

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: P731320 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-4S-CV5**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731320 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-70-4S-CV5  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

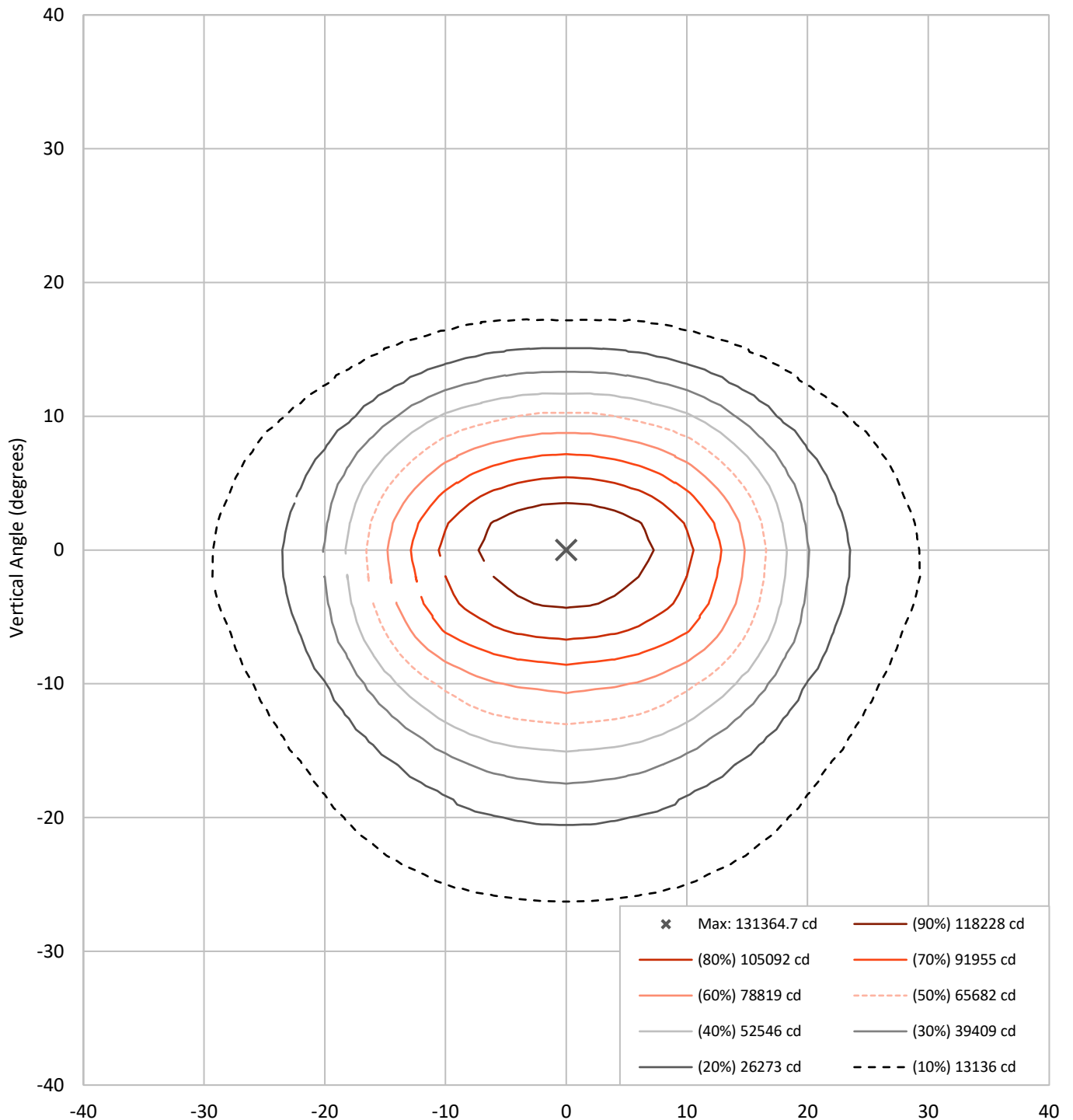
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 3V
Luminaire Lumens:	34678 lumens	Max Intensity:	131364.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	100.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.1°H x 23.4°V	Field Angle (10%):	58.5°H x 43.2°V
Beam Lumens:	17545.9 lumens	Field Lumens:	29906.7 lumens
Beam Efficiency:	50.6%	Field Efficiency:	86.2%

Input Watts (W): 345.8  
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-08-0320N-40-70-4S-CV5

### Iso-Candela Plot





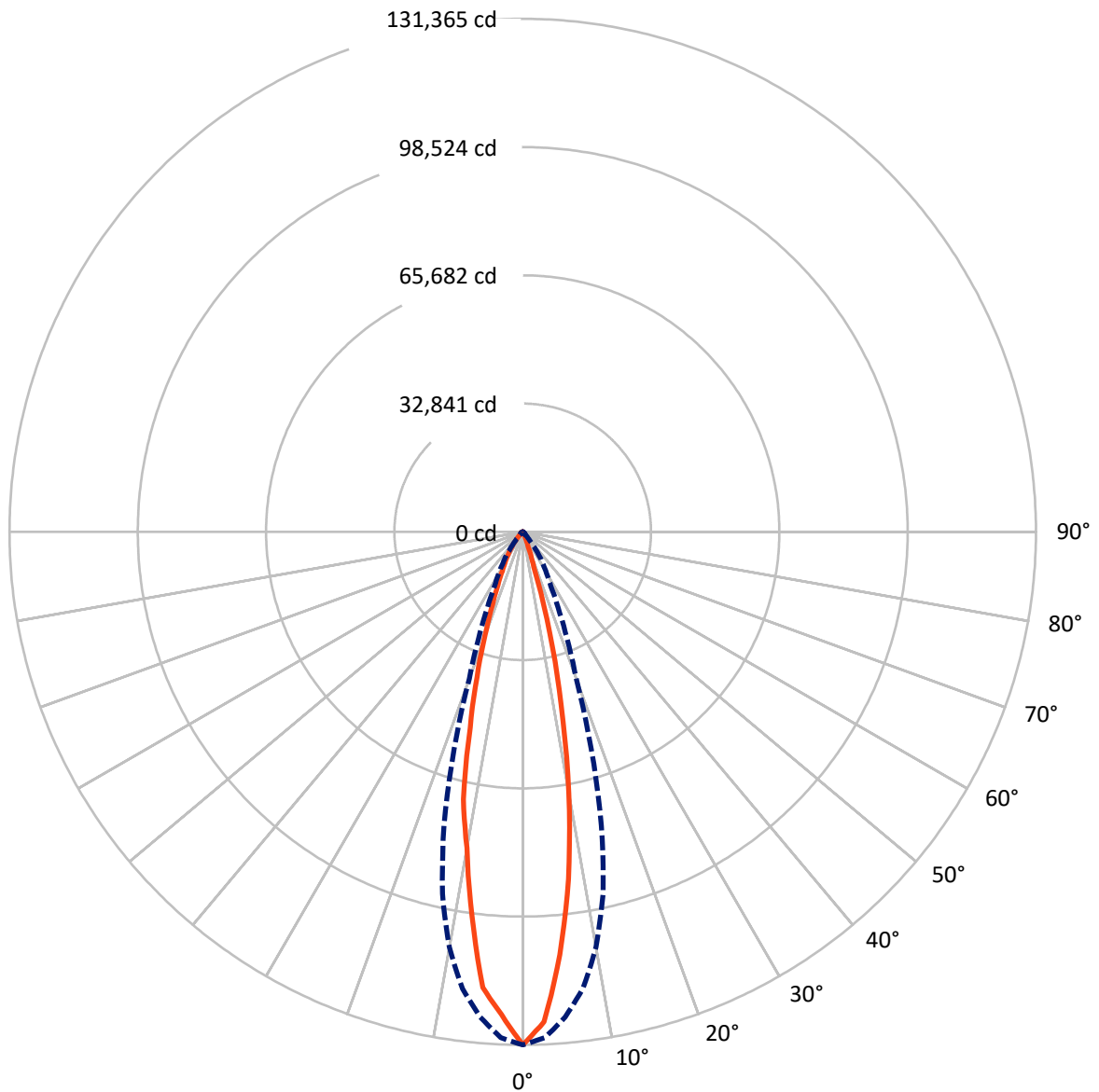
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### Lumen Table

