

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: P731272 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-3S-HEG**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731272 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-40-70-3S-HEG  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

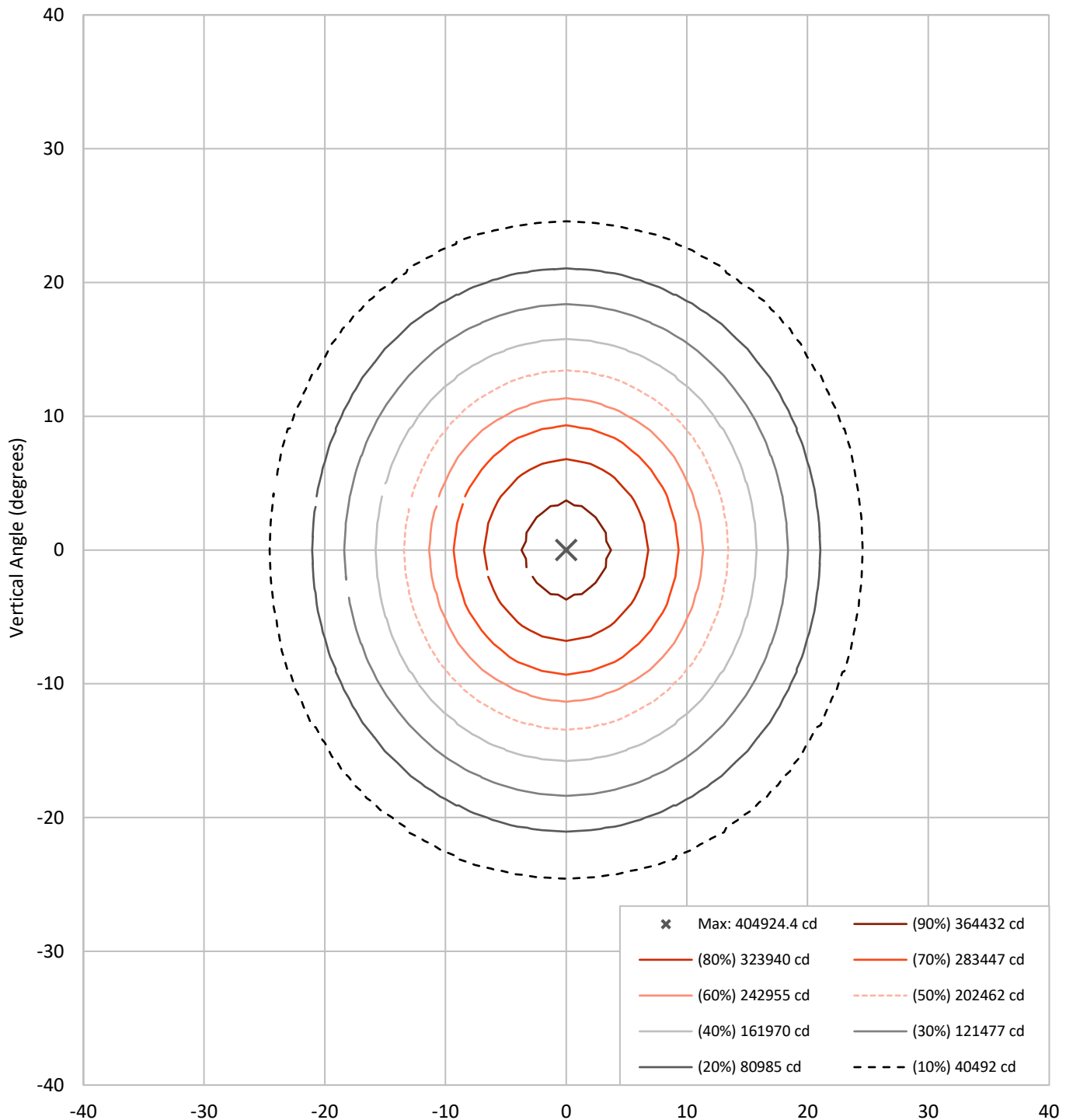
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	109364.7 lumens	Max Intensity:	404924.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	156.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	26.9°H x 26.9°V	Field Angle (10%):	48.9°H x 48.9°V
Beam Lumens:	47418.8 lumens	Field Lumens:	90783.4 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%

Input Watts (W): 697.2  
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





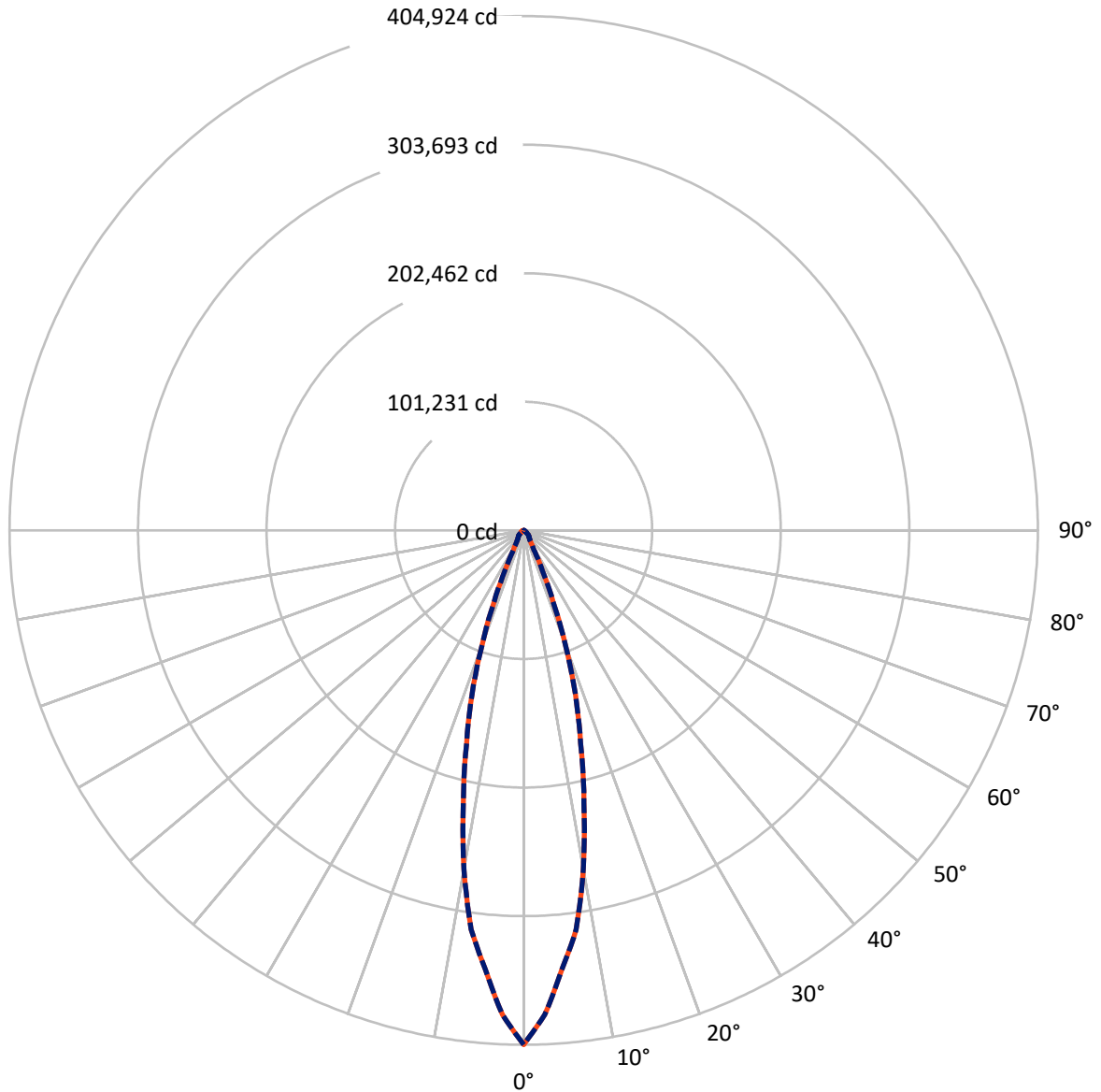
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### Lumen Table

90	0.1	1.0	3.8	9.9	13.2	9.9	3.8	1.0	0.1										
80	0.1	1.0	3.8	9.9	13.2	9.9	3.8	1.0	0.1										
70	0.4	0.6	2.4	7.3	14.3	21.7	27.8	31.1	31.1	27.8	21.7	14.3	7.3	2.4	0.6	0.4			
60		1.8	8.5	19.9	34.2	48.8	60.5	66.9	66.9	60.5	48.8	34.2	19.9	8.5	1.8				
50	1.3	4.5	16.3	34.6	57.3	90.2	129.1	151.5	151.5	129.1	90.2	57.3	34.6	16.3	4.5	1.3			
40		7.6	24.2	49.6	101.1	166.5	214.2	251.6	251.6	214.2	166.5	101.1	49.6	24.2	7.6				
30	2.9	10.4	31.2	71.0	150.7	238.6	551.7	1134.7	1134.7	551.7	238.6	150.7	71.0	31.2	10.4	2.9			
20		12.5	36.3	95.5	182.2	520.8	2413.7	4833.5	4833.5	2413.7	520.8	182.2	95.5	36.3	12.5				
10	3.7	13.6	38.9	108.6	208.0	1044.5	4701.2	9271.8	9271.8	4701.2	1044.5	208.0	108.6	38.9	13.6	3.7			
0		13.6	38.9	108.6	208.0	1044.5	4701.2	9271.8	9271.8	4701.2	1044.5	208.0	108.6	38.9	13.6				
-10	2.9	12.5	36.3	95.5	182.2	520.8	2413.7	4833.5	4833.5	2413.7	520.8	182.2	95.5	36.3	12.5	2.9			
-20		10.4	31.2	71.0	150.7	238.6	551.7	1134.7	1134.7	551.7	238.6	150.7	71.0	31.2	10.4				
-30	1.3	7.6	24.2	49.6	101.1	166.5	214.2	251.6	251.6	214.2	166.5	101.1	49.6	24.2	7.6	1.3			
-40		4.5	16.3	34.6	57.3	90.2	129.1	151.5	151.5	129.1	90.2	57.3	34.6	16.3	4.5				
-50	0.4	1.8	8.5	19.9	34.2	48.8	60.5	66.9	66.9	60.5	48.8	34.2	19.9	8.5	1.8	0.4			
-60		0.6	2.4	7.3	14.3	21.7	27.8	31.1	31.1	27.8	21.7	14.3	7.3	2.4	0.6				
-70	0.1	0.6	2.4	7.3	14.3	21.7	27.8	31.1	31.1	27.8	21.7	14.3	7.3	2.4	0.6	0.1			
-80		0.1	1.0	3.8	9.9	13.2	9.9	3.8	1.0	0.1									
-90	0.1	1.0	3.8	9.9	13.2	9.9	3.8	1.0	0.1										

