

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: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-3S-HEG**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731278 (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-40-80-3S-HEG  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

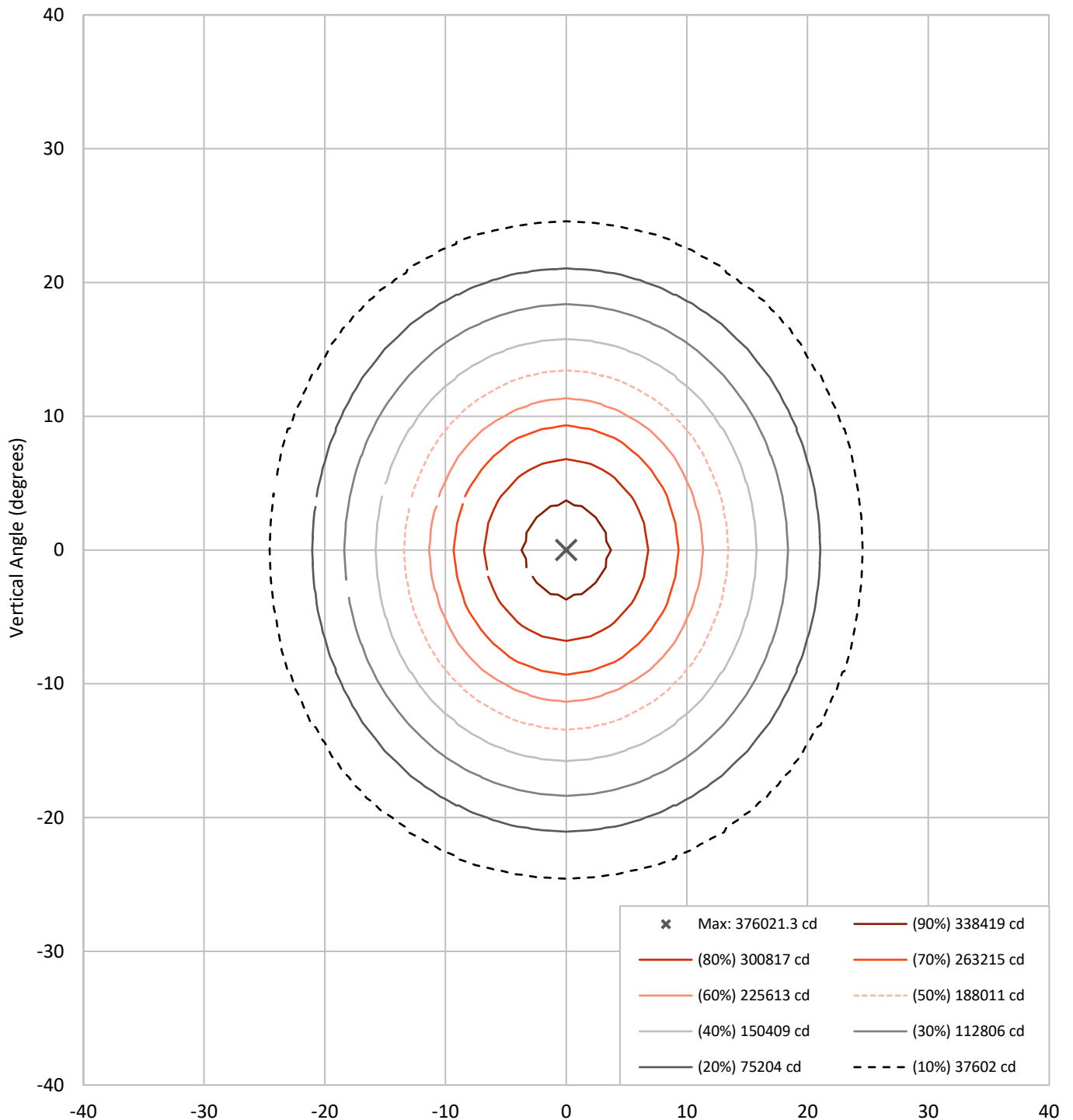
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	101558.4 lumens	Max Intensity:	376021.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	145.7 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:	44034.1 lumens	Field Lumens:	84303.4 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

REPORT NUMBER: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-HEG

### Iso-Candela Plot





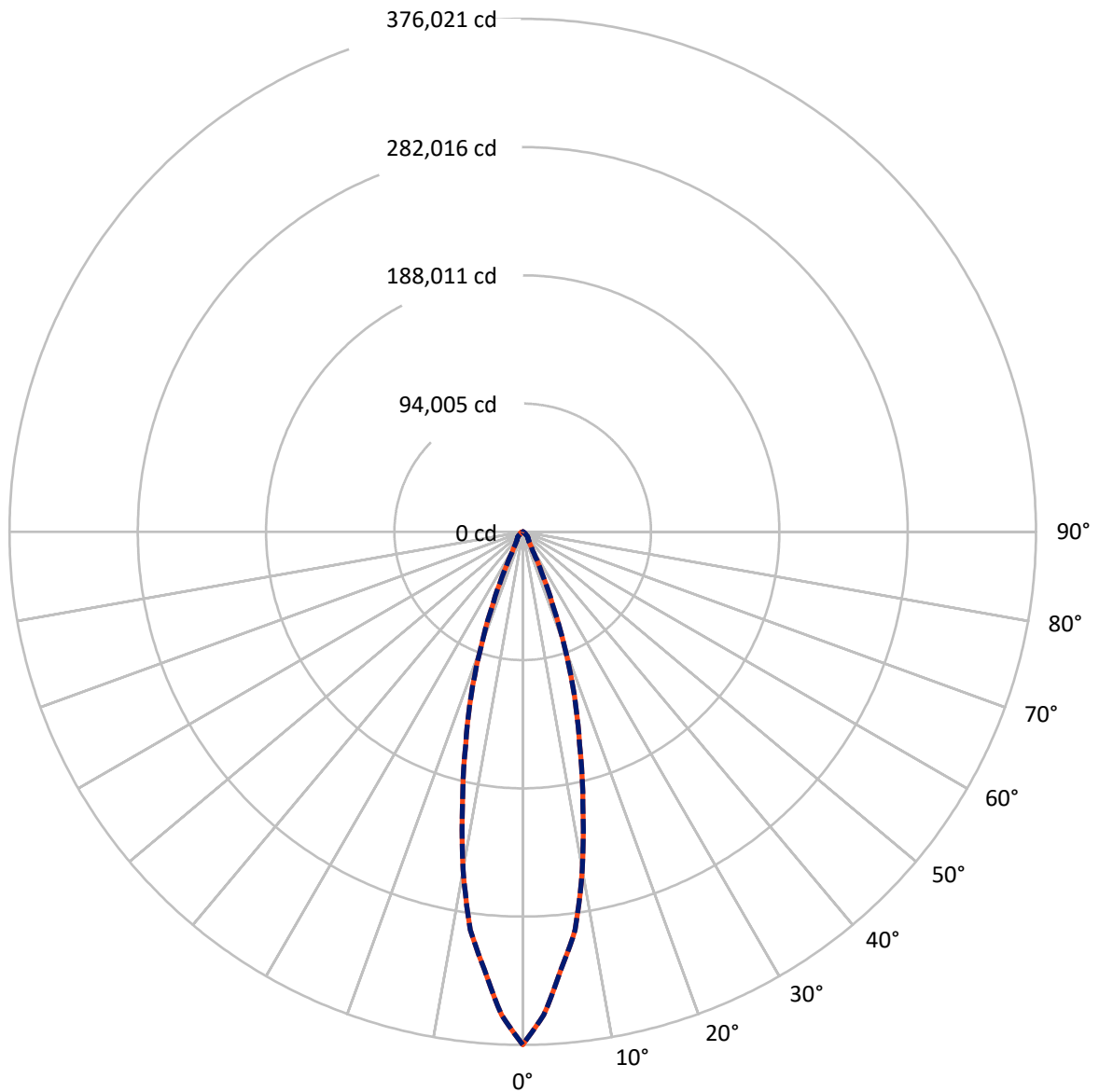
REPORT NUMBER: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-HEG

### Lumen Table

90																			
80	0.1	0.9		3.5		9.2		12.2		9.2		3.5		0.9	0.1				
70																			
60	0.4	0.5	2.2	6.7	13.3	20.1	25.8	28.9	28.9	25.8	20.1	13.3	6.7	2.2	0.5	0.4			
50		1.7	7.9	18.5	31.7	45.3	56.2	62.1	62.1	56.2	45.3	31.7	18.5	7.9	1.7				
40	1.2	4.2	15.1	32.1	53.2	83.7	119.9	140.6	140.6	119.9	83.7	53.2	32.1	15.1	4.2	1.2			
30		7.1	22.4	46.0	93.9	154.6	198.9	233.6	233.6	198.9	154.6	93.9	46.0	22.4	7.1				
20	2.7	9.7	29.0	65.9	140.0	221.6	512.3	1053.7	1053.7	512.3	221.6	140.0	65.9	29.0	9.7	2.7			
10		11.6	33.7	88.7	169.2	483.6	2241.4	4488.5	4488.5	2241.4	483.6	169.2	88.7	33.7	11.6				
0	3.4	12.6	36.1	100.8	193.1	970.0	4365.7	8610.0	8610.0	4365.7	970.0	193.1	100.8	36.1	12.6	3.4			
-10		12.6	36.1	100.8	193.1	970.0	4365.7	8610.0	8610.0	4365.7	970.0	193.1	100.8	36.1	12.6				
-20	2.7	11.6	33.7	88.7	169.2	483.6	2241.4	4488.5	4488.5	2241.4	483.6	169.2	88.7	33.7	11.6	2.7			
-30		9.7	29.0	65.9	140.0	221.6	512.3	1053.7	1053.7	512.3	221.6	140.0	65.9	29.0	9.7				
-40	1.2	7.1	22.4	46.0	93.9	154.6	198.9	233.6	233.6	198.9	154.6	93.9	46.0	22.4	7.1	1.2			
-50		4.2	15.1	32.1	53.2	83.7	119.9	140.6	140.6	119.9	83.7	53.2	32.1	15.1	4.2				
-60	0.4	1.7	7.9	18.5	31.7	45.3	56.2	62.1	62.1	56.2	45.3	31.7	18.5	7.9	1.7	0.4			
-70		0.5	2.2	6.7	13.3	20.1	25.8	28.9	28.9	25.8	20.1	13.3	6.7	2.2	0.5				
-80	0.1	0.9		3.5		9.2		12.2		9.2		3.5		0.9	0.1				
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

