

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: P731490 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-5S-CV1**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731490 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-34)  
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-CV1  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

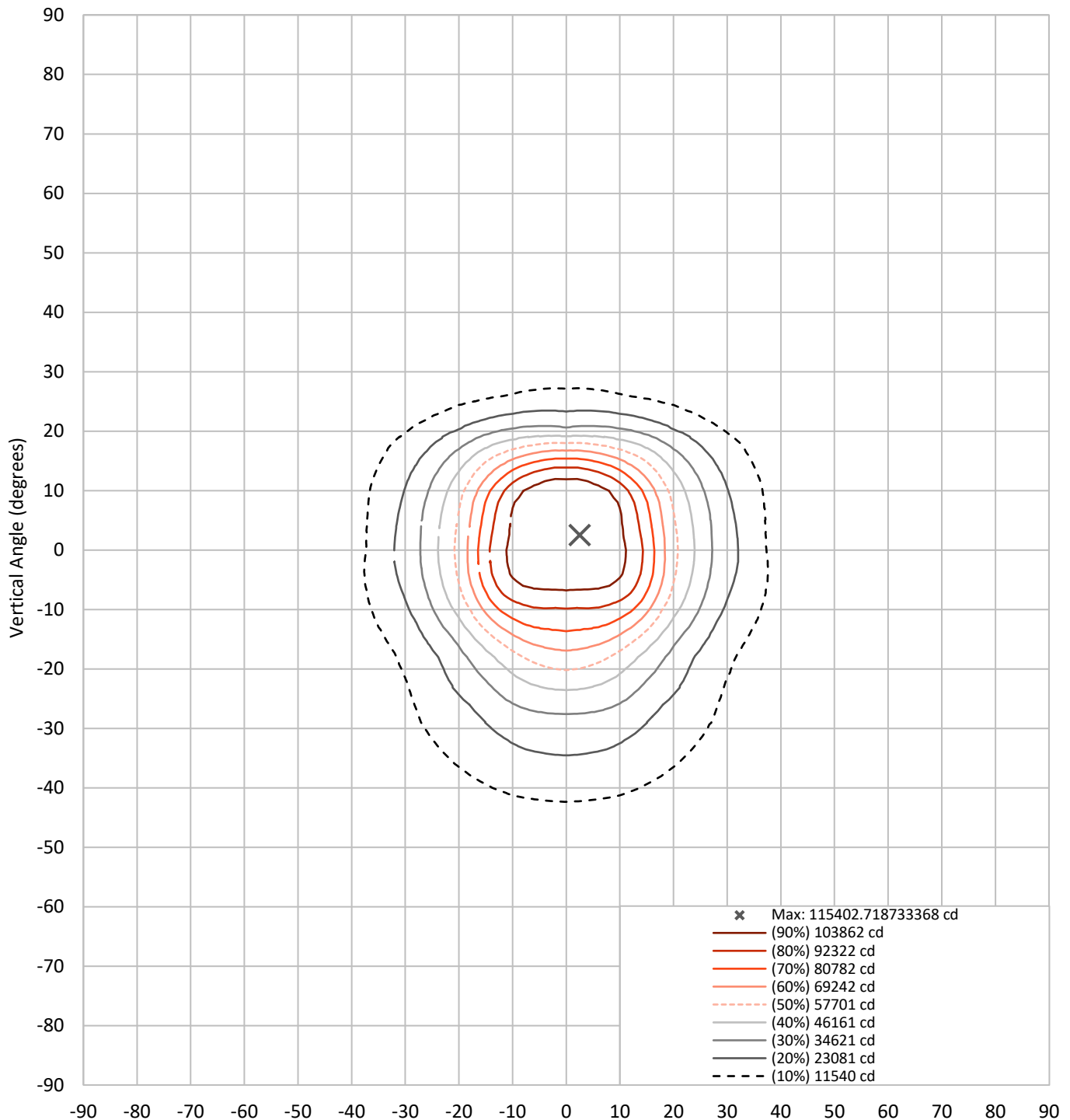
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 4V
Luminaire Lumens:	61611.6 lumens	Max Intensity:	115402.7 candela
Efficiency:	N/A	Max Intensity Angle:	2.5°H x 2.5°V
Efficacy:	110.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	41.4°H x 38°V	Field Angle (10%):	74.2°H x 69.6°V
Beam Lumens:	33948.4 lumens	Field Lumens:	57297.7 lumens
Beam Efficiency:	55.1%	Field Efficiency:	93.0%

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





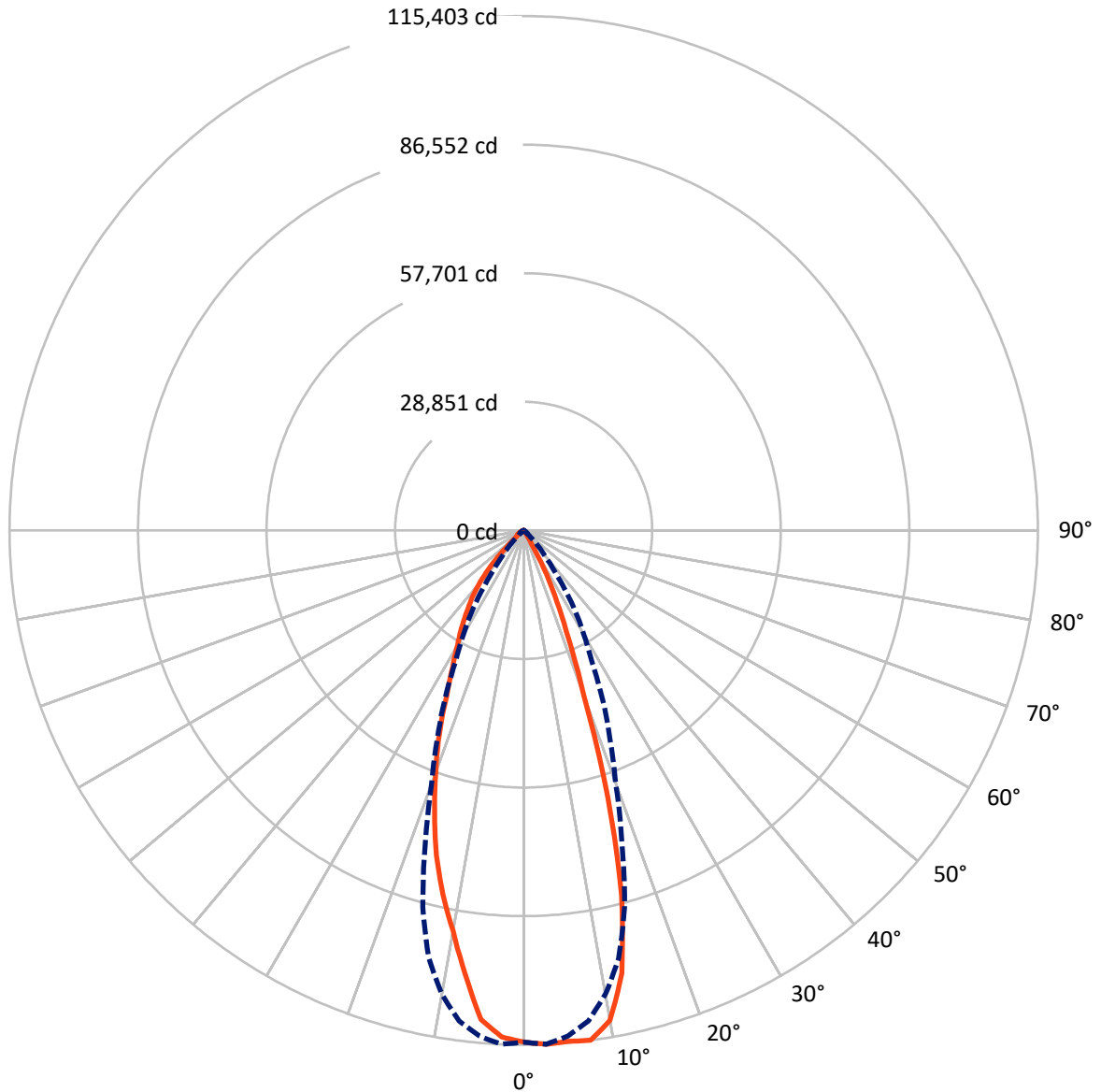
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### Lumen Table