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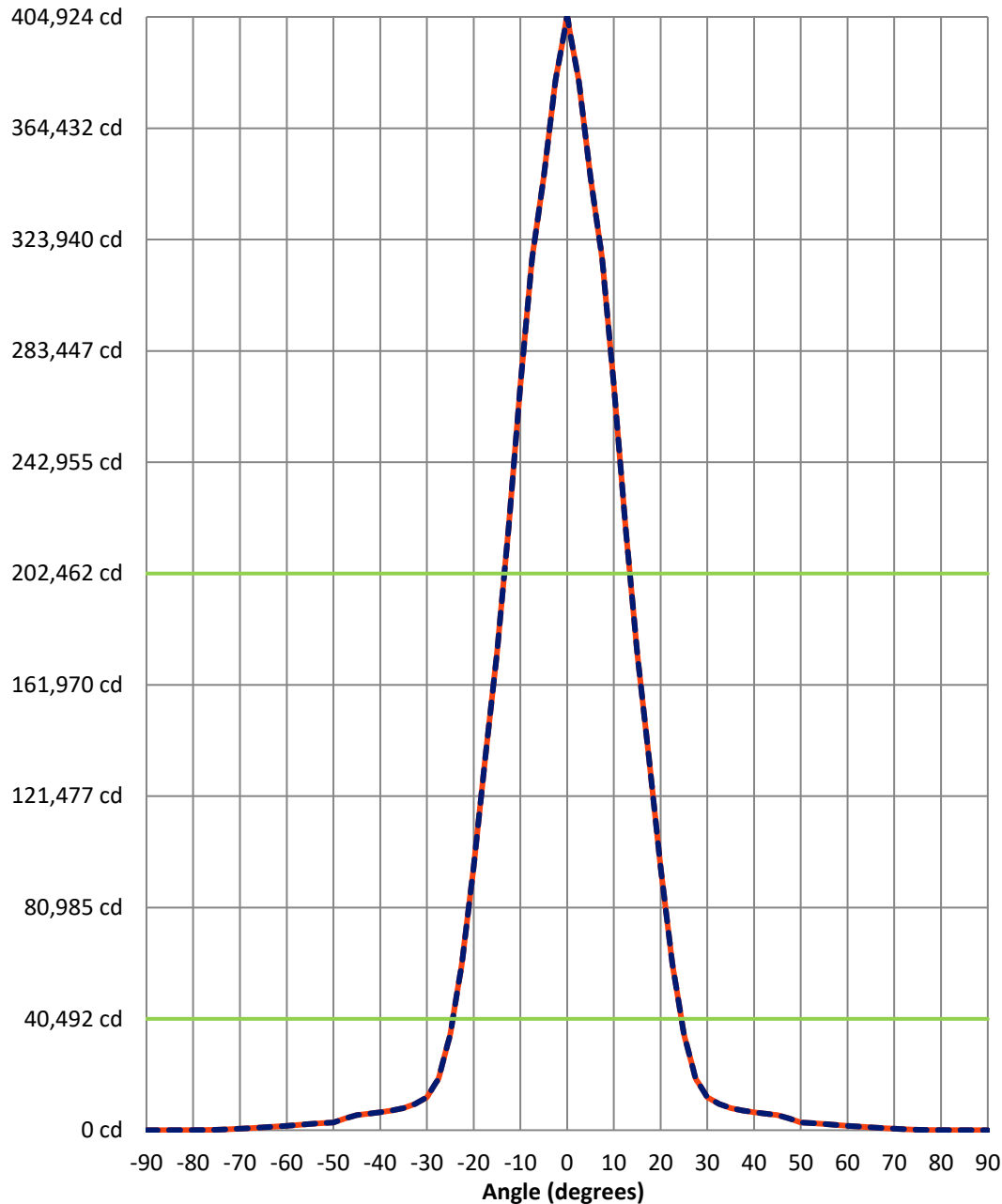
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 26.9°  
 V Angle: 26.9°  
 Lumens: 47418.8  
 Efficiency: 43.4%

**Field:**  
 H Angle: 48.9°  
 V Angle: 48.9°  
 Lumens: 90783.4  
 Efficiency: 83.0%

**Spill:**  
 Lumens: 18581.3  
 Efficiency: 17.0%

- 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	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
85°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.4	5.1	5.7	6.2
82.5°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	6.7	7.5	8.2	8.9
80°	0.0	1.3	2.6	3.8	5.1	6.4	7.6	8.5	9.4	10.3	11.2
77.5°	0.0	1.6	3.2	4.8	6.4	7.8	9.0	10.1	11.2	12.4	13.8
75°	0.0	1.9	3.8	5.7	7.6	9.0	10.4	11.7	13.2	15.4	17.6
72.5°	0.0	2.2	4.4	6.7	8.5	10.1	11.7	13.6	16.2	18.8	21.4
70°	0.0	2.5	5.1	7.5	9.4	11.2	13.2	16.2	19.2	22.2	26.3
67.5°	0.0	2.8	5.7	8.2	10.3	12.4	15.4	18.8	22.2	26.9	31.4
65°	0.0	3.1	6.2	8.9	11.2	13.8	17.6	21.4	26.3	31.4	38.0
62.5°	0.0	3.4	6.8	9.5	12.0	15.6	19.8	24.6	30.3	36.8	47.9
60°	0.0	3.7	7.4	10.1	12.9	17.4	21.9	28.0	34.2	45.6	57.6
57.5°	0.0	4.0	7.8	10.7	14.2	19.1	24.6	31.4	41.1	54.2	82.8
55°	0.0	4.2	8.2	11.3	15.5	20.7	27.5	34.6	48.5	67.0	114.7
52.5°	0.0	4.5	8.6	11.9	16.8	22.5	30.2	40.6	55.7	95.1	145.9
50°	0.0	4.8	9.0	12.5	18.1	24.7	32.8	46.8	67.8	122.2	202.4
47.5°	0.0	5.0	9.3	13.1	19.3	26.8	35.7	52.7	91.1	148.5	260.3
45°	0.0	5.2	9.7	14.0	20.5	28.8	40.6	58.4	113.6	198.0	316.0
42.5°	0.0	5.5	10.0	14.8	21.6	30.8	45.3	71.6	135.2	246.2	381.7
40°	0.0	5.7	10.3	15.6	22.8	32.6	49.8	89.6	162.3	292.2	446.6
37.5°	0.0	5.9	10.6	16.4	24.3	34.4	54.0	106.7	201.1	339.3	508.5
35°	0.0	6.1	10.9	17.1	25.6	37.2	58.0	122.9	237.9	391.8	566.6
32.5°	0.0	6.2	11.2	17.8	26.9	40.3	64.5	138.2	272.6	441.3	620.6
30°	0.0	6.4	11.4	18.4	28.0	43.3	76.7	155.7	305.0	487.7	671.2
27.5°	0.0	6.6	11.7	19.0	29.1	46.0	88.0	181.9	338.1	530.8	718.3
25°	0.0	6.7	11.9	19.5	30.1	48.5	98.4	206.1	373.2	570.0	762.3
22.5°	0.0	6.8	12.1	20.0	31.0	50.8	107.9	228.1	405.2	605.4	812.6
20°	0.0	7.0	12.2	20.4	31.9	52.8	116.4	247.9	434.1	637.4	858.0
17.5°	0.0	7.1	12.4	20.8	32.6	54.7	124.0	265.6	459.7	665.8	898.3
15°	0.0	7.1	12.5	21.2	33.2	56.3	130.6	280.9	482.1	690.6	933.6
12.5°	0.0	7.2	12.6	21.4	33.8	57.6	136.2	294.0	501.1	711.6	963.6
10°	0.0	7.3	12.7	21.7	34.2	58.7	140.9	304.7	516.7	729.0	988.2
7.5°	0.0	7.3	12.8	21.9	34.6	59.6	144.5	313.1	529.0	742.5	1007.5
5°	0.0	7.4	12.9	22.0	34.8	60.2	147.0	319.1	537.7	752.2	1021.3
2.5°	0.0	7.4	12.9	22.1	35.0	60.6	148.6	322.7	542.9	758.1	1029.6
0°	0.0	7.4	12.9	22.1	35.0	60.6	148.6	322.7	542.9	758.1	1029.6
-2.5°	0.0	7.4	12.9	22.1	35.0	60.6	148.6	322.7	542.9	758.1	1029.6
-5°	0.0	7.4	12.9	22.0	34.8	60.2	147.0	319.1	537.7	752.2	1021.3
-7.5°	0.0	7.3	12.8	21.9	34.6	59.6	144.5	313.1	529.0	742.5	1007.5
-10°	0.0	7.3	12.7	21.7	34.2	58.7	140.9	304.7	516.7	729.0	988.2
-12.5°	0.0	7.2	12.6	21.4	33.8	57.6	136.2	294.0	501.1	711.6	963.6
-15°	0.0	7.1	12.5	21.2	33.2	56.3	130.6	280.9	482.1	690.6	933.6
-17.5°	0.0	7.1	12.4	20.8	32.6	54.7	124.0	265.6	459.7	665.8	898.3
-20°	0.0	7.0	12.2	20.4	31.9	52.8	116.4	247.9	434.1	637.4	858.0



