.1	0.6
-20		3.3	12.2	30.6	76.2	133.4	305.5	624.5	624.5	305.5	133.4	76.2	30.6	12.2	3.3	
-30	0.5	2.9	10.5	23.2	56.2	110.3	155.0	190.3	190.3	155.0	110.3	56.2	23.2	10.5	2.9	0.5
-40		2.1	8.0	18.3	34.1	60.6	99.2	127.0	127.0	99.2	60.6	34.1	18.3	8.0	2.1	
-50	0.2	1.0	4.9	12.3	23.3	35.9	48.0	55.6	55.6	48.0	35.9	23.3	12.3	4.9	1.0	0.2
-60		0.4	1.7	5.3	10.9	17.2	23.5	27.1	27.1	23.5	17.2	10.9	5.3	1.7	0.4	
-70	0.1	1.0	3.4	8.8	12.0	8.8	3.4	1.0	0.1	0.1	3.4	8.8	12.0	8.8	3.4	0.1
-80		1.0	3.4	8.8	12.0	8.8	3.4	1.0	0.1	0.1	3.4	8.8	12.0	8.8	3.4	
-90	0.1		1.0		3.4		8.8		12.0		8.8		3.4		1.0	

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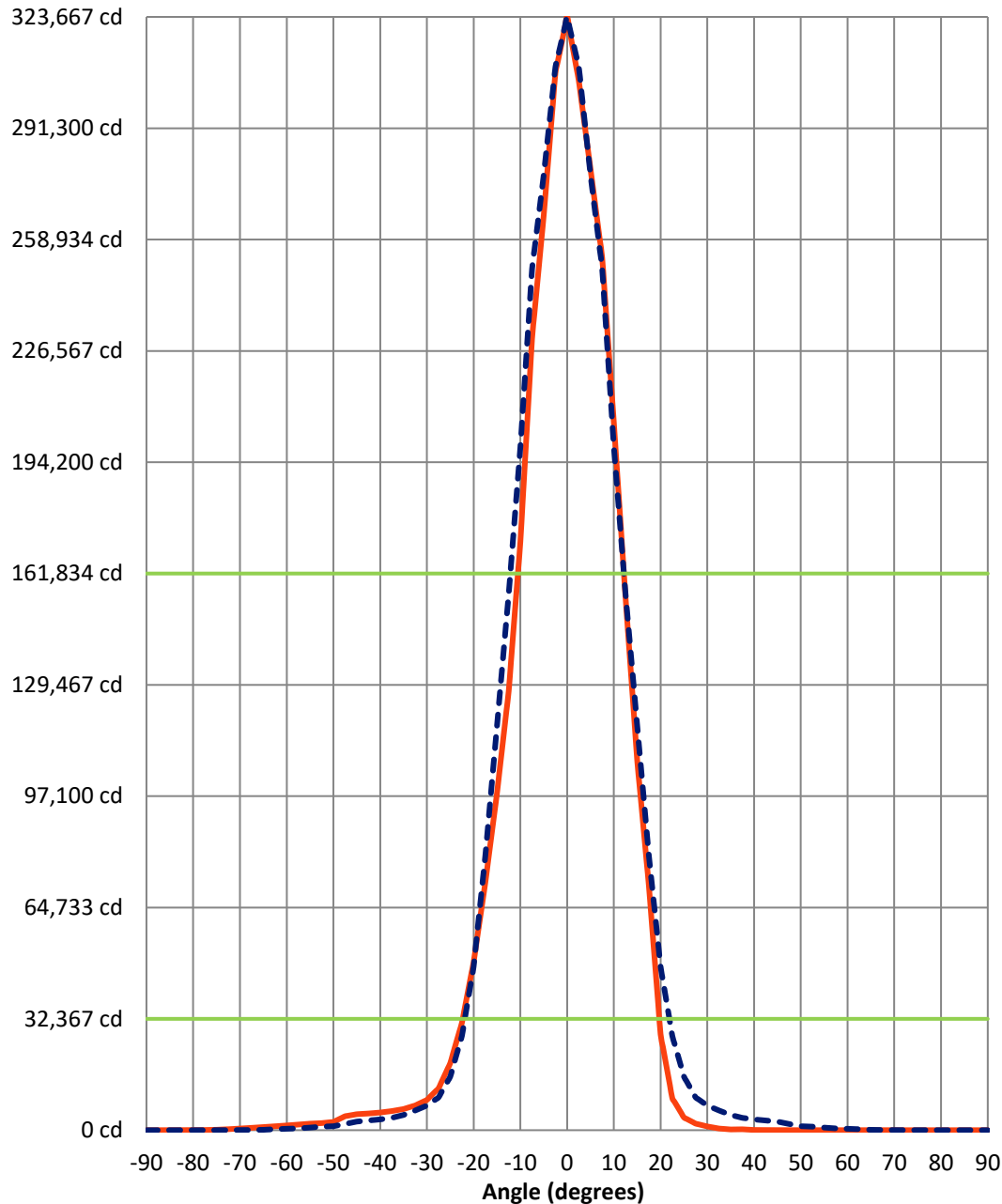
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 24.3°  
 V Angle: 22.7°  
 Lumens: 31632.6  
 Efficiency: 47.2%

**Field:**  
 H Angle: 43.8°  
 V Angle: 42.1°  
 Lumens: 57145.7  
 Efficiency: 85.2%

**Spill:**  
 Lumens: 9936.9  
 Efficiency: 14.8%

— 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°	3.3	4.1	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
87.5°	3.3	3.4	3.4	3.5	3.4	3.4	3.3	3.3	3.3	3.3	3.3
85°	3.3	3.4	3.6	3.6	3.6	3.5	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.5	3.7	3.8	3.7	3.6	3.3	3.3	3.3	3.4	3.3
80°	3.3	3.6	3.9	3.9	3.9	3.7	3.4	3.5	3.6	3.5	3.3
77.5°	3.3	3.6	4.0	4.1	4.0	3.8	3.8	3.9	3.9	3.7	3.4
75°	3.3	3.7	4.1	4.3	4.2	4.1	4.2	4.3	4.2	3.8	3.4
72.5°	3.3	3.8	4.3	4.4	4.3	4.3	4.6	4.6	4.2	3.9	3.5
70°	3.3	3.8	4.4	4.6	4.4	4.6	4.9	4.7	4.3	3.9	4.0
67.5°	3.3	3.9	4.5	4.6	4.6	4.8	4.9	4.7	4.3	4.3	4.5
65°	3.3	4.0	4.7	4.7	4.7	4.9	4.9	4.7	4.5	4.7	4.9
62.5°	3.3	4.0	4.8	4.7	4.8	4.9	4.9	4.8	4.7	5.0	5.1
60°	3.3	4.1	4.9	4.8	4.9	4.9	4.9	4.9	4.9	5.3	5.4
57.5°	3.3	4.2	4.9	4.8	4.9	4.9	5.0	4.9	5.2	5.6	5.6
55°	3.3	4.2	4.9	4.8	4.9	4.9	5.1	5.0	5.7	6.0	6.0
52.5°	3.3	4.3	4.9	4.9	4.9	4.9	5.2	5.4	6.1	6.5	6.4
50°	3.3	4.3	4.9	4.9	4.9	5.1	5.4	5.9	6.6	7.0	8.7
47.5°	3.3	4.4	4.9	4.9	4.9	5.3	5.6	6.4	7.1	7.5	10.9
45°	3.3	4.4	4.9	4.9	4.9	5.4	6.0	6.8	7.7	9.3	12.9
42.5°	3.3	4.5	4.9	4.9	4.9	5.6	6.4	7.3	8.1	10.9	16.6
40°	3.3	4.5	4.9	4.9	5.0	5.9	6.7	7.7	8.9	12.3	20.5
37.5°	3.3	4.6	4.9	4.9	5.2	6.1	7.1	8.1	10.0	14.1	24.2
35°	3.3	4.6	4.9	4.9	5.3	6.4	7.4	8.5	11.0	17.5	27.1
32.5°	3.3	4.6	4.9	4.9	5.5	6.6	7.8	8.9	11.9	20.8	29.8
30°	3.3	4.7	4.9	4.9	5.7	6.9	8.1	9.4	12.7	24.1	32.6
27.5°	3.3	4.7	4.9	4.9	5.8	7.1	8.4	10.1	14.2	27.4	35.5
25°	3.3	4.8	4.9	4.9	6.0	7.4	8.7	10.7	16.8	30.0	38.5
22.5°	3.3	4.8	4.9	4.9	6.1	7.6	9.0	11.2	19.3	32.4	43.9
20°	3.3	4.8	4.9	4.9	6.2	7.7	9.2	11.7	21.7	34.7	49.7
17.5°	3.3	4.8	4.9	4.9	6.3	7.8	9.5	12.1	23.9	37.0	55.7
15°	3.3	4.8	4.9	4.9	6.4	7.9	9.8	12.6	26.0	39.2	62.0
12.5°	3.3	4.9	4.9	4.9	6.4	8.0	10.1	13.3	28.4	41.3	68.2
10°	3.3	4.9	4.9	4.9	6.5	8.1	10.4	14.0	31.0	44.7	75.2
7.5°	3.3	4.9	4.9	4.9	6.5	8.1	10.7	14.6	33.5	48.2	83.8
5°	3.3	4.9	4.9	4.9	6.6	8.2	11.0	15.3	35.8	51.6	92.1
2.5°	3.3	4.9	4.9	4.9	6.6	8.2	11.3	15.9	37.8	54.7	99.9
0°	3.3	4.9	4.9	4.9	6.6	8.2	11.5	16.4	39.5	57.6	106.9
-2.5°	3.3	4.9	5.0	5.1	6.9	8.9	13.5	21.5	48.5	72.4	125.9
-5°	3.3	4.9	5.0	5.3	7.2	9.6	15.3	26.5	57.1	86.5	143.7
-7.5°	3.3	4.9	5.1	5.5	7.4	10.3	17.1	31.1	64.8	99.8	160.1
-10°	3.3	4.9	5.2	5.7	7.7	10.9	18.7	35.2	71.7	111.9	174.8
-12.5°	3.3	4.9	5.3	5.9	7.9	11.4	20.1	38.8	77.6	122.8	189.7
-15°	3.3	4.9	5.3	6.1	8.1	11.9	21.2	41.7	82.8	132.6	202.9
-17.5°	3.3	4.8	5.4	6.3	8.3	12.3	22.1	44.5	87.4	140.8	212.9
-20°	3.3	4.8	5.4	6.5	8.5	12.6	22.9	46.8	90.5	147.3	219.6



