

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: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-3S-HEG**

Issue Date: 11/16/2023

**Test Information**

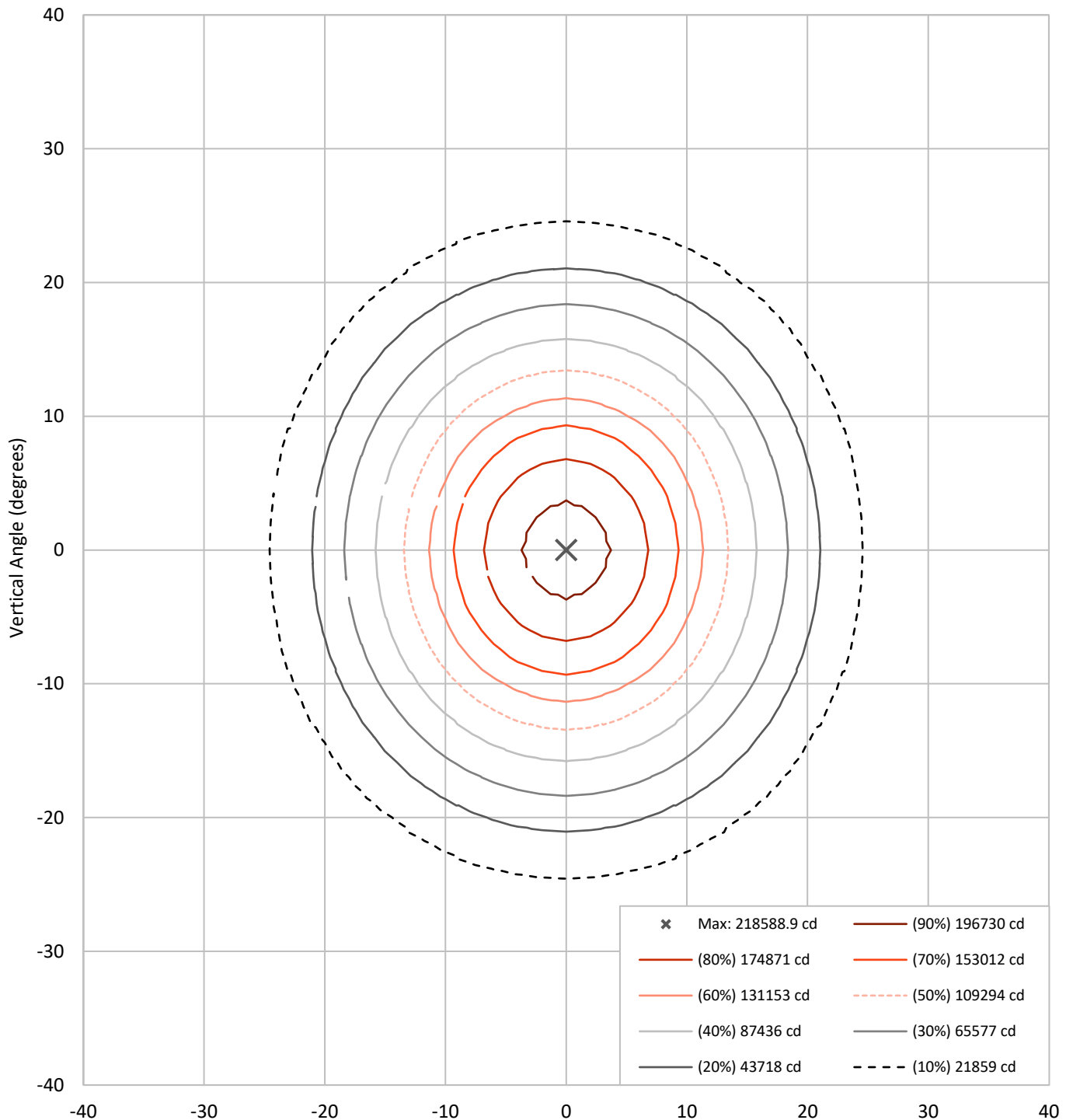
Test Method: LM-79-08  
Report Number: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-08-0320N-57-70-3S-HEG  
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 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:	59038 lumens	Max Intensity:	218588.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	170.7 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:	25597.9 lumens	Field Lumens:	49007.3 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%
Input Watts (W):	345.8		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

REPORT NUMBER: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-HEG

### Iso-Candela Plot





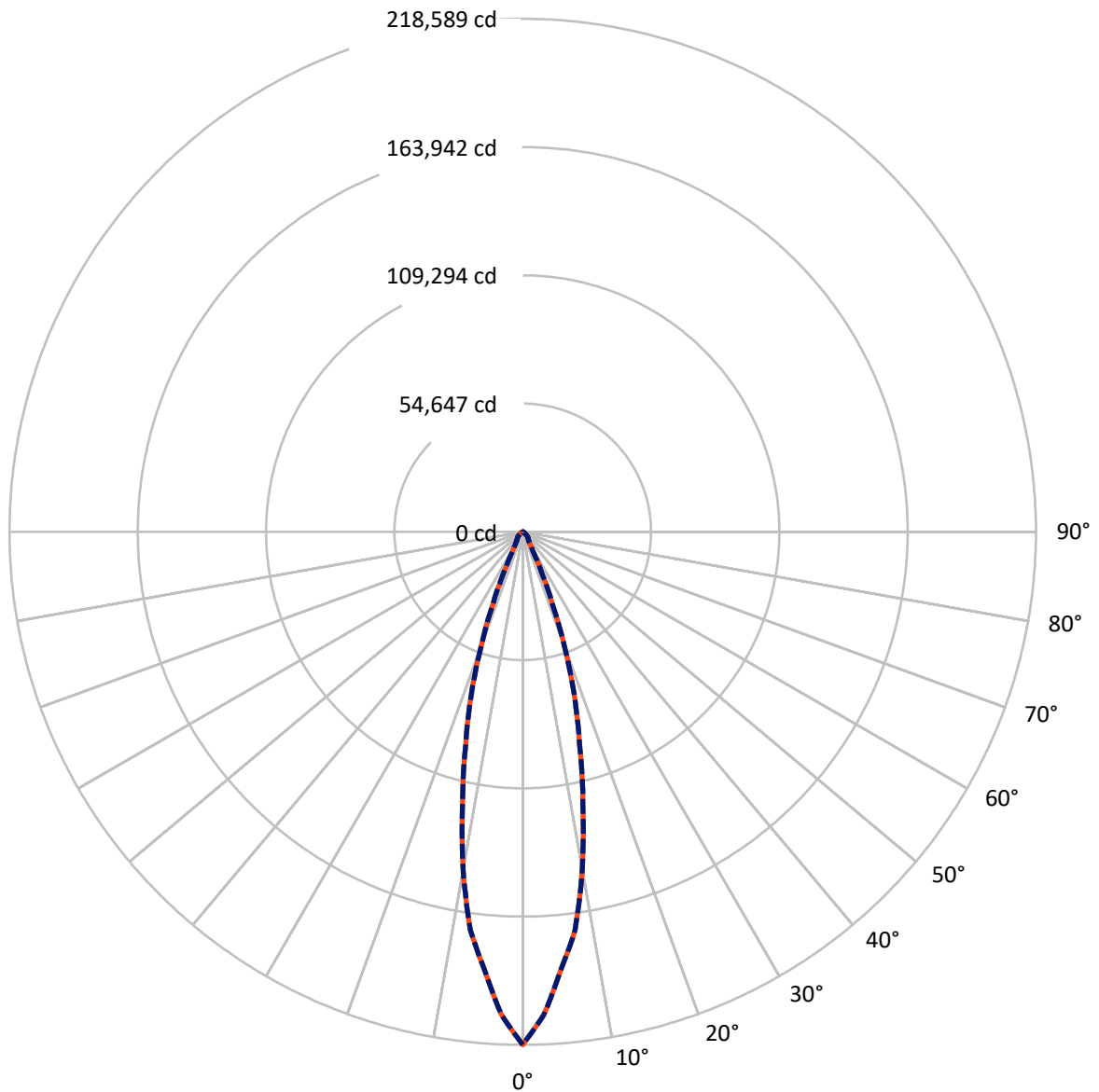
REPORT NUMBER: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-HEG