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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	6.8	12.1	20.0	31.0	50.8	107.9	228.1	405.2	605.4	812.6
-25°	0.0	6.7	11.9	19.5	30.1	48.5	98.4	206.1	373.2	570.0	762.3
-27.5°	0.0	6.6	11.7	19.0	29.1	46.0	88.0	181.9	338.1	530.8	718.3
-30°	0.0	6.4	11.4	18.4	28.0	43.3	76.7	155.7	305.0	487.7	671.2
-32.5°	0.0	6.2	11.2	17.8	26.9	40.3	64.5	138.2	272.6	441.3	620.6
-35°	0.0	6.1	10.9	17.1	25.6	37.2	58.0	122.9	237.9	391.8	566.6
-37.5°	0.0	5.9	10.6	16.4	24.3	34.4	54.0	106.7	201.1	339.3	508.5
-40°	0.0	5.7	10.3	15.6	22.8	32.6	49.8	89.6	162.3	292.2	446.6
-42.5°	0.0	5.5	10.0	14.8	21.6	30.8	45.3	71.6	135.2	246.2	381.7
-45°	0.0	5.2	9.7	14.0	20.5	28.8	40.6	58.4	113.6	198.0	316.0
-47.5°	0.0	5.0	9.3	13.1	19.3	26.8	35.7	52.7	91.1	148.5	260.3
-50°	0.0	4.8	9.0	12.5	18.1	24.7	32.8	46.8	67.8	122.2	202.4
-52.5°	0.0	4.5	8.6	11.9	16.8	22.5	30.2	40.6	55.7	95.1	145.9
-55°	0.0	4.2	8.2	11.3	15.5	20.7	27.5	34.6	48.5	67.0	114.7
-57.5°	0.0	4.0	7.8	10.7	14.2	19.1	24.6	31.4	41.1	54.2	82.8
-60°	0.0	3.7	7.4	10.1	12.9	17.4	21.9	28.0	34.2	45.6	57.6
-62.5°	0.0	3.4	6.8	9.5	12.0	15.6	19.8	24.6	30.3	36.8	47.9
-65°	0.0	3.1	6.2	8.9	11.2	13.8	17.6	21.4	26.3	31.4	38.0
-67.5°	0.0	2.8	5.7	8.2	10.3	12.4	15.4	18.8	22.2	26.9	31.4
-70°	0.0	2.5	5.1	7.5	9.4	11.2	13.2	16.2	19.2	22.2	26.3
-72.5°	0.0	2.2	4.4	6.7	8.5	10.1	11.7	13.6	16.2	18.8	21.4
-75°	0.0	1.9	3.8	5.7	7.6	9.0	10.4	11.7	13.2	15.4	17.6
-77.5°	0.0	1.6	3.2	4.8	6.4	7.8	9.0	10.1	11.2	12.4	13.8
-80°	0.0	1.3	2.6	3.8	5.1	6.4	7.6	8.5	9.4	10.3	11.2
-82.5°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	6.7	7.5	8.2	8.9
-85°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.4	5.1	5.7	6.2
-87.5°	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
-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°	3.4	3.7	4.0	4.2	4.5	4.8	5.0	5.2	5.5	5.7	5.9
85°	6.8	7.4	7.8	8.2	8.6	9.0	9.3	9.7	10.0	10.3	10.6
82.5°	9.5	10.1	10.7	11.3	11.9	12.5	13.1	14.0	14.8	15.6	16.4
80°	12.0	12.9	14.2	15.5	16.8	18.1	19.3	20.5	21.6	22.8	24.3
77.5°	15.6	17.4	19.1	20.7	22.5	24.7	26.8	28.8	30.8	32.6	34.4
75°	19.8	21.9	24.6	27.5	30.2	32.8	35.7	40.6	45.3	49.8	54.0
72.5°	24.6	28.0	31.4	34.6	40.6	46.8	52.7	58.4	71.6	89.6	106.7
70°	30.3	34.2	41.1	48.5	55.7	67.8	91.1	113.6	135.2	162.3	201.1
67.5°	36.8	45.6	54.2	67.0	95.1	122.2	148.5	198.0	246.2	292.2	339.3
65°	47.9	57.6	82.8	114.7	145.9	202.4	260.3	316.0	381.7	446.6	508.5
62.5°	58.8	90.7	126.6	174.1	241.8	307.5	383.7	461.4	536.2	606.3	673.0
60°	90.7	130.6	189.9	265.6	343.4	434.1	522.0	605.4	685.2	762.3	854.9
57.5°	126.6	189.9	273.5	363.6	464.5	562.3	655.3	745.3	851.2	956.7	1058.1
55°	174.1	265.6	363.6	474.7	582.3	685.5	792.6	915.5	1034.3	1150.7	1262.3
52.5°	241.8	343.4	464.5	582.3	695.6	818.4	954.5	1087.6	1217.9	1342.4	1459.5
50°	307.5	434.1	562.3	685.5	818.4	967.5	1114.5	1258.5	1395.6	1526.6	1669.3
47.5°	383.7	522.0	655.3	792.6	954.5	1114.5	1272.1	1422.4	1567.2	1737.1	1903.7
45°	461.4	605.4	745.3	915.5	1087.6	1258.5	1422.4	1580.8	1771.3	1957.3	2142.9
42.5°	536.2	685.2	851.2	1034.3	1217.9	1395.6	1567.2	1771.3	1975.5	2179.7	2358.1
40°	606.3	762.3	956.7	1150.7	1342.4	1526.6	1737.1	1957.3	2179.7	2373.8	2547.6
37.5°	673.0	854.9	1058.1	1262.3	1459.5	1669.3	1903.7	2142.9	2358.1	2547.6	2701.4
35°	736.3	942.9	1156.0	1367.0	1571.3	1818.2	2069.8	2311.5	2515.7	2687.9	3111.5
32.5°	805.7	1026.0	1248.7	1465.1	1700.3	1961.6	2228.4	2452.6	2647.6	2942.6	3976.9
30°	876.7	1105.6	1335.3	1557.4	1824.2	2101.2	2359.4	2581.3	2766.4	3718.6	4710.1
27.5°	942.9	1180.0	1414.5	1658.7	1941.2	2232.0	2476.6	2685.8	3294.2	4420.9	5356.0
25°	1004.0	1248.7	1487.8	1757.8	2053.5	2338.8	2580.7	2783.3	3935.6	4988.0	5683.8
22.5°	1060.4	1311.6	1555.1	1848.7	2156.8	2431.8	2664.2	3263.3	4484.3	5499.6	5915.5
20°	1111.9	1367.0	1624.3	1931.7	2250.5	2516.4	2740.2	3766.1	4931.6	5697.3	6137.2
17.5°	1157.8	1416.4	1691.4	2008.5	2322.6	2585.9	2865.0	4217.6	5334.1	5875.7	6341.9
15°	1197.8	1459.5	1750.2	2075.7	2383.6	2641.0	3231.5	4555.1	5571.4	6036.2	6524.6
12.5°	1232.0	1496.3	1800.3	2133.1	2435.7	2688.2	3545.5	4836.3	5696.6	6180.6	6716.7
10°	1260.0	1526.6	1841.6	2180.5	2478.8	2727.1	3805.2	5069.1	5800.4	6300.6	6876.7
7.5°	1282.0	1550.2	1873.9	2217.5	2512.5	2757.7	4008.9	5252.0	5882.0	6395.1	7003.0
5°	1297.7	1567.2	1897.1	2244.1	2536.7	2779.6	4155.3	5383.6	5940.8	6463.3	7094.2
2.5°	1307.1	1577.4	1911.0	2260.1	2551.2	2792.8	4243.6	5463.0	5976.3	6504.4	7149.3
0°	1310.3	1580.8	1915.7	2265.4	2556.1	2797.2	4273.1	5489.5	5988.2	6518.2	7167.8
-2.5°	1307.1	1577.4	1911.0	2260.1	2551.2	2792.8	4243.6	5463.0	5976.3	6504.4	7149.3
-5°	1297.7	1567.2	1897.1	2244.1	2536.7	2779.6	4155.3	5383.6	5940.8	6463.3	7094.2
-7.5°	1282.0	1550.2	1873.9	2217.5	2512.5	2757.7	4008.9	5252.0	5882.0	6395.1	7003.0
-10°	1260.0	1526.6	1841.6	2180.5	2478.8	2727.1	3805.2	5069.1	5800.4	6300.6	6876.7
-12.5°	1232.0	1496.3	1800.3	2133.1	2435.7	2688.2	3545.5	4836.3	5696.6	6180.6	6716.7
-15°	1197.8	1459.5	1750.2	2075.7	2383.6	2641.0	3231.5	4555.1	5571.4	6036.2	6524.6
-17.5°	1157.8	1416.4	1691.4	2008.5	2322.6	2585.9	2865.0	4217.6	5334.1	5875.7	6341.9
-20°	1111.9	1367.0	1624.3	1931.7	2250.5	2516.4	2740.2	3766.1	4931.6	5697.3	6137.2



