

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: P731459 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-70-3S-CV2**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731459 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0530N-40-70-3S-CV2  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

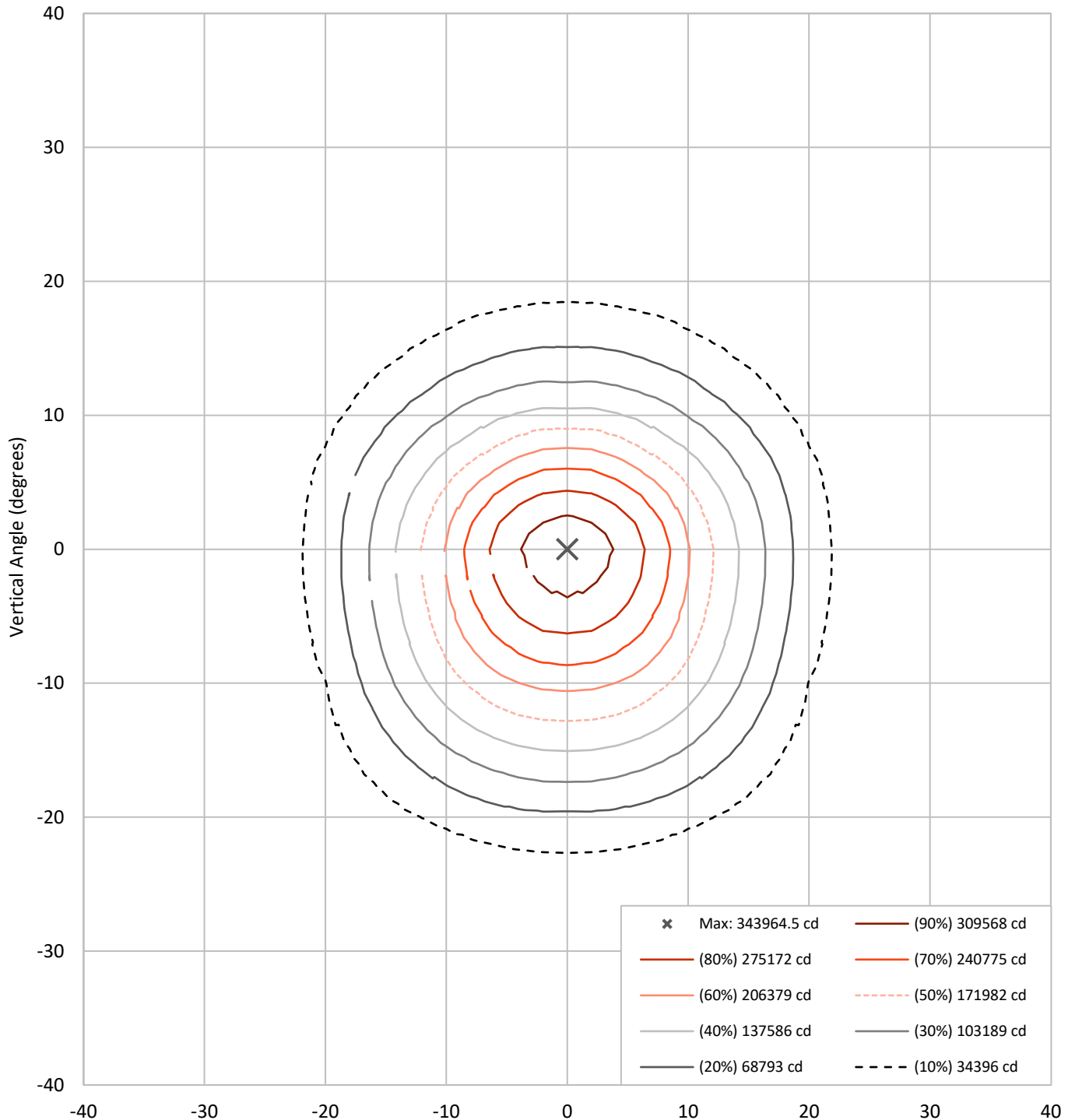
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	67894.5 lumens	Max Intensity:	343964.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	121.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24.2°H x 21.8°V	Field Angle (10%):	43.8°H x 40.9°V
Beam Lumens:	30763.9 lumens	Field Lumens:	58218.2 lumens
Beam Efficiency:	45.3%	Field Efficiency:	85.7%

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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CATALOG NUMBER: EPH-LS-08-0530N-40-70-3S-CV2

### Iso-Candela Plot





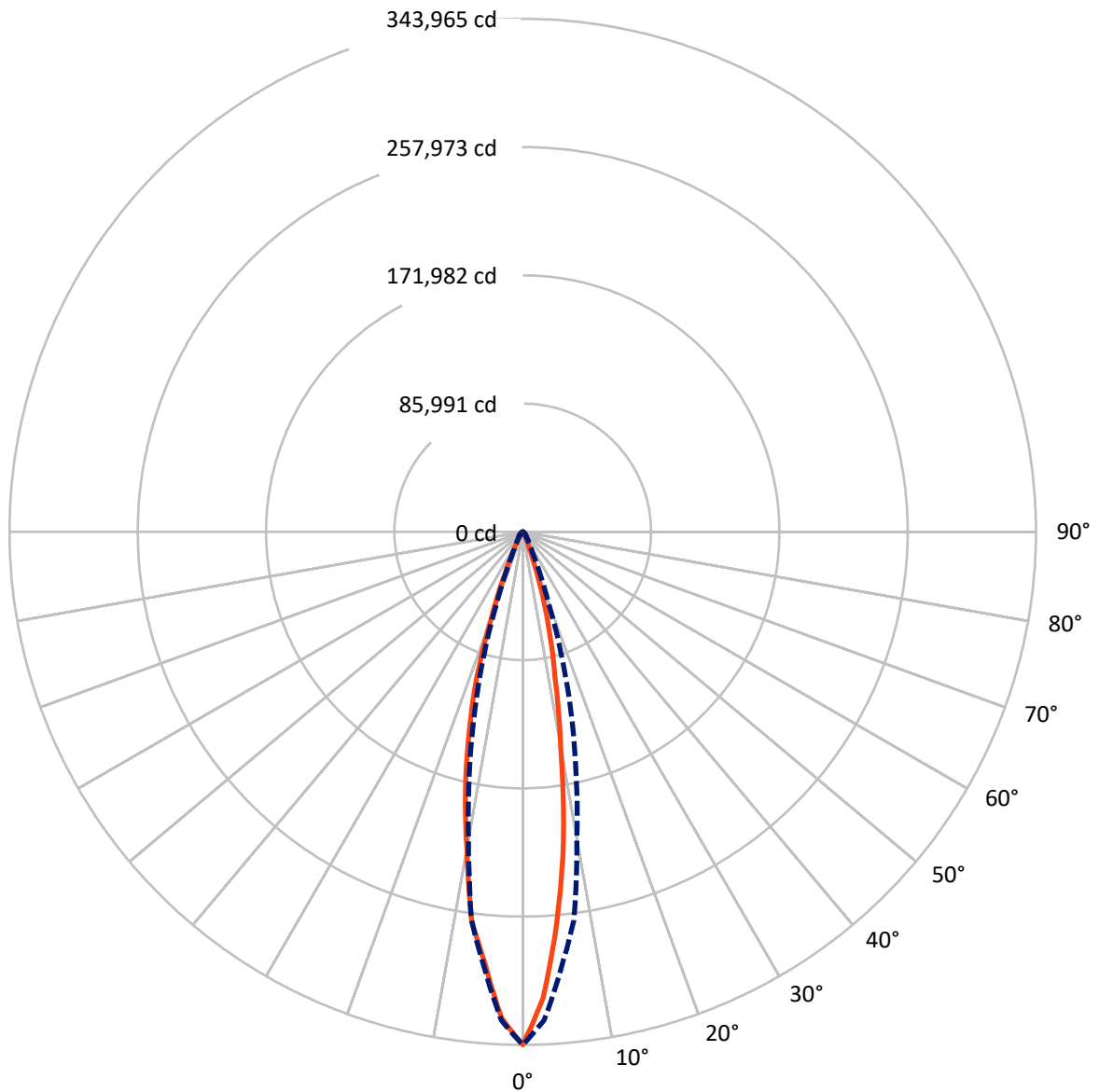
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### Lumen Table