REPORT NUMBER: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-HEG

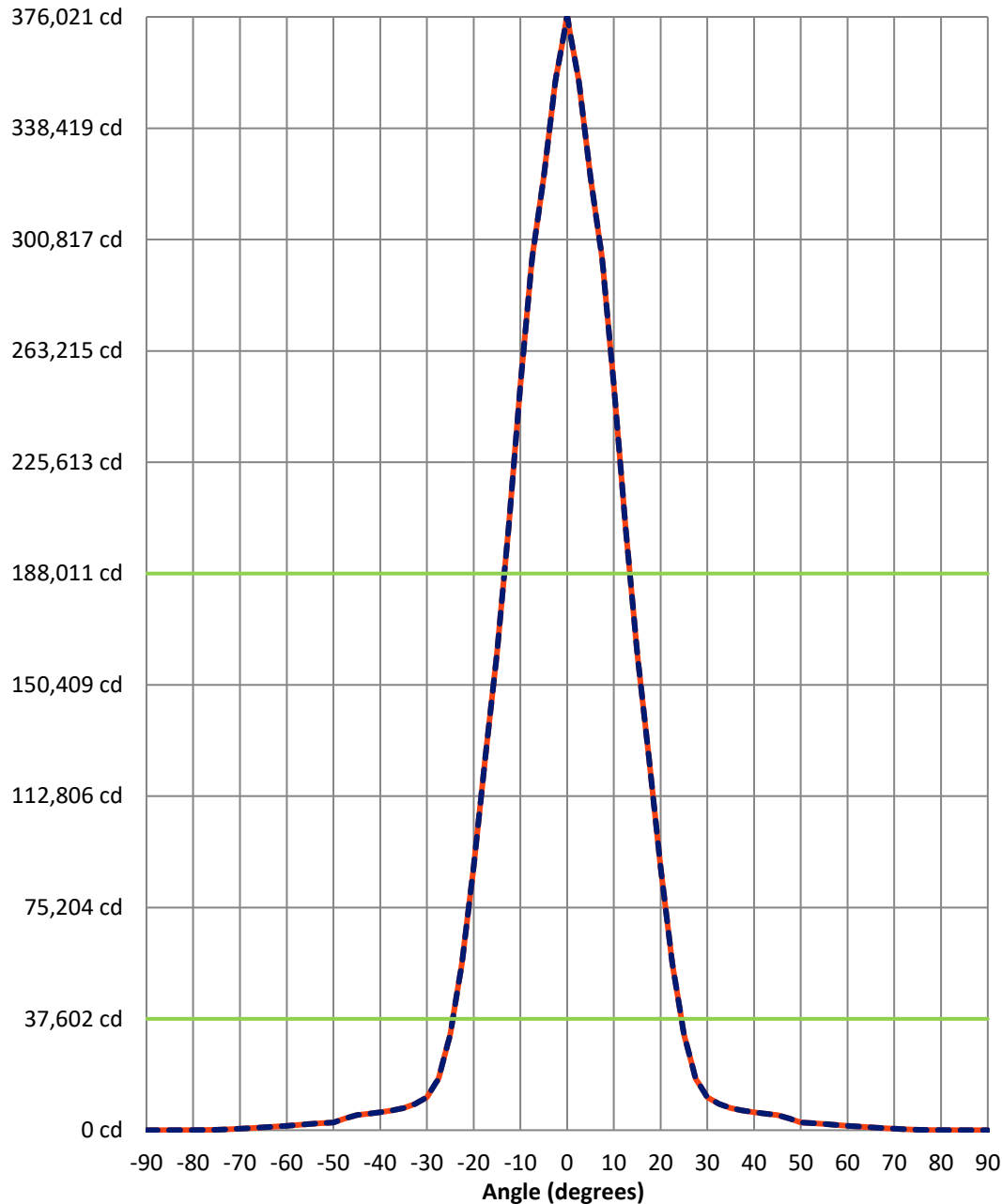
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-HEG

### Luminous Intensity Plot



**Beam:**  
 H Angle: 26.9°  
 V Angle: 26.9°  
 Lumens: 44034.1  
 Efficiency: 43.4%

**Field:**  
 H Angle: 48.9°  
 V Angle: 48.9°  
 Lumens: 84303.4  
 Efficiency: 83.0%

**Spill:**  
 Lumens: 17255  
 Efficiency: 17.0%

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



REPORT NUMBER: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-HEG

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	0.9	1.2	1.5	1.8	2.0	2.3	2.6	2.9
85°	0.0	0.6	1.2	1.8	2.4	2.9	3.5	4.1	4.6	5.2	5.7
82.5°	0.0	0.9	1.8	2.7	3.5	4.4	5.3	6.1	6.9	7.6	8.2
80°	0.0	1.2	2.4	3.5	4.7	5.9	7.0	7.8	8.7	9.5	10.4
77.5°	0.0	1.5	2.9	4.4	5.9	7.2	8.3	9.4	10.4	11.5	12.8
75°	0.0	1.8	3.5	5.3	7.0	8.3	9.6	10.9	12.3	14.3	16.4
72.5°	0.0	2.0	4.1	6.1	7.8	9.4	10.9	12.6	15.1	17.5	19.8
70°	0.0	2.3	4.6	6.9	8.7	10.4	12.3	15.1	17.8	20.6	24.4
67.5°	0.0	2.6	5.2	7.6	9.5	11.5	14.3	17.5	20.6	24.9	29.2
65°	0.0	2.9	5.7	8.2	10.4	12.8	16.4	19.8	24.4	29.2	35.3
62.5°	0.0	3.1	6.3	8.8	11.2	14.5	18.3	22.8	28.1	34.2	44.5
60°	0.0	3.4	6.8	9.4	12.0	16.1	20.3	26.0	31.8	42.4	53.5
57.5°	0.0	3.7	7.2	10.0	13.2	17.7	22.9	29.1	38.1	50.3	76.9
55°	0.0	3.9	7.6	10.5	14.4	19.2	25.5	32.2	45.1	62.3	106.5
52.5°	0.0	4.1	7.9	11.1	15.6	20.8	28.0	37.7	51.8	88.3	135.4
50°	0.0	4.4	8.3	11.6	16.8	22.9	30.5	43.4	63.0	113.5	187.9
47.5°	0.0	4.6	8.6	12.2	17.9	24.9	33.2	49.0	84.6	137.9	241.7
45°	0.0	4.8	8.9	13.0	19.0	26.8	37.7	54.3	105.5	183.9	293.5
42.5°	0.0	5.0	9.3	13.8	20.0	28.6	42.1	66.5	125.5	228.6	354.5
40°	0.0	5.2	9.6	14.5	21.2	30.3	46.2	83.2	150.7	271.4	414.7
37.5°	0.0	5.4	9.8	15.2	22.5	32.0	50.2	99.1	186.7	315.1	472.2
35°	0.0	5.6	10.1	15.9	23.8	34.5	53.9	114.1	220.9	363.8	526.1
32.5°	0.0	5.7	10.4	16.5	24.9	37.5	60.0	128.3	253.1	409.8	576.3
30°	0.0	5.9	10.6	17.1	26.0	40.2	71.2	144.6	283.2	452.9	623.3
27.5°	0.0	6.0	10.8	17.6	27.0	42.7	81.7	168.9	314.0	492.9	667.1
25°	0.0	6.2	11.0	18.1	28.0	45.0	91.4	191.3	346.5	529.3	707.9
22.5°	0.0	6.3	11.2	18.5	28.8	47.2	100.2	211.8	376.3	562.2	754.6
20°	0.0	6.4	11.4	19.0	29.6	49.1	108.1	230.2	403.1	591.9	796.7
17.5°	0.0	6.5	11.5	19.3	30.3	50.8	115.1	246.6	426.9	618.3	834.2
15°	0.0	6.6	11.6	19.6	30.8	52.3	121.3	260.9	447.7	641.3	866.9
12.5°	0.0	6.6	11.8	19.9	31.4	53.5	126.5	273.0	465.3	660.9	894.8
10°	0.0	6.7	11.8	20.1	31.8	54.6	130.8	283.0	479.8	677.0	917.7
7.5°	0.0	6.7	11.9	20.3	32.1	55.4	134.1	290.8	491.2	689.6	935.6
5°	0.0	6.8	12.0	20.4	32.3	55.9	136.5	296.3	499.3	698.6	948.4
2.5°	0.0	6.8	12.0	20.5	32.5	56.3	137.9	299.7	504.2	704.0	956.1
0°	0.0	6.8	12.0	20.5	32.5	56.3	137.9	299.7	504.2	704.0	956.1
-2.5°	0.0	6.8	12.0	20.5	32.5	56.3	137.9	299.7	504.2	704.0	956.1
-5°	0.0	6.8	12.0	20.4	32.3	55.9	136.5	296.3	499.3	698.6	948.4
-7.5°	0.0	6.7	11.9	20.3	32.1	55.4	134.1	290.8	491.2	689.6	935.6
-10°	0.0	6.7	11.8	20.1	31.8	54.6	130.8	283.0	479.8	677.0	917.7
-12.5°	0.0	6.6	11.8	19.9	31.4	53.5	126.5	273.0	465.3	660.9	894.8
-15°	0.0	6.6	11.6	19.6	30.8	52.3	121.3	260.9	447.7	641.3	866.9
-17.5°	0.0	6.5	11.5	19.3	30.3	50.8	115.1	246.6	426.9	618.3	834.2
-20°	0.0	6.4	11.4	19.0	29.6	49.1	108.1	230.2	403.1	591.9	796.7



