

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: P731242 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0530N-40-80-3S-HEG**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731242 (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-08-0530N-40-80-3S-HEG  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

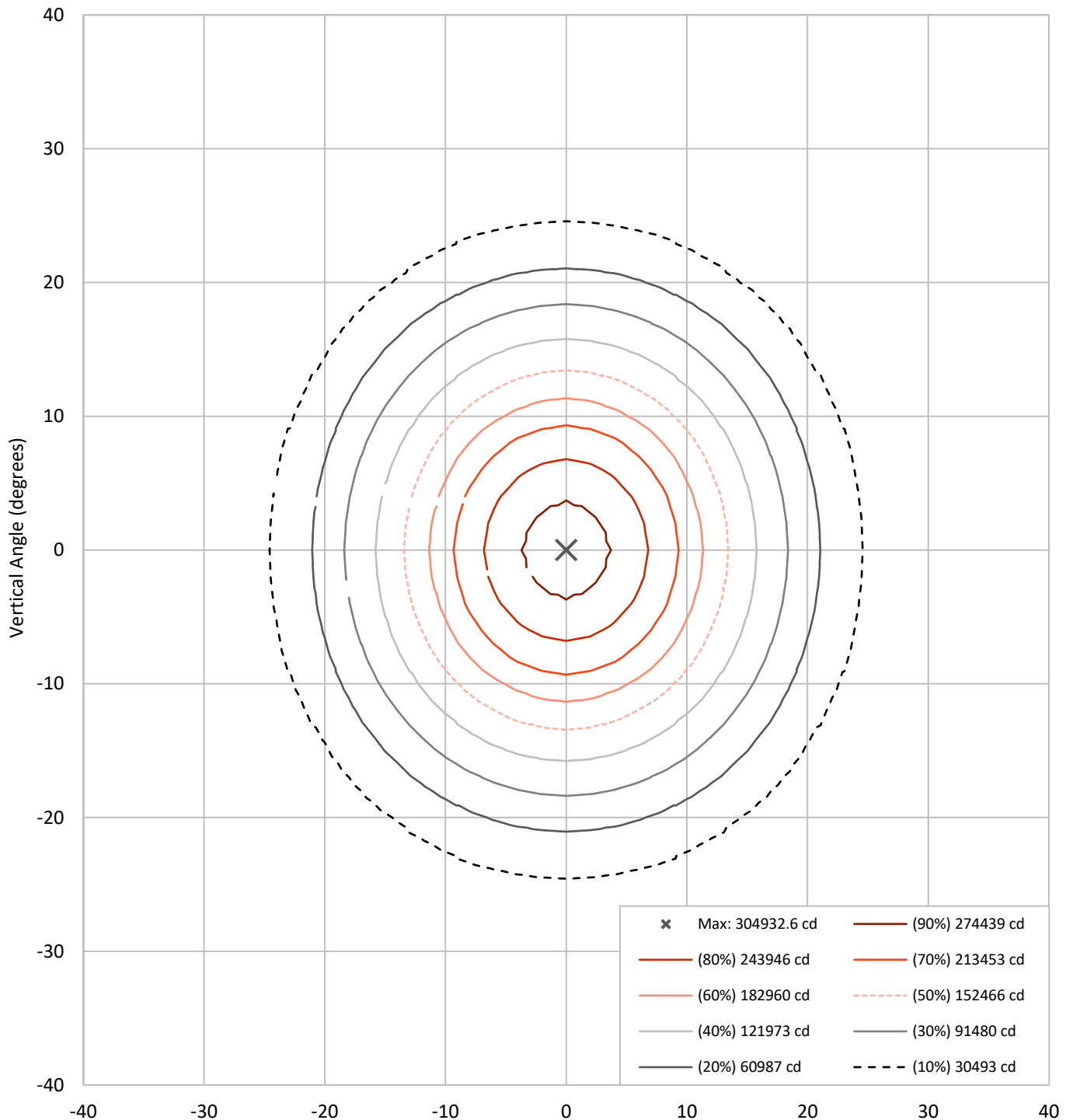
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	82358.2 lumens	Max Intensity:	304932.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	147.1 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:	35709.3 lumens	Field Lumens:	68365.4 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%

Input Watts (W): 559.9  
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





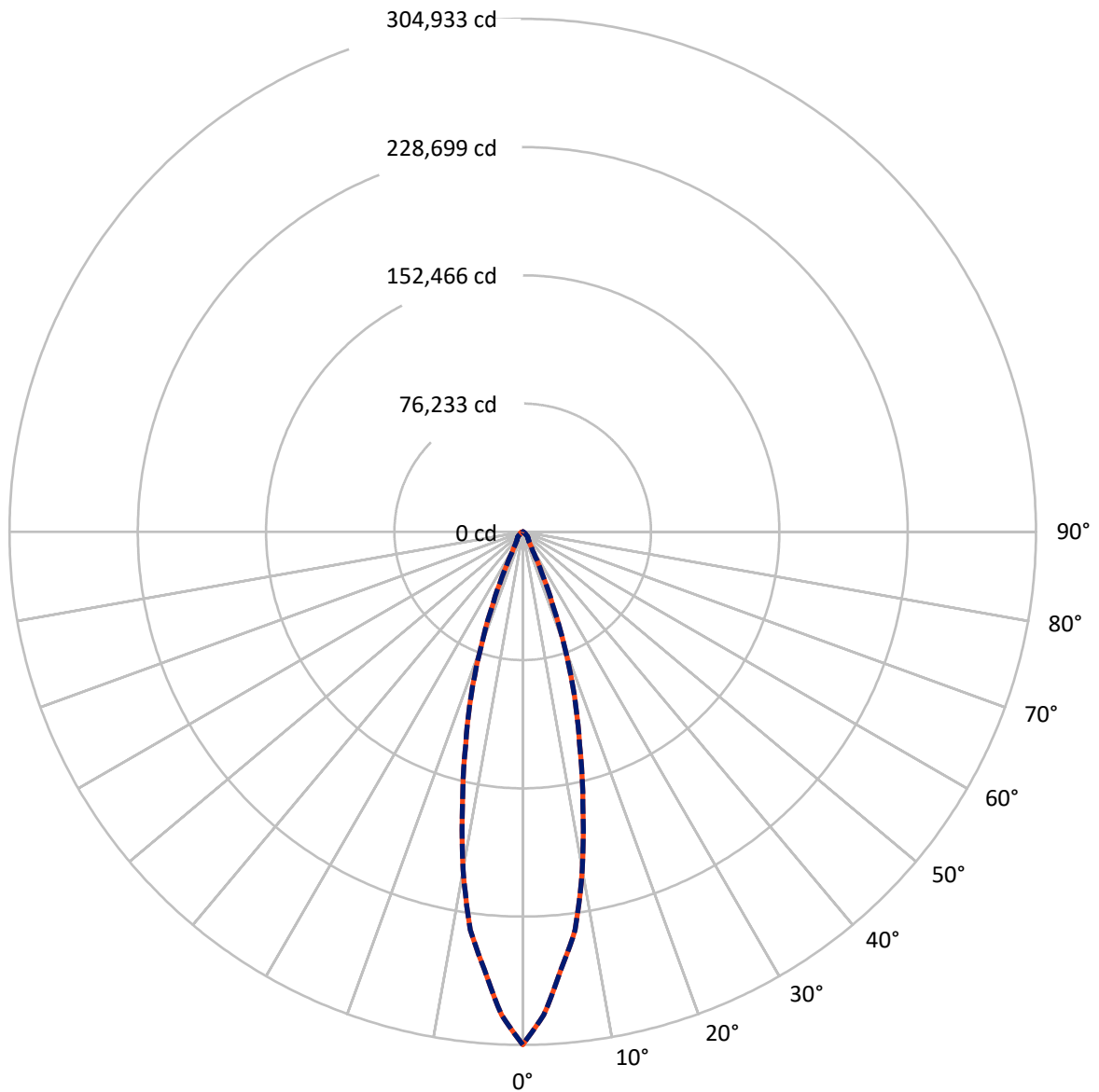
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### Lumen Table

90	0.1	0.7	2.8	7.5	9.9	7.5	2.8	0.7	0.1							
80	0.1	0.7	2.8	7.5	9.9	7.5	2.8	0.7	0.1							
70	0.3	0.4	1.8	5.5	10.7	16.3	20.9	23.4	23.4	20.9	16.3	10.7	5.5	1.8	0.4	0.3
60		1.4	6.4	15.0	25.7	36.7	45.6	50.3	50.3	45.6	36.7	25.7	15.0	6.4	1.4	
50	1.0	3.4	12.3	26.1	43.1	67.9	97.2	114.1	114.1	97.2	67.9	43.1	26.1	12.3	3.4	1.0
40		5.7	18.2	37.3	76.1	125.4	161.3	189.4	189.4	161.3	125.4	76.1	37.3	18.2	5.7	
30	2.2	7.8	23.5	53.4	113.5	179.7	415.5	854.5	854.5	415.5	179.7	113.5	53.4	23.5	7.8	2.2
20		9.4	27.4	72.0	137.2	392.2	1817.7	3639.9	3639.9	1817.7	392.2	137.2	72.0	27.4	9.4	
10	2.8	10.2	29.3	81.8	156.6	786.6	3540.3	6982.2	6982.2	3540.3	786.6	156.6	81.8	29.3	10.2	2.8
0		10.2	29.3	81.8	156.6	786.6	3540.3	6982.2	6982.2	3540.3	786.6	156.6	81.8	29.3	10.2	
-10	2.2	9.4	27.4	72.0	137.2	392.2	1817.7	3639.9	3639.9	1817.7	392.2	137.2	72.0	27.4	9.4	2.2
-20		7.8	23.5	53.4	113.5	179.7	415.5	854.5	854.5	415.5	179.7	113.5	53.4	23.5	7.8	
-30	1.0	5.7	18.2	37.3	76.1	125.4	161.3	189.4	189.4	161.3	125.4	76.1	37.3	18.2	5.7	1.0
-40		3.4	12.3	26.1	43.1	67.9	97.2	114.1	114.1	97.2	67.9	43.1	26.1	12.3	3.4	
-50	0.3	1.4	6.4	15.0	25.7	36.7	45.6	50.3	50.3	45.6	36.7	25.7	15.0	6.4	1.4	0.3
-60		0.4	1.8	5.5	10.7	16.3	20.9	23.4	23.4	20.9	16.3	10.7	5.5	1.8	0.4	
-70	0.1	0.7	2.8	7.5	9.9	7.5	2.8	0.7	0.1							
-80		0.1	0.7	2.8	7.5	9.9	7.5	2.8	0.7	0.1						
-90	0.1	0.7	2.8	7.5	9.9	7.5	2.8	0.7	0.1							

