

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: P731598 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-2S-CV1**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731598 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-40-70-2S-CV1  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 2S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

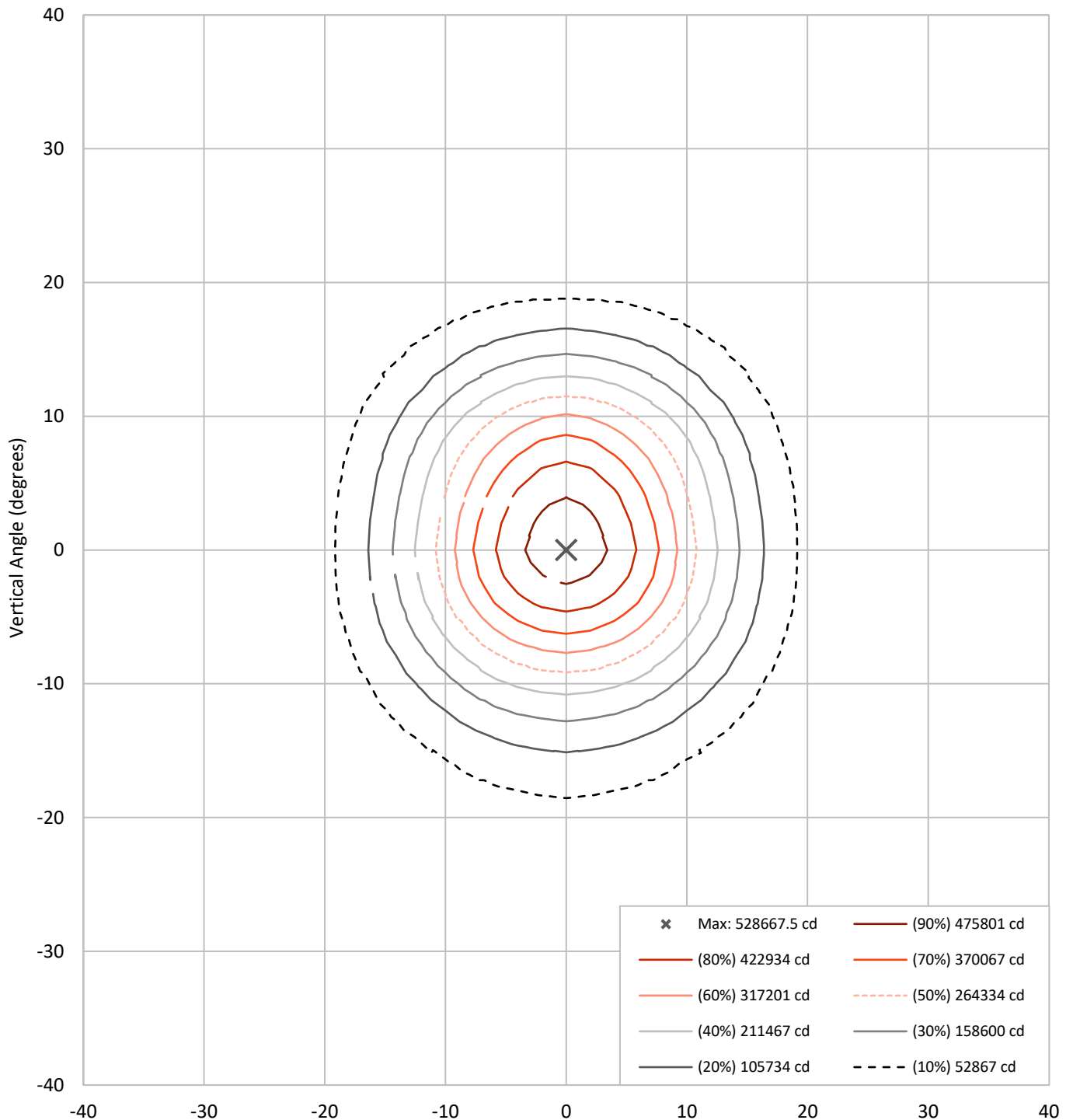
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	85486 lumens	Max Intensity:	528667.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	121.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.6°H x 20.7°V	Field Angle (10%):	38.3°H x 37.3°V
Beam Lumens:	39695.9 lumens	Field Lumens:	72268 lumens
Beam Efficiency:	46.4%	Field Efficiency:	84.5%

Input Watts (W): 703.3  
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-08-0680N-40-70-2S-CV1

### Iso-Candela Plot





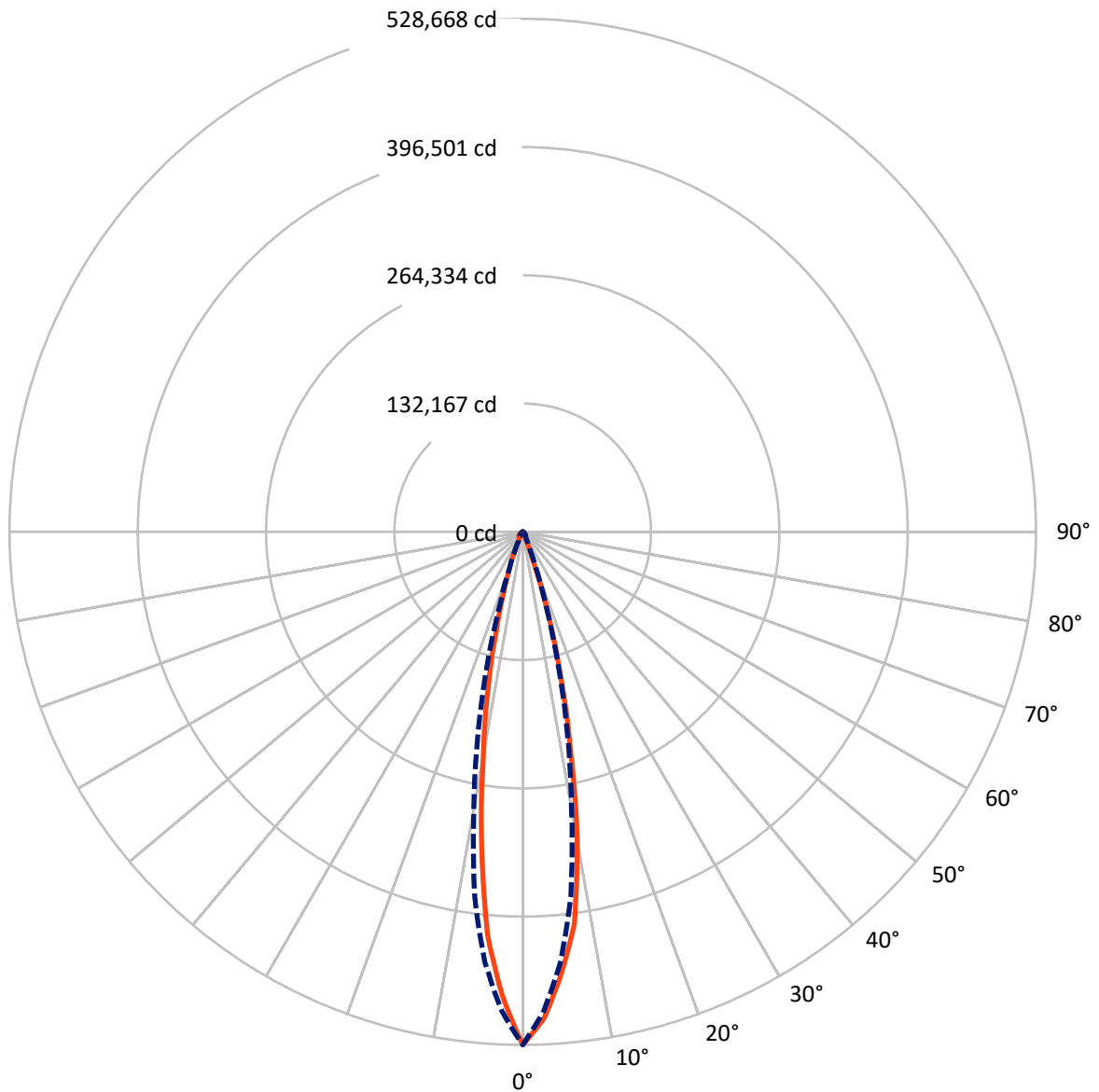
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### Lumen Table