90																
80	0.1	0.3		0.5		0.5		0.3		0.5		0.5		0.3		0.1
70																
60	0.1	0.1	0.1	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.1	0.1	0.1
50		0.1	0.2	0.5	0.5	0.2	0.1	0.1	0.1	0.1	0.2	0.5	0.5	0.2	0.1	
40	0.1	0.1	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.1	0.1
30		0.1	0.3	0.5	0.7	1.5	2.7	4.0	4.0	2.7	1.5	0.7	0.5	0.3	0.1	
20	0.2	0.2	0.9	1.9	5.2	14.5	30.0	49.8	49.8	30.0	14.5	5.2	1.9	0.9	0.2	0.2
10		0.6	3.0	7.8	46.8	146.2	445.5	832.8	832.8	445.5	146.2	46.8	7.8	3.0	0.6	
0	0.2	1.1	6.0	19.7	145.3	511.8	1771.8	3015.1	3015.1	1771.8	511.8	145.3	19.7	6.0	1.1	0.2
-10		1.5	7.4	23.7	161.9	564.7	1951.5	3203.6	3203.6	1951.5	564.7	161.9	23.7	7.4	1.5	
-20	0.3	1.6	6.6	16.6	95.9	311.2	863.6	1517.8	1517.8	863.6	311.2	95.9	16.6	6.6	1.6	0.3
-30		1.5	5.5	11.1	40.1	155.6	320.6	466.9	466.9	320.6	155.6	40.1	11.1	5.5	1.5	
-40	0.3	1.3	4.6	8.7	16.3	48.4	110.0	156.1	156.1	110.0	48.4	16.3	8.7	4.6	1.3	0.3
-50		0.8	3.3	7.1	11.6	17.3	25.0	32.9	32.9	25.0	17.3	11.6	7.1	3.3	0.8	
-60	0.2	0.4	1.7	4.6	8.2	11.4	14.0	15.7	15.7	14.0	11.4	8.2	4.6	1.7	0.4	0.2
-70		0.2	0.6	1.7	3.4	5.5	7.4	8.5	8.5	7.4	5.5	3.4	1.7	0.6	0.2	
-80																
-90	0.1	0.5		1.7		4.3		6.1		4.3		1.7		0.5		0.1

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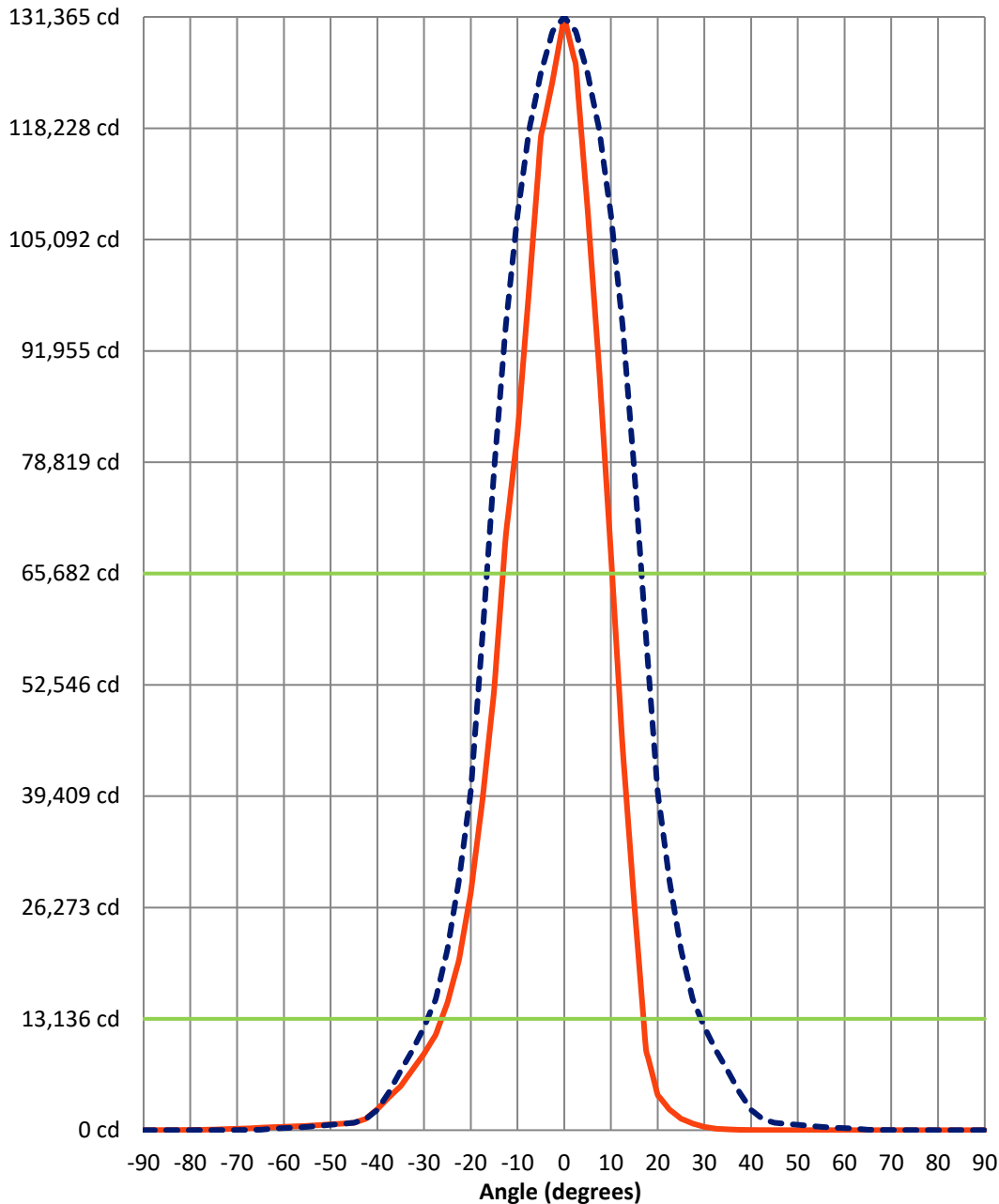
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 33.1°  
 V Angle: 23.4°  
 Lumens: 17545.9  
 Efficiency: 50.6%

**Field:**  
 H Angle: 58.5°  
 V Angle: 43.2°  
 Lumens: 29906.7  
 Efficiency: 86.2%

**Spill:**  
 Lumens: 4771.3  
 Efficiency: 13.8%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.8	5.4	6.0	5.7	5.4	5.1	4.8	5.1	5.4	5.7	6.0
87.5°	4.8	4.9	4.9	5.0	5.0	5.1	5.1	5.1	5.0	4.9	4.8
85°	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.3	5.2	5.0	4.8
82.5°	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.6	5.4	5.2	5.1
80°	4.8	5.0	5.2	5.4	5.6	5.8	6.0	5.8	5.6	5.6	5.6
77.5°	4.8	5.1	5.3	5.6	5.8	6.0	6.0	5.9	5.8	5.9	6.0
75°	4.8	5.1	5.4	5.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	4.8	5.2	5.5	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0
70°	4.8	5.2	5.6	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
67.5°	4.8	5.3	5.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
65°	4.8	5.3	5.8	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
62.5°	4.8	5.4	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
60°	4.8	5.4	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
57.5°	4.8	5.4	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
55°	4.8	5.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
52.5°	4.8	5.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
50°	4.8	5.6	6.0	6.0	6.0	6.0	6.0	6.1	6.0	6.0	6.5
47.5°	4.8	5.6	6.0	6.0	6.0	6.0	6.0	6.2	6.0	6.0	7.1
45°	4.8	5.6	6.0	6.0	6.0	6.0	6.1	6.3	6.1	6.4	7.5
42.5°	4.8	5.7	6.0	6.0	6.0	6.0	6.2	6.4	6.1	6.7	7.8
40°	4.8	5.7	6.0	6.0	6.0	6.0	6.4	6.4	6.3	7.0	8.1
37.5°	4.8	5.8	6.0	6.0	6.0	6.0	6.5	6.5	6.7	7.4	8.3
35°	4.8	5.8	6.0	6.0	6.0	6.1	6.7	6.6	7.0	7.9	8.5
32.5°	4.8	5.8	6.0	6.0	6.0	6.2	6.8	6.6	7.3	8.6	9.4
30°	4.8	5.8	6.0	6.0	6.0	6.3	6.9	6.8	7.6	9.4	10.4
27.5°	4.8	5.9	6.0	6.0	6.0	6.5	7.0	7.0	8.1	10.2	11.6
25°	4.8	5.9	6.0	6.0	6.0	6.6	7.0	7.3	8.7	11.2	12.9
22.5°	4.8	5.9	6.0	6.0	6.0	6.7	7.1	7.5	9.4	12.2	15.4
20°	4.8	5.9	6.0	6.0	6.0	6.8	7.2	7.7	10.2	13.3	18.1
17.5°	4.8	5.9	6.0	6.0	6.0	6.9	7.3	7.9	10.9	14.5	20.9
15°	4.8	6.0	6.0	6.0	6.0	7.0	7.4	8.3	11.7	15.6	23.8
12.5°	4.8	6.0	6.0	6.0	6.0	7.1	7.5	8.9	12.8	16.8	26.7
10°	4.8	6.0	6.0	6.0	6.0	7.1	7.7	9.5	14.2	19.3	30.5
7.5°	4.8	6.0	6.0	6.0	6.0	7.1	7.9	10.2	15.5	22.0	36.3
5°	4.8	6.0	6.0	6.0	6.0	7.2	8.1	10.8	16.8	24.7	41.9
2.5°	4.8	6.0	6.0	6.0	6.0	7.2	8.2	11.4	18.1	27.4	47.5
0°	4.8	6.0	6.0	6.0	6.0	7.2	8.4	12.0	19.2	30.0	52.7
-2.5°	4.8	6.0	6.0	6.0	6.0	7.3	9.2	13.7	22.6	36.3	62.2
-5°	4.8	6.0	6.0	6.0	6.0	7.4	9.9	15.3	25.9	42.3	71.1
-7.5°	4.8	6.0	6.0	6.0	6.0	7.5	10.6	16.7	28.8	47.8	79.2
-10°	4.8	6.0	6.0	6.0	6.0	7.6	11.2	18.0	31.4	52.6	86.3
-12.5°	4.8	6.0	6.0	6.0	6.0	7.6	11.7	19.2	33.6	56.8	92.5
-15°	4.8	6.0	6.0	6.0	6.0	7.6	12.1	20.1	35.6	60.8	97.8
-17.5°	4.8	6.0	6.0	6.0	6.0	7.6	12.3	21.1	37.5	63.9	101.6
-20°	4.8	5.9	6.0	6.0	6.0	7.6	12.5	22.0	38.7	65.9	104.1