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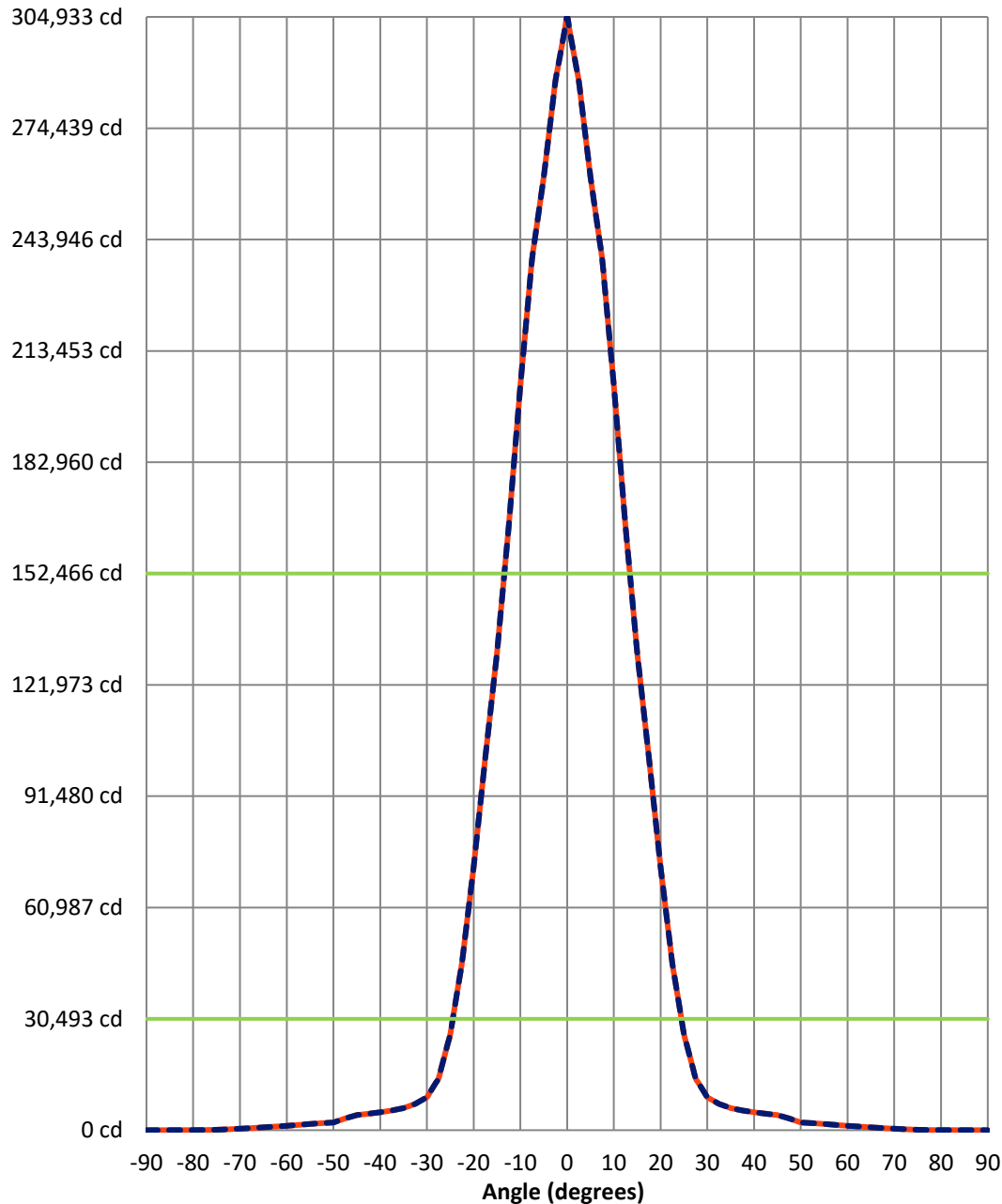
### Luminous Intensity Polar Plot



— 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: 35709.3  
 Efficiency: 43.4%

**Field:**  
 H Angle: 48.9°  
 V Angle: 48.9°  
 Lumens: 68365.4  
 Efficiency: 83.0%

**Spill:**  
 Lumens: 13992.8  
 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	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.3
85°	0.0	0.5	1.0	1.4	1.9	2.4	2.8	3.3	3.8	4.2	4.6
82.5°	0.0	0.7	1.4	2.1	2.9	3.6	4.3	4.9	5.6	6.1	6.6
80°	0.0	1.0	1.9	2.9	3.8	4.7	5.6	6.3	7.0	7.7	8.4
77.5°	0.0	1.2	2.4	3.6	4.7	5.8	6.7	7.6	8.4	9.3	10.4
75°	0.0	1.4	2.8	4.3	5.6	6.7	7.8	8.8	9.9	11.6	13.2
72.5°	0.0	1.7	3.3	4.9	6.3	7.6	8.8	10.2	12.2	14.1	16.1
70°	0.0	1.9	3.8	5.6	7.0	8.4	9.9	12.2	14.4	16.7	19.7
67.5°	0.0	2.1	4.2	6.1	7.7	9.3	11.6	14.1	16.7	20.2	23.6
65°	0.0	2.3	4.6	6.6	8.4	10.4	13.2	16.1	19.7	23.6	28.5
62.5°	0.0	2.5	5.1	7.1	9.0	11.7	14.8	18.5	22.8	27.7	36.0
60°	0.0	2.7	5.5	7.6	9.7	13.0	16.4	21.1	25.7	34.3	43.4
57.5°	0.0	3.0	5.8	8.1	10.7	14.3	18.5	23.6	30.9	40.8	62.3
55°	0.0	3.2	6.1	8.5	11.7	15.6	20.6	26.0	36.5	50.5	86.4
52.5°	0.0	3.3	6.4	9.0	12.6	16.9	22.7	30.6	42.0	71.6	109.9
50°	0.0	3.5	6.7	9.4	13.6	18.5	24.7	35.2	51.0	92.1	152.4
47.5°	0.0	3.7	7.0	9.9	14.5	20.1	26.8	39.7	68.6	111.9	196.0
45°	0.0	3.9	7.2	10.5	15.4	21.7	30.5	44.0	85.5	149.1	238.0
42.5°	0.0	4.1	7.5	11.1	16.2	23.1	34.1	53.9	101.8	185.4	287.5
40°	0.0	4.2	7.7	11.7	17.2	24.5	37.4	67.5	122.2	220.0	336.3
37.5°	0.0	4.4	8.0	12.3	18.2	25.9	40.6	80.4	151.5	255.5	382.9
35°	0.0	4.5	8.2	12.8	19.2	27.9	43.7	92.6	179.2	295.0	426.7
32.5°	0.0	4.6	8.4	13.3	20.2	30.3	48.6	104.1	205.2	332.3	467.3
30°	0.0	4.8	8.6	13.8	21.1	32.5	57.8	117.3	229.7	367.3	505.5
27.5°	0.0	4.9	8.7	14.2	21.9	34.6	66.3	137.0	254.6	399.8	540.9
25°	0.0	5.0	8.9	14.7	22.6	36.5	74.1	155.2	281.0	429.2	574.0
22.5°	0.0	5.1	9.1	15.0	23.3	38.2	81.3	171.8	305.1	455.9	611.9
20°	0.0	5.2	9.2	15.3	23.9	39.8	87.7	186.7	326.9	480.0	646.1
17.5°	0.0	5.2	9.3	15.6	24.5	41.1	93.4	200.0	346.2	501.4	676.5
15°	0.0	5.3	9.4	15.9	25.0	42.3	98.4	211.6	363.0	520.0	703.0
12.5°	0.0	5.4	9.5	16.1	25.4	43.4	102.6	221.4	377.4	535.9	725.7
10°	0.0	5.4	9.6	16.3	25.7	44.2	106.1	229.5	389.1	549.0	744.2
7.5°	0.0	5.5	9.6	16.4	26.0	44.9	108.8	235.8	398.3	559.1	758.8
5°	0.0	5.5	9.7	16.5	26.2	45.3	110.7	240.3	404.9	566.4	769.2
2.5°	0.0	5.5	9.7	16.6	26.3	45.6	111.9	243.0	408.9	570.8	775.4
0°	0.0	5.5	9.7	16.6	26.3	45.6	111.9	243.0	408.9	570.8	775.4
-2.5°	0.0	5.5	9.7	16.6	26.3	45.6	111.9	243.0	408.9	570.8	775.4
-5°	0.0	5.5	9.7	16.5	26.2	45.3	110.7	240.3	404.9	566.4	769.2
-7.5°	0.0	5.5	9.6	16.4	26.0	44.9	108.8	235.8	398.3	559.1	758.8
-10°	0.0	5.4	9.6	16.3	25.7	44.2	106.1	229.5	389.1	549.0	744.2
-12.5°	0.0	5.4	9.5	16.1	25.4	43.4	102.6	221.4	377.4	535.9	725.7
-15°	0.0	5.3	9.4	15.9	25.0	42.3	98.4	211.6	363.0	520.0	703.0
-17.5°	0.0	5.2	9.3	15.6	24.5	41.1	93.4	200.0	346.2	501.4	676.5
-20°	0.0	5.2	9.2	15.3	23.9	39.8	87.7	186.7	326.9	480.0	646.1



