

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: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-1S-VHE**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-57-80-1S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 1S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

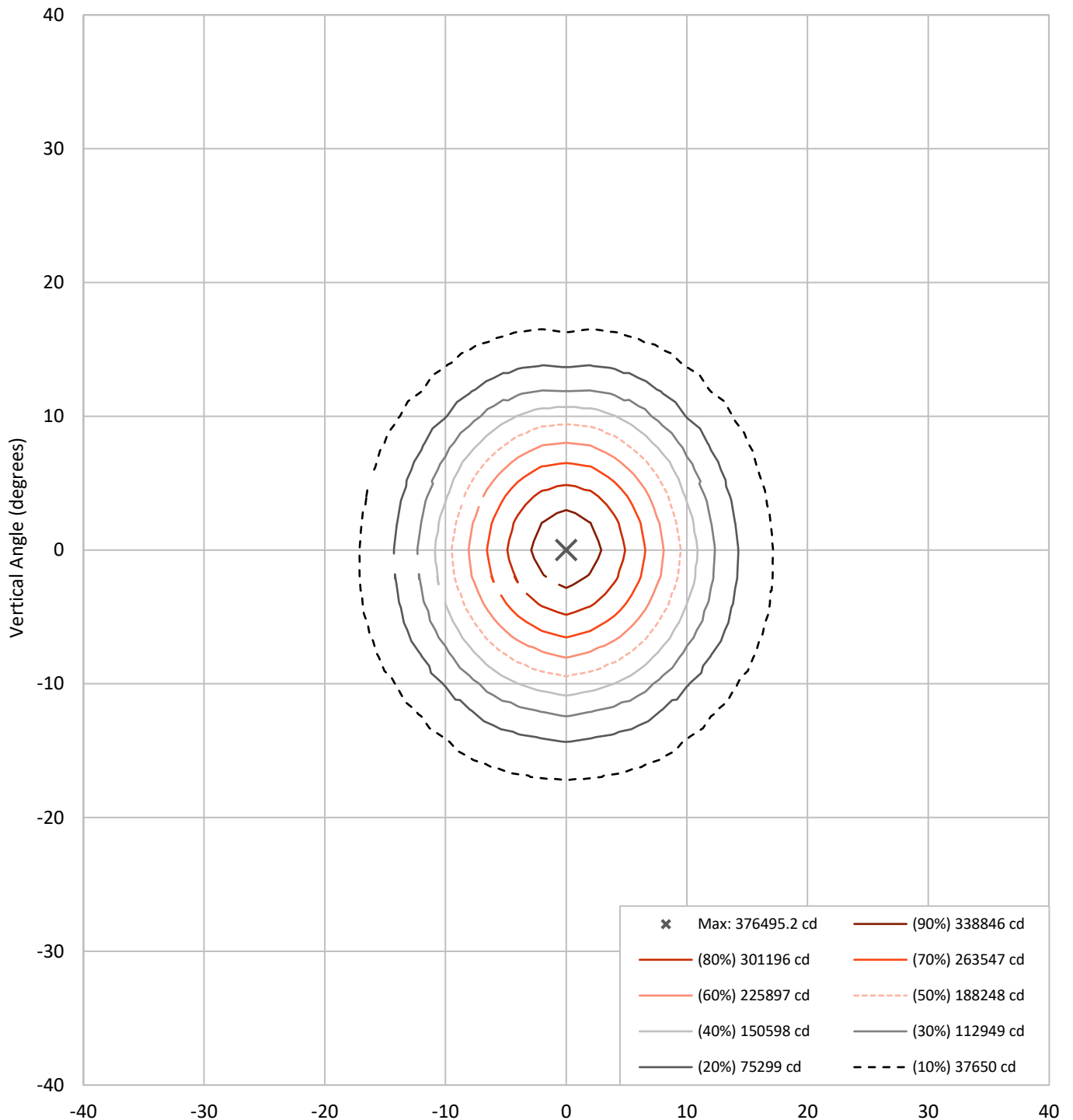
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	49625.7 lumens	Max Intensity:	376495.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	144.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 18.9°V	Field Angle (10%):	34°H x 33.3°V
Beam Lumens:	21998.2 lumens	Field Lumens:	40066.3 lumens
Beam Efficiency:	44.3%	Field Efficiency:	80.7%

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: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

### Iso-Candela Plot





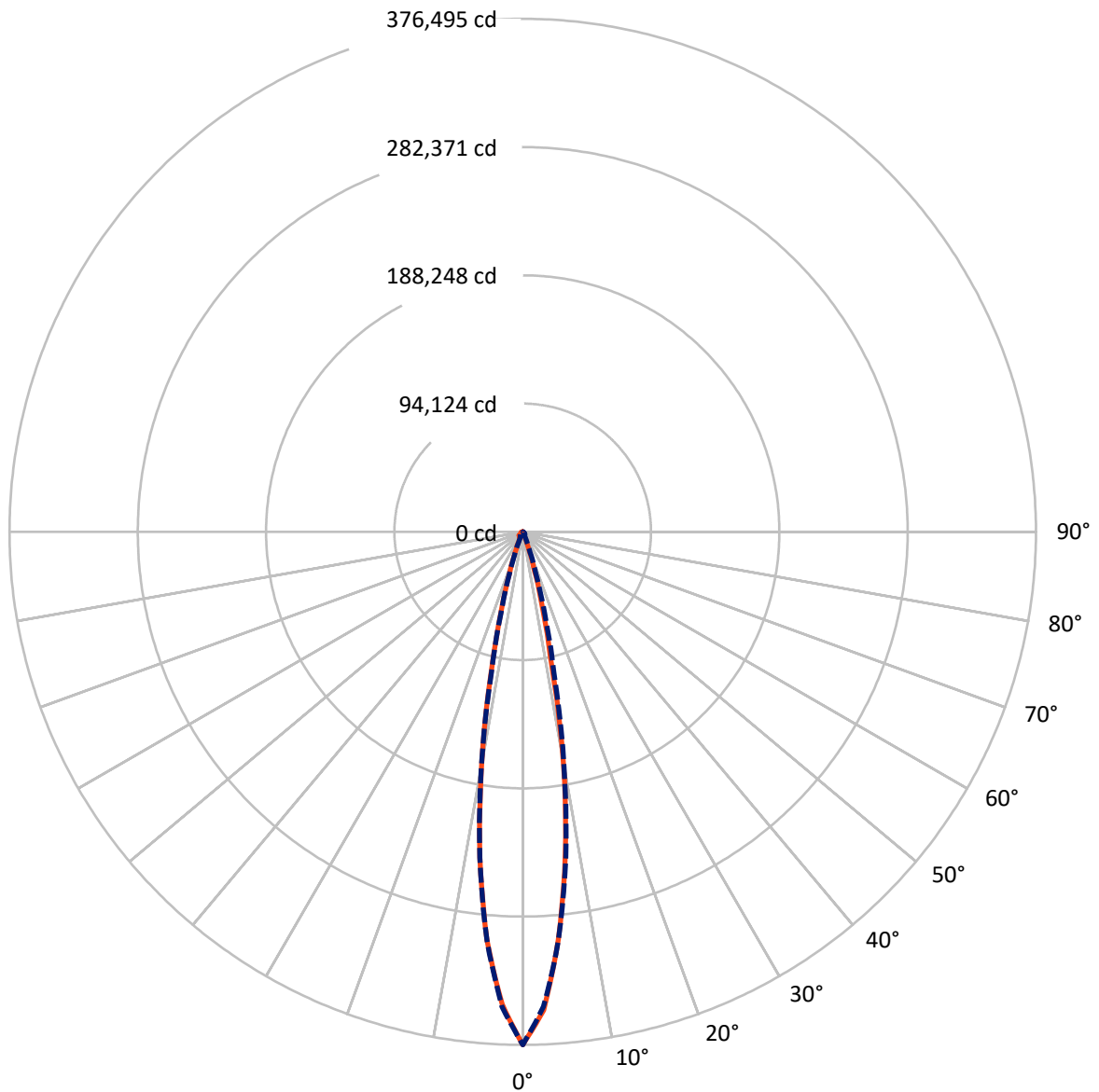
REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

