

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: P731322 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-5S-CV1**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731322 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-34)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-70-5S-CV1  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

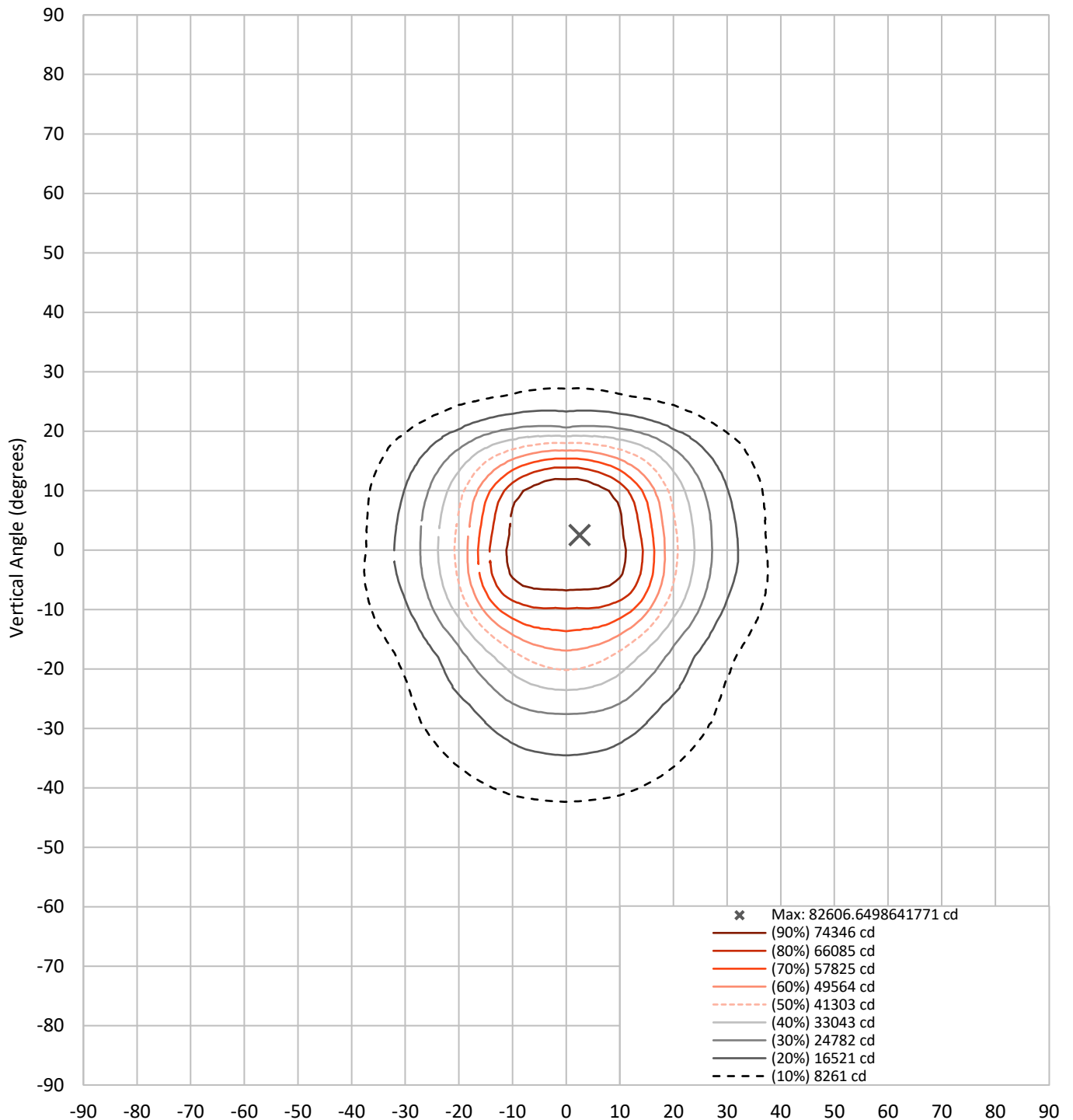
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 4V
Luminaire Lumens:	44102.4 lumens	Max Intensity:	82606.6 candela
Efficiency:	N/A	Max Intensity Angle:	2.5°H x 2.5°V
Efficacy:	127.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	41.4°H x 38°V	Field Angle (10%):	74.2°H x 69.6°V
Beam Lumens:	24300.7 lumens	Field Lumens:	41014.4 lumens
Beam Efficiency:	55.1%	Field Efficiency:	93.0%

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





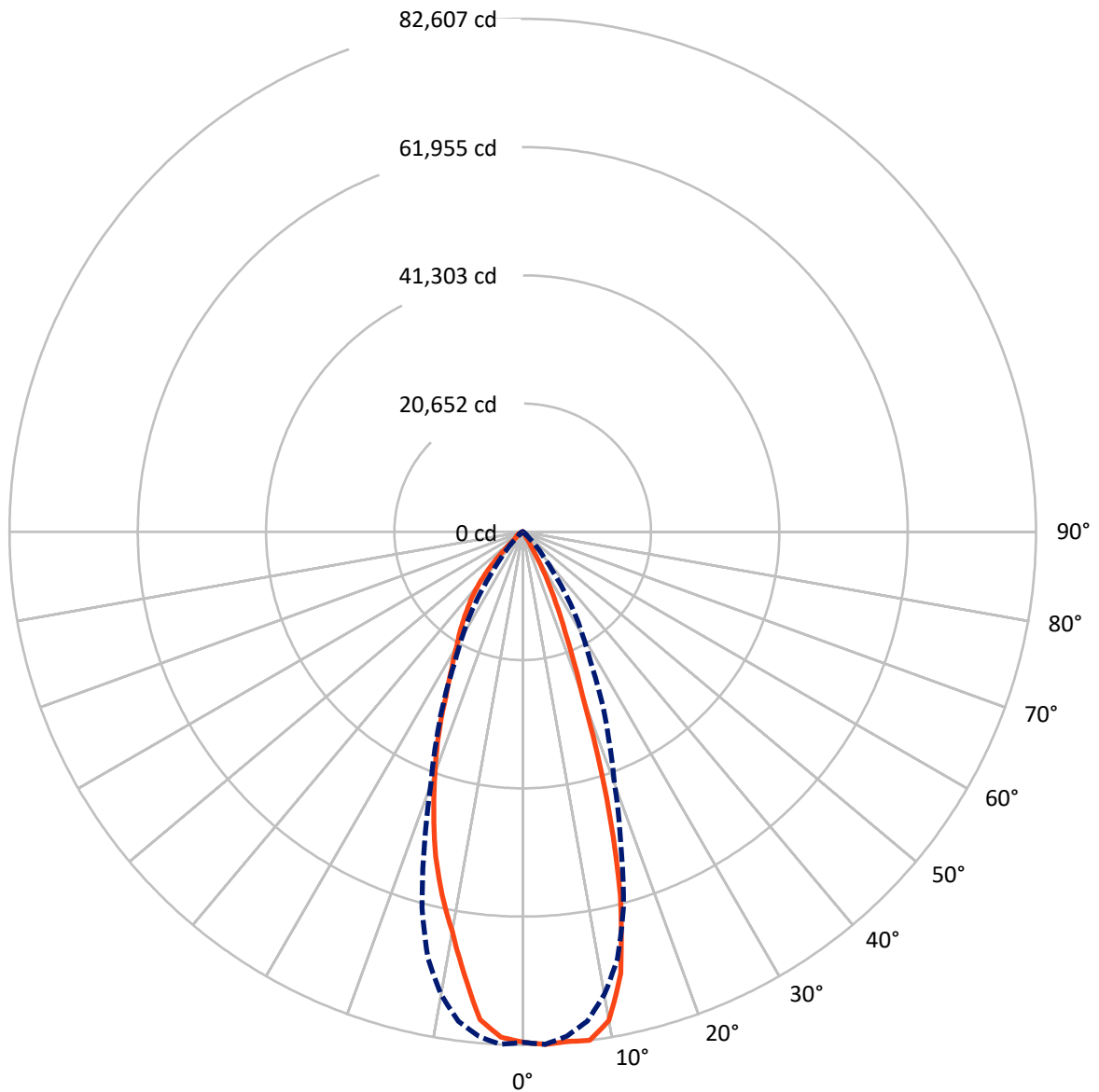
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### Lumen Table

