

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: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-1S-HEG**

Issue Date: 11/16/2023

**Test Information**

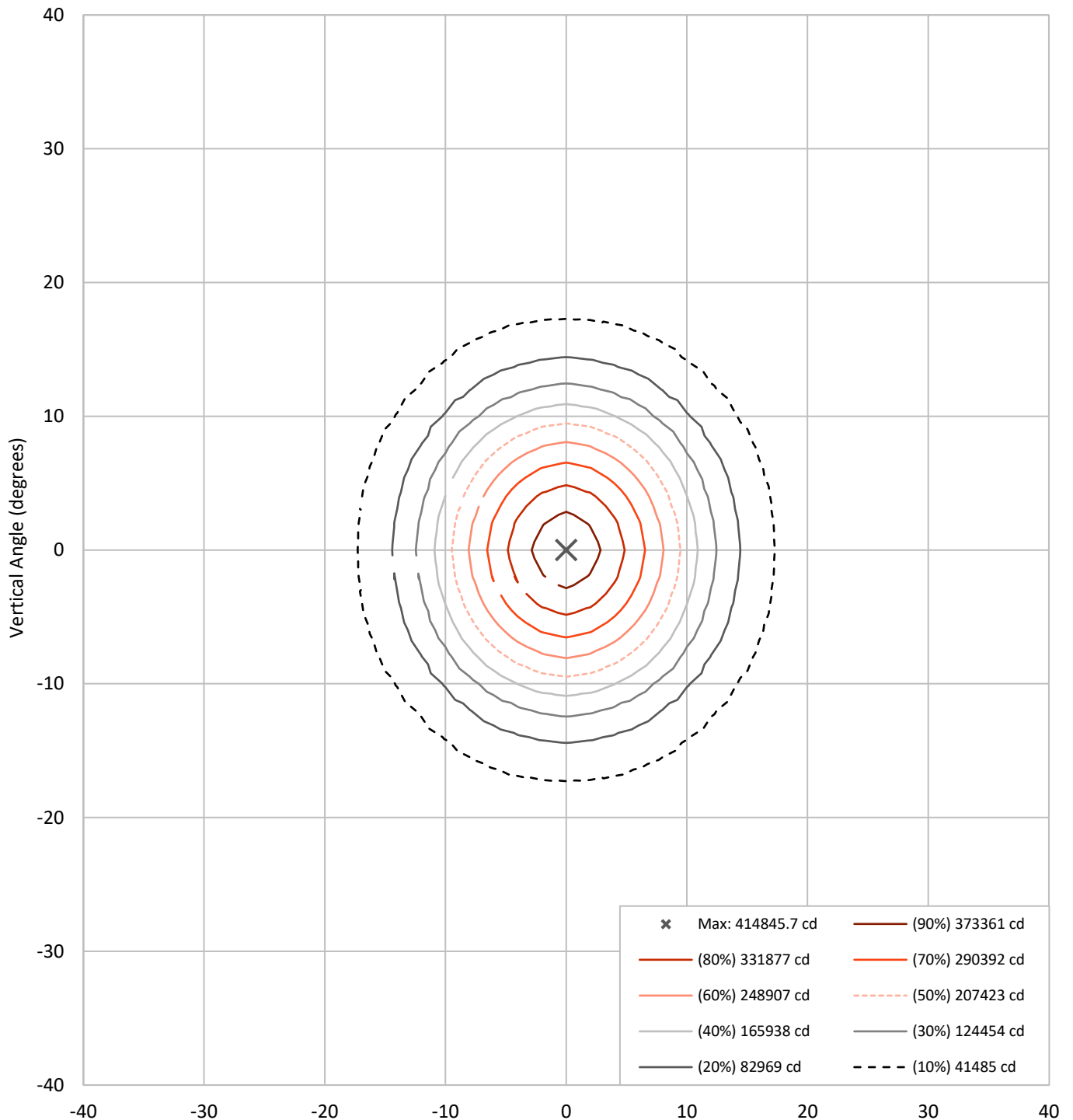
Test Method: LM-79-08  
Report Number: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-61)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-57-70-1S-HEG  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 1S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	56197.4 lumens	Max Intensity:	414845.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	163.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 19°V	Field Angle (10%):	34.3°H x 34.3°V
Beam Lumens:	24221.8 lumens	Field Lumens:	44621.8 lumens
Beam Efficiency:	43.1%	Field Efficiency:	79.4%
Input Watts (W):	343.2		
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: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-HEG

### Iso-Candela Plot





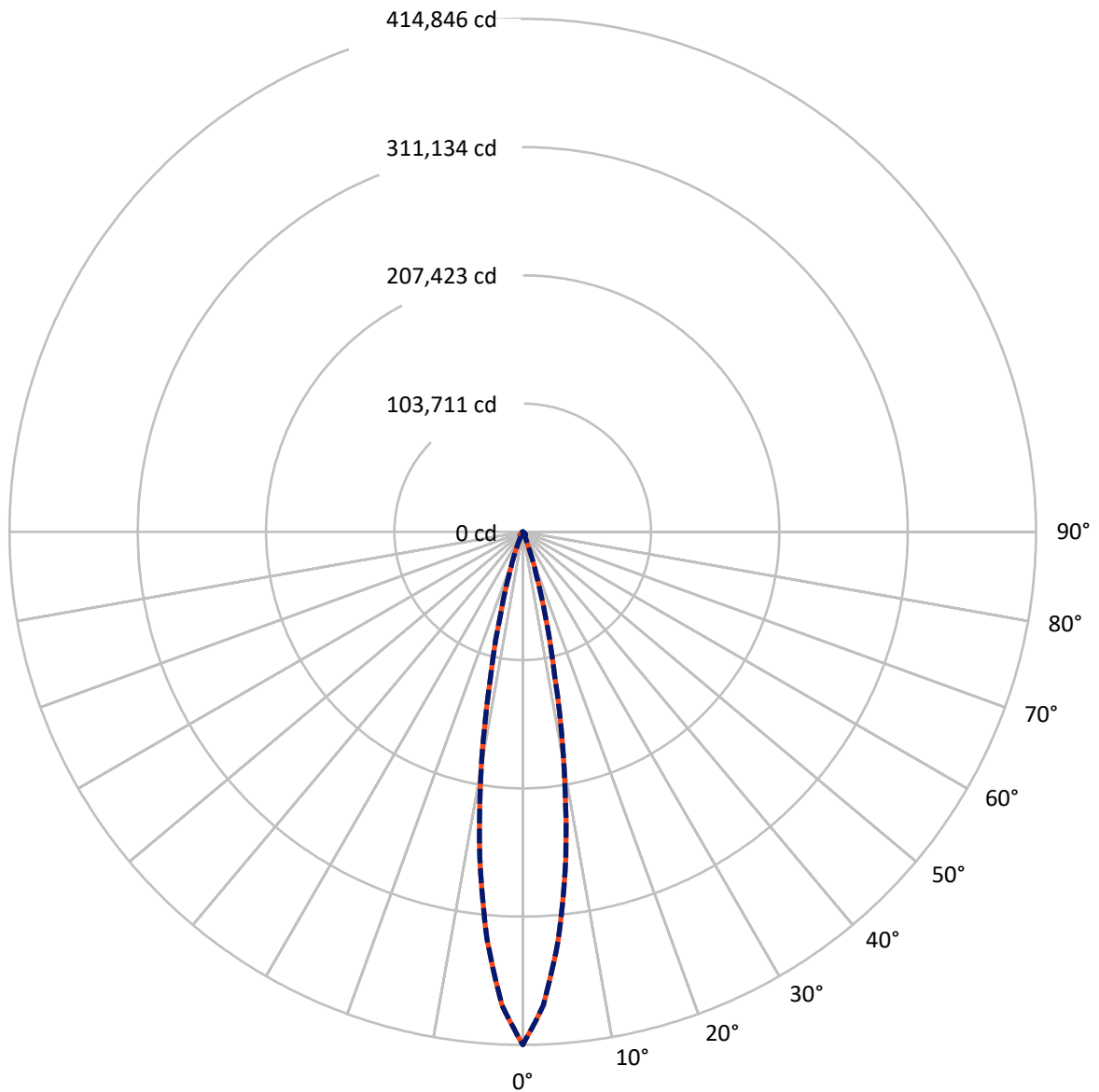
REPORT NUMBER: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-HEG