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.8	5.9	6.0	6.0	6.0	7.5	12.8	22.6	39.2	66.8	105.0
-25°	4.8	5.9	6.0	6.0	6.0	7.5	12.9	22.9	38.7	66.5	104.3
-27.5°	4.8	5.9	6.0	6.0	6.0	7.4	12.7	22.9	37.4	65.3	103.6
-30°	4.8	5.9	6.0	6.0	6.0	7.3	12.2	22.5	36.6	63.7	101.4
-32.5°	4.8	5.9	6.0	6.0	6.1	7.2	11.5	21.9	36.0	60.9	97.5
-35°	4.8	5.8	6.0	6.0	6.2	6.9	11.1	21.0	35.0	56.9	91.8
-37.5°	4.8	5.8	6.0	6.0	6.3	6.6	10.7	19.8	33.4	51.5	82.7
-40°	4.8	5.8	6.0	6.0	6.4	6.7	10.2	18.1	31.3	48.0	73.6
-42.5°	4.8	5.8	6.0	6.0	6.4	6.8	9.5	16.0	28.9	44.1	63.8
-45°	4.8	5.8	6.0	6.0	6.5	6.9	8.6	14.1	26.0	39.5	54.1
-47.5°	4.8	5.8	6.0	6.1	6.5	7.0	7.7	12.9	22.6	34.4	48.4
-50°	4.8	5.7	6.0	6.1	6.5	7.1	7.6	11.5	18.2	29.5	42.1
-52.5°	4.8	5.7	6.0	6.1	6.5	7.2	7.7	9.9	15.3	24.2	35.5
-55°	4.8	5.7	6.0	6.1	6.5	7.2	7.8	8.3	13.1	18.6	29.1
-57.5°	4.8	5.7	6.0	6.1	6.5	7.1	7.9	8.4	10.8	15.3	22.4
-60°	4.8	5.7	6.0	6.1	6.4	7.0	7.9	8.4	9.0	12.8	16.7
-62.5°	4.8	5.6	6.0	6.1	6.4	7.0	7.8	8.4	8.8	10.2	14.0
-65°	4.8	5.6	6.0	6.1	6.3	6.8	7.6	8.3	8.7	9.4	11.2
-67.5°	4.8	5.6	6.0	6.0	6.3	6.7	7.4	8.0	8.4	8.9	9.8
-70°	4.8	5.6	6.0	6.0	6.2	6.6	7.1	7.6	8.0	8.4	9.1
-72.5°	4.8	5.6	6.0	6.0	6.1	6.4	6.9	7.3	7.6	8.0	8.3
-75°	4.8	5.5	6.0	5.9	6.0	6.2	6.6	6.9	7.2	7.5	7.8
-77.5°	4.8	5.5	6.0	5.9	5.9	6.1	6.3	6.6	6.8	7.1	7.3
-80°	4.8	5.5	6.0	5.9	5.8	5.9	6.0	6.2	6.4	6.6	6.8
-82.5°	4.8	5.5	6.0	5.8	5.7	5.7	5.7	5.9	6.0	6.2	6.3
-85°	4.8	5.5	6.0	5.8	5.6	5.5	5.4	5.6	5.8	5.9	6.0
-87.5°	4.8	5.4	6.0	5.7	5.5	5.3	5.1	5.4	5.6	5.8	6.0
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	5.7	5.4	5.1	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.5	4.2	3.9
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.6	4.5	4.4
82.5°	5.2	5.1	5.0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	5.6	5.4	5.1	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	5.8	5.5	5.2	4.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	5.8	5.5	5.2	4.9	4.8	4.8	4.8	5.1	5.2	5.2	5.1
72.5°	5.8	5.5	5.2	5.0	5.1	5.3	5.6	5.9	6.2	6.3	6.5
70°	5.9	5.6	5.5	5.5	5.8	6.1	6.6	7.3	7.9	8.4	9.1
67.5°	5.9	5.8	5.8	6.1	6.5	7.1	7.8	9.4	11.0	12.0	13.0
65°	6.0	6.0	6.1	6.5	7.1	8.7	10.4	12.3	15.3	17.0	17.7
62.5°	6.0	6.1	6.4	7.3	9.0	10.8	13.3	16.6	20.6	23.4	23.5
60°	6.0	6.1	7.1	8.8	10.8	13.1	16.3	20.9	26.7	31.1	28.4
57.5°	6.0	6.7	8.4	10.2	12.3	14.9	19.2	24.9	30.5	36.4	31.3
55°	6.3	7.7	9.3	11.2	13.5	16.4	20.9	25.7	31.8	33.6	27.7
52.5°	7.1	8.5	9.9	11.9	14.5	17.1	19.9	24.1	26.0	26.4	22.0
50°	7.8	8.9	10.2	12.4	15.0	16.8	17.4	19.9	20.0	18.2	15.8
47.5°	8.2	9.2	10.3	12.7	15.0	16.1	15.8	15.2	13.9	12.9	10.0
45°	8.6	9.6	10.6	13.0	14.9	15.2	13.9	11.0	11.4	10.2	9.5
42.5°	8.9	9.9	11.5	13.4	14.6	14.5	12.5	11.6	10.8	10.5	10.3
40°	9.2	10.3	12.7	14.3	14.6	14.2	14.2	13.6	11.7	12.5	12.6
37.5°	9.4	11.4	14.3	16.7	15.1	15.9	17.0	17.3	16.3	15.9	17.5
35°	9.7	12.7	17.5	20.1	18.7	19.2	21.5	22.4	22.7	22.6	23.8
32.5°	10.5	14.0	21.7	24.3	25.0	25.4	27.0	29.3	31.9	33.0	31.7
30°	12.1	18.0	26.6	29.4	32.5	37.0	36.0	37.7	43.6	46.0	48.2
27.5°	14.9	23.1	31.5	36.2	41.8	52.0	55.6	51.9	56.9	61.7	68.9
25°	18.0	36.0	36.9	44.0	56.5	71.8	81.6	85.8	74.6	82.9	102.3
22.5°	25.0	53.0	56.4	52.2	73.5	96.1	115.4	125.8	124.4	116.4	142.4
20°	37.4	70.1	79.1	80.8	97.0	124.0	154.1	171.7	188.3	217.3	293.4
17.5°	51.8	89.0	103.3	117.7	147.1	171.1	196.9	223.0	262.5	348.7	607.0
15°	67.9	109.4	128.5	157.9	201.6	241.9	273.3	296.7	366.4	547.1	1003.8
12.5°	85.0	130.9	154.6	200.4	259.1	316.2	360.8	407.9	525.2	880.5	1634.8
10°	102.6	153.1	181.1	244.4	318.4	392.9	450.7	521.7	705.0	1257.9	2323.5
7.5°	122.1	176.7	208.2	288.9	378.5	470.7	541.8	636.4	888.4	1639.3	3016.5
5°	141.1	201.5	237.0	327.2	429.0	539.0	626.9	749.7	1069.9	2009.1	3689.8
2.5°	158.5	225.5	265.2	362.2	471.5	590.9	685.0	817.5	1195.6	2252.0	4185.5
0°	173.8	248.1	292.5	394.4	510.6	638.9	739.6	879.8	1297.0	2398.5	4481.8
-2.5°	179.6	256.8	303.7	402.5	516.1	647.1	749.7	885.2	1328.1	2458.0	4525.5
-5°	183.0	263.5	313.5	407.8	517.9	650.2	755.6	885.2	1320.3	2406.5	4312.8
-7.5°	184.1	268.1	321.8	408.5	508.2	629.4	726.0	838.7	1216.3	2193.7	3854.1
-10°	183.0	267.4	319.3	393.4	482.8	592.7	686.4	788.0	1096.3	1926.8	3344.1
-12.5°	179.6	262.5	314.5	377.5	456.5	553.3	644.9	733.9	963.0	1609.2	2818.8
-15°	175.1	256.7	309.5	361.3	430.1	511.9	602.0	677.1	824.4	1270.2	2297.4
-17.5°	169.8	250.3	304.6	345.4	404.2	469.0	560.0	629.7	722.1	1054.2	1877.9
-20°	163.9	243.5	299.9	330.3	380.0	436.5	519.7	590.4	668.6	883.8	1428.0



