

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: P701420 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-70-7F-HEG-S**

Issue Date: 8/15/2023

**Test Information**

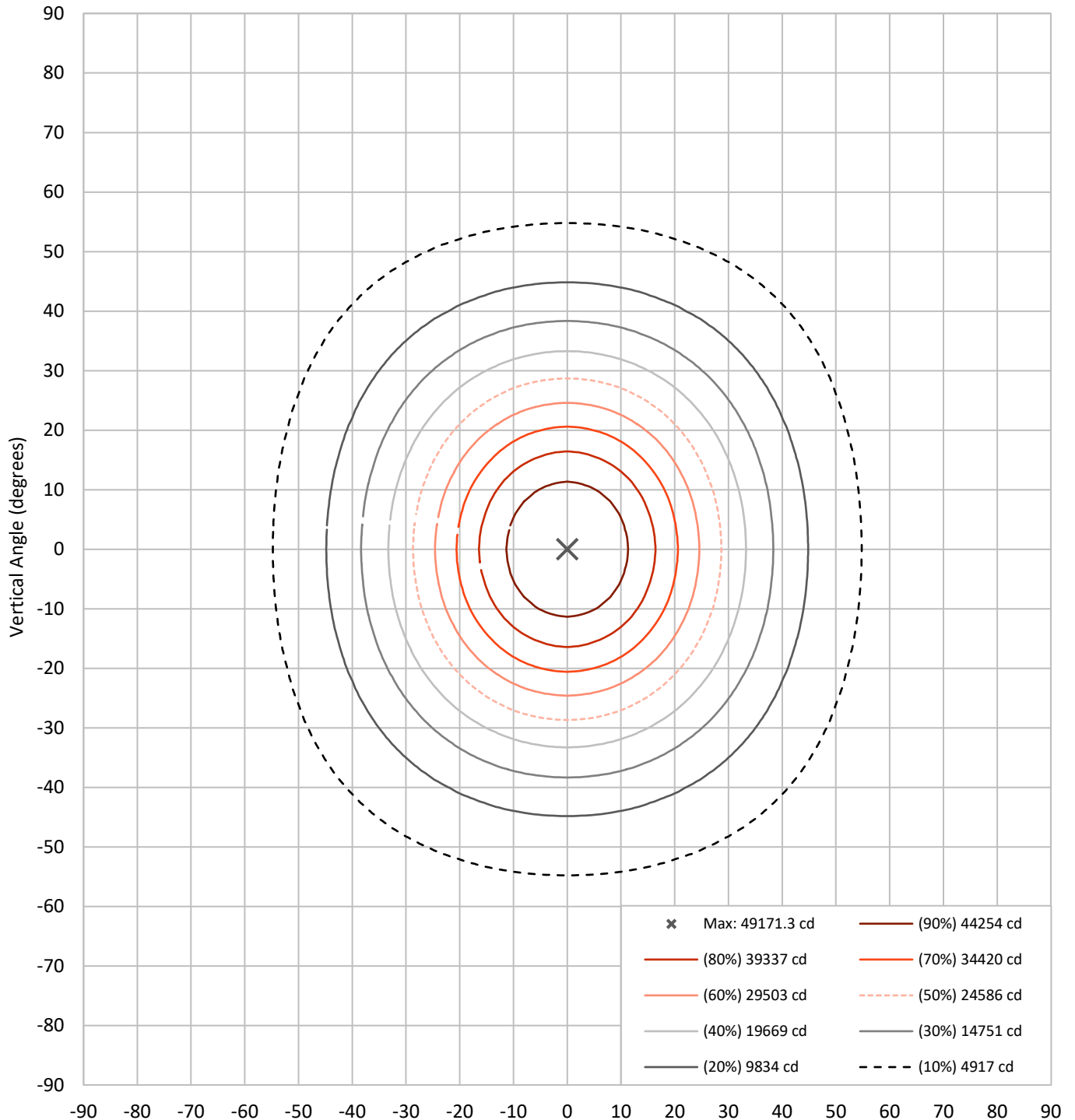
Test Method: LM-79-08  
Report Number: P701420 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/15/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320L-57-70-7F-HEG-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 7F BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	55480.1 lumens	Max Intensity:	49171.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	161.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	57.4°H x 57.4°V	Field Angle (10%):	109.4°H x 109.4°V
Beam Lumens:	27324 lumens	Field Lumens:	50332.4 lumens
Beam Efficiency:	49.2%	Field Efficiency:	90.7%
Input Watts (W):	344.2		
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





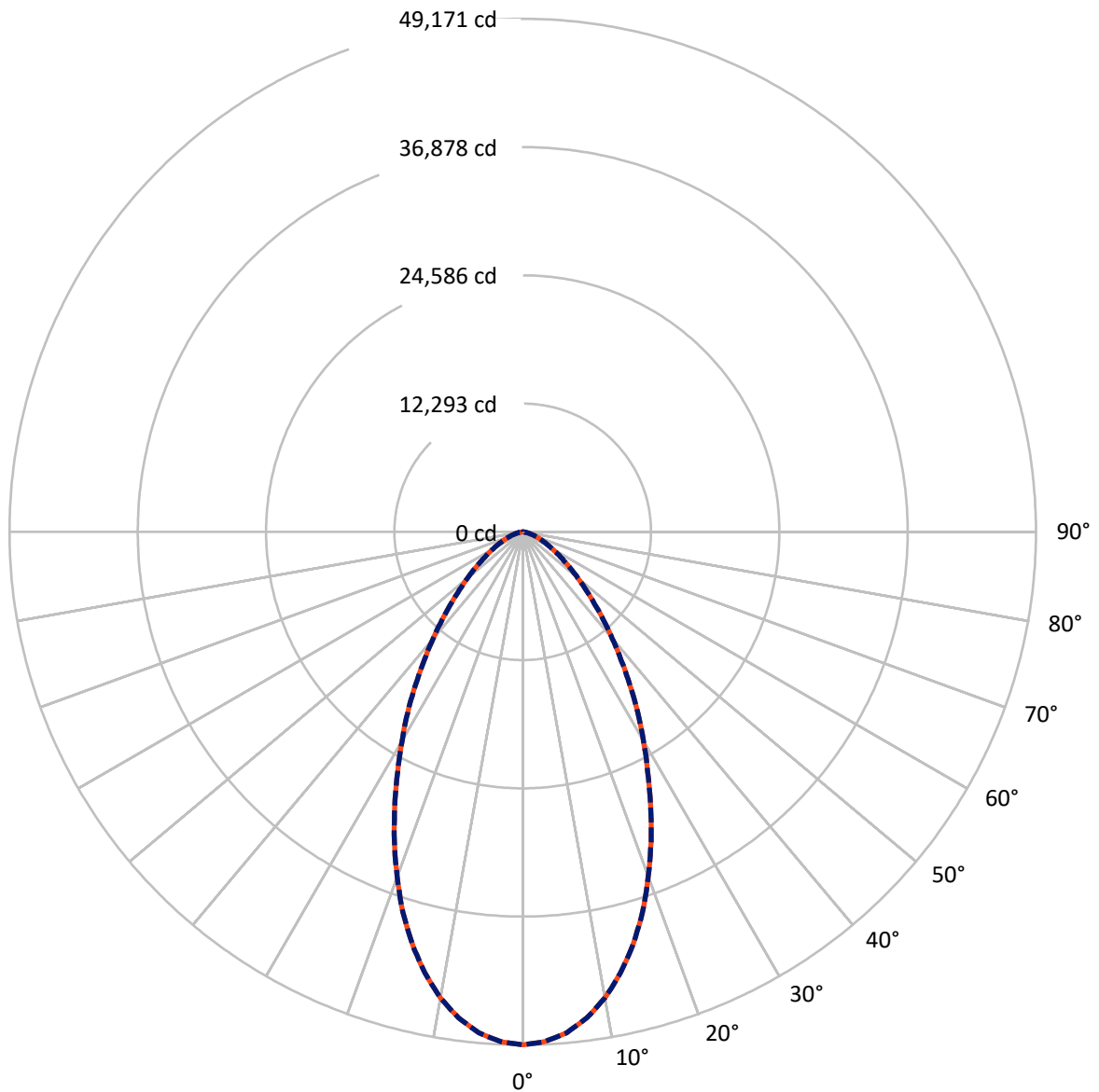
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### Lumen Table

90																				
80	0.6	7.5		25.4			46.6			55.8			46.6			25.4		7.5		0.6
70																				
60	3.6	4.9	12.3	23.2	36.5	50.1	61.5	67.8	67.8	61.5	50.1	36.5	23.2	12.3	4.9	3.6				
50		9.1	23.0	44.2	71.8	102.7	130.6	147.0	147.0	130.6	102.7	71.8	44.2	23.0	9.1					
40	8.4	14.1	36.0	72.5	125.7	191.1	253.9	293.0	293.0	253.9	191.1	125.7	72.5	36.0	14.1	8.4				
30		19.2	50.7	108.9	202.3	326.3	452.5	533.8	533.8	452.5	326.3	202.3	108.9	50.7	19.2					
20	12.8	23.9	65.8	150.0	295.7	500.5	714.8	857.5	857.5	714.8	500.5	295.7	150.0	65.8	23.9	12.8				
10		27.5	78.6	187.3	385.4	671.7	986.3	1198.3	1198.3	986.3	671.7	385.4	187.3	78.6	27.5					
0	14.4	29.5	85.8	209.8	441.2	782.1	1162.8	1410.8	1410.8	1162.8	782.1	441.2	209.8	85.8	29.5	14.4				
-10		29.5	85.8	209.8	441.2	782.1	1162.8	1410.8	1410.8	1162.8	782.1	441.2	209.8	85.8	29.5					
-20	12.8	27.5	78.6	187.3	385.4	671.7	986.3	1198.3	1198.3	986.3	671.7	385.4	187.3	78.6	27.5	12.8				
-30		23.9	65.8	150.0	295.7	500.5	714.8	857.5	857.5	714.8	500.5	295.7	150.0	65.8	23.9					
-40	8.4	19.2	50.7	108.9	202.3	326.3	452.5	533.8	533.8	452.5	326.3	202.3	108.9	50.7	19.2	8.4				
-50		14.1	36.0	72.5	125.7	191.1	253.9	293.0	293.0	253.9	191.1	125.7	72.5	36.0	14.1					
-60	3.6	9.1	23.0	44.2	71.8	102.7	130.6	147.0	147.0	130.6	102.7	71.8	44.2	23.0	9.1	3.6				
-70		4.9	12.3	23.2	36.5	50.1	61.5	67.8	67.8	61.5	50.1	36.5	23.2	12.3	4.9					
-80																				
-90	0.6	7.5		25.4			46.6			55.8			46.6			25.4		7.5		0.6