REPORT NUMBER: P731272 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1060.4	1311.6	1555.1	1848.7	2156.8	2431.8	2664.2	3263.3	4484.3	5499.6	5915.5
-25°	1004.0	1248.7	1487.8	1757.8	2053.5	2338.8	2580.7	2783.3	3935.6	4988.0	5683.8
-27.5°	942.9	1180.0	1414.5	1658.7	1941.2	2232.0	2476.6	2685.8	3294.2	4420.9	5356.0
-30°	876.7	1105.6	1335.3	1557.4	1824.2	2101.2	2359.4	2581.3	2766.4	3718.6	4710.1
-32.5°	805.7	1026.0	1248.7	1465.1	1700.3	1961.6	2228.4	2452.6	2647.6	2942.6	3976.9
-35°	736.3	942.9	1156.0	1367.0	1571.3	1818.2	2069.8	2311.5	2515.7	2687.9	3111.5
-37.5°	673.0	854.9	1058.1	1262.3	1459.5	1669.3	1903.7	2142.9	2358.1	2547.6	2701.4
-40°	606.3	762.3	956.7	1150.7	1342.4	1526.6	1737.1	1957.3	2179.7	2373.8	2547.6
-42.5°	536.2	685.2	851.2	1034.3	1217.9	1395.6	1567.2	1771.3	1975.5	2179.7	2358.1
-45°	461.4	605.4	745.3	915.5	1087.6	1258.5	1422.4	1580.8	1771.3	1957.3	2142.9
-47.5°	383.7	522.0	655.3	792.6	954.5	1114.5	1272.1	1422.4	1567.2	1737.1	1903.7
-50°	307.5	434.1	562.3	685.5	818.4	967.5	1114.5	1258.5	1395.6	1526.6	1669.3
-52.5°	241.8	343.4	464.5	582.3	695.6	818.4	954.5	1087.6	1217.9	1342.4	1459.5
-55°	174.1	265.6	363.6	474.7	582.3	685.5	792.6	915.5	1034.3	1150.7	1262.3
-57.5°	126.6	189.9	273.5	363.6	464.5	562.3	655.3	745.3	851.2	956.7	1058.1
-60°	90.7	130.6	189.9	265.6	343.4	434.1	522.0	605.4	685.2	762.3	854.9
-62.5°	58.8	90.7	126.6	174.1	241.8	307.5	383.7	461.4	536.2	606.3	673.0
-65°	47.9	57.6	82.8	114.7	145.9	202.4	260.3	316.0	381.7	446.6	508.5
-67.5°	36.8	45.6	54.2	67.0	95.1	122.2	148.5	198.0	246.2	292.2	339.3
-70°	30.3	34.2	41.1	48.5	55.7	67.8	91.1	113.6	135.2	162.3	201.1
-72.5°	24.6	28.0	31.4	34.6	40.6	46.8	52.7	58.4	71.6	89.6	106.7
-75°	19.8	21.9	24.6	27.5	30.2	32.8	35.7	40.6	45.3	49.8	54.0
-77.5°	15.6	17.4	19.1	20.7	22.5	24.7	26.8	28.8	30.8	32.6	34.4
-80°	12.0	12.9	14.2	15.5	16.8	18.1	19.3	20.5	21.6	22.8	24.3
-82.5°	9.5	10.1	10.7	11.3	11.9	12.5	13.1	14.0	14.8	15.6	16.4
-85°	6.8	7.4	7.8	8.2	8.6	9.0	9.3	9.7	10.0	10.3	10.6
-87.5°	3.4	3.7	4.0	4.2	4.5	4.8	5.0	5.2	5.5	5.7	5.9
-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):**

	-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°	6.1	6.2	6.4	6.6	6.7	6.8	7.0	7.1	7.1	7.2	7.3
85°	10.9	11.2	11.4	11.7	11.9	12.1	12.2	12.4	12.5	12.6	12.7
82.5°	17.1	17.8	18.4	19.0	19.5	20.0	20.4	20.8	21.2	21.4	21.7
80°	25.6	26.9	28.0	29.1	30.1	31.0	31.9	32.6	33.2	33.8	34.2
77.5°	37.2	40.3	43.3	46.0	48.5	50.8	52.8	54.7	56.3	57.6	58.7
75°	58.0	64.5	76.7	88.0	98.4	107.9	116.4	124.0	130.6	136.2	140.9
72.5°	122.9	138.2	155.7	181.9	206.1	228.1	247.9	265.6	280.9	294.0	304.7
70°	237.9	272.6	305.0	338.1	373.2	405.2	434.1	459.7	482.1	501.1	516.7
67.5°	391.8	441.3	487.7	530.8	570.0	605.4	637.4	665.8	690.6	711.6	729.0
65°	566.6	620.6	671.2	718.3	762.3	812.6	858.0	898.3	933.6	963.6	988.2
62.5°	736.3	805.7	876.7	942.9	1004.0	1060.4	1111.9	1157.8	1197.8	1232.0	1260.0
60°	942.9	1026.0	1105.6	1180.0	1248.7	1311.6	1367.0	1416.4	1459.5	1496.3	1526.6
57.5°	1156.0	1248.7	1335.3	1414.5	1487.8	1555.1	1624.3	1691.4	1750.2	1800.3	1841.6
55°	1367.0	1465.1	1557.4	1658.7	1757.8	1848.7	1931.7	2008.5	2075.7	2133.1	2180.5
52.5°	1571.3	1700.3	1824.2	1941.2	2053.5	2156.8	2250.5	2322.6	2383.6	2435.7	2478.8
50°	1818.2	1961.6	2101.2	2232.0	2338.8	2431.8	2516.4	2585.9	2641.0	2688.2	2727.1
47.5°	2069.8	2228.4	2359.4	2476.6	2580.7	2664.2	2740.2	2865.0	3231.5	3545.5	3805.2
45°	2311.5	2452.6	2581.3	2685.8	2783.3	3263.3	3766.1	4217.6	4555.1	4836.3	5069.1
42.5°	2515.7	2647.6	2766.4	3294.2	3935.6	4484.3	4931.6	5334.1	5571.4	5696.6	5800.4
40°	2687.9	2942.6	3718.6	4420.9	4988.0	5499.6	5697.3	5875.7	6036.2	6180.6	6300.6
37.5°	3111.5	3976.9	4710.1	5356.0	5683.8	5915.5	6137.2	6341.9	6524.6	6716.7	6876.7
35°	4063.6	4856.3	5526.7	5809.0	6080.8	6344.9	6604.3	6875.3	7116.2	7376.6	7608.1
32.5°	4856.3	5557.6	5872.5	6184.5	6486.6	6826.5	7147.7	7529.7	7876.6	8293.4	8743.7
30°	5526.7	5872.5	6219.4	6567.6	6962.6	7388.7	7847.5	8452.0	9122.7	9785.9	10554.8
27.5°	5809.0	6184.5	6567.6	7008.4	7514.6	8051.8	8930.5	9833.4	10970.8	11968.4	14367.2
25°	6080.8	6486.6	6962.6	7514.6	8169.1	9174.4	10426.6	11790.0	14980.5	18095.4	23299.0
22.5°	6344.9	6826.5	7388.7	8051.8	9174.4	10627.2	12647.8	16853.8	23184.8	31178.0	39916.6
20°	6604.3	7147.7	7847.5	8930.5	10426.6	12647.8	17489.1	26314.6	36832.6	50967.3	64015.4
17.5°	6875.3	7529.7	8452.0	9833.4	11790.0	16853.8	26314.6	39534.3	56696.5	76273.8	94631.8
15°	7116.2	7876.6	9122.7	10970.8	14980.5	23184.8	36832.6	56696.5	80478.4	104748.4	128164.0
12.5°	7376.6	8293.4	9785.9	11968.4	18095.4	31178.0	50967.3	76273.8	104748.4	133851.2	159048.4
10°	7608.1	8743.7	10554.8	14367.2	23299.0	39916.6	64015.4	94631.8	128164.0	159048.4	189107.6
7.5°	7791.3	9100.8	11166.8	16291.0	28279.2	48826.5	77468.8	111762.8	147256.8	181485.7	219919.9
5°	7923.8	9359.8	11611.8	17694.9	31929.6	55395.2	87463.9	124739.5	161557.5	201458.8	245420.9
2.5°	8004.0	9516.8	11882.1	18549.8	34159.6	59425.1	93631.5	132812.7	170561.6	214861.9	264138.0
0°	8030.9	9569.4	11972.8	18836.9	34909.8	60783.9	95717.7	135555.7	173641.8	219484.7	270874.1
-2.5°	8004.0	9516.8	11882.1	18549.8	34159.6	59425.1	93631.5	132812.7	170561.6	214861.9	264138.0
-5°	7923.8	9359.8	11611.8	17694.9	31929.6	55395.2	87463.9	124739.5	161557.5	201458.8	245420.9
-7.5°	7791.3	9100.8	11166.8	16291.0	28279.2	48826.5	77468.8	111762.8	147256.8	181485.7	219919.9
-10°	7608.1	8743.7	10554.8	14367.2	23299.0	39916.6	64015.4	94631.8	128164.0	159048.4	189107.6
-12.5°	7376.6	8293.4	9785.9	11968.4	18095.4	31178.0	50967.3	76273.8	104748.4	133851.2	159048.4
-15°	7116.2	7876.6	9122.7	10970.8	14980.5	23184.8	36832.6	56696.5	80478.4	104748.4	128164.0
-17.5°	6875.3	7529.7	8452.0	9833.4	11790.0	16853.8	26314.6	39534.3	56696.5	76273.8	94631.8
-20°	6604.3	7147.7	7847.5	8930.5	10426.6	12647.8	17489.1	26314.6	36832.6	50967.3	64015.4