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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	5.1	9.1	15.0	23.3	38.2	81.3	171.8	305.1	455.9	611.9
-25°	0.0	5.0	8.9	14.7	22.6	36.5	74.1	155.2	281.0	429.2	574.0
-27.5°	0.0	4.9	8.7	14.2	21.9	34.6	66.3	137.0	254.6	399.8	540.9
-30°	0.0	4.8	8.6	13.8	21.1	32.5	57.8	117.3	229.7	367.3	505.5
-32.5°	0.0	4.6	8.4	13.3	20.2	30.3	48.6	104.1	205.2	332.3	467.3
-35°	0.0	4.5	8.2	12.8	19.2	27.9	43.7	92.6	179.2	295.0	426.7
-37.5°	0.0	4.4	8.0	12.3	18.2	25.9	40.6	80.4	151.5	255.5	382.9
-40°	0.0	4.2	7.7	11.7	17.2	24.5	37.4	67.5	122.2	220.0	336.3
-42.5°	0.0	4.1	7.5	11.1	16.2	23.1	34.1	53.9	101.8	185.4	287.5
-45°	0.0	3.9	7.2	10.5	15.4	21.7	30.5	44.0	85.5	149.1	238.0
-47.5°	0.0	3.7	7.0	9.9	14.5	20.1	26.8	39.7	68.6	111.9	196.0
-50°	0.0	3.5	6.7	9.4	13.6	18.5	24.7	35.2	51.0	92.1	152.4
-52.5°	0.0	3.3	6.4	9.0	12.6	16.9	22.7	30.6	42.0	71.6	109.9
-55°	0.0	3.2	6.1	8.5	11.7	15.6	20.6	26.0	36.5	50.5	86.4
-57.5°	0.0	3.0	5.8	8.1	10.7	14.3	18.5	23.6	30.9	40.8	62.3
-60°	0.0	2.7	5.5	7.6	9.7	13.0	16.4	21.1	25.7	34.3	43.4
-62.5°	0.0	2.5	5.1	7.1	9.0	11.7	14.8	18.5	22.8	27.7	36.0
-65°	0.0	2.3	4.6	6.6	8.4	10.4	13.2	16.1	19.7	23.6	28.5
-67.5°	0.0	2.1	4.2	6.1	7.7	9.3	11.6	14.1	16.7	20.2	23.6
-70°	0.0	1.9	3.8	5.6	7.0	8.4	9.9	12.2	14.4	16.7	19.7
-72.5°	0.0	1.7	3.3	4.9	6.3	7.6	8.8	10.2	12.2	14.1	16.1
-75°	0.0	1.4	2.8	4.3	5.6	6.7	7.8	8.8	9.9	11.6	13.2
-77.5°	0.0	1.2	2.4	3.6	4.7	5.8	6.7	7.6	8.4	9.3	10.4
-80°	0.0	1.0	1.9	2.9	3.8	4.7	5.6	6.3	7.0	7.7	8.4
-82.5°	0.0	0.7	1.4	2.1	2.9	3.6	4.3	4.9	5.6	6.1	6.6
-85°	0.0	0.5	1.0	1.4	1.9	2.4	2.8	3.3	3.8	4.2	4.6
-87.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.3
-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°	2.5	2.7	3.0	3.2	3.3	3.5	3.7	3.9	4.1	4.2	4.4
85°	5.1	5.5	5.8	6.1	6.4	6.7	7.0	7.2	7.5	7.7	8.0
82.5°	7.1	7.6	8.1	8.5	9.0	9.4	9.9	10.5	11.1	11.7	12.3
80°	9.0	9.7	10.7	11.7	12.6	13.6	14.5	15.4	16.2	17.2	18.2
77.5°	11.7	13.0	14.3	15.6	16.9	18.5	20.1	21.7	23.1	24.5	25.9
75°	14.8	16.4	18.5	20.6	22.7	24.7	26.8	30.5	34.1	37.4	40.6
72.5°	18.5	21.1	23.6	26.0	30.6	35.2	39.7	44.0	53.9	67.5	80.4
70°	22.8	25.7	30.9	36.5	42.0	51.0	68.6	85.5	101.8	122.2	151.5
67.5°	27.7	34.3	40.8	50.5	71.6	92.1	111.9	149.1	185.4	220.0	255.5
65°	36.0	43.4	62.3	86.4	109.9	152.4	196.0	238.0	287.5	336.3	382.9
62.5°	44.2	68.3	95.4	131.1	182.1	231.6	288.9	347.5	403.8	456.6	506.8
60°	68.3	98.4	143.0	200.0	258.6	326.9	393.1	455.9	516.0	574.0	643.8
57.5°	95.4	143.0	206.0	273.8	349.8	423.5	493.5	561.2	641.0	720.5	796.8
55°	131.1	200.0	273.8	357.5	438.5	516.2	596.9	689.5	778.9	866.6	950.6
52.5°	182.1	258.6	349.8	438.5	523.8	616.3	718.8	819.1	917.1	1010.9	1099.1
50°	231.6	326.9	423.5	516.2	616.3	728.6	839.3	947.7	1051.0	1149.6	1257.1
47.5°	288.9	393.1	493.5	596.9	718.8	839.3	958.0	1071.1	1180.1	1308.1	1433.6
45°	347.5	455.9	561.2	689.5	819.1	947.7	1071.1	1190.4	1333.8	1474.0	1613.7
42.5°	403.8	516.0	641.0	778.9	917.1	1051.0	1180.1	1333.8	1487.6	1641.5	1775.8
40°	456.6	574.0	720.5	866.6	1010.9	1149.6	1308.1	1474.0	1641.5	1787.6	1918.5
37.5°	506.8	643.8	796.8	950.6	1099.1	1257.1	1433.6	1613.7	1775.8	1918.5	2034.3
35°	554.5	710.0	870.6	1029.4	1183.2	1369.2	1558.6	1740.7	1894.5	2024.2	2343.2
32.5°	606.7	772.7	940.4	1103.3	1280.4	1477.2	1678.1	1847.0	1993.8	2216.0	2994.8
30°	660.2	832.6	1005.5	1172.8	1373.7	1582.3	1776.8	1943.9	2083.3	2800.4	3547.0
27.5°	710.0	888.6	1065.2	1249.1	1461.8	1680.9	1865.1	2022.6	2480.7	3329.2	4033.4
25°	756.1	940.4	1120.4	1323.7	1546.4	1761.3	1943.5	2096.0	2963.7	3756.2	4280.2
22.5°	798.6	987.7	1171.0	1392.1	1624.2	1831.3	2006.3	2457.5	3376.9	4141.5	4454.7
20°	837.4	1029.4	1223.1	1454.7	1694.7	1895.0	2063.5	2836.1	3713.7	4290.4	4621.7
17.5°	871.9	1066.6	1273.7	1512.5	1749.1	1947.4	2157.6	3176.1	4016.9	4424.7	4775.8
15°	902.0	1099.1	1318.0	1563.1	1795.0	1988.9	2433.5	3430.2	4195.6	4545.7	4913.4
12.5°	927.7	1126.8	1355.7	1606.4	1834.3	2024.4	2670.0	3642.0	4289.9	4654.4	5058.1
10°	948.9	1149.6	1386.8	1642.0	1866.7	2053.7	2865.5	3817.3	4368.0	4744.7	5178.6
7.5°	965.4	1167.4	1411.2	1669.9	1892.0	2076.7	3018.9	3955.1	4429.5	4815.9	5273.7
5°	977.2	1180.1	1428.6	1689.9	1910.3	2093.2	3129.2	4054.2	4473.8	4867.2	5342.4
2.5°	984.3	1187.8	1439.1	1702.0	1921.2	2103.2	3195.7	4113.9	4500.6	4898.2	5383.9
0°	986.7	1190.4	1442.6	1706.0	1924.9	2106.5	3217.9	4133.9	4509.5	4908.6	5397.8
-2.5°	984.3	1187.8	1439.1	1702.0	1921.2	2103.2	3195.7	4113.9	4500.6	4898.2	5383.9
-5°	977.2	1180.1	1428.6	1689.9	1910.3	2093.2	3129.2	4054.2	4473.8	4867.2	5342.4
-7.5°	965.4	1167.4	1411.2	1669.9	1892.0	2076.7	3018.9	3955.1	4429.5	4815.9	5273.7
-10°	948.9	1149.6	1386.8	1642.0	1866.7	2053.7	2865.5	3817.3	4368.0	4744.7	5178.6
-12.5°	927.7	1126.8	1355.7	1606.4	1834.3	2024.4	2670.0	3642.0	4289.9	4654.4	5058.1
-15°	902.0	1099.1	1318.0	1563.1	1795.0	1988.9	2433.5	3430.2	4195.6	4545.7	4913.4
-17.5°	871.9	1066.6	1273.7	1512.5	1749.1	1947.4	2157.6	3176.1	4016.9	4424.7	4775.8
-20°	837.4	1029.4	1223.1	1454.7	1694.7	1895.0	2063.5	2836.1	3713.7	4290.4	4621.7