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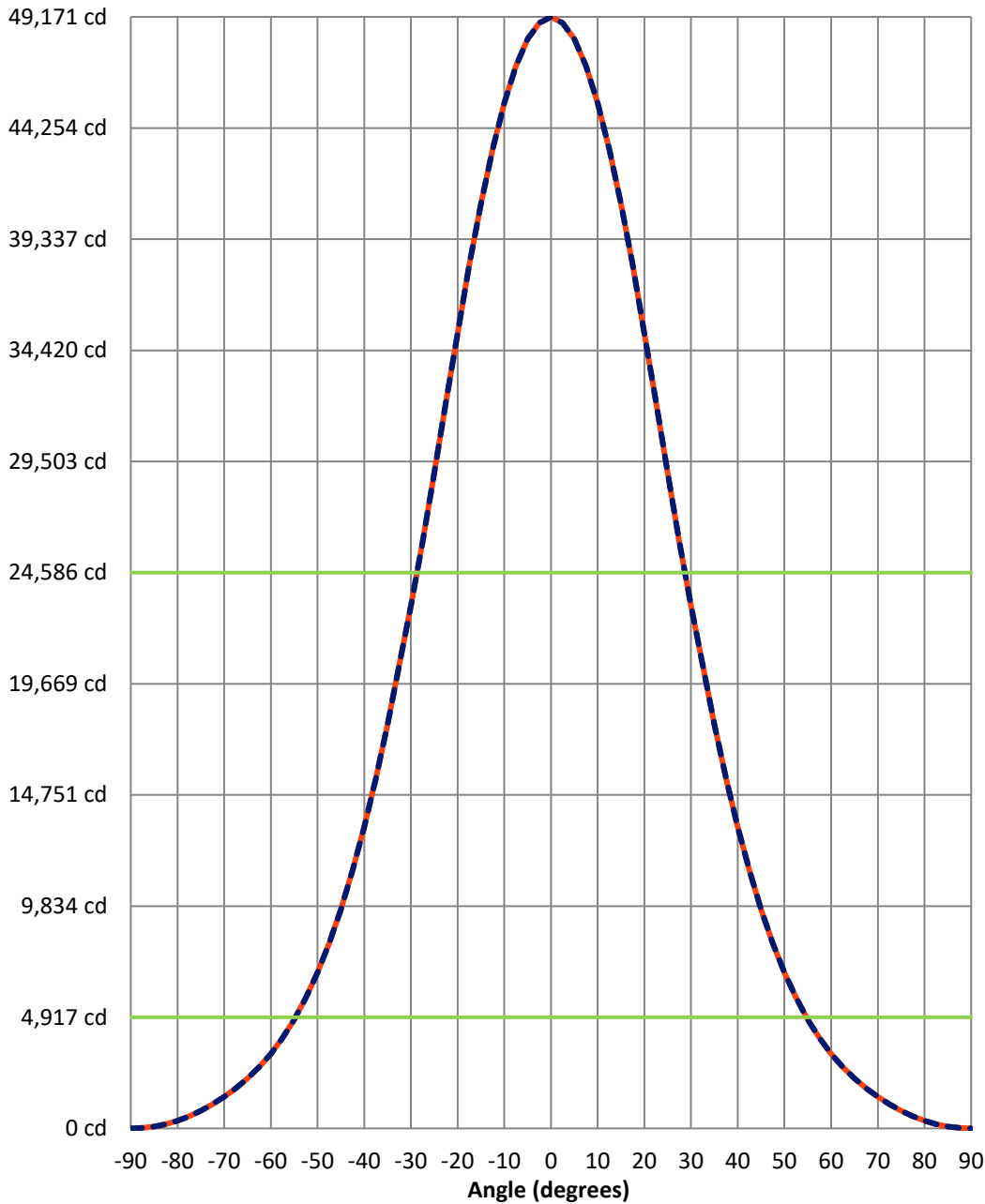
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 57.4°  
 V Angle: 57.4°  
 Lumens: 27324  
 Efficiency: 49.2%

**Field:**  
 H Angle: 109.4°  
 V Angle: 109.4°  
 Lumens: 50332.4  
 Efficiency: 90.7%

**Spill:**  
 Lumens: 5147.7  
 Efficiency: 9.3%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	1.1	2.2	3.3	4.3	5.4	6.5	7.5	8.5	9.6	10.6
85°	0.0	2.2	4.4	6.5	8.7	10.8	12.9	15.0	17.1	19.1	21.1
82.5°	0.0	3.3	6.5	9.8	13.0	16.2	19.4	22.5	26.3	33.3	40.1
80°	0.0	4.3	8.7	13.0	17.3	21.5	26.7	36.2	45.6	54.9	64.0
77.5°	0.0	5.4	10.8	16.2	21.5	29.2	41.2	53.1	64.8	76.3	92.3
75°	0.0	6.5	12.9	19.4	26.7	41.2	55.6	69.8	85.3	110.5	135.2
72.5°	0.0	7.5	15.0	22.5	36.2	53.1	69.8	89.8	119.6	148.9	177.7
70°	0.0	8.5	17.1	26.3	45.6	64.8	85.3	119.6	153.5	187.3	235.9
67.5°	0.0	9.6	19.1	33.3	54.9	76.3	110.5	148.9	187.3	242.7	297.3
65°	0.0	10.6	21.1	40.1	64.0	92.3	135.2	177.7	235.9	297.3	362.9
62.5°	0.0	11.5	23.1	46.8	72.9	112.6	159.5	215.7	283.7	354.1	439.2
60°	0.0	12.5	25.0	53.3	81.6	132.4	183.3	256.7	330.5	421.7	514.2
57.5°	0.0	13.4	29.2	59.7	96.7	151.8	216.4	296.8	386.7	487.8	598.5
55°	0.0	14.3	33.3	65.9	111.8	170.7	249.9	335.8	444.0	555.4	686.0
52.5°	0.0	15.2	37.3	71.9	126.4	190.4	282.4	383.4	499.8	632.0	771.1
50°	0.0	16.1	41.2	77.7	140.6	216.6	313.9	430.7	557.4	706.4	868.5
47.5°	0.0	16.9	45.0	84.5	154.3	241.9	345.6	476.3	621.2	778.4	964.4
45°	0.0	17.7	48.6	94.3	167.4	266.3	383.2	520.3	682.8	861.2	1057.0
42.5°	0.0	18.4	52.0	103.7	180.0	289.6	419.3	567.9	741.8	941.0	1156.4
40°	0.0	19.1	55.3	112.7	194.9	311.9	453.7	617.2	801.9	1017.4	1253.4
37.5°	0.0	19.8	58.4	121.3	211.8	333.1	486.4	664.0	866.3	1093.0	1345.9
35°	0.0	20.5	61.3	129.3	227.7	356.8	517.4	708.4	927.3	1171.5	1438.2
32.5°	0.0	21.1	64.1	136.9	242.8	381.0	548.5	750.1	984.8	1245.5	1532.2
30°	0.0	21.6	66.7	144.0	256.8	403.6	581.8	791.0	1038.6	1314.8	1620.4
27.5°	0.0	22.2	69.1	150.6	269.8	424.6	612.7	834.5	1091.2	1379.3	1702.4
25°	0.0	22.7	71.3	156.6	281.8	444.0	641.2	874.5	1143.6	1444.0	1778.7
22.5°	0.0	23.1	73.3	162.1	292.7	461.6	667.2	911.1	1191.5	1505.7	1859.3
20°	0.0	23.5	75.1	167.1	302.5	477.4	690.6	944.0	1234.6	1561.4	1932.1
17.5°	0.0	23.8	76.7	171.5	311.2	491.5	711.3	973.2	1273.0	1610.9	1996.9
15°	0.0	24.1	78.1	175.3	318.8	503.7	729.4	998.7	1306.4	1654.0	2053.4
12.5°	0.0	24.4	79.3	178.6	325.3	514.2	744.8	1020.4	1334.9	1690.8	2101.6
10°	0.0	24.6	80.3	181.2	330.5	522.7	757.4	1038.2	1358.2	1721.0	2141.2
7.5°	0.0	24.8	81.0	183.3	334.7	529.4	767.3	1052.1	1376.5	1744.6	2172.1
5°	0.0	24.9	81.6	184.8	337.6	534.2	774.3	1062.0	1389.5	1761.5	2194.2
2.5°	0.0	25.0	81.9	185.7	339.4	537.0	778.6	1068.0	1397.4	1771.6	2207.6
0°	0.0	25.0	82.0	186.0	340.0	538.0	780.0	1070.0	1400.0	1775.0	2212.0
-2.5°	0.0	25.0	81.9	185.7	339.4	537.0	778.6	1068.0	1397.4	1771.6	2207.6
-5°	0.0	24.9	81.6	184.8	337.6	534.2	774.3	1062.0	1389.5	1761.5	2194.2
-7.5°	0.0	24.8	81.0	183.3	334.7	529.4	767.3	1052.1	1376.5	1744.6	2172.1
-10°	0.0	24.6	80.3	181.2	330.5	522.7	757.4	1038.2	1358.2	1721.0	2141.2
-12.5°	0.0	24.4	79.3	178.6	325.3	514.2	744.8	1020.4	1334.9	1690.8	2101.6
-15°	0.0	24.1	78.1	175.3	318.8	503.7	729.4	998.7	1306.4	1654.0	2053.4
-17.5°	0.0	23.8	76.7	171.5	311.2	491.5	711.3	973.2	1273.0	1610.9	1996.9
-20°	0.0	23.5	75.1	167.1	302.5	477.4	690.6	944.0	1234.6	1561.4	1932.1



