

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: P731451 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-70-1S-CV2**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731451 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0530N-40-70-1S-CV2  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 1S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

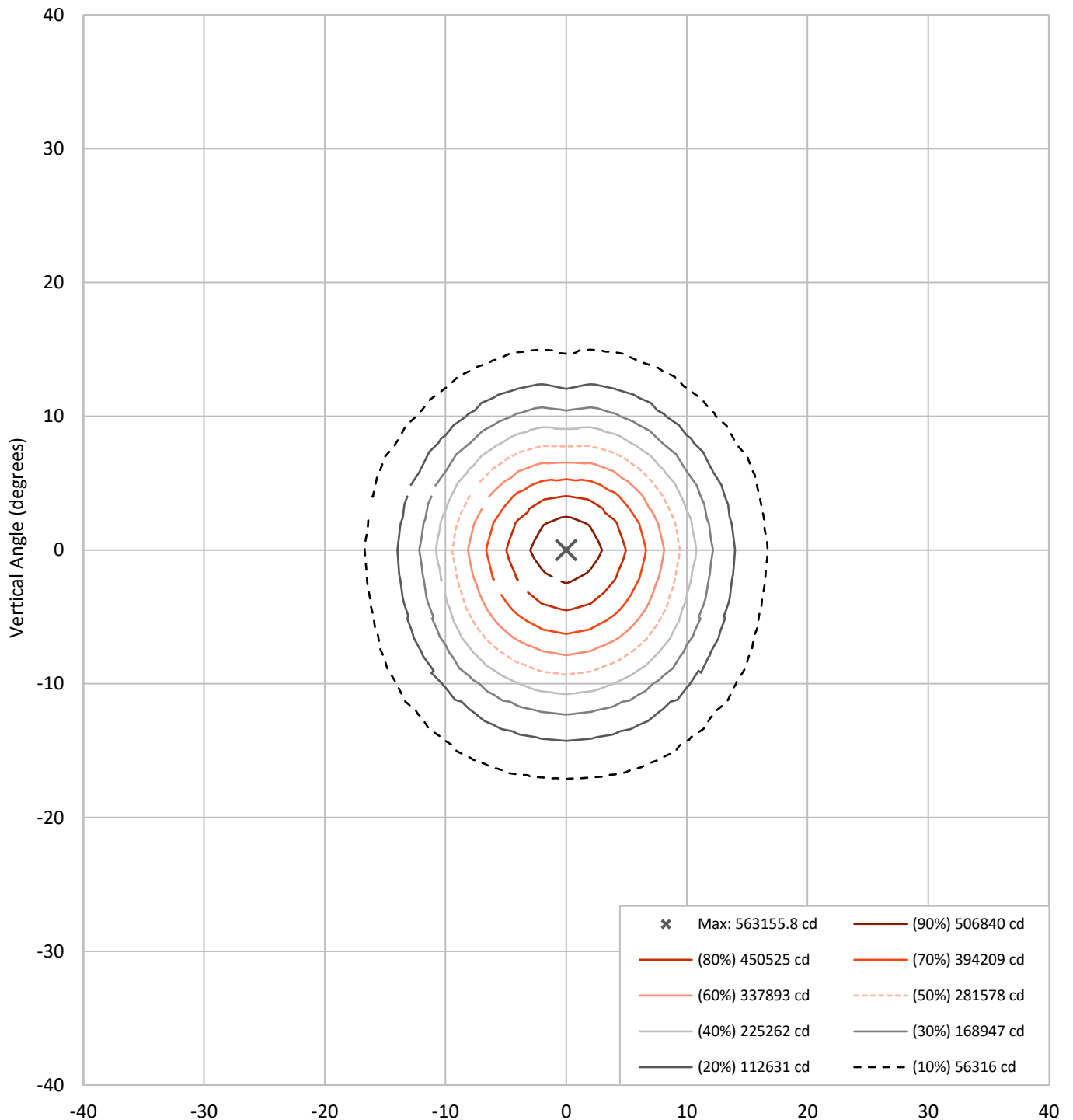
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	64927 lumens	Max Intensity:	563155.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	112.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.9°H x 17.1°V	Field Angle (10%):	33.2°H x 31.5°V
Beam Lumens:	29906.9 lumens	Field Lumens:	54973.4 lumens
Beam Efficiency:	46.1%	Field Efficiency:	84.7%

Input Watts (W): 577.1  
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-40-70-1S-CV2

### Iso-Candela Plot





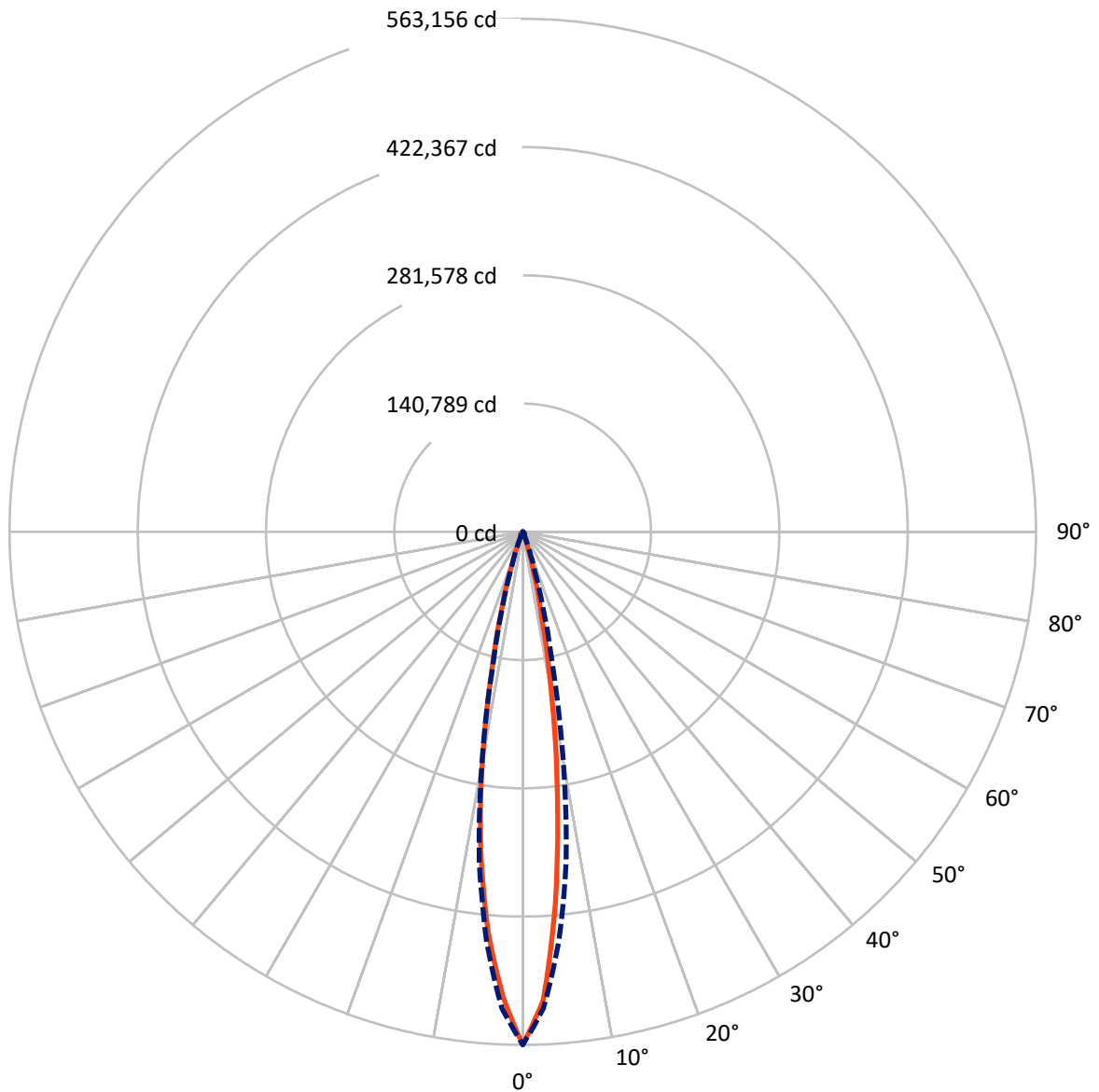
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### Lumen Table