REPORT NUMBER: P731242 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	798.6	987.7	1171.0	1392.1	1624.2	1831.3	2006.3	2457.5	3376.9	4141.5	4454.7
-25°	756.1	940.4	1120.4	1323.7	1546.4	1761.3	1943.5	2096.0	2963.7	3756.2	4280.2
-27.5°	710.0	888.6	1065.2	1249.1	1461.8	1680.9	1865.1	2022.6	2480.7	3329.2	4033.4
-30°	660.2	832.6	1005.5	1172.8	1373.7	1582.3	1776.8	1943.9	2083.3	2800.4	3547.0
-32.5°	606.7	772.7	940.4	1103.3	1280.4	1477.2	1678.1	1847.0	1993.8	2216.0	2994.8
-35°	554.5	710.0	870.6	1029.4	1183.2	1369.2	1558.6	1740.7	1894.5	2024.2	2343.2
-37.5°	506.8	643.8	796.8	950.6	1099.1	1257.1	1433.6	1613.7	1775.8	1918.5	2034.3
-40°	456.6	574.0	720.5	866.6	1010.9	1149.6	1308.1	1474.0	1641.5	1787.6	1918.5
-42.5°	403.8	516.0	641.0	778.9	917.1	1051.0	1180.1	1333.8	1487.6	1641.5	1775.8
-45°	347.5	455.9	561.2	689.5	819.1	947.7	1071.1	1190.4	1333.8	1474.0	1613.7
-47.5°	288.9	393.1	493.5	596.9	718.8	839.3	958.0	1071.1	1180.1	1308.1	1433.6
-50°	231.6	326.9	423.5	516.2	616.3	728.6	839.3	947.7	1051.0	1149.6	1257.1
-52.5°	182.1	258.6	349.8	438.5	523.8	616.3	718.8	819.1	917.1	1010.9	1099.1
-55°	131.1	200.0	273.8	357.5	438.5	516.2	596.9	689.5	778.9	866.6	950.6
-57.5°	95.4	143.0	206.0	273.8	349.8	423.5	493.5	561.2	641.0	720.5	796.8
-60°	68.3	98.4	143.0	200.0	258.6	326.9	393.1	455.9	516.0	574.0	643.8
-62.5°	44.2	68.3	95.4	131.1	182.1	231.6	288.9	347.5	403.8	456.6	506.8
-65°	36.0	43.4	62.3	86.4	109.9	152.4	196.0	238.0	287.5	336.3	382.9
-67.5°	27.7	34.3	40.8	50.5	71.6	92.1	111.9	149.1	185.4	220.0	255.5
-70°	22.8	25.7	30.9	36.5	42.0	51.0	68.6	85.5	101.8	122.2	151.5
-72.5°	18.5	21.1	23.6	26.0	30.6	35.2	39.7	44.0	53.9	67.5	80.4
-75°	14.8	16.4	18.5	20.6	22.7	24.7	26.8	30.5	34.1	37.4	40.6
-77.5°	11.7	13.0	14.3	15.6	16.9	18.5	20.1	21.7	23.1	24.5	25.9
-80°	9.0	9.7	10.7	11.7	12.6	13.6	14.5	15.4	16.2	17.2	18.2
-82.5°	7.1	7.6	8.1	8.5	9.0	9.4	9.9	10.5	11.1	11.7	12.3
-85°	5.1	5.5	5.8	6.1	6.4	6.7	7.0	7.2	7.5	7.7	8.0
-87.5°	2.5	2.7	3.0	3.2	3.3	3.5	3.7	3.9	4.1	4.2	4.4
-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°	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.2	5.3	5.4	5.4
85°	8.2	8.4	8.6	8.7	8.9	9.1	9.2	9.3	9.4	9.5	9.6
82.5°	12.8	13.3	13.8	14.2	14.7	15.0	15.3	15.6	15.9	16.1	16.3
80°	19.2	20.2	21.1	21.9	22.6	23.3	23.9	24.5	25.0	25.4	25.7
77.5°	27.9	30.3	32.5	34.6	36.5	38.2	39.8	41.1	42.3	43.4	44.2
75°	43.7	48.6	57.8	66.3	74.1	81.3	87.7	93.4	98.4	102.6	106.1
72.5°	92.6	104.1	117.3	137.0	155.2	171.8	186.7	200.0	211.6	221.4	229.5
70°	179.2	205.2	229.7	254.6	281.0	305.1	326.9	346.2	363.0	377.4	389.1
67.5°	295.0	332.3	367.3	399.8	429.2	455.9	480.0	501.4	520.0	535.9	549.0
65°	426.7	467.3	505.5	540.9	574.0	611.9	646.1	676.5	703.0	725.7	744.2
62.5°	554.5	606.7	660.2	710.0	756.1	798.6	837.4	871.9	902.0	927.7	948.9
60°	710.0	772.7	832.6	888.6	940.4	987.7	1029.4	1066.6	1099.1	1126.8	1149.6
57.5°	870.6	940.4	1005.5	1065.2	1120.4	1171.0	1223.1	1273.7	1318.0	1355.7	1386.8
55°	1029.4	1103.3	1172.8	1249.1	1323.7	1392.1	1454.7	1512.5	1563.1	1606.4	1642.0
52.5°	1183.2	1280.4	1373.7	1461.8	1546.4	1624.2	1694.7	1749.1	1795.0	1834.3	1866.7
50°	1369.2	1477.2	1582.3	1680.9	1761.3	1831.3	1895.0	1947.4	1988.9	2024.4	2053.7
47.5°	1558.6	1678.1	1776.8	1865.1	1943.5	2006.3	2063.5	2157.6	2433.5	2670.0	2865.5
45°	1740.7	1847.0	1943.9	2022.6	2096.0	2457.5	2836.1	3176.1	3430.2	3642.0	3817.3
42.5°	1894.5	1993.8	2083.3	2480.7	2963.7	3376.9	3713.7	4016.9	4195.6	4289.9	4368.0
40°	2024.2	2216.0	2800.4	3329.2	3756.2	4141.5	4290.4	4424.7	4545.7	4654.4	4744.7
37.5°	2343.2	2994.8	3547.0	4033.4	4280.2	4454.7	4621.7	4775.8	4913.4	5058.1	5178.6
35°	3060.1	3657.1	4161.9	4374.6	4579.2	4778.1	4973.5	5177.5	5359.0	5555.0	5729.4
32.5°	3657.1	4185.2	4422.3	4657.3	4884.8	5140.8	5382.6	5670.3	5931.6	6245.5	6584.5
30°	4161.9	4422.3	4683.6	4945.8	5243.2	5564.2	5909.6	6364.9	6869.9	7369.4	7948.4
27.5°	4374.6	4657.3	4945.8	5277.7	5659.0	6063.5	6725.2	7405.1	8261.6	9012.9	10819.4
25°	4579.2	4884.8	5243.2	5659.0	6151.9	6908.8	7851.8	8878.5	11281.2	13627.0	17545.6
22.5°	4778.1	5140.8	5564.2	6063.5	6908.8	8002.9	9524.5	12691.9	17459.6	23478.9	30059.6
20°	4973.5	5382.6	5909.6	6725.2	7851.8	9524.5	13170.4	19816.5	27737.2	38381.5	48207.5
17.5°	5177.5	5670.3	6364.9	7405.1	8878.5	12691.9	19816.5	29771.7	42695.9	57438.8	71263.4
15°	5359.0	5931.6	6869.9	8261.6	11281.2	17459.6	27737.2	42695.9	60605.1	78881.9	96515.2
12.5°	5555.0	6245.5	7369.4	9012.9	13627.0	23478.9	38381.5	57438.8	78881.9	100798.0	119773.1
10°	5729.4	6584.5	7948.4	10819.4	17545.6	30059.6	48207.5	71263.4	96515.2	119773.1	142409.4
7.5°	5867.3	6853.4	8409.2	12268.2	21296.0	36769.4	58338.7	84164.1	110893.2	136669.7	165613.0
5°	5967.2	7048.4	8744.3	13325.4	24044.9	41716.0	65865.6	93936.4	121662.6	151710.7	184816.8
2.5°	6027.6	7166.7	8947.9	13969.2	25724.2	44750.7	70510.2	100015.9	128443.2	161804.1	198911.8
0°	6047.8	7206.3	9016.2	14185.4	26289.2	45774.0	72081.2	102081.6	130762.8	165285.3	203984.5
-2.5°	6027.6	7166.7	8947.9	13969.2	25724.2	44750.7	70510.2	100015.9	128443.2	161804.1	198911.8
-5°	5967.2	7048.4	8744.3	13325.4	24044.9	41716.0	65865.6	93936.4	121662.6	151710.7	184816.8
-7.5°	5867.3	6853.4	8409.2	12268.2	21296.0	36769.4	58338.7	84164.1	110893.2	136669.7	165613.0
-10°	5729.4	6584.5	7948.4	10819.4	17545.6	30059.6	48207.5	71263.4	96515.2	119773.1	142409.4
-12.5°	5555.0	6245.5	7369.4	9012.9	13627.0	23478.9	38381.5	57438.8	78881.9	100798.0	119773.1
-15°	5359.0	5931.6	6869.9	8261.6	11281.2	17459.6	27737.2	42695.9	60605.1	78881.9	96515.2
-17.5°	5177.5	5670.3	6364.9	7405.1	8878.5	12691.9	19816.5	29771.7	42695.9	57438.8	71263.4
-20°	4973.5	5382.6	5909.6	6725.2	7851.8	9524.5	13170.4	19816.5	27737.2	38381.5	48207.5