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-3S-CV1

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.3	4.8	5.5	6.6	8.6	12.7	23.6	48.1	91.9	151.9	222.6
-25°	3.3	4.8	5.5	6.7	8.8	12.9	23.8	48.4	91.7	154.4	221.7
-27.5°	3.3	4.8	5.5	6.8	8.9	13.0	23.5	47.4	89.6	154.6	223.8
-30°	3.3	4.7	5.5	6.9	9.0	12.9	22.5	45.3	87.6	151.8	223.4
-32.5°	3.3	4.7	5.5	7.0	9.1	12.7	20.9	43.8	85.0	146.5	220.2
-35°	3.3	4.7	5.5	7.0	9.1	12.3	20.1	41.9	80.6	138.7	214.1
-37.5°	3.3	4.7	5.5	7.0	9.1	12.0	19.6	39.0	74.5	128.2	200.5
-40°	3.3	4.6	5.5	7.0	9.1	12.0	18.9	35.1	66.5	118.5	183.5
-42.5°	3.3	4.6	5.4	7.0	9.0	11.9	17.9	30.2	59.7	106.0	164.0
-45°	3.3	4.6	5.4	6.9	8.9	11.7	16.7	26.2	52.9	91.5	142.9
-47.5°	3.3	4.6	5.3	6.8	8.8	11.5	15.2	24.5	44.8	75.3	124.4
-50°	3.3	4.5	5.3	6.7	8.6	11.2	14.7	22.4	35.1	64.1	103.8
-52.5°	3.3	4.5	5.2	6.6	8.5	10.8	14.2	20.0	29.9	51.9	82.1
-55°	3.3	4.5	5.1	6.4	8.3	10.5	13.6	17.5	26.6	38.7	66.9
-57.5°	3.3	4.5	5.0	6.3	8.1	10.2	12.9	16.6	23.0	32.4	50.7
-60°	3.3	4.4	4.9	6.1	7.8	9.8	12.2	15.6	19.8	28.0	37.4
-62.5°	3.3	4.4	4.9	5.9	7.5	9.4	11.6	14.6	18.5	23.4	32.1
-65°	3.3	4.4	4.9	5.7	7.2	9.0	11.0	13.5	17.1	21.1	26.4
-67.5°	3.3	4.4	4.9	5.5	6.9	8.5	10.4	12.8	15.6	19.2	23.2
-70°	3.3	4.3	4.9	5.3	6.5	8.0	9.7	11.9	14.5	17.3	20.9
-72.5°	3.3	4.3	4.9	5.2	6.2	7.5	9.0	11.0	13.4	15.9	18.7
-75°	3.3	4.3	4.9	5.2	5.8	6.9	8.2	10.1	12.2	14.4	16.9
-77.5°	3.3	4.3	4.9	5.2	5.6	6.3	7.5	9.1	10.9	12.9	15.0
-80°	3.3	4.2	4.9	5.1	5.5	6.0	6.7	8.1	9.6	11.3	13.1
-82.5°	3.3	4.2	4.9	5.1	5.3	5.7	6.2	7.1	8.3	9.7	11.1
-85°	3.3	4.2	4.9	5.0	5.2	5.4	5.8	6.4	7.2	8.1	9.1
-87.5°	3.3	4.1	4.9	5.0	5.0	5.2	5.3	5.7	6.0	6.5	7.0
-90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	5.3	5.8	6.2	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
87.5°	2.9	2.5	2.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	2.9	2.5	2.1	1.9	1.9	1.8	1.8	1.6	1.6	1.6	1.6
82.5°	3.1	2.9	2.8	2.8	2.7	2.4	2.1	1.8	1.9	1.9	1.8
80°	3.2	3.3	3.3	3.3	3.1	3.0	2.9	3.0	2.9	2.6	2.4
77.5°	3.3	3.3	3.3	3.3	3.3	3.4	3.7	4.1	4.1	3.9	3.7
75°	3.3	3.3	3.4	3.4	3.5	3.8	4.4	4.8	4.8	4.6	4.6
72.5°	3.6	3.8	3.7	3.5	3.8	4.4	4.7	4.9	5.9	7.2	8.2
70°	4.2	4.3	4.2	4.3	4.6	5.3	7.0	9.3	11.7	13.3	15.5
67.5°	4.8	4.6	4.7	5.1	6.2	8.2	10.8	16.6	23.0	25.6	26.8
65°	4.9	4.8	5.3	6.4	8.0	12.9	19.3	26.8	34.7	36.5	36.3
62.5°	4.9	5.1	6.0	8.5	13.1	19.2	27.5	35.9	44.2	42.9	37.8
60°	5.1	5.3	8.3	13.2	18.7	26.8	35.9	40.4	43.0	42.7	36.8
57.5°	5.3	7.2	12.3	18.5	26.3	33.3	36.2	38.9	40.4	41.7	34.6
55°	6.6	10.6	16.9	25.1	31.4	32.8	34.5	35.5	36.8	34.2	26.4
52.5°	9.7	14.4	22.6	29.8	32.6	32.3	30.7	30.8	28.5	24.9	21.0
50°	12.5	19.7	27.6	32.1	33.4	30.9	26.6	25.2	22.8	19.9	17.2
47.5°	16.7	25.0	30.6	34.3	33.5	30.0	24.9	21.8	19.3	18.6	16.0
45°	21.4	28.6	33.9	35.5	33.8	29.4	25.2	19.7	20.9	20.7	20.4
42.5°	25.8	31.7	36.2	37.5	33.8	30.9	27.2	25.9	25.8	29.0	31.2
40°	28.6	34.6	38.8	39.2	35.2	34.4	36.9	38.5	37.0	42.6	47.3
37.5°	31.2	37.6	42.9	44.9	39.8	43.8	50.0	67.3	69.0	59.0	75.6
35°	33.6	41.2	51.0	58.6	58.4	58.8	85.3	111.6	123.9	108.4	122.8
32.5°	36.6	45.2	62.1	82.1	98.7	101.3	130.1	183.6	208.7	209.8	207.8
30°	40.9	55.8	79.5	112.4	154.2	194.8	216.7	275.6	315.9	385.1	437.4
27.5°	47.0	69.5	108.8	163.7	229.7	310.1	359.1	393.1	492.7	622.0	761.3
25°	53.8	97.0	142.6	229.5	341.5	443.8	506.2	547.1	721.0	977.4	1156.8
22.5°	68.8	132.4	192.1	304.2	467.9	582.8	648.7	780.6	1050.2	1394.5	1606.9
20°	94.6	175.7	250.1	372.3	597.1	725.1	787.5	1049.2	1465.5	1818.4	2111.0
17.5°	124.4	219.3	307.7	452.2	669.8	834.6	940.7	1336.8	1907.8	2224.8	2559.9
15°	157.2	262.9	359.0	523.1	739.8	899.5	1128.9	1683.5	2312.4	2615.1	2960.9
12.5°	191.9	305.9	404.4	585.4	808.7	959.4	1297.5	1930.7	2521.2	2931.2	3379.7
10°	227.3	348.0	444.5	639.1	875.2	1014.5	1455.7	2136.8	2631.6	3017.2	3540.6
7.5°	249.2	376.9	477.3	684.5	937.9	1064.9	1600.2	2303.2	2710.0	3068.2	3562.5
5°	265.2	390.9	493.5	715.4	981.5	1104.9	1718.1	2431.5	2761.0	3088.5	3523.5
2.5°	276.9	401.8	507.1	738.6	1008.4	1132.5	1773.5	2480.8	2794.7	3113.4	3529.3
0°	284.5	409.5	518.0	754.8	1026.2	1156.1	1802.4	2498.0	2815.4	3134.5	3588.4
-2.5°	294.6	420.7	535.3	771.3	1030.7	1161.3	1806.6	2491.3	2827.3	3184.9	3652.2
-5°	301.2	428.8	549.1	780.7	1027.4	1162.0	1783.9	2455.7	2810.1	3172.5	3627.6
-7.5°	305.2	433.8	559.0	781.4	1009.8	1144.5	1706.5	2343.9	2713.7	3053.7	3501.0
-10°	308.4	440.8	568.3	768.2	975.8	1113.8	1597.3	2211.0	2606.6	2919.8	3339.8
-12.5°	318.8	450.3	575.3	752.1	941.0	1079.3	1463.8	2061.3	2491.1	2772.7	3166.0
-15°	326.0	458.0	579.4	734.6	907.2	1041.1	1306.8	1898.1	2403.1	2719.4	3056.6
-17.5°	330.3	464.2	580.8	716.8	876.4	999.5	1134.3	1746.7	2333.0	2690.5	3001.8
-20°	331.6	469.2	579.8	700.0	849.3	974.8	1096.0	1563.0	2161.6	2644.4	2953.5