90	0.1		0.4		0.5		0.5		0.5		0.5		0.4		0.1	
80	0.1		0.4		0.5		0.5		0.5		0.5		0.4		0.1	
70	0.2	0.1	0.1	0.5	0.6	0.4	0.2	0.2	0.2	0.2	0.4	0.6	0.5	0.1	0.1	0.2
60		0.1	0.3	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.3	0.1	
50	0.2	0.1	0.4	0.4	0.5	0.7	0.9	1.1	1.1	0.9	0.7	0.5	0.4	0.4	0.1	0.2
40		0.2	0.7	1.4	3.1	4.9	5.2	6.0	6.0	5.2	4.9	3.1	1.4	0.7	0.2	
30	0.2	0.4	2.3	7.9	20.9	25.5	33.7	62.8	62.8	33.7	25.5	20.9	7.9	2.3	0.4	0.2
20		0.8	5.0	20.5	44.7	62.8	428.7	1724.1	1724.1	428.7	62.8	44.7	20.5	5.0	0.8	
10	0.3	1.5	8.6	39.5	67.5	156.4	2240.2	9667.8	9667.8	2240.2	156.4	67.5	39.5	8.6	1.5	0.3
0		2.4	11.4	46.6	78.0	155.2	2430.4	10347.2	10347.2	2430.4	155.2	78.0	46.6	11.4	2.4	
-10	0.4	2.8	11.7	43.8	83.0	97.5	704.9	2669.4	2669.4	704.9	97.5	83.0	43.8	11.7	2.8	0.4
-20		2.6	10.2	24.2	63.3	78.5	95.7	177.1	177.1	95.7	78.5	63.3	24.2	10.2	2.6	
-30	0.4	2.2	7.7	14.2	35.2	66.9	80.0	82.9	82.9	80.0	66.9	35.2	14.2	7.7	2.2	0.4
-40		1.4	5.3	11.2	18.0	32.7	59.8	82.5	82.5	59.8	32.7	18.0	11.2	5.3	1.4	
-50	0.2	0.7	3.0	7.5	13.8	19.7	24.5	27.4	27.4	24.5	19.7	13.8	7.5	3.0	0.7	0.2
-60		0.3	1.0	3.5	7.3	12.0	16.8	19.8	19.8	16.8	12.0	7.3	3.5	1.0	0.3	
-70	0.2	0.7	3.0	7.5	13.8	19.7	24.5	27.4	27.4	24.5	19.7	13.8	7.5	3.0	0.7	0.2
-80		0.3	1.0	3.5	7.3	12.0	16.8	19.8	19.8	16.8	12.0	7.3	3.5	1.0	0.3	
-90	0.2		0.8		2.7		6.5		9.7		6.5		2.7		0.8	

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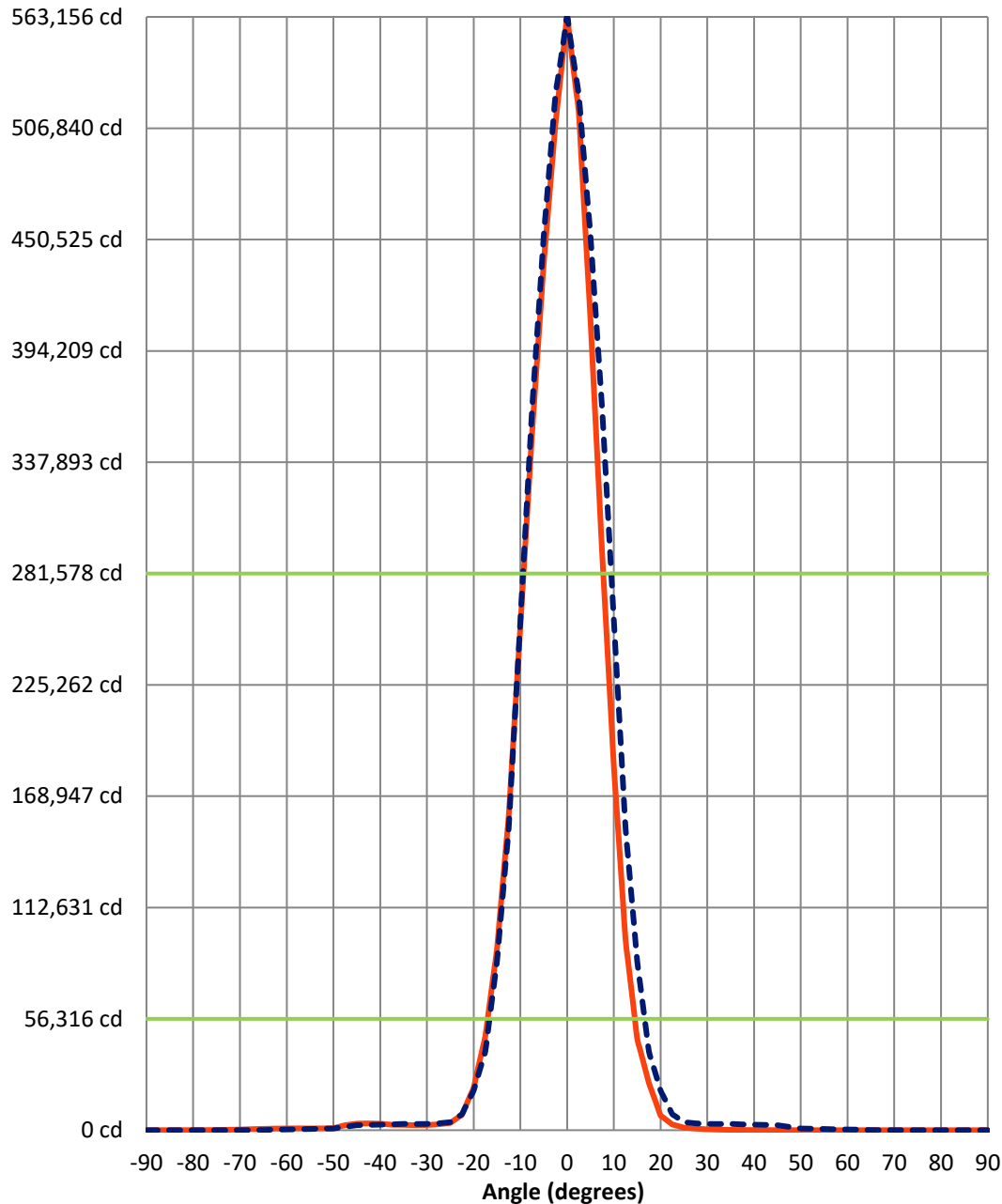
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 18.9°  
 V Angle: 17.1°  
 Lumens: 29906.9  
 Efficiency: 46.1%

**Field:**  
 H Angle: 33.2°  
 V Angle: 31.5°  
 Lumens: 54973.4  
 Efficiency: 84.7%

**Spill:**  
 Lumens: 9953.6  
 Efficiency: 15.3%

— 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°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.3	7.6	8.0	8.3
87.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.6	6.2	5.9	5.5
85°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.6	6.2	5.9	5.5
82.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.6	6.2	6.0	5.9
80°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.6	6.5	6.4	6.5
77.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.8	6.7	6.8	6.9
75°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.8	6.9	6.9	6.9
72.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
70°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.0
67.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.1	7.1
65°	6.9	6.9	6.9	6.9	6.9	7.0	7.0	6.9	7.2	7.3	7.2
62.5°	6.9	6.9	6.9	6.9	6.9	7.1	7.1	7.2	7.5	7.6	7.3
60°	6.9	6.9	6.9	6.9	6.9	7.2	7.2	7.5	7.9	7.6	7.3
57.5°	6.9	6.9	6.9	6.9	7.0	7.3	7.4	7.9	8.0	7.7	7.4
55°	6.9	6.9	6.9	6.9	7.2	7.5	7.7	8.3	8.1	7.8	7.5
52.5°	6.9	6.9	6.9	6.9	7.3	7.6	7.9	8.3	8.1	7.9	7.6
50°	6.9	6.9	6.9	6.9	7.5	7.8	8.1	8.3	8.2	7.9	8.5
47.5°	6.9	6.9	6.9	6.9	7.6	7.9	8.3	8.3	8.3	8.0	9.3
45°	6.9	6.9	6.9	7.1	7.8	8.0	8.3	8.3	8.3	8.6	10.1
42.5°	6.9	6.9	6.9	7.2	8.0	8.1	8.3	8.4	8.4	9.1	11.0
40°	6.9	6.9	6.9	7.3	8.1	8.2	8.3	8.5	8.7	9.5	11.7
37.5°	6.9	6.9	6.9	7.4	8.2	8.3	8.3	8.6	9.1	10.0	12.4
35°	6.9	6.9	6.9	7.5	8.2	8.3	8.3	8.8	9.5	11.1	12.8
32.5°	6.9	6.9	6.9	7.6	8.3	8.3	8.3	9.0	9.8	12.2	14.3
30°	6.9	6.9	6.9	7.7	8.3	8.3	8.5	9.2	10.2	13.6	16.2
27.5°	6.9	6.9	6.9	7.8	8.3	8.3	8.6	9.5	10.8	15.1	18.3
25°	6.9	6.9	6.9	7.9	8.3	8.3	8.8	9.8	12.0	16.7	20.7
22.5°	6.9	6.9	6.9	8.0	8.3	8.3	9.0	10.1	13.2	18.6	24.3
20°	6.9	6.9	6.9	8.0	8.3	8.4	9.2	10.3	14.4	20.5	27.7
17.5°	6.9	6.9	6.9	8.1	8.3	8.6	9.4	10.6	15.6	22.6	31.1
15°	6.9	6.9	6.9	8.2	8.3	8.7	9.7	10.9	16.8	24.7	34.2
12.5°	6.9	6.9	6.9	8.2	8.3	8.9	10.0	11.4	18.1	26.8	37.2
10°	6.9	6.9	6.9	8.2	8.3	9.0	10.2	11.9	19.4	29.3	41.6
7.5°	6.9	6.9	6.9	8.3	8.3	9.2	10.5	12.4	20.6	31.8	49.4
5°	6.9	6.9	6.9	8.3	8.3	9.4	10.7	12.9	21.7	34.3	57.5
2.5°	6.9	6.9	6.9	8.3	8.3	9.5	10.9	13.4	22.7	36.6	65.6
0°	6.9	6.9	6.9	8.3	8.3	9.7	11.1	13.8	23.5	38.7	73.3
-2.5°	6.9	6.9	7.0	8.3	8.4	9.8	11.8	16.6	29.7	50.3	92.9
-5°	6.9	6.9	7.0	8.3	8.5	10.0	12.5	19.3	35.6	61.3	111.3
-7.5°	6.9	6.9	7.1	8.3	8.7	10.1	13.1	21.8	41.0	71.5	128.1
-10°	6.9	6.9	7.1	8.3	8.8	10.2	13.7	23.9	45.8	80.6	142.8
-12.5°	6.9	6.9	7.2	8.2	8.9	10.3	14.2	25.7	49.8	88.6	154.3
-15°	6.9	6.9	7.2	8.2	8.9	10.4	14.5	27.1	54.2	97.0	163.3
-17.5°	6.9	6.9	7.3	8.2	9.0	10.4	14.7	29.1	59.3	104.0	170.1
-20°	6.9	6.9	7.3	8.2	9.0	10.5	15.2	31.5	63.0	109.4	174.6