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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°	0.0	23.1	73.3	162.1	292.7	461.6	667.2	911.1	1191.5	1505.7	1859.3
-25°	0.0	22.7	71.3	156.6	281.8	444.0	641.2	874.5	1143.6	1444.0	1778.7
-27.5°	0.0	22.2	69.1	150.6	269.8	424.6	612.7	834.5	1091.2	1379.3	1702.4
-30°	0.0	21.6	66.7	144.0	256.8	403.6	581.8	791.0	1038.6	1314.8	1620.4
-32.5°	0.0	21.1	64.1	136.9	242.8	381.0	548.5	750.1	984.8	1245.5	1532.2
-35°	0.0	20.5	61.3	129.3	227.7	356.8	517.4	708.4	927.3	1171.5	1438.2
-37.5°	0.0	19.8	58.4	121.3	211.8	333.1	486.4	664.0	866.3	1093.0	1345.9
-40°	0.0	19.1	55.3	112.7	194.9	311.9	453.7	617.2	801.9	1017.4	1253.4
-42.5°	0.0	18.4	52.0	103.7	180.0	289.6	419.3	567.9	741.8	941.0	1156.4
-45°	0.0	17.7	48.6	94.3	167.4	266.3	383.2	520.3	682.8	861.2	1057.0
-47.5°	0.0	16.9	45.0	84.5	154.3	241.9	345.6	476.3	621.2	778.4	964.4
-50°	0.0	16.1	41.2	77.7	140.6	216.6	313.9	430.7	557.4	706.4	868.5
-52.5°	0.0	15.2	37.3	71.9	126.4	190.4	282.4	383.4	499.8	632.0	771.1
-55°	0.0	14.3	33.3	65.9	111.8	170.7	249.9	335.8	444.0	555.4	686.0
-57.5°	0.0	13.4	29.2	59.7	96.7	151.8	216.4	296.8	386.7	487.8	598.5
-60°	0.0	12.5	25.0	53.3	81.6	132.4	183.3	256.7	330.5	421.7	514.2
-62.5°	0.0	11.5	23.1	46.8	72.9	112.6	159.5	215.7	283.7	354.1	439.2
-65°	0.0	10.6	21.1	40.1	64.0	92.3	135.2	177.7	235.9	297.3	362.9
-67.5°	0.0	9.6	19.1	33.3	54.9	76.3	110.5	148.9	187.3	242.7	297.3
-70°	0.0	8.5	17.1	26.3	45.6	64.8	85.3	119.6	153.5	187.3	235.9
-72.5°	0.0	7.5	15.0	22.5	36.2	53.1	69.8	89.8	119.6	148.9	177.7
-75°	0.0	6.5	12.9	19.4	26.7	41.2	55.6	69.8	85.3	110.5	135.2
-77.5°	0.0	5.4	10.8	16.2	21.5	29.2	41.2	53.1	64.8	76.3	92.3
-80°	0.0	4.3	8.7	13.0	17.3	21.5	26.7	36.2	45.6	54.9	64.0
-82.5°	0.0	3.3	6.5	9.8	13.0	16.2	19.4	22.5	26.3	33.3	40.1
-85°	0.0	2.2	4.4	6.5	8.7	10.8	12.9	15.0	17.1	19.1	21.1
-87.5°	0.0	1.1	2.2	3.3	4.3	5.4	6.5	7.5	8.5	9.6	10.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	12.5	13.4	14.3	15.2	16.1	16.9	17.7	18.4	19.1	19.8
85°	23.1	25.0	29.2	33.3	37.3	41.2	45.0	48.6	52.0	55.3	58.4
82.5°	46.8	53.3	59.7	65.9	71.9	77.7	84.5	94.3	103.7	112.7	121.3
80°	72.9	81.6	96.7	111.8	126.4	140.6	154.3	167.4	180.0	194.9	211.8
77.5°	112.6	132.4	151.8	170.7	190.4	216.6	241.9	266.3	289.6	311.9	333.1
75°	159.5	183.3	216.4	249.9	282.4	313.9	345.6	383.2	419.3	453.7	486.4
72.5°	215.7	256.7	296.8	335.8	383.4	430.7	476.3	520.3	567.9	617.2	664.0
70°	283.7	330.5	386.7	444.0	499.8	557.4	621.2	682.8	741.8	801.9	866.3
67.5°	354.1	421.7	487.8	555.4	632.0	706.4	778.4	861.2	941.0	1017.4	1093.0
65°	439.2	514.2	598.5	686.0	771.1	868.5	964.4	1057.0	1156.4	1253.4	1345.9
62.5°	523.0	620.1	718.5	821.5	933.8	1042.8	1159.4	1275.5	1387.3	1507.3	1623.4
60°	620.1	729.4	847.7	973.2	1099.2	1234.6	1366.0	1505.7	1644.8	1778.7	1927.2
57.5°	718.5	847.7	986.4	1129.4	1280.2	1430.7	1592.6	1749.4	1921.3	2090.5	2258.7
55°	821.5	973.2	1129.4	1295.4	1465.5	1645.2	1827.3	2024.5	2215.4	2427.1	2629.8
52.5°	933.8	1099.2	1280.2	1465.5	1662.8	1868.6	2087.0	2312.3	2549.0	2786.0	3037.5
50°	1042.8	1234.6	1430.7	1645.2	1868.6	2107.9	2361.1	2622.9	2900.3	3181.5	3484.7
47.5°	1159.4	1366.0	1592.6	1827.3	2087.0	2361.1	2647.6	2957.8	3268.8	3627.5	3978.7
45°	1275.5	1505.7	1749.4	2024.5	2312.3	2622.9	2957.8	3298.0	3699.5	4100.0	4527.6
42.5°	1387.3	1644.8	1921.3	2215.4	2549.0	2900.3	3268.8	3699.5	4141.8	4612.5	5120.0
40°	1507.3	1778.7	2090.5	2427.1	2786.0	3181.5	3627.5	4100.0	4612.5	5172.3	5753.4
37.5°	1623.4	1927.2	2258.7	2629.8	3037.5	3484.7	3978.7	4527.6	5120.0	5753.4	6451.5
35°	1733.7	2068.4	2436.7	2838.9	3277.5	3798.4	4359.1	4964.1	5647.0	6389.2	7170.2
32.5°	1848.3	2201.8	2605.1	3049.5	3550.0	4109.8	4724.7	5436.0	6203.6	7021.3	7933.7
30°	1962.2	2345.1	2770.6	3247.8	3811.0	4431.5	5124.4	5898.1	6750.8	7705.8	8730.0
27.5°	2068.4	2480.2	2940.8	3462.3	4062.7	4733.1	5516.3	6379.6	7331.4	8375.9	9520.7
25°	2166.4	2605.1	3098.3	3671.1	4321.7	5055.3	5895.5	6828.9	7897.3	9070.1	10358.4
22.5°	2262.9	2719.9	3242.7	3862.7	4559.6	5366.5	6280.1	7304.2	8453.5	9719.2	11162.6
20°	2356.5	2838.9	3389.6	4040.9	4775.6	5649.2	6630.2	7747.7	9001.1	10405.4	11953.1
17.5°	2439.8	2944.9	3531.2	4217.9	5001.2	5919.5	6952.8	8146.0	9493.8	11024.5	12692.4
15°	2512.6	3037.5	3655.1	4372.9	5205.2	6173.4	7276.1	8540.2	9968.4	11588.5	13350.3
12.5°	2574.6	3116.5	3760.8	4505.2	5379.6	6390.7	7553.1	8884.4	10402.8	12110.0	13988.6
10°	2625.7	3181.5	3847.9	4614.2	5523.5	6570.1	7782.2	9169.5	10763.2	12543.2	14520.1
7.5°	2665.5	3232.3	3916.0	4699.6	5636.1	6710.8	7961.9	9393.4	11046.6	12884.5	14939.6
5°	2694.1	3268.8	3964.8	4760.8	5717.0	6811.8	8091.1	9554.5	11250.7	13130.7	15242.6
2.5°	2711.3	3290.7	3994.2	4797.7	5765.7	6872.7	8169.0	9651.6	11373.9	13279.4	15425.8
0°	2717.0	3298.0	4004.0	4810.0	5782.0	6893.0	8195.0	9684.1	11415.1	13329.1	15487.1
-2.5°	2711.3	3290.7	3994.2	4797.7	5765.7	6872.7	8169.0	9651.6	11373.9	13279.4	15425.8
-5°	2694.1	3268.8	3964.8	4760.8	5717.0	6811.8	8091.1	9554.5	11250.7	13130.7	15242.6
-7.5°	2665.5	3232.3	3916.0	4699.6	5636.1	6710.8	7961.9	9393.4	11046.6	12884.5	14939.6
-10°	2625.7	3181.5	3847.9	4614.2	5523.5	6570.1	7782.2	9169.5	10763.2	12543.2	14520.1
-12.5°	2574.6	3116.5	3760.8	4505.2	5379.6	6390.7	7553.1	8884.4	10402.8	12110.0	13988.6
-15°	2512.6	3037.5	3655.1	4372.9	5205.2	6173.4	7276.1	8540.2	9968.4	11588.5	13350.3
-17.5°	2439.8	2944.9	3531.2	4217.9	5001.2	5919.5	6952.8	8146.0	9493.8	11024.5	12692.4
-20°	2356.5	2838.9	3389.6	4040.9	4775.6	5649.2	6630.2	7747.7	9001.1	10405.4	11953.1



