

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: P731342 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-4S-CV1**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731342 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-80-4S-CV1  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

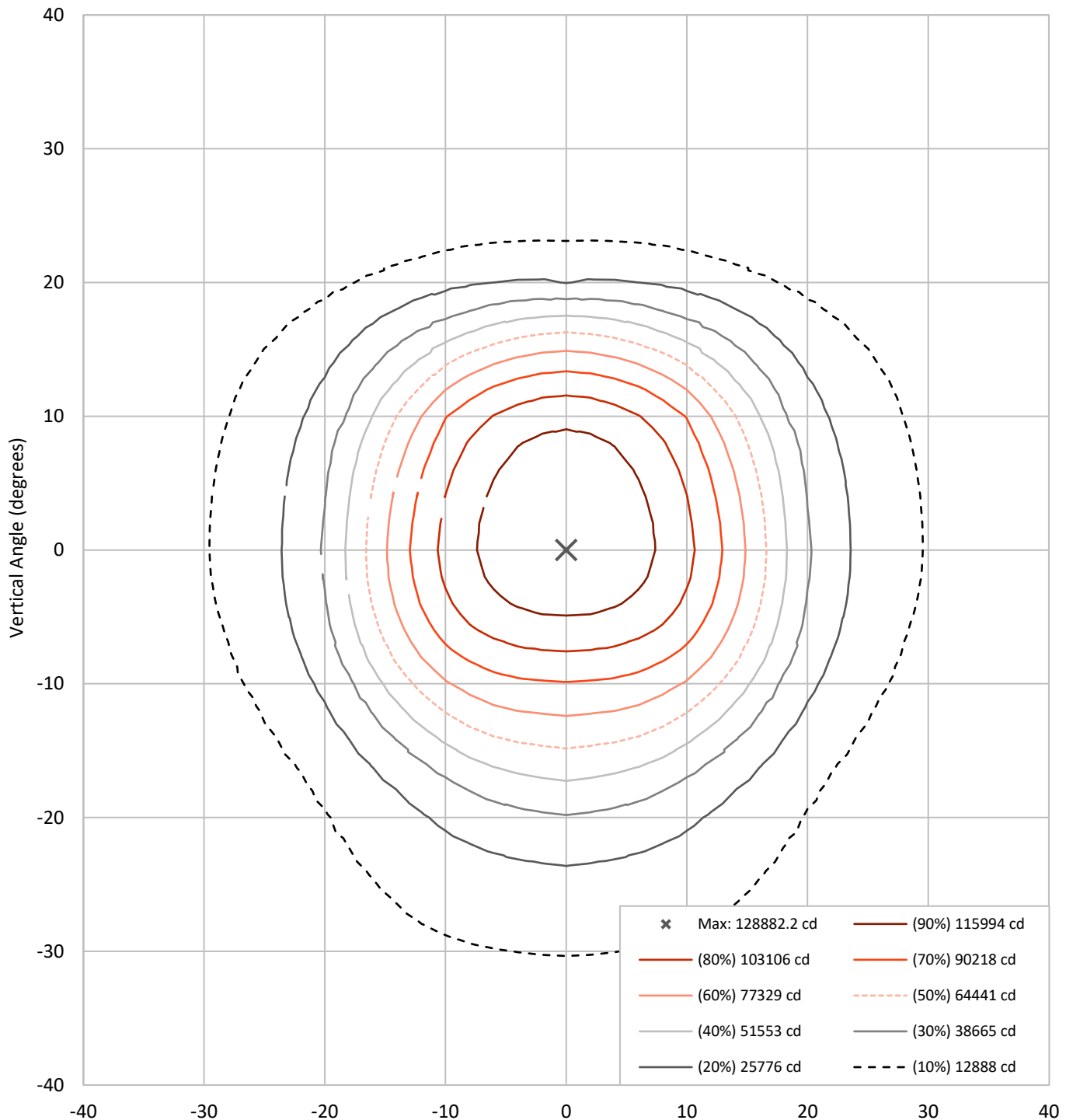
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	43912.8 lumens	Max Intensity:	128882.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	127.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.1°H x 31.1°V	Field Angle (10%):	59.1°H x 53.4°V
Beam Lumens:	24000.1 lumens	Field Lumens:	38671.9 lumens
Beam Efficiency:	54.7%	Field Efficiency:	88.1%

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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### Iso-Candela Plot





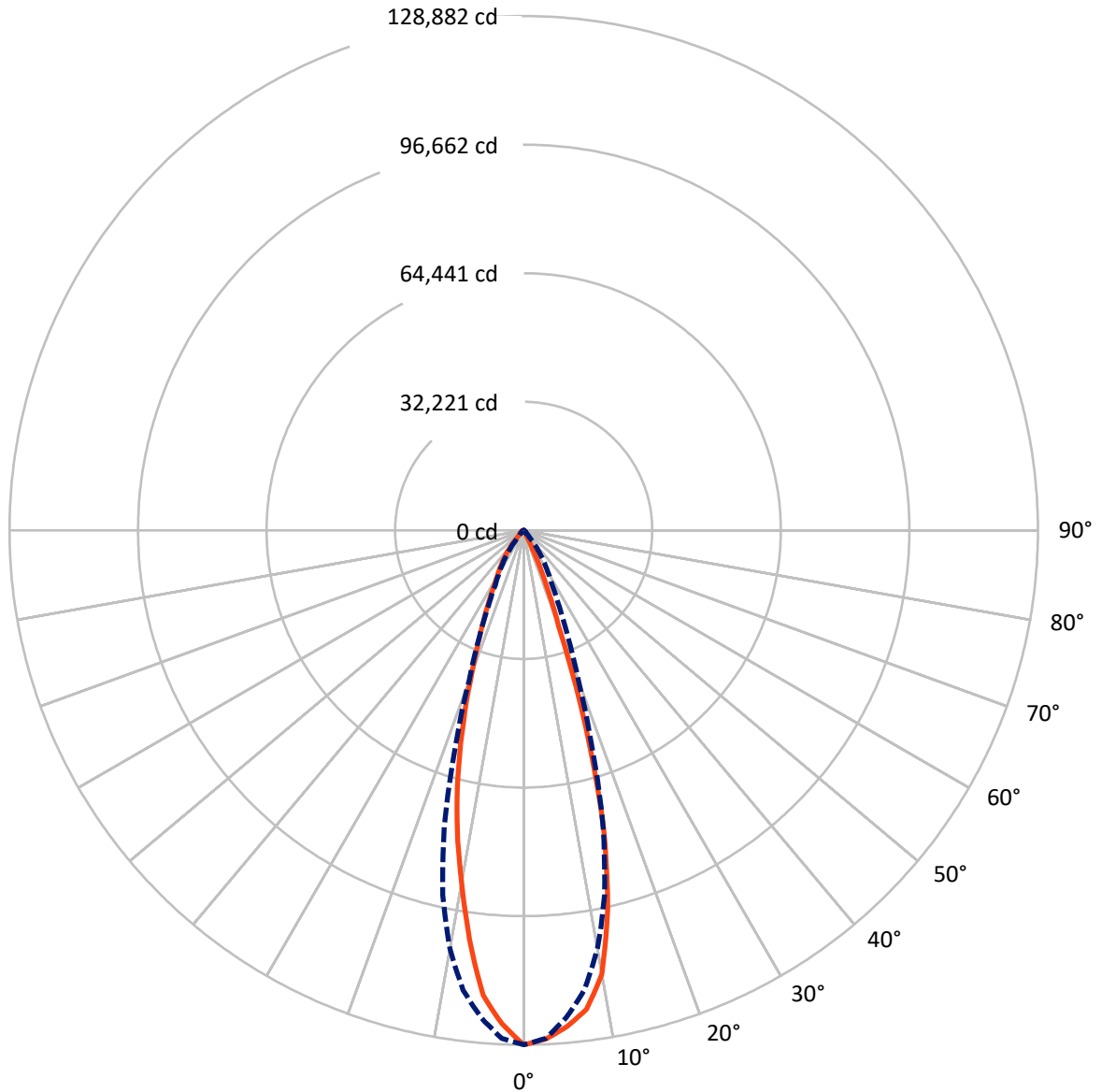
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### Lumen Table