REPORT NUMBER: P731242 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4778.1	5140.8	5564.2	6063.5	6908.8	8002.9	9524.5	12691.9	17459.6	23478.9	30059.6
-25°	4579.2	4884.8	5243.2	5659.0	6151.9	6908.8	7851.8	8878.5	11281.2	13627.0	17545.6
-27.5°	4374.6	4657.3	4945.8	5277.7	5659.0	6063.5	6725.2	7405.1	8261.6	9012.9	10819.4
-30°	4161.9	4422.3	4683.6	4945.8	5243.2	5564.2	5909.6	6364.9	6869.9	7369.4	7948.4
-32.5°	3657.1	4185.2	4422.3	4657.3	4884.8	5140.8	5382.6	5670.3	5931.6	6245.5	6584.5
-35°	3060.1	3657.1	4161.9	4374.6	4579.2	4778.1	4973.5	5177.5	5359.0	5555.0	5729.4
-37.5°	2343.2	2994.8	3547.0	4033.4	4280.2	4454.7	4621.7	4775.8	4913.4	5058.1	5178.6
-40°	2024.2	2216.0	2800.4	3329.2	3756.2	4141.5	4290.4	4424.7	4545.7	4654.4	4744.7
-42.5°	1894.5	1993.8	2083.3	2480.7	2963.7	3376.9	3713.7	4016.9	4195.6	4289.9	4368.0
-45°	1740.7	1847.0	1943.9	2022.6	2096.0	2457.5	2836.1	3176.1	3430.2	3642.0	3817.3
-47.5°	1558.6	1678.1	1776.8	1865.1	1943.5	2006.3	2063.5	2157.6	2433.5	2670.0	2865.5
-50°	1369.2	1477.2	1582.3	1680.9	1761.3	1831.3	1895.0	1947.4	1988.9	2024.4	2053.7
-52.5°	1183.2	1280.4	1373.7	1461.8	1546.4	1624.2	1694.7	1749.1	1795.0	1834.3	1866.7
-55°	1029.4	1103.3	1172.8	1249.1	1323.7	1392.1	1454.7	1512.5	1563.1	1606.4	1642.0
-57.5°	870.6	940.4	1005.5	1065.2	1120.4	1171.0	1223.1	1273.7	1318.0	1355.7	1386.8
-60°	710.0	772.7	832.6	888.6	940.4	987.7	1029.4	1066.6	1099.1	1126.8	1149.6
-62.5°	554.5	606.7	660.2	710.0	756.1	798.6	837.4	871.9	902.0	927.7	948.9
-65°	426.7	467.3	505.5	540.9	574.0	611.9	646.1	676.5	703.0	725.7	744.2
-67.5°	295.0	332.3	367.3	399.8	429.2	455.9	480.0	501.4	520.0	535.9	549.0
-70°	179.2	205.2	229.7	254.6	281.0	305.1	326.9	346.2	363.0	377.4	389.1
-72.5°	92.6	104.1	117.3	137.0	155.2	171.8	186.7	200.0	211.6	221.4	229.5
-75°	43.7	48.6	57.8	66.3	74.1	81.3	87.7	93.4	98.4	102.6	106.1
-77.5°	27.9	30.3	32.5	34.6	36.5	38.2	39.8	41.1	42.3	43.4	44.2
-80°	19.2	20.2	21.1	21.9	22.6	23.3	23.9	24.5	25.0	25.4	25.7
-82.5°	12.8	13.3	13.8	14.2	14.7	15.0	15.3	15.6	15.9	16.1	16.3
-85°	8.2	8.4	8.6	8.7	8.9	9.1	9.2	9.3	9.4	9.5	9.6
-87.5°	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.2	5.3	5.4	5.4
-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: P731242 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-3S-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°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.4	5.3	5.2
85°	9.6	9.7	9.7	9.7	9.7	9.7	9.6	9.6	9.5	9.4	9.3
82.5°	16.4	16.5	16.6	16.6	16.6	16.5	16.4	16.3	16.1	15.9	15.6
80°	26.0	26.2	26.3	26.3	26.3	26.2	26.0	25.7	25.4	25.0	24.5
77.5°	44.9	45.3	45.6	45.7	45.6	45.3	44.9	44.2	43.4	42.3	41.1
75°	108.8	110.7	111.9	112.3	111.9	110.7	108.8	106.1	102.6	98.4	93.4
72.5°	235.8	240.3	243.0	243.9	243.0	240.3	235.8	229.5	221.4	211.6	200.0
70°	398.3	404.9	408.9	410.2	408.9	404.9	398.3	389.1	377.4	363.0	346.2
67.5°	559.1	566.4	570.8	572.3	570.8	566.4	559.1	549.0	535.9	520.0	501.4
65°	758.8	769.2	775.4	777.5	775.4	769.2	758.8	744.2	725.7	703.0	676.5
62.5°	965.4	977.2	984.3	986.7	984.3	977.2	965.4	948.9	927.7	902.0	871.9
60°	1167.4	1180.1	1187.8	1190.4	1187.8	1180.1	1167.4	1149.6	1126.8	1099.1	1066.6
57.5°	1411.2	1428.6	1439.1	1442.6	1439.1	1428.6	1411.2	1386.8	1355.7	1318.0	1273.7
55°	1669.9	1689.9	1702.0	1706.0	1702.0	1689.9	1669.9	1642.0	1606.4	1563.1	1512.5
52.5°	1892.0	1910.3	1921.2	1924.9	1921.2	1910.3	1892.0	1866.7	1834.3	1795.0	1749.1
50°	2076.7	2093.2	2103.2	2106.5	2103.2	2093.2	2076.7	2053.7	2024.4	1988.9	1947.4
47.5°	3018.9	3129.2	3195.7	3217.9	3195.7	3129.2	3018.9	2865.5	2670.0	2433.5	2157.6
45°	3955.1	4054.2	4113.9	4133.9	4113.9	4054.2	3955.1	3817.3	3642.0	3430.2	3176.1
42.5°	4429.5	4473.8	4500.6	4509.5	4500.6	4473.8	4429.5	4368.0	4289.9	4195.6	4016.9
40°	4815.9	4867.2	4898.2	4908.6	4898.2	4867.2	4815.9	4744.7	4654.4	4545.7	4424.7
37.5°	5273.7	5342.4	5383.9	5397.8	5383.9	5342.4	5273.7	5178.6	5058.1	4913.4	4775.8
35°	5867.3	5967.2	6027.6	6047.8	6027.6	5967.2	5867.3	5729.4	5555.0	5359.0	5177.5
32.5°	6853.4	7048.4	7166.7	7206.3	7166.7	7048.4	6853.4	6584.5	6245.5	5931.6	5670.3
30°	8409.2	8744.3	8947.9	9016.2	8947.9	8744.3	8409.2	7948.4	7369.4	6869.9	6364.9
27.5°	12268.2	13325.4	13969.2	14185.4	13969.2	13325.4	12268.2	10819.4	9012.9	8261.6	7405.1
25°	21296.0	24044.9	25724.2	26289.2	25724.2	24044.9	21296.0	17545.6	13627.0	11281.2	8878.5
22.5°	36769.4	41716.0	44750.7	45774.0	44750.7	41716.0	36769.4	30059.6	23478.9	17459.6	12691.9
20°	58338.7	65865.6	70510.2	72081.2	70510.2	65865.6	58338.7	48207.5	38381.5	27737.2	19816.5
17.5°	84164.1	93936.4	100015.9	102081.6	100015.9	93936.4	84164.1	71263.4	57438.8	42695.9	29771.7
15°	110893.2	121662.6	128443.2	130762.8	128443.2	121662.6	110893.2	96515.2	78881.9	60605.1	42695.9
12.5°	136669.7	151710.7	161804.1	165285.3	161804.1	151710.7	136669.7	119773.1	100798.0	78881.9	57438.8
10°	165613.0	184816.8	198911.8	203984.5	198911.8	184816.8	165613.0	142409.4	119773.1	96515.2	71263.4
7.5°	194137.9	220062.5	234402.6	238660.1	234402.6	220062.5	194137.9	165613.0	136669.7	110893.2	84164.1
5°	220062.5	243234.0	256497.6	261086.3	256497.6	243234.0	220062.5	184816.8	151710.7	121662.6	93936.4
2.5°	234402.6	256497.6	274908.7	287401.9	274908.7	256497.6	234402.6	198911.8	161804.1	128443.2	100015.9
0°	238660.1	261086.3	287401.9	304932.6	287401.9	261086.3	238660.1	203984.5	165285.3	130762.8	102081.6
-2.5°	234402.6	256497.6	274908.7	287401.9	274908.7	256497.6	234402.6	198911.8	161804.1	128443.2	100015.9
-5°	220062.5	243234.0	256497.6	261086.3	256497.6	243234.0	220062.5	184816.8	151710.7	121662.6	93936.4
-7.5°	194137.9	220062.5	234402.6	238660.1	234402.6	220062.5	194137.9	165613.0	136669.7	110893.2	84164.1
-10°	165613.0	184816.8	198911.8	203984.5	198911.8	184816.8	165613.0	142409.4	119773.1	96515.2	71263.4
-12.5°	136669.7	151710.7	161804.1	165285.3	161804.1	151710.7	136669.7	119773.1	100798.0	78881.9	57438.8
-15°	110893.2	121662.6	128443.2	130762.8	128443.2	121662.6	110893.2	96515.2	78881.9	60605.1	42695.9
-17.5°	84164.1	93936.4	100015.9	102081.6	100015.9	93936.4	84164.1	71263.4	57438.8	42695.9	29771.7
-20°	58338.7	65865.6	70510.2	72081.2	70510.2	65865.6	58338.7	48207.5	38381.5	27737.2	19816.5