### Lumen Table

90																
80	0.1	0.5		2.0		5.3		7.1		5.3		2.0		0.5		0.1
70																
60	0.2	0.3	1.3	3.9	7.7	11.7	15.0	16.8	16.8	15.0	11.7	7.7	3.9	1.3	0.3	0.2
50		1.0	4.6	10.8	18.5	26.3	32.7	36.1	36.1	32.7	26.3	18.5	10.8	4.6	1.0	
40	0.7	2.4	8.8	18.7	30.9	48.7	69.7	81.8	81.8	69.7	48.7	30.9	18.7	8.8	2.4	0.7
30		4.1	13.0	26.8	54.6	89.9	115.6	135.8	135.8	115.6	89.9	54.6	26.8	13.0	4.1	
20	1.6	5.6	16.9	38.3	81.4	128.8	297.8	612.6	612.6	297.8	128.8	81.4	38.3	16.9	5.6	1.6
10		6.8	19.6	51.6	98.4	281.1	1303.0	2609.3	2609.3	1303.0	281.1	98.4	51.6	19.6	6.8	
0	2.0	7.3	21.0	58.6	112.3	563.9	2537.9	5005.2	5005.2	2537.9	563.9	112.3	58.6	21.0	7.3	2.0
-10		7.3	21.0	58.6	112.3	563.9	2537.9	5005.2	5005.2	2537.9	563.9	112.3	58.6	21.0	7.3	
-20	1.6	6.8	19.6	51.6	98.4	281.1	1303.0	2609.3	2609.3	1303.0	281.1	98.4	51.6	19.6	6.8	1.6
-30		5.6	16.9	38.3	81.4	128.8	297.8	612.6	612.6	297.8	128.8	81.4	38.3	16.9	5.6	
-40	0.7	4.1	13.0	26.8	54.6	89.9	115.6	135.8	135.8	115.6	89.9	54.6	26.8	13.0	4.1	0.7
-50		2.4	8.8	18.7	30.9	48.7	69.7	81.8	81.8	69.7	48.7	30.9	18.7	8.8	2.4	
-60	0.2	1.0	4.6	10.8	18.5	26.3	32.7	36.1	36.1	32.7	26.3	18.5	10.8	4.6	1.0	0.2
-70		0.3	1.3	3.9	7.7	11.7	15.0	16.8	16.8	15.0	11.7	7.7	3.9	1.3	0.3	
-80																
-90	0.1	0.5		2.0		5.3		7.1		5.3		2.0		0.5		0.1

REPORT NUMBER: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-HEG

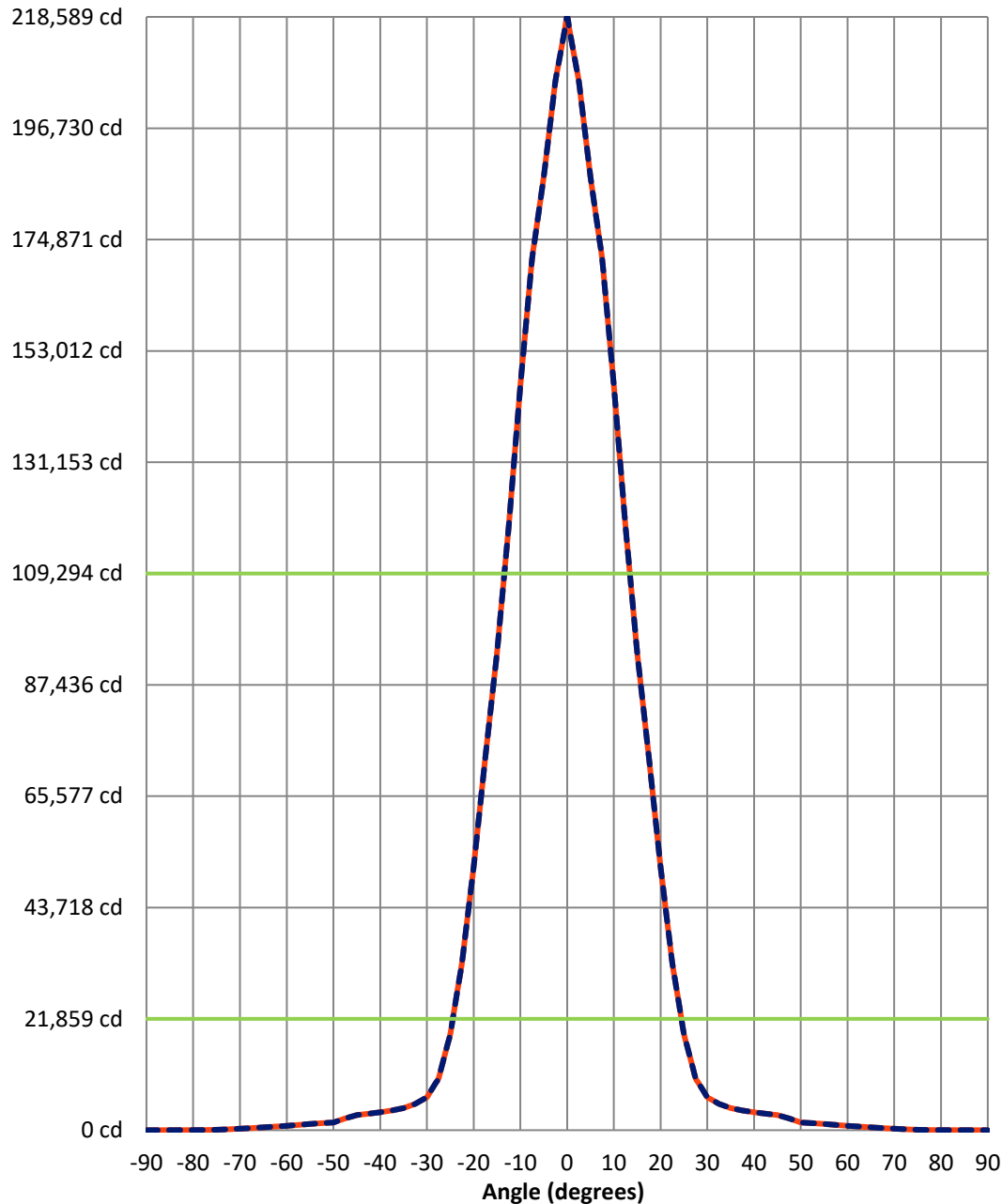
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-HEG

### Luminous Intensity Plot



**Beam:**  
 H Angle: 26.9°  
 V Angle: 26.9°  
 Lumens: 25597.9  
 Efficiency: 43.4%

**Field:**  
 H Angle: 48.9°  
 V Angle: 48.9°  
 Lumens: 49007.3  
 Efficiency: 83.0%

**Spill:**  
 Lumens: 10030.7  
 Efficiency: 17.0%

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



REPORT NUMBER: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-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	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.5	1.7
85°	0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.7	3.1	3.4
82.5°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.4	4.8
80°	0.0	0.7	1.4	2.1	2.8	3.4	4.1	4.6	5.1	5.6	6.1
77.5°	0.0	0.9	1.7	2.6	3.4	4.2	4.9	5.5	6.1	6.7	7.5
75°	0.0	1.0	2.1	3.1	4.1	4.9	5.6	6.4	7.2	8.3	9.5
72.5°	0.0	1.2	2.4	3.6	4.6	5.5	6.4	7.4	8.8	10.2	11.5
70°	0.0	1.4	2.7	4.1	5.1	6.1	7.2	8.8	10.4	12.0	14.2
67.5°	0.0	1.5	3.1	4.4	5.6	6.7	8.3	10.2	12.0	14.5	17.0
65°	0.0	1.7	3.4	4.8	6.1	7.5	9.5	11.5	14.2	17.0	20.5
62.5°	0.0	1.8	3.7	5.1	6.5	8.4	10.7	13.2	16.3	19.9	25.9
60°	0.0	2.0	4.0	5.5	7.0	9.4	11.8	15.1	18.5	24.6	31.1
57.5°	0.0	2.1	4.2	5.8	7.7	10.3	13.3	16.9	22.2	29.3	44.7
55°	0.0	2.3	4.4	6.2	8.4	11.2	14.8	18.7	26.2	36.2	62.0
52.5°	0.0	2.4	4.6	6.5	9.1	12.1	16.3	21.9	30.1	51.3	78.8
50°	0.0	2.6	4.9	6.8	9.8	13.3	17.7	25.3	36.6	66.0	109.3
47.5°	0.0	2.7	5.1	7.1	10.4	14.4	19.3	28.5	49.2	80.2	140.5
45°	0.0	2.8	5.2	7.6	11.0	15.5	21.9	31.6	61.3	106.9	170.6
42.5°	0.0	2.9	5.4	8.0	11.6	16.6	24.5	38.7	73.0	132.9	206.1
40°	0.0	3.1	5.6	8.4	12.3	17.6	26.9	48.4	87.6	157.7	241.1
37.5°	0.0	3.2	5.8	8.8	13.1	18.6	29.2	57.6	108.6	183.1	274.5
35°	0.0	3.3	5.9	9.2	13.8	20.1	31.4	66.4	128.4	211.5	305.9
32.5°	0.0	3.4	6.1	9.6	14.5	21.8	34.9	74.6	147.1	238.2	335.1
30°	0.0	3.5	6.2	9.9	15.1	23.4	41.4	84.1	164.6	263.3	362.4
27.5°	0.0	3.5	6.3	10.2	15.7	24.8	47.5	98.2	182.5	286.6	387.8
25°	0.0	3.6	6.4	10.5	16.3	26.2	53.1	111.2	201.4	307.7	411.5
22.5°	0.0	3.7	6.5	10.8	16.7	27.4	58.3	123.1	218.7	326.9	438.7
20°	0.0	3.8	6.6	11.0	17.2	28.5	62.9	133.8	234.3	344.1	463.2
17.5°	0.0	3.8	6.7	11.2	17.6	29.5	67.0	143.3	248.2	359.4	484.9
15°	0.0	3.9	6.8	11.4	17.9	30.4	70.5	151.6	260.3	372.8	504.0
12.5°	0.0	3.9	6.9	11.5	18.2	31.1	73.6	158.7	270.5	384.2	520.2
10°	0.0	3.9	6.9	11.7	18.5	31.7	76.1	164.5	279.0	393.6	533.5
7.5°	0.0	4.0	6.9	11.8	18.7	32.2	78.0	169.0	285.6	400.9	543.9
5°	0.0	4.0	7.0	11.8	18.8	32.5	79.4	172.2	290.3	406.1	551.3
2.5°	0.0	4.0	7.0	11.9	18.9	32.7	80.2	174.2	293.2	409.3	555.8
0°	0.0	4.0	7.0	11.9	18.9	32.8	80.5	174.8	294.1	410.3	557.3
-2.5°	0.0	4.0	7.0	11.9	18.9	32.7	80.2	174.2	293.2	409.3	555.8
-5°	0.0	4.0	7.0	11.8	18.8	32.5	79.4	172.2	290.3	406.1	551.3
-7.5°	0.0	4.0	6.9	11.8	18.7	32.2	78.0	169.0	285.6	400.9	543.9
-10°	0.0	3.9	6.9	11.7	18.5	31.7	76.1	164.5	279.0	393.6	533.5
-12.5°	0.0	3.9	6.9	11.5	18.2	31.1	73.6	158.7	270.5	384.2	520.2
-15°	0.0	3.9	6.8	11.4	17.9	30.4	70.5	151.6	260.3	372.8	504.0
-17.5°	0.0	3.8	6.7	11.2	17.6	29.5	67.0	143.3	248.2	359.4	484.9
-20°	0.0	3.8	6.6	11.0	17.2	28.5	62.9	133.8	234.3	344.1	463.2