90															
80	0.0	0.1		0.2		0.2		0.2		0.2		0.1		0.0	
70															
60	0.0	0.0	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.0
50		0.0	0.1	0.5	0.4	0.2	0.1	0.2	0.2	0.1	0.2	0.4	0.5	0.1	0.0
40	0.0	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1
30		0.1	0.5	1.3	2.4	4.1	6.3	7.8	7.8	6.3	4.1	2.4	1.3	0.5	0.1
20	0.1	0.2	2.1	6.6	26.1	81.4	163.0	264.6	264.6	163.0	81.4	26.1	6.6	2.1	0.2
10		0.7	4.9	15.9	107.7	367.9	1098.1	2047.3	2047.3	1098.1	367.9	107.7	15.9	4.9	0.7
0	0.1	1.1	6.7	22.7	167.8	597.8	2050.0	3511.3	3511.3	2050.0	597.8	167.8	22.7	6.7	1.1
-10		1.4	7.2	23.4	165.7	576.7	1984.3	3268.4	3268.4	1984.3	576.7	165.7	23.4	7.2	1.4
-20	0.3	1.7	6.9	18.0	98.5	325.8	1001.3	1784.9	1784.9	1001.3	325.8	98.5	18.0	6.9	1.7
-30		1.7	6.6	13.9	46.4	176.6	406.9	649.2	649.2	406.9	176.6	46.4	13.9	6.6	1.7
-40	0.2	1.4	5.9	11.9	22.9	65.6	164.3	249.6	249.6	164.3	65.6	22.9	11.9	5.9	1.4
-50		0.9	4.3	10.2	17.1	26.1	39.7	53.9	53.9	39.7	26.1	17.1	10.2	4.3	0.9
-60	0.1	0.5	2.2	6.6	12.9	18.5	23.8	27.3	27.3	23.8	18.5	12.9	6.6	2.2	0.5
-70		0.2	0.8	2.4	5.2	8.6	12.2	14.1	14.1	12.2	8.6	5.2	2.4	0.8	0.2
-80	0.1	0.4		1.6		4.1		5.5		4.1		1.6		0.4	0.1
-90															

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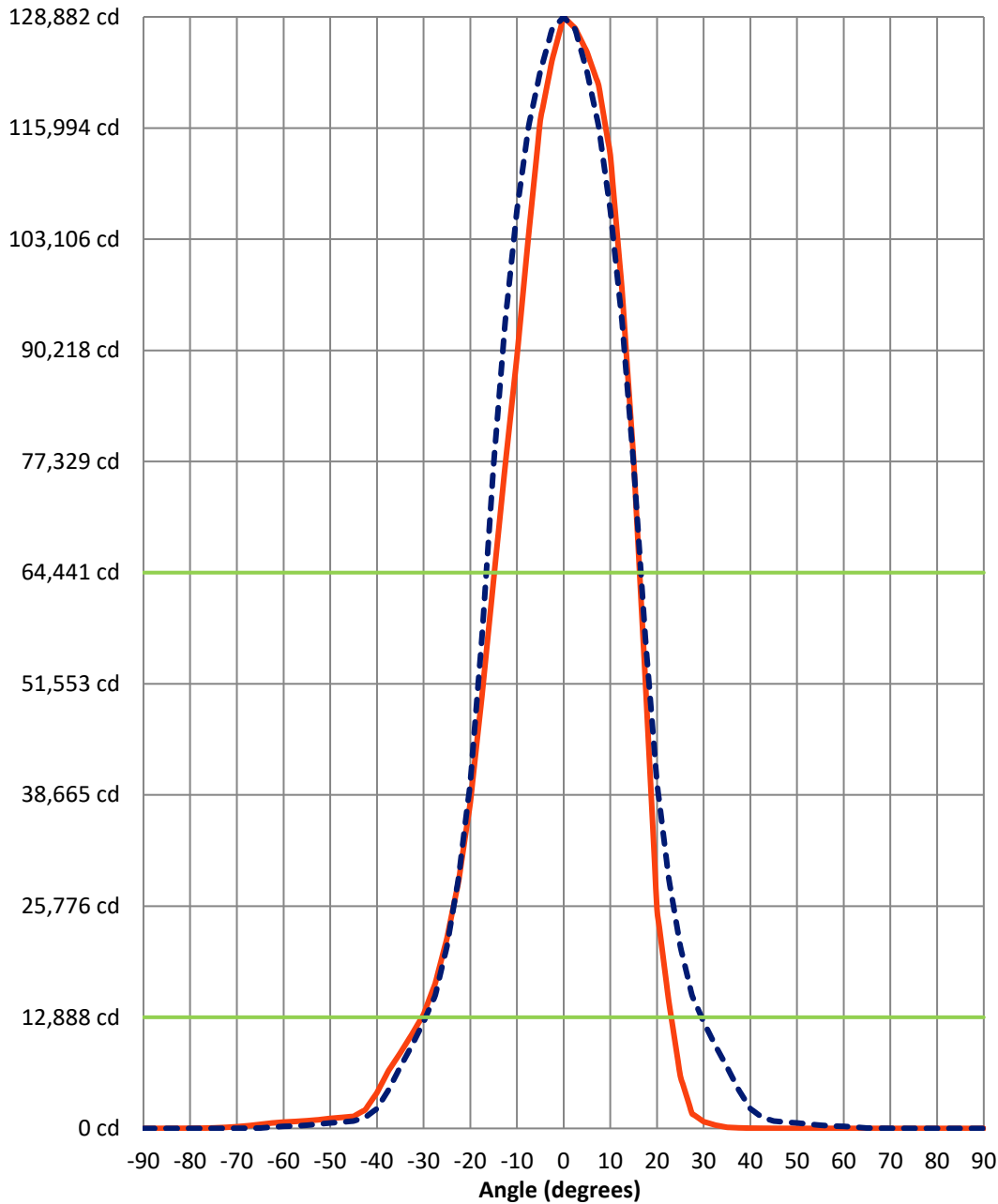
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 33.1°  
 V Angle: 31.1°  
 Lumens: 24000.1  
 Efficiency: 54.7%

**Field:**  
 H Angle: 59.1°  
 V Angle: 53.4°  
 Lumens: 38671.9  
 Efficiency: 88.1%

**Spill:**  
 Lumens: 5240.9  
 Efficiency: 11.9%

- 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°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	2.2	1.7	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1
85°	2.2	1.7	1.3	1.3	1.3	1.2	1.1	1.1	1.1	1.1	1.1
82.5°	2.2	1.7	1.4	1.4	1.4	1.3	1.1	1.1	1.1	1.1	1.1
80°	2.2	1.8	1.5	1.5	1.5	1.4	1.2	1.3	1.3	1.3	1.1
77.5°	2.2	1.8	1.6	1.6	1.6	1.5	1.4	1.5	1.5	1.4	1.3
75°	2.2	1.8	1.7	1.8	1.7	1.6	1.7	1.8	1.7	1.7	1.7
72.5°	2.2	1.8	1.8	1.9	1.8	1.8	2.0	2.0	1.9	1.9	2.1
70°	2.2	1.9	1.9	2.0	1.9	2.0	2.2	2.1	2.1	2.2	2.2
67.5°	2.2	1.9	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.2	2.2
65°	2.2	1.9	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	1.9	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2
60°	2.2	2.0	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
57.5°	2.2	2.0	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
55°	2.2	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
52.5°	2.2	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
50°	2.2	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9
47.5°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.7
45°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.8	4.4
42.5°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	3.5	5.3
40°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.6	4.1	6.2
37.5°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.4	3.2	4.8	7.2
35°	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.6	3.7	5.7	8.0
32.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	4.3	6.5	8.8
30°	2.2	2.2	2.2	2.2	2.2	2.2	2.3	3.0	4.8	7.3	9.8
27.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.5	3.4	5.3	8.1	10.9
25°	2.2	2.2	2.2	2.2	2.2	2.2	2.6	3.8	5.9	8.9	12.2
22.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.7	4.1	6.5	9.8	14.9
20°	2.2	2.2	2.2	2.2	2.2	2.3	2.9	4.5	7.0	10.9	17.7
17.5°	2.2	2.2	2.2	2.2	2.2	2.4	3.1	4.8	7.5	11.9	20.7
15°	2.2	2.2	2.2	2.2	2.2	2.5	3.3	5.2	7.9	13.0	23.9
12.5°	2.2	2.2	2.2	2.2	2.2	2.6	3.5	5.7	8.6	14.0	27.0
10°	2.2	2.2	2.2	2.2	2.2	2.8	3.8	6.1	9.6	15.9	30.3
7.5°	2.2	2.2	2.2	2.2	2.2	2.9	4.0	6.6	10.6	17.9	33.7
5°	2.2	2.2	2.2	2.2	2.2	3.0	4.2	7.0	11.6	19.9	36.9
2.5°	2.2	2.2	2.2	2.2	2.2	3.2	4.3	7.4	12.5	21.7	39.8
0°	2.2	2.2	2.2	2.2	2.2	3.3	4.5	7.8	13.4	23.4	42.3
-2.5°	2.2	2.2	2.2	2.2	2.3	3.7	5.5	9.9	18.0	31.6	54.5
-5°	2.2	2.2	2.2	2.2	2.4	4.0	6.5	11.8	22.4	39.4	66.1
-7.5°	2.2	2.2	2.2	2.2	2.5	4.3	7.4	13.7	26.4	46.6	76.9
-10°	2.2	2.2	2.2	2.2	2.6	4.6	8.3	15.4	30.1	53.2	86.7
-12.5°	2.2	2.2	2.2	2.2	2.6	4.9	9.0	16.9	33.2	58.8	95.3
-15°	2.2	2.2	2.2	2.2	2.7	5.1	9.6	18.1	35.7	63.1	102.4
-17.5°	2.2	2.2	2.2	2.2	2.7	5.2	10.1	19.3	37.6	66.4	107.6
-20°	2.2	2.2	2.2	2.2	2.8	5.3	10.6	20.4	38.8	68.4	110.8