REPORT NUMBER: P731242 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	36769.4	41716.0	44750.7	45774.0	44750.7	41716.0	36769.4	30059.6	23478.9	17459.6	12691.9
-25°	21296.0	24044.9	25724.2	26289.2	25724.2	24044.9	21296.0	17545.6	13627.0	11281.2	8878.5
-27.5°	12268.2	13325.4	13969.2	14185.4	13969.2	13325.4	12268.2	10819.4	9012.9	8261.6	7405.1
-30°	8409.2	8744.3	8947.9	9016.2	8947.9	8744.3	8409.2	7948.4	7369.4	6869.9	6364.9
-32.5°	6853.4	7048.4	7166.7	7206.3	7166.7	7048.4	6853.4	6584.5	6245.5	5931.6	5670.3
-35°	5867.3	5967.2	6027.6	6047.8	6027.6	5967.2	5867.3	5729.4	5555.0	5359.0	5177.5
-37.5°	5273.7	5342.4	5383.9	5397.8	5383.9	5342.4	5273.7	5178.6	5058.1	4913.4	4775.8
-40°	4815.9	4867.2	4898.2	4908.6	4898.2	4867.2	4815.9	4744.7	4654.4	4545.7	4424.7
-42.5°	4429.5	4473.8	4500.6	4509.5	4500.6	4473.8	4429.5	4368.0	4289.9	4195.6	4016.9
-45°	3955.1	4054.2	4113.9	4133.9	4113.9	4054.2	3955.1	3817.3	3642.0	3430.2	3176.1
-47.5°	3018.9	3129.2	3195.7	3217.9	3195.7	3129.2	3018.9	2865.5	2670.0	2433.5	2157.6
-50°	2076.7	2093.2	2103.2	2106.5	2103.2	2093.2	2076.7	2053.7	2024.4	1988.9	1947.4
-52.5°	1892.0	1910.3	1921.2	1924.9	1921.2	1910.3	1892.0	1866.7	1834.3	1795.0	1749.1
-55°	1669.9	1689.9	1702.0	1706.0	1702.0	1689.9	1669.9	1642.0	1606.4	1563.1	1512.5
-57.5°	1411.2	1428.6	1439.1	1442.6	1439.1	1428.6	1411.2	1386.8	1355.7	1318.0	1273.7
-60°	1167.4	1180.1	1187.8	1190.4	1187.8	1180.1	1167.4	1149.6	1126.8	1099.1	1066.6
-62.5°	965.4	977.2	984.3	986.7	984.3	977.2	965.4	948.9	927.7	902.0	871.9
-65°	758.8	769.2	775.4	777.5	775.4	769.2	758.8	744.2	725.7	703.0	676.5
-67.5°	559.1	566.4	570.8	572.3	570.8	566.4	559.1	549.0	535.9	520.0	501.4
-70°	398.3	404.9	408.9	410.2	408.9	404.9	398.3	389.1	377.4	363.0	346.2
-72.5°	235.8	240.3	243.0	243.9	243.0	240.3	235.8	229.5	221.4	211.6	200.0
-75°	108.8	110.7	111.9	112.3	111.9	110.7	108.8	106.1	102.6	98.4	93.4
-77.5°	44.9	45.3	45.6	45.7	45.6	45.3	44.9	44.2	43.4	42.3	41.1
-80°	26.0	26.2	26.3	26.3	26.3	26.2	26.0	25.7	25.4	25.0	24.5
-82.5°	16.4	16.5	16.6	16.6	16.6	16.5	16.4	16.3	16.1	15.9	15.6
-85°	9.6	9.7	9.7	9.7	9.7	9.7	9.6	9.6	9.5	9.4	9.3
-87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	5.4	5.3	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





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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°	5.2	5.1	5.0	4.9	4.8	4.6	4.5	4.4	4.2	4.1	3.9
85°	9.2	9.1	8.9	8.7	8.6	8.4	8.2	8.0	7.7	7.5	7.2
82.5°	15.3	15.0	14.7	14.2	13.8	13.3	12.8	12.3	11.7	11.1	10.5
80°	23.9	23.3	22.6	21.9	21.1	20.2	19.2	18.2	17.2	16.2	15.4
77.5°	39.8	38.2	36.5	34.6	32.5	30.3	27.9	25.9	24.5	23.1	21.7
75°	87.7	81.3	74.1	66.3	57.8	48.6	43.7	40.6	37.4	34.1	30.5
72.5°	186.7	171.8	155.2	137.0	117.3	104.1	92.6	80.4	67.5	53.9	44.0
70°	326.9	305.1	281.0	254.6	229.7	205.2	179.2	151.5	122.2	101.8	85.5
67.5°	480.0	455.9	429.2	399.8	367.3	332.3	295.0	255.5	220.0	185.4	149.1
65°	646.1	611.9	574.0	540.9	505.5	467.3	426.7	382.9	336.3	287.5	238.0
62.5°	837.4	798.6	756.1	710.0	660.2	606.7	554.5	506.8	456.6	403.8	347.5
60°	1029.4	987.7	940.4	888.6	832.6	772.7	710.0	643.8	574.0	516.0	455.9
57.5°	1223.1	1171.0	1120.4	1065.2	1005.5	940.4	870.6	796.8	720.5	641.0	561.2
55°	1454.7	1392.1	1323.7	1249.1	1172.8	1103.3	1029.4	950.6	866.6	778.9	689.5
52.5°	1694.7	1624.2	1546.4	1461.8	1373.7	1280.4	1183.2	1099.1	1010.9	917.1	819.1
50°	1895.0	1831.3	1761.3	1680.9	1582.3	1477.2	1369.2	1257.1	1149.6	1051.0	947.7
47.5°	2063.5	2006.3	1943.5	1865.1	1776.8	1678.1	1558.6	1433.6	1308.1	1180.1	1071.1
45°	2836.1	2457.5	2096.0	2022.6	1943.9	1847.0	1740.7	1613.7	1474.0	1333.8	1190.4
42.5°	3713.7	3376.9	2963.7	2480.7	2083.3	1993.8	1894.5	1775.8	1641.5	1487.6	1333.8
40°	4290.4	4141.5	3756.2	3329.2	2800.4	2216.0	2024.2	1918.5	1787.6	1641.5	1474.0
37.5°	4621.7	4454.7	4280.2	4033.4	3547.0	2994.8	2343.2	2034.3	1918.5	1775.8	1613.7
35°	4973.5	4778.1	4579.2	4374.6	4161.9	3657.1	3060.1	2343.2	2024.2	1894.5	1740.7
32.5°	5382.6	5140.8	4884.8	4657.3	4422.3	4185.2	3657.1	2994.8	2216.0	1993.8	1847.0
30°	5909.6	5564.2	5243.2	4945.8	4683.6	4422.3	4161.9	3547.0	2800.4	2083.3	1943.9
27.5°	6725.2	6063.5	5659.0	5277.7	4945.8	4657.3	4374.6	4033.4	3329.2	2480.7	2022.6
25°	7851.8	6908.8	6151.9	5659.0	5243.2	4884.8	4579.2	4280.2	3756.2	2963.7	2096.0
22.5°	9524.5	8002.9	6908.8	6063.5	5564.2	5140.8	4778.1	4454.7	4141.5	3376.9	2457.5
20°	13170.4	9524.5	7851.8	6725.2	5909.6	5382.6	4973.5	4621.7	4290.4	3713.7	2836.1
17.5°	19816.5	12691.9	8878.5	7405.1	6364.9	5670.3	5177.5	4775.8	4424.7	4016.9	3176.1
15°	27737.2	17459.6	11281.2	8261.6	6869.9	5931.6	5359.0	4913.4	4545.7	4195.6	3430.2
12.5°	38381.5	23478.9	13627.0	9012.9	7369.4	6245.5	5555.0	5058.1	4654.4	4289.9	3642.0
10°	48207.5	30059.6	17545.6	10819.4	7948.4	6584.5	5729.4	5178.6	4744.7	4368.0	3817.3
7.5°	58338.7	36769.4	21296.0	12268.2	8409.2	6853.4	5867.3	5273.7	4815.9	4429.5	3955.1
5°	65865.6	41716.0	24044.9	13325.4	8744.3	7048.4	5967.2	5342.4	4867.2	4473.8	4054.2
2.5°	70510.2	44750.7	25724.2	13969.2	8947.9	7166.7	6027.6	5383.9	4898.2	4500.6	4113.9
0°	72081.2	45774.0	26289.2	14185.4	9016.2	7206.3	6047.8	5397.8	4908.6	4509.5	4133.9
-2.5°	70510.2	44750.7	25724.2	13969.2	8947.9	7166.7	6027.6	5383.9	4898.2	4500.6	4113.9
-5°	65865.6	41716.0	24044.9	13325.4	8744.3	7048.4	5967.2	5342.4	4867.2	4473.8	4054.2
-7.5°	58338.7	36769.4	21296.0	12268.2	8409.2	6853.4	5867.3	5273.7	4815.9	4429.5	3955.1
-10°	48207.5	30059.6	17545.6	10819.4	7948.4	6584.5	5729.4	5178.6	4744.7	4368.0	3817.3
-12.5°	38381.5	23478.9	13627.0	9012.9	7369.4	6245.5	5555.0	5058.1	4654.4	4289.9	3642.0
-15°	27737.2	17459.6	11281.2	8261.6	6869.9	5931.6	5359.0	4913.4	4545.7	4195.6	3430.2
-17.5°	19816.5	12691.9	8878.5	7405.1	6364.9	5670.3	5177.5	4775.8	4424.7	4016.9	3176.1
-20°	13170.4	9524.5	7851.8	6725.2	5909.6	5382.6	4973.5	4621.7	4290.4	3713.7	2836.1



