

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: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-2S-CV2**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-70-2S-CV2  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 2S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

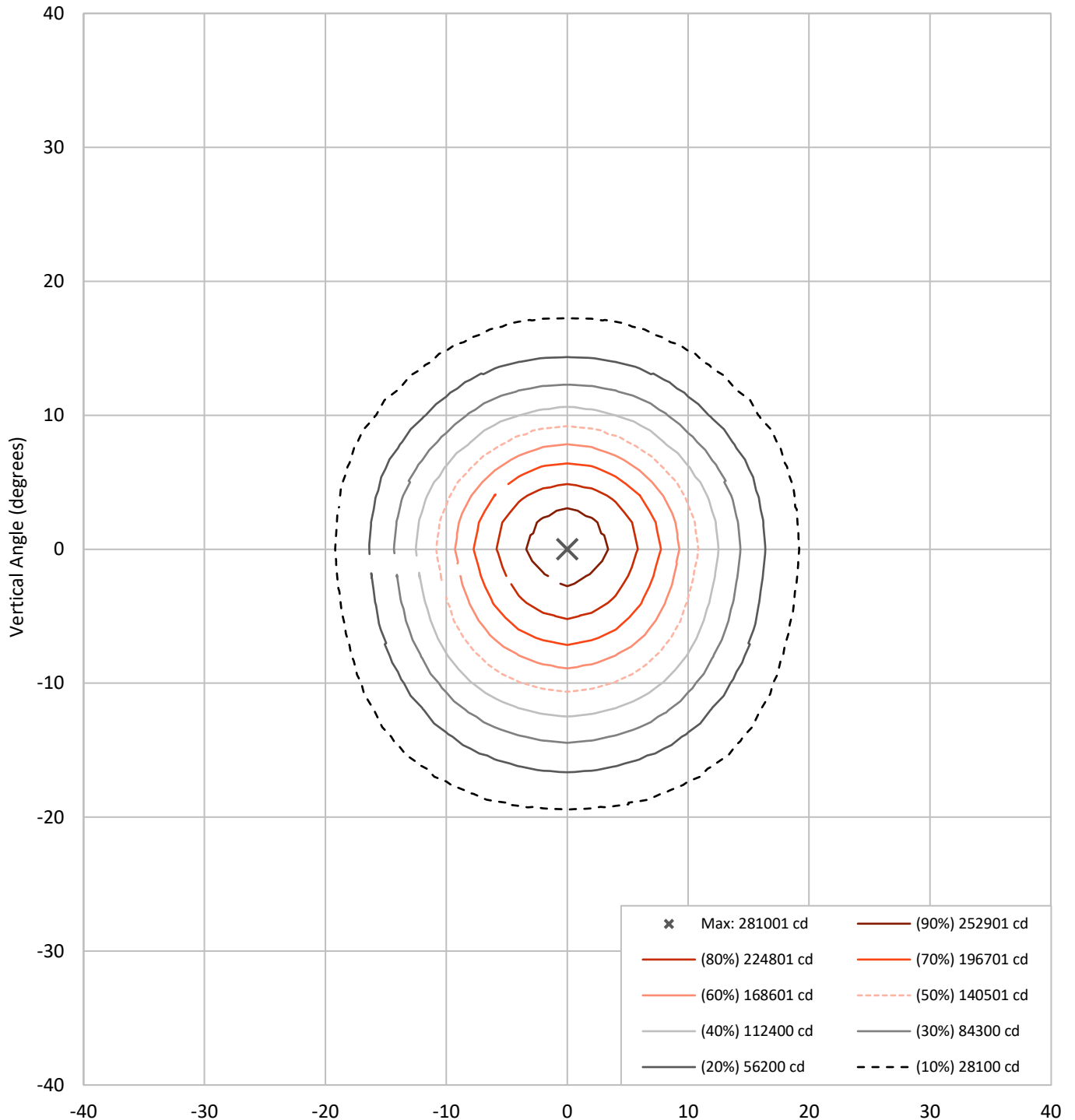
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	43499.5 lumens	Max Intensity:	281001 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	124.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.7°H x 19.8°V	Field Angle (10%):	38.4°H x 36.6°V
Beam Lumens:	20109.5 lumens	Field Lumens:	37513.6 lumens
Beam Efficiency:	46.2%	Field Efficiency:	86.2%

Input Watts (W): 348.5  
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: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

### Iso-Candela Plot





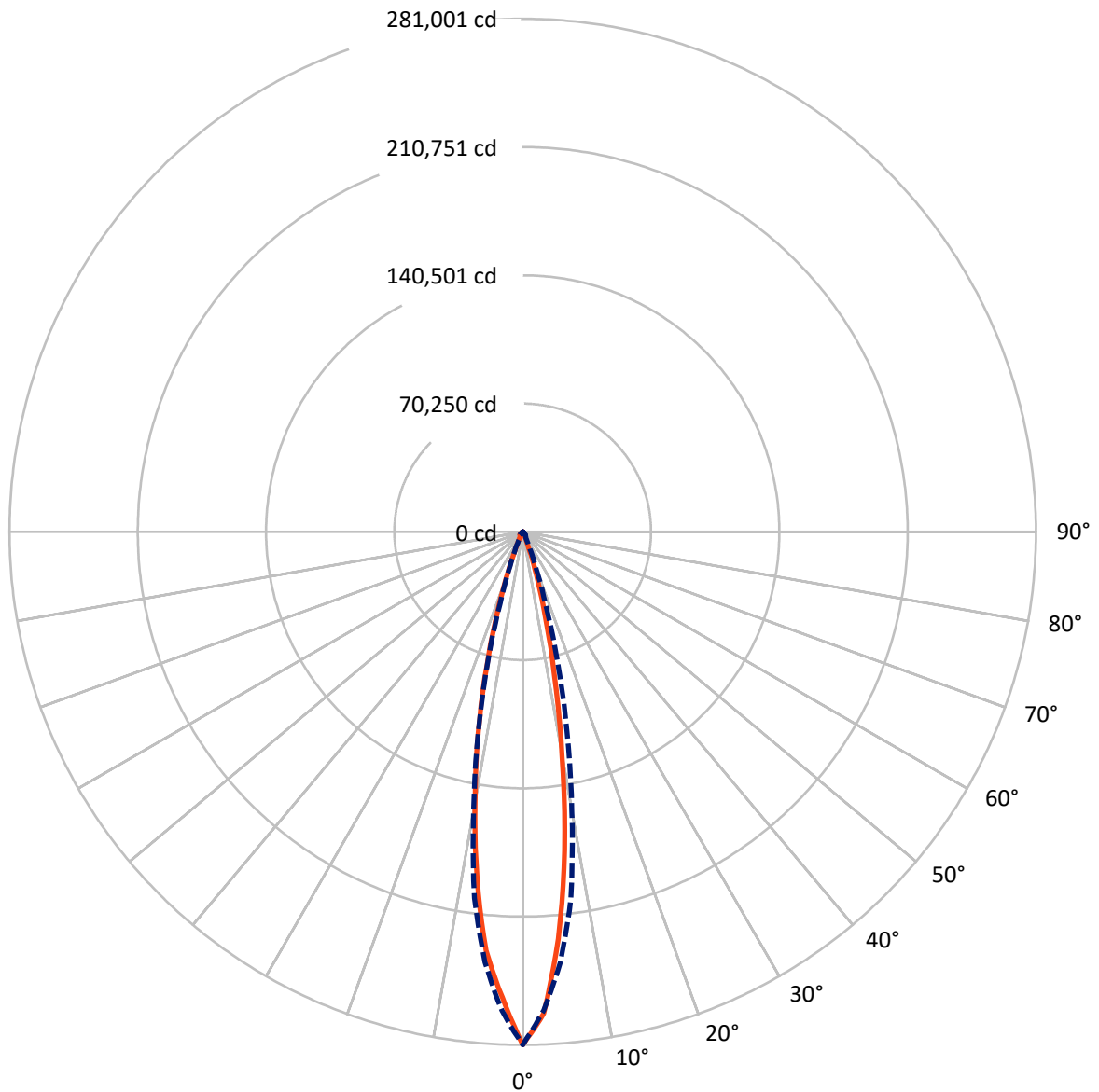
REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