### Lumen Table

90	0.1		0.5		1.9		4.9		6.4		4.9		1.9		0.5		0.1	
80	0.1		0.5		1.9		4.9		6.4		4.9		1.9		0.5		0.1	
70	0.2	0.3	1.2	3.5	7.1	11.0	14.2	16.0	16.0	14.2	11.0	7.1	3.5	1.2	0.3	0.2		
60		0.9	4.1	10.2	17.5	23.7	27.7	29.9	29.9	27.7	23.7	17.5	10.2	4.1	0.9			
50	0.6	2.2	8.3	17.4	25.3	42.9	67.6	81.2	81.2	67.6	42.9	25.3	17.4	8.3	2.2	0.6		
40		3.8	12.4	21.9	51.9	88.7	98.0	98.2	98.2	98.0	88.7	51.9	21.9	12.4	3.8			
30	1.4	5.3	15.1	33.9	80.3	88.9	97.7	169.3	169.3	97.7	88.9	80.3	33.9	15.1	5.3	1.4		
20		6.4	16.5	50.2	83.1	91.8	536.7	2003.9	2003.9	536.7	91.8	83.1	50.2	16.5	6.4			
10	1.8	7.0	17.3	58.3	80.6	155.8	1955.4	7695.2	7695.2	1955.4	155.8	80.6	58.3	17.3	7.0	1.8		
0		7.0	17.3	58.3	80.6	155.8	1955.4	7695.2	7695.2	1955.4	155.8	80.6	58.3	17.3	7.0			
-10	1.4	6.4	16.5	50.2	83.1	91.8	536.7	2003.9	2003.9	536.7	91.8	83.1	50.2	16.5	6.4	1.4		
-20		5.3	15.1	33.9	80.3	88.9	97.7	169.3	169.3	97.7	88.9	80.3	33.9	15.1	5.3			
-30	0.6	3.8	12.4	21.9	51.9	88.7	98.0	98.2	98.2	98.0	88.7	51.9	21.9	12.4	3.8	0.6		
-40		2.2	8.3	17.4	25.3	42.9	67.6	81.2	81.2	67.6	42.9	25.3	17.4	8.3	2.2			
-50	0.2	0.9	4.1	10.2	17.5	23.7	27.7	29.9	29.9	27.7	23.7	17.5	10.2	4.1	0.9	0.2		
-60		0.3	1.2	3.5	7.1	11.0	14.2	16.0	16.0	14.2	11.0	7.1	3.5	1.2	0.3			
-70	0.1		0.5		1.9		4.9		6.4		4.9		1.9		0.5		0.1	
-80	0.1		0.5		1.9		4.9		6.4		4.9		1.9		0.5		0.1	
-90	0.1		0.5		1.9		4.9		6.4		4.9		1.9		0.5		0.1	

REPORT NUMBER: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-HEG

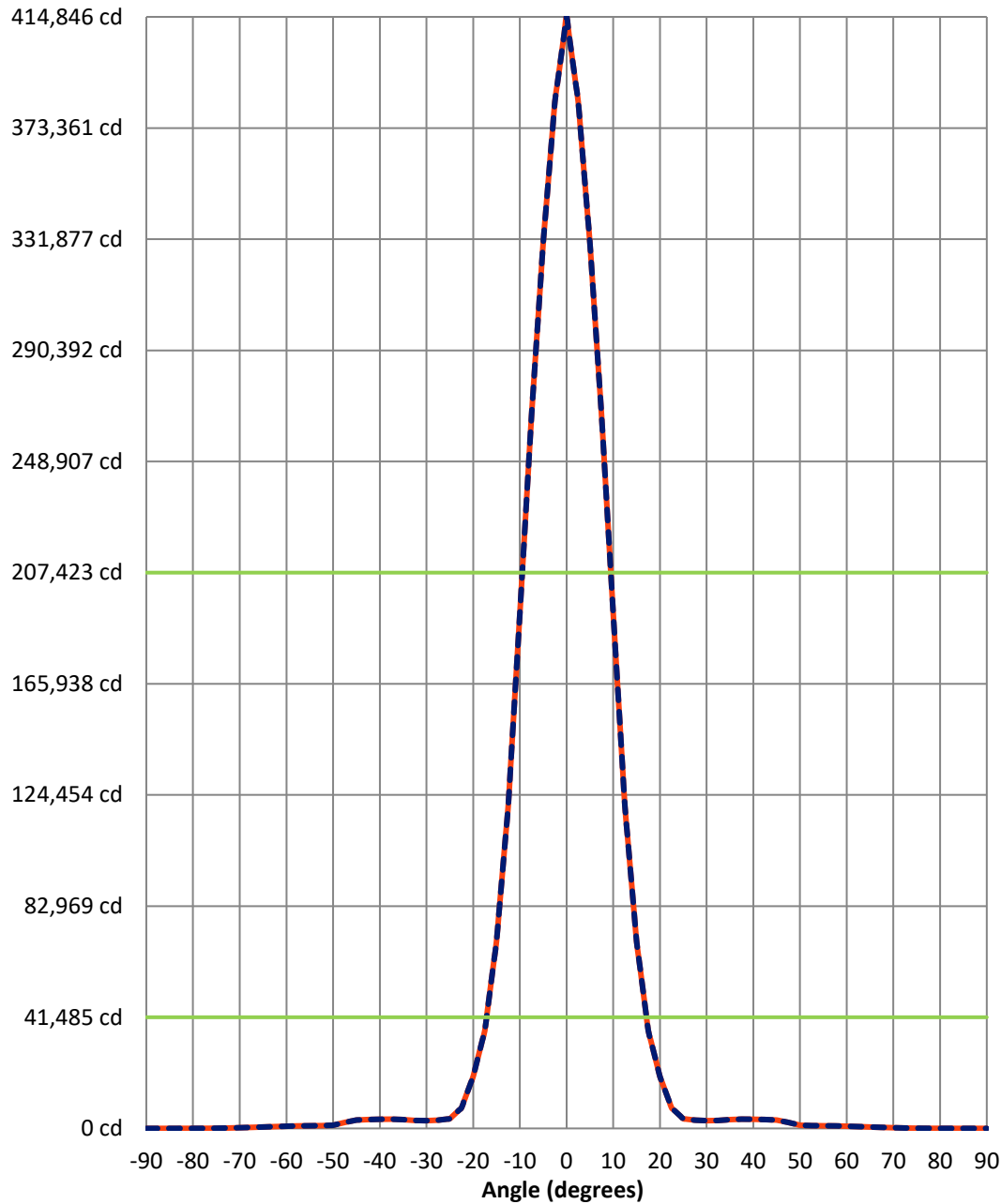
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-HEG

### Luminous Intensity Plot



**Beam:**  
 H Angle: 19°  
 V Angle: 19°  
 Lumens: 24221.8  
 Efficiency: 43.1%

**Field:**  
 H Angle: 34.3°  
 V Angle: 34.3°  
 Lumens: 44621.8  
 Efficiency: 79.4%

**Spill:**  
 Lumens: 11575.6  
 Efficiency: 20.6%

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



REPORT NUMBER: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-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	7.6
75°	0.0	1.0	2.1	3.1	4.1	4.9	5.6	6.4	7.2	8.6	10.0
72.5°	0.0	1.2	2.4	3.6	4.6	5.5	6.4	7.4	9.1	10.8	12.4
70°	0.0	1.4	2.7	4.1	5.1	6.1	7.2	9.1	11.1	13.0	15.2
67.5°	0.0	1.5	3.1	4.4	5.6	6.7	8.6	10.8	13.0	15.5	18.0
65°	0.0	1.7	3.4	4.8	6.1	7.6	10.0	12.4	15.2	18.0	21.3
62.5°	0.0	1.8	3.7	5.1	6.5	8.7	11.4	14.2	17.3	20.7	25.9
60°	0.0	2.0	4.0	5.5	7.0	9.9	12.7	16.1	19.5	24.8	30.4
57.5°	0.0	2.1	4.2	5.8	7.8	11.0	14.3	17.9	22.7	28.8	41.7
55°	0.0	2.3	4.4	6.2	8.7	12.0	15.8	19.7	26.2	34.7	56.1
52.5°	0.0	2.4	4.6	6.5	9.5	13.1	17.3	22.5	29.5	47.2	70.0
50°	0.0	2.6	4.9	6.8	10.3	14.3	18.7	25.3	35.0	59.4	96.4
47.5°	0.0	2.7	5.1	7.1	11.1	15.4	20.2	28.1	45.5	71.2	123.3
45°	0.0	2.8	5.2	7.7	11.8	16.5	22.5	30.7	55.5	94.3	149.3
42.5°	0.0	2.9	5.4	8.2	12.6	17.6	24.7	36.7	65.2	116.8	181.9
40°	0.0	3.1	5.6	8.7	13.3	18.6	26.7	44.8	77.7	138.2	214.3
37.5°	0.0	3.2	5.8	9.2	14.1	19.6	28.7	52.5	95.8	160.7	245.2
35°	0.0	3.3	5.9	9.7	14.8	20.9	30.6	59.8	112.9	186.9	275.6
32.5°	0.0	3.4	6.1	10.1	15.5	22.4	33.5	66.6	129.1	211.7	306.0
30°	0.0	3.5	6.2	10.5	16.1	23.7	39.0	74.6	144.2	234.8	334.5
27.5°	0.0	3.5	6.3	10.9	16.7	25.0	44.1	86.8	160.1	256.4	361.0
25°	0.0	3.6	6.4	11.2	17.3	26.1	48.7	98.1	177.6	277.5	385.7
22.5°	0.0	3.7	6.5	11.5	17.7	27.2	53.0	108.3	193.6	297.5	412.7
20°	0.0	3.8	6.6	11.8	18.2	28.2	56.8	117.6	208.0	315.5	437.0
17.5°	0.0	3.8	6.7	12.1	18.6	29.0	60.2	125.8	220.8	331.5	458.6
15°	0.0	3.9	6.8	12.3	18.9	29.7	63.2	133.0	232.0	345.4	477.5
12.5°	0.0	3.9	6.9	12.5	19.2	30.4	65.7	139.1	241.5	357.3	493.6
10°	0.0	3.9	6.9	12.6	19.5	30.9	67.8	144.1	249.3	367.0	506.8
7.5°	0.0	4.0	6.9	12.7	19.7	31.3	69.4	148.0	255.4	374.7	517.2
5°	0.0	4.0	7.0	12.8	19.8	31.6	70.6	150.8	259.8	380.1	524.6
2.5°	0.0	4.0	7.0	12.9	19.9	31.7	71.3	152.4	262.4	383.4	529.0
0°	0.0	4.0	7.0	12.9	19.9	31.8	71.5	153.0	263.3	384.5	530.5
-2.5°	0.0	4.0	7.0	12.9	19.9	31.7	71.3	152.4	262.4	383.4	529.0
-5°	0.0	4.0	7.0	12.8	19.8	31.6	70.6	150.8	259.8	380.1	524.6
-7.5°	0.0	4.0	6.9	12.7	19.7	31.3	69.4	148.0	255.4	374.7	517.2
-10°	0.0	3.9	6.9	12.6	19.5	30.9	67.8	144.1	249.3	367.0	506.8
-12.5°	0.0	3.9	6.9	12.5	19.2	30.4	65.7	139.1	241.5	357.3	493.6
-15°	0.0	3.9	6.8	12.3	18.9	29.7	63.2	133.0	232.0	345.4	477.5
-17.5°	0.0	3.8	6.7	12.1	18.6	29.0	60.2	125.8	220.8	331.5	458.6
-20°	0.0	3.8	6.6	11.8	18.2	28.2	56.8	117.6	208.0	315.5	437.0