90	0.1	0.3	0.6	0.5	0.5	0.5	0.6	0.3	0.1									
80	0.1	0.3	0.6	0.5	0.5	0.5	0.6	0.3	0.1									
70	0.2	0.1	0.2	0.7	0.8	0.5	0.3	0.2	0.2	0.3	0.5	0.8	0.7	0.2	0.1	0.2		
60		0.1	0.4	0.7	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.7	0.4	0.1			
50	0.2	0.2	0.5	0.5	0.7	1.1	2.0	1.3	1.3	2.0	1.1	0.7	0.5	0.5	0.2	0.2		
40		0.3	1.1	3.0	5.6	8.2	11.4	13.7	13.7	11.4	8.2	5.6	3.0	1.1	0.3			
30	0.3	0.6	5.4	17.3	40.9	62.1	107.4	203.6	203.6	107.4	62.1	40.9	17.3	5.4	0.6	0.3		
20		1.6	11.5	45.7	104.7	195.8	1279.0	3963.3	3963.3	1279.0	195.8	104.7	45.7	11.5	1.6			
10	0.4	2.5	14.9	61.3	124.4	392.3	3759.1	11266.2	11266.2	3759.1	392.3	124.4	61.3	14.9	2.5	0.4		
0		3.1	15.9	61.5	124.1	373.9	3535.5	10246.4	10246.4	3535.5	373.9	124.1	61.5	15.9	3.1			
-10	0.7	3.7	15.3	49.2	104.9	181.9	1040.0	3011.5	3011.5	1040.0	181.9	104.9	49.2	15.3	3.7	0.7		
-20		3.7	14.4	34.9	94.0	140.4	213.3	412.3	412.3	213.3	140.4	94.0	34.9	14.4	3.7			
-30	0.6	3.3	12.4	26.3	65.6	136.3	177.0	197.9	197.9	177.0	136.3	65.6	26.3	12.4	3.3	0.6		
-40		2.3	9.3	21.6	38.8	65.7	112.3	149.7	149.7	112.3	65.7	38.8	21.6	9.3	2.3			
-50	0.4	1.1	5.5	14.3	27.6	41.8	54.5	61.6	61.6	54.5	41.8	27.6	14.3	5.5	1.1	0.4		
-60		0.5	1.9	5.8	12.2	19.5	26.8	31.0	31.0	26.8	19.5	12.2	5.8	1.9	0.5			
-70	0.3	1.4	4.1	9.6	12.9	9.6	4.1	1.4	0.3						0.3			
-80		0.3	1.4	4.1	9.6	12.9	9.6	4.1	1.4	0.3								
-90	0.3	1.4	4.1	9.6	12.9	9.6	4.1	1.4	0.3									

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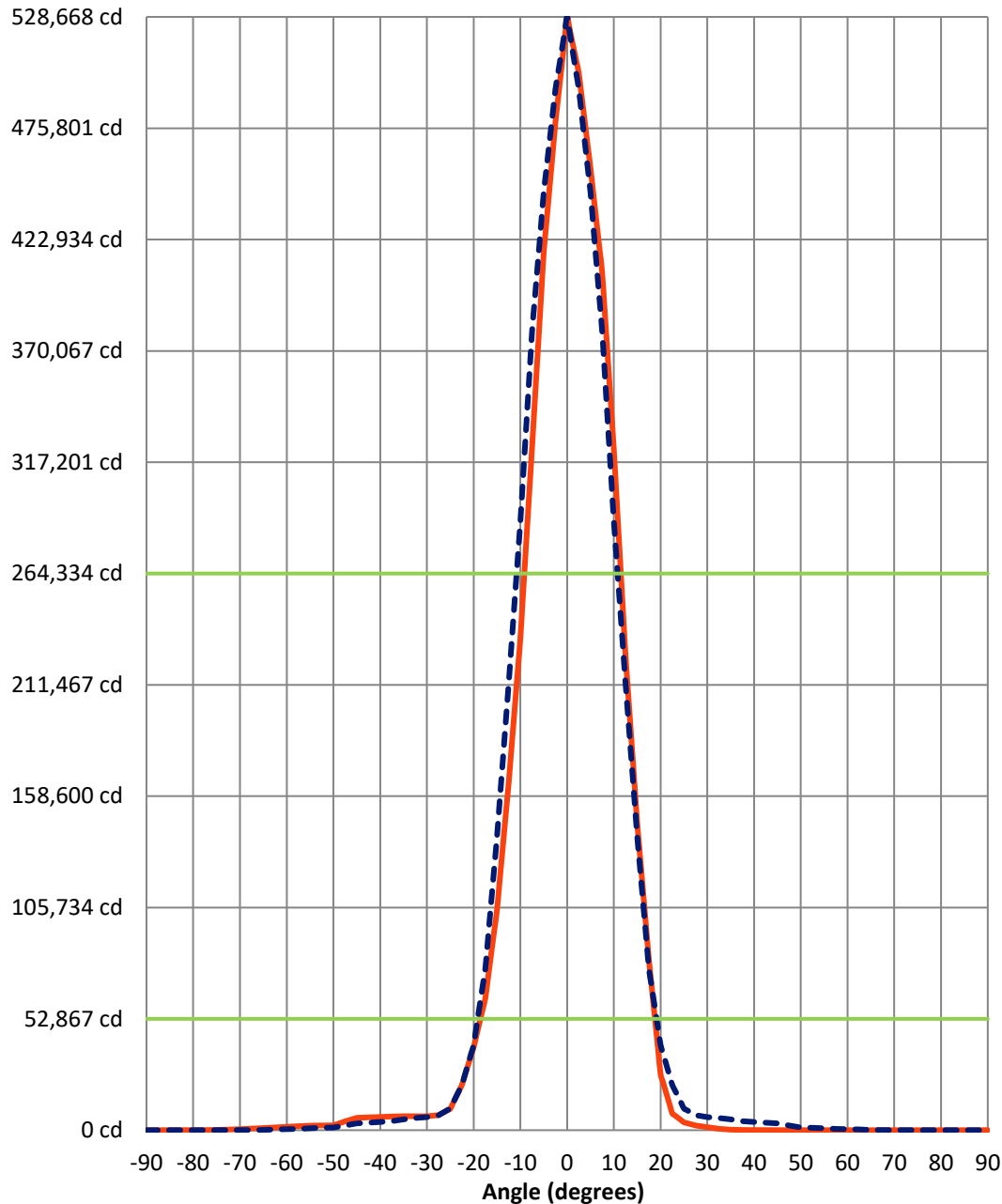
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 21.6°  
 V Angle: 20.7°  
 Lumens: 39695.9  
 Efficiency: 46.4%

**Field:**  
 H Angle: 38.3°  
 V Angle: 37.3°  
 Lumens: 72268  
 Efficiency: 84.5%

**Spill:**  
 Lumens: 13218.1  
 Efficiency: 15.5%

— Vertical Distribution through 0-Deg  
 - - Horizontal Distribution through 0-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	6.3	7.4	8.4	8.9	9.5	10.0	10.5	11.0	11.6	12.1	12.6
87.5°	6.3	6.3	6.3	5.8	5.4	5.1	4.7	4.7	4.6	4.4	4.2
85°	6.3	6.4	6.3	5.9	5.6	5.4	5.3	5.2	4.9	4.6	4.2
82.5°	6.3	6.4	6.3	6.0	5.8	5.8	5.8	5.6	5.3	5.0	4.8
80°	6.3	6.5	6.3	6.1	6.0	6.1	6.3	5.9	5.7	5.6	5.7
77.5°	6.3	6.5	6.3	6.1	6.2	6.3	6.3	6.1	6.0	6.2	6.3
75°	6.3	6.6	6.3	6.2	6.3	6.5	6.4	6.2	6.3	6.3	6.3
72.5°	6.3	6.6	6.4	6.3	6.5	6.6	6.4	6.3	6.3	6.3	6.3
70°	6.3	6.7	6.4	6.3	6.7	6.8	6.5	6.3	6.3	6.3	6.4
67.5°	6.3	6.7	6.4	6.5	6.9	6.9	6.5	6.3	6.3	6.6	6.6
65°	6.3	6.8	6.5	6.8	7.1	7.1	6.6	6.3	6.8	7.0	6.7
62.5°	6.3	6.8	6.5	7.0	7.4	7.1	6.6	6.7	7.2	7.3	6.8
60°	6.3	6.9	6.6	7.2	7.6	7.2	6.7	7.2	7.8	7.4	6.9
57.5°	6.3	7.0	6.8	7.4	7.7	7.2	7.2	7.8	8.0	7.5	7.6
55°	6.3	7.0	6.9	7.6	7.7	7.3	7.7	8.5	8.1	7.8	8.4
52.5°	6.3	7.1	7.1	7.9	7.8	7.4	8.2	8.6	8.2	8.5	9.3
50°	6.3	7.1	7.2	8.1	7.8	7.8	8.8	8.7	8.4	9.3	11.4
47.5°	6.3	7.2	7.4	8.3	7.9	8.3	9.2	8.8	9.1	10.1	13.4
45°	6.3	7.3	7.5	8.3	8.0	8.7	9.3	8.9	9.8	11.5	15.1
42.5°	6.3	7.3	7.7	8.4	8.0	9.1	9.4	9.4	10.6	12.8	17.4
40°	6.3	7.4	7.8	8.4	8.2	9.5	9.5	10.1	11.6	14.0	19.7
37.5°	6.3	7.5	7.9	8.5	8.5	9.8	9.6	10.8	12.8	15.7	21.8
35°	6.3	7.5	8.0	8.5	8.8	10.0	9.7	11.6	14.0	18.1	23.7
32.5°	6.3	7.6	8.0	8.6	9.1	10.1	10.0	12.4	15.1	20.7	26.2
30°	6.3	7.7	8.1	8.7	9.4	10.2	10.6	13.2	16.2	23.3	29.0
27.5°	6.3	7.7	8.2	8.8	9.6	10.3	11.2	14.1	17.6	25.9	31.9
25°	6.3	7.8	8.2	8.9	9.8	10.4	11.9	15.0	19.7	28.4	35.1
22.5°	6.3	7.9	8.3	9.1	10.0	10.5	12.5	15.8	21.8	30.9	40.8
20°	6.3	7.9	8.3	9.2	10.1	10.7	13.1	16.5	23.8	33.4	47.3
17.5°	6.3	8.0	8.3	9.4	10.3	10.9	13.7	17.3	25.7	36.0	54.3
15°	6.3	8.1	8.4	9.5	10.3	11.1	14.2	17.9	27.6	38.5	61.7
12.5°	6.3	8.1	8.4	9.7	10.4	11.3	14.8	18.6	29.1	41.0	69.3
10°	6.3	8.2	8.4	9.9	10.5	11.6	15.2	19.1	30.4	44.1	77.1
7.5°	6.3	8.2	8.4	10.0	10.5	11.8	15.7	19.7	31.5	47.4	84.9
5°	6.3	8.3	8.4	10.2	10.5	12.1	16.1	20.1	32.3	50.7	92.2
2.5°	6.3	8.4	8.4	10.4	10.5	12.4	16.4	20.5	33.0	53.7	98.9
0°	6.3	8.4	8.4	10.4	10.5	12.4	16.4	20.5	33.0	53.7	98.9
-2.5°	6.3	8.4	8.5	10.6	10.9	13.3	18.4	25.8	43.6	74.4	130.5
-5°	6.3	8.5	8.6	10.8	11.2	13.9	19.9	30.5	53.3	91.5	154.9
-7.5°	6.3	8.5	8.7	10.9	11.6	14.5	21.4	34.9	62.4	107.5	177.4
-10°	6.3	8.6	8.8	11.0	11.9	15.1	22.7	38.8	70.5	121.8	197.7
-12.5°	6.3	8.6	8.9	11.0	12.2	15.6	23.9	42.2	77.4	134.2	215.1
-15°	6.3	8.6	8.9	11.1	12.5	16.1	24.8	44.9	84.2	144.7	229.1
-17.5°	6.3	8.6	9.0	11.2	12.8	16.5	25.5	48.0	91.0	153.5	239.8
-20°	6.3	8.6	9.1	11.2	13.0	16.8	26.3	51.0	96.1	160.3	246.7