90																
80	0.1	0.2		0.4		0.4		0.3		0.4		0.4		0.2		0.1
70																
60	0.1	0.1	0.1	0.3	0.5	0.3	0.2	0.3	0.3	0.2	0.3	0.5	0.3	0.1	0.1	0.1
50		0.1	0.2	0.6	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.6	0.2	0.1	
40	0.1	0.1	0.3	0.4	0.6	0.8	1.0	0.9	0.9	1.0	0.8	0.6	0.4	0.3	0.1	0.1
30		0.2	0.6	1.9	4.0	8.7	20.5	29.3	29.3	20.5	8.7	4.0	1.9	0.6	0.2	
20	0.2	0.3	3.3	12.3	67.2	206.3	415.0	558.4	558.4	415.0	206.3	67.2	12.3	3.3	0.3	0.2
10		0.9	8.0	44.4	276.8	788.1	1633.8	2353.0	2353.0	1633.8	788.1	276.8	44.4	8.0	0.9	
0	0.2	1.5	10.9	70.0	397.9	1133.8	2449.7	3387.5	3387.5	2449.7	1133.8	397.9	70.0	10.9	1.5	0.2
-10		1.9	11.6	73.3	400.8	1105.3	2414.1	3199.8	3199.8	2414.1	1105.3	400.8	73.3	11.6	1.9	
-20	0.3	2.2	11.2	49.2	263.5	729.1	1550.9	2206.0	2206.0	1550.9	729.1	263.5	49.2	11.2	2.2	0.3
-30		2.2	10.6	27.4	155.3	446.5	867.9	1227.5	1227.5	867.9	446.5	155.3	27.4	10.6	2.2	
-40	0.3	1.7	8.6	20.4	62.4	246.1	480.3	657.3	657.3	480.3	246.1	62.4	20.4	8.6	1.7	0.3
-50		1.1	5.6	15.9	30.7	57.3	135.7	210.9	210.9	135.7	57.3	30.7	15.9	5.6	1.1	
-60	0.2	0.6	2.8	8.7	18.8	30.7	41.8	48.4	48.4	41.8	30.7	18.8	8.7	2.8	0.6	0.2
-70		0.2	1.0	3.0	6.5	11.0	16.2	19.1	19.1	16.2	11.0	6.5	3.0	1.0	0.2	
-80																
-90	0.1	0.6		2.2		5.2		6.9		5.2		2.2		0.6		0.1

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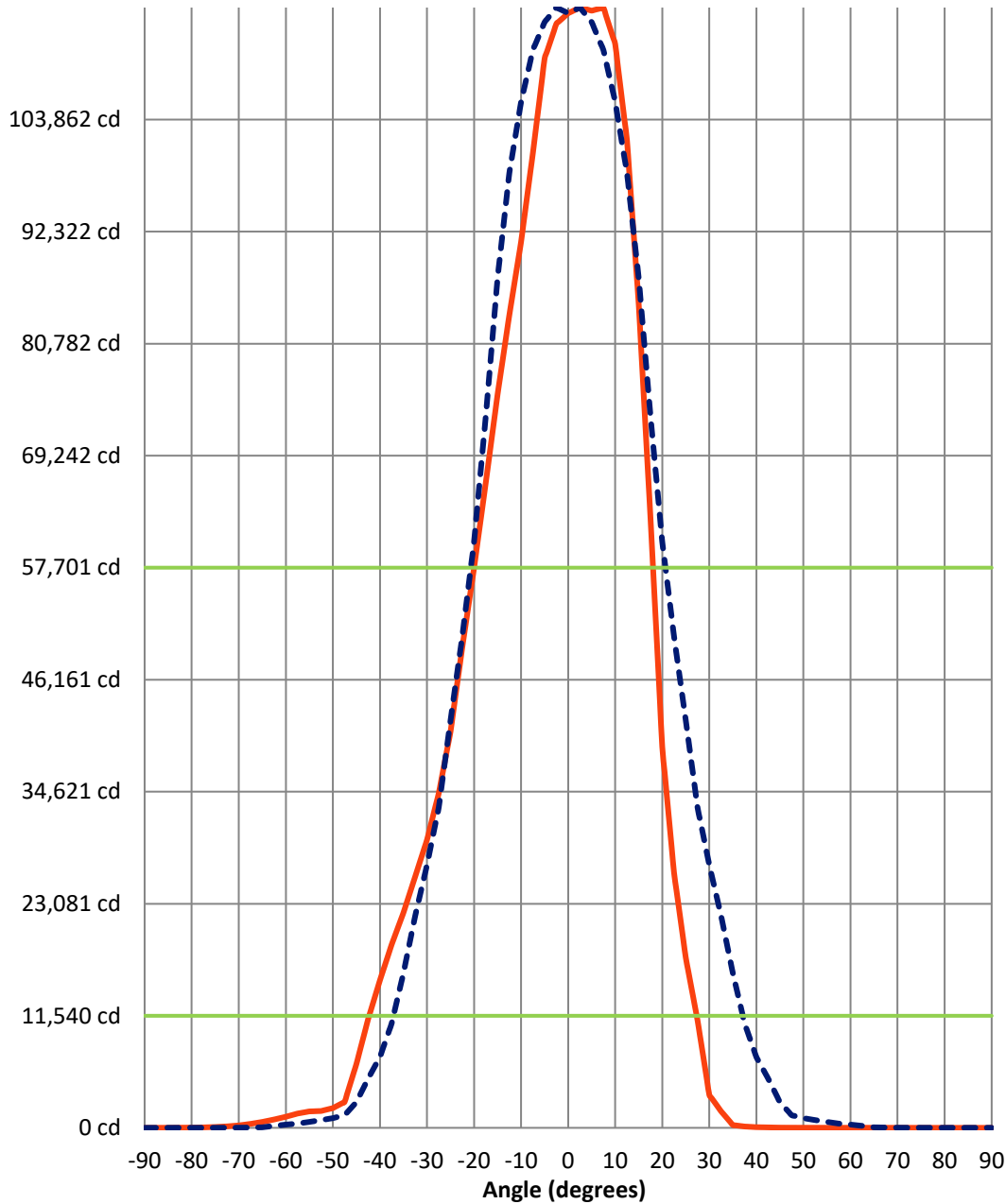
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 41.4°  
 V Angle: 38°  
 Lumens: 33948.4  
 Efficiency: 55.1%

**Field:**  
 H Angle: 74.2°  
 V Angle: 69.6°  
 Lumens: 57297.7  
 Efficiency: 93.0%

**Spill:**  
 Lumens: 4313.9  
 Efficiency: 7.0%

— Vertical Distribution through 2.5-Deg  
 - - - Horizontal Distribution through 2.5-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.5	4.1	3.7	3.3
85°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.5	4.1	3.7	3.3
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.5	4.1	3.9	3.7
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.6	4.4	4.4	4.4
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.7	4.7	4.8	4.9
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.8	4.9	4.9	4.9
72.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
70°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
67.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
65°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
62.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
60°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
57.5°	4.9	4.9	4.9	4.9	4.9	4.9	5.0	4.9	4.9	4.9	5.1
55°	4.9	4.9	4.9	4.9	4.9	4.9	5.1	5.0	4.9	5.0	5.3
52.5°	4.9	4.9	4.9	4.9	4.9	4.9	5.2	5.1	4.9	5.3	5.7
50°	4.9	4.9	4.9	4.9	4.9	5.1	5.4	5.1	5.0	5.8	6.5
47.5°	4.9	4.9	4.9	4.9	4.9	5.3	5.6	5.2	5.5	6.3	7.4
45°	4.9	4.9	4.9	4.9	4.9	5.4	5.6	5.3	6.0	6.9	8.1
42.5°	4.9	4.9	4.9	4.9	4.9	5.6	5.7	5.6	6.5	7.4	8.6
40°	4.9	4.9	4.9	4.9	5.0	5.9	5.8	6.0	7.0	7.9	9.1
37.5°	4.9	4.9	4.9	5.0	5.2	6.1	5.9	6.5	7.5	8.5	9.6
35°	4.9	4.9	4.9	5.0	5.3	6.2	6.0	6.9	7.9	9.1	10.2
32.5°	4.9	4.9	4.9	5.1	5.5	6.3	6.1	7.3	8.4	9.7	11.6
30°	4.9	4.9	4.9	5.2	5.7	6.4	6.4	7.6	8.8	10.4	13.2
27.5°	4.9	4.9	4.9	5.2	5.9	6.5	6.8	8.0	9.3	11.1	15.0
25°	4.9	4.9	4.9	5.3	6.1	6.5	7.0	8.3	9.9	12.4	17.1
22.5°	4.9	4.9	4.9	5.5	6.2	6.6	7.3	8.7	10.4	13.9	21.0
20°	4.9	4.9	4.9	5.6	6.3	6.6	7.6	9.0	11.0	15.6	25.2
17.5°	4.9	4.9	4.9	5.7	6.4	6.6	7.7	9.3	11.6	17.3	29.6
15°	4.9	4.9	4.9	5.8	6.5	6.6	7.9	9.5	12.2	19.0	34.2
12.5°	4.9	4.9	4.9	6.0	6.5	6.6	8.0	9.6	12.7	20.8	38.8
10°	4.9	4.9	4.9	6.1	6.6	6.6	8.1	9.7	13.2	22.7	43.2
7.5°	4.9	4.9	4.9	6.2	6.6	6.6	8.1	9.8	13.6	24.7	47.4
5°	4.9	4.9	4.9	6.4	6.6	6.6	8.2	9.9	14.1	26.5	51.3
2.5°	4.9	4.9	4.9	6.5	6.6	6.6	8.2	9.9	14.5	28.2	54.7
0°	4.9	4.9	4.9	6.6	6.6	6.6	8.2	9.9	14.8	29.7	57.7
-2.5°	4.9	4.9	5.0	6.6	6.6	6.8	8.6	11.7	19.8	38.7	72.0
-5°	4.9	4.9	5.0	6.6	6.6	6.9	9.0	13.4	24.7	47.3	85.4
-7.5°	4.9	4.9	5.1	6.6	6.6	7.1	9.4	15.0	29.1	55.2	97.7
-10°	4.9	4.9	5.2	6.5	6.6	7.3	9.7	16.4	33.0	62.2	108.5
-12.5°	4.9	4.9	5.3	6.5	6.6	7.4	10.0	17.5	36.2	68.3	118.9
-15°	4.9	4.9	5.3	6.5	6.6	7.5	10.2	18.3	39.2	74.2	127.7
-17.5°	4.9	4.9	5.4	6.5	6.6	7.5	10.3	19.7	42.1	78.8	134.2
-20°	4.9	4.9	5.4	6.5	6.6	7.6	10.8	21.3	44.1	81.7	138.0