REPORT NUMBER: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-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	11.5	17.7	27.2	53.0	108.3	193.6	297.5	412.7
-25°	0.0	3.6	6.4	11.2	17.3	26.1	48.7	98.1	177.6	277.5	385.7
-27.5°	0.0	3.5	6.3	10.9	16.7	25.0	44.1	86.8	160.1	256.4	361.0
-30°	0.0	3.5	6.2	10.5	16.1	23.7	39.0	74.6	144.2	234.8	334.5
-32.5°	0.0	3.4	6.1	10.1	15.5	22.4	33.5	66.6	129.1	211.7	306.0
-35°	0.0	3.3	5.9	9.7	14.8	20.9	30.6	59.8	112.9	186.9	275.6
-37.5°	0.0	3.2	5.8	9.2	14.1	19.6	28.7	52.5	95.8	160.7	245.2
-40°	0.0	3.1	5.6	8.7	13.3	18.6	26.7	44.8	77.7	138.2	214.3
-42.5°	0.0	2.9	5.4	8.2	12.6	17.6	24.7	36.7	65.2	116.8	181.9
-45°	0.0	2.8	5.2	7.7	11.8	16.5	22.5	30.7	55.5	94.3	149.3
-47.5°	0.0	2.7	5.1	7.1	11.1	15.4	20.2	28.1	45.5	71.2	123.3
-50°	0.0	2.6	4.9	6.8	10.3	14.3	18.7	25.3	35.0	59.4	96.4
-52.5°	0.0	2.4	4.6	6.5	9.5	13.1	17.3	22.5	29.5	47.2	70.0
-55°	0.0	2.3	4.4	6.2	8.7	12.0	15.8	19.7	26.2	34.7	56.1
-57.5°	0.0	2.1	4.2	5.8	7.8	11.0	14.3	17.9	22.7	28.8	41.7
-60°	0.0	2.0	4.0	5.5	7.0	9.9	12.7	16.1	19.5	24.8	30.4
-62.5°	0.0	1.8	3.7	5.1	6.5	8.7	11.4	14.2	17.3	20.7	25.9
-65°	0.0	1.7	3.4	4.8	6.1	7.6	10.0	12.4	15.2	18.0	21.3
-67.5°	0.0	1.5	3.1	4.4	5.6	6.7	8.6	10.8	13.0	15.5	18.0
-70°	0.0	1.4	2.7	4.1	5.1	6.1	7.2	9.1	11.1	13.0	15.2
-72.5°	0.0	1.2	2.4	3.6	4.6	5.5	6.4	7.4	9.1	10.8	12.4
-75°	0.0	1.0	2.1	3.1	4.1	4.9	5.6	6.4	7.2	8.6	10.0
-77.5°	0.0	0.9	1.7	2.6	3.4	4.2	4.9	5.5	6.1	6.7	7.6
-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: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-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	7.7	8.2	8.7	9.2
80°	6.5	7.0	7.8	8.7	9.5	10.3	11.1	11.8	12.6	13.3	14.1
77.5°	8.7	9.9	11.0	12.0	13.1	14.3	15.4	16.5	17.6	18.6	19.6
75°	11.4	12.7	14.3	15.8	17.3	18.7	20.2	22.5	24.7	26.7	28.7
72.5°	14.2	16.1	17.9	19.7	22.5	25.3	28.1	30.7	36.7	44.8	52.5
70°	17.3	19.5	22.7	26.2	29.5	35.0	45.5	55.5	65.2	77.7	95.8
67.5°	20.7	24.8	28.8	34.7	47.2	59.4	71.2	94.3	116.8	138.2	160.7
65°	25.9	30.4	41.7	56.1	70.0	96.4	123.3	149.3	181.9	214.3	245.2
62.5°	30.9	45.3	61.4	83.2	114.7	145.4	182.9	221.7	259.0	298.0	335.5
60°	45.3	63.2	90.5	125.8	162.7	208.0	251.9	297.5	342.4	385.7	435.3
57.5°	61.4	90.5	129.5	172.8	223.2	273.2	325.6	376.2	433.4	489.9	544.5
55°	83.2	125.8	172.8	228.3	284.5	342.6	402.0	467.9	531.5	594.8	655.4
52.5°	114.7	162.7	223.2	284.5	348.2	415.8	488.7	560.5	631.3	698.1	758.8
50°	145.4	208.0	273.2	342.6	415.8	495.7	575.1	653.4	725.7	793.5	853.9
47.5°	182.9	251.9	325.6	402.0	488.7	575.1	660.8	739.6	814.6	878.6	939.4
45°	221.7	297.5	376.2	467.9	560.5	653.4	739.6	821.6	891.1	948.5	969.6
42.5°	259.0	342.4	433.4	531.5	631.3	725.7	814.6	891.1	950.6	973.8	1000.6
40°	298.0	385.7	489.9	594.8	698.1	793.5	878.6	948.5	973.8	1003.5	1035.5
37.5°	335.5	435.3	544.5	655.4	758.8	853.9	939.4	969.6	1000.6	1035.5	1131.7
35°	371.2	482.5	597.7	710.9	816.7	908.2	961.3	992.0	1029.7	1122.9	1416.6
32.5°	409.0	527.1	648.1	761.7	865.2	949.0	979.3	1018.0	1096.7	1297.1	2029.4
30°	447.0	570.3	694.4	809.5	910.4	964.9	1000.8	1053.5	1174.0	1846.6	2557.2
27.5°	482.5	610.7	735.5	850.0	946.7	979.7	1022.4	1121.5	1546.0	2346.8	3027.2
25°	515.3	648.1	773.5	886.2	959.4	997.0	1053.1	1185.0	2000.2	2759.4	3196.3
22.5°	545.7	682.2	808.3	919.3	971.2	1014.2	1107.5	1524.1	2392.9	3128.1	3282.1
20°	573.7	710.9	837.5	945.6	981.8	1029.8	1157.0	1880.2	2718.3	3201.3	3340.4
17.5°	598.6	736.4	862.0	954.3	994.0	1056.5	1242.1	2199.9	3011.2	3267.4	3383.3
15°	620.4	758.8	883.4	962.0	1005.3	1092.4	1501.6	2444.4	3154.6	3319.2	3420.6
12.5°	638.9	777.8	901.7	968.5	1014.9	1123.1	1724.0	2649.0	3201.0	3349.5	3430.9
10°	654.2	793.5	916.8	973.9	1022.8	1148.5	1907.9	2818.4	3239.5	3374.6	3439.5
7.5°	666.1	805.8	928.6	978.1	1029.1	1168.3	2052.1	2951.5	3269.8	3394.5	3446.3
5°	674.6	814.6	937.0	981.1	1033.5	1182.6	2155.8	3047.3	3291.6	3408.8	3451.2
2.5°	679.8	819.8	942.1	982.9	1036.2	1191.2	2218.3	3105.0	3304.7	3417.4	3454.1
0°	681.5	821.6	943.8	983.5	1037.1	1194.1	2239.2	3124.3	3309.1	3420.3	3455.1
-2.5°	679.8	819.8	942.1	982.9	1036.2	1191.2	2218.3	3105.0	3304.7	3417.4	3454.1
-5°	674.6	814.6	937.0	981.1	1033.5	1182.6	2155.8	3047.3	3291.6	3408.8	3451.2
-7.5°	666.1	805.8	928.6	978.1	1029.1	1168.3	2052.1	2951.5	3269.8	3394.5	3446.3
-10°	654.2	793.5	916.8	973.9	1022.8	1148.5	1907.9	2818.4	3239.5	3374.6	3439.5
-12.5°	638.9	777.8	901.7	968.5	1014.9	1123.1	1724.0	2649.0	3201.0	3349.5	3430.9
-15°	620.4	758.8	883.4	962.0	1005.3	1092.4	1501.6	2444.4	3154.6	3319.2	3420.6
-17.5°	598.6	736.4	862.0	954.3	994.0	1056.5	1242.1	2199.9	3011.2	3267.4	3383.3
-20°	573.7	710.9	837.5	945.6	981.8	1029.8	1157.0	1880.2	2718.3	3201.3	3340.4



