

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: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/29/2023

**Test Information**

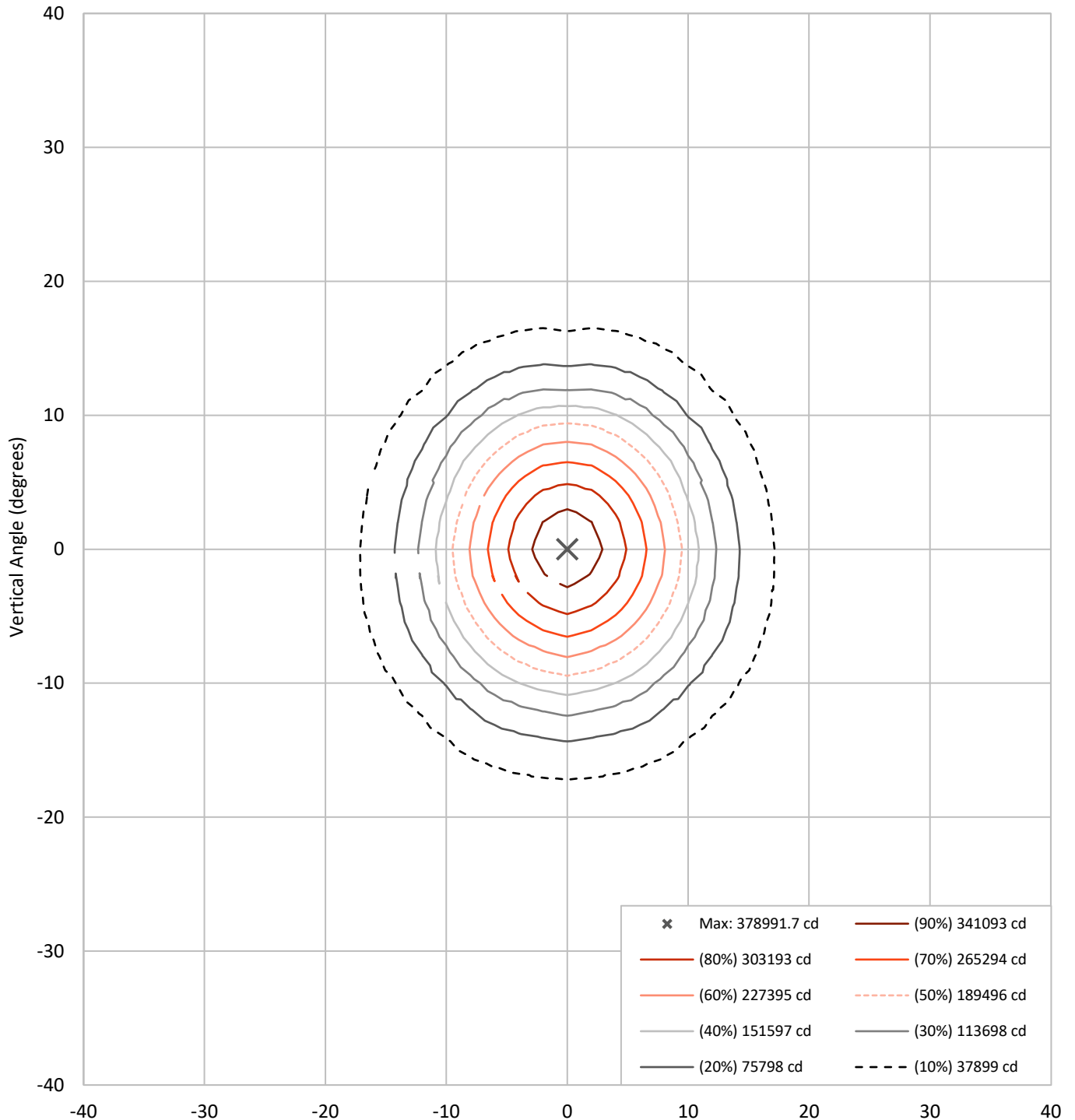
Test Method: LM-79-08  
Report Number: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320L-57-80-1S-VHE-S  
Description: EPHESUS LUMASPORT 8 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:	49954.7 lumens	Max Intensity:	378991.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	146.2 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:	22144.1 lumens	Field Lumens:	40332 lumens
Beam Efficiency:	44.3%	Field Efficiency:	80.7%
Input Watts (W):	341.6		
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: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

### Iso-Candela Plot





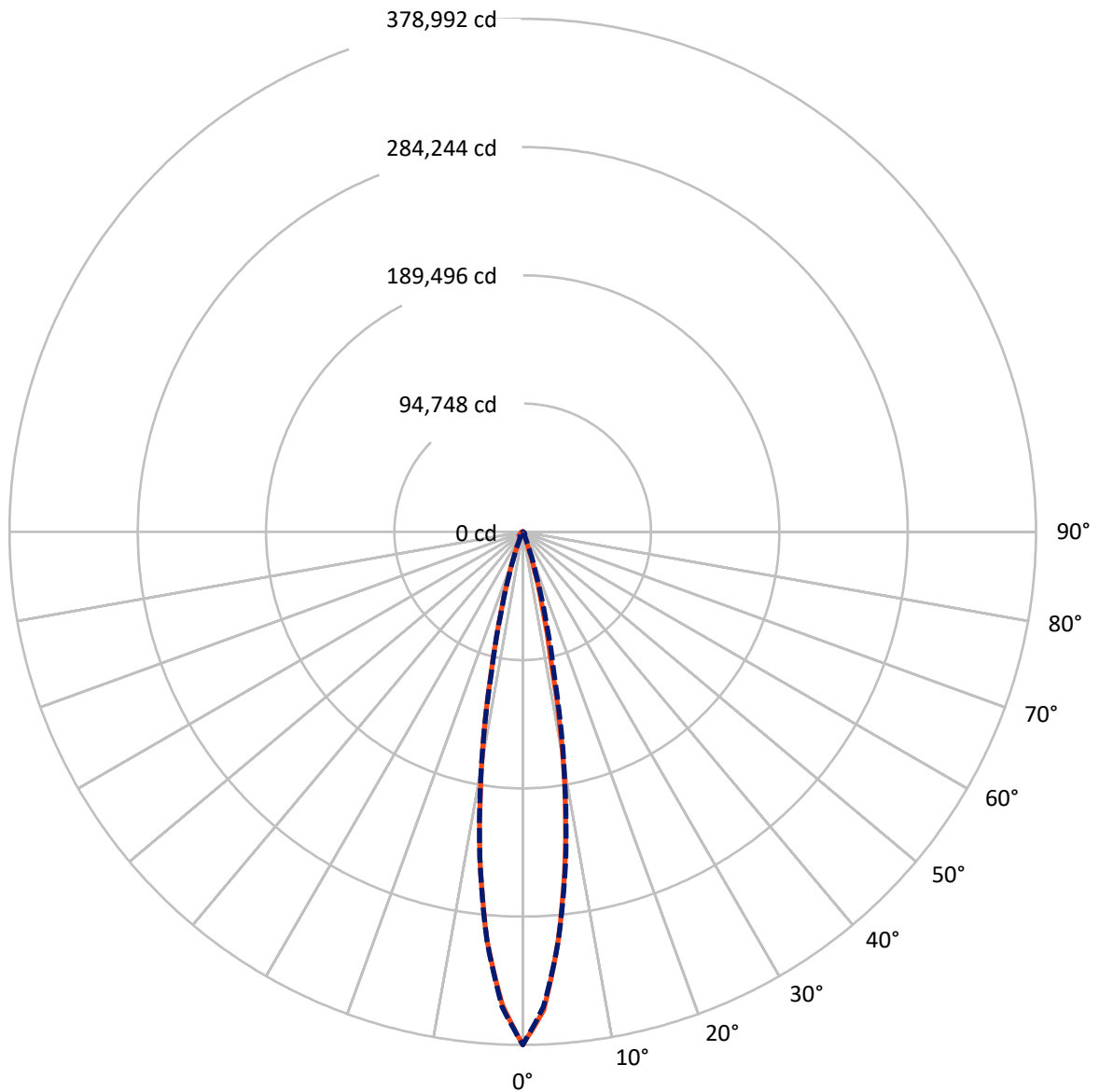
REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