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.9	4.9	5.5	6.4	6.6	7.6	11.6	22.5	45.0	83.0	138.9
-25°	4.9	4.9	5.5	6.4	6.6	7.7	12.2	23.1	45.0	82.6	136.7
-27.5°	4.9	4.9	5.5	6.4	6.6	7.9	12.5	23.2	43.7	81.0	135.8
-30°	4.9	4.9	5.5	6.4	6.6	7.9	12.6	22.6	43.0	79.5	132.6
-32.5°	4.9	4.9	5.5	6.4	6.7	7.8	12.3	22.4	42.3	76.4	126.8
-35°	4.9	4.9	5.5	6.5	6.8	7.6	12.0	22.1	40.7	71.7	118.4
-37.5°	4.9	4.9	5.5	6.5	6.8	7.5	11.8	21.2	38.3	65.3	107.5
-40°	4.9	4.9	5.5	6.6	6.8	7.5	11.4	19.9	34.9	60.5	96.9
-42.5°	4.9	4.9	5.4	6.6	6.9	7.6	10.7	18.0	32.2	54.9	85.0
-45°	4.9	4.9	5.4	6.6	6.9	7.6	9.9	16.3	29.5	48.4	72.7
-47.5°	4.9	4.9	5.3	6.6	6.9	7.5	8.8	15.0	26.1	41.4	64.6
-50°	4.9	4.9	5.3	6.5	6.8	7.5	8.6	13.4	21.9	36.5	55.9
-52.5°	4.9	4.9	5.2	6.3	6.8	7.4	8.5	11.6	18.9	31.0	46.7
-55°	4.9	4.9	5.1	6.2	6.7	7.3	8.3	9.7	16.3	25.0	39.7
-57.5°	4.9	4.9	5.0	6.0	6.7	7.2	8.1	9.4	13.5	21.0	32.1
-60°	4.9	4.9	4.9	5.9	6.6	7.1	7.9	9.1	11.0	17.3	25.1
-62.5°	4.9	4.9	4.9	5.7	6.4	6.9	7.6	8.7	10.4	13.3	20.4
-65°	4.9	4.9	4.9	5.6	6.3	6.7	7.3	8.2	9.6	11.7	15.4
-67.5°	4.9	4.9	4.9	5.4	6.1	6.5	7.0	7.8	8.8	10.5	12.8
-70°	4.9	4.9	4.9	5.3	6.0	6.4	6.6	7.4	8.3	9.3	11.1
-72.5°	4.9	4.9	4.9	5.2	5.9	6.3	6.6	7.0	7.9	8.7	9.6
-75°	4.9	4.9	4.9	5.2	5.7	6.2	6.6	6.8	7.4	8.1	8.9
-77.5°	4.9	4.9	4.9	5.2	5.6	6.2	6.6	6.8	7.1	7.6	8.3
-80°	4.9	4.9	4.9	5.1	5.5	6.0	6.6	6.7	6.9	7.2	7.7
-82.5°	4.9	4.9	4.9	5.1	5.3	5.7	6.2	6.4	6.6	6.8	7.0
-85°	4.9	4.9	4.9	5.0	5.2	5.4	5.8	5.9	6.1	6.2	6.3
-87.5°	4.9	4.9	4.9	5.0	5.0	5.2	5.3	5.4	5.5	5.6	5.6
-90°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.5	4.1	3.7	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°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	3.8	3.7	3.6	3.3	3.3	3.3	3.3	3.5	3.6	3.5	3.5
80°	4.4	4.2	3.8	3.4	3.4	3.7	4.1	4.6	4.5	4.2	4.0
77.5°	4.6	4.2	3.8	3.4	3.6	4.2	4.6	4.8	4.8	4.8	4.9
75°	4.6	4.2	4.1	4.1	4.4	4.7	4.9	5.2	5.5	5.5	5.3
72.5°	4.7	4.6	4.6	4.9	4.9	5.2	5.6	6.2	6.6	6.5	6.4
70°	4.8	4.9	4.9	4.9	5.0	5.6	6.4	7.3	7.8	8.1	9.0
67.5°	4.9	4.9	4.9	5.0	5.6	6.5	7.4	9.4	11.8	12.8	13.7
65°	4.9	4.9	5.1	5.7	6.5	7.8	9.9	12.7	17.6	19.9	20.9
62.5°	4.9	5.0	5.5	6.4	7.4	9.1	13.3	18.7	24.9	28.3	27.6
60°	4.9	5.1	6.2	7.5	8.7	12.4	17.9	24.2	32.1	37.7	33.8
57.5°	5.1	5.8	7.4	9.0	11.8	15.4	21.0	28.6	36.6	45.1	39.0
55°	5.7	7.1	8.7	11.0	14.0	16.7	22.4	29.4	38.3	43.7	38.4
52.5°	6.9	8.4	9.8	12.5	15.3	17.5	20.9	27.5	32.8	37.2	34.3
50°	7.9	9.0	10.7	13.6	16.2	17.6	17.3	22.4	26.8	28.7	29.1
47.5°	8.7	9.7	11.7	14.6	16.7	17.1	15.5	18.1	21.3	23.4	22.8
45°	9.3	10.8	13.0	15.5	17.0	16.4	16.2	15.2	19.3	21.1	21.4
42.5°	9.8	12.1	14.6	16.6	17.2	18.0	18.4	18.5	20.6	24.7	26.8
40°	10.8	13.2	16.5	18.3	18.5	21.4	24.3	26.5	28.0	33.6	37.6
37.5°	11.9	15.3	19.3	22.2	22.6	27.7	32.2	46.8	49.8	45.4	59.8
35°	12.8	17.6	24.3	31.3	35.3	36.6	56.8	76.5	85.0	83.2	95.3
32.5°	14.5	20.1	31.0	46.8	62.5	66.5	88.0	121.4	151.3	163.4	156.0
30°	17.4	26.3	41.6	66.5	102.0	141.0	147.1	184.3	244.6	293.9	367.6
27.5°	21.7	34.3	60.4	102.8	159.5	239.2	258.8	291.1	381.0	504.6	742.1
25°	26.6	54.6	82.0	151.0	256.0	349.5	386.4	447.2	551.4	951.3	1498.0
22.5°	37.5	81.8	126.3	206.5	368.5	465.1	531.7	633.9	881.6	1520.1	2584.3
20°	57.1	119.5	182.3	276.6	487.5	587.1	676.5	831.9	1385.2	2572.2	4301.9
17.5°	80.1	160.3	240.2	361.2	551.7	687.8	826.3	1035.0	1913.6	3799.3	6097.5
15°	105.8	203.3	294.6	434.3	607.9	754.3	947.6	1428.6	2752.4	5200.3	7746.8
12.5°	133.4	247.7	345.5	496.8	660.1	816.8	1047.1	1765.0	3626.8	6473.1	9441.3
10°	161.7	292.6	393.1	549.5	707.9	874.6	1137.1	2072.3	4243.3	6950.6	10253.0
7.5°	179.3	320.7	431.5	593.3	751.1	927.4	1217.0	2343.7	4679.6	7191.4	10587.4
5°	192.5	327.8	435.3	606.1	778.7	969.4	1279.3	2571.3	4950.7	7225.5	10690.6
2.5°	202.6	330.7	436.1	610.1	795.4	997.8	1300.6	2646.7	5075.0	7291.7	10762.0
0°	209.5	329.9	433.9	608.7	806.7	1019.5	1308.2	2660.9	5077.7	7334.4	10788.8
-2.5°	220.7	341.7	456.0	634.3	819.4	1024.1	1318.9	2735.8	5324.0	7796.2	11602.9
-5°	228.6	350.6	474.3	654.3	827.0	1021.8	1317.1	2739.8	5354.9	7903.3	11635.9
-7.5°	233.6	356.4	488.2	666.1	820.4	996.1	1272.1	2518.4	4883.8	7418.6	10845.3
-10°	236.5	363.9	497.9	659.2	795.9	953.9	1208.2	2244.6	4320.3	6795.1	9890.0
-12.5°	242.0	372.7	504.4	651.1	773.1	907.5	1133.0	1926.1	3680.4	6033.0	8782.8
-15°	243.6	378.4	507.6	643.3	754.1	857.5	1046.9	1569.3	3039.1	5363.9	7686.8
-17.5°	241.5	381.1	507.8	636.8	740.5	804.7	958.9	1260.8	2561.0	4714.4	6857.8
-20°	235.4	380.9	505.1	632.9	732.1	787.4	929.9	1193.7	2150.1	3953.5	6074.6