REPORT NUMBER: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	6.3	11.2	18.5	28.8	47.2	100.2	211.8	376.3	562.2	754.6
-25°	0.0	6.2	11.0	18.1	28.0	45.0	91.4	191.3	346.5	529.3	707.9
-27.5°	0.0	6.0	10.8	17.6	27.0	42.7	81.7	168.9	314.0	492.9	667.1
-30°	0.0	5.9	10.6	17.1	26.0	40.2	71.2	144.6	283.2	452.9	623.3
-32.5°	0.0	5.7	10.4	16.5	24.9	37.5	60.0	128.3	253.1	409.8	576.3
-35°	0.0	5.6	10.1	15.9	23.8	34.5	53.9	114.1	220.9	363.8	526.1
-37.5°	0.0	5.4	9.8	15.2	22.5	32.0	50.2	99.1	186.7	315.1	472.2
-40°	0.0	5.2	9.6	14.5	21.2	30.3	46.2	83.2	150.7	271.4	414.7
-42.5°	0.0	5.0	9.3	13.8	20.0	28.6	42.1	66.5	125.5	228.6	354.5
-45°	0.0	4.8	8.9	13.0	19.0	26.8	37.7	54.3	105.5	183.9	293.5
-47.5°	0.0	4.6	8.6	12.2	17.9	24.9	33.2	49.0	84.6	137.9	241.7
-50°	0.0	4.4	8.3	11.6	16.8	22.9	30.5	43.4	63.0	113.5	187.9
-52.5°	0.0	4.1	7.9	11.1	15.6	20.8	28.0	37.7	51.8	88.3	135.4
-55°	0.0	3.9	7.6	10.5	14.4	19.2	25.5	32.2	45.1	62.3	106.5
-57.5°	0.0	3.7	7.2	10.0	13.2	17.7	22.9	29.1	38.1	50.3	76.9
-60°	0.0	3.4	6.8	9.4	12.0	16.1	20.3	26.0	31.8	42.4	53.5
-62.5°	0.0	3.1	6.3	8.8	11.2	14.5	18.3	22.8	28.1	34.2	44.5
-65°	0.0	2.9	5.7	8.2	10.4	12.8	16.4	19.8	24.4	29.2	35.3
-67.5°	0.0	2.6	5.2	7.6	9.5	11.5	14.3	17.5	20.6	24.9	29.2
-70°	0.0	2.3	4.6	6.9	8.7	10.4	12.3	15.1	17.8	20.6	24.4
-72.5°	0.0	2.0	4.1	6.1	7.8	9.4	10.9	12.6	15.1	17.5	19.8
-75°	0.0	1.8	3.5	5.3	7.0	8.3	9.6	10.9	12.3	14.3	16.4
-77.5°	0.0	1.5	2.9	4.4	5.9	7.2	8.3	9.4	10.4	11.5	12.8
-80°	0.0	1.2	2.4	3.5	4.7	5.9	7.0	7.8	8.7	9.5	10.4
-82.5°	0.0	0.9	1.8	2.7	3.5	4.4	5.3	6.1	6.9	7.6	8.2
-85°	0.0	0.6	1.2	1.8	2.4	2.9	3.5	4.1	4.6	5.2	5.7
-87.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.0	2.3	2.6	2.9
-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: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-HEG

**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°	3.1	3.4	3.7	3.9	4.1	4.4	4.6	4.8	5.0	5.2	5.4
85°	6.3	6.8	7.2	7.6	7.9	8.3	8.6	8.9	9.3	9.6	9.8
82.5°	8.8	9.4	10.0	10.5	11.1	11.6	12.2	13.0	13.8	14.5	15.2
80°	11.2	12.0	13.2	14.4	15.6	16.8	17.9	19.0	20.0	21.2	22.5
77.5°	14.5	16.1	17.7	19.2	20.8	22.9	24.9	26.8	28.6	30.3	32.0
75°	18.3	20.3	22.9	25.5	28.0	30.5	33.2	37.7	42.1	46.2	50.2
72.5°	22.8	26.0	29.1	32.2	37.7	43.4	49.0	54.3	66.5	83.2	99.1
70°	28.1	31.8	38.1	45.1	51.8	63.0	84.6	105.5	125.5	150.7	186.7
67.5°	34.2	42.4	50.3	62.3	88.3	113.5	137.9	183.9	228.6	271.4	315.1
65°	44.5	53.5	76.9	106.5	135.4	187.9	241.7	293.5	354.5	414.7	472.2
62.5°	54.6	84.2	117.6	161.7	224.5	285.6	356.3	428.5	497.9	563.0	625.0
60°	84.2	121.3	176.3	246.6	318.9	403.1	484.7	562.2	636.3	707.9	793.9
57.5°	117.6	176.3	254.0	337.7	431.4	522.1	608.5	692.1	790.5	888.4	982.5
55°	161.7	246.6	337.7	440.8	540.7	636.6	736.1	850.2	960.4	1068.6	1172.1
52.5°	224.5	318.9	431.4	540.7	646.0	760.0	886.4	1010.0	1130.9	1246.5	1355.3
50°	285.6	403.1	522.1	636.6	760.0	898.5	1034.9	1168.6	1296.0	1417.6	1550.2
47.5°	356.3	484.7	608.5	736.1	886.4	1034.9	1181.2	1320.9	1455.4	1613.2	1767.9
45°	428.5	562.2	692.1	850.2	1010.0	1168.6	1320.9	1468.0	1644.9	1817.7	1989.9
42.5°	497.9	636.3	790.5	960.4	1130.9	1296.0	1455.4	1644.9	1834.5	2024.2	2189.8
40°	563.0	707.9	888.4	1068.6	1246.5	1417.6	1613.2	1817.7	2024.2	2204.4	2365.8
37.5°	625.0	793.9	982.5	1172.1	1355.3	1550.2	1767.9	1989.9	2189.8	2365.8	2508.6
35°	683.8	875.6	1073.5	1269.4	1459.1	1688.4	1922.0	2146.5	2336.2	2496.0	2889.3
32.5°	748.2	952.8	1159.5	1360.5	1579.0	1821.6	2069.3	2277.6	2458.6	2732.6	3693.0
30°	814.1	1026.7	1239.9	1446.3	1694.0	1951.2	2191.0	2397.1	2568.9	3453.2	4373.9
27.5°	875.6	1095.7	1313.5	1540.4	1802.7	2072.7	2299.9	2494.1	3059.0	4105.4	4973.7
25°	932.3	1159.5	1381.6	1632.4	1907.0	2171.9	2396.6	2584.6	3654.7	4632.0	5278.1
22.5°	984.7	1217.9	1444.1	1716.8	2002.8	2258.3	2474.0	3030.3	4164.2	5107.1	5493.3
20°	1032.5	1269.4	1508.4	1793.9	2089.8	2336.8	2544.6	3497.2	4579.6	5290.7	5699.2
17.5°	1075.1	1315.3	1570.7	1865.2	2156.8	2401.4	2660.5	3916.6	4953.4	5456.3	5889.3
15°	1112.3	1355.3	1625.3	1927.6	2213.5	2452.5	3000.8	4229.9	5173.7	5605.4	6058.9
12.5°	1144.0	1389.5	1671.9	1980.9	2261.9	2496.3	3292.4	4491.1	5290.0	5739.5	6237.3
10°	1170.0	1417.6	1710.2	2024.8	2301.9	2532.5	3533.6	4707.3	5386.4	5850.9	6385.9
7.5°	1190.4	1439.6	1740.2	2059.2	2333.2	2560.8	3722.7	4877.2	5462.2	5938.7	6503.2
5°	1205.0	1455.4	1761.7	2083.9	2355.7	2581.1	3858.7	4999.4	5516.8	6002.0	6587.9
2.5°	1213.8	1464.8	1774.7	2098.7	2369.2	2593.4	3940.7	5073.1	5549.8	6040.2	6639.1
0°	1216.7	1468.0	1779.0	2103.7	2373.7	2597.5	3968.1	5097.7	5560.8	6053.0	6656.2
-2.5°	1213.8	1464.8	1774.7	2098.7	2369.2	2593.4	3940.7	5073.1	5549.8	6040.2	6639.1
-5°	1205.0	1455.4	1761.7	2083.9	2355.7	2581.1	3858.7	4999.4	5516.8	6002.0	6587.9
-7.5°	1190.4	1439.6	1740.2	2059.2	2333.2	2560.8	3722.7	4877.2	5462.2	5938.7	6503.2
-10°	1170.0	1417.6	1710.2	2024.8	2301.9	2532.5	3533.6	4707.3	5386.4	5850.9	6385.9
-12.5°	1144.0	1389.5	1671.9	1980.9	2261.9	2496.3	3292.4	4491.1	5290.0	5739.5	6237.3
-15°	1112.3	1355.3	1625.3	1927.6	2213.5	2452.5	3000.8	4229.9	5173.7	5605.4	6058.9
-17.5°	1075.1	1315.3	1570.7	1865.2	2156.8	2401.4	2660.5	3916.6	4953.4	5456.3	5889.3
-20°	1032.5	1269.4	1508.4	1793.9	2089.8	2336.8	2544.6	3497.2	4579.6	5290.7	5699.2