REPORT NUMBER: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	545.7	682.2	808.3	919.3	971.2	1014.2	1107.5	1524.1	2392.9	3128.1	3282.1
-25°	515.3	648.1	773.5	886.2	959.4	997.0	1053.1	1185.0	2000.2	2759.4	3196.3
-27.5°	482.5	610.7	735.5	850.0	946.7	979.7	1022.4	1121.5	1546.0	2346.8	3027.2
-30°	447.0	570.3	694.4	809.5	910.4	964.9	1000.8	1053.5	1174.0	1846.6	2557.2
-32.5°	409.0	527.1	648.1	761.7	865.2	949.0	979.3	1018.0	1096.7	1297.1	2029.4
-35°	371.2	482.5	597.7	710.9	816.7	908.2	961.3	992.0	1029.7	1122.9	1416.6
-37.5°	335.5	435.3	544.5	655.4	758.8	853.9	939.4	969.6	1000.6	1035.5	1131.7
-40°	298.0	385.7	489.9	594.8	698.1	793.5	878.6	948.5	973.8	1003.5	1035.5
-42.5°	259.0	342.4	433.4	531.5	631.3	725.7	814.6	891.1	950.6	973.8	1000.6
-45°	221.7	297.5	376.2	467.9	560.5	653.4	739.6	821.6	891.1	948.5	969.6
-47.5°	182.9	251.9	325.6	402.0	488.7	575.1	660.8	739.6	814.6	878.6	939.4
-50°	145.4	208.0	273.2	342.6	415.8	495.7	575.1	653.4	725.7	793.5	853.9
-52.5°	114.7	162.7	223.2	284.5	348.2	415.8	488.7	560.5	631.3	698.1	758.8
-55°	83.2	125.8	172.8	228.3	284.5	342.6	402.0	467.9	531.5	594.8	655.4
-57.5°	61.4	90.5	129.5	172.8	223.2	273.2	325.6	376.2	433.4	489.9	544.5
-60°	45.3	63.2	90.5	125.8	162.7	208.0	251.9	297.5	342.4	385.7	435.3
-62.5°	30.9	45.3	61.4	83.2	114.7	145.4	182.9	221.7	259.0	298.0	335.5
-65°	25.9	30.4	41.7	56.1	70.0	96.4	123.3	149.3	181.9	214.3	245.2
-67.5°	20.7	24.8	28.8	34.7	47.2	59.4	71.2	94.3	116.8	138.2	160.7
-70°	17.3	19.5	22.7	26.2	29.5	35.0	45.5	55.5	65.2	77.7	95.8
-72.5°	14.2	16.1	17.9	19.7	22.5	25.3	28.1	30.7	36.7	44.8	52.5
-75°	11.4	12.7	14.3	15.8	17.3	18.7	20.2	22.5	24.7	26.7	28.7
-77.5°	8.7	9.9	11.0	12.0	13.1	14.3	15.4	16.5	17.6	18.6	19.6
-80°	6.5	7.0	7.8	8.7	9.5	10.3	11.1	11.8	12.6	13.3	14.1
-82.5°	5.1	5.5	5.8	6.2	6.5	6.8	7.1	7.7	8.2	8.7	9.2
-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: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-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°	9.7	10.1	10.5	10.9	11.2	11.5	11.8	12.1	12.3	12.5	12.6
80°	14.8	15.5	16.1	16.7	17.3	17.7	18.2	18.6	18.9	19.2	19.5
77.5°	20.9	22.4	23.7	25.0	26.1	27.2	28.2	29.0	29.7	30.4	30.9
75°	30.6	33.5	39.0	44.1	48.7	53.0	56.8	60.2	63.2	65.7	67.8
72.5°	59.8	66.6	74.6	86.8	98.1	108.3	117.6	125.8	133.0	139.1	144.1
70°	112.9	129.1	144.2	160.1	177.6	193.6	208.0	220.8	232.0	241.5	249.3
67.5°	186.9	211.7	234.8	256.4	277.5	297.5	315.5	331.5	345.4	357.3	367.0
65°	275.6	306.0	334.5	361.0	385.7	412.7	437.0	458.6	477.5	493.6	506.8
62.5°	371.2	409.0	447.0	482.5	515.3	545.7	573.7	598.6	620.4	638.9	654.2
60°	482.5	527.1	570.3	610.7	648.1	682.2	710.9	736.4	758.8	777.8	793.5
57.5°	597.7	648.1	694.4	735.5	773.5	808.3	837.5	862.0	883.4	901.7	916.8
55°	710.9	761.7	809.5	850.0	886.2	919.3	945.6	954.3	962.0	968.5	973.9
52.5°	816.7	865.2	910.4	946.7	959.4	971.2	981.8	994.0	1005.3	1014.9	1022.8
50°	908.2	949.0	964.9	979.7	997.0	1014.2	1029.8	1056.5	1092.4	1123.1	1148.5
47.5°	961.3	979.3	1000.8	1022.4	1053.1	1107.5	1157.0	1242.1	1501.6	1724.0	1907.9
45°	992.0	1018.0	1053.5	1121.5	1185.0	1524.1	1880.2	2199.9	2444.4	2649.0	2818.4
42.5°	1029.7	1096.7	1174.0	1546.0	2000.2	2392.9	2718.3	3011.2	3154.6	3201.0	3239.5
40°	1122.9	1297.1	1846.6	2346.8	2759.4	3128.1	3201.3	3267.4	3319.2	3349.5	3374.6
37.5°	1416.6	2029.4	2557.2	3027.2	3196.3	3282.1	3340.4	3383.3	3420.6	3430.9	3439.5
35°	2090.8	2663.6	3138.1	3242.7	3328.5	3383.9	3424.9	3439.4	3452.3	3415.4	3371.5
32.5°	2663.6	3149.5	3266.2	3350.3	3413.7	3436.8	3454.0	3386.4	3320.5	3237.3	3144.8
30°	3138.1	3266.2	3357.6	3422.9	3444.1	3413.1	3326.0	3204.7	3067.0	2968.0	2942.3
27.5°	3242.7	3350.3	3422.9	3446.6	3389.2	3286.9	3106.5	2966.5	2928.4	2894.9	2963.4
25°	3328.5	3413.7	3444.1	3389.2	3262.8	3056.4	2946.6	2900.9	2981.0	3070.3	3237.1
22.5°	3383.9	3436.8	3413.1	3286.9	3056.4	2939.9	2914.1	3034.7	3233.4	3494.3	4400.2
20°	3424.9	3454.0	3326.0	3106.5	2946.6	2914.1	3052.9	3335.6	3917.2	6130.8	8750.3
17.5°	3439.4	3386.4	3204.7	2966.5	2900.9	3034.7	3335.6	4340.3	7028.1	12855.0	19002.2
15°	3452.3	3320.5	3067.0	2928.4	2981.0	3233.4	3917.2	7028.1	14262.9	23263.5	33369.6
12.5°	3415.4	3237.3	2968.0	2894.9	3070.3	3494.3	6130.8	12855.0	23263.5	35824.2	57100.1
10°	3371.5	3144.8	2942.3	2963.4	3237.1	4400.2	8750.3	19002.2	33369.6	57100.1	85985.9
7.5°	3336.7	3071.5	2921.8	3018.5	3399.7	5795.6	13255.1	26290.9	46790.4	78038.4	120737.4
5°	3311.5	3018.3	2906.9	3058.8	3518.8	6824.3	16602.0	31891.6	59293.8	99173.1	156127.4
2.5°	3296.3	2986.1	2897.8	3083.3	3591.6	7455.4	18667.2	35376.0	67166.3	114411.1	182603.7
0°	3291.2	2975.3	2894.8	3091.5	3616.1	7668.2	19365.8	36559.9	69859.4	120193.0	192061.1
-2.5°	3296.3	2986.1	2897.8	3083.3	3591.6	7455.4	18667.2	35376.0	67166.3	114411.1	182603.7
-5°	3311.5	3018.3	2906.9	3058.8	3518.8	6824.3	16602.0	31891.6	59293.8	99173.1	156127.4
-7.5°	3336.7	3071.5	2921.8	3018.5	3399.7	5795.6	13255.1	26290.9	46790.4	78038.4	120737.4
-10°	3371.5	3144.8	2942.3	2963.4	3237.1	4400.2	8750.3	19002.2	33369.6	57100.1	85985.9
-12.5°	3415.4	3237.3	2968.0	2894.9	3070.3	3494.3	6130.8	12855.0	23263.5	35824.2	57100.1
-15°	3452.3	3320.5	3067.0	2928.4	2981.0	3233.4	3917.2	7028.1	14262.9	23263.5	33369.6
-17.5°	3439.4	3386.4	3204.7	2966.5	2900.9	3034.7	3335.6	4340.3	7028.1	12855.0	19002.2
-20°	3424.9	3454.0	3326.0	3106.5	2946.6	2914.1	3052.9	3335.6	3917.2	6130.8	8750.3