REPORT NUMBER: P731342 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV1

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.2	2.2	2.2	2.2	2.8	5.3	11.0	21.0	39.2	69.2	111.8
-25°	2.2	2.2	2.2	2.2	2.8	5.3	11.1	21.3	38.8	68.5	110.4
-27.5°	2.2	2.2	2.2	2.2	2.8	5.3	11.1	21.2	37.5	67.0	109.4
-30°	2.2	2.2	2.2	2.2	2.7	5.2	10.8	20.7	36.6	65.4	106.6
-32.5°	2.2	2.2	2.2	2.2	2.8	5.0	10.3	20.2	35.9	62.6	101.8
-35°	2.2	2.2	2.2	2.2	2.8	4.7	9.9	19.6	34.6	58.5	95.0
-37.5°	2.2	2.2	2.2	2.2	2.8	4.4	9.5	18.5	32.6	53.1	86.6
-40°	2.2	2.2	2.2	2.2	2.8	4.4	8.9	17.1	30.0	49.3	78.1
-42.5°	2.2	2.2	2.2	2.2	2.8	4.4	8.2	15.3	27.6	45.0	68.3
-45°	2.2	2.2	2.2	2.2	2.8	4.3	7.3	13.6	25.1	40.0	58.2
-47.5°	2.2	2.2	2.2	2.3	2.8	4.2	6.3	12.3	22.1	34.6	52.0
-50°	2.2	2.2	2.2	2.3	2.8	4.1	6.0	10.9	18.2	30.1	45.2
-52.5°	2.2	2.2	2.2	2.3	2.8	3.9	5.8	9.2	15.4	25.1	38.0
-55°	2.2	2.2	2.2	2.3	2.8	3.8	5.5	7.5	13.1	19.7	31.7
-57.5°	2.2	2.2	2.2	2.3	2.7	3.7	5.2	7.1	10.6	16.2	24.7
-60°	2.2	2.2	2.2	2.3	2.6	3.5	4.9	6.7	8.5	13.2	18.6
-62.5°	2.2	2.2	2.2	2.3	2.6	3.3	4.6	6.2	7.8	10.2	15.1
-65°	2.2	2.2	2.2	2.3	2.5	3.0	4.2	5.6	7.1	8.9	11.5
-67.5°	2.2	2.2	2.2	2.2	2.4	2.9	3.7	5.1	6.4	8.0	9.7
-70°	2.2	2.2	2.2	2.2	2.4	2.7	3.3	4.5	5.7	7.0	8.5
-72.5°	2.2	2.2	2.2	2.2	2.3	2.6	3.0	3.9	5.1	6.2	7.4
-75°	2.2	2.2	2.2	2.2	2.2	2.4	2.8	3.5	4.4	5.5	6.6
-77.5°	2.2	2.2	2.2	2.2	2.2	2.3	2.5	3.1	3.9	4.7	5.7
-80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	3.3	4.0	4.8
-82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.8	3.3	3.9
-85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.6	2.8	3.1
-87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.5	2.7
-90°	2.2	1.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1





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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV1

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.4	1.5
80°	1.1	1.1	1.1	1.1	1.2	1.4	1.6	2.0	2.1	2.2	2.2
77.5°	1.4	1.4	1.3	1.2	1.3	1.6	1.8	2.1	2.2	2.2	2.2
75°	1.8	1.7	1.5	1.2	1.3	1.5	1.8	2.1	2.2	2.2	2.2
72.5°	2.0	1.8	1.5	1.2	1.4	1.8	2.1	2.2	2.7	3.4	3.8
70°	2.1	1.8	1.7	1.8	2.0	2.4	3.4	4.7	5.9	6.3	6.7
67.5°	2.1	2.0	2.0	2.3	3.1	4.2	5.6	7.4	9.1	9.7	10.4
65°	2.2	2.2	2.5	3.2	4.4	6.1	8.0	10.0	13.0	14.5	15.3
62.5°	2.2	2.4	3.0	4.2	6.0	8.0	10.5	13.9	17.9	20.5	20.4
60°	2.2	2.5	3.7	5.6	7.6	10.0	13.3	17.9	23.6	27.6	24.9
57.5°	2.2	3.0	4.8	6.8	9.1	11.7	16.3	21.9	27.2	32.6	28.0
55°	2.5	3.8	5.8	8.0	10.6	13.8	18.2	22.7	28.4	30.5	25.5
52.5°	3.4	4.7	6.6	9.1	12.3	14.9	17.4	21.3	23.5	24.4	21.0
50°	4.3	5.7	7.4	10.5	13.3	14.7	15.1	17.5	18.5	17.7	16.0
47.5°	5.2	6.7	8.5	11.5	13.4	14.1	13.6	14.0	13.9	13.7	11.6
45°	6.2	7.9	9.8	11.8	13.2	13.1	12.9	11.3	12.8	12.4	11.4
42.5°	7.2	9.0	10.9	12.3	12.7	13.4	13.3	13.8	13.8	14.4	15.6
40°	8.2	10.0	12.3	13.2	12.9	15.0	18.0	19.5	17.5	21.1	24.3
37.5°	9.0	11.4	14.3	16.6	15.3	19.8	24.7	32.6	33.7	31.3	39.9
35°	9.7	13.0	19.0	24.3	25.6	27.7	41.5	53.9	61.7	57.1	63.7
32.5°	10.9	14.7	25.4	36.9	46.1	48.6	63.1	89.3	104.5	107.1	102.8
30°	12.8	20.7	35.0	52.9	73.3	91.7	104.3	134.2	159.2	186.4	202.6
27.5°	15.7	28.5	50.3	78.1	108.9	143.1	171.6	194.7	240.4	286.7	326.6
25°	19.0	44.2	67.8	109.5	158.5	205.8	245.4	280.8	341.0	413.3	534.4
22.5°	27.3	64.4	97.1	144.9	213.7	273.5	327.0	382.0	455.5	553.0	806.1
20°	42.0	89.6	130.4	181.4	270.6	344.2	412.0	481.2	573.3	777.4	1332.9
17.5°	59.0	116.0	162.5	221.6	313.1	406.6	499.6	575.9	687.4	988.7	1912.9
15°	77.7	143.1	191.5	258.3	353.3	455.1	559.0	668.2	838.2	1270.3	2463.4
12.5°	97.4	170.5	217.7	291.7	391.0	501.1	606.7	724.8	974.3	1697.5	3163.8
10°	117.5	197.8	241.2	321.7	426.1	544.4	649.2	772.6	1081.0	1970.9	3652.9
7.5°	130.3	217.1	260.5	348.4	458.1	584.3	686.8	811.9	1171.4	2144.4	3994.8
5°	140.1	227.0	266.8	360.4	479.2	613.4	715.9	843.5	1244.2	2229.3	4231.1
2.5°	147.5	234.8	272.0	367.6	492.0	627.0	724.6	855.3	1274.3	2280.5	4394.8
0°	152.5	240.4	276.0	371.8	500.9	635.6	729.1	861.5	1278.9	2295.2	4474.7
-2.5°	160.8	244.8	284.3	379.3	505.6	638.3	732.8	866.4	1297.6	2363.8	4596.6
-5°	167.0	247.4	291.4	383.9	506.3	636.3	732.8	865.2	1286.8	2340.0	4442.7
-7.5°	171.1	248.6	297.0	385.5	499.6	622.4	717.9	840.5	1219.3	2189.5	4024.9
-10°	174.1	252.2	304.1	383.1	484.8	599.7	696.8	810.6	1132.3	1978.0	3540.7
-12.5°	178.8	258.1	310.9	379.7	469.3	573.7	672.4	775.8	1026.8	1705.7	2993.4
-15°	181.2	262.9	317.3	375.7	454.1	544.9	644.7	736.6	908.7	1377.2	2385.9
-17.5°	181.2	267.0	323.3	371.6	440.1	513.6	617.0	708.2	825.4	1175.1	1962.4
-20°	178.9	270.4	329.2	367.9	428.5	494.1	594.4	688.2	791.4	1023.8	1542.2