REPORT NUMBER: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.7	6.5	10.8	16.7	27.4	58.3	123.1	218.7	326.9	438.7
-25°	0.0	3.6	6.4	10.5	16.3	26.2	53.1	111.2	201.4	307.7	411.5
-27.5°	0.0	3.5	6.3	10.2	15.7	24.8	47.5	98.2	182.5	286.6	387.8
-30°	0.0	3.5	6.2	9.9	15.1	23.4	41.4	84.1	164.6	263.3	362.4
-32.5°	0.0	3.4	6.1	9.6	14.5	21.8	34.9	74.6	147.1	238.2	335.1
-35°	0.0	3.3	5.9	9.2	13.8	20.1	31.4	66.4	128.4	211.5	305.9
-37.5°	0.0	3.2	5.8	8.8	13.1	18.6	29.2	57.6	108.6	183.1	274.5
-40°	0.0	3.1	5.6	8.4	12.3	17.6	26.9	48.4	87.6	157.7	241.1
-42.5°	0.0	2.9	5.4	8.0	11.6	16.6	24.5	38.7	73.0	132.9	206.1
-45°	0.0	2.8	5.2	7.6	11.0	15.5	21.9	31.6	61.3	106.9	170.6
-47.5°	0.0	2.7	5.1	7.1	10.4	14.4	19.3	28.5	49.2	80.2	140.5
-50°	0.0	2.6	4.9	6.8	9.8	13.3	17.7	25.3	36.6	66.0	109.3
-52.5°	0.0	2.4	4.6	6.5	9.1	12.1	16.3	21.9	30.1	51.3	78.8
-55°	0.0	2.3	4.4	6.2	8.4	11.2	14.8	18.7	26.2	36.2	62.0
-57.5°	0.0	2.1	4.2	5.8	7.7	10.3	13.3	16.9	22.2	29.3	44.7
-60°	0.0	2.0	4.0	5.5	7.0	9.4	11.8	15.1	18.5	24.6	31.1
-62.5°	0.0	1.8	3.7	5.1	6.5	8.4	10.7	13.2	16.3	19.9	25.9
-65°	0.0	1.7	3.4	4.8	6.1	7.5	9.5	11.5	14.2	17.0	20.5
-67.5°	0.0	1.5	3.1	4.4	5.6	6.7	8.3	10.2	12.0	14.5	17.0
-70°	0.0	1.4	2.7	4.1	5.1	6.1	7.2	8.8	10.4	12.0	14.2
-72.5°	0.0	1.2	2.4	3.6	4.6	5.5	6.4	7.4	8.8	10.2	11.5
-75°	0.0	1.0	2.1	3.1	4.1	4.9	5.6	6.4	7.2	8.3	9.5
-77.5°	0.0	0.9	1.7	2.6	3.4	4.2	4.9	5.5	6.1	6.7	7.5
-80°	0.0	0.7	1.4	2.1	2.8	3.4	4.1	4.6	5.1	5.6	6.1
-82.5°	0.0	0.5	1.0	1.6	2.1	2.6	3.1	3.6	4.1	4.4	4.8
-85°	0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.7	3.1	3.4
-87.5°	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.5	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





REPORT NUMBER: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-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°	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.8	2.9	3.1	3.2
85°	3.7	4.0	4.2	4.4	4.6	4.9	5.1	5.2	5.4	5.6	5.8
82.5°	5.1	5.5	5.8	6.2	6.5	6.8	7.1	7.6	8.0	8.4	8.8
80°	6.5	7.0	7.7	8.4	9.1	9.8	10.4	11.0	11.6	12.3	13.1
77.5°	8.4	9.4	10.3	11.2	12.1	13.3	14.4	15.5	16.6	17.6	18.6
75°	10.7	11.8	13.3	14.8	16.3	17.7	19.3	21.9	24.5	26.9	29.2
72.5°	13.2	15.1	16.9	18.7	21.9	25.3	28.5	31.6	38.7	48.4	57.6
70°	16.3	18.5	22.2	26.2	30.1	36.6	49.2	61.3	73.0	87.6	108.6
67.5°	19.9	24.6	29.3	36.2	51.3	66.0	80.2	106.9	132.9	157.7	183.1
65°	25.9	31.1	44.7	62.0	78.8	109.3	140.5	170.6	206.1	241.1	274.5
62.5°	31.7	49.0	68.4	94.0	130.5	166.0	207.1	249.1	289.5	327.3	363.3
60°	49.0	70.5	102.5	143.3	185.3	234.3	281.8	326.9	369.9	411.5	461.5
57.5°	68.4	102.5	147.6	196.3	250.8	303.6	353.8	402.4	459.5	516.4	571.2
55°	94.0	143.3	196.3	256.3	314.4	370.1	427.9	494.2	558.3	621.2	681.4
52.5°	130.5	185.3	250.8	314.4	375.5	441.8	515.2	587.1	657.4	724.6	787.9
50°	166.0	234.3	303.6	370.1	441.8	522.3	601.6	679.3	753.4	824.1	901.2
47.5°	207.1	281.8	353.8	427.9	515.2	601.6	686.7	767.9	846.0	937.8	1027.7
45°	249.1	326.9	402.4	494.2	587.1	679.3	767.9	853.4	956.2	1056.7	1156.8
42.5°	289.5	369.9	459.5	558.3	657.4	753.4	846.0	956.2	1066.5	1176.7	1273.0
40°	327.3	411.5	516.4	621.2	724.6	824.1	937.8	1056.7	1176.7	1281.4	1375.3
37.5°	363.3	461.5	571.2	681.4	787.9	901.2	1027.7	1156.8	1273.0	1375.3	1458.3
35°	397.5	509.0	624.0	737.9	848.3	981.6	1117.3	1247.8	1358.1	1451.0	1679.6
32.5°	435.0	553.9	674.1	790.9	917.9	1059.0	1202.9	1324.0	1429.3	1588.5	2146.8
30°	473.3	596.8	720.8	840.8	984.8	1134.3	1273.7	1393.5	1493.4	2007.4	2542.6
27.5°	509.0	637.0	763.6	895.5	1047.9	1204.9	1337.0	1449.9	1778.3	2386.5	2891.3
25°	542.0	674.1	803.2	949.0	1108.6	1262.5	1393.2	1502.5	2124.5	2692.6	3068.3
22.5°	572.4	708.0	839.5	998.0	1164.3	1312.8	1438.2	1761.6	2420.7	2968.9	3193.3
20°	600.2	737.9	876.9	1042.9	1214.8	1358.5	1479.2	2033.0	2662.2	3075.6	3313.0
17.5°	625.0	764.6	913.1	1084.3	1253.8	1396.0	1546.6	2276.7	2879.5	3171.9	3423.5
15°	646.6	787.9	944.9	1120.6	1286.7	1425.7	1744.4	2458.9	3007.6	3258.5	3522.2
12.5°	665.0	807.8	971.9	1151.5	1314.9	1451.2	1913.9	2610.7	3075.2	3336.5	3625.9
10°	680.2	824.1	994.2	1177.1	1338.1	1472.2	2054.1	2736.5	3131.2	3401.2	3712.3
7.5°	692.0	836.9	1011.7	1197.0	1356.3	1488.7	2164.1	2835.2	3175.3	3452.2	3780.4
5°	700.5	846.0	1024.2	1211.4	1369.4	1500.5	2243.1	2906.2	3207.0	3489.0	3829.7
2.5°	705.6	851.6	1031.7	1220.0	1377.3	1507.6	2290.8	2949.1	3226.2	3511.3	3859.4
0°	707.3	853.4	1034.2	1222.9	1379.9	1510.0	2306.7	2963.4	3232.6	3518.7	3869.4
-2.5°	705.6	851.6	1031.7	1220.0	1377.3	1507.6	2290.8	2949.1	3226.2	3511.3	3859.4
-5°	700.5	846.0	1024.2	1211.4	1369.4	1500.5	2243.1	2906.2	3207.0	3489.0	3829.7
-7.5°	692.0	836.9	1011.7	1197.0	1356.3	1488.7	2164.1	2835.2	3175.3	3452.2	3780.4
-10°	680.2	824.1	994.2	1177.1	1338.1	1472.2	2054.1	2736.5	3131.2	3401.2	3712.3
-12.5°	665.0	807.8	971.9	1151.5	1314.9	1451.2	1913.9	2610.7	3075.2	3336.5	3625.9
-15°	646.6	787.9	944.9	1120.6	1286.7	1425.7	1744.4	2458.9	3007.6	3258.5	3522.2
-17.5°	625.0	764.6	913.1	1084.3	1253.8	1396.0	1546.6	2276.7	2879.5	3171.9	3423.5
-20°	600.2	737.9	876.9	1042.9	1214.8	1358.5	1479.2	2033.0	2662.2	3075.6	3313.0