90	0.2		0.5		0.7		0.6		0.5		0.6		0.7		0.5		0.2	
80	0.2		0.5		0.7		0.6		0.5		0.6		0.7		0.5		0.2	
70	0.2	0.1	0.2	0.5	0.7	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.7	0.5	0.2	0.1	0.2	
60		0.1	0.3	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.3	0.1		
50	0.2	0.2	0.4	0.5	0.6	0.9	1.1	1.3	1.3	1.1	0.9	0.6	0.5	0.4	0.2	0.2		
40		0.2	0.8	1.9	3.7	5.7	7.2	8.8	8.8	7.2	5.7	3.7	1.9	0.8	0.2			
30	0.3	0.4	2.8	9.0	23.6	40.7	93.3	195.0	195.0	93.3	40.7	23.6	9.0	2.8	0.4	0.3		
20		0.9	6.7	24.1	59.5	163.0	856.8	2011.7	2011.7	856.8	163.0	59.5	24.1	6.7	0.9			
10	0.4	1.8	11.8	45.1	108.9	490.7	2957.4	6765.4	6765.4	2957.4	490.7	108.9	45.1	11.8	1.8	0.4		
0		3.0	15.6	54.5	124.9	529.6	3412.9	7690.8	7690.8	3412.9	529.6	124.9	54.5	15.6	3.0			
-10	0.6	3.5	15.9	51.8	114.7	308.7	1745.1	3820.8	3820.8	1745.1	308.7	114.7	51.8	15.9	3.5	0.6		
-20		3.3	13.2	33.8	79.0	139.3	320.0	651.9	651.9	320.0	139.3	79.0	33.8	13.2	3.3			
-30	0.5	2.8	9.6	20.8	45.9	81.9	113.3	137.1	137.1	113.3	81.9	45.9	20.8	9.6	2.8	0.5		
-40		1.9	6.7	14.6	26.3	45.2	73.4	95.6	95.6	73.4	45.2	26.3	14.6	6.7	1.9			
-50	0.3	0.9	4.1	9.6	17.2	25.9	33.7	38.7	38.7	33.7	25.9	17.2	9.6	4.1	0.9	0.3		
-60		0.3	1.5	4.9	9.7	15.5	21.4	24.9	24.9	21.4	15.5	9.7	4.9	1.5	0.3			
-70	0.2	0.9	3.4	9.4	13.4	9.4	3.4	0.9	0.2	0.2								
-80		0.2	0.9	3.4	9.4	13.4	9.4	3.4	0.9		0.2							
-90	0.2		0.9		3.4		9.4		13.4		9.4		3.4		0.9		0.2	

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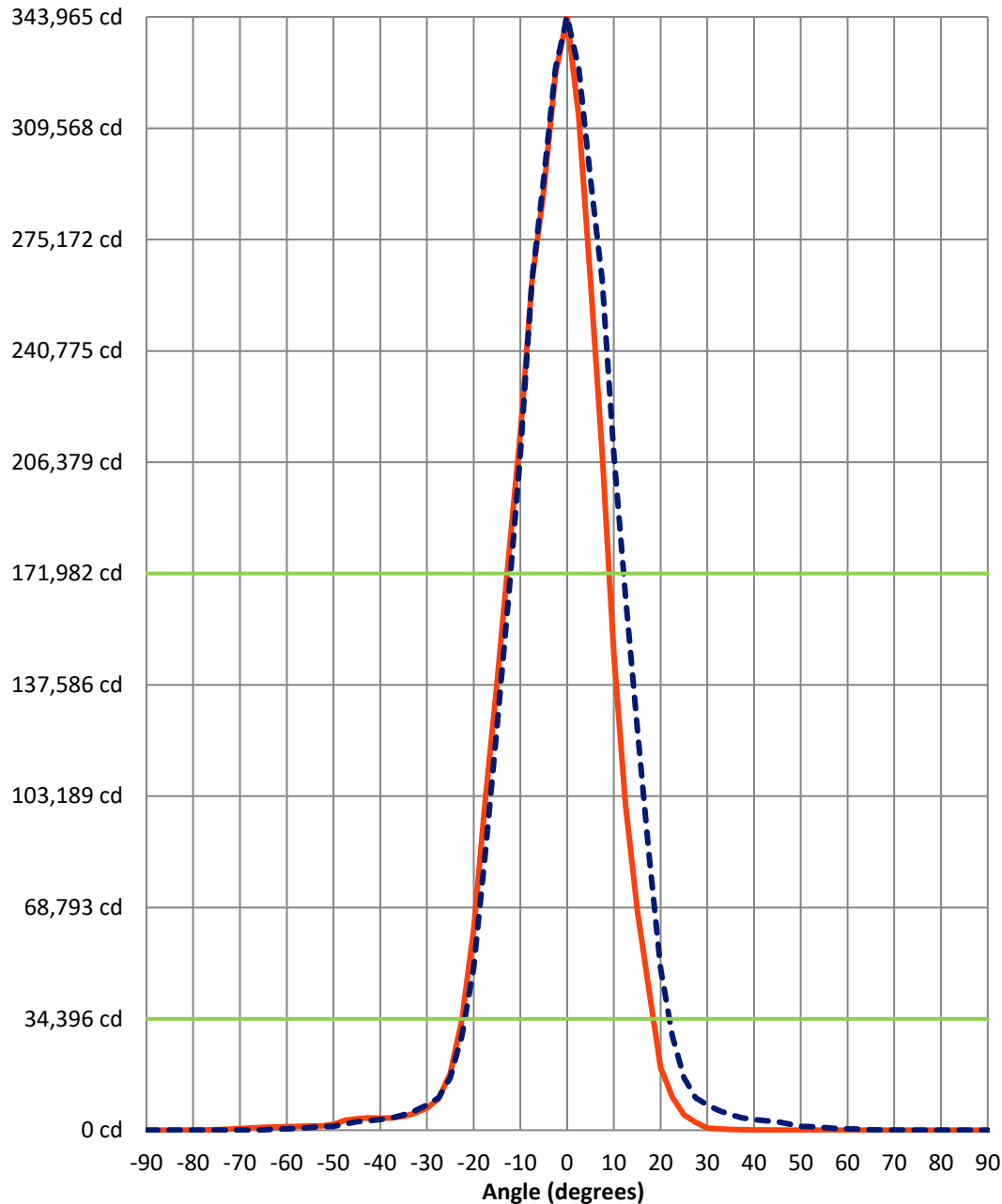
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 24.2°  
 V Angle: 21.8°  
 Lumens: 30763.9  
 Efficiency: 45.3%

**Field:**  
 H Angle: 43.8°  
 V Angle: 40.9°  
 Lumens: 58218.2  
 Efficiency: 85.7%

**Spill:**  
 Lumens: 9676.2  
 Efficiency: 14.3%

— 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°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	9.3	9.8	10.2	10.6
87.5°	8.9	8.9	9.0	9.1	9.0	9.0	8.9	8.9	8.9	8.9	8.9
85°	8.9	9.0	9.2	9.2	9.2	9.1	8.9	8.9	8.9	8.9	8.9
82.5°	8.9	9.0	9.3	9.4	9.3	9.2	8.9	8.9	8.9	9.0	8.9
80°	8.9	9.0	9.5	9.6	9.5	9.3	9.0	9.2	9.2	9.2	8.9
77.5°	8.9	9.1	9.6	9.7	9.7	9.5	9.4	9.6	9.5	9.4	9.0
75°	8.9	9.1	9.7	9.9	9.8	9.7	9.9	10.0	9.9	9.4	9.0
72.5°	8.9	9.1	9.9	10.1	10.0	10.0	10.3	10.3	9.9	9.5	9.1
70°	8.9	9.2	10.0	10.3	10.1	10.3	10.6	10.3	9.9	9.5	9.1
67.5°	8.9	9.2	10.1	10.3	10.3	10.5	10.6	10.4	10.0	9.6	9.2
65°	8.9	9.2	10.2	10.4	10.4	10.6	10.6	10.4	10.0	9.7	9.4
62.5°	8.9	9.2	10.3	10.4	10.5	10.6	10.6	10.5	10.1	9.8	10.0
60°	8.9	9.3	10.4	10.5	10.6	10.6	10.6	10.6	10.2	10.1	10.5
57.5°	8.9	9.3	10.4	10.5	10.6	10.6	10.6	10.6	10.3	10.4	10.6
55°	8.9	9.3	10.3	10.5	10.6	10.6	10.6	10.6	10.5	10.6	10.6
52.5°	8.9	9.3	10.3	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
50°	8.9	9.3	10.3	10.6	10.6	10.6	10.6	10.7	10.6	10.6	11.4
47.5°	8.9	9.3	10.3	10.6	10.6	10.6	10.6	10.8	10.6	10.6	12.2
45°	8.9	9.3	10.3	10.6	10.6	10.6	10.8	11.0	10.7	11.2	12.9
42.5°	8.9	9.3	10.3	10.6	10.6	10.6	10.9	11.1	10.8	11.7	13.5
40°	8.9	9.3	10.3	10.6	10.6	10.6	11.1	11.2	11.1	12.1	14.0
37.5°	8.9	9.3	10.3	10.6	10.6	10.6	11.4	11.3	11.6	12.7	14.3
35°	8.9	9.3	10.3	10.6	10.6	10.7	11.6	11.5	12.1	13.4	14.4
32.5°	8.9	9.3	10.4	10.6	10.6	10.9	11.8	11.6	12.6	14.3	15.6
30°	8.9	9.3	10.4	10.6	10.6	11.1	11.9	11.8	13.0	15.2	17.2
27.5°	8.9	9.2	10.4	10.6	10.6	11.3	12.0	12.1	13.6	16.2	19.1
25°	8.9	9.2	10.4	10.6	10.6	11.5	12.1	12.5	14.4	17.6	21.5
22.5°	8.9	9.2	10.4	10.6	10.6	11.7	12.2	12.9	15.2	19.4	26.2
20°	8.9	9.2	10.5	10.6	10.6	11.8	12.4	13.2	16.1	21.3	30.8
17.5°	8.9	9.1	10.5	10.6	10.6	12.0	12.5	13.5	17.0	23.3	35.2
15°	8.9	9.1	10.5	10.6	10.6	12.1	12.7	13.9	17.8	25.4	39.4
12.5°	8.9	9.1	10.5	10.6	10.6	12.2	12.9	14.3	19.3	27.6	43.4
10°	8.9	9.0	10.6	10.6	10.6	12.3	13.2	14.6	21.5	31.8	50.3
7.5°	8.9	9.0	10.6	10.6	10.6	12.3	13.4	15.0	23.7	36.4	64.5
5°	8.9	9.0	10.6	10.6	10.6	12.4	13.7	15.3	25.9	41.0	79.2
2.5°	8.9	8.9	10.6	10.6	10.6	12.4	13.9	15.6	28.1	45.4	93.9
0°	8.9	8.9	10.6	10.6	10.6	12.4	14.2	15.9	30.1	49.6	108.0
-2.5°	8.9	8.9	10.6	10.6	10.6	12.4	15.6	21.2	39.9	65.9	131.3
-5°	8.9	8.9	10.6	10.6	10.6	12.4	16.9	26.3	49.4	81.5	153.0
-7.5°	8.9	8.9	10.6	10.6	10.6	12.3	18.1	31.0	58.1	96.1	172.7
-10°	8.9	8.9	10.5	10.6	10.6	12.3	19.2	35.2	66.1	109.4	190.2
-12.5°	8.9	8.9	10.5	10.6	10.6	12.2	20.0	38.8	73.0	121.1	202.3
-15°	8.9	8.9	10.5	10.6	10.6	12.1	20.5	41.6	79.2	130.4	210.8
-17.5°	8.9	8.9	10.4	10.6	10.6	12.0	20.7	44.2	84.7	138.3	216.9
-20°	8.9	8.9	10.4	10.6	10.6	11.8	21.0	46.5	88.8	144.5	220.4