REPORT NUMBER: P731342 (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°	174.3	273.3	333.0	370.9	424.2	486.0	568.5	664.2	756.0	862.3	1221.5
-25°	171.3	266.0	333.4	373.8	419.7	477.4	540.6	635.9	722.9	825.3	1052.5
-27.5°	169.3	255.9	327.3	374.6	414.1	469.0	524.5	602.8	697.6	792.7	896.6
-30°	164.0	237.6	318.9	371.1	411.9	461.3	513.6	572.6	668.5	760.7	856.4
-32.5°	153.6	218.5	300.1	359.9	408.2	452.7	502.5	555.6	631.5	726.6	814.5
-35°	141.5	203.6	276.9	345.9	401.0	444.3	489.7	539.9	595.8	682.2	779.9
-37.5°	130.3	186.3	253.1	325.2	383.0	435.4	475.1	522.6	574.6	634.2	731.8
-40°	117.0	166.6	230.8	298.7	363.5	421.0	465.7	503.7	551.7	612.4	672.9
-42.5°	102.2	149.6	206.7	271.4	335.6	396.8	454.7	491.8	534.3	590.8	648.7
-45°	89.9	130.3	180.9	240.8	302.6	366.5	425.3	483.4	524.0	569.3	624.3
-47.5°	76.2	110.4	156.7	207.8	266.7	327.4	390.4	450.7	512.8	556.1	599.3
-50°	63.1	93.4	129.9	176.9	228.2	285.4	344.6	410.9	473.4	533.9	583.9
-52.5°	54.8	74.9	107.6	145.5	191.2	241.0	297.5	358.7	423.1	487.4	542.4
-55°	45.8	62.8	85.3	117.7	155.0	198.8	247.3	303.4	361.8	423.3	481.5
-57.5°	37.2	51.9	68.6	91.2	122.8	157.3	199.4	245.6	298.0	352.5	401.2
-60°	28.5	41.0	55.3	71.8	91.8	121.4	151.6	189.8	233.4	277.3	319.8
-62.5°	20.2	30.4	42.4	55.9	71.7	87.7	111.9	139.8	168.7	204.3	239.6
-65°	16.2	21.0	29.9	41.2	53.3	67.1	81.5	96.1	119.8	143.3	165.9
-67.5°	12.0	16.2	20.7	26.6	36.9	47.2	58.4	71.2	84.1	96.1	110.5
-70°	10.1	11.7	15.1	19.2	23.3	28.1	37.1	46.7	56.7	66.1	76.2
-72.5°	8.7	10.2	11.6	13.0	16.2	19.2	22.0	24.6	30.3	38.2	45.8
-75°	7.5	8.6	9.9	11.2	12.2	13.2	14.4	16.8	19.2	21.5	23.6
-77.5°	6.4	7.1	8.1	9.2	10.1	10.8	11.5	12.3	13.4	14.5	15.8
-80°	5.2	5.6	6.1	6.8	7.6	8.3	8.9	9.4	10.0	10.8	11.7
-82.5°	4.2	4.4	4.7	5.0	5.4	5.9	6.5	7.1	7.4	7.8	8.2
-85°	3.2	3.3	3.5	3.6	3.9	4.1	4.4	4.7	5.1	5.4	5.7
-87.5°	2.7	2.7	2.8	2.8	2.9	2.9	2.9	3.0	3.2	3.5	3.8
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



REPORT NUMBER: P731342 (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°
90°	2.2	2.5	2.8	3.0	3.3	3.6	3.9	4.2	4.5	4.5	4.5
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.6	1.5	1.4	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	2.2	2.1	1.9	1.8	1.8	1.7	1.5	1.3	1.1	1.1	1.1
77.5°	2.2	2.2	2.2	2.2	2.2	2.0	1.7	1.4	1.1	1.1	1.1
75°	2.2	2.3	2.4	2.4	2.3	2.1	2.0	2.0	2.0	1.8	1.6
72.5°	4.0	4.0	3.8	3.7	3.6	3.6	3.6	3.4	3.1	3.1	3.1
70°	7.1	7.3	7.3	7.1	6.4	5.7	5.3	4.8	4.4	4.1	3.9
67.5°	11.0	11.1	10.5	9.5	7.9	6.5	5.9	5.3	4.8	4.6	4.8
65°	15.2	13.9	12.2	10.4	8.4	6.6	6.1	5.7	5.4	5.5	5.9
62.5°	18.8	15.2	12.2	10.1	8.3	6.6	6.1	5.6	5.1	4.8	4.8
60°	20.8	15.2	10.9	9.1	7.4	5.8	5.2	4.8	4.6	4.5	4.5
57.5°	20.8	14.4	9.5	7.8	6.3	5.0	4.5	4.5	4.5	4.5	4.5
55°	18.5	12.6	8.2	6.8	5.8	4.9	4.5	4.7	4.7	4.5	4.7
52.5°	14.5	10.4	7.6	6.3	5.9	5.6	5.5	5.5	5.4	5.2	5.4
50°	11.5	8.7	7.3	6.6	6.6	6.6	6.6	6.7	6.8	6.9	7.0
47.5°	9.6	8.1	8.3	7.6	7.9	8.6	8.7	8.8	9.2	9.2	9.0
45°	9.9	11.5	11.8	11.6	11.4	13.0	13.0	11.9	13.3	13.7	13.4
42.5°	16.4	17.7	18.6	19.5	20.5	21.7	22.4	22.0	23.3	23.2	21.8
40°	27.7	26.4	28.4	31.0	33.2	34.1	36.2	38.4	39.2	38.7	37.3
37.5°	45.4	43.4	43.5	49.2	54.4	48.3	57.4	61.0	58.7	66.8	68.4
35°	75.3	83.3	71.8	92.1	102.2	97.3	108.1	129.5	113.0	143.3	150.7
32.5°	133.9	153.1	165.1	182.2	207.5	240.6	248.9	301.8	318.7	343.2	369.6
30°	218.9	273.0	372.6	391.1	415.1	529.4	560.8	589.6	649.7	696.1	774.9
27.5°	397.8	543.6	751.8	935.1	921.7	1115.0	1330.1	1089.2	1446.6	1303.2	1646.1
25°	744.9	1066.3	1568.4	2054.1	2286.0	2679.9	3172.5	3079.2	3729.2	3774.3	4733.0
22.5°	1416.7	2115.1	2882.7	3708.5	4509.6	5396.2	6248.1	7141.2	8483.9	10339.1	12142.1
20°	2318.0	3344.7	4584.6	5863.2	7219.1	8597.9	10199.8	12912.5	15693.8	19554.6	22282.1
17.5°	3294.6	4928.7	6450.7	8034.9	9930.5	12222.3	15535.8	20171.0	25793.2	31564.4	36029.1
15°	4147.6	5996.2	8190.1	10302.2	12659.3	16099.4	21303.6	28169.2	36530.1	45303.6	55913.0
12.5°	4973.0	6903.9	9288.1	11959.5	15162.6	20086.4	26832.4	36110.5	47186.6	60370.7	73997.1
10°	5613.5	7732.3	10385.8	13394.3	17303.8	23351.2	31190.4	42144.6	58557.7	74121.3	89681.7
7.5°	6114.1	8497.6	11308.4	14465.7	19017.9	25827.4	35206.4	48995.6	66337.4	83176.7	97509.0
5°	6559.0	9126.9	11933.4	15069.7	20251.8	27629.0	37728.8	53476.7	71982.7	88532.5	102170.9
2.5°	6909.4	9538.3	12276.7	15372.2	21046.2	28623.4	39059.0	55881.5	75621.6	91960.6	104983.4
0°	7121.6	9611.6	12334.2	15436.4	21106.6	29074.1	40097.1	56933.8	76919.5	93638.2	106446.6
-2.5°	7045.6	9447.3	12147.6	15247.6	20907.5	28651.8	39262.2	56400.6	75819.7	91461.6	104343.5
-5°	6666.8	8909.6	11417.1	14333.8	19586.9	27047.5	36895.3	52523.6	70776.7	86392.1	98514.0
-7.5°	6069.7	8158.2	10460.2	13160.5	17703.1	24444.8	33418.7	46718.3	63288.6	77696.8	88636.2
-10°	5401.7	7287.0	9281.6	11673.3	15224.1	20946.6	28440.5	38595.7	52807.0	65761.7	76105.1
-12.5°	4598.7	6167.3	7844.0	9906.5	12597.7	17263.0	23563.5	31801.5	41682.6	53210.6	62627.0
-15°	3764.2	5082.9	6470.7	8405.4	10700.7	13672.4	18201.3	24750.4	32085.0	39958.8	48502.5
-17.5°	3022.8	4139.2	5610.7	7240.2	8989.6	11057.6	14802.2	19265.4	24573.5	30189.6	35346.0
-20°	2428.2	3612.3	4934.2	6351.3	7958.8	9947.3	12247.6	15638.5	19574.9	23886.1	28016.7