REPORT NUMBER: P731482 (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°	330.0	473.3	578.3	692.3	831.7	963.7	1081.4	1359.9	1935.3	2578.0	2891.5
-25°	329.0	467.7	578.1	681.5	812.0	950.2	1066.2	1170.0	1680.9	2322.7	2808.3
-27.5°	326.9	459.0	566.4	664.4	787.3	931.4	1048.3	1150.7	1446.4	2032.6	2677.6
-30°	319.5	435.6	550.5	642.9	762.3	899.4	1028.1	1136.6	1247.1	1736.4	2338.2
-32.5°	303.0	410.1	524.2	622.1	731.2	862.5	999.5	1111.7	1224.0	1403.5	1974.2
-35°	285.5	386.0	493.5	596.2	693.7	819.9	950.8	1078.4	1190.1	1307.5	1586.0
-37.5°	272.0	359.6	461.5	563.9	660.7	771.5	896.8	1025.9	1146.3	1267.5	1404.6
-40°	255.6	330.9	429.5	527.7	624.3	724.4	840.0	962.0	1088.1	1227.7	1356.3
-42.5°	236.2	309.5	395.9	490.4	584.1	680.1	779.9	895.5	1027.3	1175.0	1311.0
-45°	211.7	285.2	361.4	450.0	540.5	632.0	726.9	827.0	959.2	1100.1	1244.8
-47.5°	184.5	256.8	330.5	406.2	493.1	581.3	669.9	771.0	882.7	1013.9	1154.5
-50°	156.1	223.1	295.0	365.0	441.7	526.4	611.9	709.3	814.5	923.8	1046.9
-52.5°	130.2	186.3	253.4	322.7	391.7	466.8	550.3	641.1	738.6	842.6	943.8
-55°	102.0	152.2	207.9	274.0	342.0	409.0	480.7	564.0	653.7	748.7	843.5
-57.5°	79.3	116.9	164.9	220.0	284.4	351.1	414.8	481.3	559.8	645.0	727.9
-60°	59.5	86.3	122.7	169.4	221.1	282.6	346.2	407.7	470.0	532.8	606.2
-62.5°	41.3	62.2	87.3	119.6	164.0	212.0	267.8	326.3	385.7	439.8	493.4
-65°	34.7	41.7	59.0	82.6	107.6	148.2	192.8	239.5	291.7	338.4	386.6
-67.5°	27.7	34.1	40.4	49.8	71.3	94.8	120.1	159.5	200.2	233.9	268.3
-70°	24.2	27.0	32.1	37.7	43.1	52.6	73.2	95.2	117.1	139.0	167.2
-72.5°	21.3	23.7	26.2	29.0	33.4	38.0	42.6	47.3	59.6	76.3	91.7
-75°	18.7	20.3	22.3	24.6	26.8	28.9	31.1	35.0	38.8	42.6	46.5
-77.5°	16.3	17.5	18.9	20.3	21.9	23.7	25.5	27.2	28.7	30.3	31.9
-80°	14.0	14.8	15.7	16.7	17.8	18.9	20.2	21.5	22.5	23.5	24.6
-82.5°	11.8	12.3	12.9	13.4	13.9	14.4	15.0	15.8	16.5	17.2	17.9
-85°	9.5	9.9	10.3	10.6	11.0	11.3	11.6	11.9	12.2	12.5	12.8
-87.5°	7.4	7.8	8.2	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2
-90°	2.9	2.5	2.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