REPORT NUMBER: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-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°	984.7	1217.9	1444.1	1716.8	2002.8	2258.3	2474.0	3030.3	4164.2	5107.1	5493.3
-25°	932.3	1159.5	1381.6	1632.4	1907.0	2171.9	2396.6	2584.6	3654.7	4632.0	5278.1
-27.5°	875.6	1095.7	1313.5	1540.4	1802.7	2072.7	2299.9	2494.1	3059.0	4105.4	4973.7
-30°	814.1	1026.7	1239.9	1446.3	1694.0	1951.2	2191.0	2397.1	2568.9	3453.2	4373.9
-32.5°	748.2	952.8	1159.5	1360.5	1579.0	1821.6	2069.3	2277.6	2458.6	2732.6	3693.0
-35°	683.8	875.6	1073.5	1269.4	1459.1	1688.4	1922.0	2146.5	2336.2	2496.0	2889.3
-37.5°	625.0	793.9	982.5	1172.1	1355.3	1550.2	1767.9	1989.9	2189.8	2365.8	2508.6
-40°	563.0	707.9	888.4	1068.6	1246.5	1417.6	1613.2	1817.7	2024.2	2204.4	2365.8
-42.5°	497.9	636.3	790.5	960.4	1130.9	1296.0	1455.4	1644.9	1834.5	2024.2	2189.8
-45°	428.5	562.2	692.1	850.2	1010.0	1168.6	1320.9	1468.0	1644.9	1817.7	1989.9
-47.5°	356.3	484.7	608.5	736.1	886.4	1034.9	1181.2	1320.9	1455.4	1613.2	1767.9
-50°	285.6	403.1	522.1	636.6	760.0	898.5	1034.9	1168.6	1296.0	1417.6	1550.2
-52.5°	224.5	318.9	431.4	540.7	646.0	760.0	886.4	1010.0	1130.9	1246.5	1355.3
-55°	161.7	246.6	337.7	440.8	540.7	636.6	736.1	850.2	960.4	1068.6	1172.1
-57.5°	117.6	176.3	254.0	337.7	431.4	522.1	608.5	692.1	790.5	888.4	982.5
-60°	84.2	121.3	176.3	246.6	318.9	403.1	484.7	562.2	636.3	707.9	793.9
-62.5°	54.6	84.2	117.6	161.7	224.5	285.6	356.3	428.5	497.9	563.0	625.0
-65°	44.5	53.5	76.9	106.5	135.4	187.9	241.7	293.5	354.5	414.7	472.2
-67.5°	34.2	42.4	50.3	62.3	88.3	113.5	137.9	183.9	228.6	271.4	315.1
-70°	28.1	31.8	38.1	45.1	51.8	63.0	84.6	105.5	125.5	150.7	186.7
-72.5°	22.8	26.0	29.1	32.2	37.7	43.4	49.0	54.3	66.5	83.2	99.1
-75°	18.3	20.3	22.9	25.5	28.0	30.5	33.2	37.7	42.1	46.2	50.2
-77.5°	14.5	16.1	17.7	19.2	20.8	22.9	24.9	26.8	28.6	30.3	32.0
-80°	11.2	12.0	13.2	14.4	15.6	16.8	17.9	19.0	20.0	21.2	22.5
-82.5°	8.8	9.4	10.0	10.5	11.1	11.6	12.2	13.0	13.8	14.5	15.2
-85°	6.3	6.8	7.2	7.6	7.9	8.3	8.6	8.9	9.3	9.6	9.8
-87.5°	3.1	3.4	3.7	3.9	4.1	4.4	4.6	4.8	5.0	5.2	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: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-HEG

**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°	5.6	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.6	6.7
85°	10.1	10.4	10.6	10.8	11.0	11.2	11.4	11.5	11.6	11.8	11.8
82.5°	15.9	16.5	17.1	17.6	18.1	18.5	19.0	19.3	19.6	19.9	20.1
80°	23.8	24.9	26.0	27.0	28.0	28.8	29.6	30.3	30.8	31.4	31.8
77.5°	34.5	37.5	40.2	42.7	45.0	47.2	49.1	50.8	52.3	53.5	54.6
75°	53.9	60.0	71.2	81.7	91.4	100.2	108.1	115.1	121.3	126.5	130.8
72.5°	114.1	128.3	144.6	168.9	191.3	211.8	230.2	246.6	260.9	273.0	283.0
70°	220.9	253.1	283.2	314.0	346.5	376.3	403.1	426.9	447.7	465.3	479.8
67.5°	363.8	409.8	452.9	492.9	529.3	562.2	591.9	618.3	641.3	660.9	677.0
65°	526.1	576.3	623.3	667.1	707.9	754.6	796.7	834.2	866.9	894.8	917.7
62.5°	683.8	748.2	814.1	875.6	932.3	984.7	1032.5	1075.1	1112.3	1144.0	1170.0
60°	875.6	952.8	1026.7	1095.7	1159.5	1217.9	1269.4	1315.3	1355.3	1389.5	1417.6
57.5°	1073.5	1159.5	1239.9	1313.5	1381.6	1444.1	1508.4	1570.7	1625.3	1671.9	1710.2
55°	1269.4	1360.5	1446.3	1540.4	1632.4	1716.8	1793.9	1865.2	1927.6	1980.9	2024.8
52.5°	1459.1	1579.0	1694.0	1802.7	1907.0	2002.8	2089.8	2156.8	2213.5	2261.9	2301.9
50°	1688.4	1821.6	1951.2	2072.7	2171.9	2258.3	2336.8	2401.4	2452.5	2496.3	2532.5
47.5°	1922.0	2069.3	2191.0	2299.9	2396.6	2474.0	2544.6	2660.5	3000.8	3292.4	3533.6
45°	2146.5	2277.6	2397.1	2494.1	2584.6	3030.3	3497.2	3916.6	4229.9	4491.1	4707.3
42.5°	2336.2	2458.6	2568.9	3059.0	3654.7	4164.2	4579.6	4953.4	5173.7	5290.0	5386.4
40°	2496.0	2732.6	3453.2	4105.4	4632.0	5107.1	5290.7	5456.3	5605.4	5739.5	5850.9
37.5°	2889.3	3693.0	4373.9	4973.7	5278.1	5493.3	5699.2	5889.3	6058.9	6237.3	6385.9
35°	3773.5	4509.7	5132.3	5394.4	5646.8	5892.1	6133.0	6384.6	6608.3	6850.1	7065.1
32.5°	4509.7	5161.0	5453.3	5743.1	6023.7	6339.3	6637.5	6992.2	7314.4	7701.5	8119.5
30°	5132.3	5453.3	5775.5	6098.9	6465.6	6861.4	7287.3	7848.7	8471.5	9087.4	9801.4
27.5°	5394.4	5743.1	6098.9	6508.1	6978.3	7477.1	8293.0	9131.5	10187.7	11114.1	13341.7
25°	5646.8	6023.7	6465.6	6978.3	7586.0	8519.5	9682.3	10948.4	13911.2	16803.9	21636.0
22.5°	5892.1	6339.3	6861.4	7477.1	8519.5	9868.6	11745.0	15650.8	21530.0	28952.6	37067.4
20°	6133.0	6637.5	7287.3	8293.0	9682.3	11745.0	16240.8	24436.3	34203.5	47329.3	59446.0
17.5°	6384.6	6992.2	7848.7	9131.5	10948.4	15650.8	24436.3	36712.4	52649.6	70829.4	87877.0
15°	6608.3	7314.4	8471.5	10187.7	13911.2	21530.0	34203.5	52649.6	74733.9	97271.5	119015.8
12.5°	6850.1	7701.5	9087.4	11114.1	16803.9	28952.6	47329.3	70829.4	97271.5	124297.0	147695.7
10°	7065.1	8119.5	9801.4	13341.7	21636.0	37067.4	59446.0	87877.0	119015.8	147695.7	175609.2
7.5°	7235.2	8451.1	10369.7	15128.2	26260.7	45341.4	71939.1	103785.3	136745.8	168531.4	204222.2
5°	7358.3	8691.6	10783.0	16431.9	29650.5	51441.2	81220.8	115835.7	150025.7	187078.8	227903.0
2.5°	7432.8	8837.4	11034.0	17225.8	31721.3	55183.4	86948.2	123332.7	158387.0	199525.3	245284.0
0°	7457.7	8886.3	11118.2	17492.4	32418.0	56445.2	88885.4	125879.9	161247.4	203818.1	251539.3
-2.5°	7432.8	8837.4	11034.0	17225.8	31721.3	55183.4	86948.2	123332.7	158387.0	199525.3	245284.0
-5°	7358.3	8691.6	10783.0	16431.9	29650.5	51441.2	81220.8	115835.7	150025.7	187078.8	227903.0
-7.5°	7235.2	8451.1	10369.7	15128.2	26260.7	45341.4	71939.1	103785.3	136745.8	168531.4	204222.2
-10°	7065.1	8119.5	9801.4	13341.7	21636.0	37067.4	59446.0	87877.0	119015.8	147695.7	175609.2
-12.5°	6850.1	7701.5	9087.4	11114.1	16803.9	28952.6	47329.3	70829.4	97271.5	124297.0	147695.7
-15°	6608.3	7314.4	8471.5	10187.7	13911.2	21530.0	34203.5	52649.6	74733.9	97271.5	119015.8
-17.5°	6384.6	6992.2	7848.7	9131.5	10948.4	15650.8	24436.3	36712.4	52649.6	70829.4	87877.0
-20°	6133.0	6637.5	7287.3	8293.0	9682.3	11745.0	16240.8	24436.3	34203.5	47329.3	59446.0