### 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	0.5	0.6	0.7	0.6	0.6	0.3	0.2
60	0.7		0.9	1.9	3.6	5.6	9.7	14.8	16.4	16.4	14.8	9.7	5.6	3.6	1.9	0.9	0.7	0.2
50	0.7		1.9	5.4	9.7	20.4	33.4	37.4	39.3	39.3	37.4	33.4	20.4	9.7	5.4	1.9	0.7	0.2
40	1.6		3.2	8.8	18.1	43.0	45.6	55.3	91.6	91.6	55.3	45.6	43.0	18.1	8.8	3.2	1.6	0.2
30	1.6		4.4	11.3	32.2	57.0	67.2	418.6	1668.1	1668.1	418.6	67.2	57.0	32.2	11.3	4.4	1.6	0.2
20	2.4		5.4	13.3	42.6	63.5	125.4	1691.4	7036.9	7036.9	1691.4	125.4	63.5	42.6	13.3	5.4	2.4	0.2
10	2.4		6.0	14.9	45.5	70.6	140.2	1778.1	7003.0	7003.0	1778.1	140.2	70.6	45.5	14.9	6.0	2.4	0.2
0	2.8		6.2	15.9	44.9	78.3	96.4	493.7	1807.5	1807.5	493.7	96.4	78.3	44.9	15.9	6.2	2.8	0.2
-10	2.8		6.0	16.1	34.7	79.7	97.6	106.5	165.4	165.4	106.5	97.6	79.7	34.7	16.1	6.0	2.8	0.2
-20	2.7		5.4	15.0	27.7	58.4	98.1	110.3	111.5	111.5	110.3	98.1	58.4	27.7	15.0	5.4	2.7	0.2
-30	2.7		4.5	12.3	24.2	36.2	54.7	81.0	101.0	101.0	81.0	54.7	36.2	24.2	12.3	4.5	2.7	0.2
-40	2.3		3.5	9.0	17.7	28.1	36.7	42.7	46.7	46.7	42.7	36.7	28.1	17.7	9.0	3.5	2.3	0.2
-50	2.3		2.8	5.9	10.8	17.0	22.8	27.9	31.2	31.2	27.9	22.8	17.0	10.8	5.9	2.8	2.3	0.2
-60	1.5		10.5		25.2		39.5		47.2		39.5		25.2		10.5		1.5	0.2
-70	1.5		10.5		25.2		39.5		47.2		39.5		25.2		10.5		1.5	0.2
-80	1.5		10.5		25.2		39.5		47.2		39.5		25.2		10.5		1.5	0.2
-90	1.5		10.5		25.2		39.5		47.2		39.5		25.2		10.5		1.5	0.2

REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

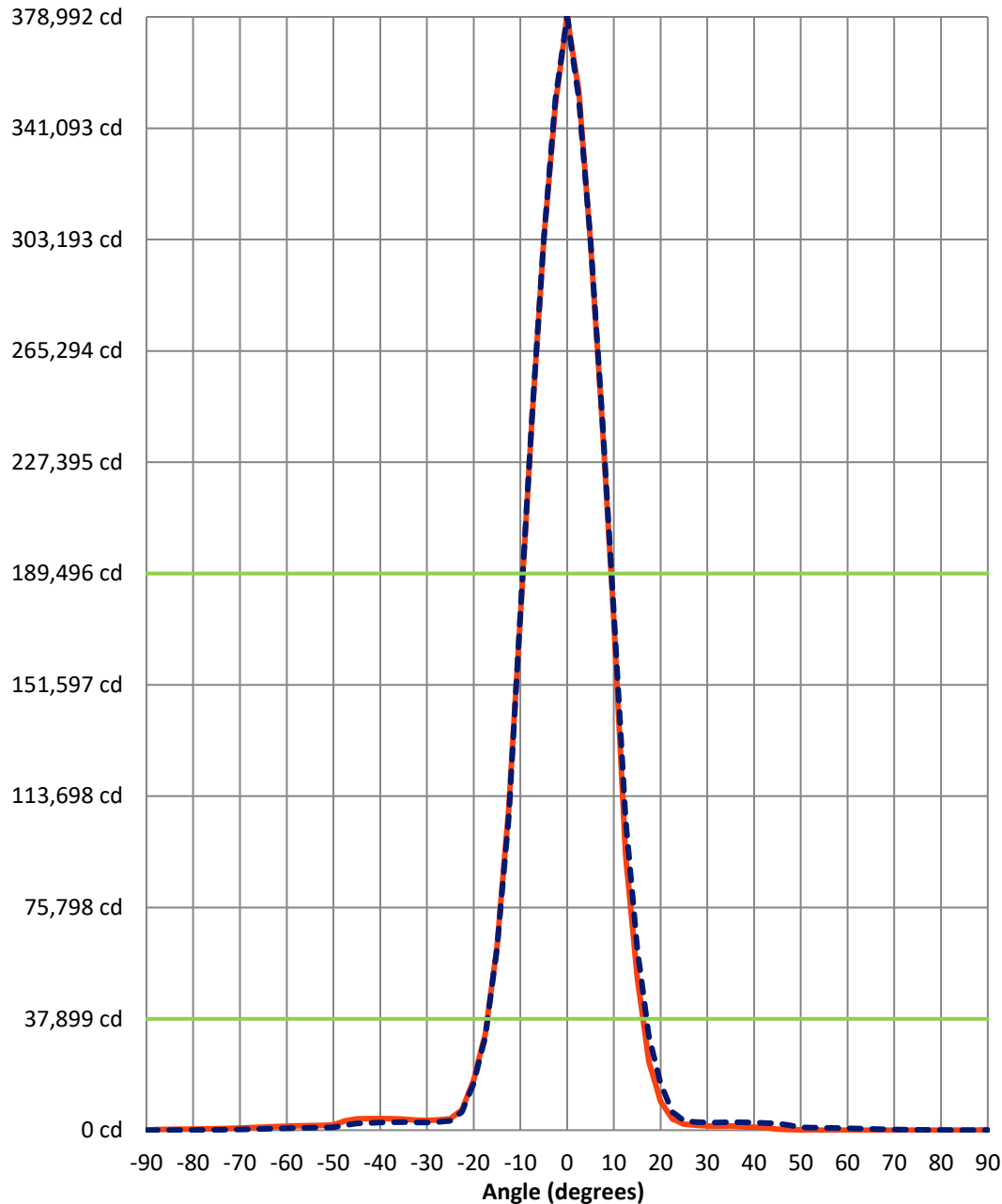
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

### Luminous Intensity Plot



**Beam:**  
 H Angle: 19°  
 V Angle: 18.9°  
 Lumens: 22144.1  
 Efficiency: 44.3%

**Field:**  
 H Angle: 34°  
 V Angle: 33.3°  
 Lumens: 40332  
 Efficiency: 80.7%

**Spill:**  
 Lumens: 9622.7  
 Efficiency: 19.3%

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



REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

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	23.5	35.3	47.0	58.8	70.6	79.0	87.3	95.7	104.0
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	5.2	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	4.8	4.7	4.7	4.7	4.3
72.5°	5.4	5.7	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	7.0	7.2	7.3	7.4	7.7	7.1
65°	5.4	6.2	5.6	6.4	7.4	8.0	8.4	8.3	9.1	9.3	8.8
62.5°	5.4	6.4	5.8	7.0	8.1	9.3	9.7	9.9	10.9	11.1	11.1
60°	5.4	6.6	6.1	7.6	8.8	10.7	11.2	11.8	12.8	13.8	13.7
57.5°	5.4	6.8	6.7	8.2	10.1	12.1	13.4	13.8	15.4	16.6	18.1
55°	5.4	6.9	7.4	8.8	11.4	13.6	15.8	16.3	18.2	20.1	23.7
52.5°	5.4	7.1	8.0	9.5	12.7	15.3	18.4	19.7	21.2	26.2	29.9
50°	5.4	7.3	8.7	10.1	14.0	17.7	21.1	23.5	25.2	32.7	39.7
47.5°	5.4	7.5	9.4	10.8	15.4	20.1	24.1	27.5	31.5	39.5	50.6
45°	5.4	7.7	10.1	11.9	16.8	22.7	27.9	31.9	39.3	50.2	62.2
42.5°	5.4	7.9	10.9	12.9	18.2	25.3	31.9	38.0	47.6	61.4	79.5
40°	5.4	8.1	11.6	14.3	19.9	27.9	36.0	45.4	57.1	73.2	99.0
37.5°	5.4	8.3	12.4	15.9	22.0	30.7	40.3	52.9	69.1	88.5	119.7
35°	5.4	8.5	13.2	17.5	24.1	33.9	44.7	60.7	81.3	107.8	143.1
32.5°	5.4	8.7	14.0	19.2	26.2	37.4	49.8	68.5	93.7	126.6	167.4
30°	5.4	8.9	14.8	20.9	28.2	40.9	56.1	77.0	106.3	145.0	190.7
27.5°	5.4	9.1	15.6	22.5	31.2	44.4	62.4	87.3	120.1	162.9	212.9
25°	5.4	9.3	16.4	24.2	34.2	47.9	68.7	97.6	135.2	181.4	234.2
22.5°	5.4	9.5	17.2	25.9	37.1	51.7	74.9	107.8	149.7	199.4	257.6
20°	5.4	9.7	18.0	27.6	40.1	56.0	80.9	117.7	163.6	216.4	279.7
17.5°	5.4	9.8	18.7	29.3	43.0	60.1	87.0	127.4	176.9	232.4	300.4
15°	5.4	10.0	19.5	31.0	45.8	64.1	92.8	136.3	189.4	247.2	319.7
12.5°	5.4	10.2	20.2	32.6	48.5	67.9	98.3	144.1	200.8	260.9	337.5
10°	5.4	10.3	21.0	34.2	51.2	71.6	103.5	151.2	211.2	275.9	355.9
7.5°	5.4	10.5	21.7	35.7	53.7	75.0	108.3	157.6	220.8	290.5	377.3
5°	5.4	10.6	22.3	37.1	56.2	78.2	112.7	163.4	229.6	304.3	397.3
2.5°	5.4	10.8	22.9	38.5	58.5	81.3	116.7	168.5	237.4	317.0	415.8
0°	5.4	10.9	23.5	39.8	60.6	84.1	120.3	172.8	244.2	328.4	432.4
-2.5°	5.4	11.4	24.8	41.9	63.3	87.6	124.6	178.7	252.2	337.2	441.7
-5°	5.4	11.9	26.0	43.9	65.9	90.9	128.4	183.8	259.0	344.4	448.8
-7.5°	5.4	12.4	27.2	45.8	68.2	93.9	131.8	188.1	264.4	350.2	453.9
-10°	5.4	12.9	28.3	47.6	70.5	96.6	134.7	191.6	268.6	354.3	456.8
-12.5°	5.4	13.4	29.3	49.2	72.5	99.1	137.2	194.1	271.2	357.1	459.9
-15°	5.4	13.8	30.3	50.7	74.4	101.3	139.2	195.6	272.8	359.7	461.7
-17.5°	5.4	14.3	31.2	52.1	76.1	103.3	140.7	196.7	273.3	360.4	461.0
-20°	5.4	14.7	32.0	53.4	77.6	104.9	141.9	197.3	272.3	359.3	457.7



REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.4	15.1	32.7	54.5	78.9	106.3	143.1	196.8	269.9	356.4	451.8
-25°	5.4	15.4	33.4	55.5	80.0	107.6	143.7	195.1	266.0	351.5	443.3
-27.5°	5.4	15.7	33.9	56.3	81.0	108.7	143.7	192.4	260.6	345.1	436.1
-30°	5.4	16.1	34.4	57.0	81.8	109.4	143.1	188.4	255.5	337.6	426.8
-32.5°	5.4	16.3	34.7	57.5	82.4	109.8	141.8	186.3	250.1	328.4	415.4
-35°	5.4	16.6	35.0	57.8	82.9	109.9	141.4	184.3	243.3	317.4	401.7
-37.5°	5.4	16.8	35.1	58.0	83.0	109.8	141.1	181.5	235.1	304.7	387.6
-40°	5.4	17.0	35.2	58.0	83.0	109.8	140.4	177.9	225.5	292.9	371.6
-42.5°	5.4	17.1	35.1	57.9	82.8	109.4	139.2	173.5	218.6	280.2	352.9
-45°	5.4	17.3	35.0	57.5	82.3	108.8	137.6	169.7	212.6	265.7	332.4
-47.5°	5.4	17.4	34.7	57.1	81.7	107.8	135.5	167.2	205.7	249.8	314.1
-50°	5.4	17.4	34.4	56.5	80.8	106.6	133.8	164.2	197.3	240.0	294.0
-52.5°	5.4	17.5	34.0	55.7	79.6	105.0	131.8	160.7	191.2	229.1	273.1
-55°	5.4	17.4	33.4	54.9	78.3	103.2	129.4	156.8	186.0	216.9	259.1
-57.5°	5.4	17.4	32.8	53.8	76.7	101.1	126.7	153.4	180.2	208.8	243.7
-60°	5.4	17.4	32.0	52.7	74.9	98.7	123.6	149.3	174.1	201.5	229.8
-62.5°	5.4	17.3	31.7	51.3	73.0	96.0	120.1	144.7	168.6	193.6	220.8
-65°	5.4	17.1	31.3	49.9	70.8	93.0	116.4	139.8	162.7	186.3	211.2
-67.5°	5.4	17.0	30.8	48.2	68.5	89.8	112.3	134.3	156.3	178.8	202.0
-70°	5.4	16.8	30.2	46.5	66.0	86.4	107.9	128.6	149.3	170.9	192.8
-72.5°	5.4	16.6	29.6	45.3	63.3	82.8	103.1	122.4	141.8	162.0	182.9
-75°	5.4	16.4	28.9	44.1	60.4	78.9	98.1	115.9	134.0	152.7	172.0
-77.5°	5.4	16.1	28.1	42.9	58.3	74.8	92.8	109.1	125.7	142.9	160.6
-80°	5.4	15.8	27.3	41.5	56.3	71.5	87.3	102.0	117.0	132.6	148.6
-82.5°	5.4	15.5	26.4	40.1	54.1	68.5	83.2	95.4	108.1	121.9	136.1
-85°	5.4	15.2	25.5	38.6	51.9	65.4	79.2	90.1	101.2	112.7	124.4
-87.5°	5.4	14.8	24.5	37.0	49.5	62.2	75.0	84.6	94.3	104.2	114.3
-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: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	111.9	119.9	127.8	135.7	141.6	147.5	153.3	159.2	164.2	169.2	174.1
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	9.3
67.5°	6.4	6.6	6.4	6.0	5.9	6.8	7.6	10.5	13.7	15.4	16.1
65°	8.0	8.2	8.6	8.7	8.1	10.6	14.0	17.8	21.3	22.0	21.4
62.5°	10.0	11.0	11.7	12.4	13.4	15.9	19.7	23.5	27.3	26.2	22.6
60°	13.8	14.4	16.5	18.6	19.3	20.7	24.8	26.9	28.1	27.4	21.3
57.5°	18.6	19.6	23.1	25.5	26.2	24.6	26.2	27.5	27.4	24.1	18.5
55°	25.1	26.4	30.8	33.9	33.8	27.8	27.5	28.8	26.7	23.5	18.3
52.5°	34.6	35.4	40.2	43.6	42.4	36.2	31.9	33.9	33.6	29.4	25.0
50°	45.1	49.1	50.9	55.7	55.4	50.4	42.1	46.3	53.5	52.2	45.9
47.5°	59.9	65.1	65.3	71.1	73.8	78.1	71.1	79.9	90.7	112.8	105.7
45°	77.7	86.3	87.0	92.4	106.0	122.5	129.1	128.6	183.2	202.8	217.2
42.5°	97.3	111.2	117.0	116.6	160.5	185.5	199.7	244.8	286.3	298.9	305.6
40°	122.2	138.9	151.6	179.9	225.4	259.9	295.6	343.7	366.4	368.6	368.7
37.5°	149.5	173.8	194.2	242.5	300.5	338.8	383.1	403.8	419.6	420.4	438.2
35°	178.7	211.4	249.2	303.1	366.9	410.4	436.1	454.8	463.4	483.1	569.6
32.5°	212.3	251.6	301.1	361.0	422.0	466.3	481.7	497.8	518.6	577.1	831.1
30°	246.0	297.0	350.3	414.8	476.7	507.9	524.0	544.3	577.0	805.0	1156.9
27.5°	274.7	339.4	397.6	464.9	528.0	549.7	568.3	598.7	737.9	1057.7	1546.6
25°	302.2	373.2	441.4	514.3	566.6	590.5	614.0	655.2	926.9	1433.6	1767.3
22.5°	329.6	407.3	481.1	563.2	605.0	629.8	665.9	820.0	1200.0	1809.2	1966.1
20°	357.8	441.4	520.6	602.7	642.0	667.7	717.3	1006.6	1533.7	1969.5	2114.8
17.5°	385.5	474.2	557.6	630.6	671.3	707.7	786.2	1194.3	1834.1	2127.6	2228.8
15°	412.3	505.7	591.4	657.5	700.5	750.8	948.2	1444.0	2029.0	2269.5	2365.6
12.5°	438.1	535.5	621.8	683.4	729.7	793.6	1117.8	1690.8	2159.5	2381.3	2473.3
10°	462.4	563.4	649.1	708.1	758.5	835.4	1288.7	1899.1	2267.2	2456.9	2527.0
7.5°	485.3	587.6	673.6	731.4	786.6	875.7	1454.5	2071.0	2352.2	2521.0	2564.1
5°	505.4	607.3	696.2	756.5	814.9	911.3	1596.4	2208.6	2418.0	2574.3	2602.4
2.5°	522.7	624.3	716.6	780.8	842.2	939.7	1665.1	2264.3	2426.4	2597.8	2642.2
0°	537.3	638.7	734.6	803.3	867.5	964.3	1704.3	2293.2	2416.3	2604.4	2684.0
-2.5°	549.3	658.2	760.3	827.0	891.8	987.6	1701.5	2315.6	2441.7	2664.3	2844.5
-5°	558.7	674.6	782.9	849.0	914.0	1007.6	1671.0	2309.2	2476.3	2717.3	2943.4
-7.5°	565.5	687.5	801.9	869.7	935.9	1030.4	1649.1	2336.9	2577.3	2780.3	2983.5
-10°	570.0	695.9	813.6	889.0	957.9	1052.9	1602.1	2325.3	2671.7	2843.3	3021.9
-12.5°	575.2	700.7	821.0	905.9	977.1	1070.7	1519.2	2269.7	2759.1	2911.3	3059.6
-15°	577.4	702.4	825.0	920.0	993.2	1083.3	1398.8	2166.9	2817.5	2948.3	3083.7
-17.5°	576.4	700.8	825.3	931.3	1006.2	1090.6	1239.8	1976.4	2725.7	2962.8	3106.1
-20°	572.2	696.2	822.0	939.7	1015.9	1099.7	1214.2	1757.5	2475.2	2951.9	3122.1



REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	564.7	688.5	814.4	935.0	1026.8	1111.3	1215.4	1530.4	2179.6	2915.1	3123.3
-25°	555.0	677.6	802.6	930.0	1036.4	1119.1	1211.8	1332.1	1887.0	2597.1	3092.1
-27.5°	543.4	662.9	791.0	920.4	1044.1	1124.1	1212.7	1322.7	1628.9	2229.8	2973.2
-30°	528.6	646.5	774.8	905.5	1033.3	1129.6	1212.9	1301.0	1414.0	1898.4	2539.2
-32.5°	512.0	626.4	753.4	883.4	1013.4	1133.2	1205.9	1285.7	1382.8	1556.8	2104.2
-35°	495.2	605.8	727.3	856.1	988.0	1111.6	1199.9	1271.3	1351.0	1456.8	1706.7
-37.5°	478.8	581.7	696.7	823.4	952.9	1072.7	1188.8	1259.4	1332.4	1406.9	1510.8
-40°	459.6	554.3	665.4	785.4	907.1	1026.7	1141.8	1247.2	1314.3	1378.8	1446.2
-42.5°	437.6	529.7	631.7	741.4	856.3	972.4	1089.4	1200.2	1294.3	1352.1	1413.5
-45°	413.9	502.1	595.5	696.6	801.0	913.2	1025.9	1138.9	1239.5	1329.5	1384.5
-47.5°	387.2	471.6	561.0	648.3	745.6	848.9	957.6	1063.8	1167.4	1263.1	1356.6
-50°	359.4	438.5	520.9	602.5	689.3	783.7	883.6	984.2	1083.7	1181.0	1272.9
-52.5°	334.7	402.1	478.3	555.8	634.8	718.9	807.6	898.7	994.0	1088.7	1174.1
-55°	307.9	369.4	432.9	506.1	581.0	656.7	730.8	812.9	898.0	987.2	1067.0
-57.5°	286.3	335.6	391.3	453.3	523.6	594.7	660.0	726.1	801.8	880.9	950.2
-60°	267.2	306.0	351.4	405.1	462.9	527.1	588.6	649.6	710.8	771.1	836.6
-62.5°	248.6	282.4	317.9	358.7	409.8	459.1	513.3	569.7	626.1	680.2	732.6
-65°	237.3	260.9	291.2	324.5	357.7	400.8	444.6	488.0	537.7	586.7	634.6
-67.5°	225.2	247.5	270.0	294.5	325.1	353.3	381.4	420.7	459.4	496.1	533.8
-70°	213.9	233.7	254.6	275.9	296.4	317.3	343.0	368.4	393.4	420.4	452.7
-72.5°	202.3	220.6	239.3	258.5	277.0	294.3	311.6	329.0	349.4	371.4	392.8
-75°	189.8	206.9	224.1	241.5	257.6	272.9	288.5	304.2	319.7	335.0	350.4
-77.5°	176.4	192.0	207.8	223.8	238.1	251.5	265.2	279.0	292.6	306.0	319.3
-80°	162.6	176.6	190.6	204.9	217.1	229.1	241.1	253.2	265.1	276.9	288.6
-82.5°	148.2	160.4	172.8	185.3	195.7	206.0	216.2	226.4	236.5	246.6	256.6
-85°	134.2	144.0	154.5	165.1	173.9	182.6	191.3	199.9	208.3	216.7	225.0
-87.5°	123.2	132.0	140.8	149.6	156.5	163.4	170.2	177.0	183.4	189.9	196.3
-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: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	179.1	182.5	185.9	189.3	192.7	195.6	198.6	201.5	204.4	206.2	208.1
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°	10.2	10.5	10.8	10.6	10.0	9.5	9.2	9.0	8.7	8.9	9.4
67.5°	15.5	14.4	13.9	13.1	11.7	10.5	9.7	8.9	8.1	7.7	7.6
65°	19.2	15.2	13.2	11.7	10.6	9.2	7.9	6.8	5.8	5.2	4.9
62.5°	18.3	13.0	10.3	8.6	7.2	5.9	4.9	4.1	3.6	3.3	3.3
60°	15.6	10.2	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°	15.5	13.1	9.1	9.3	9.1	7.7	6.5	7.8	7.5	5.9	6.4
52.5°	23.3	26.7	21.8	20.2	27.6	27.4	21.4	29.2	33.5	32.8	33.5
50°	54.8	61.9	69.4	63.6	78.0	86.7	84.8	95.0	105.4	105.2	108.5
47.5°	129.8	149.4	151.6	155.5	172.0	193.0	210.1	222.2	228.3	225.7	227.5
45°	232.3	236.8	246.9	269.4	297.5	331.4	357.2	372.2	422.6	458.5	479.4
42.5°	308.0	321.8	346.6	406.0	449.4	549.3	670.2	717.0	776.4	806.5	808.4
40°	383.9	418.9	521.7	629.7	864.3	1038.8	1049.2	1123.1	1157.2	1119.7	1114.1
37.5°	509.2	639.3	815.9	1065.6	1174.7	1222.1	1248.1	1257.6	1264.5	1258.2	1255.0
35°	756.1	982.4	1155.8	1237.1	1286.5	1288.0	1294.1	1293.3	1285.2	1281.0	1272.0
32.5°	1120.2	1336.1	1341.4	1335.1	1345.4	1339.5	1328.2	1322.9	1305.4	1294.9	1298.5
30°	1495.7	1496.9	1475.6	1426.1	1401.4	1393.8	1377.4	1363.9	1347.3	1349.8	1407.6
27.5°	1644.7	1626.4	1596.6	1554.0	1471.0	1454.7	1441.6	1435.9	1505.4	1568.8	1625.4
25°	1811.4	1764.1	1747.7	1710.5	1625.2	1530.8	1572.3	1637.6	1728.4	1822.9	1914.1
22.5°	1955.5	1921.4	1910.9	1897.0	1757.8	1717.2	1774.1	1881.5	2005.5	2169.8	2638.7
20°	2097.6	2060.7	2048.6	1979.2	1906.2	1916.2	2022.1	2209.4	2556.3	3802.3	5324.0
17.5°	2217.1	2178.9	2137.6	2056.5	2033.3	2134.9	2346.6	3004.6	4641.5	8731.6	12888.7
15°	2328.3	2278.2	2208.0	2154.8	2198.8	2387.9	2912.3	5154.1	10456.2	17321.6	25977.6
12.5°	2427.2	2350.5	2252.2	2224.6	2358.5	2676.9	4733.7	10113.6	18224.1	28004.7	48325.8
10°	2496.1	2396.5	2310.9	2358.5	2571.1	3426.2	6812.0	15162.6	27161.2	49036.8	74336.0
7.5°	2525.6	2435.5	2385.7	2487.9	2771.9	4400.0	10254.8	20970.0	38362.1	67777.3	108142.8
5°	2559.2	2497.0	2469.2	2616.1	2965.3	5193.4	12730.7	25857.2	50340.2	85378.5	137359.1
2.5°	2626.9	2567.6	2548.3	2728.6	3134.4	5933.1	14665.5	29656.6	58275.9	100065.7	163286.1
0°	2746.5	2623.4	2608.0	2784.4	3202.4	6270.0	15935.0	31947.9	62050.3	106350.0	176042.6
-2.5°	2841.4	2694.9	2665.5	2822.9	3232.3	6105.0	15806.3	31868.9	60510.4	104249.6	167941.6
-5°	2924.2	2777.2	2736.8	2882.9	3298.1	6098.8	14968.9	29241.5	54145.8	91605.9	141534.4
-7.5°	2997.9	2870.8	2811.0	2927.3	3306.8	5461.7	12107.4	24075.0	43280.0	71520.8	109546.0
-10°	3075.6	2978.0	2896.5	2974.3	3270.0	4345.6	8099.8	17354.2	30822.2	51866.0	77958.4
-12.5°	3164.4	3115.3	2995.4	3006.8	3220.3	3667.1	5986.5	12115.8	21398.8	32672.2	51585.7
-15°	3239.8	3237.6	3137.3	3105.4	3211.5	3498.0	4176.7	6728.3	12980.4	21002.4	30358.6
-17.5°	3255.6	3335.8	3297.3	3199.8	3206.1	3366.7	3646.4	4458.7	6520.2	11556.0	17122.8
-20°	3265.7	3437.0	3440.9	3361.8	3292.4	3274.5	3402.4	3639.3	4099.9	5801.7	8041.7



REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3281.1	3443.9	3559.7	3537.8	3401.6	3322.0	3293.4	3383.1	3539.0	3758.6	4485.3
-25°	3288.5	3440.4	3606.1	3651.6	3594.5	3448.8	3339.7	3278.8	3334.0	3403.7	3545.8
-27.5°	3257.1	3434.9	3595.7	3730.4	3746.8	3651.5	3491.2	3361.2	3310.6	3262.8	3321.3
-30°	3205.0	3403.6	3571.7	3737.5	3803.8	3773.2	3689.4	3583.8	3460.7	3364.9	3331.2
-32.5°	2778.3	3356.8	3529.0	3672.6	3782.0	3813.2	3814.1	3757.5	3704.9	3631.0	3544.5
-35°	2289.0	2930.7	3490.8	3563.1	3663.4	3766.9	3843.8	3846.4	3840.2	3805.2	3768.8
-37.5°	1779.4	2377.4	2916.0	3347.2	3498.9	3620.7	3752.4	3841.3	3897.2	3887.1	3880.4
-40°	1549.2	1737.6	2241.6	2681.1	3049.8	3396.8	3539.4	3699.3	3827.8	3872.6	3902.8
-42.5°	1478.1	1558.7	1640.7	1973.8	2353.7	2687.8	3002.1	3301.7	3569.3	3720.9	3826.4
-45°	1439.1	1483.9	1534.2	1608.3	1672.4	1949.2	2230.7	2504.2	2838.0	3145.3	3411.7
-47.5°	1403.0	1438.0	1476.9	1515.1	1550.7	1601.0	1644.5	1722.1	1972.2	2224.3	2477.2
-50°	1344.9	1402.8	1435.1	1463.6	1488.8	1512.1	1532.3	1567.3	1608.8	1645.0	1681.6
-52.5°	1247.7	1313.0	1375.0	1421.9	1441.7	1461.1	1480.9	1507.5	1532.1	1554.5	1571.8
-55°	1138.9	1205.0	1267.5	1315.0	1357.7	1397.0	1432.1	1455.6	1478.6	1500.7	1517.5
-57.5°	1019.1	1086.5	1147.6	1193.2	1235.9	1275.6	1314.1	1351.2	1385.1	1415.7	1441.7
-60°	897.8	954.7	1009.9	1058.2	1102.2	1141.9	1180.0	1216.5	1249.9	1279.9	1306.0
-62.5°	784.0	836.7	880.3	919.8	957.7	994.4	1032.9	1068.4	1100.7	1130.2	1157.2
-65°	681.4	726.8	759.8	790.7	819.9	851.4	885.3	916.6	945.1	971.6	996.0
-67.5°	575.8	615.1	644.1	670.9	695.8	720.8	748.0	773.2	796.5	818.8	839.6
-70°	484.1	511.5	531.7	552.2	574.4	597.0	620.3	641.6	660.8	679.0	695.8
-72.5°	413.5	430.4	444.6	462.1	477.9	494.8	512.1	528.2	542.9	557.2	570.6
-75°	365.8	378.2	389.8	400.7	410.8	422.8	435.3	447.1	458.3	468.7	478.6
-77.5°	332.6	342.2	350.2	357.8	365.0	374.3	384.1	393.6	402.9	410.7	418.0
-80°	300.2	307.9	314.7	321.3	327.6	335.7	343.9	351.9	359.7	366.8	373.6
-82.5°	266.6	272.9	278.7	284.2	289.6	296.5	303.2	309.8	316.2	322.1	327.8
-85°	233.2	238.0	242.5	246.9	251.1	256.7	262.2	267.6	272.9	276.7	280.4
-87.5°	202.8	206.3	209.8	213.1	216.4	220.4	224.5	228.4	232.4	234.9	237.4
-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: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	209.9	211.7	211.3	210.8	211.3	211.7	209.9	208.1	206.2	204.4	201.5
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°	10.1	10.7	10.9	10.9	10.9	10.7	10.1	9.4	8.9	8.7	9.0
67.5°	7.5	7.3	6.8	6.3	6.8	7.3	7.5	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°	33.0	30.5	26.5	21.7	26.5	30.5	33.0	33.5	32.8	33.5	29.2
50°	114.8	117.8	115.1	106.7	115.1	117.8	114.8	108.5	105.2	105.4	95.0
47.5°	236.4	239.0	230.8	211.7	230.8	239.0	236.4	227.5	225.7	228.3	222.2
45°	495.0	491.2	448.6	360.0	448.6	491.2	495.0	479.4	458.5	422.6	372.2
42.5°	853.7	891.8	914.2	914.6	914.2	891.8	853.7	808.4	806.5	776.4	717.0
40°	1105.0	1060.4	1011.7	1004.1	1011.7	1060.4	1105.0	1114.1	1119.7	1157.2	1123.1
37.5°	1247.3	1256.7	1251.4	1146.2	1251.4	1256.7	1247.3	1255.0	1258.2	1264.5	1257.6
35°	1292.7	1363.3	1436.1	1451.0	1436.1	1363.3	1292.7	1272.0	1281.0	1285.2	1293.3
32.5°	1314.6	1338.8	1345.4	1347.9	1345.4	1338.8	1314.6	1298.5	1294.9	1305.4	1322.9
30°	1434.2	1450.0	1447.7	1444.7	1447.7	1450.0	1434.2	1407.6	1349.8	1347.3	1363.9
27.5°	1652.1	1678.3	1690.0	1698.0	1690.0	1678.3	1652.1	1625.4	1568.8	1505.4	1435.9
25°	1963.9	2004.0	2031.5	2043.6	2031.5	2004.0	1963.9	1914.1	1822.9	1728.4	1637.6
22.5°	3180.3	3457.9	3732.5	3874.5	3732.5	3457.9	3180.3	2638.7	2169.8	2005.5	1881.5
20°	7939.4	9138.5	9686.1	9846.0	9686.1	9138.5	7939.4	5324.0	3802.3	2556.3	2209.4
17.5°	18489.1	23034.5	26074.7	23410.9	26074.7	23034.5	18489.1	12888.7	8731.6	4641.5	3004.6
15°	37843.0	49354.9	55796.6	52171.8	55796.6	49354.9	37843.0	25977.6	17321.6	10456.2	5154.1
12.5°	68182.2	86148.2	98214.9	94235.7	98214.9	86148.2	68182.2	48325.8	28004.7	18224.1	10113.6
10°	107317.3	143444.2	167499.6	173446.4	167499.6	143444.2	107317.3	74336.0	49036.8	27161.2	15162.6
7.5°	155738.0	200468.0	235775.5	241240.2	235775.5	200468.0	155738.0	108142.8	67777.3	38362.1	20970.0
5°	203107.7	255905.7	292642.4	302179.6	292642.4	255905.7	203107.7	137359.1	85378.5	50340.2	25857.2
2.5°	232508.8	289975.1	334226.4	353718.2	334226.4	289975.1	232508.8	163286.1	100065.7	58275.9	29656.6
0°	243002.9	303019.1	351031.9	378991.7	351031.9	303019.1	243002.9	176042.6	106350.0	62050.3	31947.9
-2.5°	234866.6	289216.9	329748.2	349185.0	329748.2	289216.9	234866.6	167941.6	104249.6	60510.4	31868.9
-5°	200040.0	254041.0	287018.0	302850.8	287018.0	254041.0	200040.0	141534.4	91605.9	54145.8	29241.5
-7.5°	156313.5	199534.7	228011.0	242415.3	228011.0	199534.7	156313.5	109546.0	71520.8	43280.0	24075.0
-10°	109372.5	143662.9	162858.2	174611.5	162858.2	143662.9	109372.5	77958.4	51866.0	30822.2	17354.2
-12.5°	71163.1	91122.2	101872.8	109403.1	101872.8	91122.2	71163.1	51585.7	32672.2	21398.8	12115.8
-15°	43200.3	52927.4	58764.2	62423.0	58764.2	52927.4	43200.3	30358.6	21002.4	12980.4	6728.3
-17.5°	24111.8	28289.8	31248.1	32885.1	31248.1	28289.8	24111.8	17122.8	11556.0	6520.2	4458.7
-20°	11964.3	14607.4	16343.4	17072.2	16343.4	14607.4	11964.3	8041.7	5801.7	4099.9	3639.3



REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5521.6	6227.6	6695.1	6917.7	6695.1	6227.6	5521.6	4485.3	3758.6	3539.0	3383.1
-25°	3684.0	3794.8	3876.2	3911.6	3876.2	3794.8	3684.0	3545.8	3403.7	3334.0	3278.8
-27.5°	3374.3	3433.0	3481.7	3500.9	3481.7	3433.0	3374.3	3321.3	3262.8	3310.6	3361.2
-30°	3305.4	3307.9	3321.7	3321.8	3321.7	3307.9	3305.4	3331.2	3364.9	3460.7	3583.8
-32.5°	3479.1	3440.9	3424.3	3442.1	3424.3	3440.9	3479.1	3544.5	3631.0	3704.9	3757.5
-35°	3744.5	3734.2	3735.0	3754.2	3735.0	3734.2	3744.5	3768.8	3805.2	3840.2	3846.4
-37.5°	3882.1	3890.2	3899.4	3901.7	3899.4	3890.2	3882.1	3880.4	3887.1	3897.2	3841.3
-40°	3920.4	3936.2	3948.1	3952.3	3948.1	3936.2	3920.4	3902.8	3872.6	3827.8	3699.3
-42.5°	3873.0	3904.5	3921.2	3925.2	3921.2	3904.5	3873.0	3826.4	3720.9	3569.3	3301.7
-45°	3605.2	3745.6	3825.0	3846.5	3825.0	3745.6	3605.2	3411.7	3145.3	2838.0	2504.2
-47.5°	2723.4	2943.7	3097.1	3168.0	3097.1	2943.7	2723.4	2477.2	2224.3	1972.2	1722.1
-50°	1719.9	1756.2	1783.4	1800.2	1783.4	1756.2	1719.9	1681.6	1645.0	1608.8	1567.3
-52.5°	1586.7	1600.1	1607.9	1611.1	1607.9	1600.1	1586.7	1571.8	1554.5	1532.1	1507.5
-55°	1531.9	1544.2	1549.6	1550.5	1549.6	1544.2	1531.9	1517.5	1500.7	1478.6	1455.6
-57.5°	1464.2	1483.0	1491.2	1492.6	1491.2	1483.0	1464.2	1441.7	1415.7	1385.1	1351.2
-60°	1328.1	1346.3	1355.3	1358.8	1355.3	1346.3	1328.1	1306.0	1279.9	1249.9	1216.5
-62.5°	1180.7	1200.5	1206.6	1205.9	1206.6	1200.5	1180.7	1157.2	1130.2	1100.7	1068.4
-65°	1017.3	1035.4	1040.6	1040.3	1040.6	1035.4	1017.3	996.0	971.6	945.1	916.6
-67.5°	858.2	874.2	879.7	881.1	879.7	874.2	858.2	839.6	818.8	796.5	773.2
-70°	710.5	723.1	726.3	726.4	726.3	723.1	710.5	695.8	679.0	660.8	641.6
-72.5°	582.8	593.7	595.5	595.2	595.5	593.7	582.8	570.6	557.2	542.9	528.2
-75°	487.8	496.5	496.8	495.7	496.8	496.5	487.8	478.6	468.7	458.3	447.1
-77.5°	424.9	431.3	432.6	433.3	432.6	431.3	424.9	418.0	410.7	402.9	393.6
-80°	380.1	386.3	386.1	385.4	386.1	386.3	380.1	373.6	366.8	359.7	351.9
-82.5°	333.3	338.5	338.6	338.3	338.6	338.5	333.3	327.8	322.1	316.2	309.8
-85°	284.0	287.3	287.2	286.8	287.2	287.3	284.0	280.4	276.7	272.9	267.6
-87.5°	239.9	242.3	242.4	242.4	242.4	242.3	239.9	237.4	234.9	232.4	228.4
-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: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	198.6	195.6	192.7	189.3	185.9	182.5	179.1	174.1	169.2	164.2	159.2
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	9.5	10.0	10.6	10.8	10.5	10.2	9.3	7.7	6.6	5.9
67.5°	9.7	10.5	11.7	13.1	13.9	14.4	15.5	16.1	15.4	13.7	10.5
65°	7.9	9.2	10.6	11.7	13.2	15.2	19.2	21.4	22.0	21.3	17.8
62.5°	4.9	5.9	7.2	8.6	10.3	13.0	18.3	22.6	26.2	27.3	23.5
60°	2.7	2.9	4.3	5.8	7.1	10.2	15.6	21.3	27.4	28.1	26.9
57.5°	2.9	3.4	4.7	5.4	5.5	9.1	13.9	18.5	24.1	27.4	27.5
55°	6.5	7.7	9.1	9.3	9.1	13.1	15.5	18.3	23.5	26.7	28.8
52.5°	21.4	27.4	27.6	20.2	21.8	26.7	23.3	25.0	29.4	33.6	33.9
50°	84.8	86.7	78.0	63.6	69.4	61.9	54.8	45.9	52.2	53.5	46.3
47.5°	210.1	193.0	172.0	155.5	151.6	149.4	129.8	105.7	112.8	90.7	79.9
45°	357.2	331.4	297.5	269.4	246.9	236.8	232.3	217.2	202.8	183.2	128.6
42.5°	670.2	549.3	449.4	406.0	346.6	321.8	308.0	305.6	298.9	286.3	244.8
40°	1049.2	1038.8	864.3	629.7	521.7	418.9	383.9	368.7	368.6	366.4	343.7
37.5°	1248.1	1222.1	1174.7	1065.6	815.9	639.3	509.2	438.2	420.4	419.6	403.8
35°	1294.1	1288.0	1286.5	1237.1	1155.8	982.4	756.1	569.6	483.1	463.4	454.8
32.5°	1328.2	1339.5	1345.4	1335.1	1341.4	1336.1	1120.2	831.1	577.1	518.6	497.8
30°	1377.4	1393.8	1401.4	1426.1	1475.6	1496.9	1495.7	1156.9	805.0	577.0	544.3
27.5°	1441.6	1454.7	1471.0	1554.0	1596.6	1626.4	1644.7	1546.6	1057.7	737.9	598.7
25°	1572.3	1530.8	1625.2	1710.5	1747.7	1764.1	1811.4	1767.3	1433.6	926.9	655.2
22.5°	1774.1	1717.2	1757.8	1897.0	1910.9	1921.4	1955.5	1966.1	1809.2	1200.0	820.0
20°	2022.1	1916.2	1906.2	1979.2	2048.6	2060.7	2097.6	2114.8	1969.5	1533.7	1006.6
17.5°	2346.6	2134.9	2033.3	2056.5	2137.6	2178.9	2217.1	2228.8	2127.6	1834.1	1194.3
15°	2912.3	2387.9	2198.8	2154.8	2208.0	2278.2	2328.3	2365.6	2269.5	2029.0	1444.0
12.5°	4733.7	2676.9	2358.5	2224.6	2252.2	2350.5	2427.2	2473.3	2381.3	2159.5	1690.8
10°	6812.0	3426.2	2571.1	2358.5	2310.9	2396.5	2496.1	2527.0	2456.9	2267.2	1899.1
7.5°	10254.8	4400.0	2771.9	2487.9	2385.7	2435.5	2525.6	2564.1	2521.0	2352.2	2071.0
5°	12730.7	5193.4	2965.3	2616.1	2469.2	2497.0	2559.2	2602.4	2574.3	2418.0	2208.6
2.5°	14665.5	5933.1	3134.4	2728.6	2548.3	2567.6	2626.9	2642.2	2597.8	2426.4	2264.3
0°	15935.0	6270.0	3202.4	2784.4	2608.0	2623.4	2746.5	2684.0	2604.4	2416.3	2293.2
-2.5°	15806.3	6105.0	3232.3	2822.9	2665.5	2694.9	2841.4	2844.5	2664.3	2441.7	2315.6
-5°	14968.9	6098.8	3298.1	2882.9	2736.8	2777.2	2924.2	2943.4	2717.3	2476.3	2309.2
-7.5°	12107.4	5461.7	3306.8	2927.3	2811.0	2870.8	2997.9	2983.5	2780.3	2577.3	2336.9
-10°	8099.8	4345.6	3270.0	2974.3	2896.5	2978.0	3075.6	3021.9	2843.3	2671.7	2325.3
-12.5°	5986.5	3667.1	3220.3	3006.8	2995.4	3115.3	3164.4	3059.6	2911.3	2759.1	2269.7
-15°	4176.7	3498.0	3211.5	3105.4	3137.3	3237.6	3239.8	3083.7	2948.3	2817.5	2166.9
-17.5°	3646.4	3366.7	3206.1	3199.8	3297.3	3335.8	3255.6	3106.1	2962.8	2725.7	1976.4
-20°	3402.4	3274.5	3292.4	3361.8	3440.9	3437.0	3265.7	3122.1	2951.9	2475.2	1757.5



REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3293.4	3322.0	3401.6	3537.8	3559.7	3443.9	3281.1	3123.3	2915.1	2179.6	1530.4
-25°	3339.7	3448.8	3594.5	3651.6	3606.1	3440.4	3288.5	3092.1	2597.1	1887.0	1332.1
-27.5°	3491.2	3651.5	3746.8	3730.4	3595.7	3434.9	3257.1	2973.2	2229.8	1628.9	1322.7
-30°	3689.4	3773.2	3803.8	3737.5	3571.7	3403.6	3205.0	2539.2	1898.4	1414.0	1301.0
-32.5°	3814.1	3813.2	3782.0	3672.6	3529.0	3356.8	2778.3	2104.2	1556.8	1382.8	1285.7
-35°	3843.8	3766.9	3663.4	3563.1	3490.8	2930.7	2289.0	1706.7	1456.8	1351.0	1271.3
-37.5°	3752.4	3620.7	3498.9	3347.2	2916.0	2377.4	1779.4	1510.8	1406.9	1332.4	1259.4
-40°	3539.4	3396.8	3049.8	2681.1	2241.6	1737.6	1549.2	1446.2	1378.8	1314.3	1247.2
-42.5°	3002.1	2687.8	2353.7	1973.8	1640.7	1558.7	1478.1	1413.5	1352.1	1294.3	1200.2
-45°	2230.7	1949.2	1672.4	1608.3	1534.2	1483.9	1439.1	1384.5	1329.5	1239.5	1138.9
-47.5°	1644.5	1601.0	1550.7	1515.1	1476.9	1438.0	1403.0	1356.6	1263.1	1167.4	1063.8
-50°	1532.3	1512.1	1488.8	1463.6	1435.1	1402.8	1344.9	1272.9	1181.0	1083.7	984.2
-52.5°	1480.9	1461.1	1441.7	1421.9	1375.0	1313.0	1247.7	1174.1	1088.7	994.0	898.7
-55°	1432.1	1397.0	1357.7	1315.0	1267.5	1205.0	1138.9	1067.0	987.2	898.0	812.9
-57.5°	1314.1	1275.6	1235.9	1193.2	1147.6	1086.5	1019.1	950.2	880.9	801.8	726.1
-60°	1180.0	1141.9	1102.2	1058.2	1009.9	954.7	897.8	836.6	771.1	710.8	649.6
-62.5°	1032.9	994.4	957.7	919.8	880.3	836.7	784.0	732.6	680.2	626.1	569.7
-65°	885.3	851.4	819.9	790.7	759.8	726.8	681.4	634.6	586.7	537.7	488.0
-67.5°	748.0	720.8	695.8	670.9	644.1	615.1	575.8	533.8	496.1	459.4	420.7
-70°	620.3	597.0	574.4	552.2	531.7	511.5	484.1	452.7	420.4	393.4	368.4
-72.5°	512.1	494.8	477.9	462.1	444.6	430.4	413.5	392.8	371.4	349.4	329.0
-75°	435.3	422.8	410.8	400.7	389.8	378.2	365.8	350.4	335.0	319.7	304.2
-77.5°	384.1	374.3	365.0	357.8	350.2	342.2	332.6	319.3	306.0	292.6	279.0
-80°	343.9	335.7	327.6	321.3	314.7	307.9	300.2	288.6	276.9	265.1	253.2
-82.5°	303.2	296.5	289.6	284.2	278.7	272.9	266.6	256.6	246.6	236.5	226.4
-85°	262.2	256.7	251.1	246.9	242.5	238.0	233.2	225.0	216.7	208.3	199.9
-87.5°	224.5	220.4	216.4	213.1	209.8	206.3	202.8	196.3	189.9	183.4	177.0
-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: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	153.3	147.5	141.6	135.7	127.8	119.9	111.9	104.0	95.7	87.3	79.0
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	6.0	6.4	6.6	6.4	7.1	7.7	7.4	7.3
65°	14.0	10.6	8.1	8.7	8.6	8.2	8.0	8.8	9.3	9.1	8.3
62.5°	19.7	15.9	13.4	12.4	11.7	11.0	10.0	11.1	11.1	10.9	9.9
60°	24.8	20.7	19.3	18.6	16.5	14.4	13.8	13.7	13.8	12.8	11.8
57.5°	26.2	24.6	26.2	25.5	23.1	19.6	18.6	18.1	16.6	15.4	13.8
55°	27.5	27.8	33.8	33.9	30.8	26.4	25.1	23.7	20.1	18.2	16.3
52.5°	31.9	36.2	42.4	43.6	40.2	35.4	34.6	29.9	26.2	21.2	19.7
50°	42.1	50.4	55.4	55.7	50.9	49.1	45.1	39.7	32.7	25.2	23.5
47.5°	71.1	78.1	73.8	71.1	65.3	65.1	59.9	50.6	39.5	31.5	27.5
45°	129.1	122.5	106.0	92.4	87.0	86.3	77.7	62.2	50.2	39.3	31.9
42.5°	199.7	185.5	160.5	116.6	117.0	111.2	97.3	79.5	61.4	47.6	38.0
40°	295.6	259.9	225.4	179.9	151.6	138.9	122.2	99.0	73.2	57.1	45.4
37.5°	383.1	338.8	300.5	242.5	194.2	173.8	149.5	119.7	88.5	69.1	52.9
35°	436.1	410.4	366.9	303.1	249.2	211.4	178.7	143.1	107.8	81.3	60.7
32.5°	481.7	466.3	422.0	361.0	301.1	251.6	212.3	167.4	126.6	93.7	68.5
30°	524.0	507.9	476.7	414.8	350.3	297.0	246.0	190.7	145.0	106.3	77.0
27.5°	568.3	549.7	528.0	464.9	397.6	339.4	274.7	212.9	162.9	120.1	87.3
25°	614.0	590.5	566.6	514.3	441.4	373.2	302.2	234.2	181.4	135.2	97.6
22.5°	665.9	629.8	605.0	563.2	481.1	407.3	329.6	257.6	199.4	149.7	107.8
20°	717.3	667.7	642.0	602.7	520.6	441.4	357.8	279.7	216.4	163.6	117.7
17.5°	786.2	707.7	671.3	630.6	557.6	474.2	385.5	300.4	232.4	176.9	127.4
15°	948.2	750.8	700.5	657.5	591.4	505.7	412.3	319.7	247.2	189.4	136.3
12.5°	1117.8	793.6	729.7	683.4	621.8	535.5	438.1	337.5	260.9	200.8	144.1
10°	1288.7	835.4	758.5	708.1	649.1	563.4	462.4	355.9	275.9	211.2	151.2
7.5°	1454.5	875.7	786.6	731.4	673.6	587.6	485.3	377.3	290.5	220.8	157.6
5°	1596.4	911.3	814.9	756.5	696.2	607.3	505.4	397.3	304.3	229.6	163.4
2.5°	1665.1	939.7	842.2	780.8	716.6	624.3	522.7	415.8	317.0	237.4	168.5
0°	1704.3	964.3	867.5	803.3	734.6	638.7	537.3	432.4	328.4	244.2	172.8
-2.5°	1701.5	987.6	891.8	827.0	760.3	658.2	549.3	441.7	337.2	252.2	178.7
-5°	1671.0	1007.6	914.0	849.0	782.9	674.6	558.7	448.8	344.4	259.0	183.8
-7.5°	1649.1	1030.4	935.9	869.7	801.9	687.5	565.5	453.9	350.2	264.4	188.1
-10°	1602.1	1052.9	957.9	889.0	813.6	695.9	570.0	456.8	354.3	268.6	191.6
-12.5°	1519.2	1070.7	977.1	905.9	821.0	700.7	575.2	459.9	357.1	271.2	194.1
-15°	1398.8	1083.3	993.2	920.0	825.0	702.4	577.4	461.7	359.7	272.8	195.6
-17.5°	1239.8	1090.6	1006.2	931.3	825.3	700.8	576.4	461.0	360.4	273.3	196.7
-20°	1214.2	1099.7	1015.9	939.7	822.0	696.2	572.2	457.7	359.3	272.3	197.3



REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1215.4	1111.3	1026.8	935.0	814.4	688.5	564.7	451.8	356.4	269.9	196.8
-25°	1211.8	1119.1	1036.4	930.0	802.6	677.6	555.0	443.3	351.5	266.0	195.1
-27.5°	1212.7	1124.1	1044.1	920.4	791.0	662.9	543.4	436.1	345.1	260.6	192.4
-30°	1212.9	1129.6	1033.3	905.5	774.8	646.5	528.6	426.8	337.6	255.5	188.4
-32.5°	1205.9	1133.2	1013.4	883.4	753.4	626.4	512.0	415.4	328.4	250.1	186.3
-35°	1199.9	1111.6	988.0	856.1	727.3	605.8	495.2	401.7	317.4	243.3	184.3
-37.5°	1188.8	1072.7	952.9	823.4	696.7	581.7	478.8	387.6	304.7	235.1	181.5
-40°	1141.8	1026.7	907.1	785.4	665.4	554.3	459.6	371.6	292.9	225.5	177.9
-42.5°	1089.4	972.4	856.3	741.4	631.7	529.7	437.6	352.9	280.2	218.6	173.5
-45°	1025.9	913.2	801.0	696.6	595.5	502.1	413.9	332.4	265.7	212.6	169.7
-47.5°	957.6	848.9	745.6	648.3	561.0	471.6	387.2	314.1	249.8	205.7	167.2
-50°	883.6	783.7	689.3	602.5	520.9	438.5	359.4	294.0	240.0	197.3	164.2
-52.5°	807.6	718.9	634.8	555.8	478.3	402.1	334.7	273.1	229.1	191.2	160.7
-55°	730.8	656.7	581.0	506.1	432.9	369.4	307.9	259.1	216.9	186.0	156.8
-57.5°	660.0	594.7	523.6	453.3	391.3	335.6	286.3	243.7	208.8	180.2	153.4
-60°	588.6	527.1	462.9	405.1	351.4	306.0	267.2	229.8	201.5	174.1	149.3
-62.5°	513.3	459.1	409.8	358.7	317.9	282.4	248.6	220.8	193.6	168.6	144.7
-65°	444.6	400.8	357.7	324.5	291.2	260.9	237.3	211.2	186.3	162.7	139.8
-67.5°	381.4	353.3	325.1	294.5	270.0	247.5	225.2	202.0	178.8	156.3	134.3
-70°	343.0	317.3	296.4	275.9	254.6	233.7	213.9	192.8	170.9	149.3	128.6
-72.5°	311.6	294.3	277.0	258.5	239.3	220.6	202.3	182.9	162.0	141.8	122.4
-75°	288.5	272.9	257.6	241.5	224.1	206.9	189.8	172.0	152.7	134.0	115.9
-77.5°	265.2	251.5	238.1	223.8	207.8	192.0	176.4	160.6	142.9	125.7	109.1
-80°	241.1	229.1	217.1	204.9	190.6	176.6	162.6	148.6	132.6	117.0	102.0
-82.5°	216.2	206.0	195.7	185.3	172.8	160.4	148.2	136.1	121.9	108.1	95.4
-85°	191.3	182.6	173.9	165.1	154.5	144.0	134.2	124.4	112.7	101.2	90.1
-87.5°	170.2	163.4	156.5	149.6	140.8	132.0	123.2	114.3	104.2	94.3	84.6
-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: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	70.6	58.8	47.0	35.3	23.5	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	5.2	5.4
77.5°	4.2	4.3	4.4	4.5	4.5	5.3	5.4
75°	4.8	4.9	4.7	4.7	4.7	5.5	5.4
72.5°	5.3	5.6	5.3	4.9	4.9	5.7	5.4
70°	6.0	6.3	6.0	5.1	5.1	5.8	5.4
67.5°	7.2	7.0	6.7	5.7	5.3	6.0	5.4
65°	8.4	8.0	7.4	6.4	5.6	6.2	5.4
62.5°	9.7	9.3	8.1	7.0	5.8	6.4	5.4
60°	11.2	10.7	8.8	7.6	6.1	6.6	5.4
57.5°	13.4	12.1	10.1	8.2	6.7	6.8	5.4
55°	15.8	13.6	11.4	8.8	7.4	6.9	5.4
52.5°	18.4	15.3	12.7	9.5	8.0	7.1	5.4
50°	21.1	17.7	14.0	10.1	8.7	7.3	5.4
47.5°	24.1	20.1	15.4	10.8	9.4	7.5	5.4
45°	27.9	22.7	16.8	11.9	10.1	7.7	5.4
42.5°	31.9	25.3	18.2	12.9	10.9	7.9	5.4
40°	36.0	27.9	19.9	14.3	11.6	8.1	5.4
37.5°	40.3	30.7	22.0	15.9	12.4	8.3	5.4
35°	44.7	33.9	24.1	17.5	13.2	8.5	5.4
32.5°	49.8	37.4	26.2	19.2	14.0	8.7	5.4
30°	56.1	40.9	28.2	20.9	14.8	8.9	5.4
27.5°	62.4	44.4	31.2	22.5	15.6	9.1	5.4
25°	68.7	47.9	34.2	24.2	16.4	9.3	5.4
22.5°	74.9	51.7	37.1	25.9	17.2	9.5	5.4
20°	80.9	56.0	40.1	27.6	18.0	9.7	5.4
17.5°	87.0	60.1	43.0	29.3	18.7	9.8	5.4
15°	92.8	64.1	45.8	31.0	19.5	10.0	5.4
12.5°	98.3	67.9	48.5	32.6	20.2	10.2	5.4
10°	103.5	71.6	51.2	34.2	21.0	10.3	5.4
7.5°	108.3	75.0	53.7	35.7	21.7	10.5	5.4
5°	112.7	78.2	56.2	37.1	22.3	10.6	5.4
2.5°	116.7	81.3	58.5	38.5	22.9	10.8	5.4
0°	120.3	84.1	60.6	39.8	23.5	10.9	5.4
-2.5°	124.6	87.6	63.3	41.9	24.8	11.4	5.4
-5°	128.4	90.9	65.9	43.9	26.0	11.9	5.4
-7.5°	131.8	93.9	68.2	45.8	27.2	12.4	5.4
-10°	134.7	96.6	70.5	47.6	28.3	12.9	5.4
-12.5°	137.2	99.1	72.5	49.2	29.3	13.4	5.4
-15°	139.2	101.3	74.4	50.7	30.3	13.8	5.4
-17.5°	140.7	103.3	76.1	52.1	31.2	14.3	5.4
-20°	141.9	104.9	77.6	53.4	32.0	14.7	5.4



REPORT NUMBER: P701438 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	143.1	106.3	78.9	54.5	32.7	15.1	5.4
-25°	143.7	107.6	80.0	55.5	33.4	15.4	5.4
-27.5°	143.7	108.7	81.0	56.3	33.9	15.7	5.4
-30°	143.1	109.4	81.8	57.0	34.4	16.1	5.4
-32.5°	141.8	109.8	82.4	57.5	34.7	16.3	5.4
-35°	141.4	109.9	82.9	57.8	35.0	16.6	5.4
-37.5°	141.1	109.8	83.0	58.0	35.1	16.8	5.4
-40°	140.4	109.8	83.0	58.0	35.2	17.0	5.4
-42.5°	139.2	109.4	82.8	57.9	35.1	17.1	5.4
-45°	137.6	108.8	82.3	57.5	35.0	17.3	5.4
-47.5°	135.5	107.8	81.7	57.1	34.7	17.4	5.4
-50°	133.8	106.6	80.8	56.5	34.4	17.4	5.4
-52.5°	131.8	105.0	79.6	55.7	34.0	17.5	5.4
-55°	129.4	103.2	78.3	54.9	33.4	17.4	5.4
-57.5°	126.7	101.1	76.7	53.8	32.8	17.4	5.4
-60°	123.6	98.7	74.9	52.7	32.0	17.4	5.4
-62.5°	120.1	96.0	73.0	51.3	31.7	17.3	5.4
-65°	116.4	93.0	70.8	49.9	31.3	17.1	5.4
-67.5°	112.3	89.8	68.5	48.2	30.8	17.0	5.4
-70°	107.9	86.4	66.0	46.5	30.2	16.8	5.4
-72.5°	103.1	82.8	63.3	45.3	29.6	16.6	5.4
-75°	98.1	78.9	60.4	44.1	28.9	16.4	5.4
-77.5°	92.8	74.8	58.3	42.9	28.1	16.1	5.4
-80°	87.3	71.5	56.3	41.5	27.3	15.8	5.4
-82.5°	83.2	68.5	54.1	40.1	26.4	15.5	5.4
-85°	79.2	65.4	51.9	38.6	25.5	15.2	5.4
-87.5°	75.0	62.2	49.5	37.0	24.5	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