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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	7.0	7.4	7.8	8.2	8.2	8.2	8.2	8.2	8.2	8.2
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.2	0.8
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	2.1	2.1	2.0	1.9	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	3.5	3.3	3.1	2.8	2.6	2.4	2.2	2.0	1.6	1.6	1.6
75°	4.7	4.8	4.9	4.7	4.2	3.9	3.6	3.3	3.0	3.1	3.1
72.5°	8.7	8.7	8.4	8.3	7.7	7.5	7.6	7.5	7.2	7.4	7.7
70°	16.9	17.3	16.9	15.8	14.1	12.8	12.1	11.1	9.9	9.8	10.3
67.5°	26.5	25.3	23.8	21.8	18.8	16.4	15.1	13.9	12.8	12.5	12.8
65°	33.7	28.6	25.1	22.2	19.9	17.6	16.0	14.4	12.8	11.9	11.8
62.5°	32.6	26.7	22.9	20.2	18.0	16.1	14.2	12.3	10.4	9.2	9.3
60°	30.6	24.1	19.1	16.6	14.7	13.3	11.6	10.1	8.9	8.2	8.3
57.5°	26.0	19.0	14.5	13.4	12.1	10.6	9.4	8.8	8.4	8.2	8.2
55°	20.1	16.1	13.4	12.0	10.5	9.1	8.3	8.5	8.4	8.2	8.6
52.5°	16.6	14.2	12.4	11.0	10.3	9.9	9.8	9.8	9.9	10.2	10.4
50°	14.8	13.2	12.3	11.4	11.3	11.4	11.4	11.9	12.3	12.5	12.4
47.5°	14.9	14.3	15.0	13.1	13.4	14.7	14.7	14.9	15.9	16.3	16.1
45°	18.8	22.7	22.8	21.0	19.9	24.3	24.6	22.2	34.1	33.4	25.3
42.5°	33.6	35.8	36.0	38.0	42.1	55.3	79.8	102.0	105.4	92.6	63.5
40°	54.2	52.4	56.5	67.8	100.5	130.4	152.9	220.5	219.9	172.1	173.3
37.5°	88.3	86.3	92.6	126.9	137.5	118.8	167.4	172.1	147.4	175.6	178.1
35°	152.0	172.3	150.2	186.4	188.2	168.3	180.7	201.6	171.9	205.7	220.3
32.5°	277.0	312.8	316.2	313.4	332.1	350.3	339.6	390.6	399.7	433.5	470.7
30°	450.0	519.0	571.7	561.6	592.5	646.9	664.7	742.5	820.0	868.1	985.8
27.5°	784.2	819.0	927.2	1003.2	985.6	1074.4	1250.7	1305.2	1527.5	1634.0	1787.3
25°	1241.7	1303.6	1457.7	1638.3	1715.7	1864.6	2150.8	2287.8	2579.8	2728.9	3291.0
22.5°	1808.6	2018.1	2211.4	2454.2	2802.6	3098.4	3416.7	3951.7	4820.9	6069.8	7560.7
20°	2455.8	2806.9	3099.3	3547.8	4125.3	4681.8	5505.1	7879.1	10400.4	15659.5	19232.6
17.5°	3068.1	3625.5	4034.0	4629.6	5482.6	6875.6	9711.9	15018.3	23357.9	33545.6	43270.5
15°	3545.9	4115.6	4872.8	5771.8	7074.7	9800.7	14981.4	25470.1	41370.3	56894.1	73227.8
12.5°	3949.7	4552.2	5382.1	6600.0	8548.6	13448.5	22763.6	38563.3	59523.8	82633.8	107051.9
10°	4209.6	4941.2	5935.1	7543.5	10781.8	17743.1	29853.1	51025.1	79199.5	109371.9	136511.9
7.5°	4255.3	5148.1	6407.0	8363.5	12997.5	22223.2	38285.5	63191.7	94048.5	128031.3	162212.1
5°	4273.6	5340.7	6805.9	9007.5	14519.7	25463.8	43143.0	70986.5	105248.7	140149.6	176936.2
2.5°	4322.4	5529.9	7098.6	9458.2	15397.9	27396.3	45950.2	76569.9	112716.4	150614.5	191629.4
0°	4423.8	5727.9	7161.9	9535.0	15581.9	27437.3	47569.5	79769.3	117586.8	155876.3	198657.0
-2.5°	4478.8	5702.5	7108.5	9378.4	15344.7	27441.6	46013.3	77543.4	115047.0	152405.3	195515.9
-5°	4384.3	5447.9	6779.6	8905.6	14306.6	25247.1	42921.9	71795.8	106411.6	140000.7	174667.5
-7.5°	4181.6	5089.6	6312.2	8234.4	12696.9	21845.5	37334.2	61043.5	90437.8	119638.8	146647.1
-10°	3945.4	4709.8	5712.5	7259.9	10422.2	17273.1	29212.1	47867.2	73115.3	98183.1	120975.7
-12.5°	3690.6	4285.8	5028.3	6098.5	8067.2	13042.3	22139.0	36437.2	53895.4	72806.1	93508.8
-15°	3472.8	3911.6	4474.4	5385.9	6887.5	9716.3	14860.9	24375.8	36894.6	51719.6	66980.7
-17.5°	3326.4	3652.7	4142.8	4838.1	5761.1	7441.3	11164.7	16806.0	24861.0	35956.5	46035.6
-20°	3221.4	3528.2	3917.1	4464.5	5237.6	6422.2	8244.2	12132.3	17432.7	24624.4	31465.9



REPORT NUMBER: P731482 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-3S-CV1

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3146.4	3422.5	3751.2	4191.7	4882.1	5807.8	6970.7	8857.8	12195.9	16436.8	21193.1
-25°	3072.6	3301.6	3664.2	4137.8	4612.3	5274.8	6078.5	7005.1	8783.4	10668.9	13588.4
-27.5°	2988.2	3271.6	3676.6	4119.1	4546.7	4875.4	5446.0	6085.0	7026.6	7938.2	9438.1
-30°	2926.8	3289.1	3692.1	4117.4	4446.8	4737.4	5056.4	5544.8	6154.1	6798.3	7487.9
-32.5°	2620.9	3235.2	3648.8	4030.1	4302.6	4572.6	4855.3	5194.0	5583.6	5991.7	6410.5
-35°	2211.0	2865.2	3506.8	3805.8	4081.9	4354.2	4649.0	4923.5	5198.3	5474.3	5737.3
-37.5°	1708.6	2349.7	2955.8	3478.1	3795.1	4072.4	4386.7	4668.4	4909.4	5116.8	5319.2
-40°	1492.6	1716.5	2302.8	2852.5	3313.9	3753.4	4049.6	4361.6	4630.4	4821.7	4993.5
-42.5°	1433.1	1559.3	1689.3	2110.8	2620.2	3071.9	3473.7	3864.0	4233.5	4499.5	4704.0
-45°	1381.6	1488.3	1599.6	1724.0	1848.1	2244.1	2661.8	3082.3	3517.2	3906.5	4221.7
-47.5°	1286.1	1415.4	1525.1	1627.9	1726.7	1839.3	1955.7	2123.2	2504.8	2894.3	3249.4
-50°	1168.2	1289.4	1411.6	1533.3	1624.7	1711.2	1799.7	1899.6	2010.8	2124.3	2220.0
-52.5°	1039.8	1151.2	1264.1	1371.4	1473.8	1573.3	1670.5	1758.6	1841.4	1921.4	1968.3
-55°	935.5	1024.7	1113.6	1205.5	1298.9	1390.0	1480.3	1571.3	1659.1	1742.9	1789.7
-57.5°	813.8	902.7	987.8	1057.9	1130.3	1204.3	1281.6	1360.1	1437.0	1508.6	1548.9
-60°	681.7	758.8	832.5	900.5	967.7	1033.3	1096.6	1158.8	1218.6	1270.6	1302.3
-62.5°	548.7	611.5	672.6	730.5	786.9	842.2	901.4	957.7	1010.5	1053.3	1079.6
-65°	435.4	483.3	525.8	567.4	608.5	655.9	706.3	754.1	798.9	833.7	856.8
-67.5°	308.4	349.5	388.5	425.6	459.8	493.5	529.4	564.4	598.2	624.3	642.9
-70°	194.3	220.3	246.0	273.4	303.3	333.0	362.5	389.8	414.6	433.3	447.5
-72.5°	105.9	118.4	131.5	150.9	169.6	189.4	209.8	229.0	246.9	259.5	268.8
-75°	50.3	55.8	65.9	74.9	82.9	91.7	100.5	108.6	116.1	119.9	122.1
-77.5°	34.5	37.2	39.7	42.0	44.0	46.6	49.4	52.2	55.0	56.8	58.2
-80°	25.7	26.8	27.9	29.0	30.1	31.3	32.5	33.6	34.6	35.5	36.3
-82.5°	18.5	19.1	19.7	20.2	20.7	21.5	22.3	23.1	23.8	24.5	25.1
-85°	13.0	13.4	13.7	14.0	14.2	14.6	15.1	15.6	16.1	16.2	16.3
-87.5°	9.3	9.8	10.3	10.7	11.2	11.2	11.3	11.3	11.4	11.4	11.4
-90°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.2	0.8



REPORT NUMBER: P731482 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-3S-CV1