REPORT NUMBER: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	572.4	708.0	839.5	998.0	1164.3	1312.8	1438.2	1761.6	2420.7	2968.9	3193.3
-25°	542.0	674.1	803.2	949.0	1108.6	1262.5	1393.2	1502.5	2124.5	2692.6	3068.3
-27.5°	509.0	637.0	763.6	895.5	1047.9	1204.9	1337.0	1449.9	1778.3	2386.5	2891.3
-30°	473.3	596.8	720.8	840.8	984.8	1134.3	1273.7	1393.5	1493.4	2007.4	2542.6
-32.5°	435.0	553.9	674.1	790.9	917.9	1059.0	1202.9	1324.0	1429.3	1588.5	2146.8
-35°	397.5	509.0	624.0	737.9	848.3	981.6	1117.3	1247.8	1358.1	1451.0	1679.6
-37.5°	363.3	461.5	571.2	681.4	787.9	901.2	1027.7	1156.8	1273.0	1375.3	1458.3
-40°	327.3	411.5	516.4	621.2	724.6	824.1	937.8	1056.7	1176.7	1281.4	1375.3
-42.5°	289.5	369.9	459.5	558.3	657.4	753.4	846.0	956.2	1066.5	1176.7	1273.0
-45°	249.1	326.9	402.4	494.2	587.1	679.3	767.9	853.4	956.2	1056.7	1156.8
-47.5°	207.1	281.8	353.8	427.9	515.2	601.6	686.7	767.9	846.0	937.8	1027.7
-50°	166.0	234.3	303.6	370.1	441.8	522.3	601.6	679.3	753.4	824.1	901.2
-52.5°	130.5	185.3	250.8	314.4	375.5	441.8	515.2	587.1	657.4	724.6	787.9
-55°	94.0	143.3	196.3	256.3	314.4	370.1	427.9	494.2	558.3	621.2	681.4
-57.5°	68.4	102.5	147.6	196.3	250.8	303.6	353.8	402.4	459.5	516.4	571.2
-60°	49.0	70.5	102.5	143.3	185.3	234.3	281.8	326.9	369.9	411.5	461.5
-62.5°	31.7	49.0	68.4	94.0	130.5	166.0	207.1	249.1	289.5	327.3	363.3
-65°	25.9	31.1	44.7	62.0	78.8	109.3	140.5	170.6	206.1	241.1	274.5
-67.5°	19.9	24.6	29.3	36.2	51.3	66.0	80.2	106.9	132.9	157.7	183.1
-70°	16.3	18.5	22.2	26.2	30.1	36.6	49.2	61.3	73.0	87.6	108.6
-72.5°	13.2	15.1	16.9	18.7	21.9	25.3	28.5	31.6	38.7	48.4	57.6
-75°	10.7	11.8	13.3	14.8	16.3	17.7	19.3	21.9	24.5	26.9	29.2
-77.5°	8.4	9.4	10.3	11.2	12.1	13.3	14.4	15.5	16.6	17.6	18.6
-80°	6.5	7.0	7.7	8.4	9.1	9.8	10.4	11.0	11.6	12.3	13.1
-82.5°	5.1	5.5	5.8	6.2	6.5	6.8	7.1	7.6	8.0	8.4	8.8
-85°	3.7	4.0	4.2	4.4	4.6	4.9	5.1	5.2	5.4	5.6	5.8
-87.5°	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.8	2.9	3.1	3.2
-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: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-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°	3.3	3.4	3.5	3.5	3.6	3.7	3.8	3.8	3.9	3.9	3.9
85°	5.9	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.9
82.5°	9.2	9.6	9.9	10.2	10.5	10.8	11.0	11.2	11.4	11.5	11.7
80°	13.8	14.5	15.1	15.7	16.3	16.7	17.2	17.6	17.9	18.2	18.5
77.5°	20.1	21.8	23.4	24.8	26.2	27.4	28.5	29.5	30.4	31.1	31.7
75°	31.4	34.9	41.4	47.5	53.1	58.3	62.9	67.0	70.5	73.6	76.1
72.5°	66.4	74.6	84.1	98.2	111.2	123.1	133.8	143.3	151.6	158.7	164.5
70°	128.4	147.1	164.6	182.5	201.4	218.7	234.3	248.2	260.3	270.5	279.0
67.5°	211.5	238.2	263.3	286.6	307.7	326.9	344.1	359.4	372.8	384.2	393.6
65°	305.9	335.1	362.4	387.8	411.5	438.7	463.2	484.9	504.0	520.2	533.5
62.5°	397.5	435.0	473.3	509.0	542.0	572.4	600.2	625.0	646.6	665.0	680.2
60°	509.0	553.9	596.8	637.0	674.1	708.0	737.9	764.6	787.9	807.8	824.1
57.5°	624.0	674.1	720.8	763.6	803.2	839.5	876.9	913.1	944.9	971.9	994.2
55°	737.9	790.9	840.8	895.5	949.0	998.0	1042.9	1084.3	1120.6	1151.5	1177.1
52.5°	848.3	917.9	984.8	1047.9	1108.6	1164.3	1214.8	1253.8	1286.7	1314.9	1338.1
50°	981.6	1059.0	1134.3	1204.9	1262.5	1312.8	1358.5	1396.0	1425.7	1451.2	1472.2
47.5°	1117.3	1202.9	1273.7	1337.0	1393.2	1438.2	1479.2	1546.6	1744.4	1913.9	2054.1
45°	1247.8	1324.0	1393.5	1449.9	1502.5	1761.6	2033.0	2276.7	2458.9	2610.7	2736.5
42.5°	1358.1	1429.3	1493.4	1778.3	2124.5	2420.7	2662.2	2879.5	3007.6	3075.2	3131.2
40°	1451.0	1588.5	2007.4	2386.5	2692.6	2968.9	3075.6	3171.9	3258.5	3336.5	3401.2
37.5°	1679.6	2146.8	2542.6	2891.3	3068.3	3193.3	3313.0	3423.5	3522.2	3625.9	3712.3
35°	2193.6	2621.6	2983.5	3135.9	3282.6	3425.2	3565.2	3711.5	3841.6	3982.1	4107.1
32.5°	2621.6	3000.2	3170.1	3338.6	3501.7	3685.2	3858.5	4064.7	4252.0	4477.0	4720.1
30°	2983.5	3170.1	3357.4	3545.4	3758.6	3988.7	4236.3	4562.6	4924.6	5282.7	5697.8
27.5°	3135.9	3338.6	3545.4	3783.3	4056.6	4346.6	4820.9	5308.3	5922.3	6460.8	7755.8
25°	3282.6	3501.7	3758.6	4056.6	4409.9	4952.6	5628.5	6364.5	8086.9	9768.4	12577.4
22.5°	3425.2	3685.2	3988.7	4346.6	4952.6	5736.8	6827.6	9098.1	12515.8	16830.7	21548.0
20°	3565.2	3858.5	4236.3	4820.9	5628.5	6827.6	9441.1	14205.3	19883.2	27513.5	34557.2
17.5°	3711.5	4064.7	4562.6	5308.3	6364.5	9098.1	14205.3	21341.6	30606.3	41174.6	51084.7
15°	3841.6	4252.0	4924.6	5922.3	8086.9	12515.8	19883.2	30606.3	43444.4	56545.9	69186.3
12.5°	3982.1	4477.0	5282.7	6460.8	9768.4	16830.7	27513.5	41174.6	56545.9	72256.3	85858.5
10°	4107.1	4720.1	5697.8	7755.8	12577.4	21548.0	34557.2	51084.7	69186.3	85858.5	102085.2
7.5°	4206.0	4912.8	6028.1	8794.3	15265.9	26357.9	41819.7	60332.5	79493.1	97970.7	118718.6
5°	4277.5	5052.6	6268.3	9552.2	17236.4	29903.8	47215.3	67337.6	87213.0	108752.7	132484.7
2.5°	4320.8	5137.4	6414.3	10013.7	18440.2	32079.3	50544.7	71695.7	92073.6	115988.1	142588.6
0°	4335.3	5165.8	6463.2	10168.7	18845.2	32812.8	51670.9	73176.5	93736.4	118483.6	146224.9
-2.5°	4320.8	5137.4	6414.3	10013.7	18440.2	32079.3	50544.7	71695.7	92073.6	115988.1	142588.6
-5°	4277.5	5052.6	6268.3	9552.2	17236.4	29903.8	47215.3	67337.6	87213.0	108752.7	132484.7
-7.5°	4206.0	4912.8	6028.1	8794.3	15265.9	26357.9	41819.7	60332.5	79493.1	97970.7	118718.6
-10°	4107.1	4720.1	5697.8	7755.8	12577.4	21548.0	34557.2	51084.7	69186.3	85858.5	102085.2
-12.5°	3982.1	4477.0	5282.7	6460.8	9768.4	16830.7	27513.5	41174.6	56545.9	72256.3	85858.5
-15°	3841.6	4252.0	4924.6	5922.3	8086.9	12515.8	19883.2	30606.3	43444.4	56545.9	69186.3
-17.5°	3711.5	4064.7	4562.6	5308.3	6364.5	9098.1	14205.3	21341.6	30606.3	41174.6	51084.7
-20°	3565.2	3858.5	4236.3	4820.9	5628.5	6827.6	9441.1	14205.3	19883.2	27513.5	34557.2