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-2S-CV1

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.3	8.6	9.2	11.2	13.2	17.1	27.3	52.8	99.4	165.2	249.6
-25°	6.3	8.6	9.3	11.2	13.4	17.3	27.7	53.3	100.6	168.0	248.3
-27.5°	6.3	8.6	9.4	11.2	13.5	17.6	27.5	52.4	99.8	168.9	250.2
-30°	6.3	8.6	9.5	11.2	13.6	17.7	26.6	50.0	98.2	167.7	249.6
-32.5°	6.3	8.6	9.5	11.2	13.7	17.7	25.1	48.5	95.4	163.5	246.3
-35°	6.3	8.6	9.6	11.2	13.9	17.5	24.4	46.6	90.3	156.3	240.1
-37.5°	6.3	8.6	9.7	11.1	13.9	17.4	24.2	43.7	83.0	146.0	225.3
-40°	6.3	8.6	9.8	11.1	14.0	17.4	23.8	39.7	73.4	134.9	206.9
-42.5°	6.3	8.6	9.8	11.0	13.9	17.4	23.2	34.6	65.8	119.6	185.6
-45°	6.3	8.5	9.9	11.0	13.9	17.4	22.4	30.7	58.6	101.9	162.1
-47.5°	6.3	8.5	10.0	10.9	13.8	17.2	21.3	29.5	50.0	82.6	139.9
-50°	6.3	8.5	10.0	10.9	13.7	17.1	21.0	28.0	39.7	70.7	115.4
-52.5°	6.3	8.4	10.1	11.0	13.5	16.8	20.6	26.3	34.9	57.7	90.1
-55°	6.3	8.4	10.1	11.1	13.3	16.5	20.2	24.4	32.3	43.7	73.9
-57.5°	6.3	8.3	10.2	11.1	13.0	16.2	19.8	23.8	29.5	37.8	56.5
-60°	6.3	8.3	10.2	11.1	12.8	15.8	19.2	23.0	26.9	34.2	42.7
-62.5°	6.3	8.2	10.1	11.1	12.7	15.3	18.6	22.1	25.8	30.3	38.2
-65°	6.3	8.1	10.0	11.1	12.5	14.8	17.9	21.1	24.5	28.3	33.3
-67.5°	6.3	8.1	9.8	11.0	12.3	14.3	17.1	20.1	23.2	26.6	30.4
-70°	6.3	8.0	9.7	11.0	12.1	13.9	16.3	19.0	21.8	24.9	28.3
-72.5°	6.3	7.9	9.6	10.7	11.8	13.4	15.5	17.8	20.3	23.0	26.1
-75°	6.3	7.9	9.4	10.5	11.5	12.8	14.6	16.6	18.7	21.1	23.7
-77.5°	6.3	7.8	9.3	10.2	11.2	12.2	13.7	15.5	17.4	19.2	21.3
-80°	6.3	7.7	9.1	10.0	10.9	11.7	12.7	14.3	16.0	17.7	19.4
-82.5°	6.3	7.6	8.9	9.7	10.5	11.3	12.1	13.3	14.7	16.2	17.7
-85°	6.3	7.5	8.8	9.5	10.2	10.9	11.6	12.6	13.6	14.8	16.0
-87.5°	6.3	7.4	8.6	9.2	9.8	10.4	11.0	11.8	12.6	13.4	14.3
-90°	6.3	6.3	6.3	5.8	5.3	4.7	4.2	4.2	4.2	4.2	4.2





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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°	12.6	12.6	12.6	12.6	13.1	13.7	14.2	14.7	15.2	15.7	16.2
87.5°	3.9	3.7	3.5	3.3	3.1	2.8	2.5	2.1	2.1	2.1	2.1
85°	4.2	4.2	4.2	4.2	3.7	3.2	2.6	2.1	2.1	2.1	2.1
82.5°	4.8	4.7	4.5	4.2	3.7	3.2	2.7	2.4	2.4	2.4	2.3
80°	5.6	5.3	4.8	4.3	4.0	3.8	3.7	3.8	3.7	3.4	3.1
77.5°	5.9	5.4	4.9	4.3	4.3	4.6	5.0	5.3	5.2	5.0	4.8
75°	5.9	5.4	5.2	5.2	5.5	5.9	6.3	6.3	6.1	5.9	5.9
72.5°	6.1	5.9	5.9	6.3	6.3	6.3	6.3	6.3	8.0	10.3	11.9
70°	6.2	6.3	6.3	6.3	6.3	6.9	9.8	13.9	18.2	20.5	22.6
67.5°	6.3	6.3	6.3	6.6	8.1	11.2	15.9	24.9	34.6	37.0	36.6
65°	6.3	6.3	7.1	8.5	10.3	18.0	27.9	39.2	47.6	46.3	43.3
62.5°	6.3	7.2	8.6	11.6	17.8	27.1	36.0	44.1	52.1	50.7	43.7
60°	7.2	8.2	11.7	17.9	24.7	31.4	39.8	45.1	50.4	51.6	39.5
57.5°	8.1	10.7	16.4	22.9	28.7	33.6	36.8	41.4	43.2	42.0	30.8
55°	9.9	14.1	20.4	26.5	30.6	29.4	31.4	32.8	32.2	29.8	21.8
52.5°	12.8	17.4	23.6	28.7	29.2	26.5	24.7	25.0	23.0	19.6	17.0
50°	15.4	20.7	26.4	29.3	28.0	23.7	19.7	19.1	17.8	16.1	14.7
47.5°	18.2	23.8	28.4	29.9	25.8	22.1	18.2	16.9	16.1	16.5	15.6
45°	20.9	26.3	30.8	28.3	24.7	21.7	20.1	16.6	18.8	20.1	20.8
42.5°	23.6	28.4	30.4	27.0	25.0	25.0	24.6	23.8	25.0	30.2	33.1
40°	25.5	30.4	30.3	29.6	27.4	31.5	35.4	38.4	38.7	45.5	50.8
37.5°	27.3	31.2	33.0	37.2	35.2	42.8	49.3	75.5	76.6	63.3	85.8
35°	28.9	32.8	43.4	55.2	60.0	58.4	95.3	129.7	138.2	124.3	147.5
32.5°	30.7	35.2	57.5	85.3	110.6	112.3	154.6	209.4	238.2	247.9	260.7
30°	34.0	48.3	79.3	123.3	183.9	233.5	253.7	312.6	365.8	472.3	546.7
27.5°	40.0	65.4	115.6	191.0	284.0	377.7	409.8	450.9	590.2	778.8	965.4
25°	47.4	101.5	157.2	280.6	422.9	526.9	567.8	623.0	886.3	1250.8	1465.2
22.5°	66.3	148.1	219.9	383.9	576.9	672.2	725.7	924.0	1326.8	1811.0	2028.2
20°	100.3	203.5	296.2	470.2	731.5	816.6	876.4	1289.1	1875.4	2335.4	2676.0
17.5°	139.6	259.0	372.1	561.1	798.5	926.4	1051.7	1692.2	2450.3	2854.7	3255.9
15°	182.9	314.3	437.9	642.0	859.1	992.3	1321.1	2148.3	2970.1	3364.6	3764.8
12.5°	228.7	368.7	494.3	713.1	919.0	1053.7	1565.9	2473.5	3247.8	3766.7	4247.0
10°	275.5	421.8	542.5	774.5	977.0	1110.6	1794.9	2749.9	3395.0	3856.7	4400.8
7.5°	307.1	456.4	580.0	826.4	1032.1	1162.8	2002.3	2977.9	3494.9	3901.8	4385.3
5°	332.1	469.5	594.4	863.4	1077.4	1204.1	2165.8	3158.1	3555.7	3908.8	4304.2
2.5°	352.0	478.4	605.5	892.1	1113.6	1230.4	2219.9	3213.6	3567.7	3908.5	4265.3
0°	<b>366.3</b>	<b>483.6</b>	<b>613.3</b>	<b>912.7</b>	<b>1143.0</b>	<b>1251.8</b>	<b>2231.5</b>	<b>3225.8</b>	<b>3558.7</b>	<b>3899.9</b>	<b>4280.9</b>
-2.5°	379.3	498.4	637.4	930.2	1144.3	1254.2	2220.5	3211.5	3598.9	3994.3	4449.3
-5°	387.2	510.4	657.1	939.1	1139.7	1252.8	2169.9	3154.3	3594.7	3995.9	4477.2
-7.5°	391.0	519.4	671.8	938.0	1124.0	1235.8	2035.8	2971.1	3453.4	3831.4	4335.9
-10°	392.3	530.5	681.4	918.1	1094.6	1207.2	1862.7	2753.6	3297.2	3651.3	4140.8
-12.5°	395.8	543.3	687.5	895.7	1065.5	1174.8	1666.9	2506.7	3127.8	3458.1	3918.1
-15°	395.6	553.0	690.5	872.5	1038.4	1138.6	1453.1	2234.1	3001.9	3421.4	3797.3
-17.5°	392.0	559.9	690.8	850.3	1014.9	1098.5	1233.1	1993.3	2897.7	3406.3	3771.0
-20°	385.2	563.9	688.7	830.6	993.1	1081.6	1191.2	1760.1	2620.7	3352.7	3760.6