REPORT NUMBER: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3383.9	3436.8	3413.1	3286.9	3056.4	2939.9	2914.1	3034.7	3233.4	3494.3	4400.2
-25°	3328.5	3413.7	3444.1	3389.2	3262.8	3056.4	2946.6	2900.9	2981.0	3070.3	3237.1
-27.5°	3242.7	3350.3	3422.9	3446.6	3389.2	3286.9	3106.5	2966.5	2928.4	2894.9	2963.4
-30°	3138.1	3266.2	3357.6	3422.9	3444.1	3413.1	3326.0	3204.7	3067.0	2968.0	2942.3
-32.5°	2663.6	3149.5	3266.2	3350.3	3413.7	3436.8	3454.0	3386.4	3320.5	3237.3	3144.8
-35°	2090.8	2663.6	3138.1	3242.7	3328.5	3383.9	3424.9	3439.4	3452.3	3415.4	3371.5
-37.5°	1416.6	2029.4	2557.2	3027.2	3196.3	3282.1	3340.4	3383.3	3420.6	3430.9	3439.5
-40°	1122.9	1297.1	1846.6	2346.8	2759.4	3128.1	3201.3	3267.4	3319.2	3349.5	3374.6
-42.5°	1029.7	1096.7	1174.0	1546.0	2000.2	2392.9	2718.3	3011.2	3154.6	3201.0	3239.5
-45°	992.0	1018.0	1053.5	1121.5	1185.0	1524.1	1880.2	2199.9	2444.4	2649.0	2818.4
-47.5°	961.3	979.3	1000.8	1022.4	1053.1	1107.5	1157.0	1242.1	1501.6	1724.0	1907.9
-50°	908.2	949.0	964.9	979.7	997.0	1014.2	1029.8	1056.5	1092.4	1123.1	1148.5
-52.5°	816.7	865.2	910.4	946.7	959.4	971.2	981.8	994.0	1005.3	1014.9	1022.8
-55°	710.9	761.7	809.5	850.0	886.2	919.3	945.6	954.3	962.0	968.5	973.9
-57.5°	597.7	648.1	694.4	735.5	773.5	808.3	837.5	862.0	883.4	901.7	916.8
-60°	482.5	527.1	570.3	610.7	648.1	682.2	710.9	736.4	758.8	777.8	793.5
-62.5°	371.2	409.0	447.0	482.5	515.3	545.7	573.7	598.6	620.4	638.9	654.2
-65°	275.6	306.0	334.5	361.0	385.7	412.7	437.0	458.6	477.5	493.6	506.8
-67.5°	186.9	211.7	234.8	256.4	277.5	297.5	315.5	331.5	345.4	357.3	367.0
-70°	112.9	129.1	144.2	160.1	177.6	193.6	208.0	220.8	232.0	241.5	249.3
-72.5°	59.8	66.6	74.6	86.8	98.1	108.3	117.6	125.8	133.0	139.1	144.1
-75°	30.6	33.5	39.0	44.1	48.7	53.0	56.8	60.2	63.2	65.7	67.8
-77.5°	20.9	22.4	23.7	25.0	26.1	27.2	28.2	29.0	29.7	30.4	30.9
-80°	14.8	15.5	16.1	16.7	17.3	17.7	18.2	18.6	18.9	19.2	19.5
-82.5°	9.7	10.1	10.5	10.9	11.2	11.5	11.8	12.1	12.3	12.5	12.6
-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: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-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°	12.7	12.8	12.9	12.9	12.9	12.8	12.7	12.6	12.5	12.3	12.1
80°	19.7	19.8	19.9	19.9	19.9	19.8	19.7	19.5	19.2	18.9	18.6
77.5°	31.3	31.6	31.7	31.8	31.7	31.6	31.3	30.9	30.4	29.7	29.0
75°	69.4	70.6	71.3	71.5	71.3	70.6	69.4	67.8	65.7	63.2	60.2
72.5°	148.0	150.8	152.4	153.0	152.4	150.8	148.0	144.1	139.1	133.0	125.8
70°	255.4	259.8	262.4	263.3	262.4	259.8	255.4	249.3	241.5	232.0	220.8
67.5°	374.7	380.1	383.4	384.5	383.4	380.1	374.7	367.0	357.3	345.4	331.5
65°	517.2	524.6	529.0	530.5	529.0	524.6	517.2	506.8	493.6	477.5	458.6
62.5°	666.1	674.6	679.8	681.5	679.8	674.6	666.1	654.2	638.9	620.4	598.6
60°	805.8	814.6	819.8	821.6	819.8	814.6	805.8	793.5	777.8	758.8	736.4
57.5°	928.6	937.0	942.1	943.8	942.1	937.0	928.6	916.8	901.7	883.4	862.0
55°	978.1	981.1	982.9	983.5	982.9	981.1	978.1	973.9	968.5	962.0	954.3
52.5°	1029.1	1033.5	1036.2	1037.1	1036.2	1033.5	1029.1	1022.8	1014.9	1005.3	994.0
50°	1168.3	1182.6	1191.2	1194.1	1191.2	1182.6	1168.3	1148.5	1123.1	1092.4	1056.5
47.5°	2052.1	2155.8	2218.3	2239.2	2218.3	2155.8	2052.1	1907.9	1724.0	1501.6	1242.1
45°	2951.5	3047.3	3105.0	3124.3	3105.0	3047.3	2951.5	2818.4	2649.0	2444.4	2199.9
42.5°	3269.8	3291.6	3304.7	3309.1	3304.7	3291.6	3269.8	3239.5	3201.0	3154.6	3011.2
40°	3394.5	3408.8	3417.4	3420.3	3417.4	3408.8	3394.5	3374.6	3349.5	3319.2	3267.4
37.5°	3446.3	3451.2	3454.1	3455.1	3454.1	3451.2	3446.3	3439.5	3430.9	3420.6	3383.3
35°	3336.7	3311.5	3296.3	3291.2	3296.3	3311.5	3336.7	3371.5	3415.4	3452.3	3439.4
32.5°	3071.5	3018.3	2986.1	2975.3	2986.1	3018.3	3071.5	3144.8	3237.3	3320.5	3386.4
30°	2921.8	2906.9	2897.8	2894.8	2897.8	2906.9	2921.8	2942.3	2968.0	3067.0	3204.7
27.5°	3018.5	3058.8	3083.3	3091.5	3083.3	3058.8	3018.5	2963.4	2894.9	2928.4	2966.5
25°	3399.7	3518.8	3591.6	3616.1	3591.6	3518.8	3399.7	3237.1	3070.3	2981.0	2900.9
22.5°	5795.6	6824.3	7455.4	7668.2	7455.4	6824.3	5795.6	4400.2	3494.3	3233.4	3034.7
20°	13255.1	16602.0	18667.2	19365.8	18667.2	16602.0	13255.1	8750.3	6130.8	3917.2	3335.6
17.5°	26290.9	31891.6	35376.0	36559.9	35376.0	31891.6	26290.9	19002.2	12855.0	7028.1	4340.3
15°	46790.4	59293.8	67166.3	69859.4	67166.3	59293.8	46790.4	33369.6	23263.5	14262.9	7028.1
12.5°	78038.4	99173.1	114411.1	120193.0	114411.1	99173.1	78038.4	57100.1	35824.2	23263.5	12855.0
10°	120737.4	156127.4	182603.7	192061.1	182603.7	156127.4	120737.4	85985.9	57100.1	33369.6	19002.2
7.5°	173703.4	221268.9	254691.2	266070.5	254691.2	221268.9	173703.4	120737.4	78038.4	46790.4	26290.9
5°	221268.9	278295.8	316438.8	330548.9	316438.8	278295.8	221268.9	156127.4	99173.1	59293.8	31891.6
2.5°	254691.2	316438.8	361698.5	383159.1	361698.5	316438.8	254691.2	182603.7	114411.1	67166.3	35376.0
0°	266070.5	330548.9	383159.1	414845.7	383159.1	330548.9	266070.5	192061.1	120193.0	69859.4	36559.9
-2.5°	254691.2	316438.8	361698.5	383159.1	361698.5	316438.8	254691.2	182603.7	114411.1	67166.3	35376.0
-5°	221268.9	278295.8	316438.8	330548.9	316438.8	278295.8	221268.9	156127.4	99173.1	59293.8	31891.6
-7.5°	173703.4	221268.9	254691.2	266070.5	254691.2	221268.9	173703.4	120737.4	78038.4	46790.4	26290.9
-10°	120737.4	156127.4	182603.7	192061.1	182603.7	156127.4	120737.4	85985.9	57100.1	33369.6	19002.2
-12.5°	78038.4	99173.1	114411.1	120193.0	114411.1	99173.1	78038.4	57100.1	35824.2	23263.5	12855.0
-15°	46790.4	59293.8	67166.3	69859.4	67166.3	59293.8	46790.4	33369.6	23263.5	14262.9	7028.1
-17.5°	26290.9	31891.6	35376.0	36559.9	35376.0	31891.6	26290.9	19002.2	12855.0	7028.1	4340.3
-20°	13255.1	16602.0	18667.2	19365.8	18667.2	16602.0	13255.1	8750.3	6130.8	3917.2	3335.6