90																
80	0.1	0.2		0.3		0.3		0.2		0.3		0.3		0.2		0.1
70																
60	0.1	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	0.1
50		0.1	0.1	0.4	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.4	0.1	0.1	
40	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.7	0.7	0.7	0.6	0.4	0.3	0.2	0.1	0.1
30		0.1	0.5	1.3	2.9	6.2	14.7	21.0	21.0	14.7	6.2	2.9	1.3	0.5	0.1	
20	0.1	0.2	2.4	8.8	48.1	147.6	297.1	399.7	399.7	297.1	147.6	48.1	8.8	2.4	0.2	0.1
10		0.7	5.8	31.8	198.2	564.2	1169.5	1684.3	1684.3	1169.5	564.2	198.2	31.8	5.8	0.7	
0	0.1	1.1	7.8	50.1	284.8	811.6	1753.5	2424.8	2424.8	1753.5	811.6	284.8	50.1	7.8	1.1	0.1
-10		1.3	8.3	52.4	286.9	791.2	1728.0	2290.5	2290.5	1728.0	791.2	286.9	52.4	8.3	1.3	
-20	0.2	1.6	8.0	35.2	188.6	521.9	1110.1	1579.1	1579.1	1110.1	521.9	188.6	35.2	8.0	1.6	0.2
-30		1.6	7.6	19.6	111.2	319.6	621.3	878.6	878.6	621.3	319.6	111.2	19.6	7.6	1.6	
-40	0.2	1.2	6.1	14.6	44.7	176.2	343.8	470.5	470.5	343.8	176.2	44.7	14.6	6.1	1.2	0.2
-50		0.8	4.0	11.4	22.0	41.0	97.1	151.0	151.0	97.1	41.0	22.0	11.4	4.0	0.8	
-60	0.1	0.4	2.0	6.2	13.5	22.0	29.9	34.7	34.7	29.9	22.0	13.5	6.2	2.0	0.4	0.1
-70		0.2	0.7	2.1	4.6	7.9	11.6	13.7	13.7	11.6	7.9	4.6	2.1	0.7	0.2	
-80																
-90	0.1	0.4		1.6		3.7		4.9		3.7		1.6		0.4		0.1

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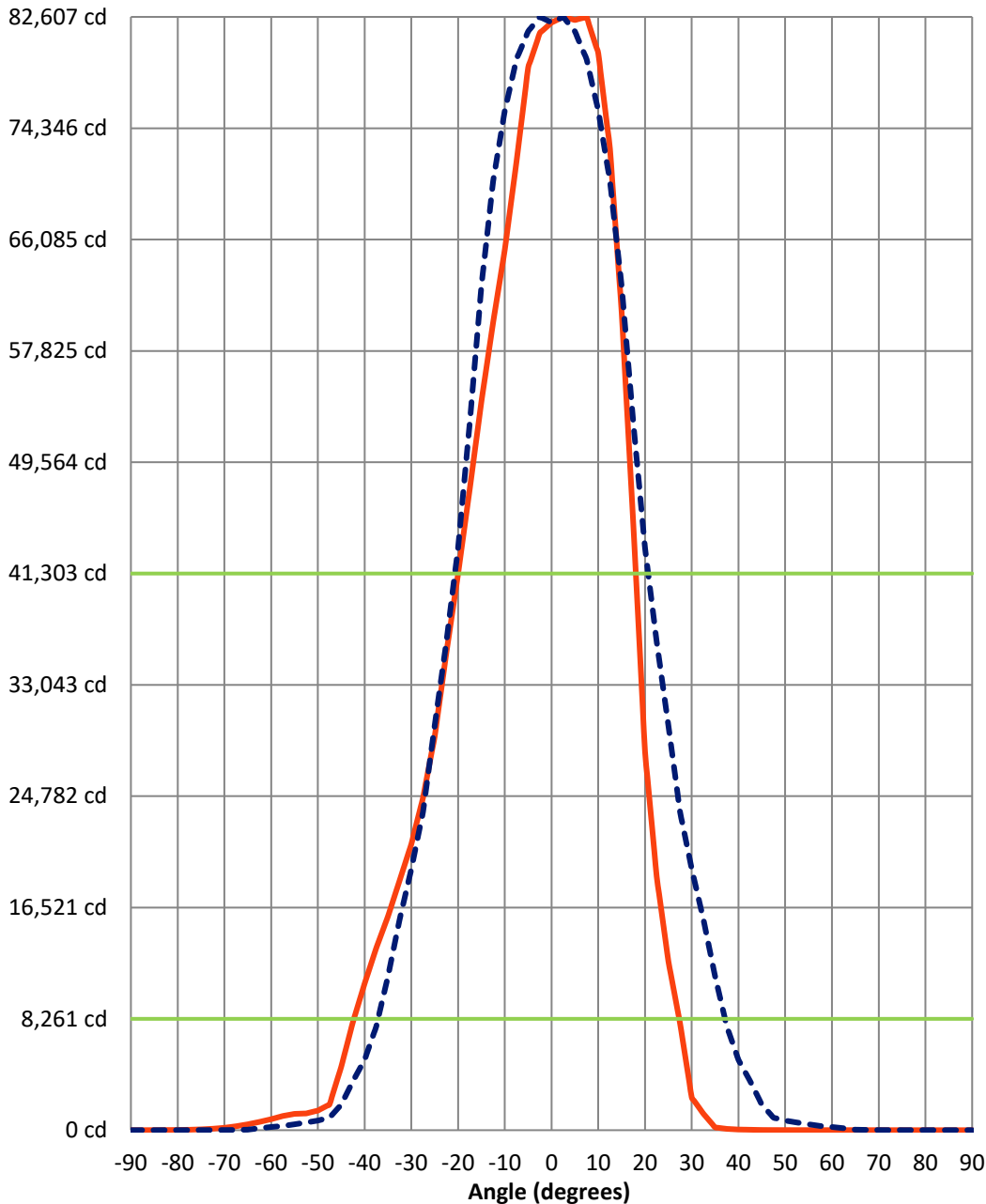
### Luminous Intensity Polar Plot



— Vertical Distribution Through 2.5-Deg      - - - Horizontal Distribution Through 2.5-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 41.4°  
 V Angle: 38°  
 Lumens: 24300.7  
 Efficiency: 55.1%

**Field:**  
 H Angle: 74.2°  
 V Angle: 69.6°  
 Lumens: 41014.4  
 Efficiency: 93.0%

**Spill:**  
 Lumens: 3088  
 Efficiency: 7.0%

— Vertical Distribution through 2.5-Deg  
 - - - Horizontal Distribution through 2.5-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°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.2	3.0	2.7	2.4
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.2	3.0	2.7	2.4
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.2	3.0	2.8	2.7
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.3	3.2	3.1	3.2
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.3	3.4	3.5
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
70°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
67.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
65°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
62.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
60°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
57.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.6	3.5	3.5	3.5	3.6
55°	3.5	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.5	3.6	3.8
52.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.7	3.6	3.5	3.8	4.0
50°	3.5	3.5	3.5	3.5	3.5	3.6	3.8	3.7	3.6	4.1	4.7
47.5°	3.5	3.5	3.5	3.5	3.5	3.7	4.0	3.7	3.9	4.5	5.3
45°	3.5	3.5	3.5	3.5	3.5	3.9	4.0	3.8	4.3	4.9	5.8
42.5°	3.5	3.5	3.5	3.5	3.5	4.0	4.1	4.0	4.7	5.3	6.2
40°	3.5	3.5	3.5	3.5	3.6	4.2	4.1	4.3	5.0	5.7	6.6
37.5°	3.5	3.5	3.5	3.5	3.7	4.3	4.2	4.6	5.4	6.1	6.9
35°	3.5	3.5	3.5	3.6	3.8	4.4	4.3	4.9	5.7	6.5	7.3
32.5°	3.5	3.5	3.5	3.6	3.9	4.5	4.4	5.2	6.0	7.0	8.3
30°	3.5	3.5	3.5	3.7	4.0	4.5	4.6	5.5	6.3	7.5	9.4
27.5°	3.5	3.5	3.5	3.7	4.2	4.6	4.8	5.7	6.7	8.0	10.7
25°	3.5	3.5	3.5	3.8	4.3	4.7	5.0	6.0	7.1	8.8	12.2
22.5°	3.5	3.5	3.5	3.9	4.4	4.7	5.2	6.2	7.5	9.9	15.0
20°	3.5	3.5	3.5	4.0	4.5	4.7	5.4	6.4	7.9	11.1	18.0
17.5°	3.5	3.5	3.5	4.1	4.6	4.7	5.6	6.6	8.3	12.3	21.2
15°	3.5	3.5	3.5	4.2	4.6	4.7	5.6	6.8	8.7	13.6	24.5
12.5°	3.5	3.5	3.5	4.3	4.6	4.7	5.7	6.9	9.0	14.8	27.8
10°	3.5	3.5	3.5	4.3	4.7	4.7	5.8	7.0	9.4	16.2	31.0
7.5°	3.5	3.5	3.5	4.4	4.7	4.7	5.8	7.0	9.7	17.6	34.0
5°	3.5	3.5	3.5	4.5	4.7	4.7	5.9	7.1	10.1	19.0	36.7
2.5°	3.5	3.5	3.5	4.6	4.7	4.7	5.9	7.1	10.4	20.2	39.2
0°	3.5	3.5	3.5	4.7	4.7	4.7	5.9	7.1	10.6	21.3	41.3
-2.5°	3.5	3.5	3.6	4.7	4.7	4.8	6.2	8.4	14.2	27.8	51.5
-5°	3.5	3.5	3.6	4.7	4.7	5.0	6.5	9.6	17.7	33.9	61.1
-7.5°	3.5	3.5	3.7	4.7	4.7	5.1	6.8	10.8	20.8	39.5	69.9
-10°	3.5	3.5	3.7	4.7	4.7	5.2	7.0	11.8	23.6	44.5	77.7
-12.5°	3.5	3.5	3.7	4.6	4.7	5.3	7.2	12.6	25.9	48.9	85.1
-15°	3.5	3.5	3.8	4.6	4.7	5.4	7.4	13.2	28.1	53.1	91.4
-17.5°	3.5	3.5	3.8	4.6	4.7	5.4	7.5	14.2	30.1	56.4	96.0
-20°	3.5	3.5	3.9	4.6	4.7	5.4	7.8	15.3	31.6	58.5	98.8