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	375.5	565.0	686.3	820.6	975.9	1087.0	1181.0	1504.5	2254.7	3263.6	3690.5
-25°	370.2	548.5	683.5	808.9	957.7	1093.5	1170.4	1268.7	1893.1	2815.7	3526.2
-27.5°	367.3	529.3	667.9	789.6	934.4	1091.9	1171.3	1254.5	1587.3	2304.2	3272.3
-30°	358.8	497.7	646.8	764.2	907.0	1061.1	1179.0	1244.3	1337.6	1893.8	2683.8
-32.5°	340.9	464.7	612.0	736.7	871.1	1025.2	1171.1	1244.0	1323.7	1488.7	2126.3
-35°	321.9	438.7	572.1	702.6	827.0	976.6	1119.2	1241.3	1310.3	1395.6	1680.7
-37.5°	306.9	409.4	531.4	660.8	783.5	918.0	1061.8	1196.6	1299.9	1385.9	1494.5
-40°	288.0	377.0	494.1	615.5	735.6	859.8	994.3	1130.1	1260.4	1390.9	1489.9
-42.5°	265.3	351.7	455.3	569.3	684.4	803.8	923.9	1054.8	1206.8	1371.2	1498.2
-45°	238.2	322.4	414.6	520.2	628.4	743.2	859.4	977.6	1137.9	1306.9	1466.1
-47.5°	207.8	288.6	376.5	467.4	569.5	676.5	789.7	913.4	1054.0	1215.4	1388.9
-50°	175.7	250.7	332.7	417.1	508.2	607.1	711.6	836.6	968.9	1110.2	1266.9
-52.5°	145.4	209.0	284.9	365.4	448.0	536.5	634.5	746.4	870.4	1002.0	1133.6
-55°	112.6	169.8	233.2	308.5	387.7	467.5	553.2	652.4	760.2	880.2	998.1
-57.5°	87.3	129.2	183.8	246.7	320.5	397.8	473.7	554.4	648.7	751.0	850.4
-60°	66.0	94.8	135.1	188.4	247.6	317.1	389.9	463.4	539.4	615.4	700.1
-62.5°	46.7	68.9	95.7	130.9	181.5	233.3	294.1	361.8	433.4	498.7	561.2
-65°	40.9	47.4	65.6	90.5	116.6	159.4	205.5	252.8	312.0	370.5	430.0
-67.5°	34.8	40.8	46.7	56.1	78.5	100.9	123.2	163.4	204.5	241.9	281.7
-70°	31.6	34.5	39.4	44.7	49.8	59.1	78.6	97.9	116.6	138.9	170.4
-72.5°	28.8	31.3	34.0	36.9	41.4	45.9	50.3	54.6	65.8	81.1	95.5
-75°	26.0	27.9	30.1	32.5	35.1	37.8	40.8	44.7	48.2	51.6	55.1
-77.5°	23.2	24.9	26.6	28.2	29.9	32.1	34.3	36.7	38.7	40.7	42.8
-80°	20.6	21.8	23.3	24.7	25.9	27.1	28.4	29.8	30.9	32.1	33.4
-82.5°	18.5	19.3	20.2	21.2	22.0	22.6	23.2	24.0	25.1	26.2	27.1
-85°	16.4	16.7	17.1	17.6	18.5	19.2	19.9	20.5	21.0	21.6	22.2
-87.5°	14.5	14.6	14.8	15.0	15.6	16.3	16.9	17.6	17.9	18.1	18.3
-90°	3.7	3.2	2.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	16.7	16.7	16.7	16.7	16.7	17.2	17.8	18.3	18.8	18.8	18.8
87.5°	2.1	2.0	2.0	1.9	1.9	1.5	1.0	0.5	0.0	0.0	0.0
85°	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	2.8	2.7	2.6	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	4.5	4.2	3.7	3.0	2.3	2.1	2.1	2.1	2.1	2.1	2.1
75°	6.1	6.0	5.8	5.2	4.4	4.1	4.2	4.1	3.8	3.9	4.0
72.5°	12.8	12.7	11.9	11.0	9.5	8.7	8.5	8.2	7.6	7.3	7.1
70°	23.2	22.4	21.1	18.7	15.6	13.4	12.3	10.8	9.1	8.3	8.3
67.5°	33.3	29.9	27.0	23.8	19.5	16.0	14.1	12.3	10.6	9.8	9.4
65°	38.5	30.8	25.6	21.6	18.5	15.7	13.5	11.6	9.9	8.9	8.6
62.5°	35.4	25.6	20.2	16.9	14.3	12.4	10.9	9.4	7.9	7.0	7.3
60°	28.8	19.7	15.2	13.3	11.8	10.6	9.2	8.0	7.0	6.4	7.0
57.5°	22.1	15.8	12.5	11.6	10.5	9.1	8.1	7.8	7.6	7.7	8.1
55°	16.5	14.0	12.6	11.2	9.8	8.9	8.5	8.7	8.7	8.4	8.4
52.5°	14.1	12.9	11.5	10.2	9.9	10.0	10.3	9.9	9.7	9.7	9.9
50°	13.8	12.6	11.6	10.5	10.8	10.9	10.6	11.0	11.6	11.8	12.0
47.5°	14.8	14.0	14.7	12.4	12.9	14.5	14.6	14.9	16.7	17.5	17.8
45°	19.4	23.8	23.8	21.9	21.1	30.5	31.2	26.1	42.5	40.8	28.7
42.5°	36.1	38.3	38.4	48.0	65.0	74.1	98.3	136.7	128.1	99.5	60.2
40°	59.7	56.8	69.2	88.8	108.6	131.9	165.0	230.4	219.3	175.6	193.0
37.5°	103.1	103.1	109.1	136.4	144.0	123.9	176.1	170.2	135.6	190.7	201.8
35°	188.6	207.5	176.1	218.4	224.0	206.1	216.1	238.9	206.7	247.3	264.7
32.5°	338.6	373.6	378.2	388.6	419.8	443.6	436.9	492.7	495.5	548.1	620.2
30°	541.3	613.8	689.0	700.8	739.6	802.6	834.4	946.6	1065.6	1143.5	1286.6
27.5°	951.4	969.3	1120.5	1239.6	1192.2	1286.6	1523.0	1660.0	1887.4	2022.9	2166.9
25°	1528.1	1577.4	1790.4	2009.9	2039.1	2125.3	2468.8	2664.8	2899.1	3036.0	3333.0
22.5°	2259.8	2472.6	2707.2	2995.7	3114.1	3316.8	3650.7	3938.1	4426.3	5030.3	6331.9
20°	3075.1	3394.8	3710.0	3963.6	4207.7	4530.1	4936.3	6323.4	7967.0	12919.4	16336.3
17.5°	3772.7	4296.3	4597.6	4843.1	5149.5	5771.5	7383.9	11471.5	19354.3	30380.1	40472.6
15°	4315.2	4804.1	5288.7	5596.3	6075.2	7452.0	10732.6	20757.6	37091.8	55704.1	78226.7
12.5°	4745.3	5151.3	5558.2	6011.0	6895.9	9579.0	17925.5	33407.4	57160.2	87245.8	127174.4
10°	4977.6	5383.8	5776.5	6421.1	8059.1	12944.9	24642.1	45059.1	82339.0	129326.0	180212.1
7.5°	4975.9	5471.2	5956.8	6742.9	9244.7	16966.9	32554.0	60182.3	104278.0	163186.3	228697.6
5°	4973.2	5572.5	6081.3	6968.5	9986.2	19711.6	37465.1	68557.6	122141.8	188620.0	258766.6
2.5°	5021.5	5681.0	6161.7	7117.0	10329.8	21184.4	40189.3	75172.9	134631.0	203096.5	278053.6
0°	5135.0	5777.6	6208.9	7132.0	10288.8	21488.2	40506.2	76773.4	139437.6	212176.0	289094.9
-2.5°	5322.8	5763.7	6182.2	7071.8	10151.6	20861.3	39766.1	75377.2	133868.0	202072.6	276515.8
-5°	5209.7	5565.8	5935.9	6736.3	9478.3	18664.1	35820.5	67450.3	117407.9	178656.0	242426.9
-7.5°	4919.5	5280.4	5623.2	6313.5	8507.8	15402.1	29301.6	54184.5	93204.7	140904.3	190992.3
-10°	4655.0	4978.6	5301.4	5853.6	7269.5	11297.0	20967.8	38347.3	68050.2	104007.3	142284.8
-12.5°	4451.3	4723.2	4971.7	5341.8	6129.2	8378.7	15254.4	28153.2	45697.0	68589.1	96602.6
-15°	4272.0	4483.4	4666.3	5022.3	5607.6	6782.8	9505.1	16874.1	27805.6	42230.1	57526.5
-17.5°	4106.2	4308.9	4525.0	4796.2	5164.7	5728.9	7292.7	10392.4	16698.9	26121.4	35142.6
-20°	4021.4	4269.5	4455.2	4667.4	4980.1	5413.7	5963.2	7500.7	10100.1	15891.0	21756.7