REPORT NUMBER: P731320 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	157.7	236.5	293.0	321.9	364.2	414.1	479.0	548.9	614.2	695.7	1046.1
-25°	154.6	226.3	282.9	316.2	349.4	392.4	439.8	505.3	563.7	642.0	844.1
-27.5°	153.2	216.7	270.8	309.8	334.9	372.6	411.8	462.4	529.2	598.5	671.7
-30°	149.6	202.5	258.4	300.9	325.8	356.4	389.3	432.2	496.0	560.0	624.7
-32.5°	140.8	187.4	242.5	286.6	317.4	341.1	373.1	412.5	463.7	522.4	580.5
-35°	129.5	174.2	224.5	272.3	307.8	330.9	359.9	393.8	433.8	486.5	548.6
-37.5°	118.1	159.5	205.7	255.2	292.3	322.7	345.9	376.7	411.5	453.2	514.3
-40°	105.4	143.3	187.6	234.0	277.5	310.9	336.6	359.9	390.0	431.0	474.7
-42.5°	91.8	127.9	168.4	211.9	255.2	293.4	326.1	348.1	373.6	409.1	449.0
-45°	80.3	111.1	148.1	188.2	228.9	271.1	305.9	337.8	361.1	388.1	423.6
-47.5°	68.1	94.2	127.9	162.9	201.3	240.8	281.5	315.3	348.2	372.8	398.0
-50°	56.7	80.1	106.0	138.5	172.3	209.1	247.0	287.1	321.7	353.5	380.9
-52.5°	49.0	65.3	88.2	113.9	144.2	176.2	211.7	248.5	286.4	322.6	351.1
-55°	40.7	54.5	70.7	92.4	116.9	145.0	175.5	209.3	242.8	278.2	310.7
-57.5°	32.7	44.5	57.1	72.4	93.0	115.0	141.9	170.1	200.7	231.0	256.8
-60°	24.7	35.0	46.2	57.6	70.2	89.4	109.0	132.7	158.8	184.0	206.6
-62.5°	17.4	25.9	35.6	45.8	56.0	66.0	81.7	99.4	117.2	138.5	158.3
-65°	14.5	18.0	25.2	34.2	43.5	52.7	61.6	70.4	85.1	100.1	114.1
-67.5°	11.5	14.7	18.0	22.4	30.6	38.8	47.3	55.3	63.1	70.7	79.4
-70°	10.2	11.5	14.1	17.1	20.2	24.3	31.5	38.9	46.6	54.3	61.0
-72.5°	9.2	10.4	11.6	12.8	15.3	17.9	20.5	22.9	27.7	34.4	41.1
-75°	8.4	9.3	10.5	11.6	12.6	13.7	15.0	17.2	19.4	21.7	24.0
-77.5°	7.7	8.3	9.1	10.1	11.1	11.9	12.8	13.8	14.8	15.9	17.0
-80°	7.0	7.2	7.6	8.2	9.0	9.8	10.5	11.3	12.0	12.8	13.6
-82.5°	6.5	6.6	6.7	6.9	7.2	7.6	8.2	8.8	9.2	9.6	10.1
-85°	6.0	6.0	6.1	6.2	6.3	6.5	6.7	7.0	7.1	7.3	7.4
-87.5°	5.8	5.7	5.6	5.5	5.5	5.6	5.6	5.6	5.7	5.7	5.8
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.5	4.2	3.9



REPORT NUMBER: P731320 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8
87.5°	3.6	3.6	3.6	3.6	3.6	3.3	3.0	2.7	2.4	2.1	1.8
85°	4.4	4.2	4.0	3.8	3.6	3.3	3.0	2.7	2.4	2.1	1.8
82.5°	4.8	4.5	4.2	3.9	3.6	3.3	3.0	2.7	2.4	2.1	1.8
80°	4.8	4.5	4.2	3.9	3.6	3.3	3.0	2.7	2.4	2.1	1.8
77.5°	4.8	4.6	4.3	4.0	3.7	3.4	3.1	2.7	2.4	2.4	2.4
75°	4.9	4.7	4.6	4.5	4.2	4.0	3.8	3.6	3.4	3.2	3.0
72.5°	6.6	6.6	6.4	6.3	5.9	5.6	5.4	5.1	4.7	4.4	4.1
70°	9.8	10.2	9.9	9.3	8.2	7.4	6.9	6.4	5.9	5.4	4.9
67.5°	13.7	13.7	12.7	11.4	9.7	8.2	7.6	6.9	6.3	5.9	5.9
65°	17.7	16.5	14.9	12.9	10.5	8.3	7.7	7.0	6.4	6.0	6.0
62.5°	22.2	18.5	14.9	12.3	10.1	8.3	7.4	6.6	5.7	5.1	5.0
60°	23.8	17.7	12.7	10.6	8.8	7.4	6.5	5.8	5.2	4.8	4.8
57.5°	23.1	15.8	10.3	8.5	7.2	6.3	5.6	5.1	4.5	4.0	3.9
55°	19.7	12.9	7.7	6.6	5.9	5.3	4.7	4.3	4.0	3.6	3.6
52.5°	14.5	9.9	6.9	5.8	5.5	5.1	4.8	4.6	4.5	4.4	4.3
50°	10.6	7.6	6.6	5.9	5.7	5.7	5.8	5.8	5.7	5.6	5.4
47.5°	8.6	7.5	6.7	6.1	6.2	6.8	7.0	7.0	6.9	6.8	6.6
45°	8.3	7.7	7.3	7.7	8.1	8.4	8.4	8.2	8.6	8.7	8.6
42.5°	9.2	9.3	10.0	10.6	10.2	10.9	11.6	11.5	12.1	12.5	12.5
40°	12.9	12.6	14.5	15.0	15.3	16.0	18.0	17.8	18.7	21.3	21.7
37.5°	18.5	19.6	20.8	22.0	25.2	27.2	31.2	34.4	36.1	40.9	44.7
35°	26.2	28.7	29.5	35.8	42.3	48.5	54.1	60.8	63.7	74.4	81.8
32.5°	37.0	42.4	49.6	60.1	72.6	87.3	86.7	109.1	117.3	139.2	164.4
30°	51.7	66.8	90.7	107.3	137.9	161.8	173.9	209.0	256.2	301.2	362.5
27.5°	84.1	115.8	159.2	216.3	246.0	282.2	336.8	378.8	486.4	589.1	664.6
25°	144.7	211.2	293.0	377.4	430.2	477.6	577.4	650.7	803.3	917.8	1081.2
22.5°	276.7	418.9	522.3	585.0	698.4	846.6	918.6	1120.1	1346.3	1635.1	1873.8
20°	466.3	690.0	920.6	1061.4	1190.9	1518.1	1661.5	2039.0	2519.9	3063.3	3516.4
17.5°	912.5	1116.8	1586.2	2043.6	2387.7	2710.8	3617.7	4265.5	5522.8	7061.6	7771.4
15°	1637.4	2208.6	2756.3	3585.9	4463.9	5440.7	6863.7	9320.7	12406.6	15771.6	19411.4
12.5°	2654.5	3697.1	4676.9	5721.2	6978.1	9378.2	12622.9	16914.0	22458.9	28408.0	35277.1
10°	3797.1	5383.9	6815.0	8391.7	10623.4	14189.1	18998.3	25618.1	35492.6	45586.2	54341.4
7.5°	4820.4	6742.1	8683.4	10965.4	14503.0	19595.6	26514.7	36850.6	49745.8	62236.7	72887.1
5°	5800.9	8045.9	10258.5	12978.5	17437.0	24083.3	33038.0	47217.7	63519.4	77379.0	89051.4
2.5°	6564.9	9066.1	11598.1	14797.2	19883.8	27445.9	37616.6	54779.3	74454.7	89825.6	103172.3
0°	7002.6	9401.2	12149.7	15464.1	21317.2	29554.4	39985.3	58260.2	77854.9	94936.5	107979.9
-2.5°	6917.0	9430.3	12240.2	15593.1	21141.0	29049.4	39331.9	56764.9	76267.6	91666.6	104305.3
-5°	6480.3	8779.8	11257.1	14198.7	19094.1	26300.2	36396.2	52778.5	70878.1	86280.7	99126.1
-7.5°	5799.4	7832.8	9989.4	12549.7	16689.9	22960.2	31638.4	44394.0	60430.4	74380.3	84008.1
-10°	5056.2	6845.4	8791.6	11108.6	14374.0	19289.6	25864.9	35079.3	48195.1	59819.1	68749.7
-12.5°	4351.5	5978.1	7671.1	9605.8	12077.4	15949.2	20946.6	27825.8	36280.5	45835.6	54957.7
-15°	3675.7	5104.1	6581.5	8372.4	10521.8	13148.7	16508.2	21136.7	26691.3	32954.0	39709.9
-17.5°	3032.4	4286.7	5676.6	7240.4	9016.6	11023.5	13841.1	17014.9	20541.3	24621.8	28490.6
-20°	2379.1	3537.9	4799.2	6191.4	7784.9	9614.5	11619.4	14003.4	16554.6	19342.6	22236.7