REPORT NUMBER: P701420 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-HEG-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2262.9	2719.9	3242.7	3862.7	4559.6	5366.5	6280.1	7304.2	8453.5	9719.2	11162.6
-25°	2166.4	2605.1	3098.3	3671.1	4321.7	5055.3	5895.5	6828.9	7897.3	9070.1	10358.4
-27.5°	2068.4	2480.2	2940.8	3462.3	4062.7	4733.1	5516.3	6379.6	7331.4	8375.9	9520.7
-30°	1962.2	2345.1	2770.6	3247.8	3811.0	4431.5	5124.4	5898.1	6750.8	7705.8	8730.0
-32.5°	1848.3	2201.8	2605.1	3049.5	3550.0	4109.8	4724.7	5436.0	6203.6	7021.3	7933.7
-35°	1733.7	2068.4	2436.7	2838.9	3277.5	3798.4	4359.1	4964.1	5647.0	6389.2	7170.2
-37.5°	1623.4	1927.2	2258.7	2629.8	3037.5	3484.7	3978.7	4527.6	5120.0	5753.4	6451.5
-40°	1507.3	1778.7	2090.5	2427.1	2786.0	3181.5	3627.5	4100.0	4612.5	5172.3	5753.4
-42.5°	1387.3	1644.8	1921.3	2215.4	2549.0	2900.3	3268.8	3699.5	4141.8	4612.5	5120.0
-45°	1275.5	1505.7	1749.4	2024.5	2312.3	2622.9	2957.8	3298.0	3699.5	4100.0	4527.6
-47.5°	1159.4	1366.0	1592.6	1827.3	2087.0	2361.1	2647.6	2957.8	3268.8	3627.5	3978.7
-50°	1042.8	1234.6	1430.7	1645.2	1868.6	2107.9	2361.1	2622.9	2900.3	3181.5	3484.7
-52.5°	933.8	1099.2	1280.2	1465.5	1662.8	1868.6	2087.0	2312.3	2549.0	2786.0	3037.5
-55°	821.5	973.2	1129.4	1295.4	1465.5	1645.2	1827.3	2024.5	2215.4	2427.1	2629.8
-57.5°	718.5	847.7	986.4	1129.4	1280.2	1430.7	1592.6	1749.4	1921.3	2090.5	2258.7
-60°	620.1	729.4	847.7	973.2	1099.2	1234.6	1366.0	1505.7	1644.8	1778.7	1927.2
-62.5°	523.0	620.1	718.5	821.5	933.8	1042.8	1159.4	1275.5	1387.3	1507.3	1623.4
-65°	439.2	514.2	598.5	686.0	771.1	868.5	964.4	1057.0	1156.4	1253.4	1345.9
-67.5°	354.1	421.7	487.8	555.4	632.0	706.4	778.4	861.2	941.0	1017.4	1093.0
-70°	283.7	330.5	386.7	444.0	499.8	557.4	621.2	682.8	741.8	801.9	866.3
-72.5°	215.7	256.7	296.8	335.8	383.4	430.7	476.3	520.3	567.9	617.2	664.0
-75°	159.5	183.3	216.4	249.9	282.4	313.9	345.6	383.2	419.3	453.7	486.4
-77.5°	112.6	132.4	151.8	170.7	190.4	216.6	241.9	266.3	289.6	311.9	333.1
-80°	72.9	81.6	96.7	111.8	126.4	140.6	154.3	167.4	180.0	194.9	211.8
-82.5°	46.8	53.3	59.7	65.9	71.9	77.7	84.5	94.3	103.7	112.7	121.3
-85°	23.1	25.0	29.2	33.3	37.3	41.2	45.0	48.6	52.0	55.3	58.4
-87.5°	11.5	12.5	13.4	14.3	15.2	16.1	16.9	17.7	18.4	19.1	19.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701420 (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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.5	21.1	21.6	22.2	22.7	23.1	23.5	23.8	24.1	24.4	24.6
85°	61.3	64.1	66.7	69.1	71.3	73.3	75.1	76.7	78.1	79.3	80.3
82.5°	129.3	136.9	144.0	150.6	156.6	162.1	167.1	171.5	175.3	178.6	181.2
80°	227.7	242.8	256.8	269.8	281.8	292.7	302.5	311.2	318.8	325.3	330.5
77.5°	356.8	381.0	403.6	424.6	444.0	461.6	477.4	491.5	503.7	514.2	522.7
75°	517.4	548.5	581.8	612.7	641.2	667.2	690.6	711.3	729.4	744.8	757.4
72.5°	708.4	750.1	791.0	834.5	874.5	911.1	944.0	973.2	998.7	1020.4	1038.2
70°	927.3	984.8	1038.6	1091.2	1143.6	1191.5	1234.6	1273.0	1306.4	1334.9	1358.2
67.5°	1171.5	1245.5	1314.8	1379.3	1444.0	1505.7	1561.4	1610.9	1654.0	1690.8	1721.0
65°	1438.2	1532.2	1620.4	1702.4	1778.7	1859.3	1932.1	1996.9	2053.4	2101.6	2141.2
62.5°	1733.7	1848.3	1962.2	2068.4	2166.4	2262.9	2356.5	2439.8	2512.6	2574.6	2625.7
60°	2068.4	2201.8	2345.1	2480.2	2605.1	2719.9	2838.9	2944.9	3037.5	3116.5	3181.5
57.5°	2436.7	2605.1	2770.6	2940.8	3098.3	3242.7	3389.6	3531.2	3655.1	3760.8	3847.9
55°	2838.9	3049.5	3247.8	3462.3	3671.1	3862.7	4040.9	4217.9	4372.9	4505.2	4614.2
52.5°	3277.5	3550.0	3811.0	4062.7	4321.7	4559.6	4775.6	5001.2	5205.2	5379.6	5523.5
50°	3798.4	4109.8	4431.5	4733.1	5055.3	5366.5	5649.2	5919.5	6173.4	6390.7	6570.1
47.5°	4359.1	4724.7	5124.4	5516.3	5895.5	6280.1	6630.2	6952.8	7276.1	7553.1	7782.2
45°	4964.1	5436.0	5898.1	6379.6	6828.9	7304.2	7747.7	8146.0	8540.2	8884.4	9169.5
42.5°	5647.0	6203.6	6750.8	7331.4	7897.3	8453.5	9001.1	9493.8	9968.4	10402.8	10763.2
40°	6389.2	7021.3	7705.8	8375.9	9070.1	9719.2	10405.4	11024.5	11588.5	12110.0	12543.2
37.5°	7170.2	7933.7	8730.0	9520.7	10358.4	11162.6	11953.1	12692.4	13350.3	13988.6	14520.1
35°	8010.2	8909.0	9813.3	10793.2	11749.4	12703.4	13615.3	14515.3	15315.8	16063.1	16701.8
32.5°	8909.0	9920.6	11013.4	12123.9	13215.2	14353.4	15420.2	16485.4	17442.5	18316.9	19086.5
30°	9813.3	11013.4	12249.9	13493.3	14805.3	16096.6	17362.0	18587.9	19734.4	20734.1	21571.9
27.5°	10793.2	12123.9	13493.3	14957.4	16443.9	17903.8	19405.9	20785.8	22025.2	23112.3	24100.8
25°	11749.4	13215.2	14805.3	16443.9	18104.3	19822.8	21432.2	22917.9	24352.8	25632.5	26786.9
22.5°	12703.4	14353.4	16096.6	17903.8	19822.8	21650.8	23394.4	25122.4	26765.2	28287.5	29603.9
20°	13615.3	15420.2	17362.0	19405.9	21432.2	23394.4	25383.4	27361.2	29230.8	30940.7	32408.9
17.5°	14515.3	16485.4	18587.9	20785.8	22917.9	25122.4	27361.2	29557.6	31633.7	33473.5	35067.9
15°	15315.8	17442.5	19734.4	22025.2	24352.8	26765.2	29230.8	31633.7	33838.7	35851.6	37639.0
12.5°	16063.1	18316.9	20734.1	23112.3	25632.5	28287.5	30940.7	33473.5	35851.6	38073.1	39864.9
10°	16701.8	19086.5	21571.9	24100.8	26786.9	29603.9	32408.9	35067.9	37639.0	39864.9	41818.9
7.5°	17207.1	19697.0	22238.8	24891.2	27735.4	30681.7	33577.3	36387.0	39030.9	41364.7	43325.2
5°	17572.7	20139.7	22723.7	25467.9	28430.6	31476.3	34445.4	37377.6	40042.4	42447.0	44451.9
2.5°	17794.0	20408.2	23018.3	25819.1	28855.3	31963.8	34981.0	37993.8	40679.3	43092.3	45126.0
0°	17868.1	20498.1	23117.1	25937.1	28998.2	32128.2	35162.2	38203.2	40897.2	43305.2	45358.2
-2.5°	17794.0	20408.2	23018.3	25819.1	28855.3	31963.8	34981.0	37993.8	40679.3	43092.3	45126.0
-5°	17572.7	20139.7	22723.7	25467.9	28430.6	31476.3	34445.4	37377.6	40042.4	42447.0	44451.9
-7.5°	17207.1	19697.0	22238.8	24891.2	27735.4	30681.7	33577.3	36387.0	39030.9	41364.7	43325.2
-10°	16701.8	19086.5	21571.9	24100.8	26786.9	29603.9	32408.9	35067.9	37639.0	39864.9	41818.9
-12.5°	16063.1	18316.9	20734.1	23112.3	25632.5	28287.5	30940.7	33473.5	35851.6	38073.1	39864.9
-15°	15315.8	17442.5	19734.4	22025.2	24352.8	26765.2	29230.8	31633.7	33838.7	35851.6	37639.0
-17.5°	14515.3	16485.4	18587.9	20785.8	22917.9	25122.4	27361.2	29557.6	31633.7	33473.5	35067.9
-20°	13615.3	15420.2	17362.0	19405.9	21432.2	23394.4	25383.4	27361.2	29230.8	30940.7	32408.9