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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°	8.9	8.9	10.3	10.6	10.6	11.7	21.6	47.6	91.2	149.1	221.2
-25°	8.9	8.9	10.3	10.6	10.6	11.9	21.6	47.6	91.9	151.8	219.4
-27.5°	8.9	8.9	10.2	10.6	10.6	12.1	21.1	46.4	90.8	152.6	221.4
-30°	8.9	8.9	10.1	10.6	10.6	12.3	19.8	43.9	88.9	151.0	221.3
-32.5°	8.9	8.9	10.1	10.6	10.8	12.3	17.9	42.0	85.8	146.9	218.7
-35°	8.9	8.9	10.0	10.6	10.9	12.1	17.2	39.7	80.9	140.1	213.7
-37.5°	8.9	8.9	9.9	10.6	11.0	12.0	17.0	36.4	74.1	130.7	197.8
-40°	8.9	8.9	9.8	10.6	11.1	12.2	16.6	32.0	65.3	120.6	179.7
-42.5°	8.9	8.9	9.7	10.6	11.2	12.3	16.0	26.5	57.7	106.2	160.3
-45°	8.9	8.9	9.6	10.7	11.3	12.4	15.1	22.4	50.2	90.1	140.1
-47.5°	8.9	8.9	9.5	10.7	11.3	12.4	14.1	21.1	41.2	73.0	120.7
-50°	8.9	8.9	9.4	10.6	11.4	12.4	13.9	19.5	30.7	60.9	99.9
-52.5°	8.9	8.9	9.3	10.5	11.4	12.4	13.9	17.6	25.6	47.8	78.6
-55°	8.9	8.9	9.1	10.3	11.3	12.4	13.8	15.6	22.8	33.9	62.7
-57.5°	8.9	8.9	9.0	10.2	11.3	12.3	13.6	15.4	19.8	27.8	45.8
-60°	8.9	8.9	8.9	10.0	11.2	12.2	13.5	15.1	17.1	23.9	32.3
-62.5°	8.9	8.9	8.9	9.8	11.0	12.0	13.2	14.7	16.4	19.6	27.2
-65°	8.9	8.9	8.9	9.7	10.8	11.9	13.0	14.2	15.7	17.9	21.9
-67.5°	8.9	8.9	8.9	9.5	10.5	11.6	12.6	13.7	14.8	16.6	19.1
-70°	8.9	8.9	8.9	9.3	10.3	11.3	12.3	13.1	14.1	15.3	17.3
-72.5°	8.9	8.9	8.9	9.2	10.0	11.0	11.9	12.6	13.3	14.3	15.5
-75°	8.9	8.9	8.9	9.2	9.7	10.6	11.5	12.0	12.5	13.2	14.1
-77.5°	8.9	8.9	8.9	9.2	9.6	10.3	11.1	11.5	11.9	12.2	12.7
-80°	8.9	8.9	8.9	9.1	9.5	10.0	10.6	11.0	11.3	11.5	11.8
-82.5°	8.9	8.9	8.9	9.1	9.3	9.7	10.2	10.5	10.6	10.9	11.1
-85°	8.9	8.9	8.9	9.0	9.2	9.4	9.8	10.1	10.3	10.5	10.6
-87.5°	8.9	8.9	8.9	9.0	9.0	9.2	9.3	9.7	10.0	10.3	10.6
-90°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9





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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°	10.2	9.8	9.3	8.9	8.9	8.9	8.9	8.9	8.5	8.0	7.6
87.5°	8.5	8.0	7.6	7.1	7.1	7.1	7.1	7.1	6.7	6.2	5.8
85°	8.5	8.0	7.7	7.4	7.4	7.4	7.3	7.1	6.7	6.2	5.8
82.5°	8.6	8.5	8.4	8.4	8.2	8.0	7.6	7.1	6.7	6.2	5.8
80°	8.8	8.9	8.9	8.9	8.5	8.1	7.6	7.2	6.7	6.3	5.8
77.5°	8.9	8.9	8.9	8.9	8.6	8.1	7.7	7.2	6.8	6.3	5.9
75°	8.9	8.9	8.9	8.9	8.6	8.2	7.8	7.6	7.5	7.4	7.3
72.5°	8.9	8.9	8.9	8.9	8.7	8.5	8.6	8.8	9.1	9.2	9.1
70°	8.9	8.9	9.1	9.0	8.9	9.1	9.8	10.8	11.6	12.5	14.7
67.5°	9.0	9.4	9.5	9.4	9.6	10.4	11.5	16.3	22.1	24.7	26.2
65°	9.7	10.0	10.0	10.1	10.5	13.9	19.1	25.9	33.4	35.2	34.9
62.5°	10.5	10.4	10.4	11.5	14.2	18.9	26.1	33.9	42.3	40.6	35.1
60°	10.6	10.5	11.8	14.5	18.1	24.4	32.6	36.5	39.2	39.0	32.1
57.5°	10.6	11.5	14.0	17.6	23.0	28.3	30.1	32.4	34.3	35.3	27.7
55°	11.1	13.1	16.3	21.3	25.4	24.7	25.7	27.2	28.4	26.9	20.0
52.5°	12.3	14.6	18.8	23.2	24.1	22.2	20.9	22.0	21.0	18.2	15.1
50°	13.3	16.4	20.7	23.6	23.0	20.0	17.3	17.7	16.9	14.7	12.9
47.5°	14.5	18.0	22.3	24.1	21.6	19.6	17.2	16.6	15.8	16.4	15.5
45°	15.6	19.2	23.8	23.3	21.7	21.0	20.0	17.6	20.3	21.3	21.0
42.5°	16.4	20.1	23.7	22.9	24.1	24.8	24.4	25.4	27.0	29.4	30.4
40°	16.9	20.7	24.6	27.2	27.9	30.3	33.6	36.3	37.1	40.7	43.1
37.5°	17.1	22.7	28.2	35.0	34.1	39.2	44.7	54.2	57.1	53.7	60.4
35°	17.1	25.6	37.9	47.2	48.6	50.7	65.0	79.5	88.5	79.7	87.9
32.5°	19.0	29.6	50.2	63.5	73.0	75.3	89.5	119.3	134.7	136.9	137.7
30°	23.4	41.0	65.5	82.8	104.4	121.7	135.4	169.7	194.3	255.2	304.3
27.5°	29.1	54.9	83.8	111.7	144.0	176.2	208.7	235.8	315.2	429.6	557.2
25°	34.7	74.9	104.1	147.3	196.5	243.5	287.2	324.1	479.1	713.5	870.3
22.5°	45.7	98.5	133.4	187.0	254.2	316.1	370.0	467.8	684.5	1031.6	1200.2
20°	63.4	123.5	169.5	234.7	318.9	391.2	454.3	617.8	934.1	1259.5	1468.8
17.5°	82.8	149.7	208.7	294.8	402.5	482.4	547.2	763.8	1176.1	1487.0	1700.2
15°	103.4	176.7	247.5	360.1	494.1	593.2	724.5	990.8	1389.8	1710.4	1971.8
12.5°	124.4	204.0	285.4	429.0	591.4	705.0	940.9	1327.0	1683.1	1962.6	2353.9
10°	145.4	231.1	322.0	499.6	692.1	816.9	1178.7	1659.3	2003.4	2290.9	2740.9
7.5°	186.5	269.3	361.5	569.8	793.6	927.7	1428.1	1982.6	2303.4	2595.9	3070.1
5°	230.7	318.5	422.8	657.2	894.1	1027.7	1660.0	2290.9	2584.6	2879.2	3349.5
2.5°	273.6	365.8	482.0	742.1	988.6	1108.9	1798.5	2462.1	2767.1	3099.3	3587.0
0°	313.5	410.9	538.4	819.9	1075.0	1184.7	1910.8	2606.8	2920.3	3283.3	3795.1
-2.5°	345.6	455.1	591.2	864.1	1105.0	1227.9	1933.8	2660.0	2999.4	3388.2	3895.0
-5°	372.5	496.1	640.0	900.7	1128.2	1265.9	1929.2	2678.9	3065.7	3467.8	3986.0
-7.5°	393.4	533.3	684.1	927.1	1140.3	1284.0	1923.5	2704.2	3138.5	3522.0	4059.7
-10°	405.0	548.6	693.5	923.5	1137.3	1288.0	1881.4	2689.0	3197.9	3561.4	4082.8
-12.5°	392.9	543.7	691.1	911.8	1129.3	1287.2	1790.0	2630.6	3245.4	3588.3	4039.1
-15°	378.6	535.7	681.6	892.0	1117.0	1281.8	1644.3	2527.1	3221.6	3490.1	3911.2
-17.5°	363.1	524.6	664.5	864.2	1100.8	1271.7	1430.9	2264.7	2978.1	3322.3	3772.6
-20°	347.1	510.4	639.2	828.3	1077.8	1222.9	1330.4	1933.0	2630.1	3115.3	3530.4