REPORT NUMBER: P731272 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6344.9	6826.5	7388.7	8051.8	9174.4	10627.2	12647.8	16853.8	23184.8	31178.0	39916.6
-25°	6080.8	6486.6	6962.6	7514.6	8169.1	9174.4	10426.6	11790.0	14980.5	18095.4	23299.0
-27.5°	5809.0	6184.5	6567.6	7008.4	7514.6	8051.8	8930.5	9833.4	10970.8	11968.4	14367.2
-30°	5526.7	5872.5	6219.4	6567.6	6962.6	7388.7	7847.5	8452.0	9122.7	9785.9	10554.8
-32.5°	4856.3	5557.6	5872.5	6184.5	6486.6	6826.5	7147.7	7529.7	7876.6	8293.4	8743.7
-35°	4063.6	4856.3	5526.7	5809.0	6080.8	6344.9	6604.3	6875.3	7116.2	7376.6	7608.1
-37.5°	3111.5	3976.9	4710.1	5356.0	5683.8	5915.5	6137.2	6341.9	6524.6	6716.7	6876.7
-40°	2687.9	2942.6	3718.6	4420.9	4988.0	5499.6	5697.3	5875.7	6036.2	6180.6	6300.6
-42.5°	2515.7	2647.6	2766.4	3294.2	3935.6	4484.3	4931.6	5334.1	5571.4	5696.6	5800.4
-45°	2311.5	2452.6	2581.3	2685.8	2783.3	3263.3	3766.1	4217.6	4555.1	4836.3	5069.1
-47.5°	2069.8	2228.4	2359.4	2476.6	2580.7	2664.2	2740.2	2865.0	3231.5	3545.5	3805.2
-50°	1818.2	1961.6	2101.2	2232.0	2338.8	2431.8	2516.4	2585.9	2641.0	2688.2	2727.1
-52.5°	1571.3	1700.3	1824.2	1941.2	2053.5	2156.8	2250.5	2322.6	2383.6	2435.7	2478.8
-55°	1367.0	1465.1	1557.4	1658.7	1757.8	1848.7	1931.7	2008.5	2075.7	2133.1	2180.5
-57.5°	1156.0	1248.7	1335.3	1414.5	1487.8	1555.1	1624.3	1691.4	1750.2	1800.3	1841.6
-60°	942.9	1026.0	1105.6	1180.0	1248.7	1311.6	1367.0	1416.4	1459.5	1496.3	1526.6
-62.5°	736.3	805.7	876.7	942.9	1004.0	1060.4	1111.9	1157.8	1197.8	1232.0	1260.0
-65°	566.6	620.6	671.2	718.3	762.3	812.6	858.0	898.3	933.6	963.6	988.2
-67.5°	391.8	441.3	487.7	530.8	570.0	605.4	637.4	665.8	690.6	711.6	729.0
-70°	237.9	272.6	305.0	338.1	373.2	405.2	434.1	459.7	482.1	501.1	516.7
-72.5°	122.9	138.2	155.7	181.9	206.1	228.1	247.9	265.6	280.9	294.0	304.7
-75°	58.0	64.5	76.7	88.0	98.4	107.9	116.4	124.0	130.6	136.2	140.9
-77.5°	37.2	40.3	43.3	46.0	48.5	50.8	52.8	54.7	56.3	57.6	58.7
-80°	25.6	26.9	28.0	29.1	30.1	31.0	31.9	32.6	33.2	33.8	34.2
-82.5°	17.1	17.8	18.4	19.0	19.5	20.0	20.4	20.8	21.2	21.4	21.7
-85°	10.9	11.2	11.4	11.7	11.9	12.1	12.2	12.4	12.5	12.6	12.7
-87.5°	6.1	6.2	6.4	6.6	6.7	6.8	7.0	7.1	7.1	7.2	7.3
-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: P731272 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-3S-HEG

**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°	7.3	7.4	7.4	7.4	7.4	7.4	7.3	7.3	7.2	7.1	7.1
85°	12.8	12.9	12.9	12.9	12.9	12.9	12.8	12.7	12.6	12.5	12.4
82.5°	21.9	22.0	22.1	22.1	22.1	22.0	21.9	21.7	21.4	21.2	20.8
80°	34.6	34.8	35.0	35.0	35.0	34.8	34.6	34.2	33.8	33.2	32.6
77.5°	59.6	60.2	60.6	60.7	60.6	60.2	59.6	58.7	57.6	56.3	54.7
75°	144.5	147.0	148.6	149.1	148.6	147.0	144.5	140.9	136.2	130.6	124.0
72.5°	313.1	319.1	322.7	323.9	322.7	319.1	313.1	304.7	294.0	280.9	265.6
70°	529.0	537.7	542.9	544.7	542.9	537.7	529.0	516.7	501.1	482.1	459.7
67.5°	742.5	752.2	758.1	760.0	758.1	752.2	742.5	729.0	711.6	690.6	665.8
65°	1007.5	1021.3	1029.6	1032.4	1029.6	1021.3	1007.5	988.2	963.6	933.6	898.3
62.5°	1282.0	1297.7	1307.1	1310.3	1307.1	1297.7	1282.0	1260.0	1232.0	1197.8	1157.8
60°	1550.2	1567.2	1577.4	1580.8	1577.4	1567.2	1550.2	1526.6	1496.3	1459.5	1416.4
57.5°	1873.9	1897.1	1911.0	1915.7	1911.0	1897.1	1873.9	1841.6	1800.3	1750.2	1691.4
55°	2217.5	2244.1	2260.1	2265.4	2260.1	2244.1	2217.5	2180.5	2133.1	2075.7	2008.5
52.5°	2512.5	2536.7	2551.2	2556.1	2551.2	2536.7	2512.5	2478.8	2435.7	2383.6	2322.6
50°	2757.7	2779.6	2792.8	2797.2	2792.8	2779.6	2757.7	2727.1	2688.2	2641.0	2585.9
47.5°	4008.9	4155.3	4243.6	4273.1	4243.6	4155.3	4008.9	3805.2	3545.5	3231.5	2865.0
45°	5252.0	5383.6	5463.0	5489.5	5463.0	5383.6	5252.0	5069.1	4836.3	4555.1	4217.6
42.5°	5882.0	5940.8	5976.3	5988.2	5976.3	5940.8	5882.0	5800.4	5696.6	5571.4	5334.1
40°	6395.1	6463.3	6504.4	6518.2	6504.4	6463.3	6395.1	6300.6	6180.6	6036.2	5875.7
37.5°	7003.0	7094.2	7149.3	7167.8	7149.3	7094.2	7003.0	6876.7	6716.7	6524.6	6341.9
35°	7791.3	7923.8	8004.0	8030.9	8004.0	7923.8	7791.3	7608.1	7376.6	7116.2	6875.3
32.5°	9100.8	9359.8	9516.8	9569.4	9516.8	9359.8	9100.8	8743.7	8293.4	7876.6	7529.7
30°	11166.8	11611.8	11882.1	11972.8	11882.1	11611.8	11166.8	10554.8	9785.9	9122.7	8452.0
27.5°	16291.0	17694.9	18549.8	18836.9	18549.8	17694.9	16291.0	14367.2	11968.4	10970.8	9833.4
25°	28279.2	31929.6	34159.6	34909.8	34159.6	31929.6	28279.2	23299.0	18095.4	14980.5	11790.0
22.5°	48826.5	55395.2	59425.1	60783.9	59425.1	55395.2	48826.5	39916.6	31178.0	23184.8	16853.8
20°	77468.8	87463.9	93631.5	95717.7	93631.5	87463.9	77468.8	64015.4	50967.3	36832.6	26314.6
17.5°	111762.8	124739.5	132812.7	135555.7	132812.7	124739.5	111762.8	94631.8	76273.8	56696.5	39534.3
15°	147256.8	161557.5	170561.6	173641.8	170561.6	161557.5	147256.8	128164.0	104748.4	80478.4	56696.5
12.5°	181485.7	201458.8	214861.9	219484.7	214861.9	201458.8	181485.7	159048.4	133851.2	104748.4	76273.8
10°	219919.9	245420.9	264138.0	270874.1	264138.0	245420.9	219919.9	189107.6	159048.4	128164.0	94631.8
7.5°	257798.6	292224.2	311266.6	316920.2	311266.6	292224.2	257798.6	219919.9	181485.7	147256.8	111762.8
5°	292224.2	322994.1	340607.0	346700.3	340607.0	322994.1	292224.2	245420.9	201458.8	161557.5	124739.5
2.5°	311266.6	340607.0	365055.2	381645.1	365055.2	340607.0	311266.6	264138.0	214861.9	170561.6	132812.7
0°	316920.2	346700.3	381645.1	404924.4	381645.1	346700.3	316920.2	270874.1	219484.7	173641.8	135555.7
-2.5°	311266.6	340607.0	365055.2	381645.1	365055.2	340607.0	311266.6	264138.0	214861.9	170561.6	132812.7
-5°	292224.2	322994.1	340607.0	346700.3	340607.0	322994.1	292224.2	245420.9	201458.8	161557.5	124739.5
-7.5°	257798.6	292224.2	311266.6	316920.2	311266.6	292224.2	257798.6	219919.9	181485.7	147256.8	111762.8
-10°	219919.9	245420.9	264138.0	270874.1	264138.0	245420.9	219919.9	189107.6	159048.4	128164.0	94631.8
-12.5°	181485.7	201458.8	214861.9	219484.7	214861.9	201458.8	181485.7	159048.4	133851.2	104748.4	76273.8
-15°	147256.8	161557.5	170561.6	173641.8	170561.6	161557.5	147256.8	128164.0	104748.4	80478.4	56696.5
-17.5°	111762.8	124739.5	132812.7	135555.7	132812.7	124739.5	111762.8	94631.8	76273.8	56696.5	39534.3
-20°	77468.8	87463.9	93631.5	95717.7	93631.5	87463.9	77468.8	64015.4	50967.3	36832.6	26314.6