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	8.2	8.2	9.1	9.9	9.1	8.2	8.2	8.2	8.2	8.2	8.2
87.5°	0.4	0.0	0.8	1.6	0.8	0.0	0.4	0.8	1.2	1.6	1.6
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	1.6	1.6	2.4	3.3	2.4	1.6	1.6	1.6	1.6	1.6	2.0
75°	3.2	3.3	3.3	3.3	3.3	3.3	3.2	3.1	3.1	3.0	3.3
72.5°	7.9	8.1	8.2	8.2	8.2	8.1	7.9	7.7	7.4	7.2	7.5
70°	10.8	11.3	11.5	11.5	11.5	11.3	10.8	10.3	9.8	9.9	11.1
67.5°	13.0	13.1	13.2	13.2	13.2	13.1	13.0	12.8	12.5	12.8	13.9
65°	11.7	11.6	10.8	9.9	10.8	11.6	11.7	11.8	11.9	12.8	14.4
62.5°	9.5	9.9	9.9	9.9	9.9	9.9	9.5	9.3	9.2	10.4	12.3
60°	8.3	8.3	8.2	8.2	8.2	8.3	8.3	8.3	8.2	8.9	10.1
57.5°	8.2	8.2	8.9	9.9	8.9	8.2	8.2	8.2	8.2	8.4	8.8
55°	9.1	9.6	9.9	9.9	9.9	9.6	9.1	8.6	8.2	8.4	8.5
52.5°	10.4	10.1	9.9	9.9	9.9	10.1	10.4	10.4	10.2	9.9	9.8
50°	12.0	11.6	11.5	11.5	11.5	11.6	12.0	12.4	12.5	12.3	11.9
47.5°	15.8	15.1	14.7	14.8	14.7	15.1	15.8	16.1	16.3	15.9	14.9
45°	25.9	26.0	26.0	26.3	26.0	26.0	25.9	25.3	33.4	34.1	22.2
42.5°	61.0	52.7	45.5	46.0	45.5	52.7	61.0	63.5	92.6	105.4	102.0
40°	156.2	116.9	77.7	65.8	77.7	116.9	156.2	173.3	172.1	219.9	220.5
37.5°	160.8	164.1	193.1	259.8	193.1	164.1	160.8	178.1	175.6	147.4	172.1
35°	224.8	228.3	220.3	215.4	220.3	228.3	224.8	220.3	205.7	171.9	201.6
32.5°	478.1	499.3	496.7	483.5	496.7	499.3	478.1	470.7	433.5	399.7	390.6
30°	1029.8	1083.6	1077.8	1088.7	1077.8	1083.6	1029.8	985.8	868.1	820.0	742.5
27.5°	1848.1	1914.6	1926.8	1912.6	1926.8	1914.6	1848.1	1787.3	1634.0	1527.5	1305.2
25°	3668.6	3773.8	3735.4	3685.4	3735.4	3773.8	3668.6	3291.0	2728.9	2579.8	2287.8
22.5°	9303.7	9720.3	9677.4	9326.1	9677.4	9720.3	9303.7	7560.7	6069.8	4820.9	3951.7
20°	25561.0	28311.4	29508.4	27886.2	29508.4	28311.4	25561.0	19232.6	15659.5	10400.4	7879.1
17.5°	54103.3	62483.5	68442.0	70928.4	68442.0	62483.5	54103.3	43270.5	33545.6	23357.9	15018.3
15°	88499.1	101113.9	108450.4	107464.8	108450.4	101113.9	88499.1	73227.8	56894.1	41370.3	25470.1
12.5°	127257.4	142209.0	154599.9	154862.5	154599.9	142209.0	127257.4	107051.9	82633.8	59523.8	38563.3
10°	164746.5	185497.9	202410.0	205687.3	202410.0	185497.9	164746.5	136511.9	109371.9	79199.5	51025.1
7.5°	192871.9	224683.4	245912.9	253691.9	245912.9	224683.4	192871.9	162212.1	128031.3	94048.5	63191.7
5°	220666.4	253999.9	275631.4	279468.9	275631.4	253999.9	220666.4	176936.2	140149.6	105248.7	70986.5
2.5°	239413.3	273037.8	291967.3	305097.3	291967.3	273037.8	239413.3	191629.4	150614.5	112716.4	76569.9
0°	250394.5	277791.5	309113.9	323667.2	309113.9	277791.5	250394.5	198657.0	155876.3	117586.8	79769.3
-2.5°	242091.8	272912.8	290845.4	307383.1	290845.4	272912.8	242091.8	195515.9	152405.3	115047.0	77543.4
-5°	214594.0	248113.5	263956.1	266023.3	263956.1	248113.5	214594.0	174667.5	140000.7	106411.6	71795.8
-7.5°	175348.6	206557.8	221768.4	230165.2	221768.4	206557.8	175348.6	146647.1	119638.8	90437.8	61043.5
-10°	141946.3	160159.6	170399.1	171073.4	170399.1	160159.6	141946.3	120975.7	98183.1	73115.3	47867.2
-12.5°	109590.1	121806.8	127862.9	127641.5	127862.9	121806.8	109590.1	93508.8	72806.1	53895.4	36437.2
-15°	80419.1	89910.3	95373.0	97992.3	95373.0	89910.3	80419.1	66980.7	51719.6	36894.6	24375.8
-17.5°	56762.4	64302.4	69776.0	71987.4	69776.0	64302.4	56762.4	46035.6	35956.5	24861.0	16806.0
-20°	38696.8	43864.2	47415.5	48923.0	47415.5	43864.2	38696.8	31465.9	24624.4	17432.7	12132.3



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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°	25489.1	28953.3	31388.2	31257.5	31388.2	28953.3	25489.1	21193.1	16436.8	12195.9	8857.8
-25°	16248.9	18153.7	19404.4	19505.7	19404.4	18153.7	16248.9	13588.4	10668.9	8783.4	7005.1
-27.5°	10754.6	11592.0	12096.7	12184.3	12096.7	11592.0	10754.6	9438.1	7938.2	7026.6	6085.0
-30°	8139.8	8525.1	8813.6	8801.5	8813.6	8525.1	8139.8	7487.9	6798.3	6154.1	5544.8
-32.5°	6766.9	6956.5	7082.9	7184.9	7082.9	6956.5	6766.9	6410.5	5991.7	5583.6	5194.0
-35°	5917.7	6014.3	6084.7	6148.9	6084.7	6014.3	5917.7	5737.3	5474.3	5198.3	4923.5
-37.5°	5435.7	5502.5	5546.8	5561.8	5546.8	5502.5	5435.7	5319.2	5116.8	4909.4	4668.4
-40°	5059.2	5096.9	5119.3	5132.6	5119.3	5096.9	5059.2	4993.5	4821.7	4630.4	4361.6
-42.5°	4776.8	4828.4	4855.1	4854.6	4855.1	4828.4	4776.8	4704.0	4499.5	4233.5	3864.0
-45°	4402.4	4533.0	4612.2	4645.8	4612.2	4533.0	4402.4	4221.7	3906.5	3517.2	3082.3
-47.5°	3540.3	3788.3	3962.3	4053.8	3962.3	3788.3	3540.3	3249.4	2894.3	2504.8	2123.2
-50°	2306.0	2388.9	2423.8	2409.2	2423.8	2388.9	2306.0	2220.0	2124.3	2010.8	1899.6
-52.5°	2003.2	2032.9	2050.9	2058.9	2050.9	2032.9	2003.2	1968.3	1921.4	1841.4	1758.6
-55°	1829.2	1862.2	1883.5	1894.5	1883.5	1862.2	1829.2	1789.7	1742.9	1659.1	1571.3
-57.5°	1582.5	1609.2	1625.5	1633.0	1625.5	1609.2	1582.5	1548.9	1508.6	1437.0	1360.1
-60°	1329.2	1351.1	1365.5	1373.2	1365.5	1351.1	1329.2	1302.3	1270.6	1218.6	1158.8
-62.5°	1100.8	1117.0	1131.2	1141.3	1131.2	1117.0	1100.8	1079.6	1053.3	1010.5	957.7
-65°	875.6	890.0	900.3	906.1	900.3	890.0	875.6	856.8	833.7	798.9	754.1
-67.5°	658.0	669.7	679.5	685.8	679.5	669.7	658.0	642.9	624.3	598.2	564.4
-70°	458.9	467.5	475.9	481.8	475.9	467.5	458.9	447.5	433.3	414.6	389.8
-72.5°	276.3	281.7	284.2	284.5	284.2	281.7	276.3	268.8	259.5	246.9	229.0
-75°	123.3	123.6	126.2	128.3	126.2	123.6	123.3	122.1	119.9	116.1	108.6
-77.5°	59.4	60.3	61.5	62.5	61.5	60.3	59.4	58.2	56.8	55.0	52.2
-80°	37.0	37.6	37.8	37.8	37.8	37.6	37.0	36.3	35.5	34.6	33.6
-82.5°	25.6	26.2	26.3	26.3	26.3	26.2	25.6	25.1	24.5	23.8	23.1
-85°	16.3	16.4	16.4	16.4	16.4	16.4	16.3	16.3	16.2	16.1	15.6
-87.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.4	11.4	11.4	11.3
-90°	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.2	1.6	1.6