REPORT NUMBER: P701420 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-HEG-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	12703.4	14353.4	16096.6	17903.8	19822.8	21650.8	23394.4	25122.4	26765.2	28287.5	29603.9
-25°	11749.4	13215.2	14805.3	16443.9	18104.3	19822.8	21432.2	22917.9	24352.8	25632.5	26786.9
-27.5°	10793.2	12123.9	13493.3	14957.4	16443.9	17903.8	19405.9	20785.8	22025.2	23112.3	24100.8
-30°	9813.3	11013.4	12249.9	13493.3	14805.3	16096.6	17362.0	18587.9	19734.4	20734.1	21571.9
-32.5°	8909.0	9920.6	11013.4	12123.9	13215.2	14353.4	15420.2	16485.4	17442.5	18316.9	19086.5
-35°	8010.2	8909.0	9813.3	10793.2	11749.4	12703.4	13615.3	14515.3	15315.8	16063.1	16701.8
-37.5°	7170.2	7933.7	8730.0	9520.7	10358.4	11162.6	11953.1	12692.4	13350.3	13988.6	14520.1
-40°	6389.2	7021.3	7705.8	8375.9	9070.1	9719.2	10405.4	11024.5	11588.5	12110.0	12543.2
-42.5°	5647.0	6203.6	6750.8	7331.4	7897.3	8453.5	9001.1	9493.8	9968.4	10402.8	10763.2
-45°	4964.1	5436.0	5898.1	6379.6	6828.9	7304.2	7747.7	8146.0	8540.2	8884.4	9169.5
-47.5°	4359.1	4724.7	5124.4	5516.3	5895.5	6280.1	6630.2	6952.8	7276.1	7553.1	7782.2
-50°	3798.4	4109.8	4431.5	4733.1	5055.3	5366.5	5649.2	5919.5	6173.4	6390.7	6570.1
-52.5°	3277.5	3550.0	3811.0	4062.7	4321.7	4559.6	4775.6	5001.2	5205.2	5379.6	5523.5
-55°	2838.9	3049.5	3247.8	3462.3	3671.1	3862.7	4040.9	4217.9	4372.9	4505.2	4614.2
-57.5°	2436.7	2605.1	2770.6	2940.8	3098.3	3242.7	3389.6	3531.2	3655.1	3760.8	3847.9
-60°	2068.4	2201.8	2345.1	2480.2	2605.1	2719.9	2838.9	2944.9	3037.5	3116.5	3181.5
-62.5°	1733.7	1848.3	1962.2	2068.4	2166.4	2262.9	2356.5	2439.8	2512.6	2574.6	2625.7
-65°	1438.2	1532.2	1620.4	1702.4	1778.7	1859.3	1932.1	1996.9	2053.4	2101.6	2141.2
-67.5°	1171.5	1245.5	1314.8	1379.3	1444.0	1505.7	1561.4	1610.9	1654.0	1690.8	1721.0
-70°	927.3	984.8	1038.6	1091.2	1143.6	1191.5	1234.6	1273.0	1306.4	1334.9	1358.2
-72.5°	708.4	750.1	791.0	834.5	874.5	911.1	944.0	973.2	998.7	1020.4	1038.2
-75°	517.4	548.5	581.8	612.7	641.2	667.2	690.6	711.3	729.4	744.8	757.4
-77.5°	356.8	381.0	403.6	424.6	444.0	461.6	477.4	491.5	503.7	514.2	522.7
-80°	227.7	242.8	256.8	269.8	281.8	292.7	302.5	311.2	318.8	325.3	330.5
-82.5°	129.3	136.9	144.0	150.6	156.6	162.1	167.1	171.5	175.3	178.6	181.2
-85°	61.3	64.1	66.7	69.1	71.3	73.3	75.1	76.7	78.1	79.3	80.3
-87.5°	20.5	21.1	21.6	22.2	22.7	23.1	23.5	23.8	24.1	24.4	24.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701420 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-HEG-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.8	24.9	25.0	25.0	25.0	24.9	24.8	24.6	24.4	24.1	23.8
85°	81.0	81.6	81.9	82.0	81.9	81.6	81.0	80.3	79.3	78.1	76.7
82.5°	183.3	184.8	185.7	186.0	185.7	184.8	183.3	181.2	178.6	175.3	171.5
80°	334.7	337.6	339.4	340.0	339.4	337.6	334.7	330.5	325.3	318.8	311.2
77.5°	529.4	534.2	537.0	538.0	537.0	534.2	529.4	522.7	514.2	503.7	491.5
75°	767.3	774.3	778.6	780.0	778.6	774.3	767.3	757.4	744.8	729.4	711.3
72.5°	1052.1	1062.0	1068.0	1070.0	1068.0	1062.0	1052.1	1038.2	1020.4	998.7	973.2
70°	1376.5	1389.5	1397.4	1400.0	1397.4	1389.5	1376.5	1358.2	1334.9	1306.4	1273.0
67.5°	1744.6	1761.5	1771.6	1775.0	1771.6	1761.5	1744.6	1721.0	1690.8	1654.0	1610.9
65°	2172.1	2194.2	2207.6	2212.0	2207.6	2194.2	2172.1	2141.2	2101.6	2053.4	1996.9
62.5°	2665.5	2694.1	2711.3	2717.0	2711.3	2694.1	2665.5	2625.7	2574.6	2512.6	2439.8
60°	3232.3	3268.8	3290.7	3298.0	3290.7	3268.8	3232.3	3181.5	3116.5	3037.5	2944.9
57.5°	3916.0	3964.8	3994.2	4004.0	3994.2	3964.8	3916.0	3847.9	3760.8	3655.1	3531.2
55°	4699.6	4760.8	4797.7	4810.0	4797.7	4760.8	4699.6	4614.2	4505.2	4372.9	4217.9
52.5°	5636.1	5717.0	5765.7	5782.0	5765.7	5717.0	5636.1	5523.5	5379.6	5205.2	5001.2
50°	6710.8	6811.8	6872.7	6893.0	6872.7	6811.8	6710.8	6570.1	6390.7	6173.4	5919.5
47.5°	7961.9	8091.1	8169.0	8195.0	8169.0	8091.1	7961.9	7782.2	7553.1	7276.1	6952.8
45°	9393.4	9554.5	9651.6	9684.1	9651.6	9554.5	9393.4	9169.5	8884.4	8540.2	8146.0
42.5°	11046.6	11250.7	11373.9	11415.1	11373.9	11250.7	11046.6	10763.2	10402.8	9968.4	9493.8
40°	12884.5	13130.7	13279.4	13329.1	13279.4	13130.7	12884.5	12543.2	12110.0	11588.5	11024.5
37.5°	14939.6	15242.6	15425.8	15487.1	15425.8	15242.6	14939.6	14520.1	13988.6	13350.3	12692.4
35°	17207.1	17572.7	17794.0	17868.1	17794.0	17572.7	17207.1	16701.8	16063.1	15315.8	14515.3
32.5°	19697.0	20139.7	20408.2	20498.1	20408.2	20139.7	19697.0	19086.5	18316.9	17442.5	16485.4
30°	22238.8	22723.7	23018.3	23117.1	23018.3	22723.7	22238.8	21571.9	20734.1	19734.4	18587.9
27.5°	24891.2	25467.9	25819.1	25937.1	25819.1	25467.9	24891.2	24100.8	23112.3	22025.2	20785.8
25°	27735.4	28430.6	28855.3	28998.2	28855.3	28430.6	27735.4	26786.9	25632.5	24352.8	22917.9
22.5°	30681.7	31476.3	31963.8	32128.2	31963.8	31476.3	30681.7	29603.9	28287.5	26765.2	25122.4
20°	33577.3	34445.4	34981.0	35162.2	34981.0	34445.4	33577.3	32408.9	30940.7	29230.8	27361.2
17.5°	36387.0	37377.6	37993.8	38203.2	37993.8	37377.6	36387.0	35067.9	33473.5	31633.7	29557.6
15°	39030.9	40042.4	40679.3	40897.2	40679.3	40042.4	39030.9	37639.0	35851.6	33838.7	31633.7
12.5°	41364.7	42447.0	43092.3	43305.2	43092.3	42447.0	41364.7	39864.9	38073.1	35851.6	33473.5
10°	43325.2	44451.9	45126.0	45358.2	45126.0	44451.9	43325.2	41818.9	39864.9	37639.0	35067.9
7.5°	44907.5	46055.0	46768.2	46997.8	46768.2	46055.0	44907.5	43325.2	41364.7	39030.9	36387.0
5°	46055.0	47244.4	47934.8	48190.3	47934.8	47244.4	46055.0	44451.9	42447.0	40042.4	37377.6
2.5°	46768.2	47934.8	48653.7	48897.8	48653.7	47934.8	46768.2	45126.0	43092.3	40679.3	37993.8
0°	46997.8	48190.3	48897.8	49171.3	48897.8	48190.3	46997.8	45358.2	43305.2	40897.2	38203.2
-2.5°	46768.2	47934.8	48653.7	48897.8	48653.7	47934.8	46768.2	45126.0	43092.3	40679.3	37993.8
-5°	46055.0	47244.4	47934.8	48190.3	47934.8	47244.4	46055.0	44451.9	42447.0	40042.4	37377.6
-7.5°	44907.5	46055.0	46768.2	46997.8	46768.2	46055.0	44907.5	43325.2	41364.7	39030.9	36387.0
-10°	43325.2	44451.9	45126.0	45358.2	45126.0	44451.9	43325.2	41818.9	39864.9	37639.0	35067.9
-12.5°	41364.7	42447.0	43092.3	43305.2	43092.3	42447.0	41364.7	39864.9	38073.1	35851.6	33473.5
-15°	39030.9	40042.4	40679.3	40897.2	40679.3	40042.4	39030.9	37639.0	35851.6	33838.7	31633.7
-17.5°	36387.0	37377.6	37993.8	38203.2	37993.8	37377.6	36387.0	35067.9	33473.5	31633.7	29557.6
-20°	33577.3	34445.4	34981.0	35162.2	34981.0	34445.4	33577.3	32408.9	30940.7	29230.8	27361.2