REPORT NUMBER: P731459 (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°	331.2	493.2	612.2	795.1	994.5	1142.1	1256.2	1594.6	2269.8	2859.2	3168.8
-25°	322.7	467.9	589.6	734.1	905.9	1059.1	1170.1	1290.5	1893.2	2459.5	2849.3
-27.5°	318.7	445.2	556.2	673.2	821.8	971.3	1077.2	1190.7	1521.9	2057.1	2524.4
-30°	311.4	414.1	521.2	618.3	750.3	879.7	983.7	1100.8	1234.0	1666.3	2097.9
-32.5°	294.0	382.5	484.7	578.1	683.4	796.6	911.9	1026.4	1140.5	1297.7	1693.3
-35°	273.6	356.2	448.1	536.8	620.6	729.3	844.4	957.2	1054.0	1154.5	1373.3
-37.5°	257.1	327.7	412.0	496.0	575.0	668.0	774.1	883.6	982.5	1073.3	1198.0
-40°	238.9	297.2	377.9	457.3	531.7	611.7	706.3	805.0	907.0	1013.2	1110.7
-42.5°	219.0	275.2	342.5	419.2	489.0	562.6	638.3	729.6	830.0	942.0	1043.2
-45°	196.3	251.8	307.1	377.6	444.7	512.3	583.2	655.6	754.1	854.6	960.6
-47.5°	172.4	226.5	279.6	335.9	399.8	461.6	526.5	600.4	677.8	769.7	863.2
-50°	147.7	198.9	250.5	301.6	356.2	412.1	469.4	544.1	617.6	689.6	769.9
-52.5°	122.9	170.2	219.4	268.4	317.0	367.3	422.1	487.9	557.3	624.7	691.4
-55°	96.6	140.7	186.7	233.3	279.6	325.4	378.5	436.9	497.1	561.3	623.3
-57.5°	74.4	109.6	152.1	196.5	240.2	284.9	337.1	387.3	442.0	498.7	554.3
-60°	54.2	81.3	115.3	156.4	199.1	242.9	294.5	344.4	391.1	436.4	488.6
-62.5°	35.8	56.9	82.5	113.5	152.3	196.2	242.4	291.6	344.5	385.9	426.7
-65°	29.4	36.3	53.8	77.9	103.6	141.0	183.0	228.5	274.4	315.6	359.2
-67.5°	22.8	29.3	35.3	44.5	66.6	91.4	117.9	155.5	195.4	230.0	265.1
-70°	19.8	22.8	27.9	33.3	38.5	48.7	70.5	93.6	116.5	138.7	167.4
-72.5°	17.5	20.1	22.8	25.7	30.2	34.9	40.0	45.3	58.2	75.4	91.3
-75°	15.5	17.3	19.6	22.0	24.4	26.7	29.3	33.5	37.7	41.7	45.5
-77.5°	13.9	15.3	16.8	18.5	20.0	21.8	23.7	25.7	27.6	29.7	32.0
-80°	12.4	13.2	14.4	15.6	16.4	17.3	18.4	19.7	20.8	21.9	23.2
-82.5°	11.4	11.9	12.5	13.2	13.2	13.1	13.1	13.5	14.3	15.0	15.8
-85°	10.6	10.6	10.8	11.1	11.3	11.4	11.4	11.4	11.2	11.2	11.1
-87.5°	10.4	10.2	10.0	9.9	9.9	10.0	10.0	10.1	9.7	9.3	9.0
-90°	8.5	8.0	7.6	7.1	7.1	7.1	7.1	7.1	6.7	6.2	5.8



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	7.1	7.1	7.1	7.1	7.1	7.6	8.0	8.5	8.9	10.2	11.6
87.5°	5.3	4.9	4.4	4.0	3.5	3.1	2.7	2.2	1.8	1.8	1.8
85°	5.3	4.9	4.4	4.0	3.5	3.1	2.7	2.2	1.8	1.8	1.8
82.5°	5.3	5.1	5.0	4.9	4.8	4.5	4.1	3.7	3.3	3.0	2.6
80°	5.4	5.3	5.3	5.3	5.3	4.9	4.5	4.0	3.5	3.1	2.7
77.5°	5.6	5.6	5.6	5.5	5.4	4.9	4.5	4.0	3.6	3.1	2.7
75°	7.1	6.9	6.5	6.1	5.5	5.0	4.5	4.1	3.6	3.4	3.4
72.5°	8.8	8.3	7.9	8.3	8.2	8.0	7.8	7.3	6.5	6.5	6.7
70°	16.2	17.0	17.1	16.3	14.5	13.0	11.8	10.5	9.0	8.5	8.7
67.5°	25.8	24.6	23.0	21.0	18.0	15.3	13.7	12.2	10.7	10.2	10.4
65°	32.1	26.6	22.9	19.9	17.5	15.3	13.6	12.0	10.3	9.3	9.2
62.5°	29.3	23.0	19.0	16.6	15.0	13.7	11.5	9.8	8.4	7.7	8.0
60°	25.2	18.4	14.3	12.4	10.6	9.0	8.2	7.6	7.3	7.1	7.2
57.5°	20.0	14.0	10.5	9.8	8.9	7.7	7.3	7.4	7.3	7.1	7.1
55°	14.7	12.0	10.6	10.1	9.7	9.2	8.8	8.7	8.5	8.2	8.5
52.5°	11.9	11.9	12.1	11.9	11.5	11.0	10.5	10.5	10.7	11.0	11.5
50°	13.2	13.6	13.9	13.7	13.3	12.8	12.3	12.8	13.6	14.3	14.9
47.5°	15.4	15.9	16.9	15.7	15.9	16.9	16.2	16.4	19.0	20.7	21.8
45°	19.5	22.6	23.3	24.1	24.3	26.1	26.9	27.5	32.6	34.8	34.9
42.5°	31.1	34.0	36.4	38.7	38.3	44.1	51.9	56.2	56.0	55.1	56.0
40°	47.0	50.2	57.4	62.8	71.2	78.7	79.3	72.0	72.9	81.3	81.9
37.5°	70.6	80.4	94.7	110.5	114.8	110.0	112.9	118.2	123.7	131.5	140.5
35°	112.4	145.4	151.9	164.2	172.2	164.3	167.4	181.4	181.5	206.6	220.4
32.5°	199.5	250.1	265.6	254.7	276.0	288.8	249.4	299.0	308.5	334.2	365.7
30°	325.4	430.7	463.3	448.1	505.6	523.7	488.9	588.7	647.4	646.2	794.4
27.5°	618.3	670.9	732.0	825.4	837.4	868.5	1065.4	1217.7	1411.1	1593.9	1831.2
25°	946.0	975.8	1151.0	1266.4	1323.3	1531.5	1823.2	2061.3	2471.5	2854.4	3651.4
22.5°	1247.8	1359.3	1573.0	1757.7	1965.2	2300.3	2702.8	3144.4	4234.5	5575.6	7258.3
20°	1543.9	1690.7	1945.9	2278.2	2609.5	3065.3	3600.3	4999.5	7143.0	10391.6	13902.5
17.5°	1878.2	2019.4	2367.3	2836.5	3340.5	4023.8	5664.9	8338.5	12890.3	19245.5	25376.4
15°	2312.2	2555.1	2940.2	3633.3	4598.1	6208.4	8883.7	15478.1	24565.6	34448.7	45044.4
12.5°	2819.9	3220.3	3847.2	4742.8	6132.1	9936.3	16659.6	27248.7	40828.9	54709.3	72123.9
10°	3311.5	3981.2	4940.4	6351.8	9115.5	15111.2	25127.7	40410.3	61217.9	82679.1	101911.6
7.5°	3743.2	4629.4	5920.0	7898.2	12285.8	20951.0	35360.8	56656.4	82591.7	109112.1	134974.0
5°	4184.1	5237.8	6742.0	9056.3	14219.0	25178.3	43674.2	71529.3	102864.2	134985.2	168739.7
2.5°	4546.0	5748.6	7428.1	10016.4	15361.5	27450.1	48829.5	81888.1	118092.9	154866.9	196868.5
0°	4763.8	6065.4	7767.3	10046.4	16258.8	29239.7	50102.9	85555.0	124522.4	164954.3	208914.0
-2.5°	4770.6	5999.4	7601.9	9951.2	16066.8	28750.5	50191.8	85463.7	124176.6	163116.3	206497.4
-5°	4755.7	5849.0	7354.0	9609.4	14917.4	26198.2	46341.3	79926.5	118057.3	154908.7	194421.4
-7.5°	4732.9	5650.2	7001.8	9062.8	13446.4	23117.5	41906.2	72650.9	108627.2	142952.6	178323.0
-10°	4706.7	5444.4	6677.7	8593.8	12114.0	19453.2	33710.7	61710.0	94712.8	126387.5	155392.3
-12.5°	4684.1	5359.9	6416.6	7947.8	10494.2	16301.1	28460.6	50430.8	77156.6	103902.4	129596.1
-15°	4597.6	5247.9	6203.5	7468.1	9532.4	13593.6	21246.1	36432.6	58378.1	79505.8	99901.9
-17.5°	4420.6	5088.7	5689.8	6674.2	8163.4	10811.6	15825.4	24976.4	39067.2	55582.5	69971.7
-20°	4073.8	4531.7	5030.4	5866.5	7012.5	8406.8	10693.3	15907.6	22607.4	33380.1	40924.6