REPORT NUMBER: P731342 (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°	1997.5	3059.4	4287.0	5616.2	7242.4	9032.5	10895.5	13023.6	15848.4	19163.0	22336.2
-25°	1521.4	2408.8	3599.6	4940.1	6438.2	8016.9	9529.1	11263.8	13329.0	15485.6	17707.6
-27.5°	1205.9	1832.3	2810.0	4069.0	5455.1	6691.1	7986.8	9431.3	11237.2	13113.5	14349.8
-30°	984.2	1351.0	2084.9	3068.5	4227.0	5317.8	6381.6	7679.8	9097.5	10444.1	11537.1
-32.5°	919.4	1083.5	1463.3	2164.3	3034.4	4008.0	4963.0	6121.8	7222.1	8287.8	9227.5
-35°	873.7	978.6	1121.9	1487.6	2011.7	2802.9	3675.4	4656.1	5649.1	6510.0	7307.0
-37.5°	831.1	922.2	1017.0	1111.3	1406.4	1768.5	2383.0	3158.6	3912.0	4608.6	5294.7
-40°	770.3	870.1	946.7	1027.3	1115.1	1214.8	1536.4	1853.3	2222.1	2756.3	3224.4
-42.5°	705.8	788.9	876.2	951.7	1025.1	1101.7	1182.8	1263.3	1431.9	1641.5	1813.2
-45°	678.8	728.8	788.8	867.7	941.4	1010.2	1076.2	1140.0	1207.3	1268.8	1319.0
-47.5°	646.6	692.1	740.6	792.0	846.1	912.6	977.8	1042.7	1101.7	1156.4	1200.1
-50°	616.8	652.5	695.8	739.6	782.9	827.4	872.4	922.6	978.9	1034.4	1080.0
-52.5°	592.5	625.2	656.1	687.1	724.8	762.6	800.4	840.3	878.8	915.2	943.5
-55°	533.2	579.4	624.8	654.0	679.4	705.1	733.7	769.5	803.6	835.9	854.9
-57.5°	452.7	506.1	555.1	589.7	625.1	660.9	690.5	716.0	741.8	766.4	779.9
-60°	363.1	407.0	451.4	492.6	531.9	569.0	603.5	637.1	668.1	694.2	710.1
-62.5°	274.4	310.8	346.9	381.3	414.5	446.7	483.5	518.9	552.5	580.0	597.0
-65°	191.0	220.8	248.8	275.7	301.4	328.9	357.4	385.2	411.8	433.0	446.9
-67.5°	129.9	148.3	165.0	180.9	200.5	221.6	242.6	262.1	280.0	293.7	303.4
-70°	86.3	96.2	105.0	115.3	128.0	140.9	153.9	165.9	176.9	185.1	191.3
-72.5°	53.1	60.0	66.3	73.2	79.7	86.5	93.5	100.4	107.1	111.9	115.5
-75°	25.5	28.7	34.3	39.4	44.0	48.3	52.3	55.7	58.6	60.5	61.7
-77.5°	17.4	18.9	20.2	21.6	23.0	24.8	26.5	28.2	29.9	31.1	32.2
-80°	12.6	13.3	13.9	14.5	15.0	15.7	16.5	17.3	18.1	18.4	18.6
-82.5°	8.7	9.3	9.8	10.4	10.9	11.5	12.0	12.5	12.9	13.3	13.7
-85°	5.9	6.2	6.5	6.8	7.2	7.6	7.9	8.3	8.7	8.7	8.8
-87.5°	4.1	4.2	4.3	4.3	4.4	4.7	5.0	5.3	5.6	5.6	5.6
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.6



REPORT NUMBER: P731342 (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°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.2
87.5°	1.1	1.1	0.5	0.0	0.5	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
75°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.6	1.8	2.0	2.0
72.5°	3.2	3.2	2.8	2.2	2.8	3.2	3.2	3.1	3.1	3.1	3.4
70°	3.6	3.3	3.3	3.3	3.3	3.3	3.6	3.9	4.1	4.4	4.8
67.5°	5.1	5.5	5.6	5.6	5.6	5.5	5.1	4.8	4.6	4.8	5.3
65°	6.2	6.6	6.2	5.6	6.2	6.6	6.2	5.9	5.5	5.4	5.7
62.5°	4.7	4.6	4.5	4.5	4.5	4.6	4.7	4.8	4.8	5.1	5.6
60°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.8
57.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
55°	5.1	5.4	5.6	5.6	5.6	5.4	5.1	4.7	4.5	4.7	4.7
52.5°	5.5	5.6	5.6	5.6	5.6	5.6	5.5	5.4	5.2	5.4	5.5
50°	7.0	6.8	6.7	6.7	6.7	6.8	7.0	7.0	6.9	6.8	6.7
47.5°	8.6	8.1	7.8	7.8	7.8	8.1	8.6	9.0	9.2	9.2	8.8
45°	13.5	13.4	13.3	13.4	13.3	13.4	13.5	13.4	13.7	13.3	11.9
42.5°	22.6	23.0	22.6	21.1	22.6	23.0	22.6	21.8	23.2	23.3	22.0
40°	37.3	35.9	34.0	33.4	34.0	35.9	37.3	37.3	38.7	39.2	38.4
37.5°	69.3	69.2	67.6	66.8	67.6	69.2	69.3	68.4	66.8	58.7	61.0
35°	145.7	144.6	136.7	129.1	136.7	144.6	145.7	150.7	143.3	113.0	129.5
32.5°	378.5	398.6	396.7	385.1	396.7	398.6	378.5	369.6	343.2	318.7	301.8
30°	805.2	841.2	833.6	785.8	833.6	841.2	805.2	774.9	696.1	649.7	589.6
27.5°	1664.3	1748.4	1822.5	1725.3	1822.5	1748.4	1664.3	1646.1	1303.2	1446.6	1089.2
25°	5692.9	6240.3	6564.2	6060.8	6564.2	6240.3	5692.9	4733.0	3774.3	3729.2	3079.2
22.5°	13586.5	14268.8	14632.9	14840.9	14632.9	14268.8	13586.5	12142.1	10339.1	8483.9	7141.2
20°	24922.3	26381.2	27315.7	25433.2	27315.7	26381.2	24922.3	22282.1	19554.6	15693.8	12912.5
17.5°	42222.7	47603.1	50435.9	51975.0	50435.9	47603.1	42222.7	36029.1	31564.4	25793.2	20171.0
15°	64100.7	70984.9	75633.7	77453.8	75633.7	70984.9	64100.7	55913.0	45303.6	36530.1	28169.2
12.5°	84786.6	91890.1	96179.3	97257.5	96179.3	91890.1	84786.6	73997.1	60370.7	47186.6	36110.5
10°	99499.9	106193.0	111127.1	112859.2	111127.1	106193.0	99499.9	89681.7	74121.3	58557.7	42144.6
7.5°	107690.8	115514.5	119863.3	120945.9	119863.3	115514.5	107690.8	97509.0	83176.7	66337.4	48995.6
5°	112404.8	119473.7	124227.5	124803.9	124227.5	119473.7	112404.8	102170.9	88532.5	71982.7	53476.7
2.5°	115444.3	122357.6	126357.1	127532.6	126357.1	122357.6	115444.3	104983.4	91960.6	75621.6	55881.5
0°	116190.2	122546.5	127378.4	128882.2	127378.4	122546.5	116190.2	106446.6	93638.2	76919.5	56933.8
-2.5°	113931.9	120063.7	123282.4	123804.3	123282.4	120063.7	113931.9	104343.5	91461.6	75819.7	56400.6
-5°	108164.8	112699.8	116415.6	116890.8	116415.6	112699.8	108164.8	98514.0	86392.1	70776.7	52523.6
-7.5°	95914.7	101002.0	103057.1	103613.3	103057.1	101002.0	95914.7	88636.2	77696.8	63288.6	46718.3
-10°	82880.8	87239.0	88694.9	89480.8	88694.9	87239.0	82880.8	76105.1	65761.7	52807.0	38595.7
-12.5°	70120.5	74382.2	75814.2	76951.8	75814.2	74382.2	70120.5	62627.0	53210.6	41682.6	31801.5
-15°	55823.7	60020.3	62333.9	63614.6	62333.9	60020.3	55823.7	48502.5	39958.8	32085.0	24750.4
-17.5°	41890.0	45875.4	48568.2	50135.0	48568.2	45875.4	41890.0	35346.0	30189.6	24573.5	19265.4
-20°	31762.5	34459.9	36532.2	37761.8	36532.2	34459.9	31762.5	28016.7	23886.1	19574.9	15638.5