### Lumen Table

90	0.2		0.7		1.3		1.7		1.9		1.7		1.3		0.7		0.2			
80	0.2		0.1	0.2	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.2	0.1	0.2		
70	0.2		0.3	0.6	0.7	0.6	0.5	0.7	0.7	0.7	0.7	0.7	0.5	0.6	0.7	0.6	0.6	0.3	0.2	
60	0.2		0.9	1.9	3.6	5.6	9.7	14.7	16.3	16.3	14.7	9.7	5.6	3.6	1.9	0.9	0.7			
50	0.7		1.9	5.3	9.7	20.3	33.2	37.2	39.0	39.0	37.2	33.2	20.3	9.7	5.3	1.9	0.7			
40	0.7		3.2	8.7	17.9	42.7	45.3	55.0	91.0	91.0	55.0	45.3	42.7	17.9	8.7	3.2	1.6			
30	1.6		4.3	11.2	32.0	56.6	66.8	415.9	1657.1	1657.1	415.9	66.8	56.6	32.0	11.2	4.3	1.6			
20	1.6		5.3	13.2	42.3	63.1	124.6	1680.2	6990.6	6990.6	1680.2	124.6	63.1	42.3	13.2	5.3	2.4			
10	2.4		5.9	14.8	45.2	70.2	139.3	1766.4	6956.9	6956.9	1766.4	139.3	70.2	45.2	14.8	5.9	2.4			
0	2.4		6.2	15.8	44.6	77.7	95.8	490.4	1795.6	1795.6	490.4	95.8	77.7	44.6	15.8	6.2	2.8			
-10	2.8		6.0	16.0	34.5	79.2	97.0	105.8	164.3	164.3	105.8	97.0	79.2	34.5	16.0	6.0	2.8			
-20	2.8		5.4	14.9	27.5	58.0	97.5	109.5	110.8	110.8	109.5	97.5	58.0	27.5	14.9	5.4	2.6			
-30	2.6		4.5	12.3	24.1	36.0	54.3	80.5	100.4	100.4	80.5	54.3	36.0	24.1	12.3	4.5	2.6			
-40	2.6		3.5	8.9	17.5	28.0	36.5	42.5	46.4	46.4	42.5	36.5	28.0	17.5	8.9	3.5	2.3			
-50	2.3		2.8	5.8	10.7	16.9	22.7	27.7	31.0	31.0	27.7	22.7	16.9	10.7	5.8	2.8	2.3			
-60	2.3		2.8	5.8	10.7	16.9	22.7	27.7	31.0	31.0	27.7	22.7	16.9	10.7	5.8	2.8	2.3			
-70	2.3		2.8	5.8	10.7	16.9	22.7	27.7	31.0	31.0	27.7	22.7	16.9	10.7	5.8	2.8	2.3			
-80	1.5		10.5		25.0		39.3		46.9		39.3		25.0		10.5		1.5			
-90	1.5		10.5		25.0		39.3		46.9		39.3		25.0		10.5		1.5			

REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

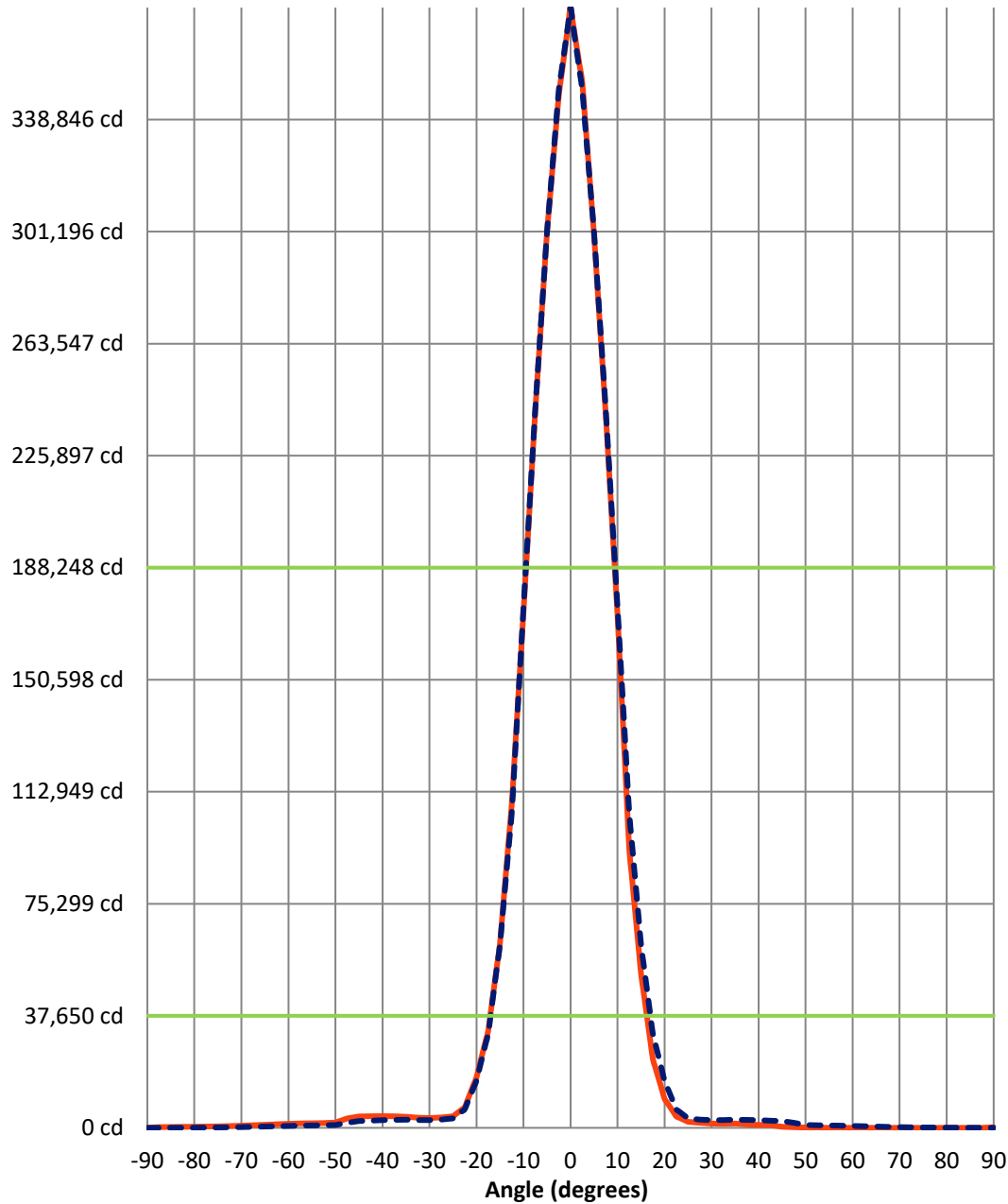
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

### Luminous Intensity Plot



**Beam:**  
H Angle: 19°  
V Angle: 18.9°  
Lumens: 21998.2  
Efficiency: 44.3%

**Field:**  
H Angle: 34°  
V Angle: 33.3°  
Lumens: 40066.3  
Efficiency: 80.7%

**Spill:**  
Lumens: 9559.4  
Efficiency: 19.3%

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



REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	5.4	14.4	23.4	35.1	46.7	58.4	70.1	78.4	86.7	95.0	103.3
87.5°	5.4	4.7	3.8	3.8	3.8	3.7	3.6	3.6	3.6	3.6	3.6
85°	5.4	4.8	3.9	4.0	3.9	3.8	3.6	3.6	3.6	3.6	3.6
82.5°	5.4	5.0	4.1	4.1	4.1	3.9	3.6	3.6	3.6	3.7	3.6
80°	5.4	5.1	4.3	4.3	4.2	4.0	3.7	3.9	3.9	3.9	3.6
77.5°	5.4	5.3	4.5	4.5	4.4	4.3	4.2	4.3	4.3	4.1	3.8
75°	5.4	5.5	4.7	4.7	4.7	4.9	4.7	4.7	4.7	4.7	4.3
72.5°	5.4	5.6	4.9	4.9	5.3	5.6	5.3	5.3	5.6	5.4	4.9
70°	5.4	5.8	5.1	5.1	6.0	6.3	6.0	6.3	6.5	6.2	5.9
67.5°	5.4	6.0	5.3	5.7	6.7	6.9	7.2	7.3	7.4	7.7	7.1
65°	5.4	6.2	5.6	6.3	7.4	8.0	8.4	8.3	9.1	9.2	8.7
62.5°	5.4	6.4	5.8	6.9	8.1	9.3	9.7	9.9	10.9	11.1	11.1
60°	5.4	6.5	6.1	7.5	8.8	10.6	11.1	11.7	12.7	13.7	13.6
57.5°	5.4	6.7	6.7	8.2	10.0	12.1	13.3	13.7	15.3	16.5	18.0
55°	5.4	6.9	7.4	8.8	11.3	13.5	15.7	16.2	18.1	20.0	23.6
52.5°	5.4	7.1	8.0	9.4	12.6	15.2	18.3	19.6	21.1	26.0	29.7
50°	5.4	7.3	8.7	10.0	14.0	17.6	21.0	23.4	25.1	32.5	39.4
47.5°	5.4	7.5	9.4	10.7	15.3	20.0	23.9	27.4	31.3	39.3	50.3
45°	5.4	7.7	10.1	11.8	16.7	22.5	27.7	31.7	39.1	49.8	61.8
42.5°	5.4	7.9	10.8	12.8	18.1	25.1	31.7	37.8	47.2	61.0	79.0
40°	5.4	8.1	11.6	14.2	19.8	27.7	35.8	45.1	56.7	72.8	98.3
37.5°	5.4	8.3	12.3	15.8	21.9	30.4	40.0	52.6	68.6	88.0	118.9
35°	5.4	8.5	13.1	17.4	24.0	33.6	44.4	60.3	80.8	107.0	142.1
32.5°	5.4	8.7	13.9	19.1	26.0	37.1	49.4	68.0	93.1	125.8	166.3
30°	5.4	8.8	14.7	20.7	28.0	40.6	55.8	76.5	105.6	144.0	189.4
27.5°	5.4	9.0	15.5	22.4	30.9	44.1	62.0	86.8	119.3	161.9	211.5
25°	5.4	9.2	16.3	24.1	33.9	47.6	68.3	97.0	134.3	180.2	232.6
22.5°	5.4	9.4	17.1	25.8	36.9	51.3	74.4	107.0	148.7	198.1	255.9
20°	5.4	9.6	17.9	27.5	39.8	55.6	80.4	116.9	162.6	215.0	277.8
17.5°	5.4	9.8	18.6	29.1	42.6	59.7	86.4	126.5	175.7	230.8	298.4
15°	5.4	9.9	19.4	30.8	45.5	63.7	92.2	135.4	188.2	245.6	317.6
12.5°	5.4	10.1	20.1	32.4	48.2	67.5	97.7	143.1	199.5	259.2	335.3
10°	5.4	10.3	20.9	33.9	50.8	71.1	102.8	150.2	209.8	274.1	353.6
7.5°	5.4	10.4	21.6	35.4	53.4	74.5	107.6	156.6	219.3	288.6	374.8
5°	5.4	10.5	22.2	36.9	55.8	77.8	112.0	162.3	228.1	302.3	394.7
2.5°	5.4	10.7	22.8	38.2	58.1	80.8	115.9	167.3	235.8	314.9	413.1
0°	5.4	10.8	23.4	39.5	60.2	83.6	119.5	171.6	242.6	326.2	429.6
-2.5°	5.4	11.3	24.7	41.6	62.9	87.1	123.7	177.5	250.5	334.9	438.8
-5°	5.4	11.8	25.9	43.6	65.4	90.3	127.6	182.6	257.3	342.1	445.9
-7.5°	5.4	12.3	27.0	45.4	67.8	93.3	130.9	186.9	262.7	347.8	450.9
-10°	5.4	12.8	28.1	47.2	70.0	96.0	133.8	190.3	266.8	352.0	453.8
-12.5°	5.4	13.3	29.2	48.9	72.0	98.5	136.3	192.8	269.5	354.8	456.9
-15°	5.4	13.7	30.1	50.4	73.9	100.7	138.3	194.3	271.0	357.3	458.7
-17.5°	5.4	14.1	31.0	51.8	75.6	102.6	139.7	195.4	271.5	358.0	457.9
-20°	5.4	14.6	31.8	53.0	77.1	104.2	141.0	196.0	270.5	357.0	454.7



REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.4	14.9	32.5	54.1	78.4	105.6	142.2	195.5	268.1	354.0	448.8
-25°	5.4	15.3	33.1	55.1	79.5	106.9	142.8	193.8	264.2	349.2	440.4
-27.5°	5.4	15.6	33.7	55.9	80.5	108.0	142.8	191.1	258.8	342.9	433.2
-30°	5.4	15.9	34.1	56.6	81.3	108.7	142.1	187.2	253.8	335.4	424.0
-32.5°	5.4	16.2	34.5	57.1	81.9	109.1	140.9	185.1	248.5	326.2	412.6
-35°	5.4	16.4	34.7	57.4	82.3	109.2	140.4	183.1	241.7	315.2	399.1
-37.5°	5.4	16.7	34.9	57.6	82.5	109.1	140.1	180.3	233.6	302.6	385.1
-40°	5.4	16.9	34.9	57.6	82.4	109.1	139.4	176.7	224.1	290.9	369.1
-42.5°	5.4	17.0	34.9	57.4	82.2	108.7	138.3	172.3	217.2	278.3	350.5
-45°	5.4	17.1	34.7	57.1	81.8	108.1	136.7	168.5	211.2	264.0	330.1
-47.5°	5.4	17.2	34.5	56.6	81.1	107.1	134.6	166.1	204.3	248.1	312.0
-50°	5.4	17.3	34.1	56.0	80.2	105.8	132.9	163.1	196.0	238.4	292.1
-52.5°	5.4	17.3	33.7	55.3	79.1	104.3	130.9	159.7	189.9	227.5	271.3
-55°	5.4	17.3	33.1	54.5	77.7	102.5	128.6	155.8	184.7	215.5	257.3
-57.5°	5.4	17.3	32.5	53.4	76.1	100.4	125.8	152.4	179.0	207.4	242.1
-60°	5.4	17.2	31.8	52.3	74.3	98.0	122.8	148.4	173.0	200.2	228.3
-62.5°	5.4	17.1	31.4	50.9	72.4	95.3	119.3	143.8	167.5	192.4	219.4
-65°	5.4	17.0	31.0	49.5	70.3	92.4	115.6	138.8	161.6	185.1	209.8
-67.5°	5.4	16.9	30.5	47.9	68.0	89.2	111.5	133.4	155.2	177.7	200.7
-70°	5.4	16.7	30.0	46.2	65.5	85.8	107.1	127.7	148.3	169.7	191.5
-72.5°	5.4	16.5	29.4	45.0	62.8	82.2	102.4	121.6	140.9	160.9	181.7
-75°	5.4	16.3	28.7	43.8	60.0	78.4	97.5	115.2	133.1	151.7	170.9
-77.5°	5.4	16.0	27.9	42.6	57.9	74.3	92.3	108.4	124.9	142.0	159.6
-80°	5.4	15.7	27.1	41.3	55.9	71.0	86.8	101.4	116.3	131.7	147.6
-82.5°	5.4	15.4	26.3	39.8	53.8	68.1	82.7	94.8	107.4	121.1	135.1
-85°	5.4	15.1	25.3	38.3	51.5	65.0	78.7	89.5	100.6	111.9	123.5
-87.5°	5.4	14.8	24.4	36.7	49.2	61.8	74.5	84.0	93.7	103.5	113.5
-90°	5.4	4.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6





REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	111.2	119.1	126.9	134.8	140.7	146.5	152.4	158.2	163.1	168.1	173.0
87.5°	3.4	3.2	2.9	2.7	2.7	2.7	2.7	2.7	2.5	2.3	2.0
85°	3.4	3.2	2.9	2.7	2.7	2.7	2.7	2.7	2.5	2.3	2.0
82.5°	3.4	3.2	2.9	2.7	2.7	2.7	2.7	2.7	2.5	2.4	2.3
80°	3.4	3.2	3.1	3.0	3.0	3.0	2.9	2.7	2.7	2.7	2.7
77.5°	3.7	3.6	3.6	3.5	3.4	3.3	3.2	3.2	3.2	3.1	3.0
75°	4.1	4.1	4.0	3.8	3.5	3.5	3.6	3.6	3.5	3.2	3.0
72.5°	4.7	4.7	4.4	3.9	3.8	3.9	3.8	3.7	3.9	4.4	4.9
70°	5.4	5.3	5.2	4.8	4.3	4.5	5.2	5.9	6.6	7.7	9.2
67.5°	6.4	6.6	6.4	5.9	5.9	6.8	7.6	10.5	13.6	15.3	16.0
65°	8.0	8.1	8.5	8.7	8.1	10.6	13.9	17.7	21.2	21.9	21.3
62.5°	9.9	10.9	11.7	12.4	13.3	15.8	19.6	23.4	27.2	26.1	22.5
60°	13.7	14.3	16.4	18.5	19.2	20.6	24.7	26.8	28.0	27.3	21.2
57.5°	18.4	19.5	23.0	25.4	26.1	24.5	26.1	27.4	27.3	24.0	18.4
55°	25.0	26.3	30.6	33.7	33.6	27.7	27.3	28.6	26.5	23.3	18.2
52.5°	34.4	35.2	39.9	43.3	42.1	36.0	31.6	33.6	33.4	29.2	24.8
50°	44.8	48.8	50.5	55.3	55.0	50.0	41.8	45.9	53.2	51.9	45.7
47.5°	59.5	64.7	64.9	70.7	73.3	77.6	70.6	79.4	90.1	112.1	105.1
45°	77.2	85.7	86.4	91.8	105.3	121.6	128.2	127.7	182.0	201.6	215.8
42.5°	96.7	110.4	116.3	115.8	159.5	184.3	198.4	243.2	284.5	296.9	303.6
40°	121.4	138.0	150.6	178.7	223.9	258.2	293.6	341.5	364.0	366.2	366.3
37.5°	148.5	172.6	192.9	240.9	298.5	336.6	380.6	401.2	416.8	417.7	435.4
35°	177.5	210.0	247.6	301.1	364.6	407.7	433.2	451.8	460.4	479.9	565.9
32.5°	210.9	250.0	299.1	358.6	419.2	463.2	478.5	494.5	515.3	573.3	825.6
30°	244.4	295.0	348.0	412.1	473.5	504.5	520.6	540.8	573.3	799.7	1149.3
27.5°	272.9	337.2	395.0	461.8	524.5	546.1	564.6	594.8	733.1	1050.7	1536.5
25°	300.2	370.7	438.5	510.9	562.9	586.6	610.0	650.9	920.7	1424.2	1755.7
22.5°	327.5	404.6	477.9	559.5	601.1	625.7	661.5	814.6	1192.0	1797.3	1953.2
20°	355.5	438.5	517.1	598.7	637.8	663.3	712.6	1000.0	1523.6	1956.5	2100.9
17.5°	383.0	471.1	554.0	626.4	666.9	703.1	781.1	1186.5	1822.1	2113.6	2214.1
15°	409.6	502.4	587.5	653.2	695.9	745.9	942.0	1434.5	2015.7	2254.6	2350.0
12.5°	435.2	531.9	617.7	678.9	724.9	788.4	1110.5	1679.7	2145.3	2365.6	2457.0
10°	459.3	559.7	644.9	703.4	753.5	829.9	1280.3	1886.6	2252.3	2440.7	2510.3
7.5°	482.2	583.7	669.1	726.6	781.4	869.9	1445.0	2057.4	2336.7	2504.3	2547.2
5°	502.1	603.3	691.6	751.5	809.5	905.3	1586.0	2194.0	2402.1	2557.4	2585.3
2.5°	519.3	620.2	711.8	775.6	836.6	933.6	1654.1	2249.4	2410.4	2580.7	2624.8
0°	533.8	634.5	729.7	798.0	861.8	958.0	1693.1	2278.1	2400.3	2587.3	2666.4
-2.5°	545.7	653.9	755.2	821.6	885.9	981.1	1690.3	2300.3	2425.6	2646.8	2825.8
-5°	555.1	670.2	777.7	843.4	908.0	1001.0	1659.9	2293.9	2460.1	2699.4	2924.0
-7.5°	561.8	683.0	796.7	864.0	929.7	1023.6	1638.3	2321.5	2560.4	2761.9	2963.8
-10°	566.3	691.4	808.2	883.2	951.6	1046.0	1591.6	2309.9	2654.1	2824.6	3002.0
-12.5°	571.4	696.2	815.6	899.9	970.6	1063.6	1509.2	2254.8	2740.9	2892.2	3039.5
-15°	573.6	697.8	819.6	914.0	986.7	1076.2	1389.6	2152.7	2798.9	2928.9	3063.4
-17.5°	572.6	696.2	819.9	925.2	999.6	1083.4	1231.6	1963.4	2707.8	2943.3	3085.6
-20°	568.4	691.6	816.7	933.5	1009.3	1092.4	1206.2	1745.9	2458.9	2932.5	3101.5



REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	561.0	683.9	809.1	928.9	1020.1	1103.9	1207.4	1520.4	2165.3	2895.9	3102.8
-25°	551.4	673.1	797.3	923.9	1029.6	1111.7	1203.8	1323.4	1874.6	2580.0	3071.7
-27.5°	539.7	658.5	785.8	914.4	1037.2	1116.7	1204.6	1314.0	1618.2	2215.1	2953.6
-30°	525.1	642.1	769.6	899.5	1026.5	1122.1	1204.9	1292.4	1404.7	1885.9	2522.5
-32.5°	508.6	622.2	748.4	877.6	1006.7	1125.8	1197.9	1277.1	1373.7	1546.6	2090.4
-35°	491.9	601.8	722.4	850.5	981.5	1104.2	1192.0	1262.9	1342.0	1447.2	1695.5
-37.5°	475.7	577.9	692.0	818.0	946.6	1065.6	1181.0	1251.0	1323.5	1397.5	1500.8
-40°	456.6	550.6	661.0	780.2	901.1	1019.9	1134.3	1239.0	1305.6	1369.7	1436.7
-42.5°	434.7	526.2	627.5	736.5	850.7	966.0	1082.2	1192.2	1285.8	1343.2	1404.2
-45°	411.1	498.8	591.6	692.0	795.7	907.2	1019.1	1131.4	1231.4	1320.8	1375.3
-47.5°	384.6	468.5	557.3	644.1	740.7	843.3	951.2	1056.7	1159.7	1254.8	1347.7
-50°	357.0	435.6	517.5	598.5	684.8	778.6	877.7	977.7	1076.5	1173.2	1264.6
-52.5°	332.4	399.5	475.1	552.2	630.6	714.1	802.3	892.8	987.4	1081.5	1166.4
-55°	305.8	367.0	430.1	502.7	577.2	652.4	726.1	807.6	892.1	980.7	1060.0
-57.5°	284.3	333.3	388.7	450.3	520.1	590.8	655.7	721.3	796.5	875.1	943.9
-60°	265.4	304.0	349.0	402.5	459.8	523.6	584.7	645.4	706.1	766.1	831.1
-62.5°	246.9	280.5	315.8	356.3	407.1	456.1	509.9	565.9	621.9	675.7	727.7
-65°	235.8	259.2	289.3	322.4	355.5	398.2	441.7	484.7	534.2	582.8	630.4
-67.5°	223.8	245.9	268.3	292.7	323.1	351.1	378.9	417.9	456.4	492.8	530.3
-70°	212.5	232.2	252.9	274.1	294.5	315.3	340.7	366.0	390.8	417.6	449.8
-72.5°	200.9	219.1	237.7	256.7	275.2	292.4	309.6	326.9	347.1	368.9	390.2
-75°	188.5	205.6	222.6	239.9	255.9	271.1	286.6	302.3	317.6	332.8	348.1
-77.5°	175.3	190.7	206.4	222.4	236.5	249.9	263.5	277.2	290.7	304.0	317.2
-80°	161.6	175.4	189.4	203.5	215.7	227.6	239.5	251.5	263.4	275.1	286.7
-82.5°	147.3	159.4	171.6	184.1	194.5	204.7	214.8	225.0	235.0	245.0	254.9
-85°	133.3	143.0	153.5	164.0	172.8	181.4	190.1	198.7	207.0	215.3	223.5
-87.5°	122.3	131.1	139.9	148.7	155.5	162.3	169.1	175.9	182.2	188.6	195.0
-90°	3.4	3.2	2.9	2.7	2.7	2.7	2.7	2.7	2.5	2.3	2.0



REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	177.9	181.3	184.7	188.0	191.4	194.3	197.3	200.2	203.1	204.9	206.7
87.5°	1.8	1.8	1.7	1.7	1.7	1.5	1.3	1.1	0.9	0.9	0.9
85°	1.8	1.8	1.8	1.8	1.8	1.6	1.4	1.1	0.9	0.9	0.9
82.5°	2.2	2.2	2.1	2.0	1.8	1.8	1.7	1.7	1.7	1.7	1.8
80°	2.7	2.5	2.3	2.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	2.8	2.5	2.3	2.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	2.8	2.7	2.8	2.8	2.7	2.7	2.7	2.6	2.5	2.4	2.2
72.5°	5.4	5.5	5.5	5.7	5.7	5.8	6.1	6.2	6.2	6.3	6.3
70°	10.1	10.5	10.7	10.6	10.0	9.4	9.2	8.9	8.7	8.9	9.4
67.5°	15.4	14.3	13.8	13.0	11.6	10.4	9.6	8.9	8.1	7.7	7.6
65°	19.1	15.1	13.1	11.6	10.5	9.1	7.9	6.8	5.8	5.2	4.9
62.5°	18.2	12.9	10.2	8.6	7.2	5.9	4.9	4.1	3.6	3.3	3.3
60°	15.5	10.1	7.1	5.8	4.3	2.9	2.7	2.5	2.3	2.1	2.3
57.5°	13.9	9.1	5.5	5.4	4.7	3.4	2.9	2.9	2.5	1.8	2.1
55°	15.4	13.0	9.1	9.3	9.1	7.6	6.5	7.8	7.5	5.9	6.4
52.5°	23.2	26.6	21.7	20.1	27.4	27.2	21.3	29.1	33.4	32.6	33.3
50°	54.5	61.5	69.0	63.2	77.5	86.1	84.2	94.4	104.8	104.5	107.8
47.5°	129.0	148.5	150.6	154.5	170.9	191.8	208.8	220.7	226.8	224.3	226.0
45°	230.9	235.3	245.3	267.6	295.6	329.2	354.8	369.7	419.8	455.4	476.2
42.5°	306.0	319.7	344.4	403.3	446.5	545.7	665.8	712.3	771.3	801.2	803.1
40°	381.3	416.1	518.2	625.6	858.6	1032.0	1042.3	1115.7	1149.6	1112.3	1106.7
37.5°	505.8	635.1	810.5	1058.5	1167.0	1214.1	1239.9	1249.3	1256.1	1249.9	1246.7
35°	751.1	976.0	1148.1	1229.0	1278.0	1279.6	1285.6	1284.7	1276.7	1272.5	1263.6
32.5°	1112.9	1327.3	1332.6	1326.3	1336.6	1330.7	1319.4	1314.2	1296.8	1286.3	1289.9
30°	1485.9	1487.1	1465.9	1416.8	1392.2	1384.6	1368.4	1355.0	1338.4	1340.9	1398.3
27.5°	1633.9	1615.7	1586.1	1543.7	1461.3	1445.2	1432.1	1426.4	1495.4	1558.5	1614.7
25°	1799.5	1752.5	1736.2	1699.2	1614.5	1520.7	1561.9	1626.8	1717.0	1810.9	1901.5
22.5°	1942.7	1908.8	1898.3	1884.5	1746.2	1705.8	1762.4	1869.1	1992.3	2155.5	2621.3
20°	2083.9	2047.2	2035.2	1966.2	1893.7	1903.6	2008.8	2194.9	2539.4	3777.3	5288.9
17.5°	2202.5	2164.5	2123.5	2043.0	2020.0	2120.8	2331.2	2984.8	4610.9	8674.1	12803.8
15°	2313.0	2263.2	2193.5	2140.6	2184.3	2372.2	2893.2	5120.1	10387.3	17207.5	25806.4
12.5°	2411.3	2335.0	2237.4	2210.0	2342.9	2659.3	4702.6	10047.0	18104.0	27820.2	48007.5
10°	2479.6	2380.8	2295.7	2343.0	2554.2	3403.6	6767.2	15062.7	26982.3	48713.8	73846.4
7.5°	2509.0	2419.6	2370.0	2471.6	2753.7	4371.0	10187.2	20831.9	38109.5	67330.8	107430.5
5°	2542.3	2480.6	2452.9	2598.9	2945.8	5159.2	12646.8	25686.8	50008.6	84816.1	136454.4
2.5°	2609.6	2550.8	2531.6	2710.7	3113.8	5894.1	14568.9	29461.2	57892.0	99406.5	162210.5
0°	2728.4	2606.1	2590.9	2766.1	3181.3	6228.7	15830.1	31737.4	61641.6	105649.5	174883.0
-2.5°	2822.7	2677.0	2648.0	2804.2	3211.0	6064.7	15702.2	31659.0	60111.8	103562.9	166835.4
-5°	2905.0	2758.9	2718.7	2863.9	3276.4	6058.6	14870.3	29048.9	53789.1	91002.5	140602.1
-7.5°	2978.2	2851.9	2792.4	2908.0	3285.0	5425.7	12027.6	23916.4	42995.0	71049.7	108824.5
-10°	3055.4	2958.4	2877.4	2954.7	3248.4	4317.0	8046.4	17239.9	30619.2	51524.4	77444.9
-12.5°	3143.6	3094.8	2975.7	2986.9	3199.0	3642.9	5947.1	12036.0	21257.8	32457.0	51245.9
-15°	3218.5	3216.3	3116.6	3084.9	3190.3	3475.0	4149.1	6683.9	12894.9	20864.0	30158.5
-17.5°	3234.1	3313.8	3275.6	3178.7	3184.9	3344.5	3622.4	4429.3	6477.2	11479.9	17010.0
-20°	3244.2	3414.3	3418.3	3339.7	3270.7	3252.9	3379.9	3615.3	4072.9	5763.5	7988.7



REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3259.5	3421.2	3536.3	3514.5	3379.2	3300.1	3271.7	3360.8	3515.7	3733.8	4455.8
-25°	3266.8	3417.8	3582.4	3627.6	3570.8	3426.0	3317.7	3257.2	3312.0	3381.3	3522.5
-27.5°	3235.7	3412.4	3572.0	3705.9	3722.1	3627.4	3468.2	3339.0	3288.8	3241.3	3299.4
-30°	3183.9	3381.3	3548.2	3712.9	3778.7	3748.4	3665.0	3560.2	3437.8	3342.6	3309.2
-32.5°	2760.0	3334.7	3505.7	3648.4	3757.1	3788.1	3789.0	3732.8	3680.5	3607.1	3521.2
-35°	2273.9	2911.4	3467.8	3539.7	3639.3	3742.1	3818.5	3821.1	3815.0	3780.2	3744.0
-37.5°	1767.7	2361.8	2896.9	3325.2	3475.8	3596.8	3727.6	3816.0	3871.6	3861.5	3854.8
-40°	1538.9	1726.2	2226.8	2663.4	3029.7	3374.4	3516.1	3674.9	3802.6	3847.1	3877.1
-42.5°	1468.3	1548.4	1629.9	1960.8	2338.1	2670.1	2982.3	3280.0	3545.8	3696.4	3801.2
-45°	1429.6	1474.1	1524.0	1597.7	1661.4	1936.3	2216.0	2487.7	2819.3	3124.6	3389.3
-47.5°	1393.7	1428.6	1467.2	1505.1	1540.4	1590.4	1633.6	1710.8	1959.2	2209.6	2460.9
-50°	1336.0	1393.6	1425.6	1453.9	1478.9	1502.1	1522.1	1557.0	1598.2	1634.2	1670.5
-52.5°	1239.5	1304.4	1366.0	1412.6	1432.2	1451.4	1471.1	1497.6	1522.0	1544.3	1561.5
-55°	1131.3	1197.0	1259.1	1306.4	1348.8	1387.8	1422.6	1446.0	1468.9	1490.8	1507.5
-57.5°	1012.4	1079.3	1140.0	1185.3	1227.8	1267.2	1305.5	1342.3	1376.0	1406.4	1432.2
-60°	891.9	948.4	1003.3	1051.2	1094.9	1134.4	1172.3	1208.5	1241.7	1271.5	1297.4
-62.5°	778.9	831.2	874.5	913.8	951.4	987.8	1026.1	1061.4	1093.5	1122.8	1149.6
-65°	676.9	721.9	754.8	785.5	814.5	845.8	879.5	910.6	938.9	965.2	989.4
-67.5°	571.9	611.0	639.8	666.4	691.2	716.1	743.0	768.2	791.3	813.4	834.2
-70°	480.9	508.1	528.2	548.6	570.6	593.0	616.2	637.4	656.4	674.5	691.2
-72.5°	410.9	427.6	441.7	459.1	474.8	491.5	508.8	524.7	539.3	553.5	566.8
-75°	363.5	375.8	387.2	398.0	408.0	420.0	432.4	444.2	455.2	465.6	475.4
-77.5°	330.4	340.0	347.9	355.4	362.5	371.8	381.5	391.0	400.2	408.1	415.3
-80°	298.2	305.9	312.7	319.2	325.5	333.5	341.6	349.6	357.3	364.4	371.1
-82.5°	264.8	271.1	276.8	282.4	287.8	294.6	301.3	307.8	314.2	320.0	325.6
-85°	231.6	236.4	240.9	245.3	249.5	255.0	260.5	265.9	271.1	274.9	278.6
-87.5°	201.4	205.0	208.4	211.7	215.0	219.0	223.0	227.0	230.9	233.4	235.9
-90°	1.8	1.6	1.4	1.1	0.9	0.9	0.9	0.9	0.9	0.9	0.9



REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	208.5	210.3	209.9	209.4	209.9	210.3	208.5	206.7	204.9	203.1	200.2
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	2.0	1.8	1.8	1.8	1.8	1.8	2.0	2.2	2.4	2.5	2.6
72.5°	6.3	6.2	6.3	6.3	6.3	6.2	6.3	6.3	6.3	6.2	6.2
70°	10.0	10.6	10.8	10.8	10.8	10.6	10.0	9.4	8.9	8.7	8.9
67.5°	7.4	7.3	6.8	6.3	6.8	7.3	7.4	7.6	7.7	8.1	8.9
65°	4.7	4.6	4.5	4.5	4.5	4.6	4.7	4.9	5.2	5.8	6.8
62.5°	3.4	3.6	3.6	3.6	3.6	3.6	3.4	3.3	3.3	3.6	4.1
60°	2.5	2.7	2.7	2.7	2.7	2.7	2.5	2.3	2.1	2.3	2.5
57.5°	2.4	2.6	2.7	2.7	2.7	2.6	2.4	2.1	1.8	2.5	2.9
55°	6.9	7.0	6.8	6.3	6.8	7.0	6.9	6.4	5.9	7.5	7.8
52.5°	32.8	30.3	26.4	21.6	26.4	30.3	32.8	33.3	32.6	33.4	29.1
50°	114.0	117.1	114.4	106.0	114.4	117.1	114.0	107.8	104.5	104.8	94.4
47.5°	234.9	237.4	229.3	210.3	229.3	237.4	234.9	226.0	224.3	226.8	220.7
45°	491.8	488.0	445.7	357.7	445.7	488.0	491.8	476.2	455.4	419.8	369.7
42.5°	848.1	885.8	908.1	908.6	908.1	885.8	848.1	803.1	801.2	771.3	712.3
40°	1097.7	1053.4	1005.0	997.5	1005.0	1053.4	1097.7	1106.7	1112.3	1149.6	1115.7
37.5°	1239.1	1248.4	1243.1	1138.6	1243.1	1248.4	1239.1	1246.7	1249.9	1256.1	1249.3
35°	1284.1	1354.3	1426.6	1441.5	1426.6	1354.3	1284.1	1263.6	1272.5	1276.7	1284.7
32.5°	1305.9	1330.0	1336.5	1339.0	1336.5	1330.0	1305.9	1289.9	1286.3	1296.8	1314.2
30°	1424.8	1440.5	1438.2	1435.2	1438.2	1440.5	1424.8	1398.3	1340.9	1338.4	1355.0
27.5°	1641.2	1667.2	1678.9	1686.8	1678.9	1667.2	1641.2	1614.7	1558.5	1495.4	1426.4
25°	1951.0	1990.8	2018.1	2030.1	2018.1	1990.8	1951.0	1901.5	1810.9	1717.0	1626.8
22.5°	3159.4	3435.1	3707.9	3849.0	3707.9	3435.1	3159.4	2621.3	2155.5	1992.3	1869.1
20°	7887.1	9078.3	9622.4	9781.1	9622.4	9078.3	7887.1	5288.9	3777.3	2539.4	2194.9
17.5°	18367.3	22882.8	25903.0	23256.7	25903.0	22882.8	18367.3	12803.8	8674.1	4610.9	2984.8
15°	37593.7	49029.8	55429.0	51828.1	55429.0	49029.8	37593.7	25806.4	17207.5	10387.3	5120.1
12.5°	67733.1	85580.8	97567.9	93615.0	97567.9	85580.8	67733.1	48007.5	27820.2	18104.0	10047.0
10°	106610.5	142499.3	166396.3	172303.9	166396.3	142499.3	106610.5	73846.4	48713.8	26982.3	15062.7
7.5°	154712.2	199147.5	234222.4	239651.1	234222.4	199147.5	154712.2	107430.5	67330.8	38109.5	20831.9
5°	201769.8	254220.0	290714.8	300189.1	290714.8	254220.0	201769.8	136454.4	84816.1	50008.6	25686.8
2.5°	230977.2	288065.0	332024.9	351388.2	332024.9	288065.0	230977.2	162210.5	99406.5	57892.0	29461.2
0°	241402.2	301023.1	348719.6	376495.2	348719.6	301023.1	241402.2	174883.0	105649.5	61641.6	31737.4
-2.5°	233319.6	287311.9	327576.2	346884.9	327576.2	287311.9	233319.6	166835.4	103562.9	60111.8	31659.0
-5°	198722.3	252367.6	285127.4	300855.9	285127.4	252367.6	198722.3	140602.1	91002.5	53789.1	29048.9
-7.5°	155283.8	198220.3	226509.1	240818.4	226509.1	198220.3	155283.8	108824.5	71049.7	42995.0	23916.4
-10°	108652.1	142716.6	161785.4	173461.3	161785.4	142716.6	108652.1	77444.9	51524.4	30619.2	17239.9
-12.5°	70694.4	90521.9	101201.8	108682.5	101201.8	90521.9	70694.4	51245.9	32457.0	21257.8	12036.0
-15°	42915.7	52578.8	58377.2	62011.8	58377.2	52578.8	42915.7	30158.5	20864.0	12894.9	6683.9
-17.5°	23953.0	28103.4	31042.3	32668.5	31042.3	28103.4	23953.0	17010.0	11479.9	6477.2	4429.3
-20°	11885.5	14511.1	16235.7	16959.7	16235.7	14511.1	11885.5	7988.7	5763.5	4072.9	3615.3



REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5485.2	6186.6	6650.9	6872.1	6650.9	6186.6	5485.2	4455.8	3733.8	3515.7	3360.8
-25°	3659.7	3769.8	3850.7	3885.9	3850.7	3769.8	3659.7	3522.5	3381.3	3312.0	3257.2
-27.5°	3352.1	3410.4	3458.8	3477.9	3458.8	3410.4	3352.1	3299.4	3241.3	3288.8	3339.0
-30°	3283.6	3286.1	3299.8	3299.9	3299.8	3286.1	3283.6	3309.2	3342.6	3437.8	3560.2
-32.5°	3456.1	3418.3	3401.7	3419.4	3401.7	3418.3	3456.1	3521.2	3607.1	3680.5	3732.8
-35°	3719.8	3709.6	3710.4	3729.5	3710.4	3709.6	3719.8	3744.0	3780.2	3815.0	3821.1
-37.5°	3856.6	3864.6	3873.7	3876.0	3873.7	3864.6	3856.6	3854.8	3861.5	3871.6	3816.0
-40°	3894.5	3910.3	3922.1	3926.3	3922.1	3910.3	3894.5	3877.1	3847.1	3802.6	3674.9
-42.5°	3847.5	3878.8	3895.3	3899.3	3895.3	3878.8	3847.5	3801.2	3696.4	3545.8	3280.0
-45°	3581.5	3721.0	3799.9	3821.1	3799.9	3721.0	3581.5	3389.3	3124.6	2819.3	2487.7
-47.5°	2705.4	2924.3	3076.7	3147.1	3076.7	2924.3	2705.4	2460.9	2209.6	1959.2	1710.8
-50°	1708.6	1744.7	1771.7	1788.4	1771.7	1744.7	1708.6	1670.5	1634.2	1598.2	1557.0
-52.5°	1576.3	1589.5	1597.3	1600.5	1597.3	1589.5	1576.3	1561.5	1544.3	1522.0	1497.6
-55°	1521.8	1534.1	1539.4	1540.3	1539.4	1534.1	1521.8	1507.5	1490.8	1468.9	1446.0
-57.5°	1454.6	1473.2	1481.5	1482.8	1481.5	1473.2	1454.6	1432.2	1406.4	1376.0	1342.3
-60°	1319.4	1337.5	1346.4	1349.8	1346.4	1337.5	1319.4	1297.4	1271.5	1241.7	1208.5
-62.5°	1172.9	1192.6	1198.6	1197.9	1198.6	1192.6	1172.9	1149.6	1122.8	1093.5	1061.4
-65°	1010.6	1028.7	1033.9	1033.5	1033.9	1028.7	1010.6	989.4	965.2	938.9	910.6
-67.5°	852.5	868.4	873.9	875.3	873.9	868.4	852.5	834.2	813.4	791.3	768.2
-70°	705.8	718.4	721.5	721.6	721.5	718.4	705.8	691.2	674.5	656.4	637.4
-72.5°	578.9	589.7	591.6	591.3	591.6	589.7	578.9	566.8	553.5	539.3	524.7
-75°	484.6	493.2	493.5	492.5	493.5	493.2	484.6	475.4	465.6	455.2	444.2
-77.5°	422.1	428.5	429.8	430.5	429.8	428.5	422.1	415.3	408.1	400.2	391.0
-80°	377.6	383.7	383.5	382.8	383.5	383.7	377.6	371.1	364.4	357.3	349.6
-82.5°	331.1	336.3	336.4	336.1	336.4	336.3	331.1	325.6	320.0	314.2	307.8
-85°	282.1	285.4	285.3	284.9	285.3	285.4	282.1	278.6	274.9	271.1	265.9
-87.5°	238.3	240.7	240.8	240.8	240.8	240.7	238.3	235.9	233.4	230.9	227.0
-90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	197.3	194.3	191.4	188.0	184.7	181.3	177.9	173.0	168.1	163.1	158.2
87.5°	1.3	1.5	1.7	1.7	1.7	1.8	1.8	2.0	2.3	2.5	2.7
85°	1.4	1.6	1.8	1.8	1.8	1.8	1.8	2.0	2.3	2.5	2.7
82.5°	1.7	1.8	1.8	2.0	2.1	2.2	2.2	2.3	2.4	2.5	2.7
80°	1.8	1.8	1.8	2.1	2.3	2.5	2.7	2.7	2.7	2.7	2.7
77.5°	1.8	1.8	1.8	2.1	2.3	2.5	2.8	3.0	3.1	3.2	3.2
75°	2.7	2.7	2.7	2.8	2.8	2.7	2.8	3.0	3.2	3.5	3.6
72.5°	6.1	5.8	5.7	5.7	5.5	5.5	5.4	4.9	4.4	3.9	3.7
70°	9.2	9.4	10.0	10.6	10.7	10.5	10.1	9.2	7.7	6.6	5.9
67.5°	9.6	10.4	11.6	13.0	13.8	14.3	15.4	16.0	15.3	13.6	10.5
65°	7.9	9.1	10.5	11.6	13.1	15.1	19.1	21.3	21.9	21.2	17.7
62.5°	4.9	5.9	7.2	8.6	10.2	12.9	18.2	22.5	26.1	27.2	23.4
60°	2.7	2.9	4.3	5.8	7.1	10.1	15.5	21.2	27.3	28.0	26.8
57.5°	2.9	3.4	4.7	5.4	5.5	9.1	13.9	18.4	24.0	27.3	27.4
55°	6.5	7.6	9.1	9.3	9.1	13.0	15.4	18.2	23.3	26.5	28.6
52.5°	21.3	27.2	27.4	20.1	21.7	26.6	23.2	24.8	29.2	33.4	33.6
50°	84.2	86.1	77.5	63.2	69.0	61.5	54.5	45.7	51.9	53.2	45.9
47.5°	208.8	191.8	170.9	154.5	150.6	148.5	129.0	105.1	112.1	90.1	79.4
45°	354.8	329.2	295.6	267.6	245.3	235.3	230.9	215.8	201.6	182.0	127.7
42.5°	665.8	545.7	446.5	403.3	344.4	319.7	306.0	303.6	296.9	284.5	243.2
40°	1042.3	1032.0	858.6	625.6	518.2	416.1	381.3	366.3	366.2	364.0	341.5
37.5°	1239.9	1214.1	1167.0	1058.5	810.5	635.1	505.8	435.4	417.7	416.8	401.2
35°	1285.6	1279.6	1278.0	1229.0	1148.1	976.0	751.1	565.9	479.9	460.4	451.8
32.5°	1319.4	1330.7	1336.6	1326.3	1332.6	1327.3	1112.9	825.6	573.3	515.3	494.5
30°	1368.4	1384.6	1392.2	1416.8	1465.9	1487.1	1485.9	1149.3	799.7	573.3	540.8
27.5°	1432.1	1445.2	1461.3	1543.7	1586.1	1615.7	1633.9	1536.5	1050.7	733.1	594.8
25°	1561.9	1520.7	1614.5	1699.2	1736.2	1752.5	1799.5	1755.7	1424.2	920.7	650.9
22.5°	1762.4	1705.8	1746.2	1884.5	1898.3	1908.8	1942.7	1953.2	1797.3	1192.0	814.6
20°	2008.8	1903.6	1893.7	1966.2	2035.2	2047.2	2083.9	2100.9	1956.5	1523.6	1000.0
17.5°	2331.2	2120.8	2020.0	2043.0	2123.5	2164.5	2202.5	2214.1	2113.6	1822.1	1186.5
15°	2893.2	2372.2	2184.3	2140.6	2193.5	2263.2	2313.0	2350.0	2254.6	2015.7	1434.5
12.5°	4702.6	2659.3	2342.9	2210.0	2237.4	2335.0	2411.3	2457.0	2365.6	2145.3	1679.7
10°	6767.2	3403.6	2554.2	2343.0	2295.7	2380.8	2479.6	2510.3	2440.7	2252.3	1886.6
7.5°	10187.2	4371.0	2753.7	2471.6	2370.0	2419.6	2509.0	2547.2	2504.3	2336.7	2057.4
5°	12646.8	5159.2	2945.8	2598.9	2452.9	2480.6	2542.3	2585.3	2557.4	2402.1	2194.0
2.5°	14568.9	5894.1	3113.8	2710.7	2531.6	2550.8	2609.6	2624.8	2580.7	2410.4	2249.4
0°	15830.1	6228.7	3181.3	2766.1	2590.9	2606.1	2728.4	2666.4	2587.3	2400.3	2278.1
-2.5°	15702.2	6064.7	3211.0	2804.2	2648.0	2677.0	2822.7	2825.8	2646.8	2425.6	2300.3
-5°	14870.3	6058.6	3276.4	2863.9	2718.7	2758.9	2905.0	2924.0	2699.4	2460.1	2293.9
-7.5°	12027.6	5425.7	3285.0	2908.0	2792.4	2851.9	2978.2	2963.8	2761.9	2560.4	2321.5
-10°	8046.4	4317.0	3248.4	2954.7	2877.4	2958.4	3055.4	3002.0	2824.6	2654.1	2309.9
-12.5°	5947.1	3642.9	3199.0	2986.9	2975.7	3094.8	3143.6	3039.5	2892.2	2740.9	2254.8
-15°	4149.1	3475.0	3190.3	3084.9	3116.6	3216.3	3218.5	3063.4	2928.9	2798.9	2152.7
-17.5°	3622.4	3344.5	3184.9	3178.7	3275.6	3313.8	3234.1	3085.6	2943.3	2707.8	1963.4
-20°	3379.9	3252.9	3270.7	3339.7	3418.3	3414.3	3244.2	3101.5	2932.5	2458.9	1745.9





REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3271.7	3300.1	3379.2	3514.5	3536.3	3421.2	3259.5	3102.8	2895.9	2165.3	1520.4
-25°	3317.7	3426.0	3570.8	3627.6	3582.4	3417.8	3266.8	3071.7	2580.0	1874.6	1323.4
-27.5°	3468.2	3627.4	3722.1	3705.9	3572.0	3412.4	3235.7	2953.6	2215.1	1618.2	1314.0
-30°	3665.0	3748.4	3778.7	3712.9	3548.2	3381.3	3183.9	2522.5	1885.9	1404.7	1292.4
-32.5°	3789.0	3788.1	3757.1	3648.4	3505.7	3334.7	2760.0	2090.4	1546.6	1373.7	1277.1
-35°	3818.5	3742.1	3639.3	3539.7	3467.8	2911.4	2273.9	1695.5	1447.2	1342.0	1262.9
-37.5°	3727.6	3596.8	3475.8	3325.2	2896.9	2361.8	1767.7	1500.8	1397.5	1323.5	1251.0
-40°	3516.1	3374.4	3029.7	2663.4	2226.8	1726.2	1538.9	1436.7	1369.7	1305.6	1239.0
-42.5°	2982.3	2670.1	2338.1	1960.8	1629.9	1548.4	1468.3	1404.2	1343.2	1285.8	1192.2
-45°	2216.0	1936.3	1661.4	1597.7	1524.0	1474.1	1429.6	1375.3	1320.8	1231.4	1131.4
-47.5°	1633.6	1590.4	1540.4	1505.1	1467.2	1428.6	1393.7	1347.7	1254.8	1159.7	1056.7
-50°	1522.1	1502.1	1478.9	1453.9	1425.6	1393.6	1336.0	1264.6	1173.2	1076.5	977.7
-52.5°	1471.1	1451.4	1432.2	1412.6	1366.0	1304.4	1239.5	1166.4	1081.5	987.4	892.8
-55°	1422.6	1387.8	1348.8	1306.4	1259.1	1197.0	1131.3	1060.0	980.7	892.1	807.6
-57.5°	1305.5	1267.2	1227.8	1185.3	1140.0	1079.3	1012.4	943.9	875.1	796.5	721.3
-60°	1172.3	1134.4	1094.9	1051.2	1003.3	948.4	891.9	831.1	766.1	706.1	645.4
-62.5°	1026.1	987.8	951.4	913.8	874.5	831.2	778.9	727.7	675.7	621.9	565.9
-65°	879.5	845.8	814.5	785.5	754.8	721.9	676.9	630.4	582.8	534.2	484.7
-67.5°	743.0	716.1	691.2	666.4	639.8	611.0	571.9	530.3	492.8	456.4	417.9
-70°	616.2	593.0	570.6	548.6	528.2	508.1	480.9	449.8	417.6	390.8	366.0
-72.5°	508.8	491.5	474.8	459.1	441.7	427.6	410.9	390.2	368.9	347.1	326.9
-75°	432.4	420.0	408.0	398.0	387.2	375.8	363.5	348.1	332.8	317.6	302.3
-77.5°	381.5	371.8	362.5	355.4	347.9	340.0	330.4	317.2	304.0	290.7	277.2
-80°	341.6	333.5	325.5	319.2	312.7	305.9	298.2	286.7	275.1	263.4	251.5
-82.5°	301.3	294.6	287.8	282.4	276.8	271.1	264.8	254.9	245.0	235.0	225.0
-85°	260.5	255.0	249.5	245.3	240.9	236.4	231.6	223.5	215.3	207.0	198.7
-87.5°	223.0	219.0	215.0	211.7	208.4	205.0	201.4	195.0	188.6	182.2	175.9
-90°	0.9	0.9	0.9	1.1	1.4	1.6	1.8	2.0	2.3	2.5	2.7





REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	152.4	146.5	140.7	134.8	126.9	119.1	111.2	103.3	95.0	86.7	78.4
87.5°	2.7	2.7	2.7	2.7	2.9	3.2	3.4	3.6	3.6	3.6	3.6
85°	2.7	2.7	2.7	2.7	2.9	3.2	3.4	3.6	3.6	3.6	3.6
82.5°	2.7	2.7	2.7	2.7	2.9	3.2	3.4	3.6	3.7	3.6	3.6
80°	2.9	3.0	3.0	3.0	3.1	3.2	3.4	3.6	3.9	3.9	3.9
77.5°	3.2	3.3	3.4	3.5	3.6	3.6	3.7	3.8	4.1	4.3	4.3
75°	3.6	3.5	3.5	3.8	4.0	4.1	4.1	4.3	4.7	4.7	4.7
72.5°	3.8	3.9	3.8	3.9	4.4	4.7	4.7	4.9	5.4	5.6	5.3
70°	5.2	4.5	4.3	4.8	5.2	5.3	5.4	5.9	6.2	6.5	6.3
67.5°	7.6	6.8	5.9	5.9	6.4	6.6	6.4	7.1	7.7	7.4	7.3
65°	13.9	10.6	8.1	8.7	8.5	8.1	8.0	8.7	9.2	9.1	8.3
62.5°	19.6	15.8	13.3	12.4	11.7	10.9	9.9	11.1	11.1	10.9	9.9
60°	24.7	20.6	19.2	18.5	16.4	14.3	13.7	13.6	13.7	12.7	11.7
57.5°	26.1	24.5	26.1	25.4	23.0	19.5	18.4	18.0	16.5	15.3	13.7
55°	27.3	27.7	33.6	33.7	30.6	26.3	25.0	23.6	20.0	18.1	16.2
52.5°	31.6	36.0	42.1	43.3	39.9	35.2	34.4	29.7	26.0	21.1	19.6
50°	41.8	50.0	55.0	55.3	50.5	48.8	44.8	39.4	32.5	25.1	23.4
47.5°	70.6	77.6	73.3	70.7	64.9	64.7	59.5	50.3	39.3	31.3	27.4
45°	128.2	121.6	105.3	91.8	86.4	85.7	77.2	61.8	49.8	39.1	31.7
42.5°	198.4	184.3	159.5	115.8	116.3	110.4	96.7	79.0	61.0	47.2	37.8
40°	293.6	258.2	223.9	178.7	150.6	138.0	121.4	98.3	72.8	56.7	45.1
37.5°	380.6	336.6	298.5	240.9	192.9	172.6	148.5	118.9	88.0	68.6	52.6
35°	433.2	407.7	364.6	301.1	247.6	210.0	177.5	142.1	107.0	80.8	60.3
32.5°	478.5	463.2	419.2	358.6	299.1	250.0	210.9	166.3	125.8	93.1	68.0
30°	520.6	504.5	473.5	412.1	348.0	295.0	244.4	189.4	144.0	105.6	76.5
27.5°	564.6	546.1	524.5	461.8	395.0	337.2	272.9	211.5	161.9	119.3	86.8
25°	610.0	586.6	562.9	510.9	438.5	370.7	300.2	232.6	180.2	134.3	97.0
22.5°	661.5	625.7	601.1	559.5	477.9	404.6	327.5	255.9	198.1	148.7	107.0
20°	712.6	663.3	637.8	598.7	517.1	438.5	355.5	277.8	215.0	162.6	116.9
17.5°	781.1	703.1	666.9	626.4	554.0	471.1	383.0	298.4	230.8	175.7	126.5
15°	942.0	745.9	695.9	653.2	587.5	502.4	409.6	317.6	245.6	188.2	135.4
12.5°	1110.5	788.4	724.9	678.9	617.7	531.9	435.2	335.3	259.2	199.5	143.1
10°	1280.3	829.9	753.5	703.4	644.9	559.7	459.3	353.6	274.1	209.8	150.2
7.5°	1445.0	869.9	781.4	726.6	669.1	583.7	482.2	374.8	288.6	219.3	156.6
5°	1586.0	905.3	809.5	751.5	691.6	603.3	502.1	394.7	302.3	228.1	162.3
2.5°	1654.1	933.6	836.6	775.6	711.8	620.2	519.3	413.1	314.9	235.8	167.3
0°	1693.1	958.0	861.8	798.0	729.7	634.5	533.8	429.6	326.2	242.6	171.6
-2.5°	1690.3	981.1	885.9	821.6	755.2	653.9	545.7	438.8	334.9	250.5	177.5
-5°	1659.9	1001.0	908.0	843.4	777.7	670.2	555.1	445.9	342.1	257.3	182.6
-7.5°	1638.3	1023.6	929.7	864.0	796.7	683.0	561.8	450.9	347.8	262.7	186.9
-10°	1591.6	1046.0	951.6	883.2	808.2	691.4	566.3	453.8	352.0	266.8	190.3
-12.5°	1509.2	1063.6	970.6	899.9	815.6	696.2	571.4	456.9	354.8	269.5	192.8
-15°	1389.6	1076.2	986.7	914.0	819.6	697.8	573.6	458.7	357.3	271.0	194.3
-17.5°	1231.6	1083.4	999.6	925.2	819.9	696.2	572.6	457.9	358.0	271.5	195.4
-20°	1206.2	1092.4	1009.3	933.5	816.7	691.6	568.4	454.7	357.0	270.5	196.0



REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1207.4	1103.9	1020.1	928.9	809.1	683.9	561.0	448.8	354.0	268.1	195.5
-25°	1203.8	1111.7	1029.6	923.9	797.3	673.1	551.4	440.4	349.2	264.2	193.8
-27.5°	1204.6	1116.7	1037.2	914.4	785.8	658.5	539.7	433.2	342.9	258.8	191.1
-30°	1204.9	1122.1	1026.5	899.5	769.6	642.1	525.1	424.0	335.4	253.8	187.2
-32.5°	1197.9	1125.8	1006.7	877.6	748.4	622.2	508.6	412.6	326.2	248.5	185.1
-35°	1192.0	1104.2	981.5	850.5	722.4	601.8	491.9	399.1	315.2	241.7	183.1
-37.5°	1181.0	1065.6	946.6	818.0	692.0	577.9	475.7	385.1	302.6	233.6	180.3
-40°	1134.3	1019.9	901.1	780.2	661.0	550.6	456.6	369.1	290.9	224.1	176.7
-42.5°	1082.2	966.0	850.7	736.5	627.5	526.2	434.7	350.5	278.3	217.2	172.3
-45°	1019.1	907.2	795.7	692.0	591.6	498.8	411.1	330.1	264.0	211.2	168.5
-47.5°	951.2	843.3	740.7	644.1	557.3	468.5	384.6	312.0	248.1	204.3	166.1
-50°	877.7	778.6	684.8	598.5	517.5	435.6	357.0	292.1	238.4	196.0	163.1
-52.5°	802.3	714.1	630.6	552.2	475.1	399.5	332.4	271.3	227.5	189.9	159.7
-55°	726.1	652.4	577.2	502.7	430.1	367.0	305.8	257.3	215.5	184.7	155.8
-57.5°	655.7	590.8	520.1	450.3	388.7	333.3	284.3	242.1	207.4	179.0	152.4
-60°	584.7	523.6	459.8	402.5	349.0	304.0	265.4	228.3	200.2	173.0	148.4
-62.5°	509.9	456.1	407.1	356.3	315.8	280.5	246.9	219.4	192.4	167.5	143.8
-65°	441.7	398.2	355.5	322.4	289.3	259.2	235.8	209.8	185.1	161.6	138.8
-67.5°	378.9	351.1	323.1	292.7	268.3	245.9	223.8	200.7	177.7	155.2	133.4
-70°	340.7	315.3	294.5	274.1	252.9	232.2	212.5	191.5	169.7	148.3	127.7
-72.5°	309.6	292.4	275.2	256.7	237.7	219.1	200.9	181.7	160.9	140.9	121.6
-75°	286.6	271.1	255.9	239.9	222.6	205.6	188.5	170.9	151.7	133.1	115.2
-77.5°	263.5	249.9	236.5	222.4	206.4	190.7	175.3	159.6	142.0	124.9	108.4
-80°	239.5	227.6	215.7	203.5	189.4	175.4	161.6	147.6	131.7	116.3	101.4
-82.5°	214.8	204.7	194.5	184.1	171.6	159.4	147.3	135.1	121.1	107.4	94.8
-85°	190.1	181.4	172.8	164.0	153.5	143.0	133.3	123.5	111.9	100.6	89.5
-87.5°	169.1	162.3	155.5	148.7	139.9	131.1	122.3	113.5	103.5	93.7	84.0
-90°	2.7	2.7	2.7	2.7	2.9	3.2	3.4	3.6	3.6	3.6	3.6



REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	70.1	58.4	46.7	35.1	23.4	14.4	5.4
87.5°	3.6	3.7	3.8	3.8	3.8	4.7	5.4
85°	3.6	3.8	3.9	4.0	3.9	4.8	5.4
82.5°	3.6	3.9	4.1	4.1	4.1	5.0	5.4
80°	3.7	4.0	4.2	4.3	4.3	5.1	5.4
77.5°	4.2	4.3	4.4	4.5	4.5	5.3	5.4
75°	4.7	4.9	4.7	4.7	4.7	5.5	5.4
72.5°	5.3	5.6	5.3	4.9	4.9	5.6	5.4
70°	6.0	6.3	6.0	5.1	5.1	5.8	5.4
67.5°	7.2	6.9	6.7	5.7	5.3	6.0	5.4
65°	8.4	8.0	7.4	6.3	5.6	6.2	5.4
62.5°	9.7	9.3	8.1	6.9	5.8	6.4	5.4
60°	11.1	10.6	8.8	7.5	6.1	6.5	5.4
57.5°	13.3	12.1	10.0	8.2	6.7	6.7	5.4
55°	15.7	13.5	11.3	8.8	7.4	6.9	5.4
52.5°	18.3	15.2	12.6	9.4	8.0	7.1	5.4
50°	21.0	17.6	14.0	10.0	8.7	7.3	5.4
47.5°	23.9	20.0	15.3	10.7	9.4	7.5	5.4
45°	27.7	22.5	16.7	11.8	10.1	7.7	5.4
42.5°	31.7	25.1	18.1	12.8	10.8	7.9	5.4
40°	35.8	27.7	19.8	14.2	11.6	8.1	5.4
37.5°	40.0	30.4	21.9	15.8	12.3	8.3	5.4
35°	44.4	33.6	24.0	17.4	13.1	8.5	5.4
32.5°	49.4	37.1	26.0	19.1	13.9	8.7	5.4
30°	55.8	40.6	28.0	20.7	14.7	8.8	5.4
27.5°	62.0	44.1	30.9	22.4	15.5	9.0	5.4
25°	68.3	47.6	33.9	24.1	16.3	9.2	5.4
22.5°	74.4	51.3	36.9	25.8	17.1	9.4	5.4
20°	80.4	55.6	39.8	27.5	17.9	9.6	5.4
17.5°	86.4	59.7	42.6	29.1	18.6	9.8	5.4
15°	92.2	63.7	45.5	30.8	19.4	9.9	5.4
12.5°	97.7	67.5	48.2	32.4	20.1	10.1	5.4
10°	102.8	71.1	50.8	33.9	20.9	10.3	5.4
7.5°	107.6	74.5	53.4	35.4	21.6	10.4	5.4
5°	112.0	77.8	55.8	36.9	22.2	10.5	5.4
2.5°	115.9	80.8	58.1	38.2	22.8	10.7	5.4
0°	119.5	83.6	60.2	39.5	23.4	10.8	5.4
-2.5°	123.7	87.1	62.9	41.6	24.7	11.3	5.4
-5°	127.6	90.3	65.4	43.6	25.9	11.8	5.4
-7.5°	130.9	93.3	67.8	45.4	27.0	12.3	5.4
-10°	133.8	96.0	70.0	47.2	28.1	12.8	5.4
-12.5°	136.3	98.5	72.0	48.9	29.2	13.3	5.4
-15°	138.3	100.7	73.9	50.4	30.1	13.7	5.4
-17.5°	139.7	102.6	75.6	51.8	31.0	14.1	5.4
-20°	141.0	104.2	77.1	53.0	31.8	14.6	5.4



REPORT NUMBER: P731429 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-VHE

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	142.2	105.6	78.4	54.1	32.5	14.9	5.4
-25°	142.8	106.9	79.5	55.1	33.1	15.3	5.4
-27.5°	142.8	108.0	80.5	55.9	33.7	15.6	5.4
-30°	142.1	108.7	81.3	56.6	34.1	15.9	5.4
-32.5°	140.9	109.1	81.9	57.1	34.5	16.2	5.4
-35°	140.4	109.2	82.3	57.4	34.7	16.4	5.4
-37.5°	140.1	109.1	82.5	57.6	34.9	16.7	5.4
-40°	139.4	109.1	82.4	57.6	34.9	16.9	5.4
-42.5°	138.3	108.7	82.2	57.4	34.9	17.0	5.4
-45°	136.7	108.1	81.8	57.1	34.7	17.1	5.4
-47.5°	134.6	107.1	81.1	56.6	34.5	17.2	5.4
-50°	132.9	105.8	80.2	56.0	34.1	17.3	5.4
-52.5°	130.9	104.3	79.1	55.3	33.7	17.3	5.4
-55°	128.6	102.5	77.7	54.5	33.1	17.3	5.4
-57.5°	125.8	100.4	76.1	53.4	32.5	17.3	5.4
-60°	122.8	98.0	74.3	52.3	31.8	17.2	5.4
-62.5°	119.3	95.3	72.4	50.9	31.4	17.1	5.4
-65°	115.6	92.4	70.3	49.5	31.0	17.0	5.4
-67.5°	111.5	89.2	68.0	47.9	30.5	16.9	5.4
-70°	107.1	85.8	65.5	46.2	30.0	16.7	5.4
-72.5°	102.4	82.2	62.8	45.0	29.4	16.5	5.4
-75°	97.5	78.4	60.0	43.8	28.7	16.3	5.4
-77.5°	92.3	74.3	57.9	42.6	27.9	16.0	5.4
-80°	86.8	71.0	55.9	41.3	27.1	15.7	5.4
-82.5°	82.7	68.1	53.8	39.8	26.3	15.4	5.4
-85°	78.7	65.0	51.5	38.3	25.3	15.1	5.4
-87.5°	74.5	61.8	49.2	36.7	24.4	14.8	5.4
-90°	3.6	3.6	3.6	3.6	3.6	4.5	5.4

(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