REPORT NUMBER: P731490 (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°	225.2	377.7	500.2	626.2	731.3	803.4	905.3	1109.0	1634.6	3074.8	5262.7
-25°	218.6	363.4	492.6	609.0	726.4	820.6	878.8	1018.5	1311.8	2403.7	4168.6
-27.5°	215.4	344.3	469.7	584.2	713.6	830.4	883.7	985.6	1193.1	1666.6	3016.0
-30°	208.1	312.3	442.1	553.0	683.8	810.7	903.3	951.5	1085.6	1361.5	2155.3
-32.5°	193.6	279.4	405.7	519.2	642.4	781.5	906.8	954.3	1041.0	1199.8	1497.3
-35°	176.8	258.4	366.0	480.0	592.9	733.9	866.3	967.7	1005.8	1120.7	1328.4
-37.5°	162.0	233.9	325.6	436.1	545.4	675.1	821.0	938.9	1017.1	1067.5	1221.0
-40°	144.8	205.8	292.1	391.3	497.4	615.8	750.8	888.5	999.4	1094.9	1159.3
-42.5°	126.1	184.2	257.6	346.5	448.8	558.6	675.5	811.8	953.8	1089.7	1189.1
-45°	111.4	160.1	221.3	304.8	397.3	498.7	608.1	723.3	871.7	1025.0	1163.8
-47.5°	95.2	135.7	191.7	259.3	345.1	437.9	537.2	646.1	768.4	915.9	1075.3
-50°	79.6	116.1	159.1	219.6	291.3	375.6	466.4	561.5	669.7	792.4	932.6
-52.5°	68.9	94.8	133.2	179.5	241.0	312.6	392.9	476.8	569.1	669.9	785.1
-55°	57.4	79.8	107.6	145.7	192.2	253.3	318.7	393.2	469.9	557.6	646.2
-57.5°	47.3	65.7	87.3	115.3	152.4	194.6	251.4	310.2	378.4	449.3	520.0
-60°	37.7	52.4	70.2	91.5	116.7	151.5	187.6	236.7	291.1	344.6	403.6
-62.5°	28.4	40.3	54.4	71.1	91.5	111.7	140.5	174.1	209.8	253.8	297.1
-65°	22.4	29.1	39.8	53.2	67.8	85.1	103.0	121.1	149.8	178.4	205.4
-67.5°	16.1	22.2	28.4	35.9	48.2	60.5	73.4	89.2	105.1	120.1	137.6
-70°	13.3	15.6	20.5	26.1	31.5	38.1	48.8	59.9	71.2	82.4	95.0
-72.5°	11.1	13.1	15.2	17.5	21.9	26.3	30.5	34.6	41.8	51.0	59.8
-75°	9.7	10.5	12.1	14.0	15.9	17.7	19.7	23.2	26.7	30.3	33.9
-77.5°	8.8	9.4	10.1	10.9	12.0	13.5	15.1	16.5	17.9	19.3	20.6
-80°	7.9	8.2	8.6	9.1	9.8	10.5	11.3	12.2	13.2	14.3	15.4
-82.5°	7.2	7.4	7.6	7.7	7.9	8.1	8.3	8.8	9.3	9.9	10.5
-85°	6.5	6.6	6.7	6.8	6.9	7.1	7.2	7.3	7.4	7.5	7.5
-87.5°	5.7	5.7	5.8	5.9	5.9	6.0	6.0	6.1	6.2	6.2	6.2
-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):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	4.9	4.9	4.9	4.9	4.9	4.5	4.1	3.7	3.3	3.3	3.3
87.5°	3.3	3.3	3.3	3.3	3.3	2.9	2.5	2.0	1.6	1.6	1.6
85°	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	2.8	2.4
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.9	2.5
80°	3.8	3.8	3.7	3.5	3.3	3.3	3.3	3.3	3.3	2.9	2.5
77.5°	4.9	4.6	4.2	3.8	3.4	3.3	3.3	3.3	3.3	2.9	2.5
75°	5.0	4.7	4.5	4.3	4.1	4.0	3.9	3.7	3.4	3.2	3.2
72.5°	6.3	6.2	6.1	6.2	6.2	6.0	5.7	5.3	4.7	4.6	4.7
70°	9.5	9.8	9.9	9.7	9.2	8.4	7.8	7.1	6.4	6.3	6.4
67.5°	14.6	14.8	14.3	13.3	11.5	10.0	9.2	8.2	7.1	6.8	7.2
65°	20.7	18.2	16.3	14.6	13.0	11.6	10.6	9.5	8.3	8.2	9.1
62.5°	24.7	19.4	16.4	15.0	14.0	13.0	11.5	10.1	8.9	8.3	8.4
60°	28.1	20.7	15.6	14.3	13.0	11.7	10.2	8.9	7.8	7.1	6.9
57.5°	29.8	21.1	14.3	12.4	10.6	8.9	8.1	7.8	7.2	6.6	7.0
55°	28.7	19.6	12.1	10.8	10.2	9.9	9.6	8.8	8.1	7.6	7.9
52.5°	24.5	17.9	12.9	11.2	10.8	10.3	9.8	9.7	9.5	9.3	9.4
50°	21.9	16.7	13.3	11.4	11.3	11.4	11.4	11.5	11.7	11.9	12.0
47.5°	19.5	15.7	14.9	13.0	13.3	14.4	14.6	14.8	15.7	15.6	15.2
45°	19.4	20.9	20.5	19.4	18.7	26.0	26.4	22.2	26.3	25.8	22.6
42.5°	28.6	30.6	31.1	38.3	51.7	51.0	49.6	56.2	51.7	45.2	40.7
40°	44.3	44.3	52.6	64.6	64.1	61.6	69.8	70.8	70.3	74.1	72.9
37.5°	70.5	71.4	75.2	82.3	95.0	89.0	106.9	118.3	120.1	136.1	148.5
35°	117.3	137.5	119.5	162.3	190.4	184.4	210.4	256.9	213.0	326.2	346.7
32.5°	219.9	265.2	300.0	349.0	412.2	505.6	512.5	843.3	909.5	1104.7	1371.6
30°	378.6	509.9	762.2	828.1	929.8	1316.9	1774.6	2347.2	2879.6	3259.8	3760.0
27.5°	911.7	1128.6	1672.1	2262.5	2228.1	2951.3	4588.2	5091.8	6474.0	6933.9	8100.6
25°	2039.2	2558.7	3874.2	5046.5	5644.0	7549.6	9709.2	10683.2	12504.0	13472.1	14900.4
22.5°	3987.8	5412.9	7157.7	8958.1	11201.5	14119.3	16789.0	18737.7	21189.4	23157.6	24322.5
20°	6454.5	8426.5	11113.5	13910.1	17380.2	21213.3	23999.9	27948.0	31635.4	35136.8	36716.1
17.5°	8803.5	12098.1	15348.9	18724.4	23276.4	28290.4	32832.0	38606.3	44720.4	49422.2	53255.1
15°	10793.8	14459.8	19150.1	23184.3	28394.4	34647.0	41398.8	48781.0	57573.8	64256.7	71453.6
12.5°	12631.0	16306.9	21396.0	26214.1	33229.6	40291.4	48170.6	57343.1	67507.4	77393.3	86666.7
10°	13813.8	18050.5	23503.8	29357.3	36543.7	44743.8	53706.7	63982.4	77007.9	88309.9	98757.3
7.5°	14529.4	19640.5	25287.4	31529.0	39222.1	47660.4	57099.7	69213.4	82899.2	94704.5	104090.3
5°	15233.2	20943.2	26438.7	32575.9	40965.5	49552.2	58759.2	70910.4	85026.2	96842.6	105271.0
2.5°	15939.0	21840.0	27071.1	32992.5	41955.4	50621.4	60369.2	73314.9	87503.4	98355.8	105677.3
0°	16584.0	22159.9	27298.6	33097.1	42386.4	51088.3	61012.7	73795.9	89624.4	100061.7	107150.3
-2.5°	16818.0	22142.6	27052.5	32801.8	42026.5	50449.1	60326.3	74102.7	88873.9	99494.4	106692.3
-5°	16106.5	20938.5	25716.7	31540.1	40115.3	48809.2	58752.7	72413.1	86434.8	97429.7	104293.5
-7.5°	14768.7	19134.5	23834.4	29605.0	37396.4	45797.7	54849.6	66781.6	80585.6	90828.6	96234.5
-10°	13368.5	17113.1	21553.0	26893.9	33760.0	41738.3	49241.5	59394.4	72152.8	81233.7	86766.2
-12.5°	11767.8	14806.5	18904.5	23572.7	29701.5	36657.1	43519.8	52107.3	61851.0	71191.0	76950.7
-15°	10087.4	12532.9	16093.5	20573.0	25413.1	30615.8	36962.0	43918.2	51687.6	59258.2	65819.6
-17.5°	8742.3	10629.5	13897.0	17922.6	21613.3	25833.9	32019.4	37674.4	43360.5	49466.1	54932.2
-20°	7877.2	9648.6	12288.0	15649.3	19310.5	23565.0	28344.8	33290.9	38576.5	43264.3	48082.1