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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°	3558.8	3944.0	4363.6	4920.6	5726.5	6710.5	7930.6	9858.3	13354.4	17506.4	22095.4
-25°	3089.1	3365.9	3754.7	4233.3	4664.6	5306.5	6161.6	6909.5	8419.6	9641.0	12165.0
-27.5°	2733.1	2963.2	3315.4	3686.5	4004.9	4348.8	4943.8	5472.5	6207.2	6848.7	7874.7
-30°	2475.7	2711.4	2994.5	3275.8	3578.2	3869.8	4136.1	4536.9	4977.6	5396.0	5938.8
-32.5°	2157.9	2529.8	2734.8	2972.7	3241.7	3496.7	3699.8	3953.3	4195.8	4473.0	4770.7
-35°	1825.9	2232.2	2546.8	2729.7	2929.4	3173.0	3381.1	3554.5	3715.2	3887.3	4044.6
-37.5°	1434.8	1883.9	2242.2	2512.8	2695.2	2865.3	3088.5	3255.2	3361.5	3504.1	3611.6
-40°	1233.2	1413.0	1820.3	2188.0	2423.1	2690.9	2898.6	3075.1	3269.7	3421.6	3509.2
-42.5°	1134.9	1239.2	1347.6	1647.9	2015.9	2337.5	2605.2	2895.4	3155.8	3362.8	3555.5
-45°	1059.0	1133.0	1210.2	1309.8	1412.9	1713.8	2043.9	2383.3	2687.1	2971.2	3214.8
-47.5°	957.6	1044.3	1114.8	1177.7	1241.0	1333.4	1432.3	1569.9	1862.0	2158.2	2440.5
-50°	853.2	933.0	1010.8	1084.0	1143.2	1189.8	1227.1	1287.8	1375.9	1463.5	1549.5
-52.5°	754.9	829.0	899.5	970.3	1039.7	1101.3	1155.8	1198.8	1234.1	1264.2	1284.6
-55°	684.6	742.9	797.7	865.3	932.0	993.9	1051.3	1104.0	1152.1	1195.8	1225.9
-57.5°	611.5	668.6	725.4	782.3	837.4	890.6	944.2	996.3	1045.2	1089.7	1119.6
-60°	539.1	587.9	644.3	703.0	757.9	809.2	859.0	905.8	949.3	986.8	1010.9
-62.5°	470.8	516.9	565.6	618.3	674.0	728.3	778.1	825.4	870.2	906.6	929.9
-65°	401.7	440.5	482.1	525.7	570.8	617.0	664.5	712.9	761.5	800.6	826.3
-67.5°	301.8	340.6	381.5	424.1	462.5	497.8	532.0	567.2	602.9	632.5	655.8
-70°	196.3	225.3	253.8	282.9	314.8	347.1	378.1	407.1	434.0	455.5	472.9
-72.5°	106.1	120.2	135.9	158.1	179.4	200.9	222.2	242.2	260.9	275.0	286.0
-75°	49.2	55.6	67.6	78.6	88.8	99.2	109.3	118.5	127.0	133.0	137.5
-77.5°	34.9	37.8	40.6	43.5	46.4	50.3	54.5	58.6	62.7	66.6	70.3
-80°	24.6	26.2	27.8	29.2	30.7	32.9	35.3	37.8	40.2	42.6	45.0
-82.5°	16.5	17.5	18.5	19.5	20.5	21.8	23.1	24.4	25.6	27.6	29.6
-85°	11.1	11.6	12.1	12.6	13.2	14.2	15.3	16.3	17.3	18.7	20.2
-87.5°	8.6	8.6	8.7	8.7	8.7	9.6	10.5	11.4	12.3	13.6	15.0
-90°	5.3	4.9	4.4	4.0	3.5	3.1	2.7	2.2	1.8	1.4	0.9



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	12.9	14.2	15.1	15.9	15.1	14.2	12.9	11.6	10.2	8.9	8.5
87.5°	1.8	1.8	0.9	0.0	0.9	1.8	1.8	1.8	1.8	1.8	2.2
85°	1.8	1.8	0.9	0.0	0.9	1.8	1.8	1.8	1.8	1.8	2.2
82.5°	2.2	1.8	1.8	1.8	1.8	1.8	2.2	2.6	3.0	3.3	3.7
80°	2.2	1.8	1.8	1.8	1.8	1.8	2.2	2.7	3.1	3.5	4.0
77.5°	2.3	1.8	1.8	1.8	1.8	1.8	2.3	2.7	3.1	3.6	4.0
75°	3.4	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.6	4.1
72.5°	6.9	7.0	7.1	7.1	7.1	7.0	6.9	6.7	6.5	6.5	7.3
70°	8.8	8.8	8.9	8.9	8.9	8.8	8.8	8.7	8.5	9.0	10.5
67.5°	10.5	10.5	10.6	10.6	10.6	10.5	10.5	10.4	10.2	10.7	12.2
65°	9.1	9.0	8.9	8.9	8.9	9.0	9.1	9.2	9.3	10.3	12.0
62.5°	8.3	8.8	8.9	8.9	8.9	8.8	8.3	8.0	7.7	8.4	9.8
60°	7.2	7.2	7.1	7.1	7.1	7.2	7.2	7.2	7.1	7.3	7.6
57.5°	7.1	7.1	7.8	8.9	7.8	7.1	7.1	7.1	7.1	7.3	7.4
55°	8.7	8.8	9.5	10.6	9.5	8.8	8.7	8.5	8.2	8.5	8.7
52.5°	11.9	12.2	12.4	12.4	12.4	12.2	11.9	11.5	11.0	10.7	10.5
50°	15.3	15.6	15.8	15.9	15.8	15.6	15.3	14.9	14.3	13.6	12.8
47.5°	22.5	22.7	22.9	23.0	22.9	22.7	22.5	21.8	20.7	19.0	16.4
45°	36.2	36.7	36.9	37.2	36.9	36.7	36.2	34.9	34.8	32.6	27.5
42.5°	58.3	59.2	59.2	58.4	59.2	59.2	58.3	56.0	55.1	56.0	56.2
40°	83.2	83.2	82.2	81.5	82.2	83.2	83.2	81.9	81.3	72.9	72.0
37.5°	144.7	139.5	130.1	125.7	130.1	139.5	144.7	140.5	131.5	123.7	118.2
35°	223.9	227.3	228.2	226.7	228.2	227.3	223.9	220.4	206.6	181.5	181.4
32.5°	374.5	392.5	398.3	409.1	398.3	392.5	374.5	365.7	334.2	308.5	299.0
30°	771.0	765.6	698.5	669.4	698.5	765.6	771.0	794.4	646.2	647.4	588.7
27.5°	2077.1	2316.2	2430.2	2420.9	2430.2	2316.2	2077.1	1831.2	1593.9	1411.1	1217.7
25°	4277.7	4662.1	4917.0	4749.6	4917.0	4662.1	4277.7	3651.4	2854.4	2471.5	2061.3
22.5°	8825.6	9663.4	10119.9	10283.7	10119.9	9663.4	8825.6	7258.3	5575.6	4234.5	3144.4
20°	17686.3	19268.2	20423.5	19458.9	20423.5	19268.2	17686.3	13902.5	10391.6	7143.0	4999.5
17.5°	32834.7	37755.5	42108.6	43469.1	42108.6	37755.5	32834.7	25376.4	19245.5	12890.3	8338.5
15°	55259.3	63569.6	68509.2	68221.3	68509.2	63569.6	55259.3	45044.4	34448.7	24565.6	15478.1
12.5°	85022.7	95278.0	102120.7	100599.1	102120.7	95278.0	85022.7	72123.9	54709.3	40828.9	27248.7
10°	120785.8	136319.2	147605.6	147085.8	147605.6	136319.2	120785.8	101911.6	82679.1	61217.9	40410.3
7.5°	157864.1	183364.4	205497.7	209222.1	205497.7	183364.4	157864.1	134974.0	109112.1	82591.7	56656.4
5°	205679.6	239290.1	261270.5	262526.9	261270.5	239290.1	205679.6	168739.7	134985.2	102864.2	71529.3
2.5°	244466.1	283022.9	301572.5	312811.4	301572.5	283022.9	244466.1	196868.5	154866.9	118092.9	81888.1
0°	262637.5	293982.0	327896.1	343964.5	327896.1	293982.0	262637.5	208914.0	164954.3	124522.4	85555.0
-2.5°	255182.5	288770.4	309119.1	326149.1	309119.1	288770.4	255182.5	206497.4	163116.3	124176.6	85463.7
-5°	238275.2	271555.2	288626.2	290218.8	288626.2	271555.2	238275.2	194421.4	154908.7	118057.3	79926.5
-7.5°	210673.3	238893.1	256815.8	262392.3	256815.8	238893.1	210673.3	178323.0	142952.6	108627.2	72650.9
-10°	181339.8	201634.4	213217.4	215438.1	213217.4	201634.4	181339.8	155392.3	126387.5	94712.8	61710.0
-12.5°	150843.0	167458.2	175450.7	177196.8	175450.7	167458.2	150843.0	129596.1	103902.4	77156.6	50430.8
-15°	117060.4	129562.9	136759.2	138011.5	136759.2	129562.9	117060.4	99901.9	79505.8	58378.1	36432.6
-17.5°	83555.5	93714.8	101004.7	101973.3	101004.7	93714.8	83555.5	69971.7	55582.5	39067.2	24976.4
-20°	51327.9	58240.4	62505.0	61879.6	62505.0	58240.4	51327.9	40924.6	33380.1	22607.4	15907.6