REPORT NUMBER: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3425.2	3685.2	3988.7	4346.6	4952.6	5736.8	6827.6	9098.1	12515.8	16830.7	21548.0
-25°	3282.6	3501.7	3758.6	4056.6	4409.9	4952.6	5628.5	6364.5	8086.9	9768.4	12577.4
-27.5°	3135.9	3338.6	3545.4	3783.3	4056.6	4346.6	4820.9	5308.3	5922.3	6460.8	7755.8
-30°	2983.5	3170.1	3357.4	3545.4	3758.6	3988.7	4236.3	4562.6	4924.6	5282.7	5697.8
-32.5°	2621.6	3000.2	3170.1	3338.6	3501.7	3685.2	3858.5	4064.7	4252.0	4477.0	4720.1
-35°	2193.6	2621.6	2983.5	3135.9	3282.6	3425.2	3565.2	3711.5	3841.6	3982.1	4107.1
-37.5°	1679.6	2146.8	2542.6	2891.3	3068.3	3193.3	3313.0	3423.5	3522.2	3625.9	3712.3
-40°	1451.0	1588.5	2007.4	2386.5	2692.6	2968.9	3075.6	3171.9	3258.5	3336.5	3401.2
-42.5°	1358.1	1429.3	1493.4	1778.3	2124.5	2420.7	2662.2	2879.5	3007.6	3075.2	3131.2
-45°	1247.8	1324.0	1393.5	1449.9	1502.5	1761.6	2033.0	2276.7	2458.9	2610.7	2736.5
-47.5°	1117.3	1202.9	1273.7	1337.0	1393.2	1438.2	1479.2	1546.6	1744.4	1913.9	2054.1
-50°	981.6	1059.0	1134.3	1204.9	1262.5	1312.8	1358.5	1396.0	1425.7	1451.2	1472.2
-52.5°	848.3	917.9	984.8	1047.9	1108.6	1164.3	1214.8	1253.8	1286.7	1314.9	1338.1
-55°	737.9	790.9	840.8	895.5	949.0	998.0	1042.9	1084.3	1120.6	1151.5	1177.1
-57.5°	624.0	674.1	720.8	763.6	803.2	839.5	876.9	913.1	944.9	971.9	994.2
-60°	509.0	553.9	596.8	637.0	674.1	708.0	737.9	764.6	787.9	807.8	824.1
-62.5°	397.5	435.0	473.3	509.0	542.0	572.4	600.2	625.0	646.6	665.0	680.2
-65°	305.9	335.1	362.4	387.8	411.5	438.7	463.2	484.9	504.0	520.2	533.5
-67.5°	211.5	238.2	263.3	286.6	307.7	326.9	344.1	359.4	372.8	384.2	393.6
-70°	128.4	147.1	164.6	182.5	201.4	218.7	234.3	248.2	260.3	270.5	279.0
-72.5°	66.4	74.6	84.1	98.2	111.2	123.1	133.8	143.3	151.6	158.7	164.5
-75°	31.4	34.9	41.4	47.5	53.1	58.3	62.9	67.0	70.5	73.6	76.1
-77.5°	20.1	21.8	23.4	24.8	26.2	27.4	28.5	29.5	30.4	31.1	31.7
-80°	13.8	14.5	15.1	15.7	16.3	16.7	17.2	17.6	17.9	18.2	18.5
-82.5°	9.2	9.6	9.9	10.2	10.5	10.8	11.0	11.2	11.4	11.5	11.7
-85°	5.9	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.9
-87.5°	3.3	3.4	3.5	3.5	3.6	3.7	3.8	3.8	3.9	3.9	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: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8
85°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.9	6.8	6.7
82.5°	11.8	11.8	11.9	11.9	11.9	11.8	11.8	11.7	11.5	11.4	11.2
80°	18.7	18.8	18.9	18.9	18.9	18.8	18.7	18.5	18.2	17.9	17.6
77.5°	32.2	32.5	32.7	32.8	32.7	32.5	32.2	31.7	31.1	30.4	29.5
75°	78.0	79.4	80.2	80.5	80.2	79.4	78.0	76.1	73.6	70.5	67.0
72.5°	169.0	172.2	174.2	174.8	174.2	172.2	169.0	164.5	158.7	151.6	143.3
70°	285.6	290.3	293.2	294.1	293.2	290.3	285.6	279.0	270.5	260.3	248.2
67.5°	400.9	406.1	409.3	410.3	409.3	406.1	400.9	393.6	384.2	372.8	359.4
65°	543.9	551.3	555.8	557.3	555.8	551.3	543.9	533.5	520.2	504.0	484.9
62.5°	692.0	700.5	705.6	707.3	705.6	700.5	692.0	680.2	665.0	646.6	625.0
60°	836.9	846.0	851.6	853.4	851.6	846.0	836.9	824.1	807.8	787.9	764.6
57.5°	1011.7	1024.2	1031.7	1034.2	1031.7	1024.2	1011.7	994.2	971.9	944.9	913.1
55°	1197.0	1211.4	1220.0	1222.9	1220.0	1211.4	1197.0	1177.1	1151.5	1120.6	1084.3
52.5°	1356.3	1369.4	1377.3	1379.9	1377.3	1369.4	1356.3	1338.1	1314.9	1286.7	1253.8
50°	1488.7	1500.5	1507.6	1510.0	1507.6	1500.5	1488.7	1472.2	1451.2	1425.7	1396.0
47.5°	2164.1	2243.1	2290.8	2306.7	2290.8	2243.1	2164.1	2054.1	1913.9	1744.4	1546.6
45°	2835.2	2906.2	2949.1	2963.4	2949.1	2906.2	2835.2	2736.5	2610.7	2458.9	2276.7
42.5°	3175.3	3207.0	3226.2	3232.6	3226.2	3207.0	3175.3	3131.2	3075.2	3007.6	2879.5
40°	3452.2	3489.0	3511.3	3518.7	3511.3	3489.0	3452.2	3401.2	3336.5	3258.5	3171.9
37.5°	3780.4	3829.7	3859.4	3869.4	3859.4	3829.7	3780.4	3712.3	3625.9	3522.2	3423.5
35°	4206.0	4277.5	4320.8	4335.3	4320.8	4277.5	4206.0	4107.1	3982.1	3841.6	3711.5
32.5°	4912.8	5052.6	5137.4	5165.8	5137.4	5052.6	4912.8	4720.1	4477.0	4252.0	4064.7
30°	6028.1	6268.3	6414.3	6463.2	6414.3	6268.3	6028.1	5697.8	5282.7	4924.6	4562.6
27.5°	8794.3	9552.2	10013.7	10168.7	10013.7	9552.2	8794.3	7755.8	6460.8	5922.3	5308.3
25°	15265.9	17236.4	18440.2	18845.2	18440.2	17236.4	15265.9	12577.4	9768.4	8086.9	6364.5
22.5°	26357.9	29903.8	32079.3	32812.8	32079.3	29903.8	26357.9	21548.0	16830.7	12515.8	9098.1
20°	41819.7	47215.3	50544.7	51670.9	50544.7	47215.3	41819.7	34557.2	27513.5	19883.2	14205.3
17.5°	60332.5	67337.6	71695.7	73176.5	71695.7	67337.6	60332.5	51084.7	41174.6	30606.3	21341.6
15°	79493.1	87213.0	92073.6	93736.4	92073.6	87213.0	79493.1	69186.3	56545.9	43444.4	30606.3
12.5°	97970.7	108752.7	115988.1	118483.6	115988.1	108752.7	97970.7	85858.5	72256.3	56545.9	41174.6
10°	118718.6	132484.7	142588.6	146224.9	142588.6	132484.7	118718.6	102085.2	85858.5	69186.3	51084.7
7.5°	139166.5	157750.3	168029.9	171081.9	168029.9	157750.3	139166.5	118718.6	97970.7	79493.1	60332.5
5°	157750.3	174360.7	183868.6	187158.0	183868.6	174360.7	157750.3	132484.7	108752.7	87213.0	67337.6
2.5°	168029.9	183868.6	197066.4	206022.1	197066.4	183868.6	168029.9	142588.6	115988.1	92073.6	71695.7
0°	171081.9	187158.0	206022.1	218588.9	206022.1	187158.0	171081.9	146224.9	118483.6	93736.4	73176.5
-2.5°	168029.9	183868.6	197066.4	206022.1	197066.4	183868.6	168029.9	142588.6	115988.1	92073.6	71695.7
-5°	157750.3	174360.7	183868.6	187158.0	183868.6	174360.7	157750.3	132484.7	108752.7	87213.0	67337.6
-7.5°	139166.5	157750.3	168029.9	171081.9	168029.9	157750.3	139166.5	118718.6	97970.7	79493.1	60332.5
-10°	118718.6	132484.7	142588.6	146224.9	142588.6	132484.7	118718.6	102085.2	85858.5	69186.3	51084.7
-12.5°	97970.7	108752.7	115988.1	118483.6	115988.1	108752.7	97970.7	85858.5	72256.3	56545.9	41174.6
-15°	79493.1	87213.0	92073.6	93736.4	92073.6	87213.0	79493.1	69186.3	56545.9	43444.4	30606.3
-17.5°	60332.5	67337.6	71695.7	73176.5	71695.7	67337.6	60332.5	51084.7	41174.6	30606.3	21341.6
-20°	41819.7	47215.3	50544.7	51670.9	50544.7	47215.3	41819.7	34557.2	27513.5	19883.2	14205.3