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-CV1

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.5	3.5	3.9	4.6	4.7	5.4	8.4	16.2	32.3	59.4	99.4
-25°	3.5	3.5	3.9	4.6	4.7	5.5	8.8	16.6	32.2	59.1	97.9
-27.5°	3.5	3.5	3.9	4.6	4.7	5.6	9.0	16.6	31.3	58.0	97.2
-30°	3.5	3.5	3.9	4.6	4.7	5.7	9.0	16.2	30.8	56.9	94.9
-32.5°	3.5	3.5	3.9	4.6	4.8	5.6	8.8	16.1	30.3	54.7	90.8
-35°	3.5	3.5	3.9	4.6	4.8	5.5	8.6	15.9	29.2	51.3	84.7
-37.5°	3.5	3.5	3.9	4.6	4.9	5.3	8.5	15.3	27.5	46.7	77.0
-40°	3.5	3.5	3.9	4.7	4.9	5.4	8.2	14.3	25.1	43.3	69.4
-42.5°	3.5	3.5	3.9	4.7	4.9	5.4	7.7	12.9	23.1	39.3	60.8
-45°	3.5	3.5	3.9	4.7	4.9	5.4	7.1	11.7	21.1	34.7	52.0
-47.5°	3.5	3.5	3.8	4.7	4.9	5.4	6.3	10.8	18.7	29.7	46.3
-50°	3.5	3.5	3.8	4.6	4.9	5.4	6.1	9.6	15.7	26.1	40.0
-52.5°	3.5	3.5	3.7	4.5	4.9	5.3	6.1	8.3	13.5	22.2	33.5
-55°	3.5	3.5	3.6	4.4	4.8	5.2	6.0	6.9	11.7	17.9	28.4
-57.5°	3.5	3.5	3.6	4.3	4.8	5.2	5.8	6.7	9.7	15.0	23.0
-60°	3.5	3.5	3.5	4.2	4.7	5.0	5.6	6.5	7.9	12.4	18.0
-62.5°	3.5	3.5	3.5	4.1	4.6	4.9	5.4	6.2	7.4	9.5	14.6
-65°	3.5	3.5	3.5	4.0	4.5	4.8	5.2	5.9	6.9	8.4	11.0
-67.5°	3.5	3.5	3.5	3.9	4.4	4.7	5.0	5.6	6.3	7.6	9.1
-70°	3.5	3.5	3.5	3.8	4.3	4.6	4.7	5.3	6.0	6.7	8.0
-72.5°	3.5	3.5	3.5	3.7	4.2	4.5	4.7	5.0	5.6	6.3	6.9
-75°	3.5	3.5	3.5	3.7	4.1	4.4	4.7	4.9	5.3	5.8	6.4
-77.5°	3.5	3.5	3.5	3.7	4.0	4.4	4.7	4.8	5.1	5.5	6.0
-80°	3.5	3.5	3.5	3.6	3.9	4.3	4.7	4.8	4.9	5.2	5.5
-82.5°	3.5	3.5	3.5	3.6	3.8	4.1	4.4	4.6	4.7	4.8	5.0
-85°	3.5	3.5	3.5	3.6	3.7	3.9	4.1	4.2	4.3	4.4	4.5
-87.5°	3.5	3.5	3.5	3.5	3.6	3.7	3.8	3.9	3.9	4.0	4.0
-90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.2	3.0	2.7	2.4





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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°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	2.7	2.7	2.6	2.4	2.4	2.4	2.4	2.5	2.6	2.6	2.5
80°	3.1	3.0	2.7	2.4	2.5	2.7	2.9	3.3	3.2	3.0	2.9
77.5°	3.3	3.0	2.7	2.5	2.6	3.0	3.3	3.5	3.4	3.4	3.5
75°	3.3	3.0	2.9	2.9	3.2	3.4	3.5	3.7	3.9	3.9	3.8
72.5°	3.4	3.3	3.3	3.5	3.5	3.7	4.0	4.4	4.7	4.7	4.6
70°	3.5	3.5	3.5	3.5	3.6	4.0	4.6	5.2	5.6	5.8	6.4
67.5°	3.5	3.5	3.5	3.6	4.0	4.7	5.3	6.7	8.5	9.2	9.8
65°	3.5	3.5	3.6	4.0	4.6	5.6	7.1	9.1	12.6	14.3	15.0
62.5°	3.5	3.6	3.9	4.5	5.3	6.5	9.5	13.4	17.8	20.2	19.7
60°	3.5	3.6	4.4	5.3	6.3	8.9	12.8	17.3	23.0	27.0	24.2
57.5°	3.6	4.1	5.3	6.5	8.4	11.1	15.0	20.5	26.2	32.3	27.9
55°	4.0	5.1	6.3	7.9	10.0	12.0	16.0	21.1	27.4	31.3	27.5
52.5°	4.9	6.0	7.1	8.9	11.0	12.6	15.0	19.7	23.4	26.6	24.5
50°	5.7	6.5	7.6	9.7	11.6	12.6	12.4	16.0	19.2	20.6	20.8
47.5°	6.2	7.0	8.3	10.5	12.0	12.2	11.1	12.9	15.3	16.7	16.3
45°	6.6	7.7	9.2	11.1	12.2	11.8	11.6	10.9	13.8	15.1	15.4
42.5°	7.1	8.6	10.4	11.8	12.3	12.9	13.2	13.3	14.8	17.7	19.2
40°	7.8	9.4	11.8	13.1	13.3	15.3	17.4	19.0	20.1	24.1	26.9
37.5°	8.5	10.9	13.8	15.9	16.2	19.8	23.1	33.5	35.6	32.5	42.8
35°	9.1	12.6	17.5	22.4	25.3	26.2	40.6	54.8	60.8	59.6	68.2
32.5°	10.4	14.5	22.2	33.5	44.7	47.6	63.0	86.9	108.3	117.0	111.7
30°	12.4	18.9	29.8	47.6	73.0	100.9	105.3	131.9	175.1	210.4	263.1
27.5°	15.5	24.6	43.3	73.5	114.2	171.3	185.2	208.3	272.7	361.2	531.2
25°	19.1	39.2	58.7	108.1	183.2	250.2	276.6	320.1	394.7	680.9	1072.3
22.5°	26.9	58.6	90.4	147.8	263.8	332.9	380.6	453.7	631.1	1088.1	1849.8
20°	40.9	85.6	130.5	198.0	349.0	420.3	484.3	595.4	991.5	1841.2	3079.4
17.5°	57.4	114.7	171.9	258.5	395.0	492.4	591.5	740.8	1369.8	2719.6	4364.7
15°	75.8	145.5	210.9	310.9	435.2	540.0	678.3	1022.6	1970.2	3722.4	5545.3
12.5°	95.5	177.3	247.3	355.6	472.5	584.7	749.5	1263.4	2596.1	4633.5	6758.2
10°	115.8	209.5	281.4	393.3	506.8	626.1	813.9	1483.3	3037.4	4975.3	7339.2
7.5°	128.4	229.6	308.8	424.7	537.7	663.8	871.1	1677.6	3349.7	5147.7	7578.6
5°	137.8	234.7	311.6	433.9	557.4	693.9	915.7	1840.6	3543.8	5172.2	7652.4
2.5°	145.1	236.7	312.2	436.7	569.3	714.3	930.9	1894.5	3632.7	5219.5	7703.6
0°	150.0	236.2	310.6	435.7	577.4	729.8	936.4	1904.7	3634.6	5250.0	7722.7
-2.5°	158.0	244.6	326.4	454.0	586.6	733.0	944.1	1958.3	3811.0	5580.5	8305.5
-5°	163.7	250.9	339.5	468.3	592.0	731.4	942.8	1961.2	3833.1	5657.2	8329.1
-7.5°	167.2	255.1	349.4	476.8	587.3	713.0	910.6	1802.7	3495.9	5310.3	7763.2
-10°	169.3	260.5	356.4	471.8	569.8	682.8	864.8	1606.7	3092.5	4864.0	7079.3
-12.5°	173.2	266.7	361.0	466.1	553.4	649.6	811.0	1378.7	2634.4	4318.5	6286.8
-15°	174.4	270.8	363.4	460.4	539.8	613.8	749.4	1123.3	2175.4	3839.5	5502.3
-17.5°	172.9	272.8	363.5	455.9	530.1	576.1	686.4	902.5	1833.1	3374.6	4908.9
-20°	168.5	272.6	361.5	453.1	524.0	563.7	665.6	854.4	1539.0	2829.9	4348.2