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	8.2	8.2	8.2	7.8	7.4	7.0	6.6	6.6	6.6	6.6	6.6
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.9	1.9	1.8
80°	1.6	1.6	1.6	1.9	2.0	2.1	2.1	2.4	2.6	2.9	3.0
77.5°	2.2	2.4	2.6	2.8	3.1	3.3	3.5	3.7	3.9	4.1	4.1
75°	3.6	3.9	4.2	4.7	4.9	4.8	4.7	4.6	4.6	4.8	4.8
72.5°	7.6	7.5	7.7	8.3	8.4	8.7	8.7	8.2	7.2	5.9	4.9
70°	12.1	12.8	14.1	15.8	16.9	17.3	16.9	15.5	13.3	11.7	9.3
67.5°	15.1	16.4	18.8	21.8	23.8	25.3	26.5	26.8	25.6	23.0	16.6
65°	16.0	17.6	19.9	22.2	25.1	28.6	33.7	36.3	36.5	34.7	26.8
62.5°	14.2	16.1	18.0	20.2	22.9	26.7	32.6	37.8	42.9	44.2	35.9
60°	11.6	13.3	14.7	16.6	19.1	24.1	30.6	36.8	42.7	43.0	40.4
57.5°	9.4	10.6	12.1	13.4	14.5	19.0	26.0	34.6	41.7	40.4	38.9
55°	8.3	9.1	10.5	12.0	13.4	16.1	20.1	26.4	34.2	36.8	35.5
52.5°	9.8	9.9	10.3	11.0	12.4	14.2	16.6	21.0	24.9	28.5	30.8
50°	11.4	11.4	11.3	11.4	12.3	13.2	14.8	17.2	19.9	22.8	25.2
47.5°	14.7	14.7	13.4	13.1	15.0	14.3	14.9	16.0	18.6	19.3	21.8
45°	24.6	24.3	19.9	21.0	22.8	22.7	18.8	20.4	20.7	20.9	19.7
42.5°	79.8	55.3	42.1	38.0	36.0	35.8	33.6	31.2	29.0	25.8	25.9
40°	152.9	130.4	100.5	67.8	56.5	52.4	54.2	47.3	42.6	37.0	38.5
37.5°	167.4	118.8	137.5	126.9	92.6	86.3	88.3	75.6	59.0	69.0	67.3
35°	180.7	168.3	188.2	186.4	150.2	172.3	152.0	122.8	108.4	123.9	111.6
32.5°	339.6	350.3	332.1	313.4	316.2	312.8	277.0	207.8	209.8	208.7	183.6
30°	664.7	646.9	592.5	561.6	571.7	519.0	450.0	437.4	385.1	315.9	275.6
27.5°	1250.7	1074.4	985.6	1003.2	927.2	819.0	784.2	761.3	622.0	492.7	393.1
25°	2150.8	1864.6	1715.7	1638.3	1457.7	1303.6	1241.7	1156.8	977.4	721.0	547.1
22.5°	3416.7	3098.4	2802.6	2454.2	2211.4	2018.1	1808.6	1606.9	1394.5	1050.2	780.6
20°	5505.1	4681.8	4125.3	3547.8	3099.3	2806.9	2455.8	2111.0	1818.4	1465.5	1049.2
17.5°	9711.9	6875.6	5482.6	4629.6	4034.0	3625.5	3068.1	2559.9	2224.8	1907.8	1336.8
15°	14981.4	9800.7	7074.7	5771.8	4872.8	4115.6	3545.9	2960.9	2615.1	2312.4	1683.5
12.5°	22763.6	13448.5	8548.6	6600.0	5382.1	4552.2	3949.7	3379.7	2931.2	2521.2	1930.7
10°	29853.1	17743.1	10781.8	7543.5	5935.1	4941.2	4209.6	3540.6	3017.2	2631.6	2136.8
7.5°	38285.5	22223.2	12997.5	8363.5	6407.0	5148.1	4255.3	3562.5	3068.2	2710.0	2303.2
5°	43143.0	25463.8	14519.7	9007.5	6805.9	5340.7	4273.6	3523.5	3088.5	2761.0	2431.5
2.5°	45950.2	27396.3	15397.9	9458.2	7098.6	5529.9	4322.4	3529.3	3113.4	2794.7	2480.8
0°	47569.5	27437.3	15581.9	9535.0	7161.9	5727.9	4423.8	3588.4	3134.5	2815.4	2498.0
-2.5°	46013.3	27441.6	15344.7	9378.4	7108.5	5702.5	4478.8	3652.2	3184.9	2827.3	2491.3
-5°	42921.9	25247.1	14306.6	8905.6	6779.6	5447.9	4384.3	3627.6	3172.5	2810.1	2455.7
-7.5°	37334.2	21845.5	12696.9	8234.4	6312.2	5089.6	4181.6	3501.0	3053.7	2713.7	2343.9
-10°	29212.1	17273.1	10422.2	7259.9	5712.5	4709.8	3945.4	3339.8	2919.8	2606.6	2211.0
-12.5°	22139.0	13042.3	8067.2	6098.5	5028.3	4285.8	3690.6	3166.0	2772.7	2491.1	2061.3
-15°	14860.9	9716.3	6887.5	5385.9	4474.4	3911.6	3472.8	3056.6	2719.4	2403.1	1898.1
-17.5°	11164.7	7441.3	5761.1	4838.1	4142.8	3652.7	3326.4	3001.8	2690.5	2333.0	1746.7
-20°	8244.2	6422.2	5237.6	4464.5	3917.1	3528.2	3221.4	2953.5	2644.4	2161.6	1563.0



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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°	6970.7	5807.8	4882.1	4191.7	3751.2	3422.5	3146.4	2891.5	2578.0	1935.3	1359.9
-25°	6078.5	5274.8	4612.3	4137.8	3664.2	3301.6	3072.6	2808.3	2322.7	1680.9	1170.0
-27.5°	5446.0	4875.4	4546.7	4119.1	3676.6	3271.6	2988.2	2677.6	2032.6	1446.4	1150.7
-30°	5056.4	4737.4	4446.8	4117.4	3692.1	3289.1	2926.8	2338.2	1736.4	1247.1	1136.6
-32.5°	4855.3	4572.6	4302.6	4030.1	3648.8	3235.2	2620.9	1974.2	1403.5	1224.0	1111.7
-35°	4649.0	4354.2	4081.9	3805.8	3506.8	2865.2	2211.0	1586.0	1307.5	1190.1	1078.4
-37.5°	4386.7	4072.4	3795.1	3478.1	2955.8	2349.7	1708.6	1404.6	1267.5	1146.3	1025.9
-40°	4049.6	3753.4	3313.9	2852.5	2302.8	1716.5	1492.6	1356.3	1227.7	1088.1	962.0
-42.5°	3473.7	3071.9	2620.2	2110.8	1689.3	1559.3	1433.1	1311.0	1175.0	1027.3	895.5
-45°	2661.8	2244.1	1848.1	1724.0	1599.6	1488.3	1381.6	1244.8	1100.1	959.2	827.0
-47.5°	1955.7	1839.3	1726.7	1627.9	1525.1	1415.4	1286.1	1154.5	1013.9	882.7	771.0
-50°	1799.7	1711.2	1624.7	1533.3	1411.6	1289.4	1168.2	1046.9	923.8	814.5	709.3
-52.5°	1670.5	1573.3	1473.8	1371.4	1264.1	1151.2	1039.8	943.8	842.6	738.6	641.1
-55°	1480.3	1390.0	1298.9	1205.5	1113.6	1024.7	935.5	843.5	748.7	653.7	564.0
-57.5°	1281.6	1204.3	1130.3	1057.9	987.8	902.7	813.8	727.9	645.0	559.8	481.3
-60°	1096.6	1033.3	967.7	900.5	832.5	758.8	681.7	606.2	532.8	470.0	407.7
-62.5°	901.4	842.2	786.9	730.5	672.6	611.5	548.7	493.4	439.8	385.7	326.3
-65°	706.3	655.9	608.5	567.4	525.8	483.3	435.4	386.6	338.4	291.7	239.5
-67.5°	529.4	493.5	459.8	425.6	388.5	349.5	308.4	268.3	233.9	200.2	159.5
-70°	362.5	333.0	303.3	273.4	246.0	220.3	194.3	167.2	139.0	117.1	95.2
-72.5°	209.8	189.4	169.6	150.9	131.5	118.4	105.9	91.7	76.3	59.6	47.3
-75°	100.5	91.7	82.9	74.9	65.9	55.8	50.3	46.5	42.6	38.8	35.0
-77.5°	49.4	46.6	44.0	42.0	39.7	37.2	34.5	31.9	30.3	28.7	27.2
-80°	32.5	31.3	30.1	29.0	27.9	26.8	25.7	24.6	23.5	22.5	21.5
-82.5°	22.3	21.5	20.7	20.2	19.7	19.1	18.5	17.9	17.2	16.5	15.8
-85°	15.1	14.6	14.2	14.0	13.7	13.4	13.0	12.8	12.5	12.2	11.9
-87.5°	11.3	11.2	11.2	10.7	10.3	9.8	9.3	9.2	9.1	9.0	8.9
-90°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6