REPORT NUMBER: P731342 (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°	24811.3	26679.5	27880.0	28665.6	27880.0	26679.5	24811.3	22336.2	19163.0	15848.4	13023.6
-25°	19391.5	20617.6	21393.9	22029.3	21393.9	20617.6	19391.5	17707.6	15485.6	13329.0	11263.8
-27.5°	15354.0	16011.3	16354.5	16821.1	16354.5	16011.3	15354.0	14349.8	13113.5	11237.2	9431.3
-30°	12343.0	12847.4	13120.1	13221.4	13120.1	12847.4	12343.0	11537.1	10444.1	9097.5	7679.8
-32.5°	9934.1	10410.6	10754.7	10916.1	10754.7	10410.6	9934.1	9227.5	8287.8	7222.1	6121.8
-35°	7925.5	8323.0	8594.3	8743.4	8594.3	8323.0	7925.5	7307.0	6510.0	5649.1	4656.1
-37.5°	5862.7	6298.9	6597.6	6699.7	6597.6	6298.9	5862.7	5294.7	4608.6	3912.0	3158.6
-40°	3597.0	3874.9	4054.2	4129.6	4054.2	3874.9	3597.0	3224.4	2756.3	2222.1	1853.3
-42.5°	1947.0	2049.0	2119.9	2160.5	2119.9	2049.0	1947.0	1813.2	1641.5	1431.9	1263.3
-45°	1351.5	1377.4	1393.7	1400.3	1393.7	1377.4	1351.5	1319.0	1268.8	1207.3	1140.0
-47.5°	1232.1	1260.0	1274.8	1275.6	1274.8	1260.0	1232.1	1200.1	1156.4	1101.7	1042.7
-50°	1116.0	1146.4	1161.7	1163.2	1161.7	1146.4	1116.0	1080.0	1034.4	978.9	922.6
-52.5°	969.3	993.4	1003.9	1002.9	1003.9	993.4	969.3	943.5	915.2	878.8	840.3
-55°	871.3	885.7	892.1	892.7	892.1	885.7	871.3	854.9	835.9	803.6	769.5
-57.5°	791.9	802.5	806.3	805.9	806.3	802.5	791.9	779.9	766.4	741.8	716.0
-60°	723.9	735.4	738.7	736.9	738.7	735.4	723.9	710.1	694.2	668.1	637.1
-62.5°	610.8	621.4	626.6	627.8	626.6	621.4	610.8	597.0	580.0	552.5	518.9
-65°	457.8	465.8	469.9	470.8	469.9	465.8	457.8	446.9	433.0	411.8	385.2
-67.5°	311.0	316.3	318.0	317.2	318.0	316.3	311.0	303.4	293.7	280.0	262.1
-70°	196.2	200.0	200.9	200.4	200.9	200.0	196.2	191.3	185.1	176.9	165.9
-72.5°	118.5	120.8	121.0	120.2	121.0	120.8	118.5	115.5	111.9	107.1	100.4
-75°	62.5	62.8	62.7	62.3	62.7	62.8	62.5	61.7	60.5	58.6	55.7
-77.5°	33.3	34.2	33.9	33.4	33.9	34.2	33.3	32.2	31.1	29.9	28.2
-80°	18.7	18.8	18.9	18.9	18.9	18.8	18.7	18.6	18.4	18.1	17.3
-82.5°	14.1	14.4	13.9	13.4	13.9	14.4	14.1	13.7	13.3	12.9	12.5
-85°	8.8	8.9	8.9	8.9	8.9	8.9	8.8	8.8	8.7	8.7	8.3
-87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.3
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.1



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	3.9	3.6	3.3	3.0	2.8	2.5	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.3	1.4	1.5	1.6	1.5	1.4	1.3	1.2
80°	1.5	1.7	1.8	1.8	1.9	2.1	2.2	2.2	2.2	2.1	2.0
77.5°	1.7	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1
75°	2.0	2.1	2.3	2.4	2.4	2.3	2.2	2.2	2.2	2.2	2.1
72.5°	3.6	3.6	3.6	3.7	3.8	4.0	4.0	3.8	3.4	2.7	2.2
70°	5.3	5.7	6.4	7.1	7.3	7.3	7.1	6.7	6.3	5.9	4.7
67.5°	5.9	6.5	7.9	9.5	10.5	11.1	11.0	10.4	9.7	9.1	7.4
65°	6.1	6.6	8.4	10.4	12.2	13.9	15.2	15.3	14.5	13.0	10.0
62.5°	6.1	6.6	8.3	10.1	12.2	15.2	18.8	20.4	20.5	17.9	13.9
60°	5.2	5.8	7.4	9.1	10.9	15.2	20.8	24.9	27.6	23.6	17.9
57.5°	4.5	5.0	6.3	7.8	9.5	14.4	20.8	28.0	32.6	27.2	21.9
55°	4.5	4.9	5.8	6.8	8.2	12.6	18.5	25.5	30.5	28.4	22.7
52.5°	5.5	5.6	5.9	6.3	7.6	10.4	14.5	21.0	24.4	23.5	21.3
50°	6.6	6.6	6.6	6.6	7.3	8.7	11.5	16.0	17.7	18.5	17.5
47.5°	8.7	8.6	7.9	7.6	8.3	8.1	9.6	11.6	13.7	13.9	14.0
45°	13.0	13.0	11.4	11.6	11.8	11.5	9.9	11.4	12.4	12.8	11.3
42.5°	22.4	21.7	20.5	19.5	18.6	17.7	16.4	15.6	14.4	13.8	13.8
40°	36.2	34.1	33.2	31.0	28.4	26.4	27.7	24.3	21.1	17.5	19.5
37.5°	57.4	48.3	54.4	49.2	43.5	43.4	45.4	39.9	31.3	33.7	32.6
35°	108.1	97.3	102.2	92.1	71.8	83.3	75.3	63.7	57.1	61.7	53.9
32.5°	248.9	240.6	207.5	182.2	165.1	153.1	133.9	102.8	107.1	104.5	89.3
30°	560.8	529.4	415.1	391.1	372.6	273.0	218.9	202.6	186.4	159.2	134.2
27.5°	1330.1	1115.0	921.7	935.1	751.8	543.6	397.8	326.6	286.7	240.4	194.7
25°	3172.5	2679.9	2286.0	2054.1	1568.4	1066.3	744.9	534.4	413.3	341.0	280.8
22.5°	6248.1	5396.2	4509.6	3708.5	2882.7	2115.1	1416.7	806.1	553.0	455.5	382.0
20°	10199.8	8597.9	7219.1	5863.2	4584.6	3344.7	2318.0	1332.9	777.4	573.3	481.2
17.5°	15535.8	12222.3	9930.5	8034.9	6450.7	4928.7	3294.6	1912.9	988.7	687.4	575.9
15°	21303.6	16099.4	12659.3	10302.2	8190.1	5996.2	4147.6	2463.4	1270.3	838.2	668.2
12.5°	26832.4	20086.4	15162.6	11959.5	9288.1	6903.9	4973.0	3163.8	1697.5	974.3	724.8
10°	31190.4	23351.2	17303.8	13394.3	10385.8	7732.3	5613.5	3652.9	1970.9	1081.0	772.6
7.5°	35206.4	25827.4	19017.9	14465.7	11308.4	8497.6	6114.1	3994.8	2144.4	1171.4	811.9
5°	37728.8	27629.0	20251.8	15069.7	11933.4	9126.9	6559.0	4231.1	2229.3	1244.2	843.5
2.5°	39059.0	28623.4	21046.2	15372.2	12276.7	9538.3	6909.4	4394.8	2280.5	1274.3	855.3
0°	40097.1	29074.1	21106.6	15436.4	12334.2	9611.6	7121.6	4474.7	2295.2	1278.9	861.5
-2.5°	39262.2	28651.8	20907.5	15247.6	12147.6	9447.3	7045.6	4596.6	2363.8	1297.6	866.4
-5°	36895.3	27047.5	19586.9	14333.8	11417.1	8909.6	6666.8	4442.7	2340.0	1286.8	865.2
-7.5°	33418.7	24444.8	17703.1	13160.5	10460.2	8158.2	6069.7	4024.9	2189.5	1219.3	840.5
-10°	28440.5	20946.6	15224.1	11673.3	9281.6	7287.0	5401.7	3540.7	1978.0	1132.3	810.6
-12.5°	23563.5	17263.0	12597.7	9906.5	7844.0	6167.3	4598.7	2993.4	1705.7	1026.8	775.8
-15°	18201.3	13672.4	10700.7	8405.4	6470.7	5082.9	3764.2	2385.9	1377.2	908.7	736.6
-17.5°	14802.2	11057.6	8989.6	7240.2	5610.7	4139.2	3022.8	1962.4	1175.1	825.4	708.2
-20°	12247.6	9947.3	7958.8	6351.3	4934.2	3612.3	2428.2	1542.2	1023.8	791.4	688.2