REPORT NUMBER: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-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°	5892.1	6339.3	6861.4	7477.1	8519.5	9868.6	11745.0	15650.8	21530.0	28952.6	37067.4
-25°	5646.8	6023.7	6465.6	6978.3	7586.0	8519.5	9682.3	10948.4	13911.2	16803.9	21636.0
-27.5°	5394.4	5743.1	6098.9	6508.1	6978.3	7477.1	8293.0	9131.5	10187.7	11114.1	13341.7
-30°	5132.3	5453.3	5775.5	6098.9	6465.6	6861.4	7287.3	7848.7	8471.5	9087.4	9801.4
-32.5°	4509.7	5161.0	5453.3	5743.1	6023.7	6339.3	6637.5	6992.2	7314.4	7701.5	8119.5
-35°	3773.5	4509.7	5132.3	5394.4	5646.8	5892.1	6133.0	6384.6	6608.3	6850.1	7065.1
-37.5°	2889.3	3693.0	4373.9	4973.7	5278.1	5493.3	5699.2	5889.3	6058.9	6237.3	6385.9
-40°	2496.0	2732.6	3453.2	4105.4	4632.0	5107.1	5290.7	5456.3	5605.4	5739.5	5850.9
-42.5°	2336.2	2458.6	2568.9	3059.0	3654.7	4164.2	4579.6	4953.4	5173.7	5290.0	5386.4
-45°	2146.5	2277.6	2397.1	2494.1	2584.6	3030.3	3497.2	3916.6	4229.9	4491.1	4707.3
-47.5°	1922.0	2069.3	2191.0	2299.9	2396.6	2474.0	2544.6	2660.5	3000.8	3292.4	3533.6
-50°	1688.4	1821.6	1951.2	2072.7	2171.9	2258.3	2336.8	2401.4	2452.5	2496.3	2532.5
-52.5°	1459.1	1579.0	1694.0	1802.7	1907.0	2002.8	2089.8	2156.8	2213.5	2261.9	2301.9
-55°	1269.4	1360.5	1446.3	1540.4	1632.4	1716.8	1793.9	1865.2	1927.6	1980.9	2024.8
-57.5°	1073.5	1159.5	1239.9	1313.5	1381.6	1444.1	1508.4	1570.7	1625.3	1671.9	1710.2
-60°	875.6	952.8	1026.7	1095.7	1159.5	1217.9	1269.4	1315.3	1355.3	1389.5	1417.6
-62.5°	683.8	748.2	814.1	875.6	932.3	984.7	1032.5	1075.1	1112.3	1144.0	1170.0
-65°	526.1	576.3	623.3	667.1	707.9	754.6	796.7	834.2	866.9	894.8	917.7
-67.5°	363.8	409.8	452.9	492.9	529.3	562.2	591.9	618.3	641.3	660.9	677.0
-70°	220.9	253.1	283.2	314.0	346.5	376.3	403.1	426.9	447.7	465.3	479.8
-72.5°	114.1	128.3	144.6	168.9	191.3	211.8	230.2	246.6	260.9	273.0	283.0
-75°	53.9	60.0	71.2	81.7	91.4	100.2	108.1	115.1	121.3	126.5	130.8
-77.5°	34.5	37.5	40.2	42.7	45.0	47.2	49.1	50.8	52.3	53.5	54.6
-80°	23.8	24.9	26.0	27.0	28.0	28.8	29.6	30.3	30.8	31.4	31.8
-82.5°	15.9	16.5	17.1	17.6	18.1	18.5	19.0	19.3	19.6	19.9	20.1
-85°	10.1	10.4	10.6	10.8	11.0	11.2	11.4	11.5	11.6	11.8	11.8
-87.5°	5.6	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.6	6.7
-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: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-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°	6.7	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.6	6.6	6.5
85°	11.9	12.0	12.0	12.0	12.0	12.0	11.9	11.8	11.8	11.6	11.5
82.5°	20.3	20.4	20.5	20.5	20.5	20.4	20.3	20.1	19.9	19.6	19.3
80°	32.1	32.3	32.5	32.5	32.5	32.3	32.1	31.8	31.4	30.8	30.3
77.5°	55.4	55.9	56.3	56.4	56.3	55.9	55.4	54.6	53.5	52.3	50.8
75°	134.1	136.5	137.9	138.4	137.9	136.5	134.1	130.8	126.5	121.3	115.1
72.5°	290.8	296.3	299.7	300.8	299.7	296.3	290.8	283.0	273.0	260.9	246.6
70°	491.2	499.3	504.2	505.8	504.2	499.3	491.2	479.8	465.3	447.7	426.9
67.5°	689.6	698.6	704.0	705.8	704.0	698.6	689.6	677.0	660.9	641.3	618.3
65°	935.6	948.4	956.1	958.7	956.1	948.4	935.6	917.7	894.8	866.9	834.2
62.5°	1190.4	1205.0	1213.8	1216.7	1213.8	1205.0	1190.4	1170.0	1144.0	1112.3	1075.1
60°	1439.6	1455.4	1464.8	1468.0	1464.8	1455.4	1439.6	1417.6	1389.5	1355.3	1315.3
57.5°	1740.2	1761.7	1774.7	1779.0	1774.7	1761.7	1740.2	1710.2	1671.9	1625.3	1570.7
55°	2059.2	2083.9	2098.7	2103.7	2098.7	2083.9	2059.2	2024.8	1980.9	1927.6	1865.2
52.5°	2333.2	2355.7	2369.2	2373.7	2369.2	2355.7	2333.2	2301.9	2261.9	2213.5	2156.8
50°	2560.8	2581.1	2593.4	2597.5	2593.4	2581.1	2560.8	2532.5	2496.3	2452.5	2401.4
47.5°	3722.7	3858.7	3940.7	3968.1	3940.7	3858.7	3722.7	3533.6	3292.4	3000.8	2660.5
45°	4877.2	4999.4	5073.1	5097.7	5073.1	4999.4	4877.2	4707.3	4491.1	4229.9	3916.6
42.5°	5462.2	5516.8	5549.8	5560.8	5549.8	5516.8	5462.2	5386.4	5290.0	5173.7	4953.4
40°	5938.7	6002.0	6040.2	6053.0	6040.2	6002.0	5938.7	5850.9	5739.5	5605.4	5456.3
37.5°	6503.2	6587.9	6639.1	6656.2	6639.1	6587.9	6503.2	6385.9	6237.3	6058.9	5889.3
35°	7235.2	7358.3	7432.8	7457.7	7432.8	7358.3	7235.2	7065.1	6850.1	6608.3	6384.6
32.5°	8451.1	8691.6	8837.4	8886.3	8837.4	8691.6	8451.1	8119.5	7701.5	7314.4	6992.2
30°	10369.7	10783.0	11034.0	11118.2	11034.0	10783.0	10369.7	9801.4	9087.4	8471.5	7848.7
27.5°	15128.2	16431.9	17225.8	17492.4	17225.8	16431.9	15128.2	13341.7	11114.1	10187.7	9131.5
25°	26260.7	29650.5	31721.3	32418.0	31721.3	29650.5	26260.7	21636.0	16803.9	13911.2	10948.4
22.5°	45341.4	51441.2	55183.4	56445.2	55183.4	51441.2	45341.4	37067.4	28952.6	21530.0	15650.8
20°	71939.1	81220.8	86948.2	88885.4	86948.2	81220.8	71939.1	59446.0	47329.3	34203.5	24436.3
17.5°	103785.3	115835.7	123332.7	125879.9	123332.7	115835.7	103785.3	87877.0	70829.4	52649.6	36712.4
15°	136745.8	150025.7	158387.0	161247.4	158387.0	150025.7	136745.8	119015.8	97271.5	74733.9	52649.6
12.5°	168531.4	187078.8	199525.3	203818.1	199525.3	187078.8	168531.4	147695.7	124297.0	97271.5	70829.4
10°	204222.2	227903.0	245284.0	251539.3	245284.0	227903.0	204222.2	175609.2	147695.7	119015.8	87877.0
7.5°	239397.2	271365.5	289048.8	294298.8	289048.8	271365.5	239397.2	204222.2	168531.4	136745.8	103785.3
5°	271365.5	299939.0	316294.8	321953.2	316294.8	299939.0	271365.5	227903.0	187078.8	150025.7	115835.7
2.5°	289048.8	316294.8	338997.9	354403.6	338997.9	316294.8	289048.8	245284.0	199525.3	158387.0	123332.7
0°	294298.8	321953.2	354403.6	376021.3	354403.6	321953.2	294298.8	251539.3	203818.1	161247.4	125879.9
-2.5°	289048.8	316294.8	338997.9	354403.6	338997.9	316294.8	289048.8	245284.0	199525.3	158387.0	123332.7
-5°	271365.5	299939.0	316294.8	321953.2	316294.8	299939.0	271365.5	227903.0	187078.8	150025.7	115835.7
-7.5°	239397.2	271365.5	289048.8	294298.8	289048.8	271365.5	239397.2	204222.2	168531.4	136745.8	103785.3
-10°	204222.2	227903.0	245284.0	251539.3	245284.0	227903.0	204222.2	175609.2	147695.7	119015.8	87877.0
-12.5°	168531.4	187078.8	199525.3	203818.1	199525.3	187078.8	168531.4	147695.7	124297.0	97271.5	70829.4
-15°	136745.8	150025.7	158387.0	161247.4	158387.0	150025.7	136745.8	119015.8	97271.5	74733.9	52649.6
-17.5°	103785.3	115835.7	123332.7	125879.9	123332.7	115835.7	103785.3	87877.0	70829.4	52649.6	36712.4
-20°	71939.1	81220.8	86948.2	88885.4	86948.2	81220.8	71939.1	59446.0	47329.3	34203.5	24436.3