REPORT NUMBER: P731272 (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°	48826.5	55395.2	59425.1	60783.9	59425.1	55395.2	48826.5	39916.6	31178.0	23184.8	16853.8
-25°	28279.2	31929.6	34159.6	34909.8	34159.6	31929.6	28279.2	23299.0	18095.4	14980.5	11790.0
-27.5°	16291.0	17694.9	18549.8	18836.9	18549.8	17694.9	16291.0	14367.2	11968.4	10970.8	9833.4
-30°	11166.8	11611.8	11882.1	11972.8	11882.1	11611.8	11166.8	10554.8	9785.9	9122.7	8452.0
-32.5°	9100.8	9359.8	9516.8	9569.4	9516.8	9359.8	9100.8	8743.7	8293.4	7876.6	7529.7
-35°	7791.3	7923.8	8004.0	8030.9	8004.0	7923.8	7791.3	7608.1	7376.6	7116.2	6875.3
-37.5°	7003.0	7094.2	7149.3	7167.8	7149.3	7094.2	7003.0	6876.7	6716.7	6524.6	6341.9
-40°	6395.1	6463.3	6504.4	6518.2	6504.4	6463.3	6395.1	6300.6	6180.6	6036.2	5875.7
-42.5°	5882.0	5940.8	5976.3	5988.2	5976.3	5940.8	5882.0	5800.4	5696.6	5571.4	5334.1
-45°	5252.0	5383.6	5463.0	5489.5	5463.0	5383.6	5252.0	5069.1	4836.3	4555.1	4217.6
-47.5°	4008.9	4155.3	4243.6	4273.1	4243.6	4155.3	4008.9	3805.2	3545.5	3231.5	2865.0
-50°	2757.7	2779.6	2792.8	2797.2	2792.8	2779.6	2757.7	2727.1	2688.2	2641.0	2585.9
-52.5°	2512.5	2536.7	2551.2	2556.1	2551.2	2536.7	2512.5	2478.8	2435.7	2383.6	2322.6
-55°	2217.5	2244.1	2260.1	2265.4	2260.1	2244.1	2217.5	2180.5	2133.1	2075.7	2008.5
-57.5°	1873.9	1897.1	1911.0	1915.7	1911.0	1897.1	1873.9	1841.6	1800.3	1750.2	1691.4
-60°	1550.2	1567.2	1577.4	1580.8	1577.4	1567.2	1550.2	1526.6	1496.3	1459.5	1416.4
-62.5°	1282.0	1297.7	1307.1	1310.3	1307.1	1297.7	1282.0	1260.0	1232.0	1197.8	1157.8
-65°	1007.5	1021.3	1029.6	1032.4	1029.6	1021.3	1007.5	988.2	963.6	933.6	898.3
-67.5°	742.5	752.2	758.1	760.0	758.1	752.2	742.5	729.0	711.6	690.6	665.8
-70°	529.0	537.7	542.9	544.7	542.9	537.7	529.0	516.7	501.1	482.1	459.7
-72.5°	313.1	319.1	322.7	323.9	322.7	319.1	313.1	304.7	294.0	280.9	265.6
-75°	144.5	147.0	148.6	149.1	148.6	147.0	144.5	140.9	136.2	130.6	124.0
-77.5°	59.6	60.2	60.6	60.7	60.6	60.2	59.6	58.7	57.6	56.3	54.7
-80°	34.6	34.8	35.0	35.0	35.0	34.8	34.6	34.2	33.8	33.2	32.6
-82.5°	21.9	22.0	22.1	22.1	22.1	22.0	21.9	21.7	21.4	21.2	20.8
-85°	12.8	12.9	12.9	12.9	12.9	12.9	12.8	12.7	12.6	12.5	12.4
-87.5°	7.3	7.4	7.4	7.4	7.4	7.4	7.3	7.3	7.2	7.1	7.1
-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°	7.0	6.8	6.7	6.6	6.4	6.2	6.1	5.9	5.7	5.5	5.2
85°	12.2	12.1	11.9	11.7	11.4	11.2	10.9	10.6	10.3	10.0	9.7
82.5°	20.4	20.0	19.5	19.0	18.4	17.8	17.1	16.4	15.6	14.8	14.0
80°	31.9	31.0	30.1	29.1	28.0	26.9	25.6	24.3	22.8	21.6	20.5
77.5°	52.8	50.8	48.5	46.0	43.3	40.3	37.2	34.4	32.6	30.8	28.8
75°	116.4	107.9	98.4	88.0	76.7	64.5	58.0	54.0	49.8	45.3	40.6
72.5°	247.9	228.1	206.1	181.9	155.7	138.2	122.9	106.7	89.6	71.6	58.4
70°	434.1	405.2	373.2	338.1	305.0	272.6	237.9	201.1	162.3	135.2	113.6
67.5°	637.4	605.4	570.0	530.8	487.7	441.3	391.8	339.3	292.2	246.2	198.0
65°	858.0	812.6	762.3	718.3	671.2	620.6	566.6	508.5	446.6	381.7	316.0
62.5°	1111.9	1060.4	1004.0	942.9	876.7	805.7	736.3	673.0	606.3	536.2	461.4
60°	1367.0	1311.6	1248.7	1180.0	1105.6	1026.0	942.9	854.9	762.3	685.2	605.4
57.5°	1624.3	1555.1	1487.8	1414.5	1335.3	1248.7	1156.0	1058.1	956.7	851.2	745.3
55°	1931.7	1848.7	1757.8	1658.7	1557.4	1465.1	1367.0	1262.3	1150.7	1034.3	915.5
52.5°	2250.5	2156.8	2053.5	1941.2	1824.2	1700.3	1571.3	1459.5	1342.4	1217.9	1087.6
50°	2516.4	2431.8	2338.8	2232.0	2101.2	1961.6	1818.2	1669.3	1526.6	1395.6	1258.5
47.5°	2740.2	2664.2	2580.7	2476.6	2359.4	2228.4	2069.8	1903.7	1737.1	1567.2	1422.4
45°	3766.1	3263.3	2783.3	2685.8	2581.3	2452.6	2311.5	2142.9	1957.3	1771.3	1580.8
42.5°	4931.6	4484.3	3935.6	3294.2	2766.4	2647.6	2515.7	2358.1	2179.7	1975.5	1771.3
40°	5697.3	5499.6	4988.0	4420.9	3718.6	2942.6	2687.9	2547.6	2373.8	2179.7	1957.3
37.5°	6137.2	5915.5	5683.8	5356.0	4710.1	3976.9	3111.5	2701.4	2547.6	2358.1	2142.9
35°	6604.3	6344.9	6080.8	5809.0	5526.7	4856.3	4063.6	3111.5	2687.9	2515.7	2311.5
32.5°	7147.7	6826.5	6486.6	6184.5	5872.5	5557.6	4856.3	3976.9	2942.6	2647.6	2452.6
30°	7847.5	7388.7	6962.6	6567.6	6219.4	5872.5	5526.7	4710.1	3718.6	2766.4	2581.3
27.5°	8930.5	8051.8	7514.6	7008.4	6567.6	6184.5	5809.0	5356.0	4420.9	3294.2	2685.8
25°	10426.6	9174.4	8169.1	7514.6	6962.6	6486.6	6080.8	5683.8	4988.0	3935.6	2783.3
22.5°	12647.8	10627.2	9174.4	8051.8	7388.7	6826.5	6344.9	5915.5	5499.6	4484.3	3263.3
20°	17489.1	12647.8	10426.6	8930.5	7847.5	7147.7	6604.3	6137.2	5697.3	4931.6	3766.1
17.5°	26314.6	16853.8	11790.0	9833.4	8452.0	7529.7	6875.3	6341.9	5875.7	5334.1	4217.6
15°	36832.6	23184.8	14980.5	10970.8	9122.7	7876.6	7116.2	6524.6	6036.2	5571.4	4555.1
12.5°	50967.3	31178.0	18095.4	11968.4	9785.9	8293.4	7376.6	6716.7	6180.6	5696.6	4836.3
10°	64015.4	39916.6	23299.0	14367.2	10554.8	8743.7	7608.1	6876.7	6300.6	5800.4	5069.1
7.5°	77468.8	48826.5	28279.2	16291.0	11166.8	9100.8	7791.3	7003.0	6395.1	5882.0	5252.0
5°	87463.9	55395.2	31929.6	17694.9	11611.8	9359.8	7923.8	7094.2	6463.3	5940.8	5383.6
2.5°	93631.5	59425.1	34159.6	18549.8	11882.1	9516.8	8004.0	7149.3	6504.4	5976.3	5463.0
0°	95717.7	60783.9	34909.8	18836.9	11972.8	9569.4	8030.9	7167.8	6518.2	5988.2	5489.5
-2.5°	93631.5	59425.1	34159.6	18549.8	11882.1	9516.8	8004.0	7149.3	6504.4	5976.3	5463.0
-5°	87463.9	55395.2	31929.6	17694.9	11611.8	9359.8	7923.8	7094.2	6463.3	5940.8	5383.6
-7.5°	77468.8	48826.5	28279.2	16291.0	11166.8	9100.8	7791.3	7003.0	6395.1	5882.0	5252.0
-10°	64015.4	39916.6	23299.0	14367.2	10554.8	8743.7	7608.1	6876.7	6300.6	5800.4	5069.1
-12.5°	50967.3	31178.0	18095.4	11968.4	9785.9	8293.4	7376.6	6716.7	6180.6	5696.6	4836.3
-15°	36832.6	23184.8	14980.5	10970.8	9122.7	7876.6	7116.2	6524.6	6036.2	5571.4	4555.1
-17.5°	26314.6	16853.8	11790.0	9833.4	8452.0	7529.7	6875.3	6341.9	5875.7	5334.1	4217.6
-20°	17489.1	12647.8	10426.6	8930.5	7847.5	7147.7	6604.3	6137.2	5697.3	4931.6	3766.1