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 CATALOG NUMBER: EPH-LS-08-0530N-40-70-1S-CV2

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.9	6.9	7.4	8.2	9.0	10.5	16.1	32.9	65.5	113.2	176.6
-25°	6.9	6.9	7.4	8.2	9.0	10.8	16.6	33.4	66.5	115.2	176.1
-27.5°	6.9	6.9	7.4	8.2	9.0	11.1	16.8	33.0	65.9	115.7	177.6
-30°	6.9	6.9	7.4	8.2	9.0	11.3	16.4	31.4	64.9	114.9	176.9
-32.5°	6.9	6.9	7.4	8.2	9.0	11.4	15.6	30.6	63.1	111.9	173.8
-35°	6.9	6.9	7.4	8.2	9.1	11.5	15.4	29.7	59.8	106.7	168.1
-37.5°	6.9	6.9	7.4	8.2	9.1	11.5	15.4	28.0	54.8	99.2	153.2
-40°	6.9	6.9	7.4	8.3	9.0	11.4	15.3	25.6	48.1	91.4	137.2
-42.5°	6.9	6.9	7.3	8.3	9.0	11.4	15.0	22.4	43.1	79.4	120.1
-45°	6.9	6.9	7.3	8.4	9.1	11.2	14.6	20.0	38.6	66.2	102.3
-47.5°	6.9	6.9	7.3	8.4	9.1	11.0	14.1	19.3	33.0	52.4	86.7
-50°	6.9	6.9	7.2	8.3	9.1	10.8	13.7	18.4	26.0	44.4	70.2
-52.5°	6.9	6.9	7.1	8.2	9.1	10.5	13.3	17.3	22.6	35.9	53.8
-55°	6.9	6.9	7.1	8.1	9.0	10.3	12.8	16.1	20.9	27.1	43.9
-57.5°	6.9	6.9	7.0	7.9	8.9	10.1	12.2	15.4	19.1	23.5	33.6
-60°	6.9	6.9	6.9	7.8	8.8	9.9	11.6	14.5	17.4	21.4	25.6
-62.5°	6.9	6.9	6.9	7.7	8.6	9.7	11.2	13.5	16.3	19.3	23.2
-65°	6.9	6.9	6.9	7.5	8.4	9.4	10.8	12.7	15.2	17.8	20.7
-67.5°	6.9	6.9	6.9	7.4	8.2	9.1	10.2	12.0	14.0	16.5	18.9
-70°	6.9	6.9	6.9	7.2	8.0	8.8	9.7	11.2	13.1	15.1	17.4
-72.5°	6.9	6.9	6.9	7.2	7.8	8.6	9.3	10.4	12.1	13.9	15.9
-75°	6.9	6.9	6.9	7.1	7.6	8.3	9.0	9.9	11.0	12.6	14.3
-77.5°	6.9	6.9	6.9	7.1	7.5	8.0	8.7	9.4	10.4	11.4	12.8
-80°	6.9	6.9	6.9	7.1	7.4	7.8	8.3	9.0	9.7	10.6	11.5
-82.5°	6.9	6.9	6.9	7.0	7.3	7.6	8.0	8.5	9.0	9.7	10.4
-85°	6.9	6.9	6.9	7.0	7.1	7.4	7.6	8.1	8.5	9.0	9.5
-87.5°	6.9	6.9	6.9	6.9	7.0	7.1	7.3	7.7	8.1	8.5	8.9
-90°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.6	6.2	5.9	5.5





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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°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
87.5°	5.5	5.5	5.5	5.5	5.2	4.9	4.5	4.2	4.2	4.2	4.2
85°	5.5	5.5	5.5	5.5	5.2	4.9	4.5	4.2	4.2	4.2	4.2
82.5°	5.9	5.9	5.7	5.5	5.2	4.9	4.6	4.4	4.4	4.4	4.3
80°	6.4	6.2	5.9	5.6	5.3	5.2	5.2	5.3	5.2	4.9	4.6
77.5°	6.6	6.3	5.9	5.6	5.5	5.7	5.7	5.6	5.3	4.9	4.6
75°	6.7	6.3	6.2	6.2	6.2	6.2	6.0	5.6	5.4	5.3	5.3
72.5°	6.7	6.6	6.7	6.9	6.7	6.4	6.0	5.7	6.0	6.7	7.2
70°	6.8	6.9	6.9	6.9	6.8	6.6	6.9	7.8	9.0	10.4	12.8
67.5°	6.9	6.9	6.9	6.9	6.9	7.3	8.4	13.5	19.6	22.2	23.2
65°	6.9	6.9	6.9	6.9	6.9	10.7	16.4	23.5	30.9	32.2	31.3
62.5°	6.9	6.9	6.9	7.9	11.1	16.3	23.0	30.5	39.2	39.5	34.5
60°	7.0	6.9	8.3	11.4	15.2	20.2	27.8	33.9	40.4	43.2	33.1
57.5°	7.1	8.0	10.8	14.5	18.6	22.5	26.9	32.9	35.9	36.4	26.8
55°	7.7	9.8	13.2	17.3	20.5	20.4	23.7	26.3	27.4	25.9	18.5
52.5°	9.1	11.5	15.5	19.4	20.7	19.1	18.5	20.2	19.4	16.7	13.6
50°	10.3	13.5	17.6	20.9	20.6	17.6	14.9	15.7	15.0	13.1	11.1
47.5°	11.7	15.3	20.2	22.3	19.8	17.7	15.2	14.5	13.7	14.0	12.5
45°	13.0	17.1	22.4	21.9	20.3	19.5	17.6	15.1	17.6	18.0	17.5
42.5°	14.1	18.6	22.3	21.9	23.1	22.5	20.9	22.0	23.3	24.4	25.0
40°	15.1	19.7	22.7	26.0	26.5	26.4	28.6	30.6	30.7	32.8	34.4
37.5°	15.8	20.8	25.5	33.2	30.7	33.1	37.6	41.6	43.8	42.1	47.1
35°	16.2	22.6	34.5	42.6	40.3	42.4	49.4	57.3	65.0	60.6	69.2
32.5°	17.5	25.2	46.1	53.3	61.1	61.5	62.8	84.5	101.0	108.5	112.6
30°	20.5	35.7	58.9	65.7	90.3	95.4	94.6	121.4	152.0	224.8	280.6
27.5°	24.8	48.6	70.8	91.4	126.2	135.3	148.1	179.1	272.8	411.3	568.0
25°	29.0	65.4	83.8	126.1	165.0	183.5	205.6	252.3	441.9	752.2	865.8
22.5°	38.0	84.2	104.8	165.7	207.8	233.1	273.3	387.2	649.2	1126.0	1156.6
20°	52.4	101.6	135.5	203.2	254.5	282.3	340.8	527.3	879.6	1227.0	1362.2
17.5°	67.6	121.0	169.1	241.1	305.1	344.5	416.6	660.4	1059.1	1357.7	1517.0
15°	83.3	141.7	200.1	282.8	360.3	422.6	566.4	840.3	1183.6	1512.1	1741.3
12.5°	98.9	163.5	228.5	327.4	419.6	500.6	747.5	1137.6	1455.4	1719.6	2022.3
10°	114.2	185.7	254.5	373.4	481.3	577.7	946.8	1457.8	1771.0	2004.1	2269.4
7.5°	151.4	219.8	283.3	419.5	544.1	653.2	1155.0	1789.4	2057.8	2247.7	2447.4
5°	193.4	265.4	338.9	488.0	612.5	725.3	1357.6	2118.9	2321.1	2458.9	2583.1
2.5°	234.9	309.3	393.2	556.2	680.6	791.7	1528.6	2333.5	2506.8	2637.8	2736.9
0°	273.9	351.4	445.5	619.8	744.3	853.6	1675.4	2515.2	2671.5	2803.0	2921.9
-2.5°	295.7	385.5	484.7	644.0	751.6	857.5	1561.0	2453.3	2686.6	2861.9	3039.5
-5°	312.8	416.8	521.0	664.5	756.7	857.8	1427.1	2346.4	2704.5	2922.6	3139.5
-7.5°	325.0	444.8	554.1	681.2	762.8	861.3	1419.9	2384.2	2812.5	3010.0	3222.9
-10°	330.3	455.3	560.9	684.6	770.3	865.0	1402.2	2366.7	2916.6	3101.1	3292.2
-12.5°	320.0	450.2	559.0	683.5	776.4	864.6	1330.5	2287.5	3020.4	3200.9	3326.3
-15°	308.1	442.9	552.3	677.7	781.6	860.2	1197.3	2142.9	3039.1	3155.0	3278.5
-17.5°	295.3	433.4	540.5	667.1	786.2	851.6	986.7	1778.0	2725.8	3003.8	3200.3
-20°	282.4	421.9	523.2	651.6	786.7	823.0	891.9	1427.0	2225.7	2786.4	3045.4