REPORT NUMBER: P731320 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1815.7	2803.3	3906.8	5174.2	6670.4	8283.1	9838.2	11403.0	13290.5	15129.2	16975.9
-25°	1271.5	2054.6	3085.0	4296.6	5566.9	6914.8	8069.0	9171.9	10482.7	11661.5	12889.1
-27.5°	935.1	1473.2	2325.3	3399.9	4539.2	5463.7	6435.4	7340.1	8289.2	9037.4	9902.1
-30°	713.1	1022.9	1656.0	2494.2	3408.4	4214.0	4963.9	5783.2	6563.6	7213.1	7756.7
-32.5°	650.3	768.4	1088.9	1672.8	2333.6	3048.4	3697.3	4410.4	5065.0	5605.3	6038.0
-35°	611.2	675.2	768.7	1063.4	1450.8	2015.2	2556.7	3140.7	3683.3	4128.9	4487.3
-37.5°	577.8	634.0	689.1	744.5	957.9	1195.9	1586.7	2009.5	2376.0	2783.5	3101.7
-40°	536.3	599.3	643.9	689.4	740.7	800.2	1006.5	1191.6	1398.9	1686.6	1924.8
-42.5°	490.7	544.0	599.5	644.1	683.6	725.6	772.4	818.7	914.0	1035.0	1133.4
-45°	460.9	496.0	536.3	586.9	633.1	668.1	702.8	736.5	768.3	797.0	820.9
-47.5°	428.8	458.5	491.2	526.0	560.2	599.1	635.6	666.1	690.3	713.3	733.9
-50°	400.1	422.1	449.7	476.7	503.6	531.3	558.6	582.1	605.5	626.5	647.0
-52.5°	376.9	395.5	413.6	431.7	453.6	474.9	495.0	513.2	529.7	544.1	559.2
-55°	337.8	361.2	384.4	400.6	414.4	427.7	441.0	456.0	469.1	480.4	491.0
-57.5°	284.8	313.1	338.9	357.9	375.8	392.6	404.3	412.9	421.3	429.2	436.4
-60°	228.6	249.8	274.5	298.8	321.1	341.4	354.5	365.6	375.1	383.0	390.0
-62.5°	176.7	194.8	215.0	234.6	252.6	270.4	287.8	302.9	315.9	326.9	335.9
-65°	128.7	144.6	161.8	178.3	194.2	209.9	224.3	237.4	249.2	259.8	269.6
-67.5°	91.6	103.3	115.7	127.0	139.6	153.3	166.9	179.0	189.8	198.4	204.8
-70°	67.4	74.0	82.2	91.8	102.3	112.2	121.9	131.3	140.2	147.9	154.7
-72.5°	47.9	54.7	61.2	67.3	73.8	80.3	86.9	93.8	100.8	106.7	111.9
-75°	26.3	29.7	35.2	40.5	45.7	50.7	55.1	59.0	62.3	65.1	67.5
-77.5°	18.7	20.9	23.2	25.4	27.6	30.2	33.0	35.7	38.4	40.6	42.6
-80°	14.4	15.7	17.0	18.5	19.9	21.7	23.6	25.5	27.4	28.7	29.9
-82.5°	10.6	11.5	12.4	13.3	14.2	15.3	16.5	17.6	18.7	19.4	20.2
-85°	7.5	8.1	8.8	9.4	10.1	11.1	12.1	13.1	14.1	14.8	15.5
-87.5°	5.8	6.2	6.5	6.9	7.2	8.1	9.0	9.9	10.8	11.1	11.4
-90°	3.6	3.6	3.6	3.6	3.6	3.3	3.0	2.7	2.4	2.1	1.8



REPORT NUMBER: P731320 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	11.4	12.0	12.0	12.0	12.0	12.0	11.4	10.8	10.2	9.6	9.0
87.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.7
85°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.7
82.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.7
80°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.7
77.5°	2.4	2.4	1.8	1.2	1.8	2.4	2.4	2.4	2.4	2.4	2.7
75°	2.7	2.4	1.8	1.2	1.8	2.4	2.7	3.0	3.2	3.4	3.6
72.5°	3.9	3.6	3.6	3.6	3.6	3.6	3.9	4.1	4.4	4.7	5.1
70°	4.3	3.7	3.6	3.6	3.6	3.7	4.3	4.9	5.4	5.9	6.4
67.5°	5.9	5.9	6.0	6.0	6.0	5.9	5.9	5.9	5.9	6.3	6.9
65°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.4	7.0
62.5°	4.9	4.9	4.8	4.8	4.8	4.9	4.9	5.0	5.1	5.7	6.6
60°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.2	5.8
57.5°	3.7	3.7	3.6	3.6	3.6	3.7	3.7	3.9	4.0	4.5	5.1
55°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.0	4.3
52.5°	4.1	3.7	3.6	3.6	3.6	3.7	4.1	4.3	4.4	4.5	4.6
50°	5.2	4.9	4.8	4.8	4.8	4.9	5.2	5.4	5.6	5.7	5.8
47.5°	6.4	6.1	6.0	6.0	6.0	6.1	6.4	6.6	6.8	6.9	7.0
45°	8.2	7.6	7.2	7.2	7.2	7.6	8.2	8.6	8.7	8.6	8.2
42.5°	12.4	12.1	11.9	12.0	11.9	12.1	12.4	12.5	12.5	12.1	11.5
40°	22.8	23.4	23.7	24.0	23.7	23.4	22.8	21.7	21.3	18.7	17.8
37.5°	46.7	45.9	43.8	44.4	43.8	45.9	46.7	44.7	40.9	36.1	34.4
35°	86.7	91.9	95.6	98.3	95.6	91.9	86.7	81.8	74.4	63.7	60.8
32.5°	173.7	180.9	178.8	175.0	178.8	180.9	173.7	164.4	139.2	117.3	109.1
30°	398.7	419.6	413.9	389.6	413.9	419.6	398.7	362.5	301.2	256.2	209.0
27.5°	718.9	769.2	802.0	785.1	802.0	769.2	718.9	664.6	589.1	486.4	378.8
25°	1222.2	1319.8	1389.7	1360.5	1389.7	1319.8	1222.2	1081.2	917.8	803.3	650.7
22.5°	2173.1	2333.5	2428.8	2453.7	2428.8	2333.5	2173.1	1873.8	1635.1	1346.3	1120.1
20°	4086.2	4214.1	4239.5	4176.2	4239.5	4214.1	4086.2	3516.4	3063.3	2519.9	2039.0
17.5°	9832.1	10422.6	9989.7	9535.4	9989.7	10422.6	9832.1	7771.4	7061.6	5522.8	4265.5
15°	22491.3	24985.1	26405.7	26695.6	26405.7	24985.1	22491.3	19411.4	15771.6	12406.6	9320.7
12.5°	39630.9	43649.8	45308.3	45153.4	45308.3	43649.8	39630.9	35277.1	28408.0	22458.9	16914.0
10°	59957.5	64254.2	67951.2	67988.6	67951.2	64254.2	59957.5	54341.4	45586.2	35492.6	25618.1
7.5°	80279.6	85234.7	88712.7	89704.9	88712.7	85234.7	80279.6	72887.1	62236.7	49745.8	36850.6
5°	98070.1	104204.9	107657.9	108712.2	107657.9	104204.9	98070.1	89051.4	77379.0	63519.4	47217.7
2.5°	113711.7	121227.0	125014.0	125602.8	125014.0	121227.0	113711.7	103172.3	89825.6	74454.7	54779.3
0°	118015.1	124714.5	129618.9	131364.7	129618.9	124714.5	118015.1	107979.9	94936.5	77854.9	58260.2
-2.5°	113772.5	119633.7	122556.7	123775.9	122556.7	119633.7	113772.5	104305.3	91666.6	76267.6	56764.9
-5°	107066.2	112536.1	116258.8	117120.9	116258.8	112536.1	107066.2	99126.1	86280.7	70878.1	52778.5
-7.5°	90358.2	95742.0	97414.7	99311.0	97414.7	95742.0	90358.2	84008.1	74380.3	60430.4	44394.0
-10°	75496.0	79684.3	80836.2	82179.7	80836.2	79684.3	75496.0	68749.7	59819.1	48195.1	35079.3
-12.5°	62466.5	66615.1	68493.2	70100.7	68493.2	66615.1	62466.5	54957.7	45835.6	36280.5	27825.8
-15°	45765.2	49664.4	51011.3	51880.9	51011.3	49664.4	45765.2	39709.9	32954.0	26691.3	21136.7
-17.5°	33151.5	36121.1	37885.8	38908.9	37885.8	36121.1	33151.5	28490.6	24621.8	20541.3	17014.9
-20°	24780.6	26482.4	27849.5	27999.7	27849.5	26482.4	24780.6	22236.7	19342.6	16554.6	14003.4