REPORT NUMBER: P731598 (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°	3954.5	4191.1	4403.0	4649.2	4970.4	5312.6	5609.2	6078.7	7305.1	9123.8	12151.8
-25°	3873.0	4106.2	4419.6	4778.0	5054.0	5312.7	5463.2	5561.1	6087.3	6607.2	7766.4
-27.5°	3718.3	4087.9	4548.1	4935.1	5232.0	5392.6	5513.8	5593.1	5908.6	6218.6	6555.8
-30°	3580.1	4146.7	4643.5	5093.5	5352.0	5548.1	5706.2	5849.1	6067.2	6329.7	6452.4
-32.5°	3089.5	4130.7	4683.4	5097.6	5363.2	5594.7	5838.2	5970.4	6162.4	6354.7	6509.6
-35°	2426.7	3484.9	4640.3	4877.5	5141.1	5442.9	5735.4	5923.4	6119.0	6316.9	6499.5
-37.5°	1817.8	2609.3	3546.2	4403.3	4757.0	5065.9	5425.0	5714.6	5970.5	6186.4	6394.4
-40°	1593.4	1808.1	2497.4	3178.0	3900.9	4564.4	4919.4	5307.1	5692.2	5958.9	6196.2
-42.5°	1590.9	1673.1	1743.6	2199.7	2755.9	3326.5	3930.2	4493.0	5119.5	5558.7	5891.9
-45°	1601.0	1665.1	1730.7	1796.8	1857.5	2277.2	2717.6	3164.0	3817.8	4466.9	5028.1
-47.5°	1524.9	1648.3	1727.0	1790.3	1850.4	1909.3	1966.9	2087.3	2505.3	2947.7	3352.1
-50°	1404.0	1531.3	1648.3	1765.6	1834.5	1892.7	1955.3	2024.1	2091.0	2159.0	2204.2
-52.5°	1255.8	1381.1	1502.8	1614.1	1714.4	1812.9	1911.4	1991.4	2062.8	2132.4	2167.1
-55°	1114.0	1226.8	1337.7	1435.7	1533.4	1630.6	1728.6	1826.0	1922.9	2017.9	2066.5
-57.5°	956.6	1066.2	1170.6	1253.0	1336.1	1419.0	1507.9	1599.5	1687.8	1768.7	1811.3
-60°	789.7	883.5	972.9	1053.0	1130.8	1205.7	1281.1	1357.5	1432.2	1498.0	1536.6
-62.5°	623.7	696.1	770.6	840.4	906.7	970.6	1039.4	1105.2	1167.2	1219.6	1256.1
-65°	488.2	542.4	590.1	638.4	687.5	743.6	800.4	854.0	904.3	945.8	976.9
-67.5°	331.6	381.3	425.0	466.1	503.8	542.0	582.7	621.7	658.7	689.4	713.5
-70°	200.5	228.5	253.4	281.1	314.0	346.2	378.4	408.1	435.1	457.3	474.9
-72.5°	109.0	120.8	133.5	153.5	171.8	190.1	208.1	224.7	239.7	253.0	264.6
-75°	58.6	63.7	72.9	81.2	88.5	95.9	103.1	109.7	115.6	120.5	124.5
-77.5°	45.3	47.8	50.0	52.0	53.7	55.3	56.9	58.4	59.9	61.3	62.5
-80°	34.8	36.5	38.2	39.8	41.3	42.4	43.3	44.0	44.6	45.5	46.4
-82.5°	27.9	28.7	29.5	30.3	31.1	31.9	32.8	33.7	34.5	34.8	35.1
-85°	22.8	23.1	23.4	23.7	23.9	24.2	24.5	24.7	24.8	24.9	25.0
-87.5°	18.4	18.5	18.5	18.6	18.6	19.2	19.7	20.3	20.8	20.9	20.9
-90°	2.1	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.3
87.5°	0.0	0.0	1.0	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.5
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	4.1	4.2	4.2	4.2	4.2	4.2	4.1	4.0	3.9	3.8	4.1
72.5°	6.7	6.3	6.3	6.3	6.3	6.3	6.7	7.1	7.3	7.6	8.2
70°	8.3	8.3	8.4	8.4	8.4	8.3	8.3	8.3	8.3	9.1	10.8
67.5°	9.0	8.5	7.4	6.3	7.4	8.5	9.0	9.4	9.8	10.6	12.3
65°	8.5	8.4	7.5	6.3	7.5	8.4	8.5	8.6	8.9	9.9	11.6
62.5°	7.8	8.3	7.5	6.3	7.5	8.3	7.8	7.3	7.0	7.9	9.4
60°	7.6	8.2	8.4	8.4	8.4	8.2	7.6	7.0	6.4	7.0	8.0
57.5°	8.3	8.4	8.4	8.4	8.4	8.4	8.3	8.1	7.7	7.6	7.8
55°	8.4	8.4	9.2	10.5	9.2	8.4	8.4	8.4	8.4	8.7	8.7
52.5°	10.2	10.4	10.5	10.5	10.5	10.4	10.2	9.9	9.7	9.7	9.9
50°	12.3	12.4	12.6	12.6	12.6	12.4	12.3	12.0	11.8	11.6	11.0
47.5°	17.7	17.1	16.6	16.7	16.6	17.1	17.7	17.8	17.5	16.7	14.9
45°	29.2	29.1	29.0	29.3	29.0	29.1	29.2	28.7	40.8	42.5	26.1
42.5°	58.6	52.7	48.2	50.2	48.2	52.7	58.6	60.2	99.5	128.1	136.7
40°	172.2	118.3	68.6	69.1	68.6	118.3	172.2	193.0	175.6	219.3	230.4
37.5°	160.9	129.8	117.1	115.1	117.1	129.8	160.9	201.8	190.7	135.6	170.2
35°	265.6	264.0	252.4	251.2	252.4	264.0	265.6	264.7	247.3	206.7	238.9
32.5°	648.0	674.6	666.0	655.2	666.0	674.6	648.0	620.2	548.1	495.5	492.7
30°	1354.5	1413.5	1401.6	1433.9	1401.6	1413.5	1354.5	1286.6	1143.5	1065.6	946.6
27.5°	2246.7	2285.3	2245.4	2233.6	2245.4	2285.3	2246.7	2166.9	2022.9	1887.4	1660.0
25°	3536.0	3610.8	3645.3	3715.7	3645.3	3610.8	3536.0	3333.0	3036.0	2899.1	2664.8
22.5°	7950.2	8413.4	8175.5	7963.1	8175.5	8413.4	7950.2	6331.9	5030.3	4426.3	3938.1
20°	23331.5	27452.3	27148.6	26606.4	27148.6	27452.3	23331.5	16336.3	12919.4	7967.0	6323.4
17.5°	56259.1	68918.9	76802.9	80951.7	76802.9	68918.9	56259.1	40472.6	30380.1	19354.3	11471.5
15°	104956.0	126249.7	138752.3	145843.2	138752.3	126249.7	104956.0	78226.7	55704.1	37091.8	20757.6
12.5°	165561.0	198935.9	221077.1	225309.7	221077.1	198935.9	165561.0	127174.4	87245.8	57160.2	33407.4
10°	232295.2	275040.9	310294.1	323151.5	310294.1	275040.9	232295.2	180212.1	129326.0	82339.0	45059.1
7.5°	289288.5	343836.8	390648.1	407297.6	390648.1	343836.8	289288.5	228697.6	163186.3	104278.0	60182.3
5°	330731.6	403092.1	445464.2	456897.3	445464.2	403092.1	330731.6	258766.6	188620.0	122141.8	68557.6
2.5°	364466.5	433154.5	478583.2	502005.7	478583.2	433154.5	364466.5	278053.6	203096.5	134631.0	75172.9
0°	379299.1	445308.5	494303.2	528667.5	494303.2	445308.5	379299.1	289094.9	212176.0	139437.6	76773.4
-2.5°	361071.0	428574.8	463427.2	478489.1	463427.2	428574.8	361071.0	276515.8	202072.6	133868.0	75377.2
-5°	306985.9	370620.3	405649.6	416778.3	405649.6	370620.3	306985.9	242426.9	178656.0	117407.9	67450.3
-7.5°	239461.7	283547.8	313769.8	324302.8	313769.8	283547.8	239461.7	190992.3	140904.3	93204.7	54184.5
-10°	180309.5	211926.8	228122.3	233596.2	228122.3	211926.8	180309.5	142284.8	104007.3	68050.2	38347.3
-12.5°	123810.3	147611.8	158080.8	164958.5	158080.8	147611.8	123810.3	96602.6	68589.1	45697.0	28153.2
-15°	76159.0	91675.9	99919.4	104625.3	99919.4	91675.9	76159.0	57526.5	42230.1	27805.6	16874.1
-17.5°	46270.6	54705.2	60168.2	62643.3	60168.2	54705.2	46270.6	35142.6	26121.4	16698.9	10392.4
-20°	28726.0	34341.9	37531.7	39361.1	37531.7	34341.9	28726.0	21756.7	15891.0	10100.1	7500.7