REPORT NUMBER: P731322 (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°	161.2	270.4	358.0	448.3	523.5	575.1	648.0	793.8	1170.1	2200.9	3767.1
-25°	156.5	260.2	352.6	435.9	519.9	587.4	629.1	729.0	939.0	1720.6	2983.9
-27.5°	154.2	246.5	336.2	418.2	510.8	594.4	632.6	705.5	854.0	1192.9	2158.8
-30°	149.0	223.5	316.5	395.9	489.5	580.3	646.6	681.1	777.1	974.5	1542.8
-32.5°	138.6	200.0	290.4	371.7	459.9	559.4	649.1	683.2	745.2	858.9	1071.8
-35°	126.5	185.0	262.0	343.6	424.4	525.3	620.1	692.7	720.0	802.2	950.9
-37.5°	115.9	167.4	233.0	312.2	390.4	483.3	587.6	672.0	728.0	764.2	874.0
-40°	103.7	147.3	209.1	280.1	356.1	440.8	537.4	635.9	715.4	783.7	829.8
-42.5°	90.3	131.8	184.4	248.0	321.3	399.9	483.5	581.0	682.7	780.0	851.2
-45°	79.7	114.6	158.3	218.2	284.4	357.0	435.3	517.7	623.9	733.6	833.0
-47.5°	68.1	97.2	137.2	185.6	247.0	313.5	384.5	462.4	550.0	655.6	769.7
-50°	57.0	83.1	113.9	157.2	208.5	268.8	333.8	401.9	479.4	567.2	667.6
-52.5°	49.3	67.8	95.4	128.5	172.5	223.8	281.2	341.3	407.4	479.6	562.0
-55°	41.1	57.1	77.0	104.3	137.6	181.3	228.1	281.5	336.4	399.1	462.6
-57.5°	33.8	47.0	62.5	82.5	109.1	139.3	180.0	222.1	270.8	321.6	372.2
-60°	27.0	37.5	50.2	65.5	83.6	108.4	134.3	169.4	208.4	246.6	288.9
-62.5°	20.3	28.9	38.9	50.8	65.5	80.0	100.6	124.6	150.2	181.7	212.6
-65°	16.0	20.9	28.5	38.1	48.5	60.9	73.7	86.7	107.2	127.7	147.0
-67.5°	11.5	15.9	20.3	25.8	34.5	43.3	52.5	63.9	75.3	85.9	98.5
-70°	9.5	11.2	14.7	18.7	22.6	27.3	34.9	42.9	51.0	59.0	68.0
-72.5°	8.0	9.4	10.9	12.6	15.7	18.8	21.9	24.8	29.9	36.5	42.8
-75°	6.9	7.6	8.7	10.1	11.4	12.7	14.1	16.7	19.2	21.7	24.2
-77.5°	6.3	6.7	7.3	7.9	8.6	9.7	10.8	11.8	12.8	13.8	14.8
-80°	5.7	5.9	6.2	6.6	7.0	7.5	8.1	8.7	9.4	10.2	11.1
-82.5°	5.2	5.3	5.4	5.6	5.7	5.8	6.0	6.3	6.7	7.1	7.6
-85°	4.6	4.7	4.8	4.9	5.0	5.0	5.1	5.2	5.3	5.3	5.4
-87.5°	4.1	4.1	4.1	4.2	4.2	4.3	4.3	4.3	4.4	4.4	4.5
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



REPORT NUMBER: P731322 (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°	3.5	3.5	3.5	3.5	3.5	3.2	3.0	2.7	2.4	2.4	2.4
87.5°	2.4	2.4	2.4	2.4	2.4	2.1	1.8	1.5	1.2	1.2	1.2
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.1	1.8
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.1	1.8
80°	2.7	2.7	2.7	2.6	2.4	2.4	2.4	2.4	2.4	2.1	1.8
77.5°	3.5	3.3	3.0	2.7	2.5	2.4	2.4	2.4	2.4	2.1	1.8
75°	3.6	3.4	3.3	3.1	3.0	2.9	2.8	2.6	2.4	2.4	2.3
72.5°	4.5	4.4	4.4	4.5	4.5	4.3	4.1	3.8	3.4	3.3	3.4
70°	6.8	7.1	7.1	7.0	6.6	6.1	5.6	5.1	4.6	4.5	4.5
67.5°	10.5	10.6	10.3	9.5	8.3	7.2	6.6	5.9	5.1	4.8	5.1
65°	14.8	13.1	11.7	10.5	9.4	8.4	7.6	6.8	6.0	5.9	6.6
62.5°	17.7	13.9	11.8	10.7	10.0	9.3	8.2	7.3	6.4	6.0	6.1
60°	20.1	14.8	11.2	10.2	9.3	8.4	7.3	6.4	5.6	5.1	4.9
57.5°	21.3	15.1	10.2	8.9	7.7	6.4	5.8	5.6	5.2	4.7	5.0
55°	20.5	14.1	8.8	7.8	7.4	7.1	6.9	6.3	5.8	5.5	5.7
52.5°	17.6	12.8	9.3	8.1	7.8	7.4	7.1	6.9	6.8	6.7	6.8
50°	15.7	12.0	9.6	8.2	8.1	8.2	8.2	8.3	8.4	8.5	8.6
47.5°	14.0	11.3	10.7	9.3	9.5	10.3	10.4	10.6	11.2	11.1	10.9
45°	14.0	15.0	14.7	13.9	13.4	18.6	18.9	15.8	18.8	18.5	16.2
42.5°	20.5	22.0	22.3	27.4	37.0	36.5	35.5	40.2	37.0	32.4	29.1
40°	31.7	31.7	37.7	46.2	45.9	44.1	50.0	50.7	50.3	53.0	52.2
37.5°	50.5	51.1	53.8	59.0	68.0	63.7	76.5	84.7	86.0	97.5	106.3
35°	84.0	98.4	85.6	116.2	136.3	132.0	150.6	183.9	152.6	233.5	248.1
32.5°	157.4	189.8	214.8	249.8	295.1	361.9	366.9	603.7	651.0	790.8	981.8
30°	271.0	365.0	545.6	592.8	665.6	942.7	1270.3	1680.2	2061.3	2333.4	2691.4
27.5°	652.6	807.8	1196.9	1619.6	1594.9	2112.6	3284.4	3644.8	4634.2	4963.4	5798.5
25°	1459.6	1831.5	2773.2	3612.4	4040.0	5404.1	6950.0	7647.2	8950.5	9643.5	10665.9
22.5°	2854.5	3874.6	5123.6	6412.3	8018.2	10106.8	12017.8	13412.7	15167.6	16576.5	17410.4
20°	4620.2	6031.7	7955.1	9957.0	12441.0	15184.8	17179.4	20005.6	22645.0	25151.3	26281.8
17.5°	6301.6	8659.9	10986.9	13403.1	16661.6	20250.7	23501.6	27634.9	32011.4	35377.0	38120.6
15°	7726.2	10350.4	13707.9	16595.6	20325.1	24800.8	29633.8	34918.1	41212.0	45995.7	51147.4
12.5°	9041.4	11672.7	15315.5	18764.3	23786.2	28841.1	34481.1	41046.9	48322.6	55399.0	62037.1
10°	9888.1	12920.7	16824.3	21014.3	26158.4	32028.1	38443.9	45799.4	55123.2	63213.3	70691.7
7.5°	10400.3	14058.9	18101.0	22568.9	28075.7	34115.9	40872.6	49543.8	59340.3	67790.6	74509.0
5°	10904.1	14991.4	18925.1	23318.2	29323.6	35470.1	42060.5	50758.5	60862.7	69321.1	75354.2
2.5°	11409.3	15633.3	19377.8	23616.5	30032.2	36235.3	43213.1	52479.6	62636.0	70404.3	75645.1
0°	11871.0	15862.3	19540.6	23691.3	30340.7	36569.6	43673.6	52824.0	64154.2	71625.4	76699.5
-2.5°	12038.5	15849.9	19364.6	23479.8	30083.0	36112.1	43182.4	53043.6	63617.0	71219.3	76371.6
-5°	11529.2	14988.0	18408.3	22576.7	28715.0	34938.2	42055.9	51834.2	61871.0	69741.4	74654.5
-7.5°	10571.6	13696.7	17060.9	21191.6	26768.8	32782.6	39262.0	47803.1	57684.1	65016.1	68885.8
-10°	9569.3	12249.8	15427.9	19251.0	24165.8	29876.8	35247.7	42515.2	51647.8	58148.1	62108.3
-12.5°	8423.5	10598.7	13532.0	16873.6	21260.7	26239.6	31152.0	37299.0	44273.7	50959.4	55082.3
-15°	7220.7	8971.2	11519.9	14726.4	18191.0	21915.1	26457.8	31437.2	36998.6	42417.7	47114.5
-17.5°	6257.9	7608.7	9947.5	12829.2	15471.0	18492.3	22919.9	26967.8	31037.9	35408.5	39321.1
-20°	5638.6	6906.6	8795.9	11201.9	13822.6	16868.1	20289.6	23830.0	27613.5	30969.1	34417.7