REPORT NUMBER: P731451 (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°	270.1	408.4	503.5	630.5	734.6	780.1	830.4	1101.4	1703.8	2506.7	2771.6
-25°	264.4	387.9	485.5	586.6	681.3	735.2	764.1	838.2	1274.8	1978.6	2468.0
-27.5°	262.4	370.0	458.5	544.3	635.3	686.5	709.1	763.7	1000.5	1469.6	2130.6
-30°	257.1	342.9	430.0	506.0	589.6	639.2	657.6	705.8	786.8	1126.8	1606.2
-32.5°	241.6	314.7	398.5	473.2	545.8	603.0	627.7	671.5	729.8	833.5	1177.5
-35°	222.4	290.8	365.8	439.2	505.9	568.3	611.7	643.4	683.0	735.4	904.2
-37.5°	205.4	265.7	332.8	403.8	468.1	532.1	593.7	622.6	653.7	693.7	764.5
-40°	186.7	239.5	302.9	367.7	430.6	493.0	552.8	604.9	629.6	670.9	719.5
-42.5°	166.7	217.3	273.4	331.6	391.7	450.7	509.7	565.2	618.6	651.2	690.1
-45°	146.5	193.5	243.7	298.1	351.8	407.1	462.3	519.3	585.3	642.4	670.8
-47.5°	125.0	168.5	215.8	264.0	313.6	363.4	413.8	475.2	541.1	602.9	662.7
-50°	103.6	143.6	187.1	232.4	276.6	321.4	367.2	431.4	495.0	555.2	612.4
-52.5°	84.4	117.5	158.7	201.6	242.1	281.9	329.0	387.5	448.3	507.7	562.1
-55°	64.4	94.5	128.8	169.1	209.6	245.8	291.3	344.7	399.6	456.8	510.2
-57.5°	49.6	71.7	101.2	134.4	173.1	213.1	257.2	301.7	351.7	403.5	450.8
-60°	37.6	52.9	74.7	102.7	133.1	172.8	220.5	264.5	306.6	347.9	392.2
-62.5°	27.1	39.2	53.6	72.3	98.5	129.3	169.6	214.9	263.7	299.5	334.4
-65°	24.4	27.9	37.9	51.2	65.0	90.4	120.8	154.8	195.8	232.3	269.5
-67.5°	21.6	24.9	28.2	33.4	45.6	59.1	73.4	100.5	130.3	155.6	181.9
-70°	19.6	21.9	24.8	27.8	31.0	37.0	49.0	61.6	73.9	88.0	109.3
-72.5°	17.7	19.5	21.7	24.2	27.0	30.1	33.4	36.9	44.2	53.3	62.0
-75°	15.7	17.1	18.7	20.6	22.8	25.2	27.9	30.7	33.2	35.5	37.8
-77.5°	13.8	14.8	15.9	17.1	18.5	20.2	22.2	24.3	26.2	27.9	29.6
-80°	12.0	12.5	13.2	14.1	15.1	16.2	17.3	18.3	19.3	20.6	22.0
-82.5°	10.6	10.8	11.0	11.3	12.1	12.8	13.6	14.4	15.0	15.7	16.3
-85°	9.3	9.0	8.9	8.9	9.5	10.2	10.8	11.4	11.6	11.9	12.1
-87.5°	8.8	8.7	8.5	8.3	8.5	8.7	9.0	9.3	9.3	9.4	9.4
-90°	5.5	5.5	5.5	5.5	5.2	4.9	4.5	4.2	4.2	4.2	4.2



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	8.3	8.7	9.0	9.3	9.7	10.4	11.1	11.8	12.5	17.7	22.8
87.5°	4.2	3.9	3.5	3.2	2.8	2.5	2.1	1.8	1.4	1.4	1.4
85°	4.2	3.9	3.5	3.2	2.8	2.5	2.1	1.8	1.4	1.4	1.4
82.5°	4.2	3.9	3.5	3.2	2.8	2.5	2.1	1.8	1.4	1.4	1.4
80°	4.3	3.9	3.6	3.2	2.8	2.7	2.6	2.6	2.6	2.4	2.1
77.5°	4.4	4.2	4.0	3.8	3.6	3.5	3.3	3.1	2.8	2.5	2.1
75°	5.4	5.4	5.3	4.9	4.4	3.9	3.6	3.2	2.9	2.8	2.7
72.5°	7.6	7.5	7.0	6.8	6.2	5.7	5.6	5.4	5.0	5.0	5.2
70°	14.2	14.5	13.8	12.5	10.6	9.4	8.8	8.0	6.9	6.8	7.3
67.5°	22.3	20.5	18.9	17.0	14.5	12.4	11.3	10.3	9.3	9.1	9.4
65°	28.2	22.3	19.1	16.8	15.0	13.4	12.0	10.7	9.4	8.7	8.5
62.5°	28.2	20.2	16.3	14.4	13.1	12.1	10.3	8.7	7.2	6.4	6.4
60°	24.2	16.6	12.2	10.6	9.3	8.3	7.5	6.6	5.9	5.5	5.6
57.5°	18.4	12.0	8.3	8.1	7.7	7.2	6.8	6.5	6.1	5.5	5.8
55°	12.9	10.0	8.4	8.5	8.6	8.5	8.0	7.3	6.8	6.4	6.7
52.5°	10.3	10.0	10.4	10.6	9.8	9.0	8.2	8.2	8.3	8.6	9.0
50°	10.9	11.4	11.5	10.9	10.4	10.1	9.6	10.0	10.7	11.2	11.7
47.5°	12.6	13.2	13.6	12.3	12.4	13.2	12.7	13.0	15.5	17.5	18.9
45°	16.6	18.6	19.0	19.3	19.0	20.9	22.0	23.0	28.2	30.2	30.1
42.5°	25.5	28.6	30.6	32.6	31.0	36.6	44.7	50.1	48.8	46.8	47.4
40°	38.5	44.2	52.2	56.5	61.3	67.6	69.9	60.5	59.1	66.6	67.3
37.5°	58.6	73.8	90.8	103.8	106.0	103.2	99.9	98.4	100.6	105.5	113.0
35°	96.4	132.3	147.9	156.1	161.1	145.9	140.2	145.7	141.0	154.8	159.6
32.5°	170.8	217.0	230.5	236.7	249.2	233.9	199.9	240.1	224.9	222.6	238.1
30°	270.7	335.4	390.9	395.0	386.0	383.6	403.0	408.3	390.2	390.1	450.9
27.5°	518.7	533.4	631.6	676.0	564.9	573.3	626.4	598.2	663.9	727.4	777.5
25°	821.4	833.6	1005.2	978.9	861.3	894.8	925.8	919.7	995.9	1072.2	1159.1
22.5°	1099.6	1149.4	1290.4	1253.9	1201.5	1216.0	1244.5	1300.9	1403.4	1558.6	1963.1
20°	1321.5	1353.9	1422.4	1453.6	1456.6	1485.0	1575.8	1731.4	2050.7	3098.0	4362.4
17.5°	1535.5	1485.4	1567.7	1621.6	1679.9	1784.0	1995.2	2632.5	4172.2	7346.7	10457.6
15°	1846.2	1815.4	1766.9	1840.7	2002.5	2215.3	2708.6	5038.6	10269.5	16221.9	22410.4
12.5°	2184.7	2144.0	2077.1	2139.3	2385.1	2764.2	5082.7	10987.5	19349.1	30020.4	50807.0
10°	2454.6	2436.3	2394.7	2526.7	2847.4	3990.0	8096.8	17387.8	29821.0	54575.5	84835.6
7.5°	2619.8	2611.4	2646.9	2863.2	3300.0	5827.1	13236.1	26173.2	48021.2	82387.2	133185.1
5°	2800.3	2787.3	2844.5	3106.8	3623.6	7004.8	17250.4	34065.3	66602.2	114148.6	187918.3
2.5°	2993.9	2964.1	3023.0	3322.0	3877.0	7266.1	18151.6	36429.0	77632.2	138632.1	237468.6
0°	3189.0	3128.1	3159.9	3458.7	4066.1	8122.5	20019.2	39836.5	85429.7	152797.0	257915.9
-2.5°	3204.9	3101.7	3133.3	3409.5	3991.1	6993.5	17381.0	36696.7	81194.4	142169.1	236191.5
-5°	3231.8	3097.3	3088.4	3330.5	3884.2	6380.4	14745.9	33561.8	71736.1	125107.2	206582.1
-7.5°	3281.9	3122.9	3046.4	3225.4	3714.7	5546.5	12030.4	27939.2	58034.1	102038.4	161079.5
-10°	3364.2	3193.3	3068.1	3146.7	3500.6	4523.5	7959.9	20306.8	43929.2	76931.4	116951.1
-12.5°	3465.6	3386.7	3198.8	3090.1	3284.4	3838.7	6256.7	15171.9	30864.1	48671.2	77865.7
-15°	3512.7	3542.5	3406.8	3190.5	3203.3	3546.2	4375.8	8307.1	19374.0	32312.2	46714.1
-17.5°	3448.7	3589.8	3433.0	3184.8	3084.2	3287.4	3675.6	5116.8	8952.8	17263.1	25709.8
-20°	3261.9	3308.1	3276.0	3127.0	3021.5	3032.6	3224.7	3598.5	4346.8	7067.2	10056.9