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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°	16137.4	19218.8	20946.6	21548.9	20946.6	19218.8	16137.4	12151.8	9123.8	7305.1	6078.7
-25°	8973.8	9758.1	10101.3	10182.0	10101.3	9758.1	8973.8	7766.4	6607.2	6087.3	5561.1
-27.5°	6848.2	7015.4	7121.4	7153.0	7121.4	7015.4	6848.2	6555.8	6218.6	5908.6	5593.1
-30°	6569.0	6586.5	6615.6	6610.8	6615.6	6586.5	6569.0	6452.4	6329.7	6067.2	5849.1
-32.5°	6618.9	6625.3	6631.1	6621.2	6631.1	6625.3	6618.9	6509.6	6354.7	6162.4	5970.4
-35°	6599.1	6618.0	6632.9	6640.1	6632.9	6618.0	6599.1	6499.5	6316.9	6119.0	5923.4
-37.5°	6477.0	6503.1	6515.9	6504.0	6515.9	6503.1	6477.0	6394.4	6186.4	5970.5	5714.6
-40°	6253.1	6272.0	6273.2	6263.3	6273.2	6272.0	6253.1	6196.2	5958.9	5692.2	5307.1
-42.5°	5993.4	6059.4	6090.6	6091.6	6090.6	6059.4	5993.4	5891.9	5558.7	5119.5	4493.0
-45°	5383.8	5659.8	5823.5	5863.5	5823.5	5659.8	5383.8	5028.1	4466.9	3817.8	3164.0
-47.5°	3675.2	3949.4	4127.7	4195.1	4127.7	3949.4	3675.2	3352.1	2947.7	2505.3	2087.3
-50°	2237.1	2270.3	2284.9	2281.7	2284.9	2270.3	2237.1	2204.2	2159.0	2091.0	2024.1
-52.5°	2193.7	2220.0	2236.2	2244.1	2236.2	2220.0	2193.7	2167.1	2132.4	2062.8	1991.4
-55°	2106.5	2139.4	2156.3	2160.3	2156.3	2139.4	2106.5	2066.5	2017.9	1922.9	1826.0
-57.5°	1847.1	1875.7	1892.2	1898.7	1892.2	1875.7	1847.1	1811.3	1768.7	1687.8	1599.5
-60°	1567.9	1591.8	1602.3	1603.5	1602.3	1591.8	1567.9	1536.6	1498.0	1432.2	1357.5
-62.5°	1286.4	1310.3	1318.1	1316.7	1318.1	1310.3	1286.4	1256.1	1219.6	1167.2	1105.2
-65°	1003.0	1023.7	1027.8	1023.6	1027.8	1023.7	1003.0	976.9	945.8	904.3	854.0
-67.5°	733.8	750.0	754.7	753.6	754.7	750.0	733.8	713.5	689.4	658.7	621.7
-70°	489.0	499.4	499.0	494.0	499.0	499.4	489.0	474.9	457.3	435.1	408.1
-72.5°	274.4	282.3	288.7	293.1	288.7	282.3	274.4	264.6	253.0	239.7	224.7
-75°	127.8	130.3	133.5	136.1	133.5	130.3	127.8	124.5	120.5	115.6	109.7
-77.5°	63.6	64.5	65.8	67.0	65.8	64.5	63.6	62.5	61.3	59.9	58.4
-80°	47.2	47.9	48.1	48.1	48.1	47.9	47.2	46.4	45.5	44.6	44.0
-82.5°	35.3	35.5	35.6	35.6	35.6	35.5	35.3	35.1	34.8	34.5	33.7
-85°	25.0	25.1	26.1	27.2	26.1	25.1	25.0	25.0	24.9	24.8	24.7
-87.5°	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.8	20.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	17.8	17.2	16.7	16.7	16.7	16.7	16.7	16.2	15.7	15.2	14.7
87.5°	1.0	1.5	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.1
85°	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.4	2.4	2.4
80°	2.1	2.1	2.1	2.4	2.6	2.7	2.8	3.1	3.4	3.7	3.8
77.5°	2.1	2.1	2.3	3.0	3.7	4.2	4.5	4.8	5.0	5.2	5.3
75°	4.2	4.1	4.4	5.2	5.8	6.0	6.1	5.9	5.9	6.1	6.3
72.5°	8.5	8.7	9.5	11.0	11.9	12.7	12.8	11.9	10.3	8.0	6.3
70°	12.3	13.4	15.6	18.7	21.1	22.4	23.2	22.6	20.5	18.2	13.9
67.5°	14.1	16.0	19.5	23.8	27.0	29.9	33.3	36.6	37.0	34.6	24.9
65°	13.5	15.7	18.5	21.6	25.6	30.8	38.5	43.3	46.3	47.6	39.2
62.5°	10.9	12.4	14.3	16.9	20.2	25.6	35.4	43.7	50.7	52.1	44.1
60°	9.2	10.6	11.8	13.3	15.2	19.7	28.8	39.5	51.6	50.4	45.1
57.5°	8.1	9.1	10.5	11.6	12.5	15.8	22.1	30.8	42.0	43.2	41.4
55°	8.5	8.9	9.8	11.2	12.6	14.0	16.5	21.8	29.8	32.2	32.8
52.5°	10.3	10.0	9.9	10.2	11.5	12.9	14.1	17.0	19.6	23.0	25.0
50°	10.6	10.9	10.8	10.5	11.6	12.6	13.8	14.7	16.1	17.8	19.1
47.5°	14.6	14.5	12.9	12.4	14.7	14.0	14.8	15.6	16.5	16.1	16.9
45°	31.2	30.5	21.1	21.9	23.8	23.8	19.4	20.8	20.1	18.8	16.6
42.5°	98.3	74.1	65.0	48.0	38.4	38.3	36.1	33.1	30.2	25.0	23.8
40°	165.0	131.9	108.6	88.8	69.2	56.8	59.7	50.8	45.5	38.7	38.4
37.5°	176.1	123.9	144.0	136.4	109.1	103.1	103.1	85.8	63.3	76.6	75.5
35°	216.1	206.1	224.0	218.4	176.1	207.5	188.6	147.5	124.3	138.2	129.7
32.5°	436.9	443.6	419.8	388.6	378.2	373.6	338.6	260.7	247.9	238.2	209.4
30°	834.4	802.6	739.6	700.8	689.0	613.8	541.3	546.7	472.3	365.8	312.6
27.5°	1523.0	1286.6	1192.2	1239.6	1120.5	969.3	951.4	965.4	778.8	590.2	450.9
25°	2468.8	2125.3	2039.1	2009.9	1790.4	1577.4	1528.1	1465.2	1250.8	886.3	623.0
22.5°	3650.7	3316.8	3114.1	2995.7	2707.2	2472.6	2259.8	2028.2	1811.0	1326.8	924.0
20°	4936.3	4530.1	4207.7	3963.6	3710.0	3394.8	3075.1	2676.0	2335.4	1875.4	1289.1
17.5°	7383.9	5771.5	5149.5	4843.1	4597.6	4296.3	3772.7	3255.9	2854.7	2450.3	1692.2
15°	10732.6	7452.0	6075.2	5596.3	5288.7	4804.1	4315.2	3764.8	3364.6	2970.1	2148.3
12.5°	17925.5	9579.0	6895.9	6011.0	5558.2	5151.3	4745.3	4247.0	3766.7	3247.8	2473.5
10°	24642.1	12944.9	8059.1	6421.1	5776.5	5383.8	4977.6	4400.8	3856.7	3395.0	2749.9
7.5°	32554.0	16966.9	9244.7	6742.9	5956.8	5471.2	4975.9	4385.3	3901.8	3494.9	2977.9
5°	37465.1	19711.6	9986.2	6968.5	6081.3	5572.5	4973.2	4304.2	3908.8	3555.7	3158.1
2.5°	40189.3	21184.4	10329.8	7117.0	6161.7	5681.0	5021.5	4265.3	3908.5	3567.7	3213.6
0°	40506.2	21488.2	10288.8	7132.0	6208.9	5777.6	5135.0	4280.9	3899.9	3558.7	3225.8
-2.5°	39766.1	20861.3	10151.6	7071.8	6182.2	5763.7	5322.8	4449.3	3994.3	3598.9	3211.5
-5°	35820.5	18664.1	9478.3	6736.3	5935.9	5565.8	5209.7	4477.2	3995.9	3594.7	3154.3
-7.5°	29301.6	15402.1	8507.8	6313.5	5623.2	5280.4	4919.5	4335.9	3831.4	3453.4	2971.1
-10°	20967.8	11297.0	7269.5	5853.6	5301.4	4978.6	4655.0	4140.8	3651.3	3297.2	2753.6
-12.5°	15254.4	8378.7	6129.2	5341.8	4971.7	4723.2	4451.3	3918.1	3458.1	3127.8	2506.7
-15°	9505.1	6782.8	5607.6	5022.3	4666.3	4483.4	4272.0	3797.3	3421.4	3001.9	2234.1
-17.5°	7292.7	5728.9	5164.7	4796.2	4525.0	4308.9	4106.2	3771.0	3406.3	2897.7	1993.3
-20°	5963.2	5413.7	4980.1	4667.4	4455.2	4269.5	4021.4	3760.6	3352.7	2620.7	1760.1