REPORT NUMBER: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-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°	45341.4	51441.2	55183.4	56445.2	55183.4	51441.2	45341.4	37067.4	28952.6	21530.0	15650.8
-25°	26260.7	29650.5	31721.3	32418.0	31721.3	29650.5	26260.7	21636.0	16803.9	13911.2	10948.4
-27.5°	15128.2	16431.9	17225.8	17492.4	17225.8	16431.9	15128.2	13341.7	11114.1	10187.7	9131.5
-30°	10369.7	10783.0	11034.0	11118.2	11034.0	10783.0	10369.7	9801.4	9087.4	8471.5	7848.7
-32.5°	8451.1	8691.6	8837.4	8886.3	8837.4	8691.6	8451.1	8119.5	7701.5	7314.4	6992.2
-35°	7235.2	7358.3	7432.8	7457.7	7432.8	7358.3	7235.2	7065.1	6850.1	6608.3	6384.6
-37.5°	6503.2	6587.9	6639.1	6656.2	6639.1	6587.9	6503.2	6385.9	6237.3	6058.9	5889.3
-40°	5938.7	6002.0	6040.2	6053.0	6040.2	6002.0	5938.7	5850.9	5739.5	5605.4	5456.3
-42.5°	5462.2	5516.8	5549.8	5560.8	5549.8	5516.8	5462.2	5386.4	5290.0	5173.7	4953.4
-45°	4877.2	4999.4	5073.1	5097.7	5073.1	4999.4	4877.2	4707.3	4491.1	4229.9	3916.6
-47.5°	3722.7	3858.7	3940.7	3968.1	3940.7	3858.7	3722.7	3533.6	3292.4	3000.8	2660.5
-50°	2560.8	2581.1	2593.4	2597.5	2593.4	2581.1	2560.8	2532.5	2496.3	2452.5	2401.4
-52.5°	2333.2	2355.7	2369.2	2373.7	2369.2	2355.7	2333.2	2301.9	2261.9	2213.5	2156.8
-55°	2059.2	2083.9	2098.7	2103.7	2098.7	2083.9	2059.2	2024.8	1980.9	1927.6	1865.2
-57.5°	1740.2	1761.7	1774.7	1779.0	1774.7	1761.7	1740.2	1710.2	1671.9	1625.3	1570.7
-60°	1439.6	1455.4	1464.8	1468.0	1464.8	1455.4	1439.6	1417.6	1389.5	1355.3	1315.3
-62.5°	1190.4	1205.0	1213.8	1216.7	1213.8	1205.0	1190.4	1170.0	1144.0	1112.3	1075.1
-65°	935.6	948.4	956.1	958.7	956.1	948.4	935.6	917.7	894.8	866.9	834.2
-67.5°	689.6	698.6	704.0	705.8	704.0	698.6	689.6	677.0	660.9	641.3	618.3
-70°	491.2	499.3	504.2	505.8	504.2	499.3	491.2	479.8	465.3	447.7	426.9
-72.5°	290.8	296.3	299.7	300.8	299.7	296.3	290.8	283.0	273.0	260.9	246.6
-75°	134.1	136.5	137.9	138.4	137.9	136.5	134.1	130.8	126.5	121.3	115.1
-77.5°	55.4	55.9	56.3	56.4	56.3	55.9	55.4	54.6	53.5	52.3	50.8
-80°	32.1	32.3	32.5	32.5	32.5	32.3	32.1	31.8	31.4	30.8	30.3
-82.5°	20.3	20.4	20.5	20.5	20.5	20.4	20.3	20.1	19.9	19.6	19.3
-85°	11.9	12.0	12.0	12.0	12.0	12.0	11.9	11.8	11.8	11.6	11.5
-87.5°	6.7	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.6	6.6	6.5
-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: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-HEG

**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°	6.4	6.3	6.2	6.0	5.9	5.7	5.6	5.4	5.2	5.0	4.8
85°	11.4	11.2	11.0	10.8	10.6	10.4	10.1	9.8	9.6	9.3	8.9
82.5°	19.0	18.5	18.1	17.6	17.1	16.5	15.9	15.2	14.5	13.8	13.0
80°	29.6	28.8	28.0	27.0	26.0	24.9	23.8	22.5	21.2	20.0	19.0
77.5°	49.1	47.2	45.0	42.7	40.2	37.5	34.5	32.0	30.3	28.6	26.8
75°	108.1	100.2	91.4	81.7	71.2	60.0	53.9	50.2	46.2	42.1	37.7
72.5°	230.2	211.8	191.3	168.9	144.6	128.3	114.1	99.1	83.2	66.5	54.3
70°	403.1	376.3	346.5	314.0	283.2	253.1	220.9	186.7	150.7	125.5	105.5
67.5°	591.9	562.2	529.3	492.9	452.9	409.8	363.8	315.1	271.4	228.6	183.9
65°	796.7	754.6	707.9	667.1	623.3	576.3	526.1	472.2	414.7	354.5	293.5
62.5°	1032.5	984.7	932.3	875.6	814.1	748.2	683.8	625.0	563.0	497.9	428.5
60°	1269.4	1217.9	1159.5	1095.7	1026.7	952.8	875.6	793.9	707.9	636.3	562.2
57.5°	1508.4	1444.1	1381.6	1313.5	1239.9	1159.5	1073.5	982.5	888.4	790.5	692.1
55°	1793.9	1716.8	1632.4	1540.4	1446.3	1360.5	1269.4	1172.1	1068.6	960.4	850.2
52.5°	2089.8	2002.8	1907.0	1802.7	1694.0	1579.0	1459.1	1355.3	1246.5	1130.9	1010.0
50°	2336.8	2258.3	2171.9	2072.7	1951.2	1821.6	1688.4	1550.2	1417.6	1296.0	1168.6
47.5°	2544.6	2474.0	2396.6	2299.9	2191.0	2069.3	1922.0	1767.9	1613.2	1455.4	1320.9
45°	3497.2	3030.3	2584.6	2494.1	2397.1	2277.6	2146.5	1989.9	1817.7	1644.9	1468.0
42.5°	4579.6	4164.2	3654.7	3059.0	2568.9	2458.6	2336.2	2189.8	2024.2	1834.5	1644.9
40°	5290.7	5107.1	4632.0	4105.4	3453.2	2732.6	2496.0	2365.8	2204.4	2024.2	1817.7
37.5°	5699.2	5493.3	5278.1	4973.7	4373.9	3693.0	2889.3	2508.6	2365.8	2189.8	1989.9
35°	6133.0	5892.1	5646.8	5394.4	5132.3	4509.7	3773.5	2889.3	2496.0	2336.2	2146.5
32.5°	6637.5	6339.3	6023.7	5743.1	5453.3	5161.0	4509.7	3693.0	2732.6	2458.6	2277.6
30°	7287.3	6861.4	6465.6	6098.9	5775.5	5453.3	5132.3	4373.9	3453.2	2568.9	2397.1
27.5°	8293.0	7477.1	6978.3	6508.1	6098.9	5743.1	5394.4	4973.7	4105.4	3059.0	2494.1
25°	9682.3	8519.5	7586.0	6978.3	6465.6	6023.7	5646.8	5278.1	4632.0	3654.7	2584.6
22.5°	11745.0	9868.6	8519.5	7477.1	6861.4	6339.3	5892.1	5493.3	5107.1	4164.2	3030.3
20°	16240.8	11745.0	9682.3	8293.0	7287.3	6637.5	6133.0	5699.2	5290.7	4579.6	3497.2
17.5°	24436.3	15650.8	10948.4	9131.5	7848.7	6992.2	6384.6	5889.3	5456.3	4953.4	3916.6
15°	34203.5	21530.0	13911.2	10187.7	8471.5	7314.4	6608.3	6058.9	5605.4	5173.7	4229.9
12.5°	47329.3	28952.6	16803.9	11114.1	9087.4	7701.5	6850.1	6237.3	5739.5	5290.0	4491.1
10°	59446.0	37067.4	21636.0	13341.7	9801.4	8119.5	7065.1	6385.9	5850.9	5386.4	4707.3
7.5°	71939.1	45341.4	26260.7	15128.2	10369.7	8451.1	7235.2	6503.2	5938.7	5462.2	4877.2
5°	81220.8	51441.2	29650.5	16431.9	10783.0	8691.6	7358.3	6587.9	6002.0	5516.8	4999.4
2.5°	86948.2	55183.4	31721.3	17225.8	11034.0	8837.4	7432.8	6639.1	6040.2	5549.8	5073.1
0°	88885.4	56445.2	32418.0	17492.4	11118.2	8886.3	7457.7	6656.2	6053.0	5560.8	5097.7
-2.5°	86948.2	55183.4	31721.3	17225.8	11034.0	8837.4	7432.8	6639.1	6040.2	5549.8	5073.1
-5°	81220.8	51441.2	29650.5	16431.9	10783.0	8691.6	7358.3	6587.9	6002.0	5516.8	4999.4
-7.5°	71939.1	45341.4	26260.7	15128.2	10369.7	8451.1	7235.2	6503.2	5938.7	5462.2	4877.2
-10°	59446.0	37067.4	21636.0	13341.7	9801.4	8119.5	7065.1	6385.9	5850.9	5386.4	4707.3
-12.5°	47329.3	28952.6	16803.9	11114.1	9087.4	7701.5	6850.1	6237.3	5739.5	5290.0	4491.1
-15°	34203.5	21530.0	13911.2	10187.7	8471.5	7314.4	6608.3	6058.9	5605.4	5173.7	4229.9
-17.5°	24436.3	15650.8	10948.4	9131.5	7848.7	6992.2	6384.6	5889.3	5456.3	4953.4	3916.6
-20°	16240.8	11745.0	9682.3	8293.0	7287.3	6637.5	6133.0	5699.2	5290.7	4579.6	3497.2