REPORT NUMBER: P731451 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-1S-CV2

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2915.8	2945.6	2937.2	3047.4	2929.1	2875.9	2917.7	3062.7	3295.0	3648.0	4637.3
-25°	2621.0	2608.4	2676.5	2861.0	2890.1	2761.5	2727.9	2738.5	2870.6	3027.1	3244.0
-27.5°	2339.6	2424.7	2574.6	2761.8	2843.1	2756.6	2647.9	2576.9	2640.4	2689.7	2787.1
-30°	2104.2	2324.2	2481.3	2651.8	2774.1	2760.4	2654.6	2619.7	2589.7	2554.8	2579.5
-32.5°	1729.3	2202.8	2364.9	2504.2	2652.5	2712.5	2711.7	2697.0	2710.5	2682.1	2618.6
-35°	1344.0	1854.3	2275.3	2352.7	2448.5	2590.1	2698.7	2715.9	2732.2	2731.4	2716.2
-37.5°	964.2	1438.5	1865.2	2178.9	2291.5	2395.2	2597.6	2705.7	2741.0	2797.0	2817.6
-40°	790.7	932.9	1359.5	1743.2	2001.9	2316.2	2526.5	2722.1	2923.4	3041.1	3107.7
-42.5°	738.7	797.8	860.4	1155.5	1524.5	1869.5	2199.2	2571.7	2857.6	3079.6	3301.0
-45°	701.2	739.2	780.7	838.8	896.8	1189.1	1524.9	1862.1	2178.5	2497.4	2803.4
-47.5°	686.4	700.3	729.2	762.3	801.0	852.1	900.6	975.7	1236.8	1495.4	1772.7
-50°	662.5	697.4	709.9	721.9	753.2	783.1	806.3	838.0	869.6	889.4	915.6
-52.5°	612.2	657.1	695.6	730.8	751.0	768.4	783.8	809.8	834.2	855.4	870.0
-55°	560.2	606.6	650.8	694.2	734.7	773.6	807.3	826.0	844.8	863.8	871.6
-57.5°	499.1	548.0	595.8	640.9	685.1	728.3	766.6	801.1	834.2	864.9	884.1
-60°	435.2	476.9	525.2	575.2	621.4	663.8	706.2	746.2	783.2	814.5	834.3
-62.5°	372.9	412.6	452.4	497.5	547.5	595.8	634.0	672.8	711.8	746.1	770.9
-65°	305.4	338.6	370.4	404.4	440.2	478.9	519.3	559.0	597.8	630.3	654.8
-67.5°	213.2	245.1	274.5	303.6	330.5	357.7	386.7	416.1	445.5	471.3	493.1
-70°	130.0	149.3	166.4	185.0	207.2	230.0	252.9	273.9	293.1	308.9	321.6
-72.5°	70.4	77.7	86.0	99.8	112.4	126.0	140.0	152.9	164.8	175.7	185.6
-75°	40.1	43.5	49.4	54.7	59.4	65.2	71.5	77.5	83.2	88.9	94.0
-77.5°	31.3	33.0	34.6	36.1	37.6	39.7	42.1	44.5	47.0	51.1	55.5
-80°	23.3	24.4	25.5	26.6	27.6	29.0	30.4	31.8	33.0	34.8	36.6
-82.5°	17.0	17.5	18.0	18.4	18.8	19.8	20.7	21.7	22.6	24.6	26.5
-85°	12.3	12.5	12.7	12.9	13.0	13.5	14.0	14.5	14.9	16.7	18.5
-87.5°	9.4	9.5	9.6	9.7	9.7	10.1	10.4	10.8	11.1	12.9	14.7
-90°	4.2	3.9	3.5	3.2	2.8	2.5	2.1	1.8	1.4	1.1	0.7



REPORT NUMBER: P731451 (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°
90°	28.0	33.2	38.0	42.9	38.0	33.2	28.0	22.8	17.7	12.5	11.8
87.5°	1.4	1.4	0.7	0.0	0.7	1.4	1.4	1.4	1.4	1.4	1.8
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8
80°	1.8	1.4	1.4	1.4	1.4	1.4	1.8	2.1	2.4	2.6	2.6
77.5°	1.8	1.4	1.4	1.4	1.4	1.4	1.8	2.1	2.5	2.8	3.1
75°	2.7	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.8	2.9	3.2
72.5°	5.3	5.4	5.5	5.5	5.5	5.4	5.3	5.2	5.0	5.0	5.4
70°	7.7	8.2	8.9	9.7	8.9	8.2	7.7	7.3	6.8	6.9	8.0
67.5°	9.6	9.6	8.4	6.9	8.4	9.6	9.6	9.4	9.1	9.3	10.3
65°	8.4	8.4	7.7	6.9	7.7	8.4	8.4	8.5	8.7	9.4	10.7
62.5°	6.6	6.9	6.9	6.9	6.9	6.9	6.6	6.4	6.4	7.2	8.7
60°	5.6	5.6	5.5	5.5	5.5	5.6	5.6	5.6	5.5	5.9	6.6
57.5°	6.3	6.7	6.9	6.9	6.9	6.7	6.3	5.8	5.5	6.1	6.5
55°	6.8	6.9	7.4	8.3	7.4	6.9	6.8	6.7	6.4	6.8	7.3
52.5°	9.3	9.5	9.7	9.7	9.7	9.5	9.3	9.0	8.6	8.3	8.2
50°	12.0	12.3	12.4	12.5	12.4	12.3	12.0	11.7	11.2	10.7	10.0
47.5°	19.9	20.3	21.0	22.1	21.0	20.3	19.9	18.9	17.5	15.5	13.0
45°	31.5	32.4	33.7	36.0	33.7	32.4	31.5	30.1	30.2	28.2	23.0
42.5°	49.9	51.4	52.8	55.3	52.8	51.4	49.9	47.4	46.8	48.8	50.1
40°	68.9	69.8	70.7	73.3	70.7	69.8	68.9	67.3	66.6	59.1	60.5
37.5°	116.4	111.5	106.3	117.6	106.3	111.5	116.4	113.0	105.5	100.6	98.4
35°	158.8	161.8	166.4	174.3	166.4	161.8	158.8	159.6	154.8	141.0	145.7
32.5°	240.9	254.0	260.0	268.4	260.0	254.0	240.9	238.1	222.6	224.9	240.1
30°	479.3	478.5	440.0	446.9	440.0	478.5	479.3	450.9	390.1	390.2	408.3
27.5°	793.6	803.1	798.9	819.0	798.9	803.1	793.6	777.5	727.4	663.9	598.2
25°	1235.3	1276.7	1268.6	1308.8	1268.6	1276.7	1235.3	1159.1	1072.2	995.9	919.7
22.5°	2460.1	2650.5	2647.5	2901.2	2647.5	2650.5	2460.1	1963.1	1558.6	1403.4	1300.9
20°	6570.7	7870.6	7334.9	7433.5	7334.9	7870.6	6570.7	4362.4	3098.0	2050.7	1731.4
17.5°	15152.3	19556.7	21469.6	23859.8	21469.6	19556.7	15152.3	10457.6	7346.7	4172.2	2632.5
15°	34589.8	46324.7	52194.5	46203.3	52194.5	46324.7	34589.8	22410.4	16221.9	10269.5	5038.6
12.5°	72420.8	93024.9	107267.2	96337.2	107267.2	93024.9	72420.8	50807.0	30020.4	19349.1	10987.5
10°	125113.2	163065.5	194431.2	184093.8	194431.2	163065.5	125113.2	84835.6	54575.5	29821.0	17387.8
7.5°	192340.7	253651.3	291918.1	291634.6	291918.1	253651.3	192340.7	133185.1	82387.2	48021.2	26173.2
5°	276719.6	355162.4	403887.7	409763.2	403887.7	355162.4	276719.6	187918.3	114148.6	66602.2	34065.3
2.5°	339196.3	424243.8	490775.3	514772.2	490775.3	424243.8	339196.3	237468.6	138632.1	77632.2	36429.0
0°	364704.7	452383.3	523502.0	563155.8	523502.0	452383.3	364704.7	257915.9	152797.0	85429.7	39836.5
-2.5°	344661.7	425641.9	484299.7	508867.4	484299.7	425641.9	344661.7	236191.5	142169.1	81194.4	36696.7
-5°	300936.0	377201.0	422450.1	438519.2	422450.1	377201.0	300936.0	206582.1	125107.2	71736.1	33561.8
-7.5°	235499.2	299340.2	338401.6	352509.9	338401.6	299340.2	235499.2	161079.5	102038.4	58034.1	27939.2
-10°	163083.9	210538.2	244451.0	254970.5	244451.0	210538.2	163083.9	116951.1	76931.4	43929.2	20306.8
-12.5°	105083.8	133238.7	152027.2	158870.6	152027.2	133238.7	105083.8	77865.7	48671.2	30864.1	15171.9
-15°	63928.1	79604.9	88704.2	91770.2	88704.2	79604.9	63928.1	46714.1	32312.2	19374.0	8307.1
-17.5°	35224.1	42790.0	45571.6	47528.7	45571.6	42790.0	35224.1	25709.8	17263.1	8952.8	5116.8
-20°	15780.4	19065.1	20676.9	21503.7	20676.9	19065.1	15780.4	10056.9	7067.2	4346.8	3598.5