REPORT NUMBER: P731459 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	27634.2	31360.3	33162.6	34093.8	33162.6	31360.3	27634.2	22095.4	17506.4	13354.4	9858.3
-25°	14607.4	16185.4	16995.1	17629.5	16995.1	16185.4	14607.4	12165.0	9641.0	8419.6	6909.5
-27.5°	8691.5	9234.3	9535.6	9701.1	9535.6	9234.3	8691.5	7874.7	6848.7	6207.2	5472.5
-30°	6371.8	6631.7	6769.1	6837.5	6769.1	6631.7	6371.8	5938.8	5396.0	4977.6	4536.9
-32.5°	5009.6	5163.9	5258.9	5293.3	5258.9	5163.9	5009.6	4770.7	4473.0	4195.8	3953.3
-35°	4155.7	4207.3	4225.8	4259.1	4225.8	4207.3	4155.7	4044.6	3887.3	3715.2	3554.5
-37.5°	3693.5	3741.6	3765.1	3784.5	3765.1	3741.6	3693.5	3611.6	3504.1	3361.5	3255.2
-40°	3549.7	3600.7	3652.9	3690.6	3652.9	3600.7	3549.7	3509.2	3421.6	3269.7	3075.1
-42.5°	3639.6	3722.8	3780.1	3788.0	3780.1	3722.8	3639.6	3555.5	3362.8	3155.8	2895.4
-45°	3353.2	3448.1	3499.8	3517.1	3499.8	3448.1	3353.2	3214.8	2971.2	2687.1	2383.3
-47.5°	2690.8	2907.6	3037.0	3065.5	3037.0	2907.6	2690.8	2440.5	2158.2	1862.0	1569.9
-50°	1633.1	1710.4	1752.8	1758.5	1752.8	1710.4	1633.1	1549.5	1463.5	1375.9	1287.8
-52.5°	1300.8	1314.6	1323.2	1328.2	1323.2	1314.6	1300.8	1284.6	1264.2	1234.1	1198.8
-55°	1252.3	1275.6	1288.6	1294.5	1288.6	1275.6	1252.3	1225.9	1195.8	1152.1	1104.0
-57.5°	1146.3	1169.8	1180.2	1183.0	1180.2	1169.8	1146.3	1119.6	1089.7	1045.2	996.3
-60°	1032.9	1052.8	1059.1	1059.0	1059.1	1052.8	1032.9	1010.9	986.8	949.3	905.8
-62.5°	952.2	972.9	983.0	988.2	983.0	972.9	952.2	929.9	906.6	870.2	825.4
-65°	848.7	867.6	875.6	878.4	875.6	867.6	848.7	826.3	800.6	761.5	712.9
-67.5°	676.6	694.6	699.7	699.5	699.7	694.6	676.6	655.8	632.5	602.9	567.2
-70°	487.7	499.7	501.6	499.4	501.6	499.7	487.7	472.9	455.5	434.0	407.1
-72.5°	295.0	301.8	304.4	304.6	304.4	301.8	295.0	286.0	275.0	260.9	242.2
-75°	141.0	143.6	145.7	147.0	145.7	143.6	141.0	137.5	133.0	127.0	118.5
-77.5°	73.9	77.2	78.6	79.7	78.6	77.2	73.9	70.3	66.6	62.7	58.6
-80°	47.2	49.3	49.5	49.6	49.5	49.3	47.2	45.0	42.6	40.2	37.8
-82.5°	31.5	33.4	33.6	33.6	33.6	33.4	31.5	29.6	27.6	25.6	24.4
-85°	21.6	22.9	23.9	24.8	23.9	22.9	21.6	20.2	18.7	17.3	16.3
-87.5°	16.3	17.7	17.7	17.7	17.7	17.7	16.3	15.0	13.6	12.3	11.4
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.9	1.4	1.8	2.2



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	8.0	7.6	7.1	7.1	7.1	7.1	7.1	7.6	8.0	8.5	8.9
87.5°	2.7	3.1	3.5	4.0	4.4	4.9	5.3	5.8	6.2	6.7	7.1
85°	2.7	3.1	3.5	4.0	4.4	4.9	5.3	5.8	6.2	6.7	7.1
82.5°	4.1	4.5	4.8	4.9	5.0	5.1	5.3	5.8	6.2	6.7	7.1
80°	4.5	4.9	5.3	5.3	5.3	5.3	5.4	5.8	6.3	6.7	7.2
77.5°	4.5	4.9	5.4	5.5	5.6	5.6	5.6	5.9	6.3	6.8	7.2
75°	4.5	5.0	5.5	6.1	6.5	6.9	7.1	7.3	7.4	7.5	7.6
72.5°	7.8	8.0	8.2	8.3	7.9	8.3	8.8	9.1	9.2	9.1	8.8
70°	11.8	13.0	14.5	16.3	17.1	17.0	16.2	14.7	12.5	11.6	10.8
67.5°	13.7	15.3	18.0	21.0	23.0	24.6	25.8	26.2	24.7	22.1	16.3
65°	13.6	15.3	17.5	19.9	22.9	26.6	32.1	34.9	35.2	33.4	25.9
62.5°	11.5	13.7	15.0	16.6	19.0	23.0	29.3	35.1	40.6	42.3	33.9
60°	8.2	9.0	10.6	12.4	14.3	18.4	25.2	32.1	39.0	39.2	36.5
57.5°	7.3	7.7	8.9	9.8	10.5	14.0	20.0	27.7	35.3	34.3	32.4
55°	8.8	9.2	9.7	10.1	10.6	12.0	14.7	20.0	26.9	28.4	27.2
52.5°	10.5	11.0	11.5	11.9	12.1	11.9	11.9	15.1	18.2	21.0	22.0
50°	12.3	12.8	13.3	13.7	13.9	13.6	13.2	12.9	14.7	16.9	17.7
47.5°	16.2	16.9	15.9	15.7	16.9	15.9	15.4	15.5	16.4	15.8	16.6
45°	26.9	26.1	24.3	24.1	23.3	22.6	19.5	21.0	21.3	20.3	17.6
42.5°	51.9	44.1	38.3	38.7	36.4	34.0	31.1	30.4	29.4	27.0	25.4
40°	79.3	78.7	71.2	62.8	57.4	50.2	47.0	43.1	40.7	37.1	36.3
37.5°	112.9	110.0	114.8	110.5	94.7	80.4	70.6	60.4	53.7	57.1	54.2
35°	167.4	164.3	172.2	164.2	151.9	145.4	112.4	87.9	79.7	88.5	79.5
32.5°	249.4	288.8	276.0	254.7	265.6	250.1	199.5	137.7	136.9	134.7	119.3
30°	488.9	523.7	505.6	448.1	463.3	430.7	325.4	304.3	255.2	194.3	169.7
27.5°	1065.4	868.5	837.4	825.4	732.0	670.9	618.3	557.2	429.6	315.2	235.8
25°	1823.2	1531.5	1323.3	1266.4	1151.0	975.8	946.0	870.3	713.5	479.1	324.1
22.5°	2702.8	2300.3	1965.2	1757.7	1573.0	1359.3	1247.8	1200.2	1031.6	684.5	467.8
20°	3600.3	3065.3	2609.5	2278.2	1945.9	1690.7	1543.9	1468.8	1259.5	934.1	617.8
17.5°	5664.9	4023.8	3340.5	2836.5	2367.3	2019.4	1878.2	1700.2	1487.0	1176.1	763.8
15°	8883.7	6208.4	4598.1	3633.3	2940.2	2555.1	2312.2	1971.8	1710.4	1389.8	990.8
12.5°	16659.6	9936.3	6132.1	4742.8	3847.2	3220.3	2819.9	2353.9	1962.6	1683.1	1327.0
10°	25127.7	15111.2	9115.5	6351.8	4940.4	3981.2	3311.5	2740.9	2290.9	2003.4	1659.3
7.5°	35360.8	20951.0	12285.8	7898.2	5920.0	4629.4	3743.2	3070.1	2595.9	2303.4	1982.6
5°	43674.2	25178.3	14219.0	9056.3	6742.0	5237.8	4184.1	3349.5	2879.2	2584.6	2290.9
2.5°	48829.5	27450.1	15361.5	10016.4	7428.1	5748.6	4546.0	3587.0	3099.3	2767.1	2462.1
0°	50102.9	29239.7	16258.8	10046.4	7767.3	6065.4	4763.8	3795.1	3283.3	2920.3	2606.8
-2.5°	50191.8	28750.5	16066.8	9951.2	7601.9	5999.4	4770.6	3895.0	3388.2	2999.4	2660.0
-5°	46341.3	26198.2	14917.4	9609.4	7354.0	5849.0	4755.7	3986.0	3467.8	3065.7	2678.9
-7.5°	41906.2	23117.5	13446.4	9062.8	7001.8	5650.2	4732.9	4059.7	3522.0	3138.5	2704.2
-10°	33710.7	19453.2	12114.0	8593.8	6677.7	5444.4	4706.7	4082.8	3561.4	3197.9	2689.0
-12.5°	28460.6	16301.1	10494.2	7947.8	6416.6	5359.9	4684.1	4039.1	3588.3	3245.4	2630.6
-15°	21246.1	13593.6	9532.4	7468.1	6203.5	5247.9	4597.6	3911.2	3490.1	3221.6	2527.1
-17.5°	15825.4	10811.6	8163.4	6674.2	5689.8	5088.7	4420.6	3772.6	3322.3	2978.1	2264.7
-20°	10693.3	8406.8	7012.5	5866.5	5030.4	4531.7	4073.8	3530.4	3115.3	2630.1	1933.0