REPORT NUMBER: P731242 (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°	9524.5	8002.9	6908.8	6063.5	5564.2	5140.8	4778.1	4454.7	4141.5	3376.9	2457.5
-25°	7851.8	6908.8	6151.9	5659.0	5243.2	4884.8	4579.2	4280.2	3756.2	2963.7	2096.0
-27.5°	6725.2	6063.5	5659.0	5277.7	4945.8	4657.3	4374.6	4033.4	3329.2	2480.7	2022.6
-30°	5909.6	5564.2	5243.2	4945.8	4683.6	4422.3	4161.9	3547.0	2800.4	2083.3	1943.9
-32.5°	5382.6	5140.8	4884.8	4657.3	4422.3	4185.2	3657.1	2994.8	2216.0	1993.8	1847.0
-35°	4973.5	4778.1	4579.2	4374.6	4161.9	3657.1	3060.1	2343.2	2024.2	1894.5	1740.7
-37.5°	4621.7	4454.7	4280.2	4033.4	3547.0	2994.8	2343.2	2034.3	1918.5	1775.8	1613.7
-40°	4290.4	4141.5	3756.2	3329.2	2800.4	2216.0	2024.2	1918.5	1787.6	1641.5	1474.0
-42.5°	3713.7	3376.9	2963.7	2480.7	2083.3	1993.8	1894.5	1775.8	1641.5	1487.6	1333.8
-45°	2836.1	2457.5	2096.0	2022.6	1943.9	1847.0	1740.7	1613.7	1474.0	1333.8	1190.4
-47.5°	2063.5	2006.3	1943.5	1865.1	1776.8	1678.1	1558.6	1433.6	1308.1	1180.1	1071.1
-50°	1895.0	1831.3	1761.3	1680.9	1582.3	1477.2	1369.2	1257.1	1149.6	1051.0	947.7
-52.5°	1694.7	1624.2	1546.4	1461.8	1373.7	1280.4	1183.2	1099.1	1010.9	917.1	819.1
-55°	1454.7	1392.1	1323.7	1249.1	1172.8	1103.3	1029.4	950.6	866.6	778.9	689.5
-57.5°	1223.1	1171.0	1120.4	1065.2	1005.5	940.4	870.6	796.8	720.5	641.0	561.2
-60°	1029.4	987.7	940.4	888.6	832.6	772.7	710.0	643.8	574.0	516.0	455.9
-62.5°	837.4	798.6	756.1	710.0	660.2	606.7	554.5	506.8	456.6	403.8	347.5
-65°	646.1	611.9	574.0	540.9	505.5	467.3	426.7	382.9	336.3	287.5	238.0
-67.5°	480.0	455.9	429.2	399.8	367.3	332.3	295.0	255.5	220.0	185.4	149.1
-70°	326.9	305.1	281.0	254.6	229.7	205.2	179.2	151.5	122.2	101.8	85.5
-72.5°	186.7	171.8	155.2	137.0	117.3	104.1	92.6	80.4	67.5	53.9	44.0
-75°	87.7	81.3	74.1	66.3	57.8	48.6	43.7	40.6	37.4	34.1	30.5
-77.5°	39.8	38.2	36.5	34.6	32.5	30.3	27.9	25.9	24.5	23.1	21.7
-80°	23.9	23.3	22.6	21.9	21.1	20.2	19.2	18.2	17.2	16.2	15.4
-82.5°	15.3	15.0	14.7	14.2	13.8	13.3	12.8	12.3	11.7	11.1	10.5
-85°	9.2	9.1	8.9	8.7	8.6	8.4	8.2	8.0	7.7	7.5	7.2
-87.5°	5.2	5.1	5.0	4.9	4.8	4.6	4.5	4.4	4.2	4.1	3.9
-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: P731242 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0530N-40-80-3S-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°	3.7	3.5	3.3	3.2	3.0	2.7	2.5	2.3	2.1	1.9	1.7
85°	7.0	6.7	6.4	6.1	5.8	5.5	5.1	4.6	4.2	3.8	3.3
82.5°	9.9	9.4	9.0	8.5	8.1	7.6	7.1	6.6	6.1	5.6	4.9
80°	14.5	13.6	12.6	11.7	10.7	9.7	9.0	8.4	7.7	7.0	6.3
77.5°	20.1	18.5	16.9	15.6	14.3	13.0	11.7	10.4	9.3	8.4	7.6
75°	26.8	24.7	22.7	20.6	18.5	16.4	14.8	13.2	11.6	9.9	8.8
72.5°	39.7	35.2	30.6	26.0	23.6	21.1	18.5	16.1	14.1	12.2	10.2
70°	68.6	51.0	42.0	36.5	30.9	25.7	22.8	19.7	16.7	14.4	12.2
67.5°	111.9	92.1	71.6	50.5	40.8	34.3	27.7	23.6	20.2	16.7	14.1
65°	196.0	152.4	109.9	86.4	62.3	43.4	36.0	28.5	23.6	19.7	16.1
62.5°	288.9	231.6	182.1	131.1	95.4	68.3	44.2	36.0	27.7	22.8	18.5
60°	393.1	326.9	258.6	200.0	143.0	98.4	68.3	43.4	34.3	25.7	21.1
57.5°	493.5	423.5	349.8	273.8	206.0	143.0	95.4	62.3	40.8	30.9	23.6
55°	596.9	516.2	438.5	357.5	273.8	200.0	131.1	86.4	50.5	36.5	26.0
52.5°	718.8	616.3	523.8	438.5	349.8	258.6	182.1	109.9	71.6	42.0	30.6
50°	839.3	728.6	616.3	516.2	423.5	326.9	231.6	152.4	92.1	51.0	35.2
47.5°	958.0	839.3	718.8	596.9	493.5	393.1	288.9	196.0	111.9	68.6	39.7
45°	1071.1	947.7	819.1	689.5	561.2	455.9	347.5	238.0	149.1	85.5	44.0
42.5°	1180.1	1051.0	917.1	778.9	641.0	516.0	403.8	287.5	185.4	101.8	53.9
40°	1308.1	1149.6	1010.9	866.6	720.5	574.0	456.6	336.3	220.0	122.2	67.5
37.5°	1433.6	1257.1	1099.1	950.6	796.8	643.8	506.8	382.9	255.5	151.5	80.4
35°	1558.6	1369.2	1183.2	1029.4	870.6	710.0	554.5	426.7	295.0	179.2	92.6
32.5°	1678.1	1477.2	1280.4	1103.3	940.4	772.7	606.7	467.3	332.3	205.2	104.1
30°	1776.8	1582.3	1373.7	1172.8	1005.5	832.6	660.2	505.5	367.3	229.7	117.3
27.5°	1865.1	1680.9	1461.8	1249.1	1065.2	888.6	710.0	540.9	399.8	254.6	137.0
25°	1943.5	1761.3	1546.4	1323.7	1120.4	940.4	756.1	574.0	429.2	281.0	155.2
22.5°	2006.3	1831.3	1624.2	1392.1	1171.0	987.7	798.6	611.9	455.9	305.1	171.8
20°	2063.5	1895.0	1694.7	1454.7	1223.1	1029.4	837.4	646.1	480.0	326.9	186.7
17.5°	2157.6	1947.4	1749.1	1512.5	1273.7	1066.6	871.9	676.5	501.4	346.2	200.0
15°	2433.5	1988.9	1795.0	1563.1	1318.0	1099.1	902.0	703.0	520.0	363.0	211.6
12.5°	2670.0	2024.4	1834.3	1606.4	1355.7	1126.8	927.7	725.7	535.9	377.4	221.4
10°	2865.5	2053.7	1866.7	1642.0	1386.8	1149.6	948.9	744.2	549.0	389.1	229.5
7.5°	3018.9	2076.7	1892.0	1669.9	1411.2	1167.4	965.4	758.8	559.1	398.3	235.8
5°	3129.2	2093.2	1910.3	1689.9	1428.6	1180.1	977.2	769.2	566.4	404.9	240.3
2.5°	3195.7	2103.2	1921.2	1702.0	1439.1	1187.8	984.3	775.4	570.8	408.9	243.0
0°	3217.9	2106.5	1924.9	1706.0	1442.6	1190.4	986.7	777.5	572.3	410.2	243.9
-2.5°	3195.7	2103.2	1921.2	1702.0	1439.1	1187.8	984.3	775.4	570.8	408.9	243.0
-5°	3129.2	2093.2	1910.3	1689.9	1428.6	1180.1	977.2	769.2	566.4	404.9	240.3
-7.5°	3018.9	2076.7	1892.0	1669.9	1411.2	1167.4	965.4	758.8	559.1	398.3	235.8
-10°	2865.5	2053.7	1866.7	1642.0	1386.8	1149.6	948.9	744.2	549.0	389.1	229.5
-12.5°	2670.0	2024.4	1834.3	1606.4	1355.7	1126.8	927.7	725.7	535.9	377.4	221.4
-15°	2433.5	1988.9	1795.0	1563.1	1318.0	1099.1	902.0	703.0	520.0	363.0	211.6
-17.5°	2157.6	1947.4	1749.1	1512.5	1273.7	1066.6	871.9	676.5	501.4	346.2	200.0
-20°	2063.5	1895.0	1694.7	1454.7	1223.1	1029.4	837.4	646.1	480.0	326.9	186.7