REPORT NUMBER: P731342 (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°	10895.5	9032.5	7242.4	5616.2	4287.0	3059.4	1997.5	1221.5	862.3	756.0	664.2
-25°	9529.1	8016.9	6438.2	4940.1	3599.6	2408.8	1521.4	1052.5	825.3	722.9	635.9
-27.5°	7986.8	6691.1	5455.1	4069.0	2810.0	1832.3	1205.9	896.6	792.7	697.6	602.8
-30°	6381.6	5317.8	4227.0	3068.5	2084.9	1351.0	984.2	856.4	760.7	668.5	572.6
-32.5°	4963.0	4008.0	3034.4	2164.3	1463.3	1083.5	919.4	814.5	726.6	631.5	555.6
-35°	3675.4	2802.9	2011.7	1487.6	1121.9	978.6	873.7	779.9	682.2	595.8	539.9
-37.5°	2383.0	1768.5	1406.4	1111.3	1017.0	922.2	831.1	731.8	634.2	574.6	522.6
-40°	1536.4	1214.8	1115.1	1027.3	946.7	870.1	770.3	672.9	612.4	551.7	503.7
-42.5°	1182.8	1101.7	1025.1	951.7	876.2	788.9	705.8	648.7	590.8	534.3	491.8
-45°	1076.2	1010.2	941.4	867.7	788.8	728.8	678.8	624.3	569.3	524.0	483.4
-47.5°	977.8	912.6	846.1	792.0	740.6	692.1	646.6	599.3	556.1	512.8	450.7
-50°	872.4	827.4	782.9	739.6	695.8	652.5	616.8	583.9	533.9	473.4	410.9
-52.5°	800.4	762.6	724.8	687.1	656.1	625.2	592.5	542.4	487.4	423.1	358.7
-55°	733.7	705.1	679.4	654.0	624.8	579.4	533.2	481.5	423.3	361.8	303.4
-57.5°	690.5	660.9	625.1	589.7	555.1	506.1	452.7	401.2	352.5	298.0	245.6
-60°	603.5	569.0	531.9	492.6	451.4	407.0	363.1	319.8	277.3	233.4	189.8
-62.5°	483.5	446.7	414.5	381.3	346.9	310.8	274.4	239.6	204.3	168.7	139.8
-65°	357.4	328.9	301.4	275.7	248.8	220.8	191.0	165.9	143.3	119.8	96.1
-67.5°	242.6	221.6	200.5	180.9	165.0	148.3	129.9	110.5	96.1	84.1	71.2
-70°	153.9	140.9	128.0	115.3	105.0	96.2	86.3	76.2	66.1	56.7	46.7
-72.5°	93.5	86.5	79.7	73.2	66.3	60.0	53.1	45.8	38.2	30.3	24.6
-75°	52.3	48.3	44.0	39.4	34.3	28.7	25.5	23.6	21.5	19.2	16.8
-77.5°	26.5	24.8	23.0	21.6	20.2	18.9	17.4	15.8	14.5	13.4	12.3
-80°	16.5	15.7	15.0	14.5	13.9	13.3	12.6	11.7	10.8	10.0	9.4
-82.5°	12.0	11.5	10.9	10.4	9.8	9.3	8.7	8.2	7.8	7.4	7.1
-85°	7.9	7.6	7.2	6.8	6.5	6.2	5.9	5.7	5.4	5.1	4.7
-87.5°	5.0	4.7	4.4	4.3	4.3	4.2	4.1	3.8	3.5	3.2	3.0
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1





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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°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.6	1.4	1.2	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3
77.5°	1.8	1.6	1.3	1.2	1.3	1.4	1.4	1.3	1.4	1.5	1.5
75°	1.8	1.5	1.3	1.2	1.5	1.7	1.8	1.7	1.7	1.7	1.8
72.5°	2.1	1.8	1.4	1.2	1.5	1.8	2.0	2.1	1.9	1.9	2.0
70°	3.4	2.4	2.0	1.8	1.7	1.8	2.1	2.2	2.2	2.1	2.1
67.5°	5.6	4.2	3.1	2.3	2.0	2.0	2.1	2.2	2.2	2.2	2.2
65°	8.0	6.1	4.4	3.2	2.5	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	10.5	8.0	6.0	4.2	3.0	2.4	2.2	2.2	2.2	2.2	2.2
60°	13.3	10.0	7.6	5.6	3.7	2.5	2.2	2.2	2.2	2.2	2.2
57.5°	16.3	11.7	9.1	6.8	4.8	3.0	2.2	2.2	2.2	2.2	2.2
55°	18.2	13.8	10.6	8.0	5.8	3.8	2.5	2.2	2.2	2.2	2.2
52.5°	17.4	14.9	12.3	9.1	6.6	4.7	3.4	2.2	2.2	2.2	2.2
50°	15.1	14.7	13.3	10.5	7.4	5.7	4.3	2.9	2.2	2.2	2.2
47.5°	13.6	14.1	13.4	11.5	8.5	6.7	5.2	3.7	2.2	2.2	2.2
45°	12.9	13.1	13.2	11.8	9.8	7.9	6.2	4.4	2.8	2.2	2.2
42.5°	13.3	13.4	12.7	12.3	10.9	9.0	7.2	5.3	3.5	2.3	2.2
40°	18.0	15.0	12.9	13.2	12.3	10.0	8.2	6.2	4.1	2.6	2.3
37.5°	24.7	19.8	15.3	16.6	14.3	11.4	9.0	7.2	4.8	3.2	2.4
35°	41.5	27.7	25.6	24.3	19.0	13.0	9.7	8.0	5.7	3.7	2.6
32.5°	63.1	48.6	46.1	36.9	25.4	14.7	10.9	8.8	6.5	4.3	2.7
30°	104.3	91.7	73.3	52.9	35.0	20.7	12.8	9.8	7.3	4.8	3.0
27.5°	171.6	143.1	108.9	78.1	50.3	28.5	15.7	10.9	8.1	5.3	3.4
25°	245.4	205.8	158.5	109.5	67.8	44.2	19.0	12.2	8.9	5.9	3.8
22.5°	327.0	273.5	213.7	144.9	97.1	64.4	27.3	14.9	9.8	6.5	4.1
20°	412.0	344.2	270.6	181.4	130.4	89.6	42.0	17.7	10.9	7.0	4.5
17.5°	499.6	406.6	313.1	221.6	162.5	116.0	59.0	20.7	11.9	7.5	4.8
15°	559.0	455.1	353.3	258.3	191.5	143.1	77.7	23.9	13.0	7.9	5.2
12.5°	606.7	501.1	391.0	291.7	217.7	170.5	97.4	27.0	14.0	8.6	5.7
10°	649.2	544.4	426.1	321.7	241.2	197.8	117.5	30.3	15.9	9.6	6.1
7.5°	686.8	584.3	458.1	348.4	260.5	217.1	130.3	33.7	17.9	10.6	6.6
5°	715.9	613.4	479.2	360.4	266.8	227.0	140.1	36.9	19.9	11.6	7.0
2.5°	724.6	627.0	492.0	367.6	272.0	234.8	147.5	39.8	21.7	12.5	7.4
0°	729.1	635.6	500.9	371.8	276.0	240.4	152.5	42.3	23.4	13.4	7.8
-2.5°	732.8	638.3	505.6	379.3	284.3	244.8	160.8	54.5	31.6	18.0	9.9
-5°	732.8	636.3	506.3	383.9	291.4	247.4	167.0	66.1	39.4	22.4	11.8
-7.5°	717.9	622.4	499.6	385.5	297.0	248.6	171.1	76.9	46.6	26.4	13.7
-10°	696.8	599.7	484.8	383.1	304.1	252.2	174.1	86.7	53.2	30.1	15.4
-12.5°	672.4	573.7	469.3	379.7	310.9	258.1	178.8	95.3	58.8	33.2	16.9
-15°	644.7	544.9	454.1	375.7	317.3	262.9	181.2	102.4	63.1	35.7	18.1
-17.5°	617.0	513.6	440.1	371.6	323.3	267.0	181.2	107.6	66.4	37.6	19.3
-20°	594.4	494.1	428.5	367.9	329.2	270.4	178.9	110.8	68.4	38.8	20.4