REPORT NUMBER: P731459 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-3S-CV2

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	7930.6	6710.5	5726.5	4920.6	4363.6	3944.0	3558.8	3168.8	2859.2	2269.8	1594.6
-25°	6161.6	5306.5	4664.6	4233.3	3754.7	3365.9	3089.1	2849.3	2459.5	1893.2	1290.5
-27.5°	4943.8	4348.8	4004.9	3686.5	3315.4	2963.2	2733.1	2524.4	2057.1	1521.9	1190.7
-30°	4136.1	3869.8	3578.2	3275.8	2994.5	2711.4	2475.7	2097.9	1666.3	1234.0	1100.8
-32.5°	3699.8	3496.7	3241.7	2972.7	2734.8	2529.8	2157.9	1693.3	1297.7	1140.5	1026.4
-35°	3381.1	3173.0	2929.4	2729.7	2546.8	2232.2	1825.9	1373.3	1154.5	1054.0	957.2
-37.5°	3088.5	2865.3	2695.2	2512.8	2242.2	1883.9	1434.8	1198.0	1073.3	982.5	883.6
-40°	2898.6	2690.9	2423.1	2188.0	1820.3	1413.0	1233.2	1110.7	1013.2	907.0	805.0
-42.5°	2605.2	2337.5	2015.9	1647.9	1347.6	1239.2	1134.9	1043.2	942.0	830.0	729.6
-45°	2043.9	1713.8	1412.9	1309.8	1210.2	1133.0	1059.0	960.6	854.6	754.1	655.6
-47.5°	1432.3	1333.4	1241.0	1177.7	1114.8	1044.3	957.6	863.2	769.7	677.8	600.4
-50°	1227.1	1189.8	1143.2	1084.0	1010.8	933.0	853.2	769.9	689.6	617.6	544.1
-52.5°	1155.8	1101.3	1039.7	970.3	899.5	829.0	754.9	691.4	624.7	557.3	487.9
-55°	1051.3	993.9	932.0	865.3	797.7	742.9	684.6	623.3	561.3	497.1	436.9
-57.5°	944.2	890.6	837.4	782.3	725.4	668.6	611.5	554.3	498.7	442.0	387.3
-60°	859.0	809.2	757.9	703.0	644.3	587.9	539.1	488.6	436.4	391.1	344.4
-62.5°	778.1	728.3	674.0	618.3	565.6	516.9	470.8	426.7	385.9	344.5	291.6
-65°	664.5	617.0	570.8	525.7	482.1	440.5	401.7	359.2	315.6	274.4	228.5
-67.5°	532.0	497.8	462.5	424.1	381.5	340.6	301.8	265.1	230.0	195.4	155.5
-70°	378.1	347.1	314.8	282.9	253.8	225.3	196.3	167.4	138.7	116.5	93.6
-72.5°	222.2	200.9	179.4	158.1	135.9	120.2	106.1	91.3	75.4	58.2	45.3
-75°	109.3	99.2	88.8	78.6	67.6	55.6	49.2	45.5	41.7	37.7	33.5
-77.5°	54.5	50.3	46.4	43.5	40.6	37.8	34.9	32.0	29.7	27.6	25.7
-80°	35.3	32.9	30.7	29.2	27.8	26.2	24.6	23.2	21.9	20.8	19.7
-82.5°	23.1	21.8	20.5	19.5	18.5	17.5	16.5	15.8	15.0	14.3	13.5
-85°	15.3	14.2	13.2	12.6	12.1	11.6	11.1	11.1	11.2	11.2	11.4
-87.5°	10.5	9.6	8.7	8.7	8.7	8.6	8.6	9.0	9.3	9.7	10.1
-90°	2.7	3.1	3.5	4.0	4.4	4.9	5.3	5.8	6.2	6.7	7.1





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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°	8.9	8.9	8.9	8.9	9.3	9.8	10.2	10.6	10.2	9.8	9.3
87.5°	7.1	7.1	7.1	7.1	7.6	8.0	8.5	8.9	8.9	8.9	8.9
85°	7.3	7.4	7.4	7.4	7.7	8.0	8.5	8.9	8.9	8.9	8.9
82.5°	7.6	8.0	8.2	8.4	8.4	8.5	8.6	8.9	9.0	8.9	8.9
80°	7.6	8.1	8.5	8.9	8.9	8.9	8.8	8.9	9.2	9.2	9.2
77.5°	7.7	8.1	8.6	8.9	8.9	8.9	8.9	9.0	9.4	9.5	9.6
75°	7.8	8.2	8.6	8.9	8.9	8.9	8.9	9.0	9.4	9.9	10.0
72.5°	8.6	8.5	8.7	8.9	8.9	8.9	8.9	9.1	9.5	9.9	10.3
70°	9.8	9.1	8.9	9.0	9.1	8.9	8.9	9.1	9.5	9.9	10.3
67.5°	11.5	10.4	9.6	9.4	9.5	9.4	9.0	9.2	9.6	10.0	10.4
65°	19.1	13.9	10.5	10.1	10.0	10.0	9.7	9.4	9.7	10.0	10.4
62.5°	26.1	18.9	14.2	11.5	10.4	10.4	10.5	10.0	9.8	10.1	10.5
60°	32.6	24.4	18.1	14.5	11.8	10.5	10.6	10.5	10.1	10.2	10.6
57.5°	30.1	28.3	23.0	17.6	14.0	11.5	10.6	10.6	10.4	10.3	10.6
55°	25.7	24.7	25.4	21.3	16.3	13.1	11.1	10.6	10.6	10.5	10.6
52.5°	20.9	22.2	24.1	23.2	18.8	14.6	12.3	10.6	10.6	10.6	10.6
50°	17.3	20.0	23.0	23.6	20.7	16.4	13.3	11.4	10.6	10.6	10.7
47.5°	17.2	19.6	21.6	24.1	22.3	18.0	14.5	12.2	10.6	10.6	10.8
45°	20.0	21.0	21.7	23.3	23.8	19.2	15.6	12.9	11.2	10.7	11.0
42.5°	24.4	24.8	24.1	22.9	23.7	20.1	16.4	13.5	11.7	10.8	11.1
40°	33.6	30.3	27.9	27.2	24.6	20.7	16.9	14.0	12.1	11.1	11.2
37.5°	44.7	39.2	34.1	35.0	28.2	22.7	17.1	14.3	12.7	11.6	11.3
35°	65.0	50.7	48.6	47.2	37.9	25.6	17.1	14.4	13.4	12.1	11.5
32.5°	89.5	75.3	73.0	63.5	50.2	29.6	19.0	15.6	14.3	12.6	11.6
30°	135.4	121.7	104.4	82.8	65.5	41.0	23.4	17.2	15.2	13.0	11.8
27.5°	208.7	176.2	144.0	111.7	83.8	54.9	29.1	19.1	16.2	13.6	12.1
25°	287.2	243.5	196.5	147.3	104.1	74.9	34.7	21.5	17.6	14.4	12.5
22.5°	370.0	316.1	254.2	187.0	133.4	98.5	45.7	26.2	19.4	15.2	12.9
20°	454.3	391.2	318.9	234.7	169.5	123.5	63.4	30.8	21.3	16.1	13.2
17.5°	547.2	482.4	402.5	294.8	208.7	149.7	82.8	35.2	23.3	17.0	13.5
15°	724.5	593.2	494.1	360.1	247.5	176.7	103.4	39.4	25.4	17.8	13.9
12.5°	940.9	705.0	591.4	429.0	285.4	204.0	124.4	43.4	27.6	19.3	14.3
10°	1178.7	816.9	692.1	499.6	322.0	231.1	145.4	50.3	31.8	21.5	14.6
7.5°	1428.1	927.7	793.6	569.8	361.5	269.3	186.5	64.5	36.4	23.7	15.0
5°	1660.0	1027.7	894.1	657.2	422.8	318.5	230.7	79.2	41.0	25.9	15.3
2.5°	1798.5	1108.9	988.6	742.1	482.0	365.8	273.6	93.9	45.4	28.1	15.6
0°	1910.8	1184.7	1075.0	819.9	538.4	410.9	313.5	108.0	49.6	30.1	15.9
-2.5°	1933.8	1227.9	1105.0	864.1	591.2	455.1	345.6	131.3	65.9	39.9	21.2
-5°	1929.2	1265.9	1128.2	900.7	640.0	496.1	372.5	153.0	81.5	49.4	26.3
-7.5°	1923.5	1284.0	1140.3	927.1	684.1	533.3	393.4	172.7	96.1	58.1	31.0
-10°	1881.4	1288.0	1137.3	923.5	693.5	548.6	405.0	190.2	109.4	66.1	35.2
-12.5°	1790.0	1287.2	1129.3	911.8	691.1	543.7	392.9	202.3	121.1	73.0	38.8
-15°	1644.3	1281.8	1117.0	892.0	681.6	535.7	378.6	210.8	130.4	79.2	41.6
-17.5°	1430.9	1271.7	1100.8	864.2	664.5	524.6	363.1	216.9	138.3	84.7	44.2
-20°	1330.4	1222.9	1077.8	828.3	639.2	510.4	347.1	220.4	144.5	88.8	46.5