### Lumen Table

90	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.1				
80	0.1	0.1	0.1	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.1	0.1
70	0.1	0.1	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.1
60		0.1	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.1
50	0.1	0.1	0.3	0.3	0.4	0.6	0.8	0.9	0.9	0.8	0.6	0.4	0.3	0.3	0.1
40		0.1	0.6	1.2	2.5	4.1	4.9	5.7	5.7	4.9	4.1	2.5	1.2	0.6	0.1
30	0.1	0.3	1.8	6.1	16.1	23.7	41.5	91.4	91.4	41.5	23.7	16.1	6.1	1.8	0.3
20		0.6	4.1	15.7	37.0	72.3	449.6	1402.7	1402.7	449.6	72.3	37.0	15.7	4.1	0.6
10	0.2	1.1	7.0	29.1	60.4	194.7	1837.3	5472.5	5472.5	1837.3	194.7	60.4	29.1	7.0	1.1
0		1.9	9.1	34.1	67.7	195.4	1947.1	5705.6	5705.6	1947.1	195.4	67.7	34.1	9.1	1.9
-10	0.4	2.1	9.3	31.5	66.8	111.7	716.9	2069.0	2069.0	716.9	111.7	66.8	31.5	9.3	2.1
-20		2.0	7.8	18.8	47.5	69.9	109.2	213.7	213.7	109.2	69.9	47.5	18.8	7.8	2.0
-30	0.3	1.7	5.7	11.8	26.3	50.3	65.1	71.6	71.6	65.1	50.3	26.3	11.8	5.7	1.7
-40		1.1	4.0	8.7	14.9	24.6	42.7	57.7	57.7	42.7	24.6	14.9	8.7	4.0	1.1
-50	0.2	0.5	2.3	5.7	10.3	15.4	19.8	22.2	22.2	19.8	15.4	10.3	5.7	2.3	0.5
-60		0.2	0.8	2.7	5.5	8.9	12.5	14.7	14.7	12.5	8.9	5.5	2.7	0.8	0.2
-70	0.1	0.7	2.0	5.1	7.3	5.1	2.0	0.7	0.1						
-80		0.1	0.7	2.0	5.1	7.3	5.1	2.0	0.7	0.1					
-90	0.1	0.7	2.0	5.1	7.3	5.1	2.0	0.7	0.1						

REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

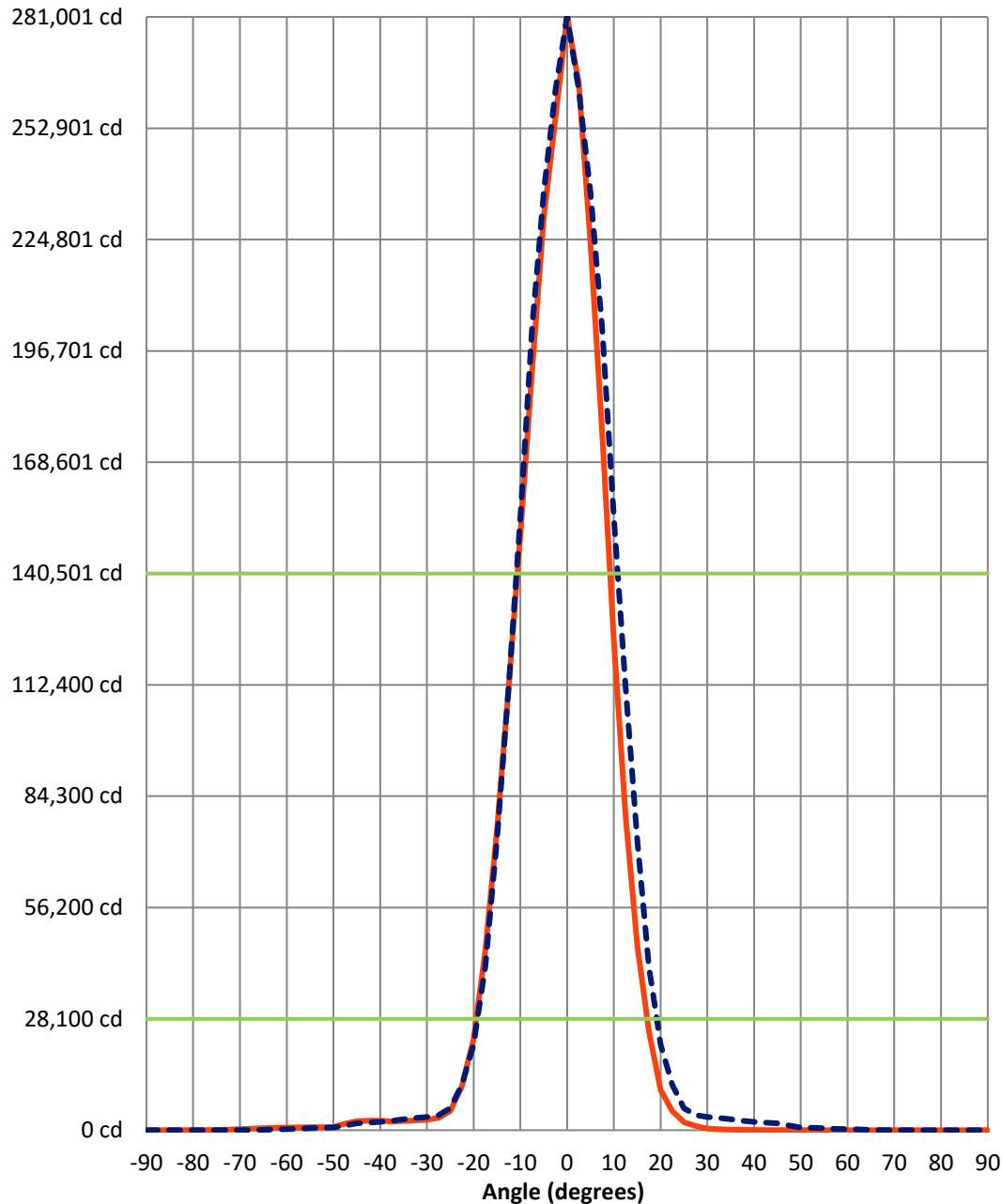
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