REPORT NUMBER: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	26357.9	29903.8	32079.3	32812.8	32079.3	29903.8	26357.9	21548.0	16830.7	12515.8	9098.1
-25°	15265.9	17236.4	18440.2	18845.2	18440.2	17236.4	15265.9	12577.4	9768.4	8086.9	6364.5
-27.5°	8794.3	9552.2	10013.7	10168.7	10013.7	9552.2	8794.3	7755.8	6460.8	5922.3	5308.3
-30°	6028.1	6268.3	6414.3	6463.2	6414.3	6268.3	6028.1	5697.8	5282.7	4924.6	4562.6
-32.5°	4912.8	5052.6	5137.4	5165.8	5137.4	5052.6	4912.8	4720.1	4477.0	4252.0	4064.7
-35°	4206.0	4277.5	4320.8	4335.3	4320.8	4277.5	4206.0	4107.1	3982.1	3841.6	3711.5
-37.5°	3780.4	3829.7	3859.4	3869.4	3859.4	3829.7	3780.4	3712.3	3625.9	3522.2	3423.5
-40°	3452.2	3489.0	3511.3	3518.7	3511.3	3489.0	3452.2	3401.2	3336.5	3258.5	3171.9
-42.5°	3175.3	3207.0	3226.2	3232.6	3226.2	3207.0	3175.3	3131.2	3075.2	3007.6	2879.5
-45°	2835.2	2906.2	2949.1	2963.4	2949.1	2906.2	2835.2	2736.5	2610.7	2458.9	2276.7
-47.5°	2164.1	2243.1	2290.8	2306.7	2290.8	2243.1	2164.1	2054.1	1913.9	1744.4	1546.6
-50°	1488.7	1500.5	1507.6	1510.0	1507.6	1500.5	1488.7	1472.2	1451.2	1425.7	1396.0
-52.5°	1356.3	1369.4	1377.3	1379.9	1377.3	1369.4	1356.3	1338.1	1314.9	1286.7	1253.8
-55°	1197.0	1211.4	1220.0	1222.9	1220.0	1211.4	1197.0	1177.1	1151.5	1120.6	1084.3
-57.5°	1011.7	1024.2	1031.7	1034.2	1031.7	1024.2	1011.7	994.2	971.9	944.9	913.1
-60°	836.9	846.0	851.6	853.4	851.6	846.0	836.9	824.1	807.8	787.9	764.6
-62.5°	692.0	700.5	705.6	707.3	705.6	700.5	692.0	680.2	665.0	646.6	625.0
-65°	543.9	551.3	555.8	557.3	555.8	551.3	543.9	533.5	520.2	504.0	484.9
-67.5°	400.9	406.1	409.3	410.3	409.3	406.1	400.9	393.6	384.2	372.8	359.4
-70°	285.6	290.3	293.2	294.1	293.2	290.3	285.6	279.0	270.5	260.3	248.2
-72.5°	169.0	172.2	174.2	174.8	174.2	172.2	169.0	164.5	158.7	151.6	143.3
-75°	78.0	79.4	80.2	80.5	80.2	79.4	78.0	76.1	73.6	70.5	67.0
-77.5°	32.2	32.5	32.7	32.8	32.7	32.5	32.2	31.7	31.1	30.4	29.5
-80°	18.7	18.8	18.9	18.9	18.9	18.8	18.7	18.5	18.2	17.9	17.6
-82.5°	11.8	11.8	11.9	11.9	11.9	11.8	11.8	11.7	11.5	11.4	11.2
-85°	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.9	6.8	6.7
-87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.8
-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: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-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°	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.1	2.9	2.8
85°	6.6	6.5	6.4	6.3	6.2	6.1	5.9	5.8	5.6	5.4	5.2
82.5°	11.0	10.8	10.5	10.2	9.9	9.6	9.2	8.8	8.4	8.0	7.6
80°	17.2	16.7	16.3	15.7	15.1	14.5	13.8	13.1	12.3	11.6	11.0
77.5°	28.5	27.4	26.2	24.8	23.4	21.8	20.1	18.6	17.6	16.6	15.5
75°	62.9	58.3	53.1	47.5	41.4	34.9	31.4	29.2	26.9	24.5	21.9
72.5°	133.8	123.1	111.2	98.2	84.1	74.6	66.4	57.6	48.4	38.7	31.6
70°	234.3	218.7	201.4	182.5	164.6	147.1	128.4	108.6	87.6	73.0	61.3
67.5°	344.1	326.9	307.7	286.6	263.3	238.2	211.5	183.1	157.7	132.9	106.9
65°	463.2	438.7	411.5	387.8	362.4	335.1	305.9	274.5	241.1	206.1	170.6
62.5°	600.2	572.4	542.0	509.0	473.3	435.0	397.5	363.3	327.3	289.5	249.1
60°	737.9	708.0	674.1	637.0	596.8	553.9	509.0	461.5	411.5	369.9	326.9
57.5°	876.9	839.5	803.2	763.6	720.8	674.1	624.0	571.2	516.4	459.5	402.4
55°	1042.9	998.0	949.0	895.5	840.8	790.9	737.9	681.4	621.2	558.3	494.2
52.5°	1214.8	1164.3	1108.6	1047.9	984.8	917.9	848.3	787.9	724.6	657.4	587.1
50°	1358.5	1312.8	1262.5	1204.9	1134.3	1059.0	981.6	901.2	824.1	753.4	679.3
47.5°	1479.2	1438.2	1393.2	1337.0	1273.7	1202.9	1117.3	1027.7	937.8	846.0	767.9
45°	2033.0	1761.6	1502.5	1449.9	1393.5	1324.0	1247.8	1156.8	1056.7	956.2	853.4
42.5°	2662.2	2420.7	2124.5	1778.3	1493.4	1429.3	1358.1	1273.0	1176.7	1066.5	956.2
40°	3075.6	2968.9	2692.6	2386.5	2007.4	1588.5	1451.0	1375.3	1281.4	1176.7	1056.7
37.5°	3313.0	3193.3	3068.3	2891.3	2542.6	2146.8	1679.6	1458.3	1375.3	1273.0	1156.8
35°	3565.2	3425.2	3282.6	3135.9	2983.5	2621.6	2193.6	1679.6	1451.0	1358.1	1247.8
32.5°	3858.5	3685.2	3501.7	3338.6	3170.1	3000.2	2621.6	2146.8	1588.5	1429.3	1324.0
30°	4236.3	3988.7	3758.6	3545.4	3357.4	3170.1	2983.5	2542.6	2007.4	1493.4	1393.5
27.5°	4820.9	4346.6	4056.6	3783.3	3545.4	3338.6	3135.9	2891.3	2386.5	1778.3	1449.9
25°	5628.5	4952.6	4409.9	4056.6	3758.6	3501.7	3282.6	3068.3	2692.6	2124.5	1502.5
22.5°	6827.6	5736.8	4952.6	4346.6	3988.7	3685.2	3425.2	3193.3	2968.9	2420.7	1761.6
20°	9441.1	6827.6	5628.5	4820.9	4236.3	3858.5	3565.2	3313.0	3075.6	2662.2	2033.0
17.5°	14205.3	9098.1	6364.5	5308.3	4562.6	4064.7	3711.5	3423.5	3171.9	2879.5	2276.7
15°	19883.2	12515.8	8086.9	5922.3	4924.6	4252.0	3841.6	3522.2	3258.5	3007.6	2458.9
12.5°	27513.5	16830.7	9768.4	6460.8	5282.7	4477.0	3982.1	3625.9	3336.5	3075.2	2610.7
10°	34557.2	21548.0	12577.4	7755.8	5697.8	4720.1	4107.1	3712.3	3401.2	3131.2	2736.5
7.5°	41819.7	26357.9	15265.9	8794.3	6028.1	4912.8	4206.0	3780.4	3452.2	3175.3	2835.2
5°	47215.3	29903.8	17236.4	9552.2	6268.3	5052.6	4277.5	3829.7	3489.0	3207.0	2906.2
2.5°	50544.7	32079.3	18440.2	10013.7	6414.3	5137.4	4320.8	3859.4	3511.3	3226.2	2949.1
0°	51670.9	32812.8	18845.2	10168.7	6463.2	5165.8	4335.3	3869.4	3518.7	3232.6	2963.4
-2.5°	50544.7	32079.3	18440.2	10013.7	6414.3	5137.4	4320.8	3859.4	3511.3	3226.2	2949.1
-5°	47215.3	29903.8	17236.4	9552.2	6268.3	5052.6	4277.5	3829.7	3489.0	3207.0	2906.2
-7.5°	41819.7	26357.9	15265.9	8794.3	6028.1	4912.8	4206.0	3780.4	3452.2	3175.3	2835.2
-10°	34557.2	21548.0	12577.4	7755.8	5697.8	4720.1	4107.1	3712.3	3401.2	3131.2	2736.5
-12.5°	27513.5	16830.7	9768.4	6460.8	5282.7	4477.0	3982.1	3625.9	3336.5	3075.2	2610.7
-15°	19883.2	12515.8	8086.9	5922.3	4924.6	4252.0	3841.6	3522.2	3258.5	3007.6	2458.9
-17.5°	14205.3	9098.1	6364.5	5308.3	4562.6	4064.7	3711.5	3423.5	3171.9	2879.5	2276.7
-20°	9441.1	6827.6	5628.5	4820.9	4236.3	3858.5	3565.2	3313.0	3075.6	2662.2	2033.0