REPORT NUMBER: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5795.6	6824.3	7455.4	7668.2	7455.4	6824.3	5795.6	4400.2	3494.3	3233.4	3034.7
-25°	3399.7	3518.8	3591.6	3616.1	3591.6	3518.8	3399.7	3237.1	3070.3	2981.0	2900.9
-27.5°	3018.5	3058.8	3083.3	3091.5	3083.3	3058.8	3018.5	2963.4	2894.9	2928.4	2966.5
-30°	2921.8	2906.9	2897.8	2894.8	2897.8	2906.9	2921.8	2942.3	2968.0	3067.0	3204.7
-32.5°	3071.5	3018.3	2986.1	2975.3	2986.1	3018.3	3071.5	3144.8	3237.3	3320.5	3386.4
-35°	3336.7	3311.5	3296.3	3291.2	3296.3	3311.5	3336.7	3371.5	3415.4	3452.3	3439.4
-37.5°	3446.3	3451.2	3454.1	3455.1	3454.1	3451.2	3446.3	3439.5	3430.9	3420.6	3383.3
-40°	3394.5	3408.8	3417.4	3420.3	3417.4	3408.8	3394.5	3374.6	3349.5	3319.2	3267.4
-42.5°	3269.8	3291.6	3304.7	3309.1	3304.7	3291.6	3269.8	3239.5	3201.0	3154.6	3011.2
-45°	2951.5	3047.3	3105.0	3124.3	3105.0	3047.3	2951.5	2818.4	2649.0	2444.4	2199.9
-47.5°	2052.1	2155.8	2218.3	2239.2	2218.3	2155.8	2052.1	1907.9	1724.0	1501.6	1242.1
-50°	1168.3	1182.6	1191.2	1194.1	1191.2	1182.6	1168.3	1148.5	1123.1	1092.4	1056.5
-52.5°	1029.1	1033.5	1036.2	1037.1	1036.2	1033.5	1029.1	1022.8	1014.9	1005.3	994.0
-55°	978.1	981.1	982.9	983.5	982.9	981.1	978.1	973.9	968.5	962.0	954.3
-57.5°	928.6	937.0	942.1	943.8	942.1	937.0	928.6	916.8	901.7	883.4	862.0
-60°	805.8	814.6	819.8	821.6	819.8	814.6	805.8	793.5	777.8	758.8	736.4
-62.5°	666.1	674.6	679.8	681.5	679.8	674.6	666.1	654.2	638.9	620.4	598.6
-65°	517.2	524.6	529.0	530.5	529.0	524.6	517.2	506.8	493.6	477.5	458.6
-67.5°	374.7	380.1	383.4	384.5	383.4	380.1	374.7	367.0	357.3	345.4	331.5
-70°	255.4	259.8	262.4	263.3	262.4	259.8	255.4	249.3	241.5	232.0	220.8
-72.5°	148.0	150.8	152.4	153.0	152.4	150.8	148.0	144.1	139.1	133.0	125.8
-75°	69.4	70.6	71.3	71.5	71.3	70.6	69.4	67.8	65.7	63.2	60.2
-77.5°	31.3	31.6	31.7	31.8	31.7	31.6	31.3	30.9	30.4	29.7	29.0
-80°	19.7	19.8	19.9	19.9	19.9	19.8	19.7	19.5	19.2	18.9	18.6
-82.5°	12.7	12.8	12.9	12.9	12.9	12.8	12.7	12.6	12.5	12.3	12.1
-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: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-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°	11.8	11.5	11.2	10.9	10.5	10.1	9.7	9.2	8.7	8.2	7.7
80°	18.2	17.7	17.3	16.7	16.1	15.5	14.8	14.1	13.3	12.6	11.8
77.5°	28.2	27.2	26.1	25.0	23.7	22.4	20.9	19.6	18.6	17.6	16.5
75°	56.8	53.0	48.7	44.1	39.0	33.5	30.6	28.7	26.7	24.7	22.5
72.5°	117.6	108.3	98.1	86.8	74.6	66.6	59.8	52.5	44.8	36.7	30.7
70°	208.0	193.6	177.6	160.1	144.2	129.1	112.9	95.8	77.7	65.2	55.5
67.5°	315.5	297.5	277.5	256.4	234.8	211.7	186.9	160.7	138.2	116.8	94.3
65°	437.0	412.7	385.7	361.0	334.5	306.0	275.6	245.2	214.3	181.9	149.3
62.5°	573.7	545.7	515.3	482.5	447.0	409.0	371.2	335.5	298.0	259.0	221.7
60°	710.9	682.2	648.1	610.7	570.3	527.1	482.5	435.3	385.7	342.4	297.5
57.5°	837.5	808.3	773.5	735.5	694.4	648.1	597.7	544.5	489.9	433.4	376.2
55°	945.6	919.3	886.2	850.0	809.5	761.7	710.9	655.4	594.8	531.5	467.9
52.5°	981.8	971.2	959.4	946.7	910.4	865.2	816.7	758.8	698.1	631.3	560.5
50°	1029.8	1014.2	997.0	979.7	964.9	949.0	908.2	853.9	793.5	725.7	653.4
47.5°	1157.0	1107.5	1053.1	1022.4	1000.8	979.3	961.3	939.4	878.6	814.6	739.6
45°	1880.2	1524.1	1185.0	1121.5	1053.5	1018.0	992.0	969.6	948.5	891.1	821.6
42.5°	2718.3	2392.9	2000.2	1546.0	1174.0	1096.7	1029.7	1000.6	973.8	950.6	891.1
40°	3201.3	3128.1	2759.4	2346.8	1846.6	1297.1	1122.9	1035.5	1003.5	973.8	948.5
37.5°	3340.4	3282.1	3196.3	3027.2	2557.2	2029.4	1416.6	1131.7	1035.5	1000.6	969.6
35°	3424.9	3383.9	3328.5	3242.7	3138.1	2663.6	2090.8	1416.6	1122.9	1029.7	992.0
32.5°	3454.0	3436.8	3413.7	3350.3	3266.2	3149.5	2663.6	2029.4	1297.1	1096.7	1018.0
30°	3326.0	3413.1	3444.1	3422.9	3357.6	3266.2	3138.1	2557.2	1846.6	1174.0	1053.5
27.5°	3106.5	3286.9	3389.2	3446.6	3422.9	3350.3	3242.7	3027.2	2346.8	1546.0	1121.5
25°	2946.6	3056.4	3262.8	3389.2	3444.1	3413.7	3328.5	3196.3	2759.4	2000.2	1185.0
22.5°	2914.1	2939.9	3056.4	3286.9	3413.1	3436.8	3383.9	3282.1	3128.1	2392.9	1524.1
20°	3052.9	2914.1	2946.6	3106.5	3326.0	3454.0	3424.9	3340.4	3201.3	2718.3	1880.2
17.5°	3335.6	3034.7	2900.9	2966.5	3204.7	3386.4	3439.4	3383.3	3267.4	3011.2	2199.9
15°	3917.2	3233.4	2981.0	2928.4	3067.0	3320.5	3452.3	3420.6	3319.2	3154.6	2444.4
12.5°	6130.8	3494.3	3070.3	2894.9	2968.0	3237.3	3415.4	3430.9	3349.5	3201.0	2649.0
10°	8750.3	4400.2	3237.1	2963.4	2942.3	3144.8	3371.5	3439.5	3374.6	3239.5	2818.4
7.5°	13255.1	5795.6	3399.7	3018.5	2921.8	3071.5	3336.7	3446.3	3394.5	3269.8	2951.5
5°	16602.0	6824.3	3518.8	3058.8	2906.9	3018.3	3311.5	3451.2	3408.8	3291.6	3047.3
2.5°	18667.2	7455.4	3591.6	3083.3	2897.8	2986.1	3296.3	3454.1	3417.4	3304.7	3105.0
0°	19365.8	7668.2	3616.1	3091.5	2894.8	2975.3	3291.2	3455.1	3420.3	3309.1	3124.3
-2.5°	18667.2	7455.4	3591.6	3083.3	2897.8	2986.1	3296.3	3454.1	3417.4	3304.7	3105.0
-5°	16602.0	6824.3	3518.8	3058.8	2906.9	3018.3	3311.5	3451.2	3408.8	3291.6	3047.3
-7.5°	13255.1	5795.6	3399.7	3018.5	2921.8	3071.5	3336.7	3446.3	3394.5	3269.8	2951.5
-10°	8750.3	4400.2	3237.1	2963.4	2942.3	3144.8	3371.5	3439.5	3374.6	3239.5	2818.4
-12.5°	6130.8	3494.3	3070.3	2894.9	2968.0	3237.3	3415.4	3430.9	3349.5	3201.0	2649.0
-15°	3917.2	3233.4	2981.0	2928.4	3067.0	3320.5	3452.3	3420.6	3319.2	3154.6	2444.4
-17.5°	3335.6	3034.7	2900.9	2966.5	3204.7	3386.4	3439.4	3383.3	3267.4	3011.2	2199.9
-20°	3052.9	2914.1	2946.6	3106.5	3326.0	3454.0	3424.9	3340.4	3201.3	2718.3	1880.2