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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°	12647.8	10627.2	9174.4	8051.8	7388.7	6826.5	6344.9	5915.5	5499.6	4484.3	3263.3
-25°	10426.6	9174.4	8169.1	7514.6	6962.6	6486.6	6080.8	5683.8	4988.0	3935.6	2783.3
-27.5°	8930.5	8051.8	7514.6	7008.4	6567.6	6184.5	5809.0	5356.0	4420.9	3294.2	2685.8
-30°	7847.5	7388.7	6962.6	6567.6	6219.4	5872.5	5526.7	4710.1	3718.6	2766.4	2581.3
-32.5°	7147.7	6826.5	6486.6	6184.5	5872.5	5557.6	4856.3	3976.9	2942.6	2647.6	2452.6
-35°	6604.3	6344.9	6080.8	5809.0	5526.7	4856.3	4063.6	3111.5	2687.9	2515.7	2311.5
-37.5°	6137.2	5915.5	5683.8	5356.0	4710.1	3976.9	3111.5	2701.4	2547.6	2358.1	2142.9
-40°	5697.3	5499.6	4988.0	4420.9	3718.6	2942.6	2687.9	2547.6	2373.8	2179.7	1957.3
-42.5°	4931.6	4484.3	3935.6	3294.2	2766.4	2647.6	2515.7	2358.1	2179.7	1975.5	1771.3
-45°	3766.1	3263.3	2783.3	2685.8	2581.3	2452.6	2311.5	2142.9	1957.3	1771.3	1580.8
-47.5°	2740.2	2664.2	2580.7	2476.6	2359.4	2228.4	2069.8	1903.7	1737.1	1567.2	1422.4
-50°	2516.4	2431.8	2338.8	2232.0	2101.2	1961.6	1818.2	1669.3	1526.6	1395.6	1258.5
-52.5°	2250.5	2156.8	2053.5	1941.2	1824.2	1700.3	1571.3	1459.5	1342.4	1217.9	1087.6
-55°	1931.7	1848.7	1757.8	1658.7	1557.4	1465.1	1367.0	1262.3	1150.7	1034.3	915.5
-57.5°	1624.3	1555.1	1487.8	1414.5	1335.3	1248.7	1156.0	1058.1	956.7	851.2	745.3
-60°	1367.0	1311.6	1248.7	1180.0	1105.6	1026.0	942.9	854.9	762.3	685.2	605.4
-62.5°	1111.9	1060.4	1004.0	942.9	876.7	805.7	736.3	673.0	606.3	536.2	461.4
-65°	858.0	812.6	762.3	718.3	671.2	620.6	566.6	508.5	446.6	381.7	316.0
-67.5°	637.4	605.4	570.0	530.8	487.7	441.3	391.8	339.3	292.2	246.2	198.0
-70°	434.1	405.2	373.2	338.1	305.0	272.6	237.9	201.1	162.3	135.2	113.6
-72.5°	247.9	228.1	206.1	181.9	155.7	138.2	122.9	106.7	89.6	71.6	58.4
-75°	116.4	107.9	98.4	88.0	76.7	64.5	58.0	54.0	49.8	45.3	40.6
-77.5°	52.8	50.8	48.5	46.0	43.3	40.3	37.2	34.4	32.6	30.8	28.8
-80°	31.9	31.0	30.1	29.1	28.0	26.9	25.6	24.3	22.8	21.6	20.5
-82.5°	20.4	20.0	19.5	19.0	18.4	17.8	17.1	16.4	15.6	14.8	14.0
-85°	12.2	12.1	11.9	11.7	11.4	11.2	10.9	10.6	10.3	10.0	9.7
-87.5°	7.0	6.8	6.7	6.6	6.4	6.2	6.1	5.9	5.7	5.5	5.2
-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: P731272 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-3S-HEG

**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°	5.0	4.8	4.5	4.2	4.0	3.7	3.4	3.1	2.8	2.5	2.2
85°	9.3	9.0	8.6	8.2	7.8	7.4	6.8	6.2	5.7	5.1	4.4
82.5°	13.1	12.5	11.9	11.3	10.7	10.1	9.5	8.9	8.2	7.5	6.7
80°	19.3	18.1	16.8	15.5	14.2	12.9	12.0	11.2	10.3	9.4	8.5
77.5°	26.8	24.7	22.5	20.7	19.1	17.4	15.6	13.8	12.4	11.2	10.1
75°	35.7	32.8	30.2	27.5	24.6	21.9	19.8	17.6	15.4	13.2	11.7
72.5°	52.7	46.8	40.6	34.6	31.4	28.0	24.6	21.4	18.8	16.2	13.6
70°	91.1	67.8	55.7	48.5	41.1	34.2	30.3	26.3	22.2	19.2	16.2
67.5°	148.5	122.2	95.1	67.0	54.2	45.6	36.8	31.4	26.9	22.2	18.8
65°	260.3	202.4	145.9	114.7	82.8	57.6	47.9	38.0	31.4	26.3	21.4
62.5°	383.7	307.5	241.8	174.1	126.6	90.7	58.8	47.9	36.8	30.3	24.6
60°	522.0	434.1	343.4	265.6	189.9	130.6	90.7	57.6	45.6	34.2	28.0
57.5°	655.3	562.3	464.5	363.6	273.5	189.9	126.6	82.8	54.2	41.1	31.4
55°	792.6	685.5	582.3	474.7	363.6	265.6	174.1	114.7	67.0	48.5	34.6
52.5°	954.5	818.4	695.6	582.3	464.5	343.4	241.8	145.9	95.1	55.7	40.6
50°	1114.5	967.5	818.4	685.5	562.3	434.1	307.5	202.4	122.2	67.8	46.8
47.5°	1272.1	1114.5	954.5	792.6	655.3	522.0	383.7	260.3	148.5	91.1	52.7
45°	1422.4	1258.5	1087.6	915.5	745.3	605.4	461.4	316.0	198.0	113.6	58.4
42.5°	1567.2	1395.6	1217.9	1034.3	851.2	685.2	536.2	381.7	246.2	135.2	71.6
40°	1737.1	1526.6	1342.4	1150.7	956.7	762.3	606.3	446.6	292.2	162.3	89.6
37.5°	1903.7	1669.3	1459.5	1262.3	1058.1	854.9	673.0	508.5	339.3	201.1	106.7
35°	2069.8	1818.2	1571.3	1367.0	1156.0	942.9	736.3	566.6	391.8	237.9	122.9
32.5°	2228.4	1961.6	1700.3	1465.1	1248.7	1026.0	805.7	620.6	441.3	272.6	138.2
30°	2359.4	2101.2	1824.2	1557.4	1335.3	1105.6	876.7	671.2	487.7	305.0	155.7
27.5°	2476.6	2232.0	1941.2	1658.7	1414.5	1180.0	942.9	718.3	530.8	338.1	181.9
25°	2580.7	2338.8	2053.5	1757.8	1487.8	1248.7	1004.0	762.3	570.0	373.2	206.1
22.5°	2664.2	2431.8	2156.8	1848.7	1555.1	1311.6	1060.4	812.6	605.4	405.2	228.1
20°	2740.2	2516.4	2250.5	1931.7	1624.3	1367.0	1111.9	858.0	637.4	434.1	247.9
17.5°	2865.0	2585.9	2322.6	2008.5	1691.4	1416.4	1157.8	898.3	665.8	459.7	265.6
15°	3231.5	2641.0	2383.6	2075.7	1750.2	1459.5	1197.8	933.6	690.6	482.1	280.9
12.5°	3545.5	2688.2	2435.7	2133.1	1800.3	1496.3	1232.0	963.6	711.6	501.1	294.0
10°	3805.2	2727.1	2478.8	2180.5	1841.6	1526.6	1260.0	988.2	729.0	516.7	304.7
7.5°	4008.9	2757.7	2512.5	2217.5	1873.9	1550.2	1282.0	1007.5	742.5	529.0	313.1
5°	4155.3	2779.6	2536.7	2244.1	1897.1	1567.2	1297.7	1021.3	752.2	537.7	319.1
2.5°	4243.6	2792.8	2551.2	2260.1	1911.0	1577.4	1307.1	1029.6	758.1	542.9	322.7
0°	4273.1	2797.2	2556.1	2265.4	1915.7	1580.8	1310.3	1032.4	760.0	544.7	323.9
-2.5°	4243.6	2792.8	2551.2	2260.1	1911.0	1577.4	1307.1	1029.6	758.1	542.9	322.7
-5°	4155.3	2779.6	2536.7	2244.1	1897.1	1567.2	1297.7	1021.3	752.2	537.7	319.1
-7.5°	4008.9	2757.7	2512.5	2217.5	1873.9	1550.2	1282.0	1007.5	742.5	529.0	313.1
-10°	3805.2	2727.1	2478.8	2180.5	1841.6	1526.6	1260.0	988.2	729.0	516.7	304.7
-12.5°	3545.5	2688.2	2435.7	2133.1	1800.3	1496.3	1232.0	963.6	711.6	501.1	294.0
-15°	3231.5	2641.0	2383.6	2075.7	1750.2	1459.5	1197.8	933.6	690.6	482.1	280.9
-17.5°	2865.0	2585.9	2322.6	2008.5	1691.4	1416.4	1157.8	898.3	665.8	459.7	265.6
-20°	2740.2	2516.4	2250.5	1931.7	1624.3	1367.0	1111.9	858.0	637.4	434.1	247.9