REPORT NUMBER: P731490 (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°	7186.8	9007.5	11043.9	13845.2	17742.2	21650.9	25327.8	29113.0	33498.1	38286.5	42322.4
-25°	6289.8	8199.2	10134.0	12798.4	16079.3	19534.2	22241.3	24936.3	28892.9	32965.1	36301.6
-27.5°	5042.5	7201.3	9460.2	11628.9	14425.7	16882.8	19261.7	21704.1	25154.1	28591.6	31084.5
-30°	3598.3	6091.7	8437.7	10653.6	12573.9	14508.8	16498.3	18998.6	21882.5	24648.4	26767.5
-32.5°	2632.9	4501.3	7038.3	9300.0	11179.2	12798.9	14326.9	16551.6	18807.9	21025.7	23051.1
-35°	1680.1	3045.7	5022.6	7325.6	9531.9	11251.4	12912.8	14524.8	16220.6	18110.7	19863.4
-37.5°	1446.6	1813.7	3028.2	4746.5	6860.9	9107.9	10741.3	12346.1	14077.1	15497.2	16970.7
-40°	1311.1	1502.9	1810.5	2419.9	4016.5	5601.8	7436.9	9153.2	10807.8	12265.5	13612.0
-42.5°	1251.9	1366.7	1490.9	1722.1	1979.7	2739.8	4077.7	5327.4	6800.0	8263.2	9541.1
-45°	1281.8	1321.3	1384.5	1498.2	1603.6	1817.7	2043.2	2278.7	3285.1	4340.2	5244.4
-47.5°	1199.8	1314.7	1376.0	1425.5	1479.6	1572.8	1669.2	1800.4	2027.3	2257.2	2439.4
-50°	1063.6	1186.1	1293.6	1399.7	1451.0	1488.2	1528.0	1604.8	1710.1	1818.4	1898.1
-52.5°	894.2	1012.7	1131.1	1238.5	1326.1	1410.7	1494.3	1557.3	1612.3	1666.7	1692.9
-55°	742.7	841.5	936.9	1033.7	1129.1	1219.6	1312.3	1406.6	1494.2	1575.2	1615.2
-57.5°	600.3	683.1	765.2	839.0	915.0	992.4	1078.3	1169.9	1260.6	1345.2	1389.0
-60°	465.1	528.7	595.8	656.0	712.5	765.5	839.7	914.8	986.8	1048.2	1080.8
-62.5°	340.1	389.5	440.4	488.2	533.5	578.5	634.3	688.7	741.0	783.2	807.8
-65°	235.8	272.5	306.7	339.7	371.8	410.2	452.5	493.2	531.8	560.7	577.0
-67.5°	160.9	182.7	201.9	219.7	242.7	269.7	299.3	327.2	353.2	372.1	384.6
-70°	107.5	119.4	129.9	142.0	156.6	171.3	187.3	203.1	218.5	229.1	235.7
-72.5°	68.2	75.7	82.9	91.2	99.0	106.9	114.6	121.9	128.5	134.7	140.3
-75°	37.4	41.4	47.1	52.3	57.2	62.5	67.5	72.0	76.0	78.6	80.6
-77.5°	22.8	25.4	27.8	29.9	31.7	34.0	36.6	39.3	42.0	43.8	45.2
-80°	16.5	17.4	18.2	19.1	19.9	20.7	21.3	21.8	22.2	22.8	23.5
-82.5°	11.2	11.7	12.1	12.6	12.9	13.7	14.4	15.1	15.8	16.4	16.9
-85°	7.6	7.6	7.5	7.6	7.6	8.0	8.5	9.0	9.5	9.7	9.7
-87.5°	6.3	6.0	5.6	5.3	4.9	4.9	4.9	4.8	4.8	4.9	4.9
-90°	3.3	3.3	3.3	3.3	3.3	2.9	2.5	2.0	1.6	1.6	1.6



REPORT NUMBER: P731490 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-CV1

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.7
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0
85°	2.0	1.6	1.6	1.6	1.6	1.6	2.0	2.4	2.8	3.2	3.2
82.5°	2.0	1.6	1.6	1.6	1.6	1.6	2.0	2.5	2.9	3.3	3.3
80°	2.0	1.6	1.6	1.6	1.6	1.6	2.0	2.5	2.9	3.3	3.3
77.5°	2.1	1.6	1.6	1.6	1.6	1.6	2.1	2.5	2.9	3.3	3.3
75°	3.2	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.4	3.7
72.5°	4.8	4.9	4.9	4.9	4.9	4.9	4.8	4.7	4.6	4.7	5.3
70°	6.5	6.5	6.6	6.6	6.6	6.5	6.5	6.4	6.3	6.4	7.1
67.5°	7.6	8.1	8.2	8.2	8.2	8.1	7.6	7.2	6.8	7.1	8.2
65°	10.2	11.2	10.8	9.9	10.8	11.2	10.2	9.1	8.2	8.3	9.5
62.5°	8.4	8.3	8.2	8.2	8.2	8.3	8.4	8.4	8.3	8.9	10.1
60°	6.8	6.7	6.6	6.6	6.6	6.7	6.8	6.9	7.1	7.8	8.9
57.5°	7.5	8.0	8.2	8.2	8.2	8.0	7.5	7.0	6.6	7.2	7.8
55°	8.1	8.2	8.2	8.2	8.2	8.2	8.1	7.9	7.6	8.1	8.8
52.5°	9.6	9.8	9.9	9.9	9.9	9.8	9.6	9.4	9.3	9.5	9.7
50°	11.9	11.6	11.5	11.5	11.5	11.6	11.9	12.0	11.9	11.7	11.5
47.5°	15.1	14.8	14.7	14.8	14.7	14.8	15.1	15.2	15.6	15.7	14.8
45°	22.5	21.8	21.3	21.4	21.3	21.8	22.5	22.6	25.8	26.3	22.2
42.5°	43.1	44.7	46.4	49.5	46.4	44.7	43.1	40.7	45.2	51.7	56.2
40°	73.6	71.5	68.7	69.3	68.7	71.5	73.6	72.9	74.1	70.3	70.8
37.5°	153.0	147.2	136.2	128.7	136.2	147.2	153.0	148.5	136.1	120.1	118.3
35°	314.5	307.1	289.0	283.7	289.0	307.1	314.5	346.7	326.2	213.0	256.9
32.5°	1480.3	1650.1	1703.4	1705.7	1703.4	1650.1	1480.3	1371.6	1104.7	909.5	843.3
30°	3798.9	3757.6	3391.1	3013.9	3391.1	3757.6	3798.9	3760.0	3259.8	2879.6	2347.2
27.5°	9142.8	10259.7	11066.5	10805.3	11066.5	10259.7	9142.8	8100.6	6933.9	6474.0	5091.8
25°	16467.1	17257.5	17516.9	17131.7	17516.9	17257.5	16467.1	14900.4	13472.1	12504.0	10683.2
22.5°	25853.0	26327.7	26286.4	25419.6	26286.4	26327.7	25853.0	24322.5	23157.6	21189.4	18737.7
20°	38932.5	38856.8	39245.7	37481.9	39245.7	38856.8	38932.5	36716.1	35136.8	31635.4	27948.0
17.5°	57431.6	60469.9	62783.3	62561.7	62783.3	60469.9	57431.6	53255.1	49422.2	44720.4	38606.3
15°	77082.6	81673.6	84811.5	85015.2	84811.5	81673.6	77082.6	71453.6	64256.7	57573.8	48781.0
12.5°	94164.7	99074.4	101739.4	101334.5	101739.4	99074.4	94164.7	86666.7	77393.3	67507.4	57343.1
10°	105046.5	108825.5	111630.2	112327.0	111630.2	108825.5	105046.5	98757.3	88309.9	77007.9	63982.4
7.5°	109409.9	112946.8	115391.7	115354.9	115391.7	112946.8	109409.9	104090.3	94704.5	82899.2	69213.4
5°	110217.5	113699.8	115083.5	115345.8	115083.5	113699.8	110217.5	105271.0	96842.6	85026.2	70910.4
2.5°	111011.6	113898.7	115402.7	114831.2	115402.7	113898.7	111011.6	105677.3	98355.8	87503.4	73314.9
0°	111322.3	113636.8	114812.2	114448.4	114812.2	113636.8	111322.3	107150.3	100061.7	89624.4	73795.9
-2.5°	111215.9	112738.3	113733.2	113389.3	113733.2	112738.3	111215.9	106692.3	99494.4	88873.9	74102.7
-5°	108369.8	109681.0	110144.5	110398.5	110144.5	109681.0	108369.8	104293.5	97429.7	86434.8	72413.1
-7.5°	99223.8	100947.1	100393.0	101228.8	100393.0	100947.1	99223.8	96234.5	90828.6	80585.6	66781.6
-10°	90176.0	91852.9	91277.6	91816.7	91277.6	91852.9	90176.0	86766.2	81233.7	72152.8	59394.4
-12.5°	81644.0	83753.5	83722.2	84487.3	83722.2	83753.5	81644.0	76950.7	71191.0	61851.0	52107.3
-15°	71386.6	74073.2	75536.3	76474.9	75536.3	74073.2	71386.6	65819.6	59258.2	51687.6	43918.2
-17.5°	60551.3	64006.2	66467.5	66845.9	66467.5	64006.2	60551.3	54932.2	49466.1	43360.5	37674.4
-20°	52221.1	55335.8	57652.3	58399.6	57652.3	55335.8	52221.1	48082.1	43264.3	38576.5	33290.9