REPORT NUMBER: P731322 (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°	5144.4	6447.7	7905.4	9910.5	12700.0	15498.0	18130.0	20839.4	23978.3	27405.9	30294.8
-25°	4502.4	5869.1	7254.0	9161.2	11509.8	13982.8	15920.6	17849.7	20681.8	23596.8	25985.1
-27.5°	3609.5	5154.8	6771.8	8324.1	10326.1	12085.0	13787.8	15536.1	18005.6	20466.1	22250.6
-30°	2575.7	4360.5	6039.8	7626.0	9000.6	10385.5	11809.7	13599.4	15663.8	17643.6	19160.5
-32.5°	1884.7	3222.1	5038.1	6657.1	8002.2	9161.6	10255.3	11847.8	13463.0	15050.5	16500.3
-35°	1202.6	2180.1	3595.2	5243.8	6823.0	8053.9	9243.1	10397.0	11610.8	12963.9	14218.5
-37.5°	1035.5	1298.3	2167.7	3397.6	4911.1	6519.6	7688.8	8837.5	10076.5	11093.1	12147.8
-40°	938.5	1075.8	1296.0	1732.3	2875.1	4009.8	5323.4	6552.0	7736.4	8779.8	9743.6
-42.5°	896.1	978.3	1067.2	1232.7	1417.1	1961.2	2918.8	3813.4	4867.5	5914.8	6829.6
-45°	917.6	945.8	991.0	1072.4	1147.9	1301.1	1462.5	1631.1	2351.4	3106.7	3753.9
-47.5°	858.8	941.1	985.0	1020.3	1059.1	1125.8	1194.8	1288.8	1451.1	1615.7	1746.1
-50°	761.3	849.0	926.0	1001.9	1038.6	1065.2	1093.7	1148.7	1224.1	1301.6	1358.6
-52.5°	640.1	724.9	809.6	886.5	949.2	1009.8	1069.7	1114.7	1154.1	1193.0	1211.8
-55°	531.6	602.4	670.7	739.9	808.2	873.0	939.4	1006.9	1069.6	1127.5	1156.2
-57.5°	429.7	489.0	547.8	600.6	655.0	710.4	771.9	837.4	902.3	962.9	994.3
-60°	332.9	378.5	426.5	469.6	510.1	547.9	601.0	654.8	706.4	750.3	773.6
-62.5°	243.4	278.8	315.2	349.4	381.9	414.1	454.0	493.0	530.4	560.6	578.2
-65°	168.8	195.1	219.5	243.2	266.2	293.6	323.9	353.0	380.7	401.3	413.0
-67.5°	115.1	130.8	144.5	157.3	173.8	193.1	214.3	234.3	252.9	266.4	275.3
-70°	77.0	85.4	93.0	101.6	112.1	122.6	134.1	145.4	156.4	164.0	168.7
-72.5°	48.8	54.2	59.4	65.4	70.9	76.5	82.1	87.2	92.0	96.4	100.4
-75°	26.8	29.6	33.7	37.4	40.9	44.7	48.4	51.6	54.4	56.3	57.7
-77.5°	16.4	18.2	19.9	21.4	22.7	24.3	26.2	28.1	30.1	31.3	32.3
-80°	11.9	12.5	13.0	13.6	14.2	14.8	15.2	15.6	15.8	16.3	16.8
-82.5°	8.0	8.4	8.7	9.0	9.3	9.8	10.3	10.8	11.3	11.7	12.1
-85°	5.5	5.4	5.4	5.4	5.5	5.8	6.1	6.5	6.8	6.9	7.0
-87.5°	4.5	4.3	4.0	3.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5
-90°	2.4	2.4	2.4	2.4	2.4	2.1	1.8	1.5	1.2	1.2	1.2



REPORT NUMBER: P731322 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-CV1

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.7
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5
85°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.3	2.3
82.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.4
80°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.4
77.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.4
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.4	2.6
72.5°	3.4	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.3	3.4	3.8
70°	4.6	4.7	4.7	4.7	4.7	4.7	4.6	4.5	4.5	4.6	5.1
67.5°	5.5	5.8	5.9	5.9	5.9	5.8	5.5	5.1	4.8	5.1	5.9
65°	7.3	8.1	7.7	7.1	7.7	8.1	7.3	6.6	5.9	6.0	6.8
62.5°	6.1	6.0	5.9	5.9	5.9	6.0	6.1	6.1	6.0	6.4	7.3
60°	4.8	4.8	4.7	4.7	4.7	4.8	4.8	4.9	5.1	5.6	6.4
57.5°	5.3	5.7	5.9	5.9	5.9	5.7	5.3	5.0	4.7	5.2	5.6
55°	5.8	5.9	5.9	5.9	5.9	5.9	5.8	5.7	5.5	5.8	6.3
52.5°	6.9	7.0	7.1	7.1	7.1	7.0	6.9	6.8	6.7	6.8	6.9
50°	8.5	8.4	8.3	8.3	8.3	8.4	8.5	8.6	8.5	8.4	8.3
47.5°	10.8	10.6	10.6	10.6	10.6	10.6	10.8	10.9	11.1	11.2	10.6
45°	16.2	15.7	15.3	15.4	15.3	15.7	16.2	16.2	18.5	18.8	15.8
42.5°	30.9	32.0	33.3	35.4	33.3	32.0	30.9	29.1	32.4	37.0	40.2
40°	52.7	51.2	49.2	49.6	49.2	51.2	52.7	52.2	53.0	50.3	50.7
37.5°	109.6	105.4	97.5	92.1	97.5	105.4	109.6	106.3	97.5	86.0	84.7
35°	225.1	219.8	206.9	203.1	206.9	219.8	225.1	248.1	233.5	152.6	183.9
32.5°	1059.6	1181.1	1219.3	1221.0	1219.3	1181.1	1059.6	981.8	790.8	651.0	603.7
30°	2719.3	2689.7	2427.4	2157.4	2427.4	2689.7	2719.3	2691.4	2333.4	2061.3	1680.2
27.5°	6544.5	7344.0	7921.5	7734.5	7921.5	7344.0	6544.5	5798.5	4963.4	4634.2	3644.8
25°	11787.3	12353.2	12538.8	12263.1	12538.8	12353.2	11787.3	10665.9	9643.5	8950.5	7647.2
22.5°	18505.9	18845.7	18816.1	18195.7	18816.1	18845.7	18505.9	17410.4	16576.5	15167.6	13412.7
20°	27868.3	27814.2	28092.5	26830.0	28092.5	27814.2	27868.3	26281.8	25151.3	22645.0	20005.6
17.5°	41110.2	43285.1	44941.0	44782.4	44941.0	43285.1	41110.2	38120.6	35377.0	32011.4	27634.9
15°	55176.7	58462.9	60709.1	60854.9	60709.1	58462.9	55176.7	51147.4	45995.7	41212.0	34918.1
12.5°	67404.2	70918.6	72826.3	72536.4	72826.3	70918.6	67404.2	62037.1	55399.0	48322.6	41046.9
10°	75193.5	77898.6	79906.3	80405.0	79906.3	77898.6	75193.5	70691.7	63213.3	55123.2	45799.4
7.5°	78316.9	80848.7	82598.7	82572.4	82598.7	80848.7	78316.9	74509.0	67790.6	59340.3	49543.8
5°	78894.9	81387.6	82378.2	82565.9	82378.2	81387.6	78894.9	75354.2	69321.1	60862.7	50758.5
2.5°	79463.4	81530.0	82606.6	82197.5	82606.6	81530.0	79463.4	75645.1	70404.3	62636.0	52479.6
0°	79685.8	81342.6	82183.9	81923.6	82183.9	81342.6	79685.8	76699.5	71625.4	64154.2	52824.0
-2.5°	79609.7	80699.5	81411.6	81165.4	81411.6	80699.5	79609.7	76371.6	71219.3	63617.0	53043.6
-5°	77572.4	78510.9	78842.8	79024.6	78842.8	78510.9	77572.4	74654.5	69741.4	61871.0	51834.2
-7.5°	71025.6	72259.1	71862.5	72460.8	71862.5	72259.1	71025.6	68885.8	65016.1	57684.1	47803.1
-10°	64549.1	65749.5	65337.6	65723.5	65337.6	65749.5	64549.1	62108.3	58148.1	51647.8	42515.2
-12.5°	58441.8	59951.8	59929.4	60477.0	59929.4	59951.8	58441.8	55082.3	50959.4	44273.7	37299.0
-15°	51099.4	53022.5	54069.8	54741.7	54069.8	53022.5	51099.4	47114.5	42417.7	36998.6	31437.2
-17.5°	43343.3	45816.3	47578.3	47849.1	47578.3	45816.3	43343.3	39321.1	35408.5	31037.9	26967.8
-20°	37380.4	39610.0	41268.2	41803.1	41268.2	39610.0	37380.4	34417.7	30969.1	27613.5	23830.0