REPORT NUMBER: P731459 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-3S-CV2

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1256.2	1142.1	994.5	795.1	612.2	493.2	331.2	221.2	149.1	91.2	47.6
-25°	1170.1	1059.1	905.9	734.1	589.6	467.9	322.7	219.4	151.8	91.9	47.6
-27.5°	1077.2	971.3	821.8	673.2	556.2	445.2	318.7	221.4	152.6	90.8	46.4
-30°	983.7	879.7	750.3	618.3	521.2	414.1	311.4	221.3	151.0	88.9	43.9
-32.5°	911.9	796.6	683.4	578.1	484.7	382.5	294.0	218.7	146.9	85.8	42.0
-35°	844.4	729.3	620.6	536.8	448.1	356.2	273.6	213.7	140.1	80.9	39.7
-37.5°	774.1	668.0	575.0	496.0	412.0	327.7	257.1	197.8	130.7	74.1	36.4
-40°	706.3	611.7	531.7	457.3	377.9	297.2	238.9	179.7	120.6	65.3	32.0
-42.5°	638.3	562.6	489.0	419.2	342.5	275.2	219.0	160.3	106.2	57.7	26.5
-45°	583.2	512.3	444.7	377.6	307.1	251.8	196.3	140.1	90.1	50.2	22.4
-47.5°	526.5	461.6	399.8	335.9	279.6	226.5	172.4	120.7	73.0	41.2	21.1
-50°	469.4	412.1	356.2	301.6	250.5	198.9	147.7	99.9	60.9	30.7	19.5
-52.5°	422.1	367.3	317.0	268.4	219.4	170.2	122.9	78.6	47.8	25.6	17.6
-55°	378.5	325.4	279.6	233.3	186.7	140.7	96.6	62.7	33.9	22.8	15.6
-57.5°	337.1	284.9	240.2	196.5	152.1	109.6	74.4	45.8	27.8	19.8	15.4
-60°	294.5	242.9	199.1	156.4	115.3	81.3	54.2	32.3	23.9	17.1	15.1
-62.5°	242.4	196.2	152.3	113.5	82.5	56.9	35.8	27.2	19.6	16.4	14.7
-65°	183.0	141.0	103.6	77.9	53.8	36.3	29.4	21.9	17.9	15.7	14.2
-67.5°	117.9	91.4	66.6	44.5	35.3	29.3	22.8	19.1	16.6	14.8	13.7
-70°	70.5	48.7	38.5	33.3	27.9	22.8	19.8	17.3	15.3	14.1	13.1
-72.5°	40.0	34.9	30.2	25.7	22.8	20.1	17.5	15.5	14.3	13.3	12.6
-75°	29.3	26.7	24.4	22.0	19.6	17.3	15.5	14.1	13.2	12.5	12.0
-77.5°	23.7	21.8	20.0	18.5	16.8	15.3	13.9	12.7	12.2	11.9	11.5
-80°	18.4	17.3	16.4	15.6	14.4	13.2	12.4	11.8	11.5	11.3	11.0
-82.5°	13.1	13.1	13.2	13.2	12.5	11.9	11.4	11.1	10.9	10.6	10.5
-85°	11.4	11.4	11.3	11.1	10.8	10.6	10.6	10.6	10.5	10.3	10.1
-87.5°	10.0	10.0	9.9	9.9	10.0	10.2	10.4	10.6	10.3	10.0	9.7
-90°	7.1	7.1	7.1	7.1	7.6	8.0	8.5	8.9	8.9	8.9	8.9



REPORT NUMBER: P731459 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	8.9	8.9	8.9	8.9	8.9	8.9	8.9
87.5°	8.9	9.0	9.0	9.1	9.0	8.9	8.9
85°	8.9	9.1	9.2	9.2	9.2	9.0	8.9
82.5°	8.9	9.2	9.3	9.4	9.3	9.0	8.9
80°	9.0	9.3	9.5	9.6	9.5	9.0	8.9
77.5°	9.4	9.5	9.7	9.7	9.6	9.1	8.9
75°	9.9	9.7	9.8	9.9	9.7	9.1	8.9
72.5°	10.3	10.0	10.0	10.1	9.9	9.1	8.9
70°	10.6	10.3	10.1	10.3	10.0	9.2	8.9
67.5°	10.6	10.5	10.3	10.3	10.1	9.2	8.9
65°	10.6	10.6	10.4	10.4	10.2	9.2	8.9
62.5°	10.6	10.6	10.5	10.4	10.3	9.2	8.9
60°	10.6	10.6	10.6	10.5	10.4	9.3	8.9
57.5°	10.6	10.6	10.6	10.5	10.4	9.3	8.9
55°	10.6	10.6	10.6	10.5	10.3	9.3	8.9
52.5°	10.6	10.6	10.6	10.6	10.3	9.3	8.9
50°	10.6	10.6	10.6	10.6	10.3	9.3	8.9
47.5°	10.6	10.6	10.6	10.6	10.3	9.3	8.9
45°	10.8	10.6	10.6	10.6	10.3	9.3	8.9
42.5°	10.9	10.6	10.6	10.6	10.3	9.3	8.9
40°	11.1	10.6	10.6	10.6	10.3	9.3	8.9
37.5°	11.4	10.6	10.6	10.6	10.3	9.3	8.9
35°	11.6	10.7	10.6	10.6	10.3	9.3	8.9
32.5°	11.8	10.9	10.6	10.6	10.4	9.3	8.9
30°	11.9	11.1	10.6	10.6	10.4	9.3	8.9
27.5°	12.0	11.3	10.6	10.6	10.4	9.2	8.9
25°	12.1	11.5	10.6	10.6	10.4	9.2	8.9
22.5°	12.2	11.7	10.6	10.6	10.4	9.2	8.9
20°	12.4	11.8	10.6	10.6	10.5	9.2	8.9
17.5°	12.5	12.0	10.6	10.6	10.5	9.1	8.9
15°	12.7	12.1	10.6	10.6	10.5	9.1	8.9
12.5°	12.9	12.2	10.6	10.6	10.5	9.1	8.9
10°	13.2	12.3	10.6	10.6	10.6	9.0	8.9
7.5°	13.4	12.3	10.6	10.6	10.6	9.0	8.9
5°	13.7	12.4	10.6	10.6	10.6	9.0	8.9
2.5°	13.9	12.4	10.6	10.6	10.6	8.9	8.9
0°	14.2	12.4	10.6	10.6	10.6	8.9	8.9
-2.5°	15.6	12.4	10.6	10.6	10.6	8.9	8.9
-5°	16.9	12.4	10.6	10.6	10.6	8.9	8.9
-7.5°	18.1	12.3	10.6	10.6	10.6	8.9	8.9
-10°	19.2	12.3	10.6	10.6	10.5	8.9	8.9
-12.5°	20.0	12.2	10.6	10.6	10.5	8.9	8.9
-15°	20.5	12.1	10.6	10.6	10.5	8.9	8.9
-17.5°	20.7	12.0	10.6	10.6	10.4	8.9	8.9
-20°	21.0	11.8	10.6	10.6	10.4	8.9	8.9



REPORT NUMBER: P731459 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-3S-CV2

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	21.6	11.7	10.6	10.6	10.3	8.9	8.9
-25°	21.6	11.9	10.6	10.6	10.3	8.9	8.9
-27.5°	21.1	12.1	10.6	10.6	10.2	8.9	8.9
-30°	19.8	12.3	10.6	10.6	10.1	8.9	8.9
-32.5°	17.9	12.3	10.8	10.6	10.1	8.9	8.9
-35°	17.2	12.1	10.9	10.6	10.0	8.9	8.9
-37.5°	17.0	12.0	11.0	10.6	9.9	8.9	8.9
-40°	16.6	12.2	11.1	10.6	9.8	8.9	8.9
-42.5°	16.0	12.3	11.2	10.6	9.7	8.9	8.9
-45°	15.1	12.4	11.3	10.7	9.6	8.9	8.9
-47.5°	14.1	12.4	11.3	10.7	9.5	8.9	8.9
-50°	13.9	12.4	11.4	10.6	9.4	8.9	8.9
-52.5°	13.9	12.4	11.4	10.5	9.3	8.9	8.9
-55°	13.8	12.4	11.3	10.3	9.1	8.9	8.9
-57.5°	13.6	12.3	11.3	10.2	9.0	8.9	8.9
-60°	13.5	12.2	11.2	10.0	8.9	8.9	8.9
-62.5°	13.2	12.0	11.0	9.8	8.9	8.9	8.9
-65°	13.0	11.9	10.8	9.7	8.9	8.9	8.9
-67.5°	12.6	11.6	10.5	9.5	8.9	8.9	8.9
-70°	12.3	11.3	10.3	9.3	8.9	8.9	8.9
-72.5°	11.9	11.0	10.0	9.2	8.9	8.9	8.9
-75°	11.5	10.6	9.7	9.2	8.9	8.9	8.9
-77.5°	11.1	10.3	9.6	9.2	8.9	8.9	8.9
-80°	10.6	10.0	9.5	9.1	8.9	8.9	8.9
-82.5°	10.2	9.7	9.3	9.1	8.9	8.9	8.9
-85°	9.8	9.4	9.2	9.0	8.9	8.9	8.9
-87.5°	9.3	9.2	9.0	9.0	8.9	8.9	8.9
-90°	8.9	8.9	8.9	8.9	8.9	8.9	8.9

(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