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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°	30681.7	31476.3	31963.8	32128.2	31963.8	31476.3	30681.7	29603.9	28287.5	26765.2	25122.4
-25°	27735.4	28430.6	28855.3	28998.2	28855.3	28430.6	27735.4	26786.9	25632.5	24352.8	22917.9
-27.5°	24891.2	25467.9	25819.1	25937.1	25819.1	25467.9	24891.2	24100.8	23112.3	22025.2	20785.8
-30°	22238.8	22723.7	23018.3	23117.1	23018.3	22723.7	22238.8	21571.9	20734.1	19734.4	18587.9
-32.5°	19697.0	20139.7	20408.2	20498.1	20408.2	20139.7	19697.0	19086.5	18316.9	17442.5	16485.4
-35°	17207.1	17572.7	17794.0	17868.1	17794.0	17572.7	17207.1	16701.8	16063.1	15315.8	14515.3
-37.5°	14939.6	15242.6	15425.8	15487.1	15425.8	15242.6	14939.6	14520.1	13988.6	13350.3	12692.4
-40°	12884.5	13130.7	13279.4	13329.1	13279.4	13130.7	12884.5	12543.2	12110.0	11588.5	11024.5
-42.5°	11046.6	11250.7	11373.9	11415.1	11373.9	11250.7	11046.6	10763.2	10402.8	9968.4	9493.8
-45°	9393.4	9554.5	9651.6	9684.1	9651.6	9554.5	9393.4	9169.5	8884.4	8540.2	8146.0
-47.5°	7961.9	8091.1	8169.0	8195.0	8169.0	8091.1	7961.9	7782.2	7553.1	7276.1	6952.8
-50°	6710.8	6811.8	6872.7	6893.0	6872.7	6811.8	6710.8	6570.1	6390.7	6173.4	5919.5
-52.5°	5636.1	5717.0	5765.7	5782.0	5765.7	5717.0	5636.1	5523.5	5379.6	5205.2	5001.2
-55°	4699.6	4760.8	4797.7	4810.0	4797.7	4760.8	4699.6	4614.2	4505.2	4372.9	4217.9
-57.5°	3916.0	3964.8	3994.2	4004.0	3994.2	3964.8	3916.0	3847.9	3760.8	3655.1	3531.2
-60°	3232.3	3268.8	3290.7	3298.0	3290.7	3268.8	3232.3	3181.5	3116.5	3037.5	2944.9
-62.5°	2665.5	2694.1	2711.3	2717.0	2711.3	2694.1	2665.5	2625.7	2574.6	2512.6	2439.8
-65°	2172.1	2194.2	2207.6	2212.0	2207.6	2194.2	2172.1	2141.2	2101.6	2053.4	1996.9
-67.5°	1744.6	1761.5	1771.6	1775.0	1771.6	1761.5	1744.6	1721.0	1690.8	1654.0	1610.9
-70°	1376.5	1389.5	1397.4	1400.0	1397.4	1389.5	1376.5	1358.2	1334.9	1306.4	1273.0
-72.5°	1052.1	1062.0	1068.0	1070.0	1068.0	1062.0	1052.1	1038.2	1020.4	998.7	973.2
-75°	767.3	774.3	778.6	780.0	778.6	774.3	767.3	757.4	744.8	729.4	711.3
-77.5°	529.4	534.2	537.0	538.0	537.0	534.2	529.4	522.7	514.2	503.7	491.5
-80°	334.7	337.6	339.4	340.0	339.4	337.6	334.7	330.5	325.3	318.8	311.2
-82.5°	183.3	184.8	185.7	186.0	185.7	184.8	183.3	181.2	178.6	175.3	171.5
-85°	81.0	81.6	81.9	82.0	81.9	81.6	81.0	80.3	79.3	78.1	76.7
-87.5°	24.8	24.9	25.0	25.0	25.0	24.9	24.8	24.6	24.4	24.1	23.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.5	23.1	22.7	22.2	21.6	21.1	20.5	19.8	19.1	18.4	17.7
85°	75.1	73.3	71.3	69.1	66.7	64.1	61.3	58.4	55.3	52.0	48.6
82.5°	167.1	162.1	156.6	150.6	144.0	136.9	129.3	121.3	112.7	103.7	94.3
80°	302.5	292.7	281.8	269.8	256.8	242.8	227.7	211.8	194.9	180.0	167.4
77.5°	477.4	461.6	444.0	424.6	403.6	381.0	356.8	333.1	311.9	289.6	266.3
75°	690.6	667.2	641.2	612.7	581.8	548.5	517.4	486.4	453.7	419.3	383.2
72.5°	944.0	911.1	874.5	834.5	791.0	750.1	708.4	664.0	617.2	567.9	520.3
70°	1234.6	1191.5	1143.6	1091.2	1038.6	984.8	927.3	866.3	801.9	741.8	682.8
67.5°	1561.4	1505.7	1444.0	1379.3	1314.8	1245.5	1171.5	1093.0	1017.4	941.0	861.2
65°	1932.1	1859.3	1778.7	1702.4	1620.4	1532.2	1438.2	1345.9	1253.4	1156.4	1057.0
62.5°	2356.5	2262.9	2166.4	2068.4	1962.2	1848.3	1733.7	1623.4	1507.3	1387.3	1275.5
60°	2838.9	2719.9	2605.1	2480.2	2345.1	2201.8	2068.4	1927.2	1778.7	1644.8	1505.7
57.5°	3389.6	3242.7	3098.3	2940.8	2770.6	2605.1	2436.7	2258.7	2090.5	1921.3	1749.4
55°	4040.9	3862.7	3671.1	3462.3	3247.8	3049.5	2838.9	2629.8	2427.1	2215.4	2024.5
52.5°	4775.6	4559.6	4321.7	4062.7	3811.0	3550.0	3277.5	3037.5	2786.0	2549.0	2312.3
50°	5649.2	5366.5	5055.3	4733.1	4431.5	4109.8	3798.4	3484.7	3181.5	2900.3	2622.9
47.5°	6630.2	6280.1	5895.5	5516.3	5124.4	4724.7	4359.1	3978.7	3627.5	3268.8	2957.8
45°	7747.7	7304.2	6828.9	6379.6	5898.1	5436.0	4964.1	4527.6	4100.0	3699.5	3298.0
42.5°	9001.1	8453.5	7897.3	7331.4	6750.8	6203.6	5647.0	5120.0	4612.5	4141.8	3699.5
40°	10405.4	9719.2	9070.1	8375.9	7705.8	7021.3	6389.2	5753.4	5172.3	4612.5	4100.0
37.5°	11953.1	11162.6	10358.4	9520.7	8730.0	7933.7	7170.2	6451.5	5753.4	5120.0	4527.6
35°	13615.3	12703.4	11749.4	10793.2	9813.3	8909.0	8010.2	7170.2	6389.2	5647.0	4964.1
32.5°	15420.2	14353.4	13215.2	12123.9	11013.4	9920.6	8909.0	7933.7	7021.3	6203.6	5436.0
30°	17362.0	16096.6	14805.3	13493.3	12249.9	11013.4	9813.3	8730.0	7705.8	6750.8	5898.1
27.5°	19405.9	17903.8	16443.9	14957.4	13493.3	12123.9	10793.2	9520.7	8375.9	7331.4	6379.6
25°	21432.2	19822.8	18104.3	16443.9	14805.3	13215.2	11749.4	10358.4	9070.1	7897.3	6828.9
22.5°	23394.4	21650.8	19822.8	17903.8	16096.6	14353.4	12703.4	11162.6	9719.2	8453.5	7304.2
20°	25383.4	23394.4	21432.2	19405.9	17362.0	15420.2	13615.3	11953.1	10405.4	9001.1	7747.7
17.5°	27361.2	25122.4	22917.9	20785.8	18587.9	16485.4	14515.3	12692.4	11024.5	9493.8	8146.0
15°	29230.8	26765.2	24352.8	22025.2	19734.4	17442.5	15315.8	13350.3	11588.5	9968.4	8540.2
12.5°	30940.7	28287.5	25632.5	23112.3	20734.1	18316.9	16063.1	13988.6	12110.0	10402.8	8884.4
10°	32408.9	29603.9	26786.9	24100.8	21571.9	19086.5	16701.8	14520.1	12543.2	10763.2	9169.5
7.5°	33577.3	30681.7	27735.4	24891.2	22238.8	19697.0	17207.1	14939.6	12884.5	11046.6	9393.4
5°	34445.4	31476.3	28430.6	25467.9	22723.7	20139.7	17572.7	15242.6	13130.7	11250.7	9554.5
2.5°	34981.0	31963.8	28855.3	25819.1	23018.3	20408.2	17794.0	15425.8	13279.4	11373.9	9651.6
0°	35162.2	32128.2	28998.2	25937.1	23117.1	20498.1	17868.1	15487.1	13329.1	11415.1	9684.1
-2.5°	34981.0	31963.8	28855.3	25819.1	23018.3	20408.2	17794.0	15425.8	13279.4	11373.9	9651.6
-5°	34445.4	31476.3	28430.6	25467.9	22723.7	20139.7	17572.7	15242.6	13130.7	11250.7	9554.5
-7.5°	33577.3	30681.7	27735.4	24891.2	22238.8	19697.0	17207.1	14939.6	12884.5	11046.6	9393.4
-10°	32408.9	29603.9	26786.9	24100.8	21571.9	19086.5	16701.8	14520.1	12543.2	10763.2	9169.5
-12.5°	30940.7	28287.5	25632.5	23112.3	20734.1	18316.9	16063.1	13988.6	12110.0	10402.8	8884.4
-15°	29230.8	26765.2	24352.8	22025.2	19734.4	17442.5	15315.8	13350.3	11588.5	9968.4	8540.2
-17.5°	27361.2	25122.4	22917.9	20785.8	18587.9	16485.4	14515.3	12692.4	11024.5	9493.8	8146.0
-20°	25383.4	23394.4	21432.2	19405.9	17362.0	15420.2	13615.3	11953.1	10405.4	9001.1	7747.7