REPORT NUMBER: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2914.1	2939.9	3056.4	3286.9	3413.1	3436.8	3383.9	3282.1	3128.1	2392.9	1524.1
-25°	2946.6	3056.4	3262.8	3389.2	3444.1	3413.7	3328.5	3196.3	2759.4	2000.2	1185.0
-27.5°	3106.5	3286.9	3389.2	3446.6	3422.9	3350.3	3242.7	3027.2	2346.8	1546.0	1121.5
-30°	3326.0	3413.1	3444.1	3422.9	3357.6	3266.2	3138.1	2557.2	1846.6	1174.0	1053.5
-32.5°	3454.0	3436.8	3413.7	3350.3	3266.2	3149.5	2663.6	2029.4	1297.1	1096.7	1018.0
-35°	3424.9	3383.9	3328.5	3242.7	3138.1	2663.6	2090.8	1416.6	1122.9	1029.7	992.0
-37.5°	3340.4	3282.1	3196.3	3027.2	2557.2	2029.4	1416.6	1131.7	1035.5	1000.6	969.6
-40°	3201.3	3128.1	2759.4	2346.8	1846.6	1297.1	1122.9	1035.5	1003.5	973.8	948.5
-42.5°	2718.3	2392.9	2000.2	1546.0	1174.0	1096.7	1029.7	1000.6	973.8	950.6	891.1
-45°	1880.2	1524.1	1185.0	1121.5	1053.5	1018.0	992.0	969.6	948.5	891.1	821.6
-47.5°	1157.0	1107.5	1053.1	1022.4	1000.8	979.3	961.3	939.4	878.6	814.6	739.6
-50°	1029.8	1014.2	997.0	979.7	964.9	949.0	908.2	853.9	793.5	725.7	653.4
-52.5°	981.8	971.2	959.4	946.7	910.4	865.2	816.7	758.8	698.1	631.3	560.5
-55°	945.6	919.3	886.2	850.0	809.5	761.7	710.9	655.4	594.8	531.5	467.9
-57.5°	837.5	808.3	773.5	735.5	694.4	648.1	597.7	544.5	489.9	433.4	376.2
-60°	710.9	682.2	648.1	610.7	570.3	527.1	482.5	435.3	385.7	342.4	297.5
-62.5°	573.7	545.7	515.3	482.5	447.0	409.0	371.2	335.5	298.0	259.0	221.7
-65°	437.0	412.7	385.7	361.0	334.5	306.0	275.6	245.2	214.3	181.9	149.3
-67.5°	315.5	297.5	277.5	256.4	234.8	211.7	186.9	160.7	138.2	116.8	94.3
-70°	208.0	193.6	177.6	160.1	144.2	129.1	112.9	95.8	77.7	65.2	55.5
-72.5°	117.6	108.3	98.1	86.8	74.6	66.6	59.8	52.5	44.8	36.7	30.7
-75°	56.8	53.0	48.7	44.1	39.0	33.5	30.6	28.7	26.7	24.7	22.5
-77.5°	28.2	27.2	26.1	25.0	23.7	22.4	20.9	19.6	18.6	17.6	16.5
-80°	18.2	17.7	17.3	16.7	16.1	15.5	14.8	14.1	13.3	12.6	11.8
-82.5°	11.8	11.5	11.2	10.9	10.5	10.1	9.7	9.2	8.7	8.2	7.7
-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: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-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°	11.1	10.3	9.5	8.7	7.8	7.0	6.5	6.1	5.6	5.1	4.6
77.5°	15.4	14.3	13.1	12.0	11.0	9.9	8.7	7.6	6.7	6.1	5.5
75°	20.2	18.7	17.3	15.8	14.3	12.7	11.4	10.0	8.6	7.2	6.4
72.5°	28.1	25.3	22.5	19.7	17.9	16.1	14.2	12.4	10.8	9.1	7.4
70°	45.5	35.0	29.5	26.2	22.7	19.5	17.3	15.2	13.0	11.1	9.1
67.5°	71.2	59.4	47.2	34.7	28.8	24.8	20.7	18.0	15.5	13.0	10.8
65°	123.3	96.4	70.0	56.1	41.7	30.4	25.9	21.3	18.0	15.2	12.4
62.5°	182.9	145.4	114.7	83.2	61.4	45.3	30.9	25.9	20.7	17.3	14.2
60°	251.9	208.0	162.7	125.8	90.5	63.2	45.3	30.4	24.8	19.5	16.1
57.5°	325.6	273.2	223.2	172.8	129.5	90.5	61.4	41.7	28.8	22.7	17.9
55°	402.0	342.6	284.5	228.3	172.8	125.8	83.2	56.1	34.7	26.2	19.7
52.5°	488.7	415.8	348.2	284.5	223.2	162.7	114.7	70.0	47.2	29.5	22.5
50°	575.1	495.7	415.8	342.6	273.2	208.0	145.4	96.4	59.4	35.0	25.3
47.5°	660.8	575.1	488.7	402.0	325.6	251.9	182.9	123.3	71.2	45.5	28.1
45°	739.6	653.4	560.5	467.9	376.2	297.5	221.7	149.3	94.3	55.5	30.7
42.5°	814.6	725.7	631.3	531.5	433.4	342.4	259.0	181.9	116.8	65.2	36.7
40°	878.6	793.5	698.1	594.8	489.9	385.7	298.0	214.3	138.2	77.7	44.8
37.5°	939.4	853.9	758.8	655.4	544.5	435.3	335.5	245.2	160.7	95.8	52.5
35°	961.3	908.2	816.7	710.9	597.7	482.5	371.2	275.6	186.9	112.9	59.8
32.5°	979.3	949.0	865.2	761.7	648.1	527.1	409.0	306.0	211.7	129.1	66.6
30°	1000.8	964.9	910.4	809.5	694.4	570.3	447.0	334.5	234.8	144.2	74.6
27.5°	1022.4	979.7	946.7	850.0	735.5	610.7	482.5	361.0	256.4	160.1	86.8
25°	1053.1	997.0	959.4	886.2	773.5	648.1	515.3	385.7	277.5	177.6	98.1
22.5°	1107.5	1014.2	971.2	919.3	808.3	682.2	545.7	412.7	297.5	193.6	108.3
20°	1157.0	1029.8	981.8	945.6	837.5	710.9	573.7	437.0	315.5	208.0	117.6
17.5°	1242.1	1056.5	994.0	954.3	862.0	736.4	598.6	458.6	331.5	220.8	125.8
15°	1501.6	1092.4	1005.3	962.0	883.4	758.8	620.4	477.5	345.4	232.0	133.0
12.5°	1724.0	1123.1	1014.9	968.5	901.7	777.8	638.9	493.6	357.3	241.5	139.1
10°	1907.9	1148.5	1022.8	973.9	916.8	793.5	654.2	506.8	367.0	249.3	144.1
7.5°	2052.1	1168.3	1029.1	978.1	928.6	805.8	666.1	517.2	374.7	255.4	148.0
5°	2155.8	1182.6	1033.5	981.1	937.0	814.6	674.6	524.6	380.1	259.8	150.8
2.5°	2218.3	1191.2	1036.2	982.9	942.1	819.8	679.8	529.0	383.4	262.4	152.4
0°	2239.2	1194.1	1037.1	983.5	943.8	821.6	681.5	530.5	384.5	263.3	153.0
-2.5°	2218.3	1191.2	1036.2	982.9	942.1	819.8	679.8	529.0	383.4	262.4	152.4
-5°	2155.8	1182.6	1033.5	981.1	937.0	814.6	674.6	524.6	380.1	259.8	150.8
-7.5°	2052.1	1168.3	1029.1	978.1	928.6	805.8	666.1	517.2	374.7	255.4	148.0
-10°	1907.9	1148.5	1022.8	973.9	916.8	793.5	654.2	506.8	367.0	249.3	144.1
-12.5°	1724.0	1123.1	1014.9	968.5	901.7	777.8	638.9	493.6	357.3	241.5	139.1
-15°	1501.6	1092.4	1005.3	962.0	883.4	758.8	620.4	477.5	345.4	232.0	133.0
-17.5°	1242.1	1056.5	994.0	954.3	862.0	736.4	598.6	458.6	331.5	220.8	125.8
-20°	1157.0	1029.8	981.8	945.6	837.5	710.9	573.7	437.0	315.5	208.0	117.6