REPORT NUMBER: P731490 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-CV1

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	45242.8	47813.1	49488.1	49900.5	49488.1	47813.1	45242.8	42322.4	38286.5	33498.1	29113.0
-25°	38487.6	39924.7	40803.9	41135.9	40803.9	39924.7	38487.6	36301.6	32965.1	28892.9	24936.3
-27.5°	32989.7	34014.7	34453.6	34626.4	34453.6	34014.7	32989.7	31084.5	28591.6	25154.1	21704.1
-30°	28387.4	29174.5	29656.7	29835.7	29656.7	29174.5	28387.4	26767.5	24648.4	21882.5	18998.6
-32.5°	24598.8	25382.3	25890.5	26072.9	25890.5	25382.3	24598.8	23051.1	21025.7	18807.9	16551.6
-35°	21051.6	21699.2	22162.3	22377.6	22162.3	21699.2	21051.6	19863.4	18110.7	16220.6	14524.8
-37.5°	17916.1	18500.5	18886.1	19005.7	18886.1	18500.5	17916.1	16970.7	15497.2	14077.1	12346.1
-40°	14370.6	14897.9	15191.2	15176.9	15191.2	14897.9	14370.6	13612.0	12265.5	10807.8	9153.2
-42.5°	10296.3	10828.8	11205.2	11488.2	11205.2	10828.8	10296.3	9541.1	8263.2	6800.0	5327.4
-45°	5849.5	6287.1	6568.8	6700.9	6568.8	6287.1	5849.5	5244.4	4340.2	3285.1	2278.7
-47.5°	2547.6	2627.1	2667.0	2667.5	2667.0	2627.1	2547.6	2439.4	2257.2	2027.3	1800.4
-50°	1955.9	2005.8	2034.6	2042.3	2034.6	2005.8	1955.9	1898.1	1818.4	1710.1	1604.8
-52.5°	1711.3	1728.6	1736.4	1737.1	1736.4	1728.6	1711.3	1692.9	1666.7	1612.3	1557.3
-55°	1649.1	1677.8	1689.3	1687.6	1689.3	1677.8	1649.1	1615.2	1575.2	1494.2	1406.6
-57.5°	1425.6	1454.3	1470.8	1476.4	1470.8	1454.3	1425.6	1389.0	1345.2	1260.6	1169.9
-60°	1106.0	1124.0	1139.6	1149.8	1139.6	1124.0	1106.0	1080.8	1048.2	986.8	914.8
-62.5°	827.8	842.9	857.4	867.7	857.4	842.9	827.8	807.8	783.2	741.0	688.7
-65°	588.8	596.3	608.4	618.6	608.4	596.3	588.8	577.0	560.7	531.8	493.2
-67.5°	394.5	401.7	406.1	407.5	406.1	401.7	394.5	384.6	372.1	353.2	327.2
-70°	240.3	243.0	248.1	252.4	248.1	243.0	240.3	235.7	229.1	218.5	203.1
-72.5°	145.4	149.7	149.8	148.5	149.8	149.7	145.4	140.3	134.7	128.5	121.9
-75°	82.2	83.3	83.9	84.1	83.9	83.3	82.2	80.6	78.6	76.0	72.0
-77.5°	46.4	47.3	46.9	46.2	46.9	47.3	46.4	45.2	43.8	42.0	39.3
-80°	24.1	24.6	24.7	24.7	24.7	24.6	24.1	23.5	22.8	22.2	21.8
-82.5°	17.5	18.0	17.3	16.5	17.3	18.0	17.5	16.9	16.4	15.8	15.1
-85°	9.8	9.9	9.9	9.9	9.9	9.9	9.8	9.7	9.7	9.5	9.0
-87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.8	4.8
-90°	1.6	1.6	0.8	0.0	0.8	1.6	1.6	1.6	1.6	1.6	2.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	4.1	4.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
87.5°	2.5	2.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
85°	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.5	3.5	3.6	3.5
80°	3.3	3.3	3.3	3.5	3.7	3.8	3.8	4.0	4.2	4.5	4.6
77.5°	3.3	3.3	3.4	3.8	4.2	4.6	4.9	4.9	4.8	4.8	4.8
75°	3.9	4.0	4.1	4.3	4.5	4.7	5.0	5.3	5.5	5.5	5.2
72.5°	5.7	6.0	6.2	6.2	6.1	6.2	6.3	6.4	6.5	6.6	6.2
70°	7.8	8.4	9.2	9.7	9.9	9.8	9.5	9.0	8.1	7.8	7.3
67.5°	9.2	10.0	11.5	13.3	14.3	14.8	14.6	13.7	12.8	11.8	9.4
65°	10.6	11.6	13.0	14.6	16.3	18.2	20.7	20.9	19.9	17.6	12.7
62.5°	11.5	13.0	14.0	15.0	16.4	19.4	24.7	27.6	28.3	24.9	18.7
60°	10.2	11.7	13.0	14.3	15.6	20.7	28.1	33.8	37.7	32.1	24.2
57.5°	8.1	8.9	10.6	12.4	14.3	21.1	29.8	39.0	45.1	36.6	28.6
55°	9.6	9.9	10.2	10.8	12.1	19.6	28.7	38.4	43.7	38.3	29.4
52.5°	9.8	10.3	10.8	11.2	12.9	17.9	24.5	34.3	37.2	32.8	27.5
50°	11.4	11.4	11.3	11.4	13.3	16.7	21.9	29.1	28.7	26.8	22.4
47.5°	14.6	14.4	13.3	13.0	14.9	15.7	19.5	22.8	23.4	21.3	18.1
45°	26.4	26.0	18.7	19.4	20.5	20.9	19.4	21.4	21.1	19.3	15.2
42.5°	49.6	51.0	51.7	38.3	31.1	30.6	28.6	26.8	24.7	20.6	18.5
40°	69.8	61.6	64.1	64.6	52.6	44.3	44.3	37.6	33.6	28.0	26.5
37.5°	106.9	89.0	95.0	82.3	75.2	71.4	70.5	59.8	45.4	49.8	46.8
35°	210.4	184.4	190.4	162.3	119.5	137.5	117.3	95.3	83.2	85.0	76.5
32.5°	512.5	505.6	412.2	349.0	300.0	265.2	219.9	156.0	163.4	151.3	121.4
30°	1774.6	1316.9	929.8	828.1	762.2	509.9	378.6	367.6	293.9	244.6	184.3
27.5°	4588.2	2951.3	2228.1	2262.5	1672.1	1128.6	911.7	742.1	504.6	381.0	291.1
25°	9709.2	7549.6	5644.0	5046.5	3874.2	2558.7	2039.2	1498.0	951.3	551.4	447.2
22.5°	16789.0	14119.3	11201.5	8958.1	7157.7	5412.9	3987.8	2584.3	1520.1	881.6	633.9
20°	23999.9	21213.3	17380.2	13910.1	11113.5	8426.5	6454.5	4301.9	2572.2	1385.2	831.9
17.5°	32832.0	28290.4	23276.4	18724.4	15348.9	12098.1	8803.5	6097.5	3799.3	1913.6	1035.0
15°	41398.8	34647.0	28394.4	23184.3	19150.1	14459.8	10793.8	7746.8	5200.3	2752.4	1428.6
12.5°	48170.6	40291.4	33229.6	26214.1	21396.0	16306.9	12631.0	9441.3	6473.1	3626.8	1765.0
10°	53706.7	44743.8	36543.7	29357.3	23503.8	18050.5	13813.8	10253.0	6950.6	4243.3	2072.3
7.5°	57099.7	47660.4	39222.1	31529.0	25287.4	19640.5	14529.4	10587.4	7191.4	4679.6	2343.7
5°	58759.2	49552.2	40965.5	32575.9	26438.7	20943.2	15233.2	10690.6	7225.5	4950.7	2571.3
2.5°	60369.2	50621.4	41955.4	32992.5	27071.1	21840.0	15939.0	10762.0	7291.7	5075.0	2646.7
0°	61012.7	51088.3	42386.4	33097.1	27298.6	22159.9	16584.0	10788.8	7334.4	5077.7	2660.9
-2.5°	60326.3	50449.1	42026.5	32801.8	27052.5	22142.6	16818.0	11602.9	7796.2	5324.0	2735.8
-5°	58752.7	48809.2	40115.3	31540.1	25716.7	20938.5	16106.5	11635.9	7903.3	5354.9	2739.8
-7.5°	54849.6	45797.7	37396.4	29605.0	23834.4	19134.5	14768.7	10845.3	7418.6	4883.8	2518.4
-10°	49241.5	41738.3	33760.0	26893.9	21553.0	17113.1	13368.5	9890.0	6795.1	4320.3	2244.6
-12.5°	43519.8	36657.1	29701.5	23572.7	18904.5	14806.5	11767.8	8782.8	6033.0	3680.4	1926.1
-15°	36962.0	30615.8	25413.1	20573.0	16093.5	12532.9	10087.4	7686.8	5363.9	3039.1	1569.3
-17.5°	32019.4	25833.9	21613.3	17922.6	13897.0	10629.5	8742.3	6857.8	4714.4	2561.0	1260.8
-20°	28344.8	23565.0	19310.5	15649.3	12288.0	9648.6	7877.2	6074.6	3953.5	2150.1	1193.7