REPORT NUMBER: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	11745.0	9868.6	8519.5	7477.1	6861.4	6339.3	5892.1	5493.3	5107.1	4164.2	3030.3
-25°	9682.3	8519.5	7586.0	6978.3	6465.6	6023.7	5646.8	5278.1	4632.0	3654.7	2584.6
-27.5°	8293.0	7477.1	6978.3	6508.1	6098.9	5743.1	5394.4	4973.7	4105.4	3059.0	2494.1
-30°	7287.3	6861.4	6465.6	6098.9	5775.5	5453.3	5132.3	4373.9	3453.2	2568.9	2397.1
-32.5°	6637.5	6339.3	6023.7	5743.1	5453.3	5161.0	4509.7	3693.0	2732.6	2458.6	2277.6
-35°	6133.0	5892.1	5646.8	5394.4	5132.3	4509.7	3773.5	2889.3	2496.0	2336.2	2146.5
-37.5°	5699.2	5493.3	5278.1	4973.7	4373.9	3693.0	2889.3	2508.6	2365.8	2189.8	1989.9
-40°	5290.7	5107.1	4632.0	4105.4	3453.2	2732.6	2496.0	2365.8	2204.4	2024.2	1817.7
-42.5°	4579.6	4164.2	3654.7	3059.0	2568.9	2458.6	2336.2	2189.8	2024.2	1834.5	1644.9
-45°	3497.2	3030.3	2584.6	2494.1	2397.1	2277.6	2146.5	1989.9	1817.7	1644.9	1468.0
-47.5°	2544.6	2474.0	2396.6	2299.9	2191.0	2069.3	1922.0	1767.9	1613.2	1455.4	1320.9
-50°	2336.8	2258.3	2171.9	2072.7	1951.2	1821.6	1688.4	1550.2	1417.6	1296.0	1168.6
-52.5°	2089.8	2002.8	1907.0	1802.7	1694.0	1579.0	1459.1	1355.3	1246.5	1130.9	1010.0
-55°	1793.9	1716.8	1632.4	1540.4	1446.3	1360.5	1269.4	1172.1	1068.6	960.4	850.2
-57.5°	1508.4	1444.1	1381.6	1313.5	1239.9	1159.5	1073.5	982.5	888.4	790.5	692.1
-60°	1269.4	1217.9	1159.5	1095.7	1026.7	952.8	875.6	793.9	707.9	636.3	562.2
-62.5°	1032.5	984.7	932.3	875.6	814.1	748.2	683.8	625.0	563.0	497.9	428.5
-65°	796.7	754.6	707.9	667.1	623.3	576.3	526.1	472.2	414.7	354.5	293.5
-67.5°	591.9	562.2	529.3	492.9	452.9	409.8	363.8	315.1	271.4	228.6	183.9
-70°	403.1	376.3	346.5	314.0	283.2	253.1	220.9	186.7	150.7	125.5	105.5
-72.5°	230.2	211.8	191.3	168.9	144.6	128.3	114.1	99.1	83.2	66.5	54.3
-75°	108.1	100.2	91.4	81.7	71.2	60.0	53.9	50.2	46.2	42.1	37.7
-77.5°	49.1	47.2	45.0	42.7	40.2	37.5	34.5	32.0	30.3	28.6	26.8
-80°	29.6	28.8	28.0	27.0	26.0	24.9	23.8	22.5	21.2	20.0	19.0
-82.5°	19.0	18.5	18.1	17.6	17.1	16.5	15.9	15.2	14.5	13.8	13.0
-85°	11.4	11.2	11.0	10.8	10.6	10.4	10.1	9.8	9.6	9.3	8.9
-87.5°	6.4	6.3	6.2	6.0	5.9	5.7	5.6	5.4	5.2	5.0	4.8
-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: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-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°	4.6	4.4	4.1	3.9	3.7	3.4	3.1	2.9	2.6	2.3	2.0
85°	8.6	8.3	7.9	7.6	7.2	6.8	6.3	5.7	5.2	4.6	4.1
82.5°	12.2	11.6	11.1	10.5	10.0	9.4	8.8	8.2	7.6	6.9	6.1
80°	17.9	16.8	15.6	14.4	13.2	12.0	11.2	10.4	9.5	8.7	7.8
77.5°	24.9	22.9	20.8	19.2	17.7	16.1	14.5	12.8	11.5	10.4	9.4
75°	33.2	30.5	28.0	25.5	22.9	20.3	18.3	16.4	14.3	12.3	10.9
72.5°	49.0	43.4	37.7	32.2	29.1	26.0	22.8	19.8	17.5	15.1	12.6
70°	84.6	63.0	51.8	45.1	38.1	31.8	28.1	24.4	20.6	17.8	15.1
67.5°	137.9	113.5	88.3	62.3	50.3	42.4	34.2	29.2	24.9	20.6	17.5
65°	241.7	187.9	135.4	106.5	76.9	53.5	44.5	35.3	29.2	24.4	19.8
62.5°	356.3	285.6	224.5	161.7	117.6	84.2	54.6	44.5	34.2	28.1	22.8
60°	484.7	403.1	318.9	246.6	176.3	121.3	84.2	53.5	42.4	31.8	26.0
57.5°	608.5	522.1	431.4	337.7	254.0	176.3	117.6	76.9	50.3	38.1	29.1
55°	736.1	636.6	540.7	440.8	337.7	246.6	161.7	106.5	62.3	45.1	32.2
52.5°	886.4	760.0	646.0	540.7	431.4	318.9	224.5	135.4	88.3	51.8	37.7
50°	1034.9	898.5	760.0	636.6	522.1	403.1	285.6	187.9	113.5	63.0	43.4
47.5°	1181.2	1034.9	886.4	736.1	608.5	484.7	356.3	241.7	137.9	84.6	49.0
45°	1320.9	1168.6	1010.0	850.2	692.1	562.2	428.5	293.5	183.9	105.5	54.3
42.5°	1455.4	1296.0	1130.9	960.4	790.5	636.3	497.9	354.5	228.6	125.5	66.5
40°	1613.2	1417.6	1246.5	1068.6	888.4	707.9	563.0	414.7	271.4	150.7	83.2
37.5°	1767.9	1550.2	1355.3	1172.1	982.5	793.9	625.0	472.2	315.1	186.7	99.1
35°	1922.0	1688.4	1459.1	1269.4	1073.5	875.6	683.8	526.1	363.8	220.9	114.1
32.5°	2069.3	1821.6	1579.0	1360.5	1159.5	952.8	748.2	576.3	409.8	253.1	128.3
30°	2191.0	1951.2	1694.0	1446.3	1239.9	1026.7	814.1	623.3	452.9	283.2	144.6
27.5°	2299.9	2072.7	1802.7	1540.4	1313.5	1095.7	875.6	667.1	492.9	314.0	168.9
25°	2396.6	2171.9	1907.0	1632.4	1381.6	1159.5	932.3	707.9	529.3	346.5	191.3
22.5°	2474.0	2258.3	2002.8	1716.8	1444.1	1217.9	984.7	754.6	562.2	376.3	211.8
20°	2544.6	2336.8	2089.8	1793.9	1508.4	1269.4	1032.5	796.7	591.9	403.1	230.2
17.5°	2660.5	2401.4	2156.8	1865.2	1570.7	1315.3	1075.1	834.2	618.3	426.9	246.6
15°	3000.8	2452.5	2213.5	1927.6	1625.3	1355.3	1112.3	866.9	641.3	447.7	260.9
12.5°	3292.4	2496.3	2261.9	1980.9	1671.9	1389.5	1144.0	894.8	660.9	465.3	273.0
10°	3533.6	2532.5	2301.9	2024.8	1710.2	1417.6	1170.0	917.7	677.0	479.8	283.0
7.5°	3722.7	2560.8	2333.2	2059.2	1740.2	1439.6	1190.4	935.6	689.6	491.2	290.8
5°	3858.7	2581.1	2355.7	2083.9	1761.7	1455.4	1205.0	948.4	698.6	499.3	296.3
2.5°	3940.7	2593.4	2369.2	2098.7	1774.7	1464.8	1213.8	956.1	704.0	504.2	299.7
0°	3968.1	2597.5	2373.7	2103.7	1779.0	1468.0	1216.7	958.7	705.8	505.8	300.8
-2.5°	3940.7	2593.4	2369.2	2098.7	1774.7	1464.8	1213.8	956.1	704.0	504.2	299.7
-5°	3858.7	2581.1	2355.7	2083.9	1761.7	1455.4	1205.0	948.4	698.6	499.3	296.3
-7.5°	3722.7	2560.8	2333.2	2059.2	1740.2	1439.6	1190.4	935.6	689.6	491.2	290.8
-10°	3533.6	2532.5	2301.9	2024.8	1710.2	1417.6	1170.0	917.7	677.0	479.8	283.0
-12.5°	3292.4	2496.3	2261.9	1980.9	1671.9	1389.5	1144.0	894.8	660.9	465.3	273.0
-15°	3000.8	2452.5	2213.5	1927.6	1625.3	1355.3	1112.3	866.9	641.3	447.7	260.9
-17.5°	2660.5	2401.4	2156.8	1865.2	1570.7	1315.3	1075.1	834.2	618.3	426.9	246.6
-20°	2544.6	2336.8	2089.8	1793.9	1508.4	1269.4	1032.5	796.7	591.9	403.1	230.2