REPORT NUMBER: P731598 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5609.2	5312.6	4970.4	4649.2	4403.0	4191.1	3954.5	3690.5	3263.6	2254.7	1504.5
-25°	5463.2	5312.7	5054.0	4778.0	4419.6	4106.2	3873.0	3526.2	2815.7	1893.1	1268.7
-27.5°	5513.8	5392.6	5232.0	4935.1	4548.1	4087.9	3718.3	3272.3	2304.2	1587.3	1254.5
-30°	5706.2	5548.1	5352.0	5093.5	4643.5	4146.7	3580.1	2683.8	1893.8	1337.6	1244.3
-32.5°	5838.2	5594.7	5363.2	5097.6	4683.4	4130.7	3089.5	2126.3	1488.7	1323.7	1244.0
-35°	5735.4	5442.9	5141.1	4877.5	4640.3	3484.9	2426.7	1680.7	1395.6	1310.3	1241.3
-37.5°	5425.0	5065.9	4757.0	4403.3	3546.2	2609.3	1817.8	1494.5	1385.9	1299.9	1196.6
-40°	4919.4	4564.4	3900.9	3178.0	2497.4	1808.1	1593.4	1489.9	1390.9	1260.4	1130.1
-42.5°	3930.2	3326.5	2755.9	2199.7	1743.6	1673.1	1590.9	1498.2	1371.2	1206.8	1054.8
-45°	2717.6	2277.2	1857.5	1796.8	1730.7	1665.1	1601.0	1466.1	1306.9	1137.9	977.6
-47.5°	1966.9	1909.3	1850.4	1790.3	1727.0	1648.3	1524.9	1388.9	1215.4	1054.0	913.4
-50°	1955.3	1892.7	1834.5	1765.6	1648.3	1531.3	1404.0	1266.9	1110.2	968.9	836.6
-52.5°	1911.4	1812.9	1714.4	1614.1	1502.8	1381.1	1255.8	1133.6	1002.0	870.4	746.4
-55°	1728.6	1630.6	1533.4	1435.7	1337.7	1226.8	1114.0	998.1	880.2	760.2	652.4
-57.5°	1507.9	1419.0	1336.1	1253.0	1170.6	1066.2	956.6	850.4	751.0	648.7	554.4
-60°	1281.1	1205.7	1130.8	1053.0	972.9	883.5	789.7	700.1	615.4	539.4	463.4
-62.5°	1039.4	970.6	906.7	840.4	770.6	696.1	623.7	561.2	498.7	433.4	361.8
-65°	800.4	743.6	687.5	638.4	590.1	542.4	488.2	430.0	370.5	312.0	252.8
-67.5°	582.7	542.0	503.8	466.1	425.0	381.3	331.6	281.7	241.9	204.5	163.4
-70°	378.4	346.2	314.0	281.1	253.4	228.5	200.5	170.4	138.9	116.6	97.9
-72.5°	208.1	190.1	171.8	153.5	133.5	120.8	109.0	95.5	81.1	65.8	54.6
-75°	103.1	95.9	88.5	81.2	72.9	63.7	58.6	55.1	51.6	48.2	44.7
-77.5°	56.9	55.3	53.7	52.0	50.0	47.8	45.3	42.8	40.7	38.7	36.7
-80°	43.3	42.4	41.3	39.8	38.2	36.5	34.8	33.4	32.1	30.9	29.8
-82.5°	32.8	31.9	31.1	30.3	29.5	28.7	27.9	27.1	26.2	25.1	24.0
-85°	24.5	24.2	23.9	23.7	23.4	23.1	22.8	22.2	21.6	21.0	20.5
-87.5°	19.7	19.2	18.6	18.6	18.5	18.5	18.4	18.3	18.1	17.9	17.6
-90°	0.0	0.0	0.0	0.5	1.1	1.6	2.1	2.1	2.1	2.1	2.1





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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°	14.2	13.7	13.1	12.6	12.6	12.6	12.6	12.6	12.1	11.6	11.0
87.5°	2.5	2.8	3.1	3.3	3.5	3.7	3.9	4.2	4.4	4.6	4.7
85°	2.6	3.2	3.7	4.2	4.2	4.2	4.2	4.2	4.6	4.9	5.2
82.5°	2.7	3.2	3.7	4.2	4.5	4.7	4.8	4.8	5.0	5.3	5.6
80°	3.7	3.8	4.0	4.3	4.8	5.3	5.6	5.7	5.6	5.7	5.9
77.5°	5.0	4.6	4.3	4.3	4.9	5.4	5.9	6.3	6.2	6.0	6.1
75°	6.3	5.9	5.5	5.2	5.2	5.4	5.9	6.3	6.3	6.3	6.2
72.5°	6.3	6.3	6.3	6.3	5.9	5.9	6.1	6.3	6.3	6.3	6.3
70°	9.8	6.9	6.3	6.3	6.3	6.3	6.2	6.4	6.3	6.3	6.3
67.5°	15.9	11.2	8.1	6.6	6.3	6.3	6.3	6.6	6.6	6.3	6.3
65°	27.9	18.0	10.3	8.5	7.1	6.3	6.3	6.7	7.0	6.8	6.3
62.5°	36.0	27.1	17.8	11.6	8.6	7.2	6.3	6.8	7.3	7.2	6.7
60°	39.8	31.4	24.7	17.9	11.7	8.2	7.2	6.9	7.4	7.8	7.2
57.5°	36.8	33.6	28.7	22.9	16.4	10.7	8.1	7.6	7.5	8.0	7.8
55°	31.4	29.4	30.6	26.5	20.4	14.1	9.9	8.4	7.8	8.1	8.5
52.5°	24.7	26.5	29.2	28.7	23.6	17.4	12.8	9.3	8.5	8.2	8.6
50°	19.7	23.7	28.0	29.3	26.4	20.7	15.4	11.4	9.3	8.4	8.7
47.5°	18.2	22.1	25.8	29.9	28.4	23.8	18.2	13.4	10.1	9.1	8.8
45°	20.1	21.7	24.7	28.3	30.8	26.3	20.9	15.1	11.5	9.8	8.9
42.5°	24.6	25.0	25.0	27.0	30.4	28.4	23.6	17.4	12.8	10.6	9.4
40°	35.4	31.5	27.4	29.6	30.3	30.4	25.5	19.7	14.0	11.6	10.1
37.5°	49.3	42.8	35.2	37.2	33.0	31.2	27.3	21.8	15.7	12.8	10.8
35°	95.3	58.4	60.0	55.2	43.4	32.8	28.9	23.7	18.1	14.0	11.6
32.5°	154.6	112.3	110.6	85.3	57.5	35.2	30.7	26.2	20.7	15.1	12.4
30°	253.7	233.5	183.9	123.3	79.3	48.3	34.0	29.0	23.3	16.2	13.2
27.5°	409.8	377.7	284.0	191.0	115.6	65.4	40.0	31.9	25.9	17.6	14.1
25°	567.8	526.9	422.9	280.6	157.2	101.5	47.4	35.1	28.4	19.7	15.0
22.5°	725.7	672.2	576.9	383.9	219.9	148.1	66.3	40.8	30.9	21.8	15.8
20°	876.4	816.6	731.5	470.2	296.2	203.5	100.3	47.3	33.4	23.8	16.5
17.5°	1051.7	926.4	798.5	561.1	372.1	259.0	139.6	54.3	36.0	25.7	17.3
15°	1321.1	992.3	859.1	642.0	437.9	314.3	182.9	61.7	38.5	27.6	17.9
12.5°	1565.9	1053.7	919.0	713.1	494.3	368.7	228.7	69.3	41.0	29.1	18.6
10°	1794.9	1110.6	977.0	774.5	542.5	421.8	275.5	77.1	44.1	30.4	19.1
7.5°	2002.3	1162.8	1032.1	826.4	580.0	456.4	307.1	84.9	47.4	31.5	19.7
5°	2165.8	1204.1	1077.4	863.4	594.4	469.5	332.1	92.2	50.7	32.3	20.1
2.5°	2219.9	1230.4	1113.6	892.1	605.5	478.4	352.0	98.9	53.7	33.0	20.5
0°	2231.5	1251.8	1143.0	912.7	613.3	483.6	366.3	104.7	56.5	33.5	20.9
-2.5°	2220.5	1254.2	1144.3	930.2	637.4	498.4	379.3	130.5	74.4	43.6	25.8
-5°	2169.9	1252.8	1139.7	939.1	657.1	510.4	387.2	154.9	91.5	53.3	30.5
-7.5°	2035.8	1235.8	1124.0	938.0	671.8	519.4	391.0	177.4	107.5	62.4	34.9
-10°	1862.7	1207.2	1094.6	918.1	681.4	530.5	392.3	197.7	121.8	70.5	38.8
-12.5°	1666.9	1174.8	1065.5	895.7	687.5	543.3	395.8	215.1	134.2	77.4	42.2
-15°	1453.1	1138.6	1038.4	872.5	690.5	553.0	395.6	229.1	144.7	84.2	44.9
-17.5°	1233.1	1098.5	1014.9	850.3	690.8	559.9	392.0	239.8	153.5	91.0	48.0
-20°	1191.2	1081.6	993.1	830.6	688.7	563.9	385.2	246.7	160.3	96.1	51.0