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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°	568.5	486.0	424.2	370.9	333.0	273.3	174.3	111.8	69.2	39.2	21.0
-25°	540.6	477.4	419.7	373.8	333.4	266.0	171.3	110.4	68.5	38.8	21.3
-27.5°	524.5	469.0	414.1	374.6	327.3	255.9	169.3	109.4	67.0	37.5	21.2
-30°	513.6	461.3	411.9	371.1	318.9	237.6	164.0	106.6	65.4	36.6	20.7
-32.5°	502.5	452.7	408.2	359.9	300.1	218.5	153.6	101.8	62.6	35.9	20.2
-35°	489.7	444.3	401.0	345.9	276.9	203.6	141.5	95.0	58.5	34.6	19.6
-37.5°	475.1	435.4	383.0	325.2	253.1	186.3	130.3	86.6	53.1	32.6	18.5
-40°	465.7	421.0	363.5	298.7	230.8	166.6	117.0	78.1	49.3	30.0	17.1
-42.5°	454.7	396.8	335.6	271.4	206.7	149.6	102.2	68.3	45.0	27.6	15.3
-45°	425.3	366.5	302.6	240.8	180.9	130.3	89.9	58.2	40.0	25.1	13.6
-47.5°	390.4	327.4	266.7	207.8	156.7	110.4	76.2	52.0	34.6	22.1	12.3
-50°	344.6	285.4	228.2	176.9	129.9	93.4	63.1	45.2	30.1	18.2	10.9
-52.5°	297.5	241.0	191.2	145.5	107.6	74.9	54.8	38.0	25.1	15.4	9.2
-55°	247.3	198.8	155.0	117.7	85.3	62.8	45.8	31.7	19.7	13.1	7.5
-57.5°	199.4	157.3	122.8	91.2	68.6	51.9	37.2	24.7	16.2	10.6	7.1
-60°	151.6	121.4	91.8	71.8	55.3	41.0	28.5	18.6	13.2	8.5	6.7
-62.5°	111.9	87.7	71.7	55.9	42.4	30.4	20.2	15.1	10.2	7.8	6.2
-65°	81.5	67.1	53.3	41.2	29.9	21.0	16.2	11.5	8.9	7.1	5.6
-67.5°	58.4	47.2	36.9	26.6	20.7	16.2	12.0	9.7	8.0	6.4	5.1
-70°	37.1	28.1	23.3	19.2	15.1	11.7	10.1	8.5	7.0	5.7	4.5
-72.5°	22.0	19.2	16.2	13.0	11.6	10.2	8.7	7.4	6.2	5.1	3.9
-75°	14.4	13.2	12.2	11.2	9.9	8.6	7.5	6.6	5.5	4.4	3.5
-77.5°	11.5	10.8	10.1	9.2	8.1	7.1	6.4	5.7	4.7	3.9	3.1
-80°	8.9	8.3	7.6	6.8	6.1	5.6	5.2	4.8	4.0	3.3	2.7
-82.5°	6.5	5.9	5.4	5.0	4.7	4.4	4.2	3.9	3.3	2.8	2.4
-85°	4.4	4.1	3.9	3.6	3.5	3.3	3.2	3.1	2.8	2.6	2.4
-87.5°	2.9	2.9	2.9	2.8	2.8	2.7	2.7	2.7	2.5	2.4	2.3
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	1.1	1.2	1.2	1.2	1.2	1.7	2.2
85°	1.1	1.2	1.3	1.3	1.3	1.7	2.2
82.5°	1.1	1.3	1.4	1.4	1.4	1.7	2.2
80°	1.2	1.4	1.5	1.5	1.5	1.8	2.2
77.5°	1.4	1.5	1.6	1.6	1.6	1.8	2.2
75°	1.7	1.6	1.7	1.8	1.7	1.8	2.2
72.5°	2.0	1.8	1.8	1.9	1.8	1.8	2.2
70°	2.2	2.0	1.9	2.0	1.9	1.9	2.2
67.5°	2.2	2.1	2.0	2.0	2.0	1.9	2.2
65°	2.2	2.2	2.1	2.1	2.0	1.9	2.2
62.5°	2.2	2.2	2.1	2.1	2.1	1.9	2.2
60°	2.2	2.2	2.2	2.1	2.2	2.0	2.2
57.5°	2.2	2.2	2.2	2.1	2.2	2.0	2.2
55°	2.2	2.2	2.2	2.2	2.2	2.0	2.2
52.5°	2.2	2.2	2.2	2.2	2.2	2.0	2.2
50°	2.2	2.2	2.2	2.2	2.2	2.0	2.2
47.5°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
45°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
42.5°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
40°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
37.5°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
35°	2.2	2.2	2.2	2.2	2.2	2.1	2.2
32.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
30°	2.3	2.2	2.2	2.2	2.2	2.2	2.2
27.5°	2.5	2.2	2.2	2.2	2.2	2.2	2.2
25°	2.6	2.2	2.2	2.2	2.2	2.2	2.2
22.5°	2.7	2.2	2.2	2.2	2.2	2.2	2.2
20°	2.9	2.3	2.2	2.2	2.2	2.2	2.2
17.5°	3.1	2.4	2.2	2.2	2.2	2.2	2.2
15°	3.3	2.5	2.2	2.2	2.2	2.2	2.2
12.5°	3.5	2.6	2.2	2.2	2.2	2.2	2.2
10°	3.8	2.8	2.2	2.2	2.2	2.2	2.2
7.5°	4.0	2.9	2.2	2.2	2.2	2.2	2.2
5°	4.2	3.0	2.2	2.2	2.2	2.2	2.2
2.5°	4.3	3.2	2.2	2.2	2.2	2.2	2.2
0°	4.5	3.3	2.2	2.2	2.2	2.2	2.2
-2.5°	5.5	3.7	2.3	2.2	2.2	2.2	2.2
-5°	6.5	4.0	2.4	2.2	2.2	2.2	2.2
-7.5°	7.4	4.3	2.5	2.2	2.2	2.2	2.2
-10°	8.3	4.6	2.6	2.2	2.2	2.2	2.2
-12.5°	9.0	4.9	2.6	2.2	2.2	2.2	2.2
-15°	9.6	5.1	2.7	2.2	2.2	2.2	2.2
-17.5°	10.1	5.2	2.7	2.2	2.2	2.2	2.2
-20°	10.6	5.3	2.8	2.2	2.2	2.2	2.2



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-4S-CV1

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	11.0	5.3	2.8	2.2	2.2	2.2	2.2
-25°	11.1	5.3	2.8	2.2	2.2	2.2	2.2
-27.5°	11.1	5.3	2.8	2.2	2.2	2.2	2.2
-30°	10.8	5.2	2.7	2.2	2.2	2.2	2.2
-32.5°	10.3	5.0	2.8	2.2	2.2	2.2	2.2
-35°	9.9	4.7	2.8	2.2	2.2	2.2	2.2
-37.5°	9.5	4.4	2.8	2.2	2.2	2.2	2.2
-40°	8.9	4.4	2.8	2.2	2.2	2.2	2.2
-42.5°	8.2	4.4	2.8	2.2	2.2	2.2	2.2
-45°	7.3	4.3	2.8	2.2	2.2	2.2	2.2
-47.5°	6.3	4.2	2.8	2.3	2.2	2.2	2.2
-50°	6.0	4.1	2.8	2.3	2.2	2.2	2.2
-52.5°	5.8	3.9	2.8	2.3	2.2	2.2	2.2
-55°	5.5	3.8	2.8	2.3	2.2	2.2	2.2
-57.5°	5.2	3.7	2.7	2.3	2.2	2.2	2.2
-60°	4.9	3.5	2.6	2.3	2.2	2.2	2.2
-62.5°	4.6	3.3	2.6	2.3	2.2	2.2	2.2
-65°	4.2	3.0	2.5	2.3	2.2	2.2	2.2
-67.5°	3.7	2.9	2.4	2.2	2.2	2.2	2.2
-70°	3.3	2.7	2.4	2.2	2.2	2.2	2.2
-72.5°	3.0	2.6	2.3	2.2	2.2	2.2	2.2
-75°	2.8	2.4	2.2	2.2	2.2	2.2	2.2
-77.5°	2.5	2.3	2.2	2.2	2.2	2.2	2.2
-80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
-82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
-85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
-87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
-90°	1.1	1.1	1.1	1.1	1.1	1.7	2.2

(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