REPORT NUMBER: P731272 (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°	2664.2	2431.8	2156.8	1848.7	1555.1	1311.6	1060.4	812.6	605.4	405.2	228.1
-25°	2580.7	2338.8	2053.5	1757.8	1487.8	1248.7	1004.0	762.3	570.0	373.2	206.1
-27.5°	2476.6	2232.0	1941.2	1658.7	1414.5	1180.0	942.9	718.3	530.8	338.1	181.9
-30°	2359.4	2101.2	1824.2	1557.4	1335.3	1105.6	876.7	671.2	487.7	305.0	155.7
-32.5°	2228.4	1961.6	1700.3	1465.1	1248.7	1026.0	805.7	620.6	441.3	272.6	138.2
-35°	2069.8	1818.2	1571.3	1367.0	1156.0	942.9	736.3	566.6	391.8	237.9	122.9
-37.5°	1903.7	1669.3	1459.5	1262.3	1058.1	854.9	673.0	508.5	339.3	201.1	106.7
-40°	1737.1	1526.6	1342.4	1150.7	956.7	762.3	606.3	446.6	292.2	162.3	89.6
-42.5°	1567.2	1395.6	1217.9	1034.3	851.2	685.2	536.2	381.7	246.2	135.2	71.6
-45°	1422.4	1258.5	1087.6	915.5	745.3	605.4	461.4	316.0	198.0	113.6	58.4
-47.5°	1272.1	1114.5	954.5	792.6	655.3	522.0	383.7	260.3	148.5	91.1	52.7
-50°	1114.5	967.5	818.4	685.5	562.3	434.1	307.5	202.4	122.2	67.8	46.8
-52.5°	954.5	818.4	695.6	582.3	464.5	343.4	241.8	145.9	95.1	55.7	40.6
-55°	792.6	685.5	582.3	474.7	363.6	265.6	174.1	114.7	67.0	48.5	34.6
-57.5°	655.3	562.3	464.5	363.6	273.5	189.9	126.6	82.8	54.2	41.1	31.4
-60°	522.0	434.1	343.4	265.6	189.9	130.6	90.7	57.6	45.6	34.2	28.0
-62.5°	383.7	307.5	241.8	174.1	126.6	90.7	58.8	47.9	36.8	30.3	24.6
-65°	260.3	202.4	145.9	114.7	82.8	57.6	47.9	38.0	31.4	26.3	21.4
-67.5°	148.5	122.2	95.1	67.0	54.2	45.6	36.8	31.4	26.9	22.2	18.8
-70°	91.1	67.8	55.7	48.5	41.1	34.2	30.3	26.3	22.2	19.2	16.2
-72.5°	52.7	46.8	40.6	34.6	31.4	28.0	24.6	21.4	18.8	16.2	13.6
-75°	35.7	32.8	30.2	27.5	24.6	21.9	19.8	17.6	15.4	13.2	11.7
-77.5°	26.8	24.7	22.5	20.7	19.1	17.4	15.6	13.8	12.4	11.2	10.1
-80°	19.3	18.1	16.8	15.5	14.2	12.9	12.0	11.2	10.3	9.4	8.5
-82.5°	13.1	12.5	11.9	11.3	10.7	10.1	9.5	8.9	8.2	7.5	6.7
-85°	9.3	9.0	8.6	8.2	7.8	7.4	6.8	6.2	5.7	5.1	4.4
-87.5°	5.0	4.8	4.5	4.2	4.0	3.7	3.4	3.1	2.8	2.5	2.2
-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°	1.9	1.6	1.3	1.0	0.6	0.3	0.0
85°	3.8	3.2	2.6	1.9	1.3	0.6	0.0
82.5°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
80°	7.6	6.4	5.1	3.8	2.6	1.3	0.0
77.5°	9.0	7.8	6.4	4.8	3.2	1.6	0.0
75°	10.4	9.0	7.6	5.7	3.8	1.9	0.0
72.5°	11.7	10.1	8.5	6.7	4.4	2.2	0.0
70°	13.2	11.2	9.4	7.5	5.1	2.5	0.0
67.5°	15.4	12.4	10.3	8.2	5.7	2.8	0.0
65°	17.6	13.8	11.2	8.9	6.2	3.1	0.0
62.5°	19.8	15.6	12.0	9.5	6.8	3.4	0.0
60°	21.9	17.4	12.9	10.1	7.4	3.7	0.0
57.5°	24.6	19.1	14.2	10.7	7.8	4.0	0.0
55°	27.5	20.7	15.5	11.3	8.2	4.2	0.0
52.5°	30.2	22.5	16.8	11.9	8.6	4.5	0.0
50°	32.8	24.7	18.1	12.5	9.0	4.8	0.0
47.5°	35.7	26.8	19.3	13.1	9.3	5.0	0.0
45°	40.6	28.8	20.5	14.0	9.7	5.2	0.0
42.5°	45.3	30.8	21.6	14.8	10.0	5.5	0.0
40°	49.8	32.6	22.8	15.6	10.3	5.7	0.0
37.5°	54.0	34.4	24.3	16.4	10.6	5.9	0.0
35°	58.0	37.2	25.6	17.1	10.9	6.1	0.0
32.5°	64.5	40.3	26.9	17.8	11.2	6.2	0.0
30°	76.7	43.3	28.0	18.4	11.4	6.4	0.0
27.5°	88.0	46.0	29.1	19.0	11.7	6.6	0.0
25°	98.4	48.5	30.1	19.5	11.9	6.7	0.0
22.5°	107.9	50.8	31.0	20.0	12.1	6.8	0.0
20°	116.4	52.8	31.9	20.4	12.2	7.0	0.0
17.5°	124.0	54.7	32.6	20.8	12.4	7.1	0.0
15°	130.6	56.3	33.2	21.2	12.5	7.1	0.0
12.5°	136.2	57.6	33.8	21.4	12.6	7.2	0.0
10°	140.9	58.7	34.2	21.7	12.7	7.3	0.0
7.5°	144.5	59.6	34.6	21.9	12.8	7.3	0.0
5°	147.0	60.2	34.8	22.0	12.9	7.4	0.0
2.5°	148.6	60.6	35.0	22.1	12.9	7.4	0.0
0°	149.1	60.7	35.0	22.1	12.9	7.4	0.0
-2.5°	148.6	60.6	35.0	22.1	12.9	7.4	0.0
-5°	147.0	60.2	34.8	22.0	12.9	7.4	0.0
-7.5°	144.5	59.6	34.6	21.9	12.8	7.3	0.0
-10°	140.9	58.7	34.2	21.7	12.7	7.3	0.0
-12.5°	136.2	57.6	33.8	21.4	12.6	7.2	0.0
-15°	130.6	56.3	33.2	21.2	12.5	7.1	0.0
-17.5°	124.0	54.7	32.6	20.8	12.4	7.1	0.0
-20°	116.4	52.8	31.9	20.4	12.2	7.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	107.9	50.8	31.0	20.0	12.1	6.8	0.0
-25°	98.4	48.5	30.1	19.5	11.9	6.7	0.0
-27.5°	88.0	46.0	29.1	19.0	11.7	6.6	0.0
-30°	76.7	43.3	28.0	18.4	11.4	6.4	0.0
-32.5°	64.5	40.3	26.9	17.8	11.2	6.2	0.0
-35°	58.0	37.2	25.6	17.1	10.9	6.1	0.0
-37.5°	54.0	34.4	24.3	16.4	10.6	5.9	0.0
-40°	49.8	32.6	22.8	15.6	10.3	5.7	0.0
-42.5°	45.3	30.8	21.6	14.8	10.0	5.5	0.0
-45°	40.6	28.8	20.5	14.0	9.7	5.2	0.0
-47.5°	35.7	26.8	19.3	13.1	9.3	5.0	0.0
-50°	32.8	24.7	18.1	12.5	9.0	4.8	0.0
-52.5°	30.2	22.5	16.8	11.9	8.6	4.5	0.0
-55°	27.5	20.7	15.5	11.3	8.2	4.2	0.0
-57.5°	24.6	19.1	14.2	10.7	7.8	4.0	0.0
-60°	21.9	17.4	12.9	10.1	7.4	3.7	0.0
-62.5°	19.8	15.6	12.0	9.5	6.8	3.4	0.0
-65°	17.6	13.8	11.2	8.9	6.2	3.1	0.0
-67.5°	15.4	12.4	10.3	8.2	5.7	2.8	0.0
-70°	13.2	11.2	9.4	7.5	5.1	2.5	0.0
-72.5°	11.7	10.1	8.5	6.7	4.4	2.2	0.0
-75°	10.4	9.0	7.6	5.7	3.8	1.9	0.0
-77.5°	9.0	7.8	6.4	4.8	3.2	1.6	0.0
-80°	7.6	6.4	5.1	3.8	2.6	1.3	0.0
-82.5°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
-85°	3.8	3.2	2.6	1.9	1.3	0.6	0.0
-87.5°	1.9	1.6	1.3	1.0	0.6	0.3	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