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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	6.2	5.8	5.3	4.9	4.9	4.9	4.9
87.5°	1.6	1.6	1.6	1.6	2.0	2.5	2.9	3.3	3.3	3.3	3.3
85°	1.8	1.8	1.9	1.9	2.1	2.5	2.9	3.3	3.3	3.3	3.3
82.5°	2.1	2.4	2.7	2.8	2.8	2.9	3.1	3.3	3.4	3.3	3.3
80°	2.9	3.0	3.1	3.3	3.3	3.3	3.2	3.3	3.5	3.6	3.5
77.5°	3.7	3.4	3.3	3.3	3.3	3.3	3.3	3.4	3.7	3.9	3.9
75°	4.4	3.8	3.5	3.4	3.4	3.3	3.3	3.4	3.8	4.2	4.3
72.5°	4.7	4.4	3.8	3.5	3.7	3.8	3.6	3.5	3.9	4.2	4.6
70°	7.0	5.3	4.6	4.3	4.2	4.3	4.2	4.0	3.9	4.3	4.7
67.5°	10.8	8.2	6.2	5.1	4.7	4.6	4.8	4.5	4.3	4.3	4.7
65°	19.3	12.9	8.0	6.4	5.3	4.8	4.9	4.9	4.7	4.5	4.7
62.5°	27.5	19.2	13.1	8.5	6.0	5.1	4.9	5.1	5.0	4.7	4.8
60°	35.9	26.8	18.7	13.2	8.3	5.3	5.1	5.4	5.3	4.9	4.9
57.5°	36.2	33.3	26.3	18.5	12.3	7.2	5.3	5.6	5.6	5.2	4.9
55°	34.5	32.8	31.4	25.1	16.9	10.6	6.6	6.0	6.0	5.7	5.0
52.5°	30.7	32.3	32.6	29.8	22.6	14.4	9.7	6.4	6.5	6.1	5.4
50°	26.6	30.9	33.4	32.1	27.6	19.7	12.5	8.7	7.0	6.6	5.9
47.5°	24.9	30.0	33.5	34.3	30.6	25.0	16.7	10.9	7.5	7.1	6.4
45°	25.2	29.4	33.8	35.5	33.9	28.6	21.4	12.9	9.3	7.7	6.8
42.5°	27.2	30.9	33.8	37.5	36.2	31.7	25.8	16.6	10.9	8.1	7.3
40°	36.9	34.4	35.2	39.2	38.8	34.6	28.6	20.5	12.3	8.9	7.7
37.5°	50.0	43.8	39.8	44.9	42.9	37.6	31.2	24.2	14.1	10.0	8.1
35°	85.3	58.8	58.4	58.6	51.0	41.2	33.6	27.1	17.5	11.0	8.5
32.5°	130.1	101.3	98.7	82.1	62.1	45.2	36.6	29.8	20.8	11.9	8.9
30°	216.7	194.8	154.2	112.4	79.5	55.8	40.9	32.6	24.1	12.7	9.4
27.5°	359.1	310.1	229.7	163.7	108.8	69.5	47.0	35.5	27.4	14.2	10.1
25°	506.2	443.8	341.5	229.5	142.6	97.0	53.8	38.5	30.0	16.8	10.7
22.5°	648.7	582.8	467.9	304.2	192.1	132.4	68.8	43.9	32.4	19.3	11.2
20°	787.5	725.1	597.1	372.3	250.1	175.7	94.6	49.7	34.7	21.7	11.7
17.5°	940.7	834.6	669.8	452.2	307.7	219.3	124.4	55.7	37.0	23.9	12.1
15°	1128.9	899.5	739.8	523.1	359.0	262.9	157.2	62.0	39.2	26.0	12.6
12.5°	1297.5	959.4	808.7	585.4	404.4	305.9	191.9	68.2	41.3	28.4	13.3
10°	1455.7	1014.5	875.2	639.1	444.5	348.0	227.3	75.2	44.7	31.0	14.0
7.5°	1600.2	1064.9	937.9	684.5	477.3	376.9	249.2	83.8	48.2	33.5	14.6
5°	1718.1	1104.9	981.5	715.4	493.5	390.9	265.2	92.1	51.6	35.8	15.3
2.5°	1773.5	1132.5	1008.4	738.6	507.1	401.8	276.9	99.9	54.7	37.8	15.9
0°	1802.4	1156.1	1026.2	754.8	518.0	409.5	284.5	106.9	57.6	39.5	16.4
-2.5°	1806.6	1161.3	1030.7	771.3	535.3	420.7	294.6	125.9	72.4	48.5	21.5
-5°	1783.9	1162.0	1027.4	780.7	549.1	428.8	301.2	143.7	86.5	57.1	26.5
-7.5°	1706.5	1144.5	1009.8	781.4	559.0	433.8	305.2	160.1	99.8	64.8	31.1
-10°	1597.3	1113.8	975.8	768.2	568.3	440.8	308.4	174.8	111.9	71.7	35.2
-12.5°	1463.8	1079.3	941.0	752.1	575.3	450.3	318.8	189.7	122.8	77.6	38.8
-15°	1306.8	1041.1	907.2	734.6	579.4	458.0	326.0	202.9	132.6	82.8	41.7
-17.5°	1134.3	999.5	876.4	716.8	580.8	464.2	330.3	212.9	140.8	87.4	44.5
-20°	1096.0	974.8	849.3	700.0	579.8	469.2	331.6	219.6	147.3	90.5	46.8