REPORT NUMBER: P731320 (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°	18523.1	19536.8	20166.1	20128.1	20166.1	19536.8	18523.1	16975.9	15129.2	13290.5	11403.0
-25°	13825.3	14506.8	14940.3	15018.1	14940.3	14506.8	13825.3	12889.1	11661.5	10482.7	9171.9
-27.5°	10521.0	11000.8	11249.5	11262.7	11249.5	11000.8	10521.0	9902.1	9037.4	8289.2	7340.1
-30°	8151.2	8550.8	8815.9	9018.8	8815.9	8550.8	8151.2	7756.7	7213.1	6563.6	5783.2
-32.5°	6401.6	6742.7	6974.0	7111.7	6974.0	6742.7	6401.6	6038.0	5605.3	5065.0	4410.4
-35°	4799.3	5072.5	5235.9	5195.0	5235.9	5072.5	4799.3	4487.3	4128.9	3683.3	3140.7
-37.5°	3381.9	3613.4	3778.2	3882.5	3778.2	3613.4	3381.9	3101.7	2783.5	2376.0	2009.5
-40°	2130.9	2291.1	2405.0	2477.7	2405.0	2291.1	2130.9	1924.8	1686.6	1398.9	1191.6
-42.5°	1213.6	1273.5	1313.8	1335.3	1313.8	1273.5	1213.6	1133.4	1035.0	914.0	818.7
-45°	839.4	854.3	865.1	871.4	865.1	854.3	839.4	820.9	797.0	768.3	736.5
-47.5°	750.1	762.3	770.2	774.3	770.2	762.3	750.1	733.9	713.3	690.3	666.1
-50°	665.4	680.4	689.5	692.8	689.5	680.4	665.4	647.0	626.5	605.5	582.1
-52.5°	573.4	585.5	593.7	598.1	593.7	585.5	573.4	559.2	544.1	529.7	513.2
-55°	500.3	508.0	512.1	513.0	512.1	508.0	500.3	491.0	480.4	469.1	456.0
-57.5°	442.5	447.5	451.5	454.3	451.5	447.5	442.5	436.4	429.2	421.3	412.9
-60°	395.6	399.9	402.2	402.8	402.2	399.9	395.6	390.0	383.0	375.1	365.6
-62.5°	342.9	348.1	352.1	354.8	352.1	348.1	342.9	335.9	326.9	315.9	302.9
-65°	278.5	286.3	290.4	292.5	290.4	286.3	278.5	269.6	259.8	249.2	237.4
-67.5°	209.9	213.8	214.8	214.6	214.8	213.8	209.9	204.8	198.4	189.8	179.0
-70°	161.2	167.0	169.2	170.2	169.2	167.0	161.2	154.7	147.9	140.2	131.3
-72.5°	116.5	120.7	123.1	124.7	123.1	120.7	116.5	111.9	106.7	100.8	93.8
-75°	69.5	71.2	72.3	73.1	72.3	71.2	69.5	67.5	65.1	62.3	59.0
-77.5°	44.5	46.4	47.2	47.9	47.2	46.4	44.5	42.6	40.6	38.4	35.7
-80°	31.1	32.2	32.4	32.4	32.4	32.2	31.1	29.9	28.7	27.4	25.5
-82.5°	20.9	21.5	21.6	21.6	21.6	21.5	20.9	20.2	19.4	18.7	17.6
-85°	16.1	16.8	16.8	16.8	16.8	16.8	16.1	15.5	14.8	14.1	13.1
-87.5°	11.7	12.0	12.6	13.2	12.6	12.0	11.7	11.4	11.1	10.8	9.9
-90°	1.5	1.2	0.6	0.0	0.6	1.2	1.5	1.8	2.1	2.4	2.7



REPORT NUMBER: P731320 (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°
90°	8.4	7.8	7.2	6.6	6.0	5.4	4.8	4.8	4.8	4.8	4.8
87.5°	3.0	3.3	3.6	3.6	3.6	3.6	3.6	3.9	4.2	4.5	4.8
85°	3.0	3.3	3.6	3.8	4.0	4.2	4.4	4.4	4.5	4.6	4.8
82.5°	3.0	3.3	3.6	3.9	4.2	4.5	4.8	4.8	4.8	4.8	4.8
80°	3.0	3.3	3.6	3.9	4.2	4.5	4.8	4.8	4.8	4.8	4.8
77.5°	3.1	3.4	3.7	4.0	4.3	4.6	4.8	4.8	4.8	4.8	4.8
75°	3.8	4.0	4.2	4.5	4.6	4.7	4.9	5.1	5.2	5.2	5.1
72.5°	5.4	5.6	5.9	6.3	6.4	6.6	6.6	6.5	6.3	6.2	5.9
70°	6.9	7.4	8.2	9.3	9.9	10.2	9.8	9.1	8.4	7.9	7.3
67.5°	7.6	8.2	9.7	11.4	12.7	13.7	13.7	13.0	12.0	11.0	9.4
65°	7.7	8.3	10.5	12.9	14.9	16.5	17.7	17.7	17.0	15.3	12.3
62.5°	7.4	8.3	10.1	12.3	14.9	18.5	22.2	23.5	23.4	20.6	16.6
60°	6.5	7.4	8.8	10.6	12.7	17.7	23.8	28.4	31.1	26.7	20.9
57.5°	5.6	6.3	7.2	8.5	10.3	15.8	23.1	31.3	36.4	30.5	24.9
55°	4.7	5.3	5.9	6.6	7.7	12.9	19.7	27.7	33.6	31.8	25.7
52.5°	4.8	5.1	5.5	5.8	6.9	9.9	14.5	22.0	26.4	26.0	24.1
50°	5.8	5.7	5.7	5.9	6.6	7.6	10.6	15.8	18.2	20.0	19.9
47.5°	7.0	6.8	6.2	6.1	6.7	7.5	8.6	10.0	12.9	13.9	15.2
45°	8.4	8.4	8.1	7.7	7.3	7.7	8.3	9.5	10.2	11.4	11.0
42.5°	11.6	10.9	10.2	10.6	10.0	9.3	9.2	10.3	10.5	10.8	11.6
40°	18.0	16.0	15.3	15.0	14.5	12.6	12.9	12.6	12.5	11.7	13.6
37.5°	31.2	27.2	25.2	22.0	20.8	19.6	18.5	17.5	15.9	16.3	17.3
35°	54.1	48.5	42.3	35.8	29.5	28.7	26.2	23.8	22.6	22.7	22.4
32.5°	86.7	87.3	72.6	60.1	49.6	42.4	37.0	31.7	33.0	31.9	29.3
30°	173.9	161.8	137.9	107.3	90.7	66.8	51.7	48.2	46.0	43.6	37.7
27.5°	336.8	282.2	246.0	216.3	159.2	115.8	84.1	68.9	61.7	56.9	51.9
25°	577.4	477.6	430.2	377.4	293.0	211.2	144.7	102.3	82.9	74.6	85.8
22.5°	918.6	846.6	698.4	585.0	522.3	418.9	276.7	142.4	116.4	124.4	125.8
20°	1661.5	1518.1	1190.9	1061.4	920.6	690.0	466.3	293.4	217.3	188.3	171.7
17.5°	3617.7	2710.8	2387.7	2043.6	1586.2	1116.8	912.5	607.0	348.7	262.5	223.0
15°	6863.7	5440.7	4463.9	3585.9	2756.3	2208.6	1637.4	1003.8	547.1	366.4	296.7
12.5°	12622.9	9378.2	6978.1	5721.2	4676.9	3697.1	2654.5	1634.8	880.5	525.2	407.9
10°	18998.3	14189.1	10623.4	8391.7	6815.0	5383.9	3797.1	2323.5	1257.9	705.0	521.7
7.5°	26514.7	19595.6	14503.0	10965.4	8683.4	6742.1	4820.4	3016.5	1639.3	888.4	636.4
5°	33038.0	24083.3	17437.0	12978.5	10258.5	8045.9	5800.9	3689.8	2009.1	1069.9	749.7
2.5°	37616.6	27445.9	19883.8	14797.2	11598.1	9066.1	6564.9	4185.5	2252.0	1195.6	817.5
0°	39985.3	29554.4	21317.2	15464.1	12149.7	9401.2	7002.6	4481.8	2398.5	1297.0	879.8
-2.5°	39331.9	29049.4	21141.0	15593.1	12240.2	9430.3	6917.0	4525.5	2458.0	1328.1	885.2
-5°	36396.2	26300.2	19094.1	14198.7	11257.1	8779.8	6480.3	4312.8	2406.5	1320.3	885.2
-7.5°	31638.4	22960.2	16689.9	12549.7	9989.4	7832.8	5799.4	3854.1	2193.7	1216.3	838.7
-10°	25864.9	19289.6	14374.0	11108.6	8791.6	6845.4	5056.2	3344.1	1926.8	1096.3	788.0
-12.5°	20946.6	15949.2	12077.4	9605.8	7671.1	5978.1	4351.5	2818.8	1609.2	963.0	733.9
-15°	16508.2	13148.7	10521.8	8372.4	6581.5	5104.1	3675.7	2297.4	1270.2	824.4	677.1
-17.5°	13841.1	11023.5	9016.6	7240.4	5676.6	4286.7	3032.4	1877.9	1054.2	722.1	629.7
-20°	11619.4	9614.5	7784.9	6191.4	4799.2	3537.9	2379.1	1428.0	883.8	668.6	590.4