REPORT NUMBER: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	6827.6	5736.8	4952.6	4346.6	3988.7	3685.2	3425.2	3193.3	2968.9	2420.7	1761.6
-25°	5628.5	4952.6	4409.9	4056.6	3758.6	3501.7	3282.6	3068.3	2692.6	2124.5	1502.5
-27.5°	4820.9	4346.6	4056.6	3783.3	3545.4	3338.6	3135.9	2891.3	2386.5	1778.3	1449.9
-30°	4236.3	3988.7	3758.6	3545.4	3357.4	3170.1	2983.5	2542.6	2007.4	1493.4	1393.5
-32.5°	3858.5	3685.2	3501.7	3338.6	3170.1	3000.2	2621.6	2146.8	1588.5	1429.3	1324.0
-35°	3565.2	3425.2	3282.6	3135.9	2983.5	2621.6	2193.6	1679.6	1451.0	1358.1	1247.8
-37.5°	3313.0	3193.3	3068.3	2891.3	2542.6	2146.8	1679.6	1458.3	1375.3	1273.0	1156.8
-40°	3075.6	2968.9	2692.6	2386.5	2007.4	1588.5	1451.0	1375.3	1281.4	1176.7	1056.7
-42.5°	2662.2	2420.7	2124.5	1778.3	1493.4	1429.3	1358.1	1273.0	1176.7	1066.5	956.2
-45°	2033.0	1761.6	1502.5	1449.9	1393.5	1324.0	1247.8	1156.8	1056.7	956.2	853.4
-47.5°	1479.2	1438.2	1393.2	1337.0	1273.7	1202.9	1117.3	1027.7	937.8	846.0	767.9
-50°	1358.5	1312.8	1262.5	1204.9	1134.3	1059.0	981.6	901.2	824.1	753.4	679.3
-52.5°	1214.8	1164.3	1108.6	1047.9	984.8	917.9	848.3	787.9	724.6	657.4	587.1
-55°	1042.9	998.0	949.0	895.5	840.8	790.9	737.9	681.4	621.2	558.3	494.2
-57.5°	876.9	839.5	803.2	763.6	720.8	674.1	624.0	571.2	516.4	459.5	402.4
-60°	737.9	708.0	674.1	637.0	596.8	553.9	509.0	461.5	411.5	369.9	326.9
-62.5°	600.2	572.4	542.0	509.0	473.3	435.0	397.5	363.3	327.3	289.5	249.1
-65°	463.2	438.7	411.5	387.8	362.4	335.1	305.9	274.5	241.1	206.1	170.6
-67.5°	344.1	326.9	307.7	286.6	263.3	238.2	211.5	183.1	157.7	132.9	106.9
-70°	234.3	218.7	201.4	182.5	164.6	147.1	128.4	108.6	87.6	73.0	61.3
-72.5°	133.8	123.1	111.2	98.2	84.1	74.6	66.4	57.6	48.4	38.7	31.6
-75°	62.9	58.3	53.1	47.5	41.4	34.9	31.4	29.2	26.9	24.5	21.9
-77.5°	28.5	27.4	26.2	24.8	23.4	21.8	20.1	18.6	17.6	16.6	15.5
-80°	17.2	16.7	16.3	15.7	15.1	14.5	13.8	13.1	12.3	11.6	11.0
-82.5°	11.0	10.8	10.5	10.2	9.9	9.6	9.2	8.8	8.4	8.0	7.6
-85°	6.6	6.5	6.4	6.3	6.2	6.1	5.9	5.8	5.6	5.4	5.2
-87.5°	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.1	2.9	2.8
-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: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-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°	2.7	2.6	2.4	2.3	2.1	2.0	1.8	1.7	1.5	1.4	1.2
85°	5.1	4.9	4.6	4.4	4.2	4.0	3.7	3.4	3.1	2.7	2.4
82.5°	7.1	6.8	6.5	6.2	5.8	5.5	5.1	4.8	4.4	4.1	3.6
80°	10.4	9.8	9.1	8.4	7.7	7.0	6.5	6.1	5.6	5.1	4.6
77.5°	14.4	13.3	12.1	11.2	10.3	9.4	8.4	7.5	6.7	6.1	5.5
75°	19.3	17.7	16.3	14.8	13.3	11.8	10.7	9.5	8.3	7.2	6.4
72.5°	28.5	25.3	21.9	18.7	16.9	15.1	13.2	11.5	10.2	8.8	7.4
70°	49.2	36.6	30.1	26.2	22.2	18.5	16.3	14.2	12.0	10.4	8.8
67.5°	80.2	66.0	51.3	36.2	29.3	24.6	19.9	17.0	14.5	12.0	10.2
65°	140.5	109.3	78.8	62.0	44.7	31.1	25.9	20.5	17.0	14.2	11.5
62.5°	207.1	166.0	130.5	94.0	68.4	49.0	31.7	25.9	19.9	16.3	13.2
60°	281.8	234.3	185.3	143.3	102.5	70.5	49.0	31.1	24.6	18.5	15.1
57.5°	353.8	303.6	250.8	196.3	147.6	102.5	68.4	44.7	29.3	22.2	16.9
55°	427.9	370.1	314.4	256.3	196.3	143.3	94.0	62.0	36.2	26.2	18.7
52.5°	515.2	441.8	375.5	314.4	250.8	185.3	130.5	78.8	51.3	30.1	21.9
50°	601.6	522.3	441.8	370.1	303.6	234.3	166.0	109.3	66.0	36.6	25.3
47.5°	686.7	601.6	515.2	427.9	353.8	281.8	207.1	140.5	80.2	49.2	28.5
45°	767.9	679.3	587.1	494.2	402.4	326.9	249.1	170.6	106.9	61.3	31.6
42.5°	846.0	753.4	657.4	558.3	459.5	369.9	289.5	206.1	132.9	73.0	38.7
40°	937.8	824.1	724.6	621.2	516.4	411.5	327.3	241.1	157.7	87.6	48.4
37.5°	1027.7	901.2	787.9	681.4	571.2	461.5	363.3	274.5	183.1	108.6	57.6
35°	1117.3	981.6	848.3	737.9	624.0	509.0	397.5	305.9	211.5	128.4	66.4
32.5°	1202.9	1059.0	917.9	790.9	674.1	553.9	435.0	335.1	238.2	147.1	74.6
30°	1273.7	1134.3	984.8	840.8	720.8	596.8	473.3	362.4	263.3	164.6	84.1
27.5°	1337.0	1204.9	1047.9	895.5	763.6	637.0	509.0	387.8	286.6	182.5	98.2
25°	1393.2	1262.5	1108.6	949.0	803.2	674.1	542.0	411.5	307.7	201.4	111.2
22.5°	1438.2	1312.8	1164.3	998.0	839.5	708.0	572.4	438.7	326.9	218.7	123.1
20°	1479.2	1358.5	1214.8	1042.9	876.9	737.9	600.2	463.2	344.1	234.3	133.8
17.5°	1546.6	1396.0	1253.8	1084.3	913.1	764.6	625.0	484.9	359.4	248.2	143.3
15°	1744.4	1425.7	1286.7	1120.6	944.9	787.9	646.6	504.0	372.8	260.3	151.6
12.5°	1913.9	1451.2	1314.9	1151.5	971.9	807.8	665.0	520.2	384.2	270.5	158.7
10°	2054.1	1472.2	1338.1	1177.1	994.2	824.1	680.2	533.5	393.6	279.0	164.5
7.5°	2164.1	1488.7	1356.3	1197.0	1011.7	836.9	692.0	543.9	400.9	285.6	169.0
5°	2243.1	1500.5	1369.4	1211.4	1024.2	846.0	700.5	551.3	406.1	290.3	172.2
2.5°	2290.8	1507.6	1377.3	1220.0	1031.7	851.6	705.6	555.8	409.3	293.2	174.2
0°	2306.7	1510.0	1379.9	1222.9	1034.2	853.4	707.3	557.3	410.3	294.1	174.8
-2.5°	2290.8	1507.6	1377.3	1220.0	1031.7	851.6	705.6	555.8	409.3	293.2	174.2
-5°	2243.1	1500.5	1369.4	1211.4	1024.2	846.0	700.5	551.3	406.1	290.3	172.2
-7.5°	2164.1	1488.7	1356.3	1197.0	1011.7	836.9	692.0	543.9	400.9	285.6	169.0
-10°	2054.1	1472.2	1338.1	1177.1	994.2	824.1	680.2	533.5	393.6	279.0	164.5
-12.5°	1913.9	1451.2	1314.9	1151.5	971.9	807.8	665.0	520.2	384.2	270.5	158.7
-15°	1744.4	1425.7	1286.7	1120.6	944.9	787.9	646.6	504.0	372.8	260.3	151.6
-17.5°	1546.6	1396.0	1253.8	1084.3	913.1	764.6	625.0	484.9	359.4	248.2	143.3
-20°	1479.2	1358.5	1214.8	1042.9	876.9	737.9	600.2	463.2	344.1	234.3	133.8