REPORT NUMBER: P731482 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1081.4	963.7	831.7	692.3	578.3	473.3	330.0	222.6	151.9	91.9	48.1
-25°	1066.2	950.2	812.0	681.5	578.1	467.7	329.0	221.7	154.4	91.7	48.4
-27.5°	1048.3	931.4	787.3	664.4	566.4	459.0	326.9	223.8	154.6	89.6	47.4
-30°	1028.1	899.4	762.3	642.9	550.5	435.6	319.5	223.4	151.8	87.6	45.3
-32.5°	999.5	862.5	731.2	622.1	524.2	410.1	303.0	220.2	146.5	85.0	43.8
-35°	950.8	819.9	693.7	596.2	493.5	386.0	285.5	214.1	138.7	80.6	41.9
-37.5°	896.8	771.5	660.7	563.9	461.5	359.6	272.0	200.5	128.2	74.5	39.0
-40°	840.0	724.4	624.3	527.7	429.5	330.9	255.6	183.5	118.5	66.5	35.1
-42.5°	779.9	680.1	584.1	490.4	395.9	309.5	236.2	164.0	106.0	59.7	30.2
-45°	726.9	632.0	540.5	450.0	361.4	285.2	211.7	142.9	91.5	52.9	26.2
-47.5°	669.9	581.3	493.1	406.2	330.5	256.8	184.5	124.4	75.3	44.8	24.5
-50°	611.9	526.4	441.7	365.0	295.0	223.1	156.1	103.8	64.1	35.1	22.4
-52.5°	550.3	466.8	391.7	322.7	253.4	186.3	130.2	82.1	51.9	29.9	20.0
-55°	480.7	409.0	342.0	274.0	207.9	152.2	102.0	66.9	38.7	26.6	17.5
-57.5°	414.8	351.1	284.4	220.0	164.9	116.9	79.3	50.7	32.4	23.0	16.6
-60°	346.2	282.6	221.1	169.4	122.7	86.3	59.5	37.4	28.0	19.8	15.6
-62.5°	267.8	212.0	164.0	119.6	87.3	62.2	41.3	32.1	23.4	18.5	14.6
-65°	192.8	148.2	107.6	82.6	59.0	41.7	34.7	26.4	21.1	17.1	13.5
-67.5°	120.1	94.8	71.3	49.8	40.4	34.1	27.7	23.2	19.2	15.6	12.8
-70°	73.2	52.6	43.1	37.7	32.1	27.0	24.2	20.9	17.3	14.5	11.9
-72.5°	42.6	38.0	33.4	29.0	26.2	23.7	21.3	18.7	15.9	13.4	11.0
-75°	31.1	28.9	26.8	24.6	22.3	20.3	18.7	16.9	14.4	12.2	10.1
-77.5°	25.5	23.7	21.9	20.3	18.9	17.5	16.3	15.0	12.9	10.9	9.1
-80°	20.2	18.9	17.8	16.7	15.7	14.8	14.0	13.1	11.3	9.6	8.1
-82.5°	15.0	14.4	13.9	13.4	12.9	12.3	11.8	11.1	9.7	8.3	7.1
-85°	11.6	11.3	11.0	10.6	10.3	9.9	9.5	9.1	8.1	7.2	6.4
-87.5°	8.8	8.7	8.6	8.5	8.2	7.8	7.4	7.0	6.5	6.0	5.7
-90°	1.6	1.6	1.6	1.6	2.0	2.5	2.9	3.3	3.3	3.3	3.3



REPORT NUMBER: P731482 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.9	4.9	4.9	4.9	4.9	4.1	3.3
87.5°	3.3	3.4	3.4	3.5	3.4	3.4	3.3
85°	3.3	3.5	3.6	3.6	3.6	3.4	3.3
82.5°	3.3	3.6	3.7	3.8	3.7	3.5	3.3
80°	3.4	3.7	3.9	3.9	3.9	3.6	3.3
77.5°	3.8	3.8	4.0	4.1	4.0	3.6	3.3
75°	4.2	4.1	4.2	4.3	4.1	3.7	3.3
72.5°	4.6	4.3	4.3	4.4	4.3	3.8	3.3
70°	4.9	4.6	4.4	4.6	4.4	3.8	3.3
67.5°	4.9	4.8	4.6	4.6	4.5	3.9	3.3
65°	4.9	4.9	4.7	4.7	4.7	4.0	3.3
62.5°	4.9	4.9	4.8	4.7	4.8	4.0	3.3
60°	4.9	4.9	4.9	4.8	4.9	4.1	3.3
57.5°	5.0	4.9	4.9	4.8	4.9	4.2	3.3
55°	5.1	4.9	4.9	4.8	4.9	4.2	3.3
52.5°	5.2	4.9	4.9	4.9	4.9	4.3	3.3
50°	5.4	5.1	4.9	4.9	4.9	4.3	3.3
47.5°	5.6	5.3	4.9	4.9	4.9	4.4	3.3
45°	6.0	5.4	4.9	4.9	4.9	4.4	3.3
42.5°	6.4	5.6	4.9	4.9	4.9	4.5	3.3
40°	6.7	5.9	5.0	4.9	4.9	4.5	3.3
37.5°	7.1	6.1	5.2	4.9	4.9	4.6	3.3
35°	7.4	6.4	5.3	4.9	4.9	4.6	3.3
32.5°	7.8	6.6	5.5	4.9	4.9	4.6	3.3
30°	8.1	6.9	5.7	4.9	4.9	4.7	3.3
27.5°	8.4	7.1	5.8	4.9	4.9	4.7	3.3
25°	8.7	7.4	6.0	4.9	4.9	4.8	3.3
22.5°	9.0	7.6	6.1	4.9	4.9	4.8	3.3
20°	9.2	7.7	6.2	4.9	4.9	4.8	3.3
17.5°	9.5	7.8	6.3	4.9	4.9	4.8	3.3
15°	9.8	7.9	6.4	4.9	4.9	4.8	3.3
12.5°	10.1	8.0	6.4	4.9	4.9	4.9	3.3
10°	10.4	8.1	6.5	4.9	4.9	4.9	3.3
7.5°	10.7	8.1	6.5	4.9	4.9	4.9	3.3
5°	11.0	8.2	6.6	4.9	4.9	4.9	3.3
2.5°	11.3	8.2	6.6	4.9	4.9	4.9	3.3
0°	11.5	8.2	6.6	4.9	4.9	4.9	3.3
-2.5°	13.5	8.9	6.9	5.1	5.0	4.9	3.3
-5°	15.3	9.6	7.2	5.3	5.0	4.9	3.3
-7.5°	17.1	10.3	7.4	5.5	5.1	4.9	3.3
-10°	18.7	10.9	7.7	5.7	5.2	4.9	3.3
-12.5°	20.1	11.4	7.9	5.9	5.3	4.9	3.3
-15°	21.2	11.9	8.1	6.1	5.3	4.9	3.3
-17.5°	22.1	12.3	8.3	6.3	5.4	4.8	3.3
-20°	22.9	12.6	8.5	6.5	5.4	4.8	3.3



REPORT NUMBER: P731482 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-3S-CV1

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	23.6	12.7	8.6	6.6	5.5	4.8	3.3
-25°	23.8	12.9	8.8	6.7	5.5	4.8	3.3
-27.5°	23.5	13.0	8.9	6.8	5.5	4.8	3.3
-30°	22.5	12.9	9.0	6.9	5.5	4.7	3.3
-32.5°	20.9	12.7	9.1	7.0	5.5	4.7	3.3
-35°	20.1	12.3	9.1	7.0	5.5	4.7	3.3
-37.5°	19.6	12.0	9.1	7.0	5.5	4.7	3.3
-40°	18.9	12.0	9.1	7.0	5.5	4.6	3.3
-42.5°	17.9	11.9	9.0	7.0	5.4	4.6	3.3
-45°	16.7	11.7	8.9	6.9	5.4	4.6	3.3
-47.5°	15.2	11.5	8.8	6.8	5.3	4.6	3.3
-50°	14.7	11.2	8.6	6.7	5.3	4.5	3.3
-52.5°	14.2	10.8	8.5	6.6	5.2	4.5	3.3
-55°	13.6	10.5	8.3	6.4	5.1	4.5	3.3
-57.5°	12.9	10.2	8.1	6.3	5.0	4.5	3.3
-60°	12.2	9.8	7.8	6.1	4.9	4.4	3.3
-62.5°	11.6	9.4	7.5	5.9	4.9	4.4	3.3
-65°	11.0	9.0	7.2	5.7	4.9	4.4	3.3
-67.5°	10.4	8.5	6.9	5.5	4.9	4.4	3.3
-70°	9.7	8.0	6.5	5.3	4.9	4.3	3.3
-72.5°	9.0	7.5	6.2	5.2	4.9	4.3	3.3
-75°	8.2	6.9	5.8	5.2	4.9	4.3	3.3
-77.5°	7.5	6.3	5.6	5.2	4.9	4.3	3.3
-80°	6.7	6.0	5.5	5.1	4.9	4.2	3.3
-82.5°	6.2	5.7	5.3	5.1	4.9	4.2	3.3
-85°	5.8	5.4	5.2	5.0	4.9	4.2	3.3
-87.5°	5.3	5.2	5.0	5.0	4.9	4.1	3.3
-90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3

(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