REPORT NUMBER: P731320 (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°	9838.2	8283.1	6670.4	5174.2	3906.8	2803.3	1815.7	1046.1	695.7	614.2	548.9
-25°	8069.0	6914.8	5566.9	4296.6	3085.0	2054.6	1271.5	844.1	642.0	563.7	505.3
-27.5°	6435.4	5463.7	4539.2	3399.9	2325.3	1473.2	935.1	671.7	598.5	529.2	462.4
-30°	4963.9	4214.0	3408.4	2494.2	1656.0	1022.9	713.1	624.7	560.0	496.0	432.2
-32.5°	3697.3	3048.4	2333.6	1672.8	1088.9	768.4	650.3	580.5	522.4	463.7	412.5
-35°	2556.7	2015.2	1450.8	1063.4	768.7	675.2	611.2	548.6	486.5	433.8	393.8
-37.5°	1586.7	1195.9	957.9	744.5	689.1	634.0	577.8	514.3	453.2	411.5	376.7
-40°	1006.5	800.2	740.7	689.4	643.9	599.3	536.3	474.7	431.0	390.0	359.9
-42.5°	772.4	725.6	683.6	644.1	599.5	544.0	490.7	449.0	409.1	373.6	348.1
-45°	702.8	668.1	633.1	586.9	536.3	496.0	460.9	423.6	388.1	361.1	337.8
-47.5°	635.6	599.1	560.2	526.0	491.2	458.5	428.8	398.0	372.8	348.2	315.3
-50°	558.6	531.3	503.6	476.7	449.7	422.1	400.1	380.9	353.5	321.7	287.1
-52.5°	495.0	474.9	453.6	431.7	413.6	395.5	376.9	351.1	322.6	286.4	248.5
-55°	441.0	427.7	414.4	400.6	384.4	361.2	337.8	310.7	278.2	242.8	209.3
-57.5°	404.3	392.6	375.8	357.9	338.9	313.1	284.8	256.8	231.0	200.7	170.1
-60°	354.5	341.4	321.1	298.8	274.5	249.8	228.6	206.6	184.0	158.8	132.7
-62.5°	287.8	270.4	252.6	234.6	215.0	194.8	176.7	158.3	138.5	117.2	99.4
-65°	224.3	209.9	194.2	178.3	161.8	144.6	128.7	114.1	100.1	85.1	70.4
-67.5°	166.9	153.3	139.6	127.0	115.7	103.3	91.6	79.4	70.7	63.1	55.3
-70°	121.9	112.2	102.3	91.8	82.2	74.0	67.4	61.0	54.3	46.6	38.9
-72.5°	86.9	80.3	73.8	67.3	61.2	54.7	47.9	41.1	34.4	27.7	22.9
-75°	55.1	50.7	45.7	40.5	35.2	29.7	26.3	24.0	21.7	19.4	17.2
-77.5°	33.0	30.2	27.6	25.4	23.2	20.9	18.7	17.0	15.9	14.8	13.8
-80°	23.6	21.7	19.9	18.5	17.0	15.7	14.4	13.6	12.8	12.0	11.3
-82.5°	16.5	15.3	14.2	13.3	12.4	11.5	10.6	10.1	9.6	9.2	8.8
-85°	12.1	11.1	10.1	9.4	8.8	8.1	7.5	7.4	7.3	7.1	7.0
-87.5°	9.0	8.1	7.2	6.9	6.5	6.2	5.8	5.8	5.7	5.7	5.6
-90°	3.0	3.3	3.6	3.6	3.6	3.6	3.6	3.9	4.2	4.5	4.8





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	4.8	4.8	4.8	4.8	5.1	5.4	5.7	6.0	5.7	5.4	5.1
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9	5.0	5.1
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.0	5.2	5.3
82.5°	4.8	4.8	4.8	4.8	5.0	5.1	5.2	5.1	5.2	5.4	5.6
80°	4.8	4.8	4.8	4.8	5.1	5.4	5.6	5.6	5.6	5.6	5.8
77.5°	4.8	4.8	4.8	4.9	5.2	5.5	5.8	6.0	5.9	5.8	5.9
75°	4.8	4.8	4.8	4.9	5.2	5.5	5.8	6.0	6.0	6.0	6.0
72.5°	5.6	5.3	5.1	5.0	5.2	5.5	5.8	6.0	6.0	6.0	6.0
70°	6.6	6.1	5.8	5.5	5.5	5.6	5.9	6.0	6.0	6.0	6.0
67.5°	7.8	7.1	6.5	6.1	5.8	5.8	5.9	6.0	6.0	6.0	6.0
65°	10.4	8.7	7.1	6.5	6.1	6.0	6.0	6.0	6.0	6.0	6.0
62.5°	13.3	10.8	9.0	7.3	6.4	6.1	6.0	6.0	6.0	6.0	6.0
60°	16.3	13.1	10.8	8.8	7.1	6.1	6.0	6.0	6.0	6.0	6.0
57.5°	19.2	14.9	12.3	10.2	8.4	6.7	6.0	6.0	6.0	6.0	6.0
55°	20.9	16.4	13.5	11.2	9.3	7.7	6.3	6.0	6.0	6.0	6.0
52.5°	19.9	17.1	14.5	11.9	9.9	8.5	7.1	6.0	6.0	6.0	6.0
50°	17.4	16.8	15.0	12.4	10.2	8.9	7.8	6.5	6.0	6.0	6.1
47.5°	15.8	16.1	15.0	12.7	10.3	9.2	8.2	7.1	6.0	6.0	6.2
45°	13.9	15.2	14.9	13.0	10.6	9.6	8.6	7.5	6.4	6.1	6.3
42.5°	12.5	14.5	14.6	13.4	11.5	9.9	8.9	7.8	6.7	6.1	6.4
40°	14.2	14.2	14.6	14.3	12.7	10.3	9.2	8.1	7.0	6.3	6.4
37.5°	17.0	15.9	15.1	16.7	14.3	11.4	9.4	8.3	7.4	6.7	6.5
35°	21.5	19.2	18.7	20.1	17.5	12.7	9.7	8.5	7.9	7.0	6.6
32.5°	27.0	25.4	25.0	24.3	21.7	14.0	10.5	9.4	8.6	7.3	6.6
30°	36.0	37.0	32.5	29.4	26.6	18.0	12.1	10.4	9.4	7.6	6.8
27.5°	55.6	52.0	41.8	36.2	31.5	23.1	14.9	11.6	10.2	8.1	7.0
25°	81.6	71.8	56.5	44.0	36.9	36.0	18.0	12.9	11.2	8.7	7.3
22.5°	115.4	96.1	73.5	52.2	56.4	53.0	25.0	15.4	12.2	9.4	7.5
20°	154.1	124.0	97.0	80.8	79.1	70.1	37.4	18.1	13.3	10.2	7.7
17.5°	196.9	171.1	147.1	117.7	103.3	89.0	51.8	20.9	14.5	10.9	7.9
15°	273.3	241.9	201.6	157.9	128.5	109.4	67.9	23.8	15.6	11.7	8.3
12.5°	360.8	316.2	259.1	200.4	154.6	130.9	85.0	26.7	16.8	12.8	8.9
10°	450.7	392.9	318.4	244.4	181.1	153.1	102.6	30.5	19.3	14.2	9.5
7.5°	541.8	470.7	378.5	288.9	208.2	176.7	122.1	36.3	22.0	15.5	10.2
5°	626.9	539.0	429.0	327.2	237.0	201.5	141.1	41.9	24.7	16.8	10.8
2.5°	685.0	590.9	471.5	362.2	265.2	225.5	158.5	47.5	27.4	18.1	11.4
0°	739.6	638.9	510.6	394.4	292.5	248.1	173.8	52.7	30.0	19.2	12.0
-2.5°	749.7	647.1	516.1	402.5	303.7	256.8	179.6	62.2	36.3	22.6	13.7
-5°	755.6	650.2	517.9	407.8	313.5	263.5	183.0	71.1	42.3	25.9	15.3
-7.5°	726.0	629.4	508.2	408.5	321.8	268.1	184.1	79.2	47.8	28.8	16.7
-10°	686.4	592.7	482.8	393.4	319.3	267.4	183.0	86.3	52.6	31.4	18.0
-12.5°	644.9	553.3	456.5	377.5	314.5	262.5	179.6	92.5	56.8	33.6	19.2
-15°	602.0	511.9	430.1	361.3	309.5	256.7	175.1	97.8	60.8	35.6	20.1
-17.5°	560.0	469.0	404.2	345.4	304.6	250.3	169.8	101.6	63.9	37.5	21.1
-20°	519.7	436.5	380.0	330.3	299.9	243.5	163.9	104.1	65.9	38.7	22.0