REPORT NUMBER: P731322 (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°	32385.3	34225.2	35424.2	35719.4	35424.2	34225.2	32385.3	30294.8	27405.9	23978.3	20839.4
-25°	27549.9	28578.6	29207.9	29445.6	29207.9	28578.6	27549.9	25985.1	23596.8	20681.8	17849.7
-27.5°	23614.4	24348.1	24662.3	24786.0	24662.3	24348.1	23614.4	22250.6	20466.1	18005.6	15536.1
-30°	20320.0	20883.4	21228.6	21356.8	21228.6	20883.4	20320.0	19160.5	17643.6	15663.8	13599.4
-32.5°	17608.2	18169.0	18532.7	18663.3	18532.7	18169.0	17608.2	16500.3	15050.5	13463.0	11847.8
-35°	15069.0	15532.6	15864.0	16018.2	15864.0	15532.6	15069.0	14218.5	12963.9	11610.8	10397.0
-37.5°	12824.6	13242.8	13518.8	13604.5	13518.8	13242.8	12824.6	12147.8	11093.1	10076.5	8837.5
-40°	10286.6	10664.1	10874.1	10863.8	10874.1	10664.1	10286.6	9743.6	8779.8	7736.4	6552.0
-42.5°	7370.1	7751.4	8020.9	8223.4	8020.9	7751.4	7370.1	6829.6	5914.8	4867.5	3813.4
-45°	4187.1	4500.3	4702.0	4796.6	4702.0	4500.3	4187.1	3753.9	3106.7	2351.4	1631.1
-47.5°	1823.6	1880.5	1909.1	1909.4	1909.1	1880.5	1823.6	1746.1	1615.7	1451.1	1288.8
-50°	1400.0	1435.7	1456.4	1461.9	1456.4	1435.7	1400.0	1358.6	1301.6	1224.1	1148.7
-52.5°	1224.9	1237.3	1242.9	1243.4	1242.9	1237.3	1224.9	1211.8	1193.0	1154.1	1114.7
-55°	1180.4	1201.0	1209.2	1208.0	1209.2	1201.0	1180.4	1156.2	1127.5	1069.6	1006.9
-57.5°	1020.4	1041.0	1052.9	1056.9	1052.9	1041.0	1020.4	994.3	962.9	902.3	837.4
-60°	791.7	804.6	815.7	823.0	815.7	804.6	791.7	773.6	750.3	706.4	654.8
-62.5°	592.5	603.4	613.8	621.1	613.8	603.4	592.5	578.2	560.6	530.4	493.0
-65°	421.5	426.8	435.5	442.8	435.5	426.8	421.5	413.0	401.3	380.7	353.0
-67.5°	282.4	287.5	290.7	291.7	290.7	287.5	282.4	275.3	266.4	252.9	234.3
-70°	172.0	173.9	177.6	180.7	177.6	173.9	172.0	168.7	164.0	156.4	145.4
-72.5°	104.0	107.1	107.2	106.3	107.2	107.1	104.0	100.4	96.4	92.0	87.2
-75°	58.8	59.6	60.0	60.2	60.0	59.6	58.8	57.7	56.3	54.4	51.6
-77.5°	33.2	33.9	33.6	33.1	33.6	33.9	33.2	32.3	31.3	30.1	28.1
-80°	17.2	17.6	17.7	17.7	17.7	17.6	17.2	16.8	16.3	15.8	15.6
-82.5°	12.5	12.9	12.4	11.8	12.4	12.9	12.5	12.1	11.7	11.3	10.8
-85°	7.0	7.1	7.1	7.1	7.1	7.1	7.0	7.0	6.9	6.8	6.5
-87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
-90°	1.2	1.2	0.6	0.0	0.6	1.2	1.2	1.2	1.2	1.2	1.5



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	3.0	3.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	1.8	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.6	2.6	2.5
80°	2.4	2.4	2.4	2.6	2.7	2.7	2.7	2.9	3.0	3.2	3.3
77.5°	2.4	2.4	2.5	2.7	3.0	3.3	3.5	3.5	3.4	3.4	3.5
75°	2.8	2.9	3.0	3.1	3.3	3.4	3.6	3.8	3.9	3.9	3.7
72.5°	4.1	4.3	4.5	4.5	4.4	4.4	4.5	4.6	4.7	4.7	4.4
70°	5.6	6.1	6.6	7.0	7.1	7.1	6.8	6.4	5.8	5.6	5.2
67.5°	6.6	7.2	8.3	9.5	10.3	10.6	10.5	9.8	9.2	8.5	6.7
65°	7.6	8.4	9.4	10.5	11.7	13.1	14.8	15.0	14.3	12.6	9.1
62.5°	8.2	9.3	10.0	10.7	11.8	13.9	17.7	19.7	20.2	17.8	13.4
60°	7.3	8.4	9.3	10.2	11.2	14.8	20.1	24.2	27.0	23.0	17.3
57.5°	5.8	6.4	7.7	8.9	10.2	15.1	21.3	27.9	32.3	26.2	20.5
55°	6.9	7.1	7.4	7.8	8.8	14.1	20.5	27.5	31.3	27.4	21.1
52.5°	7.1	7.4	7.8	8.1	9.3	12.8	17.6	24.5	26.6	23.4	19.7
50°	8.2	8.2	8.1	8.2	9.6	12.0	15.7	20.8	20.6	19.2	16.0
47.5°	10.4	10.3	9.5	9.3	10.7	11.3	14.0	16.3	16.7	15.3	12.9
45°	18.9	18.6	13.4	13.9	14.7	15.0	14.0	15.4	15.1	13.8	10.9
42.5°	35.5	36.5	37.0	27.4	22.3	22.0	20.5	19.2	17.7	14.8	13.3
40°	50.0	44.1	45.9	46.2	37.7	31.7	31.7	26.9	24.1	20.1	19.0
37.5°	76.5	63.7	68.0	59.0	53.8	51.1	50.5	42.8	32.5	35.6	33.5
35°	150.6	132.0	136.3	116.2	85.6	98.4	84.0	68.2	59.6	60.8	54.8
32.5°	366.9	361.9	295.1	249.8	214.8	189.8	157.4	111.7	117.0	108.3	86.9
30°	1270.3	942.7	665.6	592.8	545.6	365.0	271.0	263.1	210.4	175.1	131.9
27.5°	3284.4	2112.6	1594.9	1619.6	1196.9	807.8	652.6	531.2	361.2	272.7	208.3
25°	6950.0	5404.1	4040.0	3612.4	2773.2	1831.5	1459.6	1072.3	680.9	394.7	320.1
22.5°	12017.8	10106.8	8018.2	6412.3	5123.6	3874.6	2854.5	1849.8	1088.1	631.1	453.7
20°	17179.4	15184.8	12441.0	9957.0	7955.1	6031.7	4620.2	3079.4	1841.2	991.5	595.4
17.5°	23501.6	20250.7	16661.6	13403.1	10986.9	8659.9	6301.6	4364.7	2719.6	1369.8	740.8
15°	29633.8	24800.8	20325.1	16595.6	13707.9	10350.4	7726.2	5545.3	3722.4	1970.2	1022.6
12.5°	34481.1	28841.1	23786.2	18764.3	15315.5	11672.7	9041.4	6758.2	4633.5	2596.1	1263.4
10°	38443.9	32028.1	26158.4	21014.3	16824.3	12920.7	9888.1	7339.2	4975.3	3037.4	1483.3
7.5°	40872.6	34115.9	28075.7	22568.9	18101.0	14058.9	10400.3	7578.6	5147.7	3349.7	1677.6
5°	42060.5	35470.1	29323.6	23318.2	18925.1	14991.4	10904.1	7652.4	5172.2	3543.8	1840.6
2.5°	43213.1	36235.3	30032.2	23616.5	19377.8	15633.3	11409.3	7703.6	5219.5	3632.7	1894.5
0°	43673.6	36569.6	30340.7	23691.3	19540.6	15862.3	11871.0	7722.7	5250.0	3634.6	1904.7
-2.5°	43182.4	36112.1	30083.0	23479.8	19364.6	15849.9	12038.5	8305.5	5580.5	3811.0	1958.3
-5°	42055.9	34938.2	28715.0	22576.7	18408.3	14988.0	11529.2	8329.1	5657.2	3833.1	1961.2
-7.5°	39262.0	32782.6	26768.8	21191.6	17060.9	13696.7	10571.6	7763.2	5310.3	3495.9	1802.7
-10°	35247.7	29876.8	24165.8	19251.0	15427.9	12249.8	9569.3	7079.3	4864.0	3092.5	1606.7
-12.5°	31152.0	26239.6	21260.7	16873.6	13532.0	10598.7	8423.5	6286.8	4318.5	2634.4	1378.7
-15°	26457.8	21915.1	18191.0	14726.4	11519.9	8971.2	7220.7	5502.3	3839.5	2175.4	1123.3
-17.5°	22919.9	18492.3	15471.0	12829.2	9947.5	7608.7	6257.9	4908.9	3374.6	1833.1	902.5
-20°	20289.6	16868.1	13822.6	11201.9	8795.9	6906.6	5638.6	4348.2	2829.9	1539.0	854.4