REPORT NUMBER: P731598 (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°	1181.0	1087.0	975.9	820.6	686.3	565.0	375.5	249.6	165.2	99.4	52.8
-25°	1170.4	1093.5	957.7	808.9	683.5	548.5	370.2	248.3	168.0	100.6	53.3
-27.5°	1171.3	1091.9	934.4	789.6	667.9	529.3	367.3	250.2	168.9	99.8	52.4
-30°	1179.0	1061.1	907.0	764.2	646.8	497.7	358.8	249.6	167.7	98.2	50.0
-32.5°	1171.1	1025.2	871.1	736.7	612.0	464.7	340.9	246.3	163.5	95.4	48.5
-35°	1119.2	976.6	827.0	702.6	572.1	438.7	321.9	240.1	156.3	90.3	46.6
-37.5°	1061.8	918.0	783.5	660.8	531.4	409.4	306.9	225.3	146.0	83.0	43.7
-40°	994.3	859.8	735.6	615.5	494.1	377.0	288.0	206.9	134.9	73.4	39.7
-42.5°	923.9	803.8	684.4	569.3	455.3	351.7	265.3	185.6	119.6	65.8	34.6
-45°	859.4	743.2	628.4	520.2	414.6	322.4	238.2	162.1	101.9	58.6	30.7
-47.5°	789.7	676.5	569.5	467.4	376.5	288.6	207.8	139.9	82.6	50.0	29.5
-50°	711.6	607.1	508.2	417.1	332.7	250.7	175.7	115.4	70.7	39.7	28.0
-52.5°	634.5	536.5	448.0	365.4	284.9	209.0	145.4	90.1	57.7	34.9	26.3
-55°	553.2	467.5	387.7	308.5	233.2	169.8	112.6	73.9	43.7	32.3	24.4
-57.5°	473.7	397.8	320.5	246.7	183.8	129.2	87.3	56.5	37.8	29.5	23.8
-60°	389.9	317.1	247.6	188.4	135.1	94.8	66.0	42.7	34.2	26.9	23.0
-62.5°	294.1	233.3	181.5	130.9	95.7	68.9	46.7	38.2	30.3	25.8	22.1
-65°	205.5	159.4	116.6	90.5	65.6	47.4	40.9	33.3	28.3	24.5	21.1
-67.5°	123.2	100.9	78.5	56.1	46.7	40.8	34.8	30.4	26.6	23.2	20.1
-70°	78.6	59.1	49.8	44.7	39.4	34.5	31.6	28.3	24.9	21.8	19.0
-72.5°	50.3	45.9	41.4	36.9	34.0	31.3	28.8	26.1	23.0	20.3	17.8
-75°	40.8	37.8	35.1	32.5	30.1	27.9	26.0	23.7	21.1	18.7	16.6
-77.5°	34.3	32.1	29.9	28.2	26.6	24.9	23.2	21.3	19.2	17.4	15.5
-80°	28.4	27.1	25.9	24.7	23.3	21.8	20.6	19.4	17.7	16.0	14.3
-82.5°	23.2	22.6	22.0	21.2	20.2	19.3	18.5	17.7	16.2	14.7	13.3
-85°	19.9	19.2	18.5	17.6	17.1	16.7	16.4	16.0	14.8	13.6	12.6
-87.5°	16.9	16.3	15.6	15.0	14.8	14.6	14.5	14.3	13.4	12.6	11.8
-90°	2.1	2.1	2.1	2.1	2.6	3.2	3.7	4.2	4.2	4.2	4.2



REPORT NUMBER: P731598 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	10.5	10.0	9.5	8.9	8.4	7.4	6.3
87.5°	4.7	5.1	5.4	5.8	6.3	6.3	6.3
85°	5.3	5.4	5.6	5.9	6.3	6.4	6.3
82.5°	5.8	5.8	5.8	6.0	6.3	6.4	6.3
80°	6.3	6.1	6.0	6.1	6.3	6.5	6.3
77.5°	6.3	6.3	6.2	6.1	6.3	6.5	6.3
75°	6.4	6.5	6.3	6.2	6.3	6.6	6.3
72.5°	6.4	6.6	6.5	6.3	6.4	6.6	6.3
70°	6.5	6.8	6.7	6.3	6.4	6.7	6.3
67.5°	6.5	6.9	6.9	6.5	6.4	6.7	6.3
65°	6.6	7.1	7.1	6.8	6.5	6.8	6.3
62.5°	6.6	7.1	7.4	7.0	6.5	6.8	6.3
60°	6.7	7.2	7.6	7.2	6.6	6.9	6.3
57.5°	7.2	7.2	7.7	7.4	6.8	7.0	6.3
55°	7.7	7.3	7.7	7.6	6.9	7.0	6.3
52.5°	8.2	7.4	7.8	7.9	7.1	7.1	6.3
50°	8.8	7.8	7.8	8.1	7.2	7.1	6.3
47.5°	9.2	8.3	7.9	8.3	7.4	7.2	6.3
45°	9.3	8.7	8.0	8.3	7.5	7.3	6.3
42.5°	9.4	9.1	8.0	8.4	7.7	7.3	6.3
40°	9.5	9.5	8.2	8.4	7.8	7.4	6.3
37.5°	9.6	9.8	8.5	8.5	7.9	7.5	6.3
35°	9.7	10.0	8.8	8.5	8.0	7.5	6.3
32.5°	10.0	10.1	9.1	8.6	8.0	7.6	6.3
30°	10.6	10.2	9.4	8.7	8.1	7.7	6.3
27.5°	11.2	10.3	9.6	8.8	8.2	7.7	6.3
25°	11.9	10.4	9.8	8.9	8.2	7.8	6.3
22.5°	12.5	10.5	10.0	9.1	8.3	7.9	6.3
20°	13.1	10.7	10.1	9.2	8.3	7.9	6.3
17.5°	13.7	10.9	10.3	9.4	8.3	8.0	6.3
15°	14.2	11.1	10.3	9.5	8.4	8.1	6.3
12.5°	14.8	11.3	10.4	9.7	8.4	8.1	6.3
10°	15.2	11.6	10.5	9.9	8.4	8.2	6.3
7.5°	15.7	11.8	10.5	10.0	8.4	8.2	6.3
5°	16.1	12.1	10.5	10.2	8.4	8.3	6.3
2.5°	16.4	12.4	10.5	10.4	8.4	8.4	6.3
0°	16.7	12.6	10.5	10.5	8.4	8.4	6.3
-2.5°	18.4	13.3	10.9	10.6	8.5	8.4	6.3
-5°	19.9	13.9	11.2	10.8	8.6	8.5	6.3
-7.5°	21.4	14.5	11.6	10.9	8.7	8.5	6.3
-10°	22.7	15.1	11.9	11.0	8.8	8.6	6.3
-12.5°	23.9	15.6	12.2	11.0	8.9	8.6	6.3
-15°	24.8	16.1	12.5	11.1	8.9	8.6	6.3
-17.5°	25.5	16.5	12.8	11.2	9.0	8.6	6.3
-20°	26.3	16.8	13.0	11.2	9.1	8.6	6.3



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-2S-CV1

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	27.3	17.1	13.2	11.2	9.2	8.6	6.3
-25°	27.7	17.3	13.4	11.2	9.3	8.6	6.3
-27.5°	27.5	17.6	13.5	11.2	9.4	8.6	6.3
-30°	26.6	17.7	13.6	11.2	9.5	8.6	6.3
-32.5°	25.1	17.7	13.7	11.2	9.5	8.6	6.3
-35°	24.4	17.5	13.9	11.2	9.6	8.6	6.3
-37.5°	24.2	17.4	13.9	11.1	9.7	8.6	6.3
-40°	23.8	17.4	14.0	11.1	9.8	8.6	6.3
-42.5°	23.2	17.4	13.9	11.0	9.8	8.6	6.3
-45°	22.4	17.4	13.9	11.0	9.9	8.5	6.3
-47.5°	21.3	17.2	13.8	10.9	10.0	8.5	6.3
-50°	21.0	17.1	13.7	10.9	10.0	8.5	6.3
-52.5°	20.6	16.8	13.5	11.0	10.1	8.4	6.3
-55°	20.2	16.5	13.3	11.1	10.1	8.4	6.3
-57.5°	19.8	16.2	13.0	11.1	10.2	8.3	6.3
-60°	19.2	15.8	12.8	11.1	10.2	8.3	6.3
-62.5°	18.6	15.3	12.7	11.1	10.1	8.2	6.3
-65°	17.9	14.8	12.5	11.1	10.0	8.1	6.3
-67.5°	17.1	14.3	12.3	11.0	9.8	8.1	6.3
-70°	16.3	13.9	12.1	11.0	9.7	8.0	6.3
-72.5°	15.5	13.4	11.8	10.7	9.6	7.9	6.3
-75°	14.6	12.8	11.5	10.5	9.4	7.9	6.3
-77.5°	13.7	12.2	11.2	10.2	9.3	7.8	6.3
-80°	12.7	11.7	10.9	10.0	9.1	7.7	6.3
-82.5°	12.1	11.3	10.5	9.7	8.9	7.6	6.3
-85°	11.6	10.9	10.2	9.5	8.8	7.5	6.3
-87.5°	11.0	10.4	9.8	9.2	8.6	7.4	6.3
-90°	4.2	4.7	5.3	5.8	6.3	6.3	6.3

(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