REPORT NUMBER: P701420 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-HEG-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	23394.4	21650.8	19822.8	17903.8	16096.6	14353.4	12703.4	11162.6	9719.2	8453.5	7304.2
-25°	21432.2	19822.8	18104.3	16443.9	14805.3	13215.2	11749.4	10358.4	9070.1	7897.3	6828.9
-27.5°	19405.9	17903.8	16443.9	14957.4	13493.3	12123.9	10793.2	9520.7	8375.9	7331.4	6379.6
-30°	17362.0	16096.6	14805.3	13493.3	12249.9	11013.4	9813.3	8730.0	7705.8	6750.8	5898.1
-32.5°	15420.2	14353.4	13215.2	12123.9	11013.4	9920.6	8909.0	7933.7	7021.3	6203.6	5436.0
-35°	13615.3	12703.4	11749.4	10793.2	9813.3	8909.0	8010.2	7170.2	6389.2	5647.0	4964.1
-37.5°	11953.1	11162.6	10358.4	9520.7	8730.0	7933.7	7170.2	6451.5	5753.4	5120.0	4527.6
-40°	10405.4	9719.2	9070.1	8375.9	7705.8	7021.3	6389.2	5753.4	5172.3	4612.5	4100.0
-42.5°	9001.1	8453.5	7897.3	7331.4	6750.8	6203.6	5647.0	5120.0	4612.5	4141.8	3699.5
-45°	7747.7	7304.2	6828.9	6379.6	5898.1	5436.0	4964.1	4527.6	4100.0	3699.5	3298.0
-47.5°	6630.2	6280.1	5895.5	5516.3	5124.4	4724.7	4359.1	3978.7	3627.5	3268.8	2957.8
-50°	5649.2	5366.5	5055.3	4733.1	4431.5	4109.8	3798.4	3484.7	3181.5	2900.3	2622.9
-52.5°	4775.6	4559.6	4321.7	4062.7	3811.0	3550.0	3277.5	3037.5	2786.0	2549.0	2312.3
-55°	4040.9	3862.7	3671.1	3462.3	3247.8	3049.5	2838.9	2629.8	2427.1	2215.4	2024.5
-57.5°	3389.6	3242.7	3098.3	2940.8	2770.6	2605.1	2436.7	2258.7	2090.5	1921.3	1749.4
-60°	2838.9	2719.9	2605.1	2480.2	2345.1	2201.8	2068.4	1927.2	1778.7	1644.8	1505.7
-62.5°	2356.5	2262.9	2166.4	2068.4	1962.2	1848.3	1733.7	1623.4	1507.3	1387.3	1275.5
-65°	1932.1	1859.3	1778.7	1702.4	1620.4	1532.2	1438.2	1345.9	1253.4	1156.4	1057.0
-67.5°	1561.4	1505.7	1444.0	1379.3	1314.8	1245.5	1171.5	1093.0	1017.4	941.0	861.2
-70°	1234.6	1191.5	1143.6	1091.2	1038.6	984.8	927.3	866.3	801.9	741.8	682.8
-72.5°	944.0	911.1	874.5	834.5	791.0	750.1	708.4	664.0	617.2	567.9	520.3
-75°	690.6	667.2	641.2	612.7	581.8	548.5	517.4	486.4	453.7	419.3	383.2
-77.5°	477.4	461.6	444.0	424.6	403.6	381.0	356.8	333.1	311.9	289.6	266.3
-80°	302.5	292.7	281.8	269.8	256.8	242.8	227.7	211.8	194.9	180.0	167.4
-82.5°	167.1	162.1	156.6	150.6	144.0	136.9	129.3	121.3	112.7	103.7	94.3
-85°	75.1	73.3	71.3	69.1	66.7	64.1	61.3	58.4	55.3	52.0	48.6
-87.5°	23.5	23.1	22.7	22.2	21.6	21.1	20.5	19.8	19.1	18.4	17.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P701420 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-70-7F-HEG-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.9	16.1	15.2	14.3	13.4	12.5	11.5	10.6	9.6	8.5	7.5
85°	45.0	41.2	37.3	33.3	29.2	25.0	23.1	21.1	19.1	17.1	15.0
82.5°	84.5	77.7	71.9	65.9	59.7	53.3	46.8	40.1	33.3	26.3	22.5
80°	154.3	140.6	126.4	111.8	96.7	81.6	72.9	64.0	54.9	45.6	36.2
77.5°	241.9	216.6	190.4	170.7	151.8	132.4	112.6	92.3	76.3	64.8	53.1
75°	345.6	313.9	282.4	249.9	216.4	183.3	159.5	135.2	110.5	85.3	69.8
72.5°	476.3	430.7	383.4	335.8	296.8	256.7	215.7	177.7	148.9	119.6	89.8
70°	621.2	557.4	499.8	444.0	386.7	330.5	283.7	235.9	187.3	153.5	119.6
67.5°	778.4	706.4	632.0	555.4	487.8	421.7	354.1	297.3	242.7	187.3	148.9
65°	964.4	868.5	771.1	686.0	598.5	514.2	439.2	362.9	297.3	235.9	177.7
62.5°	1159.4	1042.8	933.8	821.5	718.5	620.1	523.0	439.2	354.1	283.7	215.7
60°	1366.0	1234.6	1099.2	973.2	847.7	729.4	620.1	514.2	421.7	330.5	256.7
57.5°	1592.6	1430.7	1280.2	1129.4	986.4	847.7	718.5	598.5	487.8	386.7	296.8
55°	1827.3	1645.2	1465.5	1295.4	1129.4	973.2	821.5	686.0	555.4	444.0	335.8
52.5°	2087.0	1868.6	1662.8	1465.5	1280.2	1099.2	933.8	771.1	632.0	499.8	383.4
50°	2361.1	2107.9	1868.6	1645.2	1430.7	1234.6	1042.8	868.5	706.4	557.4	430.7
47.5°	2647.6	2361.1	2087.0	1827.3	1592.6	1366.0	1159.4	964.4	778.4	621.2	476.3
45°	2957.8	2622.9	2312.3	2024.5	1749.4	1505.7	1275.5	1057.0	861.2	682.8	520.3
42.5°	3268.8	2900.3	2549.0	2215.4	1921.3	1644.8	1387.3	1156.4	941.0	741.8	567.9
40°	3627.5	3181.5	2786.0	2427.1	2090.5	1778.7	1507.3	1253.4	1017.4	801.9	617.2
37.5°	3978.7	3484.7	3037.5	2629.8	2258.7	1927.2	1623.4	1345.9	1093.0	866.3	664.0
35°	4359.1	3798.4	3277.5	2838.9	2436.7	2068.4	1733.7	1438.2	1171.5	927.3	708.4
32.5°	4724.7	4109.8	3550.0	3049.5	2605.1	2201.8	1848.3	1532.2	1245.5	984.8	750.1
30°	5124.4	4431.5	3811.0	3247.8	2770.6	2345.1	1962.2	1620.4	1314.8	1038.6	791.0
27.5°	5516.3	4733.1	4062.7	3462.3	2940.8	2480.2	2068.4	1702.4	1379.3	1091.2	834.5
25°	5895.5	5055.3	4321.7	3671.1	3098.3	2605.1	2166.4	1778.7	1444.0	1143.6	874.5
22.5°	6280.1	5366.5	4559.6	3862.7	3242.7	2719.9	2262.9	1859.3	1505.7	1191.5	911.1
20°	6630.2	5649.2	4775.6	4040.9	3389.6	2838.9	2356.5	1932.1	1561.4	1234.6	944.0
17.5°	6952.8	5919.5	5001.2	4217.9	3531.2	2944.9	2439.8	1996.9	1610.9	1273.0	973.2
15°	7276.1	6173.4	5205.2	4372.9	3655.1	3037.5	2512.6	2053.4	1654.0	1306.4	998.7
12.5°	7553.1	6390.7	5379.6	4505.2	3760.8	3116.5	2574.6	2101.6	1690.8	1334.9	1020.4
10°	7782.2	6570.1	5523.5	4614.2	3847.9	3181.5	2625.7	2141.2	1721.0	1358.2	1038.2
7.5°	7961.9	6710.8	5636.1	4699.6	3916.0	3232.3	2665.5	2172.1	1744.6	1376.5	1052.1
5°	8091.1	6811.8	5717.0	4760.8	3964.8	3268.8	2694.1	2194.2	1761.5	1389.5	1062.0
2.5°	8169.0	6872.7	5765.7	4797.7	3994.2	3290.7	2711.3	2207.6	1771.6	1397.4	1068.0
0°	8195.0	6893.0	5782.0	4810.0	4004.0	3298.0	2717.0	2212.0	1775.0	1400.0	1070.0
-2.5°	8169.0	6872.7	5765.7	4797.7	3994.2	3290.7	2711.3	2207.6	1771.6	1397.4	1068.0
-5°	8091.1	6811.8	5717.0	4760.8	3964.8	3268.8	2694.1	2194.2	1761.5	1389.5	1062.0
-7.5°	7961.9	6710.8	5636.1	4699.6	3916.0	3232.3	2665.5	2172.1	1744.6	1376.5	1052.1
-10°	7782.2	6570.1	5523.5	4614.2	3847.9	3181.5	2625.7	2141.2	1721.0	1358.2	1038.2
-12.5°	7553.1	6390.7	5379.6	4505.2	3760.8	3116.5	2574.6	2101.6	1690.8	1334.9	1020.4
-15°	7276.1	6173.4	5205.2	4372.9	3655.1	3037.5	2512.6	2053.4	1654.0	1306.4	998.7
-17.5°	6952.8	5919.5	5001.2	4217.9	3531.2	2944.9	2439.8	1996.9	1610.9	1273.0	973.2
-20°	6630.2	5649.2	4775.6	4040.9	3389.6	2838.9	2356.5	1932.1	1561.4	1234.6	944.0