REPORT NUMBER: P731322 (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°	18130.0	15498.0	12700.0	9910.5	7905.4	6447.7	5144.4	3767.1	2200.9	1170.1	793.8
-25°	15920.6	13982.8	11509.8	9161.2	7254.0	5869.1	4502.4	2983.9	1720.6	939.0	729.0
-27.5°	13787.8	12085.0	10326.1	8324.1	6771.8	5154.8	3609.5	2158.8	1192.9	854.0	705.5
-30°	11809.7	10385.5	9000.6	7626.0	6039.8	4360.5	2575.7	1542.8	974.5	777.1	681.1
-32.5°	10255.3	9161.6	8002.2	6657.1	5038.1	3222.1	1884.7	1071.8	858.9	745.2	683.2
-35°	9243.1	8053.9	6823.0	5243.8	3595.2	2180.1	1202.6	950.9	802.2	720.0	692.7
-37.5°	7688.8	6519.6	4911.1	3397.6	2167.7	1298.3	1035.5	874.0	764.2	728.0	672.0
-40°	5323.4	4009.8	2875.1	1732.3	1296.0	1075.8	938.5	829.8	783.7	715.4	635.9
-42.5°	2918.8	1961.2	1417.1	1232.7	1067.2	978.3	896.1	851.2	780.0	682.7	581.0
-45°	1462.5	1301.1	1147.9	1072.4	991.0	945.8	917.6	833.0	733.6	623.9	517.7
-47.5°	1194.8	1125.8	1059.1	1020.3	985.0	941.1	858.8	769.7	655.6	550.0	462.4
-50°	1093.7	1065.2	1038.6	1001.9	926.0	849.0	761.3	667.6	567.2	479.4	401.9
-52.5°	1069.7	1009.8	949.2	886.5	809.6	724.9	640.1	562.0	479.6	407.4	341.3
-55°	939.4	873.0	808.2	739.9	670.7	602.4	531.6	462.6	399.1	336.4	281.5
-57.5°	771.9	710.4	655.0	600.6	547.8	489.0	429.7	372.2	321.6	270.8	222.1
-60°	601.0	547.9	510.1	469.6	426.5	378.5	332.9	288.9	246.6	208.4	169.4
-62.5°	454.0	414.1	381.9	349.4	315.2	278.8	243.4	212.6	181.7	150.2	124.6
-65°	323.9	293.6	266.2	243.2	219.5	195.1	168.8	147.0	127.7	107.2	86.7
-67.5°	214.3	193.1	173.8	157.3	144.5	130.8	115.1	98.5	85.9	75.3	63.9
-70°	134.1	122.6	112.1	101.6	93.0	85.4	77.0	68.0	59.0	51.0	42.9
-72.5°	82.1	76.5	70.9	65.4	59.4	54.2	48.8	42.8	36.5	29.9	24.8
-75°	48.4	44.7	40.9	37.4	33.7	29.6	26.8	24.2	21.7	19.2	16.7
-77.5°	26.2	24.3	22.7	21.4	19.9	18.2	16.4	14.8	13.8	12.8	11.8
-80°	15.2	14.8	14.2	13.6	13.0	12.5	11.9	11.1	10.2	9.4	8.7
-82.5°	10.3	9.8	9.3	9.0	8.7	8.4	8.0	7.6	7.1	6.7	6.3
-85°	6.1	5.8	5.5	5.4	5.4	5.4	5.5	5.4	5.3	5.3	5.2
-87.5°	3.5	3.5	3.5	3.8	4.0	4.3	4.5	4.5	4.4	4.4	4.3
-90°	1.8	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4





REPORT NUMBER: P731322 (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°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.7	3.0	3.2
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.7	3.0	3.2
82.5°	2.4	2.4	2.4	2.4	2.6	2.7	2.7	2.7	2.8	3.0	3.2
80°	2.9	2.7	2.5	2.4	2.7	3.0	3.1	3.2	3.1	3.2	3.3
77.5°	3.3	3.0	2.6	2.5	2.7	3.0	3.3	3.5	3.4	3.3	3.4
75°	3.5	3.4	3.2	2.9	2.9	3.0	3.3	3.5	3.5	3.5	3.5
72.5°	4.0	3.7	3.5	3.5	3.3	3.3	3.4	3.5	3.5	3.5	3.5
70°	4.6	4.0	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
67.5°	5.3	4.7	4.0	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5
65°	7.1	5.6	4.6	4.0	3.6	3.5	3.5	3.5	3.5	3.5	3.5
62.5°	9.5	6.5	5.3	4.5	3.9	3.6	3.5	3.5	3.5	3.5	3.5
60°	12.8	8.9	6.3	5.3	4.4	3.6	3.5	3.5	3.5	3.5	3.5
57.5°	15.0	11.1	8.4	6.5	5.3	4.1	3.6	3.6	3.5	3.5	3.5
55°	16.0	12.0	10.0	7.9	6.3	5.1	4.0	3.8	3.6	3.5	3.6
52.5°	15.0	12.6	11.0	8.9	7.1	6.0	4.9	4.0	3.8	3.5	3.6
50°	12.4	12.6	11.6	9.7	7.6	6.5	5.7	4.7	4.1	3.6	3.7
47.5°	11.1	12.2	12.0	10.5	8.3	7.0	6.2	5.3	4.5	3.9	3.7
45°	11.6	11.8	12.2	11.1	9.2	7.7	6.6	5.8	4.9	4.3	3.8
42.5°	13.2	12.9	12.3	11.8	10.4	8.6	7.1	6.2	5.3	4.7	4.0
40°	17.4	15.3	13.3	13.1	11.8	9.4	7.8	6.6	5.7	5.0	4.3
37.5°	23.1	19.8	16.2	15.9	13.8	10.9	8.5	6.9	6.1	5.4	4.6
35°	40.6	26.2	25.3	22.4	17.5	12.6	9.1	7.3	6.5	5.7	4.9
32.5°	63.0	47.6	44.7	33.5	22.2	14.5	10.4	8.3	7.0	6.0	5.2
30°	105.3	100.9	73.0	47.6	29.8	18.9	12.4	9.4	7.5	6.3	5.5
27.5°	185.2	171.3	114.2	73.5	43.3	24.6	15.5	10.7	8.0	6.7	5.7
25°	276.6	250.2	183.2	108.1	58.7	39.2	19.1	12.2	8.8	7.1	6.0
22.5°	380.6	332.9	263.8	147.8	90.4	58.6	26.9	15.0	9.9	7.5	6.2
20°	484.3	420.3	349.0	198.0	130.5	85.6	40.9	18.0	11.1	7.9	6.4
17.5°	591.5	492.4	395.0	258.5	171.9	114.7	57.4	21.2	12.3	8.3	6.6
15°	678.3	540.0	435.2	310.9	210.9	145.5	75.8	24.5	13.6	8.7	6.8
12.5°	749.5	584.7	472.5	355.6	247.3	177.3	95.5	27.8	14.8	9.0	6.9
10°	813.9	626.1	506.8	393.3	281.4	209.5	115.8	31.0	16.2	9.4	7.0
7.5°	871.1	663.8	537.7	424.7	308.8	229.6	128.4	34.0	17.6	9.7	7.0
5°	915.7	693.9	557.4	433.9	311.6	234.7	137.8	36.7	19.0	10.1	7.1
2.5°	930.9	714.3	569.3	436.7	312.2	236.7	145.1	39.2	20.2	10.4	7.1
0°	936.4	729.8	577.4	435.7	310.6	236.2	150.0	41.3	21.3	10.6	7.1
-2.5°	944.1	733.0	586.6	454.0	326.4	244.6	158.0	51.5	27.8	14.2	8.4
-5°	942.8	731.4	592.0	468.3	339.5	250.9	163.7	61.1	33.9	17.7	9.6
-7.5°	910.6	713.0	587.3	476.8	349.4	255.1	167.2	69.9	39.5	20.8	10.8
-10°	864.8	682.8	569.8	471.8	356.4	260.5	169.3	77.7	44.5	23.6	11.8
-12.5°	811.0	649.6	553.4	466.1	361.0	266.7	173.2	85.1	48.9	25.9	12.6
-15°	749.4	613.8	539.8	460.4	363.4	270.8	174.4	91.4	53.1	28.1	13.2
-17.5°	686.4	576.1	530.1	455.9	363.5	272.8	172.9	96.0	56.4	30.1	14.2
-20°	665.6	563.7	524.0	453.1	361.5	272.6	168.5	98.8	58.5	31.6	15.3