REPORT NUMBER: P731451 (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°	6084.5	7043.7	7475.7	7830.6	7475.7	7043.7	6084.5	4637.3	3648.0	3295.0	3062.7
-25°	3432.7	3565.8	3626.5	3666.3	3626.5	3565.8	3432.7	3244.0	3027.1	2870.6	2738.5
-27.5°	2856.5	2933.4	2986.2	2977.3	2986.2	2933.4	2856.5	2787.1	2689.7	2640.4	2576.9
-30°	2581.4	2605.0	2624.9	2609.3	2624.9	2605.0	2581.4	2579.5	2554.8	2589.7	2619.7
-32.5°	2573.8	2549.5	2535.5	2531.8	2535.5	2549.5	2573.8	2618.6	2682.1	2710.5	2697.0
-35°	2698.9	2687.9	2680.9	2685.4	2680.9	2687.9	2698.9	2716.2	2731.4	2732.2	2715.9
-37.5°	2820.1	2803.9	2779.4	2760.1	2779.4	2803.9	2820.1	2817.6	2797.0	2741.0	2705.7
-40°	3120.5	3178.7	3252.3	3292.7	3252.3	3178.7	3120.5	3107.7	3041.1	2923.4	2722.1
-42.5°	3366.7	3409.1	3428.3	3426.9	3428.3	3409.1	3366.7	3301.0	3079.6	2857.6	2571.7
-45°	3035.6	3205.3	3297.0	3314.9	3297.0	3205.3	3035.6	2803.4	2497.4	2178.5	1862.1
-47.5°	2071.7	2347.4	2509.1	2530.4	2509.1	2347.4	2071.7	1772.7	1495.4	1236.8	975.7
-50°	951.5	988.4	1002.0	992.0	1002.0	988.4	951.5	915.6	889.4	869.6	838.0
-52.5°	884.0	898.2	905.6	907.6	905.6	898.2	884.0	870.0	855.4	834.2	809.8
-55°	879.0	886.8	892.0	896.5	892.0	886.8	879.0	871.6	863.8	844.8	826.0
-57.5°	902.1	918.7	926.5	929.7	926.5	918.7	902.1	884.1	864.9	834.2	801.1
-60°	852.2	868.5	874.4	875.8	874.4	868.5	852.2	834.3	814.5	783.2	746.2
-62.5°	794.2	815.7	823.7	825.9	823.7	815.7	794.2	770.9	746.1	711.8	672.8
-65°	676.1	694.3	695.6	690.4	695.6	694.3	676.1	654.8	630.3	597.8	559.0
-67.5°	512.8	529.9	530.7	525.7	530.7	529.9	512.8	493.1	471.3	445.5	416.1
-70°	331.9	339.8	341.4	340.3	341.4	339.8	331.9	321.6	308.9	293.1	273.9
-72.5°	194.3	201.7	200.2	196.5	200.2	201.7	194.3	185.6	175.7	164.8	152.9
-75°	98.6	102.7	104.2	105.1	104.2	102.7	98.6	94.0	88.9	83.2	77.5
-77.5°	60.0	64.3	65.6	66.4	65.6	64.3	60.0	55.5	51.1	47.0	44.5
-80°	38.3	39.9	40.1	40.1	40.1	39.9	38.3	36.6	34.8	33.0	31.8
-82.5°	28.4	30.3	31.1	31.8	31.1	30.3	28.4	26.5	24.6	22.6	21.7
-85°	20.3	22.1	22.8	23.5	22.8	22.1	20.3	18.5	16.7	14.9	14.5
-87.5°	16.4	18.1	18.7	19.4	18.7	18.1	16.4	14.7	12.9	11.1	10.8
-90°	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.7	1.1	1.4	1.8



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	11.1	10.4	9.7	9.3	9.0	8.7	8.3	8.3	8.3	8.3	8.3
87.5°	2.1	2.5	2.8	3.2	3.5	3.9	4.2	4.2	4.2	4.2	4.2
85°	2.1	2.5	2.8	3.2	3.5	3.9	4.2	4.2	4.2	4.2	4.2
82.5°	2.1	2.5	2.8	3.2	3.5	3.9	4.2	4.3	4.4	4.4	4.4
80°	2.6	2.7	2.8	3.2	3.6	3.9	4.3	4.6	4.9	5.2	5.3
77.5°	3.3	3.5	3.6	3.8	4.0	4.2	4.4	4.6	4.9	5.3	5.6
75°	3.6	3.9	4.4	4.9	5.3	5.4	5.4	5.3	5.3	5.4	5.6
72.5°	5.6	5.7	6.2	6.8	7.0	7.5	7.6	7.2	6.7	6.0	5.7
70°	8.8	9.4	10.6	12.5	13.8	14.5	14.2	12.8	10.4	9.0	7.8
67.5°	11.3	12.4	14.5	17.0	18.9	20.5	22.3	23.2	22.2	19.6	13.5
65°	12.0	13.4	15.0	16.8	19.1	22.3	28.2	31.3	32.2	30.9	23.5
62.5°	10.3	12.1	13.1	14.4	16.3	20.2	28.2	34.5	39.5	39.2	30.5
60°	7.5	8.3	9.3	10.6	12.2	16.6	24.2	33.1	43.2	40.4	33.9
57.5°	6.8	7.2	7.7	8.1	8.3	12.0	18.4	26.8	36.4	35.9	32.9
55°	8.0	8.5	8.6	8.5	8.4	10.0	12.9	18.5	25.9	27.4	26.3
52.5°	8.2	9.0	9.8	10.6	10.4	10.0	10.3	13.6	16.7	19.4	20.2
50°	9.6	10.1	10.4	10.9	11.5	11.4	10.9	11.1	13.1	15.0	15.7
47.5°	12.7	13.2	12.4	12.3	13.6	13.2	12.6	12.5	14.0	13.7	14.5
45°	22.0	20.9	19.0	19.3	19.0	18.6	16.6	17.5	18.0	17.6	15.1
42.5°	44.7	36.6	31.0	32.6	30.6	28.6	25.5	25.0	24.4	23.3	22.0
40°	69.9	67.6	61.3	56.5	52.2	44.2	38.5	34.4	32.8	30.7	30.6
37.5°	99.9	103.2	106.0	103.8	90.8	73.8	58.6	47.1	42.1	43.8	41.6
35°	140.2	145.9	161.1	156.1	147.9	132.3	96.4	69.2	60.6	65.0	57.3
32.5°	199.9	233.9	249.2	236.7	230.5	217.0	170.8	112.6	108.5	101.0	84.5
30°	403.0	383.6	386.0	395.0	390.9	335.4	270.7	280.6	224.8	152.0	121.4
27.5°	626.4	573.3	564.9	676.0	631.6	533.4	518.7	568.0	411.3	272.8	179.1
25°	925.8	894.8	861.3	978.9	1005.2	833.6	821.4	865.8	752.2	441.9	252.3
22.5°	1244.5	1216.0	1201.5	1253.9	1290.4	1149.4	1099.6	1156.6	1126.0	649.2	387.2
20°	1575.8	1485.0	1456.6	1453.6	1422.4	1353.9	1321.5	1362.2	1227.0	879.6	527.3
17.5°	1995.2	1784.0	1679.9	1621.6	1567.7	1485.4	1535.5	1517.0	1357.7	1059.1	660.4
15°	2708.6	2215.3	2002.5	1840.7	1766.9	1815.4	1846.2	1741.3	1512.1	1183.6	840.3
12.5°	5082.7	2764.2	2385.1	2139.3	2077.1	2144.0	2184.7	2022.3	1719.6	1455.4	1137.6
10°	8096.8	3990.0	2847.4	2526.7	2394.7	2436.3	2454.6	2269.4	2004.1	1771.0	1457.8
7.5°	13236.1	5827.1	3300.0	2863.2	2646.9	2611.4	2619.8	2447.4	2247.7	2057.8	1789.4
5°	17250.4	7004.8	3623.6	3106.8	2844.5	2787.3	2800.3	2583.1	2458.9	2321.1	2118.9
2.5°	18151.6	7266.1	3877.0	3322.0	3023.0	2964.1	2993.9	2736.9	2637.8	2506.8	2333.5
0°	20019.2	8122.5	4066.1	3458.7	3159.9	3128.1	3189.0	2921.9	2803.0	2671.5	2515.2
-2.5°	17381.0	6993.5	3991.1	3409.5	3133.3	3101.7	3204.9	3039.5	2861.9	2686.6	2453.3
-5°	14745.9	6380.4	3884.2	3330.5	3088.4	3097.3	3231.8	3139.5	2922.6	2704.5	2346.4
-7.5°	12030.4	5546.5	3714.7	3225.4	3046.4	3122.9	3281.9	3222.9	3010.0	2812.5	2384.2
-10°	7959.9	4523.5	3500.6	3146.7	3068.1	3193.3	3364.2	3292.2	3101.1	2916.6	2366.7
-12.5°	6256.7	3838.7	3284.4	3090.1	3198.8	3386.7	3465.6	3326.3	3200.9	3020.4	2287.5
-15°	4375.8	3546.2	3203.3	3190.5	3406.8	3542.5	3512.7	3278.5	3155.0	3039.1	2142.9
-17.5°	3675.6	3287.4	3084.2	3184.8	3433.0	3589.8	3448.7	3200.3	3003.8	2725.8	1778.0
-20°	3224.7	3032.6	3021.5	3127.0	3276.0	3308.1	3261.9	3045.4	2786.4	2225.7	1427.0