REPORT NUMBER: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1438.2	1312.8	1164.3	998.0	839.5	708.0	572.4	438.7	326.9	218.7	123.1
-25°	1393.2	1262.5	1108.6	949.0	803.2	674.1	542.0	411.5	307.7	201.4	111.2
-27.5°	1337.0	1204.9	1047.9	895.5	763.6	637.0	509.0	387.8	286.6	182.5	98.2
-30°	1273.7	1134.3	984.8	840.8	720.8	596.8	473.3	362.4	263.3	164.6	84.1
-32.5°	1202.9	1059.0	917.9	790.9	674.1	553.9	435.0	335.1	238.2	147.1	74.6
-35°	1117.3	981.6	848.3	737.9	624.0	509.0	397.5	305.9	211.5	128.4	66.4
-37.5°	1027.7	901.2	787.9	681.4	571.2	461.5	363.3	274.5	183.1	108.6	57.6
-40°	937.8	824.1	724.6	621.2	516.4	411.5	327.3	241.1	157.7	87.6	48.4
-42.5°	846.0	753.4	657.4	558.3	459.5	369.9	289.5	206.1	132.9	73.0	38.7
-45°	767.9	679.3	587.1	494.2	402.4	326.9	249.1	170.6	106.9	61.3	31.6
-47.5°	686.7	601.6	515.2	427.9	353.8	281.8	207.1	140.5	80.2	49.2	28.5
-50°	601.6	522.3	441.8	370.1	303.6	234.3	166.0	109.3	66.0	36.6	25.3
-52.5°	515.2	441.8	375.5	314.4	250.8	185.3	130.5	78.8	51.3	30.1	21.9
-55°	427.9	370.1	314.4	256.3	196.3	143.3	94.0	62.0	36.2	26.2	18.7
-57.5°	353.8	303.6	250.8	196.3	147.6	102.5	68.4	44.7	29.3	22.2	16.9
-60°	281.8	234.3	185.3	143.3	102.5	70.5	49.0	31.1	24.6	18.5	15.1
-62.5°	207.1	166.0	130.5	94.0	68.4	49.0	31.7	25.9	19.9	16.3	13.2
-65°	140.5	109.3	78.8	62.0	44.7	31.1	25.9	20.5	17.0	14.2	11.5
-67.5°	80.2	66.0	51.3	36.2	29.3	24.6	19.9	17.0	14.5	12.0	10.2
-70°	49.2	36.6	30.1	26.2	22.2	18.5	16.3	14.2	12.0	10.4	8.8
-72.5°	28.5	25.3	21.9	18.7	16.9	15.1	13.2	11.5	10.2	8.8	7.4
-75°	19.3	17.7	16.3	14.8	13.3	11.8	10.7	9.5	8.3	7.2	6.4
-77.5°	14.4	13.3	12.1	11.2	10.3	9.4	8.4	7.5	6.7	6.1	5.5
-80°	10.4	9.8	9.1	8.4	7.7	7.0	6.5	6.1	5.6	5.1	4.6
-82.5°	7.1	6.8	6.5	6.2	5.8	5.5	5.1	4.8	4.4	4.1	3.6
-85°	5.1	4.9	4.6	4.4	4.2	4.0	3.7	3.4	3.1	2.7	2.4
-87.5°	2.7	2.6	2.4	2.3	2.1	2.0	1.8	1.7	1.5	1.4	1.2
-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: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-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°	1.0	0.9	0.7	0.5	0.3	0.2	0.0
85°	2.1	1.7	1.4	1.0	0.7	0.3	0.0
82.5°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
80°	4.1	3.4	2.8	2.1	1.4	0.7	0.0
77.5°	4.9	4.2	3.4	2.6	1.7	0.9	0.0
75°	5.6	4.9	4.1	3.1	2.1	1.0	0.0
72.5°	6.4	5.5	4.6	3.6	2.4	1.2	0.0
70°	7.2	6.1	5.1	4.1	2.7	1.4	0.0
67.5°	8.3	6.7	5.6	4.4	3.1	1.5	0.0
65°	9.5	7.5	6.1	4.8	3.4	1.7	0.0
62.5°	10.7	8.4	6.5	5.1	3.7	1.8	0.0
60°	11.8	9.4	7.0	5.5	4.0	2.0	0.0
57.5°	13.3	10.3	7.7	5.8	4.2	2.1	0.0
55°	14.8	11.2	8.4	6.2	4.4	2.3	0.0
52.5°	16.3	12.1	9.1	6.5	4.6	2.4	0.0
50°	17.7	13.3	9.8	6.8	4.9	2.6	0.0
47.5°	19.3	14.4	10.4	7.1	5.1	2.7	0.0
45°	21.9	15.5	11.0	7.6	5.2	2.8	0.0
42.5°	24.5	16.6	11.6	8.0	5.4	2.9	0.0
40°	26.9	17.6	12.3	8.4	5.6	3.1	0.0
37.5°	29.2	18.6	13.1	8.8	5.8	3.2	0.0
35°	31.4	20.1	13.8	9.2	5.9	3.3	0.0
32.5°	34.9	21.8	14.5	9.6	6.1	3.4	0.0
30°	41.4	23.4	15.1	9.9	6.2	3.5	0.0
27.5°	47.5	24.8	15.7	10.2	6.3	3.5	0.0
25°	53.1	26.2	16.3	10.5	6.4	3.6	0.0
22.5°	58.3	27.4	16.7	10.8	6.5	3.7	0.0
20°	62.9	28.5	17.2	11.0	6.6	3.8	0.0
17.5°	67.0	29.5	17.6	11.2	6.7	3.8	0.0
15°	70.5	30.4	17.9	11.4	6.8	3.9	0.0
12.5°	73.6	31.1	18.2	11.5	6.9	3.9	0.0
10°	76.1	31.7	18.5	11.7	6.9	3.9	0.0
7.5°	78.0	32.2	18.7	11.8	6.9	4.0	0.0
5°	79.4	32.5	18.8	11.8	7.0	4.0	0.0
2.5°	80.2	32.7	18.9	11.9	7.0	4.0	0.0
0°	80.5	32.8	18.9	11.9	7.0	4.0	0.0
-2.5°	80.2	32.7	18.9	11.9	7.0	4.0	0.0
-5°	79.4	32.5	18.8	11.8	7.0	4.0	0.0
-7.5°	78.0	32.2	18.7	11.8	6.9	4.0	0.0
-10°	76.1	31.7	18.5	11.7	6.9	3.9	0.0
-12.5°	73.6	31.1	18.2	11.5	6.9	3.9	0.0
-15°	70.5	30.4	17.9	11.4	6.8	3.9	0.0
-17.5°	67.0	29.5	17.6	11.2	6.7	3.8	0.0
-20°	62.9	28.5	17.2	11.0	6.6	3.8	0.0



REPORT NUMBER: P731224 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	58.3	27.4	16.7	10.8	6.5	3.7	0.0
-25°	53.1	26.2	16.3	10.5	6.4	3.6	0.0
-27.5°	47.5	24.8	15.7	10.2	6.3	3.5	0.0
-30°	41.4	23.4	15.1	9.9	6.2	3.5	0.0
-32.5°	34.9	21.8	14.5	9.6	6.1	3.4	0.0
-35°	31.4	20.1	13.8	9.2	5.9	3.3	0.0
-37.5°	29.2	18.6	13.1	8.8	5.8	3.2	0.0
-40°	26.9	17.6	12.3	8.4	5.6	3.1	0.0
-42.5°	24.5	16.6	11.6	8.0	5.4	2.9	0.0
-45°	21.9	15.5	11.0	7.6	5.2	2.8	0.0
-47.5°	19.3	14.4	10.4	7.1	5.1	2.7	0.0
-50°	17.7	13.3	9.8	6.8	4.9	2.6	0.0
-52.5°	16.3	12.1	9.1	6.5	4.6	2.4	0.0
-55°	14.8	11.2	8.4	6.2	4.4	2.3	0.0
-57.5°	13.3	10.3	7.7	5.8	4.2	2.1	0.0
-60°	11.8	9.4	7.0	5.5	4.0	2.0	0.0
-62.5°	10.7	8.4	6.5	5.1	3.7	1.8	0.0
-65°	9.5	7.5	6.1	4.8	3.4	1.7	0.0
-67.5°	8.3	6.7	5.6	4.4	3.1	1.5	0.0
-70°	7.2	6.1	5.1	4.1	2.7	1.4	0.0
-72.5°	6.4	5.5	4.6	3.6	2.4	1.2	0.0
-75°	5.6	4.9	4.1	3.1	2.1	1.0	0.0
-77.5°	4.9	4.2	3.4	2.6	1.7	0.9	0.0
-80°	4.1	3.4	2.8	2.1	1.4	0.7	0.0
-82.5°	3.1	2.6	2.1	1.6	1.0	0.5	0.0
-85°	2.1	1.7	1.4	1.0	0.7	0.3	0.0
-87.5°	1.0	0.9	0.7	0.5	0.3	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