REPORT NUMBER: P731490 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-CV1

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	25327.8	21650.9	17742.2	13845.2	11043.9	9007.5	7186.8	5262.7	3074.8	1634.6	1109.0
-25°	22241.3	19534.2	16079.3	12798.4	10134.0	8199.2	6289.8	4168.6	2403.7	1311.8	1018.5
-27.5°	19261.7	16882.8	14425.7	11628.9	9460.2	7201.3	5042.5	3016.0	1666.6	1193.1	985.6
-30°	16498.3	14508.8	12573.9	10653.6	8437.7	6091.7	3598.3	2155.3	1361.5	1085.6	951.5
-32.5°	14326.9	12798.9	11179.2	9300.0	7038.3	4501.3	2632.9	1497.3	1199.8	1041.0	954.3
-35°	12912.8	11251.4	9531.9	7325.6	5022.6	3045.7	1680.1	1328.4	1120.7	1005.8	967.7
-37.5°	10741.3	9107.9	6860.9	4746.5	3028.2	1813.7	1446.6	1221.0	1067.5	1017.1	938.9
-40°	7436.9	5601.8	4016.5	2419.9	1810.5	1502.9	1311.1	1159.3	1094.9	999.4	888.5
-42.5°	4077.7	2739.8	1979.7	1722.1	1490.9	1366.7	1251.9	1189.1	1089.7	953.8	811.8
-45°	2043.2	1817.7	1603.6	1498.2	1384.5	1321.3	1281.8	1163.8	1025.0	871.7	723.3
-47.5°	1669.2	1572.8	1479.6	1425.5	1376.0	1314.7	1199.8	1075.3	915.9	768.4	646.1
-50°	1528.0	1488.2	1451.0	1399.7	1293.6	1186.1	1063.6	932.6	792.4	669.7	561.5
-52.5°	1494.3	1410.7	1326.1	1238.5	1131.1	1012.7	894.2	785.1	669.9	569.1	476.8
-55°	1312.3	1219.6	1129.1	1033.7	936.9	841.5	742.7	646.2	557.6	469.9	393.2
-57.5°	1078.3	992.4	915.0	839.0	765.2	683.1	600.3	520.0	449.3	378.4	310.2
-60°	839.7	765.5	712.5	656.0	595.8	528.7	465.1	403.6	344.6	291.1	236.7
-62.5°	634.3	578.5	533.5	488.2	440.4	389.5	340.1	297.1	253.8	209.8	174.1
-65°	452.5	410.2	371.8	339.7	306.7	272.5	235.8	205.4	178.4	149.8	121.1
-67.5°	299.3	269.7	242.7	219.7	201.9	182.7	160.9	137.6	120.1	105.1	89.2
-70°	187.3	171.3	156.6	142.0	129.9	119.4	107.5	95.0	82.4	71.2	59.9
-72.5°	114.6	106.9	99.0	91.2	82.9	75.7	68.2	59.8	51.0	41.8	34.6
-75°	67.5	62.5	57.2	52.3	47.1	41.4	37.4	33.9	30.3	26.7	23.2
-77.5°	36.6	34.0	31.7	29.9	27.8	25.4	22.8	20.6	19.3	17.9	16.5
-80°	21.3	20.7	19.9	19.1	18.2	17.4	16.5	15.4	14.3	13.2	12.2
-82.5°	14.4	13.7	12.9	12.6	12.1	11.7	11.2	10.5	9.9	9.3	8.8
-85°	8.5	8.0	7.6	7.6	7.5	7.6	7.6	7.5	7.5	7.4	7.3
-87.5°	4.9	4.9	4.9	5.3	5.6	6.0	6.3	6.2	6.2	6.2	6.1
-90°	2.5	2.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3





REPORT NUMBER: P731490 (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°
90°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.7	4.1	4.5
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.7	4.1	4.5
82.5°	3.3	3.3	3.3	3.3	3.6	3.7	3.8	3.7	3.9	4.1	4.5
80°	4.1	3.7	3.4	3.4	3.8	4.2	4.4	4.4	4.4	4.4	4.6
77.5°	4.6	4.2	3.6	3.4	3.8	4.2	4.6	4.9	4.8	4.7	4.7
75°	4.9	4.7	4.4	4.1	4.1	4.2	4.6	4.9	4.9	4.9	4.8
72.5°	5.6	5.2	4.9	4.9	4.6	4.6	4.7	4.9	4.9	4.9	4.9
70°	6.4	5.6	5.0	4.9	4.9	4.9	4.8	4.9	4.9	4.9	4.9
67.5°	7.4	6.5	5.6	5.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9
65°	9.9	7.8	6.5	5.7	5.1	4.9	4.9	4.9	4.9	4.9	4.9
62.5°	13.3	9.1	7.4	6.4	5.5	5.0	4.9	4.9	4.9	4.9	4.9
60°	17.9	12.4	8.7	7.5	6.2	5.1	4.9	4.9	4.9	4.9	4.9
57.5°	21.0	15.4	11.8	9.0	7.4	5.8	5.1	5.1	4.9	4.9	4.9
55°	22.4	16.7	14.0	11.0	8.7	7.1	5.7	5.3	5.0	4.9	5.0
52.5°	20.9	17.5	15.3	12.5	9.8	8.4	6.9	5.7	5.3	4.9	5.1
50°	17.3	17.6	16.2	13.6	10.7	9.0	7.9	6.5	5.8	5.0	5.1
47.5°	15.5	17.1	16.7	14.6	11.7	9.7	8.7	7.4	6.3	5.5	5.2
45°	16.2	16.4	17.0	15.5	13.0	10.8	9.3	8.1	6.9	6.0	5.3
42.5°	18.4	18.0	17.2	16.6	14.6	12.1	9.8	8.6	7.4	6.5	5.6
40°	24.3	21.4	18.5	18.3	16.5	13.2	10.8	9.1	7.9	7.0	6.0
37.5°	32.2	27.7	22.6	22.2	19.3	15.3	11.9	9.6	8.5	7.5	6.5
35°	56.8	36.6	35.3	31.3	24.3	17.6	12.8	10.2	9.1	7.9	6.9
32.5°	88.0	66.5	62.5	46.8	31.0	20.1	14.5	11.6	9.7	8.4	7.3
30°	147.1	141.0	102.0	66.5	41.6	26.3	17.4	13.2	10.4	8.8	7.6
27.5°	258.8	239.2	159.5	102.8	60.4	34.3	21.7	15.0	11.1	9.3	8.0
25°	386.4	349.5	256.0	151.0	82.0	54.6	26.6	17.1	12.4	9.9	8.3
22.5°	531.7	465.1	368.5	206.5	126.3	81.8	37.5	21.0	13.9	10.4	8.7
20°	676.5	587.1	487.5	276.6	182.3	119.5	57.1	25.2	15.6	11.0	9.0
17.5°	826.3	687.8	551.7	361.2	240.2	160.3	80.1	29.6	17.3	11.6	9.3
15°	947.6	754.3	607.9	434.3	294.6	203.3	105.8	34.2	19.0	12.2	9.5
12.5°	1047.1	816.8	660.1	496.8	345.5	247.7	133.4	38.8	20.8	12.7	9.6
10°	1137.1	874.6	707.9	549.5	393.1	292.6	161.7	43.2	22.7	13.2	9.7
7.5°	1217.0	927.4	751.1	593.3	431.5	320.7	179.3	47.4	24.7	13.6	9.8
5°	1279.3	969.4	778.7	606.1	435.3	327.8	192.5	51.3	26.5	14.1	9.9
2.5°	1300.6	997.8	795.4	610.1	436.1	330.7	202.6	54.7	28.2	14.5	9.9
0°	1308.2	1019.5	806.7	608.7	433.9	329.9	209.5	57.7	29.7	14.8	9.9
-2.5°	1318.9	1024.1	819.4	634.3	456.0	341.7	220.7	72.0	38.7	19.8	11.7
-5°	1317.1	1021.8	827.0	654.3	474.3	350.6	228.6	85.4	47.3	24.7	13.4
-7.5°	1272.1	996.1	820.4	666.1	488.2	356.4	233.6	97.7	55.2	29.1	15.0
-10°	1208.2	953.9	795.9	659.2	497.9	363.9	236.5	108.5	62.2	33.0	16.4
-12.5°	1133.0	907.5	773.1	651.1	504.4	372.7	242.0	118.9	68.3	36.2	17.5
-15°	1046.9	857.5	754.1	643.3	507.6	378.4	243.6	127.7	74.2	39.2	18.3
-17.5°	958.9	804.7	740.5	636.8	507.8	381.1	241.5	134.2	78.8	42.1	19.7
-20°	929.9	787.4	732.1	632.9	505.1	380.9	235.4	138.0	81.7	44.1	21.3