REPORT NUMBER: P731451 (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°	2917.7	2875.9	2929.1	3047.4	2937.2	2945.6	2915.8	2771.6	2506.7	1703.8	1101.4
-25°	2727.9	2761.5	2890.1	2861.0	2676.5	2608.4	2621.0	2468.0	1978.6	1274.8	838.2
-27.5°	2647.9	2756.6	2843.1	2761.8	2574.6	2424.7	2339.6	2130.6	1469.6	1000.5	763.7
-30°	2654.6	2760.4	2774.1	2651.8	2481.3	2324.2	2104.2	1606.2	1126.8	786.8	705.8
-32.5°	2711.7	2712.5	2652.5	2504.2	2364.9	2202.8	1729.3	1177.5	833.5	729.8	671.5
-35°	2698.7	2590.1	2448.5	2352.7	2275.3	1854.3	1344.0	904.2	735.4	683.0	643.4
-37.5°	2597.6	2395.2	2291.5	2178.9	1865.2	1438.5	964.2	764.5	693.7	653.7	622.6
-40°	2526.5	2316.2	2001.9	1743.2	1359.5	932.9	790.7	719.5	670.9	629.6	604.9
-42.5°	2199.2	1869.5	1524.5	1155.5	860.4	797.8	738.7	690.1	651.2	618.6	565.2
-45°	1524.9	1189.1	896.8	838.8	780.7	739.2	701.2	670.8	642.4	585.3	519.3
-47.5°	900.6	852.1	801.0	762.3	729.2	700.3	686.4	662.7	602.9	541.1	475.2
-50°	806.3	783.1	753.2	721.9	709.9	697.4	662.5	612.4	555.2	495.0	431.4
-52.5°	783.8	768.4	751.0	730.8	695.6	657.1	612.2	562.1	507.7	448.3	387.5
-55°	807.3	773.6	734.7	694.2	650.8	606.6	560.2	510.2	456.8	399.6	344.7
-57.5°	766.6	728.3	685.1	640.9	595.8	548.0	499.1	450.8	403.5	351.7	301.7
-60°	706.2	663.8	621.4	575.2	525.2	476.9	435.2	392.2	347.9	306.6	264.5
-62.5°	634.0	595.8	547.5	497.5	452.4	412.6	372.9	334.4	299.5	263.7	214.9
-65°	519.3	478.9	440.2	404.4	370.4	338.6	305.4	269.5	232.3	195.8	154.8
-67.5°	386.7	357.7	330.5	303.6	274.5	245.1	213.2	181.9	155.6	130.3	100.5
-70°	252.9	230.0	207.2	185.0	166.4	149.3	130.0	109.3	88.0	73.9	61.6
-72.5°	140.0	126.0	112.4	99.8	86.0	77.7	70.4	62.0	53.3	44.2	36.9
-75°	71.5	65.2	59.4	54.7	49.4	43.5	40.1	37.8	35.5	33.2	30.7
-77.5°	42.1	39.7	37.6	36.1	34.6	33.0	31.3	29.6	27.9	26.2	24.3
-80°	30.4	29.0	27.6	26.6	25.5	24.4	23.3	22.0	20.6	19.3	18.3
-82.5°	20.7	19.8	18.8	18.4	18.0	17.5	17.0	16.3	15.7	15.0	14.4
-85°	14.0	13.5	13.0	12.9	12.7	12.5	12.3	12.1	11.9	11.6	11.4
-87.5°	10.4	10.1	9.7	9.7	9.6	9.5	9.4	9.4	9.4	9.3	9.3
-90°	2.1	2.5	2.8	3.2	3.5	3.9	4.2	4.2	4.2	4.2	4.2





REPORT NUMBER: P731451 (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°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.0	7.6	7.3
87.5°	4.5	4.9	5.2	5.5	5.5	5.5	5.5	5.5	5.9	6.2	6.6
85°	4.5	4.9	5.2	5.5	5.5	5.5	5.5	5.5	5.9	6.2	6.6
82.5°	4.6	4.9	5.2	5.5	5.7	5.9	5.9	5.9	6.0	6.2	6.6
80°	5.2	5.2	5.3	5.6	5.9	6.2	6.4	6.5	6.4	6.5	6.6
77.5°	5.7	5.7	5.5	5.6	5.9	6.3	6.6	6.9	6.8	6.7	6.8
75°	6.0	6.2	6.2	6.2	6.2	6.3	6.7	6.9	6.9	6.9	6.8
72.5°	6.0	6.4	6.7	6.9	6.7	6.6	6.7	6.9	6.9	6.9	6.9
70°	6.9	6.6	6.8	6.9	6.9	6.9	6.8	7.0	6.9	6.9	6.9
67.5°	8.4	7.3	6.9	6.9	6.9	6.9	6.9	7.1	7.1	6.9	6.9
65°	16.4	10.7	6.9	6.9	6.9	6.9	6.9	7.2	7.3	7.2	6.9
62.5°	23.0	16.3	11.1	7.9	6.9	6.9	6.9	7.3	7.6	7.5	7.2
60°	27.8	20.2	15.2	11.4	8.3	6.9	7.0	7.3	7.6	7.9	7.5
57.5°	26.9	22.5	18.6	14.5	10.8	8.0	7.1	7.4	7.7	8.0	7.9
55°	23.7	20.4	20.5	17.3	13.2	9.8	7.7	7.5	7.8	8.1	8.3
52.5°	18.5	19.1	20.7	19.4	15.5	11.5	9.1	7.6	7.9	8.1	8.3
50°	14.9	17.6	20.6	20.9	17.6	13.5	10.3	8.5	7.9	8.2	8.3
47.5°	15.2	17.7	19.8	22.3	20.2	15.3	11.7	9.3	8.0	8.3	8.3
45°	17.6	19.5	20.3	21.9	22.4	17.1	13.0	10.1	8.6	8.3	8.3
42.5°	20.9	22.5	23.1	21.9	22.3	18.6	14.1	11.0	9.1	8.4	8.4
40°	28.6	26.4	26.5	26.0	22.7	19.7	15.1	11.7	9.5	8.7	8.5
37.5°	37.6	33.1	30.7	33.2	25.5	20.8	15.8	12.4	10.0	9.1	8.6
35°	49.4	42.4	40.3	42.6	34.5	22.6	16.2	12.8	11.1	9.5	8.8
32.5°	62.8	61.5	61.1	53.3	46.1	25.2	17.5	14.3	12.2	9.8	9.0
30°	94.6	95.4	90.3	65.7	58.9	35.7	20.5	16.2	13.6	10.2	9.2
27.5°	148.1	135.3	126.2	91.4	70.8	48.6	24.8	18.3	15.1	10.8	9.5
25°	205.6	183.5	165.0	126.1	83.8	65.4	29.0	20.7	16.7	12.0	9.8
22.5°	273.3	233.1	207.8	165.7	104.8	84.2	38.0	24.3	18.6	13.2	10.1
20°	340.8	282.3	254.5	203.2	135.5	101.6	52.4	27.7	20.5	14.4	10.3
17.5°	416.6	344.5	305.1	241.1	169.1	121.0	67.6	31.1	22.6	15.6	10.6
15°	566.4	422.6	360.3	282.8	200.1	141.7	83.3	34.2	24.7	16.8	10.9
12.5°	747.5	500.6	419.6	327.4	228.5	163.5	98.9	37.2	26.8	18.1	11.4
10°	946.8	577.7	481.3	373.4	254.5	185.7	114.2	41.6	29.3	19.4	11.9
7.5°	1155.0	653.2	544.1	419.5	283.3	219.8	151.4	49.4	31.8	20.6	12.4
5°	1357.6	725.3	612.5	488.0	338.9	265.4	193.4	57.5	34.3	21.7	12.9
2.5°	1528.6	791.7	680.6	556.2	393.2	309.3	234.9	65.6	36.6	22.7	13.4
0°	1675.4	853.6	744.3	619.8	445.5	351.4	273.9	73.3	38.7	23.5	13.8
-2.5°	1561.0	857.5	751.6	644.0	484.7	385.5	295.7	92.9	50.3	29.7	16.6
-5°	1427.1	857.8	756.7	664.5	521.0	416.8	312.8	111.3	61.3	35.6	19.3
-7.5°	1419.9	861.3	762.8	681.2	554.1	444.8	325.0	128.1	71.5	41.0	21.8
-10°	1402.2	865.0	770.3	684.6	560.9	455.3	330.3	142.8	80.6	45.8	23.9
-12.5°	1330.5	864.6	776.4	683.5	559.0	450.2	320.0	154.3	88.6	49.8	25.7
-15°	1197.3	860.2	781.6	677.7	552.3	442.9	308.1	163.3	97.0	54.2	27.1
-17.5°	986.7	851.6	786.2	667.1	540.5	433.4	295.3	170.1	104.0	59.3	29.1
-20°	891.9	823.0	786.7	651.6	523.2	421.9	282.4	174.6	109.4	63.0	31.5