REPORT NUMBER: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1107.5	1014.2	971.2	919.3	808.3	682.2	545.7	412.7	297.5	193.6	108.3
-25°	1053.1	997.0	959.4	886.2	773.5	648.1	515.3	385.7	277.5	177.6	98.1
-27.5°	1022.4	979.7	946.7	850.0	735.5	610.7	482.5	361.0	256.4	160.1	86.8
-30°	1000.8	964.9	910.4	809.5	694.4	570.3	447.0	334.5	234.8	144.2	74.6
-32.5°	979.3	949.0	865.2	761.7	648.1	527.1	409.0	306.0	211.7	129.1	66.6
-35°	961.3	908.2	816.7	710.9	597.7	482.5	371.2	275.6	186.9	112.9	59.8
-37.5°	939.4	853.9	758.8	655.4	544.5	435.3	335.5	245.2	160.7	95.8	52.5
-40°	878.6	793.5	698.1	594.8	489.9	385.7	298.0	214.3	138.2	77.7	44.8
-42.5°	814.6	725.7	631.3	531.5	433.4	342.4	259.0	181.9	116.8	65.2	36.7
-45°	739.6	653.4	560.5	467.9	376.2	297.5	221.7	149.3	94.3	55.5	30.7
-47.5°	660.8	575.1	488.7	402.0	325.6	251.9	182.9	123.3	71.2	45.5	28.1
-50°	575.1	495.7	415.8	342.6	273.2	208.0	145.4	96.4	59.4	35.0	25.3
-52.5°	488.7	415.8	348.2	284.5	223.2	162.7	114.7	70.0	47.2	29.5	22.5
-55°	402.0	342.6	284.5	228.3	172.8	125.8	83.2	56.1	34.7	26.2	19.7
-57.5°	325.6	273.2	223.2	172.8	129.5	90.5	61.4	41.7	28.8	22.7	17.9
-60°	251.9	208.0	162.7	125.8	90.5	63.2	45.3	30.4	24.8	19.5	16.1
-62.5°	182.9	145.4	114.7	83.2	61.4	45.3	30.9	25.9	20.7	17.3	14.2
-65°	123.3	96.4	70.0	56.1	41.7	30.4	25.9	21.3	18.0	15.2	12.4
-67.5°	71.2	59.4	47.2	34.7	28.8	24.8	20.7	18.0	15.5	13.0	10.8
-70°	45.5	35.0	29.5	26.2	22.7	19.5	17.3	15.2	13.0	11.1	9.1
-72.5°	28.1	25.3	22.5	19.7	17.9	16.1	14.2	12.4	10.8	9.1	7.4
-75°	20.2	18.7	17.3	15.8	14.3	12.7	11.4	10.0	8.6	7.2	6.4
-77.5°	15.4	14.3	13.1	12.0	11.0	9.9	8.7	7.6	6.7	6.1	5.5
-80°	11.1	10.3	9.5	8.7	7.8	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: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-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°	8.6	6.7	5.6	4.4	3.1	1.5	0.0
65°	10.0	7.6	6.1	4.8	3.4	1.7	0.0
62.5°	11.4	8.7	6.5	5.1	3.7	1.8	0.0
60°	12.7	9.9	7.0	5.5	4.0	2.0	0.0
57.5°	14.3	11.0	7.8	5.8	4.2	2.1	0.0
55°	15.8	12.0	8.7	6.2	4.4	2.3	0.0
52.5°	17.3	13.1	9.5	6.5	4.6	2.4	0.0
50°	18.7	14.3	10.3	6.8	4.9	2.6	0.0
47.5°	20.2	15.4	11.1	7.1	5.1	2.7	0.0
45°	22.5	16.5	11.8	7.7	5.2	2.8	0.0
42.5°	24.7	17.6	12.6	8.2	5.4	2.9	0.0
40°	26.7	18.6	13.3	8.7	5.6	3.1	0.0
37.5°	28.7	19.6	14.1	9.2	5.8	3.2	0.0
35°	30.6	20.9	14.8	9.7	5.9	3.3	0.0
32.5°	33.5	22.4	15.5	10.1	6.1	3.4	0.0
30°	39.0	23.7	16.1	10.5	6.2	3.5	0.0
27.5°	44.1	25.0	16.7	10.9	6.3	3.5	0.0
25°	48.7	26.1	17.3	11.2	6.4	3.6	0.0
22.5°	53.0	27.2	17.7	11.5	6.5	3.7	0.0
20°	56.8	28.2	18.2	11.8	6.6	3.8	0.0
17.5°	60.2	29.0	18.6	12.1	6.7	3.8	0.0
15°	63.2	29.7	18.9	12.3	6.8	3.9	0.0
12.5°	65.7	30.4	19.2	12.5	6.9	3.9	0.0
10°	67.8	30.9	19.5	12.6	6.9	3.9	0.0
7.5°	69.4	31.3	19.7	12.7	6.9	4.0	0.0
5°	70.6	31.6	19.8	12.8	7.0	4.0	0.0
2.5°	71.3	31.7	19.9	12.9	7.0	4.0	0.0
0°	71.5	31.8	19.9	12.9	7.0	4.0	0.0
-2.5°	71.3	31.7	19.9	12.9	7.0	4.0	0.0
-5°	70.6	31.6	19.8	12.8	7.0	4.0	0.0
-7.5°	69.4	31.3	19.7	12.7	6.9	4.0	0.0
-10°	67.8	30.9	19.5	12.6	6.9	3.9	0.0
-12.5°	65.7	30.4	19.2	12.5	6.9	3.9	0.0
-15°	63.2	29.7	18.9	12.3	6.8	3.9	0.0
-17.5°	60.2	29.0	18.6	12.1	6.7	3.8	0.0
-20°	56.8	28.2	18.2	11.8	6.6	3.8	0.0



REPORT NUMBER: P731222 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	53.0	27.2	17.7	11.5	6.5	3.7	0.0
-25°	48.7	26.1	17.3	11.2	6.4	3.6	0.0
-27.5°	44.1	25.0	16.7	10.9	6.3	3.5	0.0
-30°	39.0	23.7	16.1	10.5	6.2	3.5	0.0
-32.5°	33.5	22.4	15.5	10.1	6.1	3.4	0.0
-35°	30.6	20.9	14.8	9.7	5.9	3.3	0.0
-37.5°	28.7	19.6	14.1	9.2	5.8	3.2	0.0
-40°	26.7	18.6	13.3	8.7	5.6	3.1	0.0
-42.5°	24.7	17.6	12.6	8.2	5.4	2.9	0.0
-45°	22.5	16.5	11.8	7.7	5.2	2.8	0.0
-47.5°	20.2	15.4	11.1	7.1	5.1	2.7	0.0
-50°	18.7	14.3	10.3	6.8	4.9	2.6	0.0
-52.5°	17.3	13.1	9.5	6.5	4.6	2.4	0.0
-55°	15.8	12.0	8.7	6.2	4.4	2.3	0.0
-57.5°	14.3	11.0	7.8	5.8	4.2	2.1	0.0
-60°	12.7	9.9	7.0	5.5	4.0	2.0	0.0
-62.5°	11.4	8.7	6.5	5.1	3.7	1.8	0.0
-65°	10.0	7.6	6.1	4.8	3.4	1.7	0.0
-67.5°	8.6	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