REPORT NUMBER: P731490 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-CV1

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	905.3	803.4	731.3	626.2	500.2	377.7	225.2	138.9	83.0	45.0	22.5
-25°	878.8	820.6	726.4	609.0	492.6	363.4	218.6	136.7	82.6	45.0	23.1
-27.5°	883.7	830.4	713.6	584.2	469.7	344.3	215.4	135.8	81.0	43.7	23.2
-30°	903.3	810.7	683.8	553.0	442.1	312.3	208.1	132.6	79.5	43.0	22.6
-32.5°	906.8	781.5	642.4	519.2	405.7	279.4	193.6	126.8	76.4	42.3	22.4
-35°	866.3	733.9	592.9	480.0	366.0	258.4	176.8	118.4	71.7	40.7	22.1
-37.5°	821.0	675.1	545.4	436.1	325.6	233.9	162.0	107.5	65.3	38.3	21.2
-40°	750.8	615.8	497.4	391.3	292.1	205.8	144.8	96.9	60.5	34.9	19.9
-42.5°	675.5	558.6	448.8	346.5	257.6	184.2	126.1	85.0	54.9	32.2	18.0
-45°	608.1	498.7	397.3	304.8	221.3	160.1	111.4	72.7	48.4	29.5	16.3
-47.5°	537.2	437.9	345.1	259.3	191.7	135.7	95.2	64.6	41.4	26.1	15.0
-50°	466.4	375.6	291.3	219.6	159.1	116.1	79.6	55.9	36.5	21.9	13.4
-52.5°	392.9	312.6	241.0	179.5	133.2	94.8	68.9	46.7	31.0	18.9	11.6
-55°	318.7	253.3	192.2	145.7	107.6	79.8	57.4	39.7	25.0	16.3	9.7
-57.5°	251.4	194.6	152.4	115.3	87.3	65.7	47.3	32.1	21.0	13.5	9.4
-60°	187.6	151.5	116.7	91.5	70.2	52.4	37.7	25.1	17.3	11.0	9.1
-62.5°	140.5	111.7	91.5	71.1	54.4	40.3	28.4	20.4	13.3	10.4	8.7
-65°	103.0	85.1	67.8	53.2	39.8	29.1	22.4	15.4	11.7	9.6	8.2
-67.5°	73.4	60.5	48.2	35.9	28.4	22.2	16.1	12.8	10.5	8.8	7.8
-70°	48.8	38.1	31.5	26.1	20.5	15.6	13.3	11.1	9.3	8.3	7.4
-72.5°	30.5	26.3	21.9	17.5	15.2	13.1	11.1	9.6	8.7	7.9	7.0
-75°	19.7	17.7	15.9	14.0	12.1	10.5	9.7	8.9	8.1	7.4	6.8
-77.5°	15.1	13.5	12.0	10.9	10.1	9.4	8.8	8.3	7.6	7.1	6.8
-80°	11.3	10.5	9.8	9.1	8.6	8.2	7.9	7.7	7.2	6.9	6.7
-82.5°	8.3	8.1	7.9	7.7	7.6	7.4	7.2	7.0	6.8	6.6	6.4
-85°	7.2	7.1	6.9	6.8	6.7	6.6	6.5	6.3	6.2	6.1	5.9
-87.5°	6.0	6.0	5.9	5.9	5.8	5.7	5.7	5.6	5.6	5.5	5.4
-90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.7	4.1	4.5



REPORT NUMBER: P731490 (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	4.9	4.9
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9
85°	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9
70°	4.9	4.9	4.9	4.9	4.9	4.9	4.9
67.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9
65°	4.9	4.9	4.9	4.9	4.9	4.9	4.9
62.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9
60°	4.9	4.9	4.9	4.9	4.9	4.9	4.9
57.5°	5.0	4.9	4.9	4.9	4.9	4.9	4.9
55°	5.1	4.9	4.9	4.9	4.9	4.9	4.9
52.5°	5.2	4.9	4.9	4.9	4.9	4.9	4.9
50°	5.4	5.1	4.9	4.9	4.9	4.9	4.9
47.5°	5.6	5.3	4.9	4.9	4.9	4.9	4.9
45°	5.6	5.4	4.9	4.9	4.9	4.9	4.9
42.5°	5.7	5.6	4.9	4.9	4.9	4.9	4.9
40°	5.8	5.9	5.0	4.9	4.9	4.9	4.9
37.5°	5.9	6.1	5.2	5.0	4.9	4.9	4.9
35°	6.0	6.2	5.3	5.0	4.9	4.9	4.9
32.5°	6.1	6.3	5.5	5.1	4.9	4.9	4.9
30°	6.4	6.4	5.7	5.2	4.9	4.9	4.9
27.5°	6.8	6.5	5.9	5.2	4.9	4.9	4.9
25°	7.0	6.5	6.1	5.3	4.9	4.9	4.9
22.5°	7.3	6.6	6.2	5.5	4.9	4.9	4.9
20°	7.6	6.6	6.3	5.6	4.9	4.9	4.9
17.5°	7.7	6.6	6.4	5.7	4.9	4.9	4.9
15°	7.9	6.6	6.5	5.8	4.9	4.9	4.9
12.5°	8.0	6.6	6.5	6.0	4.9	4.9	4.9
10°	8.1	6.6	6.6	6.1	4.9	4.9	4.9
7.5°	8.1	6.6	6.6	6.2	4.9	4.9	4.9
5°	8.2	6.6	6.6	6.4	4.9	4.9	4.9
2.5°	8.2	6.6	6.6	6.5	4.9	4.9	4.9
0°	8.2	6.6	6.6	6.6	4.9	4.9	4.9
-2.5°	8.6	6.8	6.6	6.6	5.0	4.9	4.9
-5°	9.0	6.9	6.6	6.6	5.0	4.9	4.9
-7.5°	9.4	7.1	6.6	6.6	5.1	4.9	4.9
-10°	9.7	7.3	6.6	6.5	5.2	4.9	4.9
-12.5°	10.0	7.4	6.6	6.5	5.3	4.9	4.9
-15°	10.2	7.5	6.6	6.5	5.3	4.9	4.9
-17.5°	10.3	7.5	6.6	6.5	5.4	4.9	4.9
-20°	10.8	7.6	6.6	6.5	5.4	4.9	4.9



REPORT NUMBER: P731490 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-5S-CV1

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	11.6	7.6	6.6	6.4	5.5	4.9	4.9
-25°	12.2	7.7	6.6	6.4	5.5	4.9	4.9
-27.5°	12.5	7.9	6.6	6.4	5.5	4.9	4.9
-30°	12.6	7.9	6.6	6.4	5.5	4.9	4.9
-32.5°	12.3	7.8	6.7	6.4	5.5	4.9	4.9
-35°	12.0	7.6	6.8	6.5	5.5	4.9	4.9
-37.5°	11.8	7.5	6.8	6.5	5.5	4.9	4.9
-40°	11.4	7.5	6.8	6.6	5.5	4.9	4.9
-42.5°	10.7	7.6	6.9	6.6	5.4	4.9	4.9
-45°	9.9	7.6	6.9	6.6	5.4	4.9	4.9
-47.5°	8.8	7.5	6.9	6.6	5.3	4.9	4.9
-50°	8.6	7.5	6.8	6.5	5.3	4.9	4.9
-52.5°	8.5	7.4	6.8	6.3	5.2	4.9	4.9
-55°	8.3	7.3	6.7	6.2	5.1	4.9	4.9
-57.5°	8.1	7.2	6.7	6.0	5.0	4.9	4.9
-60°	7.9	7.1	6.6	5.9	4.9	4.9	4.9
-62.5°	7.6	6.9	6.4	5.7	4.9	4.9	4.9
-65°	7.3	6.7	6.3	5.6	4.9	4.9	4.9
-67.5°	7.0	6.5	6.1	5.4	4.9	4.9	4.9
-70°	6.6	6.4	6.0	5.3	4.9	4.9	4.9
-72.5°	6.6	6.3	5.9	5.2	4.9	4.9	4.9
-75°	6.6	6.2	5.7	5.2	4.9	4.9	4.9
-77.5°	6.6	6.2	5.6	5.2	4.9	4.9	4.9
-80°	6.6	6.0	5.5	5.1	4.9	4.9	4.9
-82.5°	6.2	5.7	5.3	5.1	4.9	4.9	4.9
-85°	5.8	5.4	5.2	5.0	4.9	4.9	4.9
-87.5°	5.3	5.2	5.0	5.0	4.9	4.9	4.9
-90°	4.9	4.9	4.9	4.9	4.9	4.9	4.9

(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