REPORT NUMBER: P731451 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-1S-CV2

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	830.4	780.1	734.6	630.5	503.5	408.4	270.1	176.6	113.2	65.5	32.9
-25°	764.1	735.2	681.3	586.6	485.5	387.9	264.4	176.1	115.2	66.5	33.4
-27.5°	709.1	686.5	635.3	544.3	458.5	370.0	262.4	177.6	115.7	65.9	33.0
-30°	657.6	639.2	589.6	506.0	430.0	342.9	257.1	176.9	114.9	64.9	31.4
-32.5°	627.7	603.0	545.8	473.2	398.5	314.7	241.6	173.8	111.9	63.1	30.6
-35°	611.7	568.3	505.9	439.2	365.8	290.8	222.4	168.1	106.7	59.8	29.7
-37.5°	593.7	532.1	468.1	403.8	332.8	265.7	205.4	153.2	99.2	54.8	28.0
-40°	552.8	493.0	430.6	367.7	302.9	239.5	186.7	137.2	91.4	48.1	25.6
-42.5°	509.7	450.7	391.7	331.6	273.4	217.3	166.7	120.1	79.4	43.1	22.4
-45°	462.3	407.1	351.8	298.1	243.7	193.5	146.5	102.3	66.2	38.6	20.0
-47.5°	413.8	363.4	313.6	264.0	215.8	168.5	125.0	86.7	52.4	33.0	19.3
-50°	367.2	321.4	276.6	232.4	187.1	143.6	103.6	70.2	44.4	26.0	18.4
-52.5°	329.0	281.9	242.1	201.6	158.7	117.5	84.4	53.8	35.9	22.6	17.3
-55°	291.3	245.8	209.6	169.1	128.8	94.5	64.4	43.9	27.1	20.9	16.1
-57.5°	257.2	213.1	173.1	134.4	101.2	71.7	49.6	33.6	23.5	19.1	15.4
-60°	220.5	172.8	133.1	102.7	74.7	52.9	37.6	25.6	21.4	17.4	14.5
-62.5°	169.6	129.3	98.5	72.3	53.6	39.2	27.1	23.2	19.3	16.3	13.5
-65°	120.8	90.4	65.0	51.2	37.9	27.9	24.4	20.7	17.8	15.2	12.7
-67.5°	73.4	59.1	45.6	33.4	28.2	24.9	21.6	18.9	16.5	14.0	12.0
-70°	49.0	37.0	31.0	27.8	24.8	21.9	19.6	17.4	15.1	13.1	11.2
-72.5°	33.4	30.1	27.0	24.2	21.7	19.5	17.7	15.9	13.9	12.1	10.4
-75°	27.9	25.2	22.8	20.6	18.7	17.1	15.7	14.3	12.6	11.0	9.9
-77.5°	22.2	20.2	18.5	17.1	15.9	14.8	13.8	12.8	11.4	10.4	9.4
-80°	17.3	16.2	15.1	14.1	13.2	12.5	12.0	11.5	10.6	9.7	9.0
-82.5°	13.6	12.8	12.1	11.3	11.0	10.8	10.6	10.4	9.7	9.0	8.5
-85°	10.8	10.2	9.5	8.9	8.9	9.0	9.3	9.5	9.0	8.5	8.1
-87.5°	9.0	8.7	8.5	8.3	8.5	8.7	8.8	8.9	8.5	8.1	7.7
-90°	4.5	4.9	5.2	5.5	5.5	5.5	5.5	5.5	5.9	6.2	6.6



REPORT NUMBER: P731451 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.9	6.9	6.9	6.9	6.9	6.9	6.9
87.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9
85°	6.9	6.9	6.9	6.9	6.9	6.9	6.9
82.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9
80°	6.9	6.9	6.9	6.9	6.9	6.9	6.9
77.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9
75°	6.9	6.9	6.9	6.9	6.9	6.9	6.9
72.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9
70°	6.9	6.9	6.9	6.9	6.9	6.9	6.9
67.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9
65°	7.0	7.0	6.9	6.9	6.9	6.9	6.9
62.5°	7.1	7.1	6.9	6.9	6.9	6.9	6.9
60°	7.2	7.2	6.9	6.9	6.9	6.9	6.9
57.5°	7.4	7.3	7.0	6.9	6.9	6.9	6.9
55°	7.7	7.5	7.2	6.9	6.9	6.9	6.9
52.5°	7.9	7.6	7.3	6.9	6.9	6.9	6.9
50°	8.1	7.8	7.5	6.9	6.9	6.9	6.9
47.5°	8.3	7.9	7.6	6.9	6.9	6.9	6.9
45°	8.3	8.0	7.8	7.1	6.9	6.9	6.9
42.5°	8.3	8.1	8.0	7.2	6.9	6.9	6.9
40°	8.3	8.2	8.1	7.3	6.9	6.9	6.9
37.5°	8.3	8.3	8.2	7.4	6.9	6.9	6.9
35°	8.3	8.3	8.2	7.5	6.9	6.9	6.9
32.5°	8.3	8.3	8.3	7.6	6.9	6.9	6.9
30°	8.5	8.3	8.3	7.7	6.9	6.9	6.9
27.5°	8.6	8.3	8.3	7.8	6.9	6.9	6.9
25°	8.8	8.3	8.3	7.9	6.9	6.9	6.9
22.5°	9.0	8.3	8.3	8.0	6.9	6.9	6.9
20°	9.2	8.4	8.3	8.0	6.9	6.9	6.9
17.5°	9.4	8.6	8.3	8.1	6.9	6.9	6.9
15°	9.7	8.7	8.3	8.2	6.9	6.9	6.9
12.5°	10.0	8.9	8.3	8.2	6.9	6.9	6.9
10°	10.2	9.0	8.3	8.2	6.9	6.9	6.9
7.5°	10.5	9.2	8.3	8.3	6.9	6.9	6.9
5°	10.7	9.4	8.3	8.3	6.9	6.9	6.9
2.5°	10.9	9.5	8.3	8.3	6.9	6.9	6.9
0°	11.1	9.7	8.3	8.3	6.9	6.9	6.9
-2.5°	11.8	9.8	8.4	8.3	7.0	6.9	6.9
-5°	12.5	10.0	8.5	8.3	7.0	6.9	6.9
-7.5°	13.1	10.1	8.7	8.3	7.1	6.9	6.9
-10°	13.7	10.2	8.8	8.3	7.1	6.9	6.9
-12.5°	14.2	10.3	8.9	8.2	7.2	6.9	6.9
-15°	14.5	10.4	8.9	8.2	7.2	6.9	6.9
-17.5°	14.7	10.4	9.0	8.2	7.3	6.9	6.9
-20°	15.2	10.5	9.0	8.2	7.3	6.9	6.9



REPORT NUMBER: P731451 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-70-1S-CV2

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	16.1	10.5	9.0	8.2	7.4	6.9	6.9
-25°	16.6	10.8	9.0	8.2	7.4	6.9	6.9
-27.5°	16.8	11.1	9.0	8.2	7.4	6.9	6.9
-30°	16.4	11.3	9.0	8.2	7.4	6.9	6.9
-32.5°	15.6	11.4	9.0	8.2	7.4	6.9	6.9
-35°	15.4	11.5	9.1	8.2	7.4	6.9	6.9
-37.5°	15.4	11.5	9.1	8.2	7.4	6.9	6.9
-40°	15.3	11.4	9.0	8.3	7.4	6.9	6.9
-42.5°	15.0	11.4	9.0	8.3	7.3	6.9	6.9
-45°	14.6	11.2	9.1	8.4	7.3	6.9	6.9
-47.5°	14.1	11.0	9.1	8.4	7.3	6.9	6.9
-50°	13.7	10.8	9.1	8.3	7.2	6.9	6.9
-52.5°	13.3	10.5	9.1	8.2	7.1	6.9	6.9
-55°	12.8	10.3	9.0	8.1	7.1	6.9	6.9
-57.5°	12.2	10.1	8.9	7.9	7.0	6.9	6.9
-60°	11.6	9.9	8.8	7.8	6.9	6.9	6.9
-62.5°	11.2	9.7	8.6	7.7	6.9	6.9	6.9
-65°	10.8	9.4	8.4	7.5	6.9	6.9	6.9
-67.5°	10.2	9.1	8.2	7.4	6.9	6.9	6.9
-70°	9.7	8.8	8.0	7.2	6.9	6.9	6.9
-72.5°	9.3	8.6	7.8	7.2	6.9	6.9	6.9
-75°	9.0	8.3	7.6	7.1	6.9	6.9	6.9
-77.5°	8.7	8.0	7.5	7.1	6.9	6.9	6.9
-80°	8.3	7.8	7.4	7.1	6.9	6.9	6.9
-82.5°	8.0	7.6	7.3	7.0	6.9	6.9	6.9
-85°	7.6	7.4	7.1	7.0	6.9	6.9	6.9
-87.5°	7.3	7.1	7.0	6.9	6.9	6.9	6.9
-90°	6.9	6.9	6.9	6.9	6.9	6.9	6.9

(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