REPORT NUMBER: P731322 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	648.0	575.1	523.5	448.3	358.0	270.4	161.2	99.4	59.4	32.3	16.2
-25°	629.1	587.4	519.9	435.9	352.6	260.2	156.5	97.9	59.1	32.2	16.6
-27.5°	632.6	594.4	510.8	418.2	336.2	246.5	154.2	97.2	58.0	31.3	16.6
-30°	646.6	580.3	489.5	395.9	316.5	223.5	149.0	94.9	56.9	30.8	16.2
-32.5°	649.1	559.4	459.9	371.7	290.4	200.0	138.6	90.8	54.7	30.3	16.1
-35°	620.1	525.3	424.4	343.6	262.0	185.0	126.5	84.7	51.3	29.2	15.9
-37.5°	587.6	483.3	390.4	312.2	233.0	167.4	115.9	77.0	46.7	27.5	15.3
-40°	537.4	440.8	356.1	280.1	209.1	147.3	103.7	69.4	43.3	25.1	14.3
-42.5°	483.5	399.9	321.3	248.0	184.4	131.8	90.3	60.8	39.3	23.1	12.9
-45°	435.3	357.0	284.4	218.2	158.3	114.6	79.7	52.0	34.7	21.1	11.7
-47.5°	384.5	313.5	247.0	185.6	137.2	97.2	68.1	46.3	29.7	18.7	10.8
-50°	333.8	268.8	208.5	157.2	113.9	83.1	57.0	40.0	26.1	15.7	9.6
-52.5°	281.2	223.8	172.5	128.5	95.4	67.8	49.3	33.5	22.2	13.5	8.3
-55°	228.1	181.3	137.6	104.3	77.0	57.1	41.1	28.4	17.9	11.7	6.9
-57.5°	180.0	139.3	109.1	82.5	62.5	47.0	33.8	23.0	15.0	9.7	6.7
-60°	134.3	108.4	83.6	65.5	50.2	37.5	27.0	18.0	12.4	7.9	6.5
-62.5°	100.6	80.0	65.5	50.8	38.9	28.9	20.3	14.6	9.5	7.4	6.2
-65°	73.7	60.9	48.5	38.1	28.5	20.9	16.0	11.0	8.4	6.9	5.9
-67.5°	52.5	43.3	34.5	25.8	20.3	15.9	11.5	9.1	7.6	6.3	5.6
-70°	34.9	27.3	22.6	18.7	14.7	11.2	9.5	8.0	6.7	6.0	5.3
-72.5°	21.9	18.8	15.7	12.6	10.9	9.4	8.0	6.9	6.3	5.6	5.0
-75°	14.1	12.7	11.4	10.1	8.7	7.6	6.9	6.4	5.8	5.3	4.9
-77.5°	10.8	9.7	8.6	7.9	7.3	6.7	6.3	6.0	5.5	5.1	4.8
-80°	8.1	7.5	7.0	6.6	6.2	5.9	5.7	5.5	5.2	4.9	4.8
-82.5°	6.0	5.8	5.7	5.6	5.4	5.3	5.2	5.0	4.8	4.7	4.6
-85°	5.1	5.0	5.0	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2
-87.5°	4.3	4.3	4.2	4.2	4.1	4.1	4.1	4.0	4.0	3.9	3.9
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.7	3.0	3.2



REPORT NUMBER: P731322 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
70°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
67.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
65°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
62.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
60°	3.5	3.5	3.5	3.5	3.5	3.5	3.5
57.5°	3.6	3.5	3.5	3.5	3.5	3.5	3.5
55°	3.6	3.5	3.5	3.5	3.5	3.5	3.5
52.5°	3.7	3.5	3.5	3.5	3.5	3.5	3.5
50°	3.8	3.6	3.5	3.5	3.5	3.5	3.5
47.5°	4.0	3.7	3.5	3.5	3.5	3.5	3.5
45°	4.0	3.9	3.5	3.5	3.5	3.5	3.5
42.5°	4.1	4.0	3.5	3.5	3.5	3.5	3.5
40°	4.1	4.2	3.6	3.5	3.5	3.5	3.5
37.5°	4.2	4.3	3.7	3.5	3.5	3.5	3.5
35°	4.3	4.4	3.8	3.6	3.5	3.5	3.5
32.5°	4.4	4.5	3.9	3.6	3.5	3.5	3.5
30°	4.6	4.5	4.0	3.7	3.5	3.5	3.5
27.5°	4.8	4.6	4.2	3.7	3.5	3.5	3.5
25°	5.0	4.7	4.3	3.8	3.5	3.5	3.5
22.5°	5.2	4.7	4.4	3.9	3.5	3.5	3.5
20°	5.4	4.7	4.5	4.0	3.5	3.5	3.5
17.5°	5.6	4.7	4.6	4.1	3.5	3.5	3.5
15°	5.6	4.7	4.6	4.2	3.5	3.5	3.5
12.5°	5.7	4.7	4.6	4.3	3.5	3.5	3.5
10°	5.8	4.7	4.7	4.3	3.5	3.5	3.5
7.5°	5.8	4.7	4.7	4.4	3.5	3.5	3.5
5°	5.9	4.7	4.7	4.5	3.5	3.5	3.5
2.5°	5.9	4.7	4.7	4.6	3.5	3.5	3.5
0°	5.9	4.7	4.7	4.7	3.5	3.5	3.5
-2.5°	6.2	4.8	4.7	4.7	3.6	3.5	3.5
-5°	6.5	5.0	4.7	4.7	3.6	3.5	3.5
-7.5°	6.8	5.1	4.7	4.7	3.7	3.5	3.5
-10°	7.0	5.2	4.7	4.7	3.7	3.5	3.5
-12.5°	7.2	5.3	4.7	4.6	3.7	3.5	3.5
-15°	7.4	5.4	4.7	4.6	3.8	3.5	3.5
-17.5°	7.5	5.4	4.7	4.6	3.8	3.5	3.5
-20°	7.8	5.4	4.7	4.6	3.9	3.5	3.5



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-5S-CV1

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	8.4	5.4	4.7	4.6	3.9	3.5	3.5
-25°	8.8	5.5	4.7	4.6	3.9	3.5	3.5
-27.5°	9.0	5.6	4.7	4.6	3.9	3.5	3.5
-30°	9.0	5.7	4.7	4.6	3.9	3.5	3.5
-32.5°	8.8	5.6	4.8	4.6	3.9	3.5	3.5
-35°	8.6	5.5	4.8	4.6	3.9	3.5	3.5
-37.5°	8.5	5.3	4.9	4.6	3.9	3.5	3.5
-40°	8.2	5.4	4.9	4.7	3.9	3.5	3.5
-42.5°	7.7	5.4	4.9	4.7	3.9	3.5	3.5
-45°	7.1	5.4	4.9	4.7	3.9	3.5	3.5
-47.5°	6.3	5.4	4.9	4.7	3.8	3.5	3.5
-50°	6.1	5.4	4.9	4.6	3.8	3.5	3.5
-52.5°	6.1	5.3	4.9	4.5	3.7	3.5	3.5
-55°	6.0	5.2	4.8	4.4	3.6	3.5	3.5
-57.5°	5.8	5.2	4.8	4.3	3.6	3.5	3.5
-60°	5.6	5.0	4.7	4.2	3.5	3.5	3.5
-62.5°	5.4	4.9	4.6	4.1	3.5	3.5	3.5
-65°	5.2	4.8	4.5	4.0	3.5	3.5	3.5
-67.5°	5.0	4.7	4.4	3.9	3.5	3.5	3.5
-70°	4.7	4.6	4.3	3.8	3.5	3.5	3.5
-72.5°	4.7	4.5	4.2	3.7	3.5	3.5	3.5
-75°	4.7	4.4	4.1	3.7	3.5	3.5	3.5
-77.5°	4.7	4.4	4.0	3.7	3.5	3.5	3.5
-80°	4.7	4.3	3.9	3.6	3.5	3.5	3.5
-82.5°	4.4	4.1	3.8	3.6	3.5	3.5	3.5
-85°	4.1	3.9	3.7	3.6	3.5	3.5	3.5
-87.5°	3.8	3.7	3.6	3.5	3.5	3.5	3.5
-90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5

(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