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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°	2006.3	1831.3	1624.2	1392.1	1171.0	987.7	798.6	611.9	455.9	305.1	171.8
-25°	1943.5	1761.3	1546.4	1323.7	1120.4	940.4	756.1	574.0	429.2	281.0	155.2
-27.5°	1865.1	1680.9	1461.8	1249.1	1065.2	888.6	710.0	540.9	399.8	254.6	137.0
-30°	1776.8	1582.3	1373.7	1172.8	1005.5	832.6	660.2	505.5	367.3	229.7	117.3
-32.5°	1678.1	1477.2	1280.4	1103.3	940.4	772.7	606.7	467.3	332.3	205.2	104.1
-35°	1558.6	1369.2	1183.2	1029.4	870.6	710.0	554.5	426.7	295.0	179.2	92.6
-37.5°	1433.6	1257.1	1099.1	950.6	796.8	643.8	506.8	382.9	255.5	151.5	80.4
-40°	1308.1	1149.6	1010.9	866.6	720.5	574.0	456.6	336.3	220.0	122.2	67.5
-42.5°	1180.1	1051.0	917.1	778.9	641.0	516.0	403.8	287.5	185.4	101.8	53.9
-45°	1071.1	947.7	819.1	689.5	561.2	455.9	347.5	238.0	149.1	85.5	44.0
-47.5°	958.0	839.3	718.8	596.9	493.5	393.1	288.9	196.0	111.9	68.6	39.7
-50°	839.3	728.6	616.3	516.2	423.5	326.9	231.6	152.4	92.1	51.0	35.2
-52.5°	718.8	616.3	523.8	438.5	349.8	258.6	182.1	109.9	71.6	42.0	30.6
-55°	596.9	516.2	438.5	357.5	273.8	200.0	131.1	86.4	50.5	36.5	26.0
-57.5°	493.5	423.5	349.8	273.8	206.0	143.0	95.4	62.3	40.8	30.9	23.6
-60°	393.1	326.9	258.6	200.0	143.0	98.4	68.3	43.4	34.3	25.7	21.1
-62.5°	288.9	231.6	182.1	131.1	95.4	68.3	44.2	36.0	27.7	22.8	18.5
-65°	196.0	152.4	109.9	86.4	62.3	43.4	36.0	28.5	23.6	19.7	16.1
-67.5°	111.9	92.1	71.6	50.5	40.8	34.3	27.7	23.6	20.2	16.7	14.1
-70°	68.6	51.0	42.0	36.5	30.9	25.7	22.8	19.7	16.7	14.4	12.2
-72.5°	39.7	35.2	30.6	26.0	23.6	21.1	18.5	16.1	14.1	12.2	10.2
-75°	26.8	24.7	22.7	20.6	18.5	16.4	14.8	13.2	11.6	9.9	8.8
-77.5°	20.1	18.5	16.9	15.6	14.3	13.0	11.7	10.4	9.3	8.4	7.6
-80°	14.5	13.6	12.6	11.7	10.7	9.7	9.0	8.4	7.7	7.0	6.3
-82.5°	9.9	9.4	9.0	8.5	8.1	7.6	7.1	6.6	6.1	5.6	4.9
-85°	7.0	6.7	6.4	6.1	5.8	5.5	5.1	4.6	4.2	3.8	3.3
-87.5°	3.7	3.5	3.3	3.2	3.0	2.7	2.5	2.3	2.1	1.9	1.7
-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°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
85°	2.8	2.4	1.9	1.4	1.0	0.5	0.0
82.5°	4.3	3.6	2.9	2.1	1.4	0.7	0.0
80°	5.6	4.7	3.8	2.9	1.9	1.0	0.0
77.5°	6.7	5.8	4.7	3.6	2.4	1.2	0.0
75°	7.8	6.7	5.6	4.3	2.8	1.4	0.0
72.5°	8.8	7.6	6.3	4.9	3.3	1.7	0.0
70°	9.9	8.4	7.0	5.6	3.8	1.9	0.0
67.5°	11.6	9.3	7.7	6.1	4.2	2.1	0.0
65°	13.2	10.4	8.4	6.6	4.6	2.3	0.0
62.5°	14.8	11.7	9.0	7.1	5.1	2.5	0.0
60°	16.4	13.0	9.7	7.6	5.5	2.7	0.0
57.5°	18.5	14.3	10.7	8.1	5.8	3.0	0.0
55°	20.6	15.6	11.7	8.5	6.1	3.2	0.0
52.5°	22.7	16.9	12.6	9.0	6.4	3.3	0.0
50°	24.7	18.5	13.6	9.4	6.7	3.5	0.0
47.5°	26.8	20.1	14.5	9.9	7.0	3.7	0.0
45°	30.5	21.7	15.4	10.5	7.2	3.9	0.0
42.5°	34.1	23.1	16.2	11.1	7.5	4.1	0.0
40°	37.4	24.5	17.2	11.7	7.7	4.2	0.0
37.5°	40.6	25.9	18.2	12.3	8.0	4.4	0.0
35°	43.7	27.9	19.2	12.8	8.2	4.5	0.0
32.5°	48.6	30.3	20.2	13.3	8.4	4.6	0.0
30°	57.8	32.5	21.1	13.8	8.6	4.8	0.0
27.5°	66.3	34.6	21.9	14.2	8.7	4.9	0.0
25°	74.1	36.5	22.6	14.7	8.9	5.0	0.0
22.5°	81.3	38.2	23.3	15.0	9.1	5.1	0.0
20°	87.7	39.8	23.9	15.3	9.2	5.2	0.0
17.5°	93.4	41.1	24.5	15.6	9.3	5.2	0.0
15°	98.4	42.3	25.0	15.9	9.4	5.3	0.0
12.5°	102.6	43.4	25.4	16.1	9.5	5.4	0.0
10°	106.1	44.2	25.7	16.3	9.6	5.4	0.0
7.5°	108.8	44.9	26.0	16.4	9.6	5.5	0.0
5°	110.7	45.3	26.2	16.5	9.7	5.5	0.0
2.5°	111.9	45.6	26.3	16.6	9.7	5.5	0.0
0°	112.3	45.7	26.3	16.6	9.7	5.5	0.0
-2.5°	111.9	45.6	26.3	16.6	9.7	5.5	0.0
-5°	110.7	45.3	26.2	16.5	9.7	5.5	0.0
-7.5°	108.8	44.9	26.0	16.4	9.6	5.5	0.0
-10°	106.1	44.2	25.7	16.3	9.6	5.4	0.0
-12.5°	102.6	43.4	25.4	16.1	9.5	5.4	0.0
-15°	98.4	42.3	25.0	15.9	9.4	5.3	0.0
-17.5°	93.4	41.1	24.5	15.6	9.3	5.2	0.0
-20°	87.7	39.8	23.9	15.3	9.2	5.2	0.0



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 CATALOG NUMBER: EPH-LS-08-0530N-40-80-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	81.3	38.2	23.3	15.0	9.1	5.1	0.0
-25°	74.1	36.5	22.6	14.7	8.9	5.0	0.0
-27.5°	66.3	34.6	21.9	14.2	8.7	4.9	0.0
-30°	57.8	32.5	21.1	13.8	8.6	4.8	0.0
-32.5°	48.6	30.3	20.2	13.3	8.4	4.6	0.0
-35°	43.7	27.9	19.2	12.8	8.2	4.5	0.0
-37.5°	40.6	25.9	18.2	12.3	8.0	4.4	0.0
-40°	37.4	24.5	17.2	11.7	7.7	4.2	0.0
-42.5°	34.1	23.1	16.2	11.1	7.5	4.1	0.0
-45°	30.5	21.7	15.4	10.5	7.2	3.9	0.0
-47.5°	26.8	20.1	14.5	9.9	7.0	3.7	0.0
-50°	24.7	18.5	13.6	9.4	6.7	3.5	0.0
-52.5°	22.7	16.9	12.6	9.0	6.4	3.3	0.0
-55°	20.6	15.6	11.7	8.5	6.1	3.2	0.0
-57.5°	18.5	14.3	10.7	8.1	5.8	3.0	0.0
-60°	16.4	13.0	9.7	7.6	5.5	2.7	0.0
-62.5°	14.8	11.7	9.0	7.1	5.1	2.5	0.0
-65°	13.2	10.4	8.4	6.6	4.6	2.3	0.0
-67.5°	11.6	9.3	7.7	6.1	4.2	2.1	0.0
-70°	9.9	8.4	7.0	5.6	3.8	1.9	0.0
-72.5°	8.8	7.6	6.3	4.9	3.3	1.7	0.0
-75°	7.8	6.7	5.6	4.3	2.8	1.4	0.0
-77.5°	6.7	5.8	4.7	3.6	2.4	1.2	0.0
-80°	5.6	4.7	3.8	2.9	1.9	1.0	0.0
-82.5°	4.3	3.6	2.9	2.1	1.4	0.7	0.0
-85°	2.8	2.4	1.9	1.4	1.0	0.5	0.0
-87.5°	1.4	1.2	1.0	0.7	0.5	0.2	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