REPORT NUMBER: P731320 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	479.0	414.1	364.2	321.9	293.0	236.5	157.7	105.0	66.8	39.2	22.6
-25°	439.8	392.4	349.4	316.2	282.9	226.3	154.6	104.3	66.5	38.7	22.9
-27.5°	411.8	372.6	334.9	309.8	270.8	216.7	153.2	103.6	65.3	37.4	22.9
-30°	389.3	356.4	325.8	300.9	258.4	202.5	149.6	101.4	63.7	36.6	22.5
-32.5°	373.1	341.1	317.4	286.6	242.5	187.4	140.8	97.5	60.9	36.0	21.9
-35°	359.9	330.9	307.8	272.3	224.5	174.2	129.5	91.8	56.9	35.0	21.0
-37.5°	345.9	322.7	292.3	255.2	205.7	159.5	118.1	82.7	51.5	33.4	19.8
-40°	336.6	310.9	277.5	234.0	187.6	143.3	105.4	73.6	48.0	31.3	18.1
-42.5°	326.1	293.4	255.2	211.9	168.4	127.9	91.8	63.8	44.1	28.9	16.0
-45°	305.9	271.1	228.9	188.2	148.1	111.1	80.3	54.1	39.5	26.0	14.1
-47.5°	281.5	240.8	201.3	162.9	127.9	94.2	68.1	48.4	34.4	22.6	12.9
-50°	247.0	209.1	172.3	138.5	106.0	80.1	56.7	42.1	29.5	18.2	11.5
-52.5°	211.7	176.2	144.2	113.9	88.2	65.3	49.0	35.5	24.2	15.3	9.9
-55°	175.5	145.0	116.9	92.4	70.7	54.5	40.7	29.1	18.6	13.1	8.3
-57.5°	141.9	115.0	93.0	72.4	57.1	44.5	32.7	22.4	15.3	10.8	8.4
-60°	109.0	89.4	70.2	57.6	46.2	35.0	24.7	16.7	12.8	9.0	8.4
-62.5°	81.7	66.0	56.0	45.8	35.6	25.9	17.4	14.0	10.2	8.8	8.4
-65°	61.6	52.7	43.5	34.2	25.2	18.0	14.5	11.2	9.4	8.7	8.3
-67.5°	47.3	38.8	30.6	22.4	18.0	14.7	11.5	9.8	8.9	8.4	8.0
-70°	31.5	24.3	20.2	17.1	14.1	11.5	10.2	9.1	8.4	8.0	7.6
-72.5°	20.5	17.9	15.3	12.8	11.6	10.4	9.2	8.3	8.0	7.6	7.3
-75°	15.0	13.7	12.6	11.6	10.5	9.3	8.4	7.8	7.5	7.2	6.9
-77.5°	12.8	11.9	11.1	10.1	9.1	8.3	7.7	7.3	7.1	6.8	6.6
-80°	10.5	9.8	9.0	8.2	7.6	7.2	7.0	6.8	6.6	6.4	6.2
-82.5°	8.2	7.6	7.2	6.9	6.7	6.6	6.5	6.3	6.2	6.0	5.9
-85°	6.7	6.5	6.3	6.2	6.1	6.0	6.0	6.0	5.9	5.8	5.6
-87.5°	5.6	5.6	5.5	5.5	5.6	5.7	5.8	6.0	5.8	5.6	5.4
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



REPORT NUMBER: P731320 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.8	5.1	5.4	5.7	6.0	5.4	4.8
87.5°	5.1	5.1	5.0	5.0	4.9	4.9	4.8
85°	5.4	5.3	5.2	5.1	5.0	4.9	4.8
82.5°	5.7	5.6	5.4	5.3	5.1	5.0	4.8
80°	6.0	5.8	5.6	5.4	5.2	5.0	4.8
77.5°	6.0	6.0	5.8	5.6	5.3	5.1	4.8
75°	6.0	6.0	6.0	5.7	5.4	5.1	4.8
72.5°	6.0	6.0	6.0	5.9	5.5	5.2	4.8
70°	6.0	6.0	6.0	6.0	5.6	5.2	4.8
67.5°	6.0	6.0	6.0	6.0	5.7	5.3	4.8
65°	6.0	6.0	6.0	6.0	5.8	5.3	4.8
62.5°	6.0	6.0	6.0	6.0	5.9	5.4	4.8
60°	6.0	6.0	6.0	6.0	6.0	5.4	4.8
57.5°	6.0	6.0	6.0	6.0	6.0	5.4	4.8
55°	6.0	6.0	6.0	6.0	6.0	5.5	4.8
52.5°	6.0	6.0	6.0	6.0	6.0	5.5	4.8
50°	6.0	6.0	6.0	6.0	6.0	5.6	4.8
47.5°	6.0	6.0	6.0	6.0	6.0	5.6	4.8
45°	6.1	6.0	6.0	6.0	6.0	5.6	4.8
42.5°	6.2	6.0	6.0	6.0	6.0	5.7	4.8
40°	6.4	6.0	6.0	6.0	6.0	5.7	4.8
37.5°	6.5	6.0	6.0	6.0	6.0	5.8	4.8
35°	6.7	6.1	6.0	6.0	6.0	5.8	4.8
32.5°	6.8	6.2	6.0	6.0	6.0	5.8	4.8
30°	6.9	6.3	6.0	6.0	6.0	5.8	4.8
27.5°	7.0	6.5	6.0	6.0	6.0	5.9	4.8
25°	7.0	6.6	6.0	6.0	6.0	5.9	4.8
22.5°	7.1	6.7	6.0	6.0	6.0	5.9	4.8
20°	7.2	6.8	6.0	6.0	6.0	5.9	4.8
17.5°	7.3	6.9	6.0	6.0	6.0	5.9	4.8
15°	7.4	7.0	6.0	6.0	6.0	6.0	4.8
12.5°	7.5	7.1	6.0	6.0	6.0	6.0	4.8
10°	7.7	7.1	6.0	6.0	6.0	6.0	4.8
7.5°	7.9	7.1	6.0	6.0	6.0	6.0	4.8
5°	8.1	7.2	6.0	6.0	6.0	6.0	4.8
2.5°	8.2	7.2	6.0	6.0	6.0	6.0	4.8
0°	8.4	7.2	6.0	6.0	6.0	6.0	4.8
-2.5°	9.2	7.3	6.0	6.0	6.0	6.0	4.8
-5°	9.9	7.4	6.0	6.0	6.0	6.0	4.8
-7.5°	10.6	7.5	6.0	6.0	6.0	6.0	4.8
-10°	11.2	7.6	6.0	6.0	6.0	6.0	4.8
-12.5°	11.7	7.6	6.0	6.0	6.0	6.0	4.8
-15°	12.1	7.6	6.0	6.0	6.0	6.0	4.8
-17.5°	12.3	7.6	6.0	6.0	6.0	6.0	4.8
-20°	12.5	7.6	6.0	6.0	6.0	5.9	4.8



REPORT NUMBER: P731320 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	12.8	7.5	6.0	6.0	6.0	5.9	4.8
-25°	12.9	7.5	6.0	6.0	6.0	5.9	4.8
-27.5°	12.7	7.4	6.0	6.0	6.0	5.9	4.8
-30°	12.2	7.3	6.0	6.0	6.0	5.9	4.8
-32.5°	11.5	7.2	6.1	6.0	6.0	5.9	4.8
-35°	11.1	6.9	6.2	6.0	6.0	5.8	4.8
-37.5°	10.7	6.6	6.3	6.0	6.0	5.8	4.8
-40°	10.2	6.7	6.4	6.0	6.0	5.8	4.8
-42.5°	9.5	6.8	6.4	6.0	6.0	5.8	4.8
-45°	8.6	6.9	6.5	6.0	6.0	5.8	4.8
-47.5°	7.7	7.0	6.5	6.1	6.0	5.8	4.8
-50°	7.6	7.1	6.5	6.1	6.0	5.7	4.8
-52.5°	7.7	7.2	6.5	6.1	6.0	5.7	4.8
-55°	7.8	7.2	6.5	6.1	6.0	5.7	4.8
-57.5°	7.9	7.1	6.5	6.1	6.0	5.7	4.8
-60°	7.9	7.0	6.4	6.1	6.0	5.7	4.8
-62.5°	7.8	7.0	6.4	6.1	6.0	5.6	4.8
-65°	7.6	6.8	6.3	6.1	6.0	5.6	4.8
-67.5°	7.4	6.7	6.3	6.0	6.0	5.6	4.8
-70°	7.1	6.6	6.2	6.0	6.0	5.6	4.8
-72.5°	6.9	6.4	6.1	6.0	6.0	5.6	4.8
-75°	6.6	6.2	6.0	5.9	6.0	5.5	4.8
-77.5°	6.3	6.1	5.9	5.9	6.0	5.5	4.8
-80°	6.0	5.9	5.8	5.9	6.0	5.5	4.8
-82.5°	5.7	5.7	5.7	5.8	6.0	5.5	4.8
-85°	5.4	5.5	5.6	5.8	6.0	5.5	4.8
-87.5°	5.1	5.3	5.5	5.7	6.0	5.4	4.8
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8

(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