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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°	6280.1	5366.5	4559.6	3862.7	3242.7	2719.9	2262.9	1859.3	1505.7	1191.5	911.1
-25°	5895.5	5055.3	4321.7	3671.1	3098.3	2605.1	2166.4	1778.7	1444.0	1143.6	874.5
-27.5°	5516.3	4733.1	4062.7	3462.3	2940.8	2480.2	2068.4	1702.4	1379.3	1091.2	834.5
-30°	5124.4	4431.5	3811.0	3247.8	2770.6	2345.1	1962.2	1620.4	1314.8	1038.6	791.0
-32.5°	4724.7	4109.8	3550.0	3049.5	2605.1	2201.8	1848.3	1532.2	1245.5	984.8	750.1
-35°	4359.1	3798.4	3277.5	2838.9	2436.7	2068.4	1733.7	1438.2	1171.5	927.3	708.4
-37.5°	3978.7	3484.7	3037.5	2629.8	2258.7	1927.2	1623.4	1345.9	1093.0	866.3	664.0
-40°	3627.5	3181.5	2786.0	2427.1	2090.5	1778.7	1507.3	1253.4	1017.4	801.9	617.2
-42.5°	3268.8	2900.3	2549.0	2215.4	1921.3	1644.8	1387.3	1156.4	941.0	741.8	567.9
-45°	2957.8	2622.9	2312.3	2024.5	1749.4	1505.7	1275.5	1057.0	861.2	682.8	520.3
-47.5°	2647.6	2361.1	2087.0	1827.3	1592.6	1366.0	1159.4	964.4	778.4	621.2	476.3
-50°	2361.1	2107.9	1868.6	1645.2	1430.7	1234.6	1042.8	868.5	706.4	557.4	430.7
-52.5°	2087.0	1868.6	1662.8	1465.5	1280.2	1099.2	933.8	771.1	632.0	499.8	383.4
-55°	1827.3	1645.2	1465.5	1295.4	1129.4	973.2	821.5	686.0	555.4	444.0	335.8
-57.5°	1592.6	1430.7	1280.2	1129.4	986.4	847.7	718.5	598.5	487.8	386.7	296.8
-60°	1366.0	1234.6	1099.2	973.2	847.7	729.4	620.1	514.2	421.7	330.5	256.7
-62.5°	1159.4	1042.8	933.8	821.5	718.5	620.1	523.0	439.2	354.1	283.7	215.7
-65°	964.4	868.5	771.1	686.0	598.5	514.2	439.2	362.9	297.3	235.9	177.7
-67.5°	778.4	706.4	632.0	555.4	487.8	421.7	354.1	297.3	242.7	187.3	148.9
-70°	621.2	557.4	499.8	444.0	386.7	330.5	283.7	235.9	187.3	153.5	119.6
-72.5°	476.3	430.7	383.4	335.8	296.8	256.7	215.7	177.7	148.9	119.6	89.8
-75°	345.6	313.9	282.4	249.9	216.4	183.3	159.5	135.2	110.5	85.3	69.8
-77.5°	241.9	216.6	190.4	170.7	151.8	132.4	112.6	92.3	76.3	64.8	53.1
-80°	154.3	140.6	126.4	111.8	96.7	81.6	72.9	64.0	54.9	45.6	36.2
-82.5°	84.5	77.7	71.9	65.9	59.7	53.3	46.8	40.1	33.3	26.3	22.5
-85°	45.0	41.2	37.3	33.3	29.2	25.0	23.1	21.1	19.1	17.1	15.0
-87.5°	16.9	16.1	15.2	14.3	13.4	12.5	11.5	10.6	9.6	8.5	7.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	5.4	4.3	3.3	2.2	1.1	0.0
85°	12.9	10.8	8.7	6.5	4.4	2.2	0.0
82.5°	19.4	16.2	13.0	9.8	6.5	3.3	0.0
80°	26.7	21.5	17.3	13.0	8.7	4.3	0.0
77.5°	41.2	29.2	21.5	16.2	10.8	5.4	0.0
75°	55.6	41.2	26.7	19.4	12.9	6.5	0.0
72.5°	69.8	53.1	36.2	22.5	15.0	7.5	0.0
70°	85.3	64.8	45.6	26.3	17.1	8.5	0.0
67.5°	110.5	76.3	54.9	33.3	19.1	9.6	0.0
65°	135.2	92.3	64.0	40.1	21.1	10.6	0.0
62.5°	159.5	112.6	72.9	46.8	23.1	11.5	0.0
60°	183.3	132.4	81.6	53.3	25.0	12.5	0.0
57.5°	216.4	151.8	96.7	59.7	29.2	13.4	0.0
55°	249.9	170.7	111.8	65.9	33.3	14.3	0.0
52.5°	282.4	190.4	126.4	71.9	37.3	15.2	0.0
50°	313.9	216.6	140.6	77.7	41.2	16.1	0.0
47.5°	345.6	241.9	154.3	84.5	45.0	16.9	0.0
45°	383.2	266.3	167.4	94.3	48.6	17.7	0.0
42.5°	419.3	289.6	180.0	103.7	52.0	18.4	0.0
40°	453.7	311.9	194.9	112.7	55.3	19.1	0.0
37.5°	486.4	333.1	211.8	121.3	58.4	19.8	0.0
35°	517.4	356.8	227.7	129.3	61.3	20.5	0.0
32.5°	548.5	381.0	242.8	136.9	64.1	21.1	0.0
30°	581.8	403.6	256.8	144.0	66.7	21.6	0.0
27.5°	612.7	424.6	269.8	150.6	69.1	22.2	0.0
25°	641.2	444.0	281.8	156.6	71.3	22.7	0.0
22.5°	667.2	461.6	292.7	162.1	73.3	23.1	0.0
20°	690.6	477.4	302.5	167.1	75.1	23.5	0.0
17.5°	711.3	491.5	311.2	171.5	76.7	23.8	0.0
15°	729.4	503.7	318.8	175.3	78.1	24.1	0.0
12.5°	744.8	514.2	325.3	178.6	79.3	24.4	0.0
10°	757.4	522.7	330.5	181.2	80.3	24.6	0.0
7.5°	767.3	529.4	334.7	183.3	81.0	24.8	0.0
5°	774.3	534.2	337.6	184.8	81.6	24.9	0.0
2.5°	778.6	537.0	339.4	185.7	81.9	25.0	0.0
0°	780.0	538.0	340.0	186.0	82.0	25.0	0.0
-2.5°	778.6	537.0	339.4	185.7	81.9	25.0	0.0
-5°	774.3	534.2	337.6	184.8	81.6	24.9	0.0
-7.5°	767.3	529.4	334.7	183.3	81.0	24.8	0.0
-10°	757.4	522.7	330.5	181.2	80.3	24.6	0.0
-12.5°	744.8	514.2	325.3	178.6	79.3	24.4	0.0
-15°	729.4	503.7	318.8	175.3	78.1	24.1	0.0
-17.5°	711.3	491.5	311.2	171.5	76.7	23.8	0.0
-20°	690.6	477.4	302.5	167.1	75.1	23.5	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	667.2	461.6	292.7	162.1	73.3	23.1	0.0
-25°	641.2	444.0	281.8	156.6	71.3	22.7	0.0
-27.5°	612.7	424.6	269.8	150.6	69.1	22.2	0.0
-30°	581.8	403.6	256.8	144.0	66.7	21.6	0.0
-32.5°	548.5	381.0	242.8	136.9	64.1	21.1	0.0
-35°	517.4	356.8	227.7	129.3	61.3	20.5	0.0
-37.5°	486.4	333.1	211.8	121.3	58.4	19.8	0.0
-40°	453.7	311.9	194.9	112.7	55.3	19.1	0.0
-42.5°	419.3	289.6	180.0	103.7	52.0	18.4	0.0
-45°	383.2	266.3	167.4	94.3	48.6	17.7	0.0
-47.5°	345.6	241.9	154.3	84.5	45.0	16.9	0.0
-50°	313.9	216.6	140.6	77.7	41.2	16.1	0.0
-52.5°	282.4	190.4	126.4	71.9	37.3	15.2	0.0
-55°	249.9	170.7	111.8	65.9	33.3	14.3	0.0
-57.5°	216.4	151.8	96.7	59.7	29.2	13.4	0.0
-60°	183.3	132.4	81.6	53.3	25.0	12.5	0.0
-62.5°	159.5	112.6	72.9	46.8	23.1	11.5	0.0
-65°	135.2	92.3	64.0	40.1	21.1	10.6	0.0
-67.5°	110.5	76.3	54.9	33.3	19.1	9.6	0.0
-70°	85.3	64.8	45.6	26.3	17.1	8.5	0.0
-72.5°	69.8	53.1	36.2	22.5	15.0	7.5	0.0
-75°	55.6	41.2	26.7	19.4	12.9	6.5	0.0
-77.5°	41.2	29.2	21.5	16.2	10.8	5.4	0.0
-80°	26.7	21.5	17.3	13.0	8.7	4.3	0.0
-82.5°	19.4	16.2	13.0	9.8	6.5	3.3	0.0
-85°	12.9	10.8	8.7	6.5	4.4	2.2	0.0
-87.5°	6.5	5.4	4.3	3.3	2.2	1.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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