REPORT NUMBER: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2474.0	2258.3	2002.8	1716.8	1444.1	1217.9	984.7	754.6	562.2	376.3	211.8
-25°	2396.6	2171.9	1907.0	1632.4	1381.6	1159.5	932.3	707.9	529.3	346.5	191.3
-27.5°	2299.9	2072.7	1802.7	1540.4	1313.5	1095.7	875.6	667.1	492.9	314.0	168.9
-30°	2191.0	1951.2	1694.0	1446.3	1239.9	1026.7	814.1	623.3	452.9	283.2	144.6
-32.5°	2069.3	1821.6	1579.0	1360.5	1159.5	952.8	748.2	576.3	409.8	253.1	128.3
-35°	1922.0	1688.4	1459.1	1269.4	1073.5	875.6	683.8	526.1	363.8	220.9	114.1
-37.5°	1767.9	1550.2	1355.3	1172.1	982.5	793.9	625.0	472.2	315.1	186.7	99.1
-40°	1613.2	1417.6	1246.5	1068.6	888.4	707.9	563.0	414.7	271.4	150.7	83.2
-42.5°	1455.4	1296.0	1130.9	960.4	790.5	636.3	497.9	354.5	228.6	125.5	66.5
-45°	1320.9	1168.6	1010.0	850.2	692.1	562.2	428.5	293.5	183.9	105.5	54.3
-47.5°	1181.2	1034.9	886.4	736.1	608.5	484.7	356.3	241.7	137.9	84.6	49.0
-50°	1034.9	898.5	760.0	636.6	522.1	403.1	285.6	187.9	113.5	63.0	43.4
-52.5°	886.4	760.0	646.0	540.7	431.4	318.9	224.5	135.4	88.3	51.8	37.7
-55°	736.1	636.6	540.7	440.8	337.7	246.6	161.7	106.5	62.3	45.1	32.2
-57.5°	608.5	522.1	431.4	337.7	254.0	176.3	117.6	76.9	50.3	38.1	29.1
-60°	484.7	403.1	318.9	246.6	176.3	121.3	84.2	53.5	42.4	31.8	26.0
-62.5°	356.3	285.6	224.5	161.7	117.6	84.2	54.6	44.5	34.2	28.1	22.8
-65°	241.7	187.9	135.4	106.5	76.9	53.5	44.5	35.3	29.2	24.4	19.8
-67.5°	137.9	113.5	88.3	62.3	50.3	42.4	34.2	29.2	24.9	20.6	17.5
-70°	84.6	63.0	51.8	45.1	38.1	31.8	28.1	24.4	20.6	17.8	15.1
-72.5°	49.0	43.4	37.7	32.2	29.1	26.0	22.8	19.8	17.5	15.1	12.6
-75°	33.2	30.5	28.0	25.5	22.9	20.3	18.3	16.4	14.3	12.3	10.9
-77.5°	24.9	22.9	20.8	19.2	17.7	16.1	14.5	12.8	11.5	10.4	9.4
-80°	17.9	16.8	15.6	14.4	13.2	12.0	11.2	10.4	9.5	8.7	7.8
-82.5°	12.2	11.6	11.1	10.5	10.0	9.4	8.8	8.2	7.6	6.9	6.1
-85°	8.6	8.3	7.9	7.6	7.2	6.8	6.3	5.7	5.2	4.6	4.1
-87.5°	4.6	4.4	4.1	3.9	3.7	3.4	3.1	2.9	2.6	2.3	2.0
-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: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-HEG

**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°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
85°	3.5	2.9	2.4	1.8	1.2	0.6	0.0
82.5°	5.3	4.4	3.5	2.7	1.8	0.9	0.0
80°	7.0	5.9	4.7	3.5	2.4	1.2	0.0
77.5°	8.3	7.2	5.9	4.4	2.9	1.5	0.0
75°	9.6	8.3	7.0	5.3	3.5	1.8	0.0
72.5°	10.9	9.4	7.8	6.1	4.1	2.0	0.0
70°	12.3	10.4	8.7	6.9	4.6	2.3	0.0
67.5°	14.3	11.5	9.5	7.6	5.2	2.6	0.0
65°	16.4	12.8	10.4	8.2	5.7	2.9	0.0
62.5°	18.3	14.5	11.2	8.8	6.3	3.1	0.0
60°	20.3	16.1	12.0	9.4	6.8	3.4	0.0
57.5°	22.9	17.7	13.2	10.0	7.2	3.7	0.0
55°	25.5	19.2	14.4	10.5	7.6	3.9	0.0
52.5°	28.0	20.8	15.6	11.1	7.9	4.1	0.0
50°	30.5	22.9	16.8	11.6	8.3	4.4	0.0
47.5°	33.2	24.9	17.9	12.2	8.6	4.6	0.0
45°	37.7	26.8	19.0	13.0	8.9	4.8	0.0
42.5°	42.1	28.6	20.0	13.8	9.3	5.0	0.0
40°	46.2	30.3	21.2	14.5	9.6	5.2	0.0
37.5°	50.2	32.0	22.5	15.2	9.8	5.4	0.0
35°	53.9	34.5	23.8	15.9	10.1	5.6	0.0
32.5°	60.0	37.5	24.9	16.5	10.4	5.7	0.0
30°	71.2	40.2	26.0	17.1	10.6	5.9	0.0
27.5°	81.7	42.7	27.0	17.6	10.8	6.0	0.0
25°	91.4	45.0	28.0	18.1	11.0	6.2	0.0
22.5°	100.2	47.2	28.8	18.5	11.2	6.3	0.0
20°	108.1	49.1	29.6	19.0	11.4	6.4	0.0
17.5°	115.1	50.8	30.3	19.3	11.5	6.5	0.0
15°	121.3	52.3	30.8	19.6	11.6	6.6	0.0
12.5°	126.5	53.5	31.4	19.9	11.8	6.6	0.0
10°	130.8	54.6	31.8	20.1	11.8	6.7	0.0
7.5°	134.1	55.4	32.1	20.3	11.9	6.7	0.0
5°	136.5	55.9	32.3	20.4	12.0	6.8	0.0
2.5°	137.9	56.3	32.5	20.5	12.0	6.8	0.0
0°	138.4	56.4	32.5	20.5	12.0	6.8	0.0
-2.5°	137.9	56.3	32.5	20.5	12.0	6.8	0.0
-5°	136.5	55.9	32.3	20.4	12.0	6.8	0.0
-7.5°	134.1	55.4	32.1	20.3	11.9	6.7	0.0
-10°	130.8	54.6	31.8	20.1	11.8	6.7	0.0
-12.5°	126.5	53.5	31.4	19.9	11.8	6.6	0.0
-15°	121.3	52.3	30.8	19.6	11.6	6.6	0.0
-17.5°	115.1	50.8	30.3	19.3	11.5	6.5	0.0
-20°	108.1	49.1	29.6	19.0	11.4	6.4	0.0



REPORT NUMBER: P731278 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	100.2	47.2	28.8	18.5	11.2	6.3	0.0
-25°	91.4	45.0	28.0	18.1	11.0	6.2	0.0
-27.5°	81.7	42.7	27.0	17.6	10.8	6.0	0.0
-30°	71.2	40.2	26.0	17.1	10.6	5.9	0.0
-32.5°	60.0	37.5	24.9	16.5	10.4	5.7	0.0
-35°	53.9	34.5	23.8	15.9	10.1	5.6	0.0
-37.5°	50.2	32.0	22.5	15.2	9.8	5.4	0.0
-40°	46.2	30.3	21.2	14.5	9.6	5.2	0.0
-42.5°	42.1	28.6	20.0	13.8	9.3	5.0	0.0
-45°	37.7	26.8	19.0	13.0	8.9	4.8	0.0
-47.5°	33.2	24.9	17.9	12.2	8.6	4.6	0.0
-50°	30.5	22.9	16.8	11.6	8.3	4.4	0.0
-52.5°	28.0	20.8	15.6	11.1	7.9	4.1	0.0
-55°	25.5	19.2	14.4	10.5	7.6	3.9	0.0
-57.5°	22.9	17.7	13.2	10.0	7.2	3.7	0.0
-60°	20.3	16.1	12.0	9.4	6.8	3.4	0.0
-62.5°	18.3	14.5	11.2	8.8	6.3	3.1	0.0
-65°	16.4	12.8	10.4	8.2	5.7	2.9	0.0
-67.5°	14.3	11.5	9.5	7.6	5.2	2.6	0.0
-70°	12.3	10.4	8.7	6.9	4.6	2.3	0.0
-72.5°	10.9	9.4	7.8	6.1	4.1	2.0	0.0
-75°	9.6	8.3	7.0	5.3	3.5	1.8	0.0
-77.5°	8.3	7.2	5.9	4.4	2.9	1.5	0.0
-80°	7.0	5.9	4.7	3.5	2.4	1.2	0.0
-82.5°	5.3	4.4	3.5	2.7	1.8	0.9	0.0
-85°	3.5	2.9	2.4	1.8	1.2	0.6	0.0
-87.5°	1.8	1.5	1.2	0.9	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