### Luminous Intensity Plot



**Beam:**  
 H Angle: 21.7°  
 V Angle: 19.8°  
 Lumens: 20109.5  
 Efficiency: 46.2%

**Field:**  
 H Angle: 38.4°  
 V Angle: 36.6°  
 Lumens: 37513.6  
 Efficiency: 86.2%

**Spill:**  
 Lumens: 5986  
 Efficiency: 13.8%

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



REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.5	4.5	4.5	4.8	5.1	5.4	5.7	5.7	5.7	5.7	5.7
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.3	4.1	4.0	3.9
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.4	4.3	4.3	4.3
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
70°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.6
67.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.7	4.6
65°	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.5	4.8	4.9	4.8
62.5°	4.5	4.5	4.5	4.5	4.5	4.6	4.6	4.7	5.0	5.1	4.8
60°	4.5	4.5	4.5	4.5	4.5	4.7	4.7	5.0	5.3	5.1	4.9
57.5°	4.5	4.5	4.5	4.5	4.6	4.9	5.0	5.4	5.5	5.2	4.9
55°	4.5	4.5	4.5	4.5	4.7	5.0	5.2	5.7	5.5	5.3	5.0
52.5°	4.5	4.5	4.6	4.5	4.9	5.1	5.4	5.7	5.6	5.3	5.1
50°	4.5	4.5	4.6	4.5	5.0	5.3	5.6	5.7	5.6	5.4	6.0
47.5°	4.5	4.5	4.6	4.5	5.1	5.4	5.7	5.7	5.7	5.5	6.8
45°	4.5	4.5	4.6	4.6	5.3	5.5	5.7	5.7	5.7	6.0	7.4
42.5°	4.5	4.5	4.7	4.7	5.4	5.6	5.7	5.7	5.8	6.4	8.3
40°	4.5	4.5	4.7	4.9	5.5	5.6	5.7	5.8	6.0	6.6	9.2
37.5°	4.5	4.5	4.8	5.0	5.6	5.7	5.7	5.9	6.5	7.3	9.9
35°	4.5	4.5	4.8	5.1	5.6	5.7	5.7	6.1	7.0	8.5	10.3
32.5°	4.5	4.5	4.9	5.2	5.7	5.7	5.7	6.2	7.5	9.7	11.3
30°	4.5	4.5	4.9	5.3	5.7	5.7	5.8	6.5	8.2	11.0	12.4
27.5°	4.5	4.5	5.0	5.4	5.7	5.7	6.0	6.9	9.0	12.3	13.7
25°	4.5	4.5	5.1	5.5	5.7	5.7	6.1	7.4	10.0	13.5	15.3
22.5°	4.5	4.5	5.1	5.5	5.7	5.7	6.2	7.9	11.1	14.7	18.2
20°	4.5	4.5	5.2	5.6	5.7	5.8	6.4	8.4	12.1	16.0	21.0
17.5°	4.5	4.5	5.3	5.6	5.7	5.9	6.6	9.0	13.1	17.3	23.6
15°	4.5	4.5	5.3	5.7	5.7	6.0	6.8	9.4	14.1	18.7	26.1
12.5°	4.5	4.5	5.4	5.7	5.7	6.1	7.0	9.9	15.1	20.1	28.3
10°	4.5	4.5	5.5	5.7	5.7	6.3	7.2	10.2	16.0	22.3	31.8
7.5°	4.5	4.5	5.5	5.7	5.7	6.4	7.4	10.6	17.0	24.7	38.2
5°	4.5	4.5	5.6	5.7	5.7	6.5	7.6	10.9	17.8	27.1	44.9
2.5°	4.5	4.5	5.6	5.7	5.7	6.7	7.7	11.1	18.6	29.5	51.5
0°	4.5	4.5	5.7	5.7	5.7	6.8	7.9	11.3	19.3	31.7	57.8
-2.5°	4.5	4.5	5.7	5.8	5.8	7.0	8.8	13.9	25.0	41.4	74.6
-5°	4.5	4.6	5.7	5.8	5.9	7.3	9.7	16.5	30.4	50.7	90.6
-7.5°	4.5	4.6	5.7	5.9	6.0	7.5	10.5	18.8	35.4	59.4	105.1
-10°	4.5	4.6	5.7	6.0	6.1	7.7	11.2	20.9	39.9	67.3	117.9
-12.5°	4.5	4.6	5.7	6.0	6.2	7.9	11.8	22.6	43.7	74.0	125.5
-15°	4.5	4.7	5.6	6.1	6.3	8.0	12.3	24.0	47.1	79.3	130.0
-17.5°	4.5	4.7	5.6	6.1	6.4	8.1	12.7	25.5	50.2	83.7	133.1
-20°	4.5	4.7	5.6	6.2	6.5	8.1	13.1	27.0	52.6	87.0	134.6



REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.5	4.7	5.6	6.2	6.5	8.2	13.5	27.7	54.0	89.3	134.5
-25°	4.5	4.7	5.6	6.2	6.6	8.3	13.7	27.7	54.5	90.4	132.8
-27.5°	4.5	4.7	5.6	6.2	6.7	8.4	13.6	26.8	54.0	90.5	133.4
-30°	4.5	4.8	5.5	6.2	6.8	8.4	13.2	25.1	52.9	89.7	132.7
-32.5°	4.5	4.8	5.5	6.2	6.9	8.4	12.4	24.1	50.9	87.5	130.4
-35°	4.5	4.8	5.5	6.1	7.0	8.3	12.1	23.2	47.6	83.9	126.6
-37.5°	4.5	4.8	5.5	6.1	7.1	8.3	12.0	21.8	42.9	78.9	116.9
-40°	4.5	4.8	5.5	6.0	7.2	8.4	11.7	19.9	36.9	72.5	106.2
-42.5°	4.5	4.8	5.5	5.9	7.1	8.4	11.4	17.4	32.7	62.5	94.5
-45°	4.5	4.8	5.5	5.9	7.0	8.4	11.0	15.5	29.3	51.6	81.9
-47.5°	4.5	4.8	5.5	5.8	6.9	8.3	10.4	14.8	25.1	40.4	69.3
-50°	4.5	4.8	5.5	5.8	6.8	8.2	10.2	14.0	20.0	34.4	56.1
-52.5°	4.5	4.8	5.5	5.8	6.6	8.0	9.9	13.1	17.4	28.0	43.1
-55°	4.5	4.8	5.5	5.8	6.5	7.8	9.5	12.1	16.0	21.0	35.1
-57.5°	4.5	4.8	5.5	5.8	6.3	7.5	9.1	11.5	14.5	18.1	26.5
-60°	4.5	4.8	5.5	5.8	6.1	7.2	8.6	10.8	13.1	16.4	19.8
-62.5°	4.5	4.7	5.5	5.8	6.1	6.9	8.2	10.0	12.2	14.7	17.8
-65°	4.5	4.7	5.4	5.8	6.0	6.6	7.7	9.2	11.3	13.5	15.8
-67.5°	4.5	4.7	5.3	5.7	5.9	6.4	7.3	8.7	10.3	12.4	14.4
-70°	4.5	4.7	5.3	5.7	5.9	6.2	6.8	8.1	9.7	11.3	13.1
-72.5°	4.5	4.7	5.2	5.6	5.8	6.1	6.5	7.6	9.0	10.5	12.0
-75°	4.5	4.6	5.1	5.5	5.7	5.9	6.3	7.2	8.4	9.7	11.1
-77.5°	4.5	4.6	5.0	5.4	5.6	5.8	6.0	6.8	7.9	9.0	10.3
-80°	4.5	4.6	4.9	5.3	5.5	5.7	5.7	6.5	7.3	8.3	9.4
-82.5°	4.5	4.6	4.8	5.1	5.4	5.6	5.7	6.2	6.8	7.6	8.5
-85°	4.5	4.6	4.7	5.0	5.3	5.5	5.7	6.0	6.4	6.9	7.5
-87.5°	4.5	4.5	4.6	4.9	5.2	5.5	5.7	5.9	6.1	6.3	6.6
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.2	4.0	3.7	3.4





REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	5.7	5.7	5.7	5.7	6.0	6.3	6.5	6.8	7.1	7.4	7.6
87.5°	3.8	3.7	3.5	3.4	3.4	3.4	3.4	3.4	3.1	2.9	2.6
85°	4.2	4.0	3.7	3.4	3.4	3.4	3.4	3.4	3.1	2.9	2.6
82.5°	4.2	4.0	3.7	3.4	3.4	3.4	3.4	3.4	3.2	2.9	2.6
80°	4.3	4.0	3.7	3.4	3.4	3.4	3.4	3.4	3.2	3.0	2.8
77.5°	4.3	4.0	3.7	3.5	3.4	3.6	3.8	4.0	3.9	3.8	3.7
75°	4.3	4.0	3.9	3.9	4.1	4.3	4.5	4.5	4.3	4.1	3.8
72.5°	4.4	4.3	4.3	4.5	4.5	4.5	4.5	4.5	5.1	5.8	6.4
70°	4.5	4.5	4.5	4.5	4.5	4.8	6.0	7.5	9.1	10.4	11.9
67.5°	4.5	4.5	4.5	4.6	5.4	6.8	8.6	13.0	18.2	19.8	19.8
65°	4.5	4.5	4.8	5.5	6.7	10.2	15.1	21.2	25.7	25.1	23.4
62.5°	4.5	4.7	5.3	6.9	10.1	14.7	19.5	23.9	28.3	27.5	23.9
60°	4.6	4.8	6.7	9.9	13.4	17.0	21.5	24.4	27.3	28.1	22.2
57.5°	4.7	5.8	9.0	12.4	15.5	18.2	19.9	22.4	24.1	24.4	18.3
55°	5.3	7.7	11.1	14.4	16.6	15.9	17.1	18.7	19.4	17.9	12.9
52.5°	6.8	9.4	12.8	15.5	15.8	14.6	14.3	15.0	13.9	11.8	10.3
50°	8.0	11.0	14.3	15.8	15.5	13.9	11.9	11.6	11.2	10.4	9.4
47.5°	9.3	12.5	15.4	16.4	15.3	13.8	11.4	11.1	11.2	11.9	11.2
45°	10.5	13.4	16.4	16.5	15.7	14.6	13.5	12.4	14.6	15.3	15.2
42.5°	11.5	14.0	16.6	16.9	17.3	17.1	16.7	18.0	19.3	20.5	20.8
40°	11.9	14.4	17.5	19.7	19.7	20.6	23.0	25.1	25.2	26.7	27.6
37.5°	12.1	15.8	20.0	25.0	23.5	26.3	30.2	36.1	36.9	33.5	38.3
35°	12.1	17.8	26.7	32.5	31.8	33.7	43.0	51.6	55.5	49.9	57.6
32.5°	13.3	20.3	35.4	41.6	47.3	49.4	58.5	75.6	85.2	88.8	95.2
30°	16.1	28.3	45.3	52.0	68.1	78.9	86.4	106.9	124.4	177.6	217.1
27.5°	19.7	38.0	55.2	70.6	94.3	112.9	129.0	150.1	214.5	311.4	412.0
25°	23.1	51.1	66.0	94.7	126.9	152.0	174.1	204.0	338.9	537.4	622.1
22.5°	30.1	66.2	83.3	121.8	162.5	192.1	224.3	305.0	487.3	785.6	820.5
20°	41.5	80.6	106.8	152.2	201.9	232.4	275.1	411.2	655.3	883.2	977.7
17.5°	53.7	96.4	132.7	188.0	248.3	282.9	332.8	513.4	800.1	1003.0	1129.7
15°	66.5	113.3	157.5	227.4	297.5	345.2	448.3	653.8	914.4	1143.3	1328.1
12.5°	79.5	130.7	181.2	269.0	349.0	406.7	588.3	867.9	1106.0	1320.3	1571.2
10°	92.3	148.5	203.6	311.9	401.8	467.0	742.4	1085.5	1319.3	1528.9	1786.1
7.5°	117.9	172.3	227.2	354.6	455.0	525.9	903.5	1301.8	1514.9	1711.7	1964.0
5°	145.9	201.7	263.6	405.6	508.2	580.1	1050.3	1510.9	1695.3	1872.7	2119.2
2.5°	173.1	229.6	298.7	454.4	559.1	627.1	1125.5	1625.7	1810.0	1996.2	2253.2
0°	198.4	256.2	332.2	498.9	606.6	671.2	1180.3	1722.2	1905.9	2099.8	2370.7
-2.5°	219.5	283.3	367.5	520.0	619.7	682.5	1162.2	1721.3	1941.6	2157.0	2437.3
-5°	237.1	308.6	400.1	537.5	630.3	691.7	1126.5	1694.1	1971.1	2202.8	2487.6
-7.5°	250.9	331.9	429.4	551.1	636.8	696.3	1110.8	1705.4	2023.9	2243.0	2520.5
-10°	258.4	341.1	431.6	550.5	638.0	697.4	1076.2	1682.1	2067.6	2278.8	2534.4
-12.5°	248.3	337.3	426.0	544.9	638.4	697.0	1009.4	1620.3	2103.4	2312.9	2521.7
-15°	237.2	331.5	416.8	533.7	638.5	695.3	907.4	1517.4	2083.1	2251.9	2468.9
-17.5°	225.5	323.7	404.0	516.7	638.7	692.5	762.4	1296.6	1879.8	2122.8	2383.6
-20°	213.8	313.9	387.3	493.7	635.3	674.0	706.4	1072.5	1583.5	1958.6	2222.2



REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	202.7	302.2	370.3	471.6	586.1	642.0	672.8	855.6	1278.4	1759.1	1981.0
-25°	196.7	284.8	355.6	437.9	534.7	608.6	635.2	673.1	1009.0	1443.7	1760.9
-27.5°	193.6	269.7	335.9	404.4	487.1	568.7	597.4	630.4	801.4	1135.0	1529.8
-30°	188.5	250.3	315.1	373.8	447.7	517.5	559.4	597.1	643.6	894.3	1206.5
-32.5°	177.2	230.3	292.5	349.8	411.0	472.9	531.8	573.0	610.9	678.8	925.8
-35°	163.9	213.3	269.0	324.9	376.6	436.9	498.2	552.0	582.7	614.3	723.2
-37.5°	152.8	195.3	245.1	299.0	348.8	403.4	462.9	519.8	562.2	591.1	632.4
-40°	140.9	176.4	223.4	272.5	321.2	370.6	425.3	480.7	533.5	577.7	611.0
-42.5°	128.1	162.2	201.7	245.8	292.4	338.9	386.6	439.3	494.9	552.4	595.6
-45°	114.1	147.3	180.3	221.4	262.8	306.0	350.4	396.9	453.2	508.3	563.0
-47.5°	99.1	131.3	163.1	196.7	234.8	273.4	313.1	360.5	410.0	462.0	513.4
-50°	83.4	113.5	145.4	176.0	208.5	242.6	277.9	324.6	371.8	416.9	462.9
-52.5°	68.4	94.6	125.2	156.1	184.9	214.8	248.8	289.8	333.9	377.5	418.6
-55°	52.8	77.1	103.3	133.2	162.8	189.6	221.5	257.9	295.2	336.5	376.3
-57.5°	40.8	59.3	82.3	107.8	136.5	165.9	196.4	227.0	261.0	296.1	330.3
-60°	30.3	43.9	61.5	83.5	107.3	136.1	169.4	199.7	228.6	257.2	288.5
-62.5°	21.0	31.6	44.1	59.4	80.1	103.7	132.3	163.7	197.3	222.7	247.7
-65°	18.8	21.7	30.3	41.7	53.2	72.8	95.5	120.3	148.7	174.7	201.8
-67.5°	16.5	19.0	21.8	26.3	36.5	47.4	59.0	79.1	100.7	119.3	138.6
-70°	14.9	16.5	18.7	21.2	23.8	28.2	37.7	47.8	57.8	68.7	84.2
-72.5°	13.5	14.9	16.3	17.7	19.9	22.1	24.2	26.3	32.0	39.9	47.1
-75°	12.2	13.3	14.6	15.9	17.1	18.3	19.8	21.7	23.4	25.3	27.3
-77.5°	11.0	11.8	12.8	13.9	14.8	15.6	16.5	17.6	18.7	19.8	20.9
-80°	9.8	10.2	10.7	11.5	12.3	13.0	13.6	14.1	14.7	15.6	16.5
-82.5°	8.8	9.0	9.3	9.6	10.0	10.5	11.1	11.7	12.1	12.5	12.9
-85°	7.7	7.9	8.1	8.2	8.5	8.7	9.0	9.3	9.5	9.7	9.9
-87.5°	6.7	6.8	6.9	7.0	7.1	7.3	7.5	7.6	7.7	7.8	7.8
-90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.1	2.9	2.6



REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	7.9	7.9	7.9	7.9	7.9	9.6	11.3	13.0	14.7	17.2	19.8
87.5°	2.3	2.3	2.2	2.2	2.2	1.9	1.7	1.4	1.1	0.8	0.6
85°	2.3	2.3	2.3	2.3	2.3	2.0	1.7	1.4	1.1	1.1	1.1
82.5°	2.3	2.3	2.3	2.3	2.3	2.0	1.7	1.4	1.1	1.1	1.1
80°	2.6	2.6	2.6	2.5	2.3	2.0	1.7	1.4	1.1	1.1	1.1
77.5°	3.5	3.2	2.9	2.6	2.4	2.2	2.1	2.1	2.1	1.9	1.7
75°	3.5	3.4	3.5	3.4	3.0	2.8	2.7	2.5	2.3	2.3	2.2
72.5°	6.8	6.8	6.4	6.0	5.4	5.1	5.0	4.6	4.2	3.9	3.8
70°	12.4	12.2	11.7	10.7	9.2	7.9	7.2	6.4	5.7	5.4	5.5
67.5°	18.0	16.2	14.7	12.9	10.7	9.1	8.2	7.2	6.2	5.7	5.7
65°	20.9	17.0	14.5	12.6	11.2	9.6	8.1	6.7	5.5	4.9	5.1
62.5°	19.8	14.8	11.7	9.9	8.6	7.7	6.5	5.6	4.9	4.5	4.6
60°	16.5	11.1	8.3	7.4	6.6	5.8	5.4	4.9	4.3	3.8	3.9
57.5°	12.8	8.8	6.7	6.4	6.1	5.8	5.3	4.8	4.4	4.1	4.3
55°	9.6	7.9	6.8	6.9	6.8	6.2	5.6	5.5	5.4	5.3	5.4
52.5°	8.4	8.3	8.6	8.5	7.7	7.1	6.7	6.7	6.8	7.0	7.3
50°	9.5	9.8	9.7	8.9	8.7	8.4	7.9	8.4	9.1	9.3	9.5
47.5°	11.3	11.5	11.6	10.9	11.0	11.9	12.1	12.4	13.7	14.6	15.5
45°	14.5	15.8	16.1	16.5	16.8	18.6	19.5	19.9	23.4	25.1	25.3
42.5°	20.9	22.9	24.4	26.9	26.6	30.8	36.3	39.2	39.0	37.9	37.9
40°	30.6	34.0	41.5	45.5	49.9	54.7	55.3	49.2	49.3	55.5	55.1
37.5°	47.3	58.9	69.5	78.9	81.2	78.3	79.4	84.0	89.5	90.0	92.7
35°	79.8	103.3	108.7	115.9	123.8	116.3	115.4	122.8	120.2	133.0	142.2
32.5°	137.9	171.3	181.4	190.1	212.1	199.4	164.2	215.4	203.9	218.1	239.9
30°	219.3	285.0	329.1	342.3	347.8	349.3	382.4	411.8	435.0	466.0	509.9
27.5°	415.4	459.0	532.3	573.4	521.6	543.0	627.9	643.4	730.9	826.1	904.2
25°	631.8	680.6	811.1	827.5	784.2	863.7	945.9	963.0	1117.3	1229.4	1497.6
22.5°	827.3	909.1	1048.8	1088.4	1124.5	1219.0	1314.5	1428.3	1776.1	2207.4	2990.0
20°	992.7	1084.0	1220.6	1330.9	1420.9	1541.5	1652.7	2041.4	2790.5	4429.0	6211.2
17.5°	1193.0	1249.6	1418.5	1565.9	1707.0	1879.7	2371.3	3353.2	5521.9	9091.9	12475.5
15°	1463.0	1575.5	1680.2	1839.8	2103.3	2605.8	3690.4	6888.6	11425.7	17652.8	25365.9
12.5°	1774.3	1929.4	2074.5	2210.0	2588.0	3773.1	7234.3	12780.3	20407.2	30410.3	45547.9
10°	2052.2	2289.1	2467.4	2703.6	3435.8	5740.6	11083.6	18924.2	32326.1	50000.8	69755.4
7.5°	2245.2	2526.7	2767.2	3118.4	4312.3	8216.9	15613.4	27823.5	46873.8	70689.4	97337.8
5°	2428.8	2746.3	2982.3	3414.2	4891.8	9937.0	19046.9	35241.4	61112.8	92581.8	126795.6
2.5°	2602.2	2940.1	3172.2	3679.3	5257.7	10721.1	20485.0	39852.9	70323.1	107598.3	148232.5
0°	2763.0	3082.7	3325.4	3803.8	5566.8	11473.8	21708.4	41339.8	73434.8	112019.5	154758.3
-2.5°	2733.0	2970.7	3239.3	3718.9	5272.7	10666.7	20282.6	39593.4	69781.6	106741.7	146054.2
-5°	2722.5	2915.2	3157.8	3592.4	4909.4	9216.8	18014.1	35650.3	63796.0	97104.3	133720.4
-7.5°	2730.5	2883.6	3073.2	3432.7	4470.7	7792.6	15662.5	30904.4	54152.0	82353.3	115419.0
-10°	2747.7	2866.1	3058.3	3374.5	4101.1	6228.5	11853.2	23810.5	42577.3	65007.8	90772.8
-12.5°	2777.3	2936.8	3129.7	3344.6	3729.7	4961.1	9322.2	18483.4	31480.3	47238.8	66843.7
-15°	2767.1	2972.8	3190.7	3323.4	3533.1	4218.4	6046.8	12204.4	21781.7	32233.1	44097.7
-17.5°	2692.6	2938.8	3034.5	3137.5	3265.1	3602.7	4623.2	7360.6	12814.4	19681.4	26356.6
-20°	2519.6	2644.1	2763.9	2886.8	3028.0	3214.4	3531.8	4598.1	6195.1	10091.8	13349.4



REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2194.8	2314.7	2418.5	2617.8	2760.3	2897.2	3072.1	3302.8	3917.1	4881.9	6485.5
-25°	1916.2	1990.1	2136.1	2368.8	2522.0	2604.0	2713.6	2801.2	3011.7	3235.8	3789.7
-27.5°	1693.5	1804.2	1984.2	2188.0	2334.9	2400.8	2458.5	2510.0	2642.2	2733.8	2891.1
-30°	1517.4	1696.6	1865.2	2051.8	2186.8	2265.2	2289.8	2364.0	2450.2	2515.6	2579.3
-32.5°	1264.7	1580.0	1733.4	1887.8	2040.4	2136.9	2203.1	2261.6	2342.5	2392.7	2417.7
-35°	992.5	1315.4	1617.3	1721.0	1831.9	1970.5	2083.3	2142.8	2196.1	2244.5	2275.0
-37.5°	749.0	1013.6	1294.6	1547.4	1666.1	1769.9	1933.9	2033.3	2081.5	2153.7	2194.8
-40°	649.6	724.7	964.5	1201.2	1414.2	1650.4	1810.0	1963.2	2114.6	2207.4	2267.6
-42.5°	627.3	658.0	686.4	852.3	1065.3	1279.3	1514.6	1774.4	1991.6	2155.2	2307.2
-45°	609.4	632.7	655.5	681.5	706.5	870.2	1054.1	1247.8	1497.7	1739.7	1948.7
-47.5°	562.9	607.0	632.8	652.4	672.7	695.4	716.2	760.2	928.2	1107.0	1276.7
-50°	510.1	553.8	593.0	629.3	655.5	673.1	686.2	703.4	723.5	741.3	757.7
-52.5°	458.1	500.5	540.4	579.7	616.7	650.7	682.1	702.0	717.2	730.6	738.9
-55°	414.5	451.0	486.7	525.7	563.7	599.8	634.0	664.6	693.5	720.5	735.9
-57.5°	366.7	402.7	438.4	474.4	509.1	542.3	575.2	607.3	637.8	665.6	682.4
-60°	319.3	349.6	385.1	422.1	456.7	488.8	521.6	552.7	581.5	606.0	621.0
-62.5°	274.9	303.2	332.7	365.5	401.1	435.8	464.9	494.4	523.8	549.1	566.4
-65°	227.9	251.6	275.5	301.2	328.3	356.8	386.0	414.7	442.7	465.6	482.0
-67.5°	161.2	184.7	207.6	230.5	251.4	272.3	294.7	317.3	339.7	358.1	372.6
-70°	99.4	114.1	127.9	142.8	160.2	178.5	197.1	214.5	230.6	242.6	251.4
-72.5°	53.6	59.6	66.6	77.8	88.1	99.0	110.3	121.1	131.2	138.8	144.4
-75°	29.4	32.0	36.6	41.0	45.1	49.9	54.8	59.4	63.7	68.0	71.9
-77.5°	22.2	23.6	24.8	25.9	26.8	28.5	30.5	32.4	34.4	36.9	39.6
-80°	17.4	18.1	18.7	19.4	20.1	21.3	22.5	23.7	24.9	26.1	27.3
-82.5°	13.4	13.7	14.0	14.3	14.6	15.4	16.1	16.9	17.6	18.9	20.1
-85°	10.1	10.3	10.5	10.7	10.9	11.5	12.1	12.7	13.4	14.3	15.2
-87.5°	7.9	8.2	8.4	8.7	9.0	9.4	9.7	10.1	10.4	11.2	12.0
-90°	2.3	2.0	1.7	1.4	1.1	1.1	1.1	1.1	1.1	0.8	0.6



REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	22.3	24.9	26.6	28.3	26.6	24.9	22.3	19.8	17.2	14.7	13.0
87.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.4
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
77.5°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.1	2.1
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.5
72.5°	3.6	3.4	3.4	3.4	3.4	3.4	3.6	3.8	3.9	4.2	4.6
70°	5.6	5.6	5.7	5.7	5.7	5.6	5.6	5.5	5.4	5.7	6.4
67.5°	5.7	5.7	5.2	4.5	5.2	5.7	5.7	5.7	5.7	6.2	7.2
65°	5.3	5.6	5.2	4.5	5.2	5.6	5.3	5.1	4.9	5.5	6.7
62.5°	4.6	4.6	4.5	4.5	4.5	4.6	4.6	4.6	4.5	4.9	5.6
60°	4.1	4.4	4.5	4.5	4.5	4.4	4.1	3.9	3.8	4.3	4.9
57.5°	4.4	4.5	5.0	5.7	5.0	4.5	4.4	4.3	4.1	4.4	4.8
55°	5.5	5.6	5.7	5.7	5.7	5.6	5.5	5.4	5.3	5.4	5.5
52.5°	7.6	7.8	7.9	7.9	7.9	7.8	7.6	7.3	7.0	6.8	6.7
50°	9.8	10.0	9.8	9.1	9.8	10.0	9.8	9.5	9.3	9.1	8.4
47.5°	16.2	16.6	16.5	15.9	16.5	16.6	16.2	15.5	14.6	13.7	12.4
45°	26.0	26.0	25.9	26.1	25.9	26.0	26.0	25.3	25.1	23.4	19.9
42.5°	38.9	39.2	39.4	39.7	39.4	39.2	38.9	37.9	37.9	39.0	39.2
40°	56.1	56.4	55.8	54.4	55.8	56.4	56.1	55.1	55.5	49.3	49.2
37.5°	97.4	99.6	99.0	97.5	99.0	99.6	97.4	92.7	90.0	89.5	84.0
35°	145.5	144.2	140.3	140.6	140.3	144.2	145.5	142.2	133.0	120.2	122.8
32.5°	227.2	235.4	237.9	239.2	237.9	235.4	227.2	239.9	218.1	203.9	215.4
30°	540.9	524.5	452.0	429.7	452.0	524.5	540.9	509.9	466.0	435.0	411.8
27.5°	960.9	1012.6	1060.0	1064.6	1060.0	1012.6	960.9	904.2	826.1	730.9	643.4
25°	1774.6	1948.9	2022.4	2012.5	2022.4	1948.9	1774.6	1497.6	1229.4	1117.3	963.0
22.5°	3915.4	4510.3	4820.3	4831.0	4820.3	4510.3	3915.4	2990.0	2207.4	1776.1	1428.3
20°	8543.2	9979.1	10341.7	10233.5	10341.7	9979.1	8543.2	6211.2	4429.0	2790.5	2041.4
17.5°	17615.2	21862.9	24762.8	24962.4	24762.8	21862.9	17615.2	12475.5	9091.9	5521.9	3353.2
15°	34284.5	42092.5	46141.6	46829.5	46141.6	42092.5	34284.5	25365.9	17652.8	11425.7	6888.6
12.5°	59892.4	71776.9	78389.3	79520.9	78389.3	71776.9	59892.4	45547.9	30410.3	20407.2	12780.3
10°	91354.9	107930.8	118708.8	123573.8	118708.8	107930.8	91354.9	69755.4	50000.8	32326.1	18924.2
7.5°	123637.8	149751.9	171078.2	175913.5	171078.2	149751.9	123637.8	97337.8	70689.4	46873.8	27823.5
5°	163576.1	198591.0	219071.1	223800.8	219071.1	198591.0	163576.1	126795.6	92581.8	61112.8	35241.4
2.5°	193192.7	230839.6	252305.0	264101.0	252305.0	230839.6	193192.7	148232.5	107598.3	70323.1	39852.9
0°	202383.8	236639.7	262445.7	281001.0	262445.7	236639.7	202383.8	154758.3	112019.5	73434.8	41339.8
-2.5°	189943.4	226265.5	244990.5	255422.4	244990.5	226265.5	189943.4	146054.2	106741.7	69781.6	39593.4
-5°	170152.2	203540.3	223961.1	230256.6	223961.1	203540.3	170152.2	133720.4	97104.3	63796.0	35650.3
-7.5°	144222.9	168605.4	183898.6	191610.0	183898.6	168605.4	144222.9	115419.0	82353.3	54152.0	30904.4
-10°	116156.8	134661.9	146069.1	150335.5	146069.1	134661.9	116156.8	90772.8	65007.8	42577.3	23810.5
-12.5°	85077.5	99816.5	108580.1	111961.1	108580.1	99816.5	85077.5	66843.7	47238.8	31480.3	18483.4
-15°	56155.1	66779.8	73520.7	75874.6	73520.7	66779.8	56155.1	44097.7	32233.1	21781.7	12204.4
-17.5°	34035.5	39900.3	44264.0	45364.7	44264.0	39900.3	34035.5	26356.6	19681.4	12814.4	7360.6
-20°	18011.0	20650.2	22124.1	23121.1	22124.1	20650.2	18011.0	13349.4	10091.8	6195.1	4598.1



REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	8538.6	9975.9	10638.3	11143.9	10638.3	9975.9	8538.6	6485.5	4881.9	3917.1	3302.8
-25°	4273.2	4570.5	4700.0	4880.9	4700.0	4570.5	4273.2	3789.7	3235.8	3011.7	2801.2
-27.5°	2997.3	3067.1	3094.6	3116.8	3094.6	3067.1	2997.3	2891.1	2733.8	2642.2	2510.0
-30°	2612.0	2623.5	2621.8	2620.2	2621.8	2623.5	2612.0	2579.3	2515.6	2450.2	2364.0
-32.5°	2444.9	2457.1	2456.2	2454.6	2456.2	2457.1	2444.9	2417.7	2392.7	2342.5	2261.6
-35°	2294.6	2310.5	2318.4	2322.0	2318.4	2310.5	2294.6	2275.0	2244.5	2196.1	2142.8
-37.5°	2217.7	2221.1	2212.1	2201.8	2212.1	2221.1	2217.7	2194.8	2153.7	2081.5	2033.3
-40°	2297.2	2351.0	2405.2	2421.7	2405.2	2351.0	2297.2	2267.6	2207.4	2114.6	1963.2
-42.5°	2357.3	2391.9	2407.5	2402.5	2407.5	2391.9	2357.3	2307.2	2155.2	1991.6	1774.4
-45°	2086.8	2194.1	2257.7	2273.2	2257.7	2194.1	2086.8	1948.7	1739.7	1497.7	1247.8
-47.5°	1419.1	1539.3	1615.0	1639.4	1615.0	1539.3	1419.1	1276.7	1107.0	928.2	760.2
-50°	773.5	788.7	793.7	789.1	793.7	788.7	773.5	757.7	741.3	723.5	703.4
-52.5°	747.1	756.0	761.8	765.3	761.8	756.0	747.1	738.9	730.6	717.2	702.0
-55°	749.1	760.6	767.0	769.8	767.0	760.6	749.1	735.9	720.5	693.5	664.6
-57.5°	697.3	710.3	716.5	718.8	716.5	710.3	697.3	682.4	665.6	637.8	607.3
-60°	634.7	647.0	651.8	653.1	651.8	647.0	634.7	621.0	606.0	581.5	552.7
-62.5°	582.4	597.0	603.1	605.4	603.1	597.0	582.4	566.4	549.1	523.8	494.4
-65°	496.5	508.9	513.1	513.6	513.1	508.9	496.5	482.0	465.6	442.7	414.7
-67.5°	385.6	396.8	400.8	401.4	400.8	396.8	385.6	372.6	358.1	339.7	317.3
-70°	258.5	263.9	266.1	266.4	266.1	263.9	258.5	251.4	242.6	230.6	214.5
-72.5°	148.8	152.1	153.2	153.1	153.2	152.1	148.8	144.4	138.8	131.2	121.1
-75°	75.4	78.5	79.2	79.4	79.2	78.5	75.4	71.9	68.0	63.7	59.4
-77.5°	42.3	45.0	45.3	45.4	45.3	45.0	42.3	39.6	36.9	34.4	32.4
-80°	28.4	29.4	29.5	29.5	29.5	29.4	28.4	27.3	26.1	24.9	23.7
-82.5°	21.4	22.6	22.7	22.7	22.7	22.6	21.4	20.1	18.9	17.6	16.9
-85°	16.1	17.0	17.5	18.1	17.5	17.0	16.1	15.2	14.3	13.4	12.7
-87.5°	12.8	13.6	14.2	14.7	14.2	13.6	12.8	12.0	11.2	10.4	10.1
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.1



REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	11.3	9.6	7.9	7.9	7.9	7.9	7.9	7.6	7.4	7.1	6.8
87.5°	1.7	1.9	2.2	2.2	2.2	2.3	2.3	2.6	2.9	3.1	3.4
85°	1.7	2.0	2.3	2.3	2.3	2.3	2.3	2.6	2.9	3.1	3.4
82.5°	1.7	2.0	2.3	2.3	2.3	2.3	2.3	2.6	2.9	3.2	3.4
80°	1.7	2.0	2.3	2.5	2.6	2.6	2.6	2.8	3.0	3.2	3.4
77.5°	2.1	2.2	2.4	2.6	2.9	3.2	3.5	3.7	3.8	3.9	4.0
75°	2.7	2.8	3.0	3.4	3.5	3.4	3.5	3.8	4.1	4.3	4.5
72.5°	5.0	5.1	5.4	6.0	6.4	6.8	6.8	6.4	5.8	5.1	4.5
70°	7.2	7.9	9.2	10.7	11.7	12.2	12.4	11.9	10.4	9.1	7.5
67.5°	8.2	9.1	10.7	12.9	14.7	16.2	18.0	19.8	19.8	18.2	13.0
65°	8.1	9.6	11.2	12.6	14.5	17.0	20.9	23.4	25.1	25.7	21.2
62.5°	6.5	7.7	8.6	9.9	11.7	14.8	19.8	23.9	27.5	28.3	23.9
60°	5.4	5.8	6.6	7.4	8.3	11.1	16.5	22.2	28.1	27.3	24.4
57.5°	5.3	5.8	6.1	6.4	6.7	8.8	12.8	18.3	24.4	24.1	22.4
55°	5.6	6.2	6.8	6.9	6.8	7.9	9.6	12.9	17.9	19.4	18.7
52.5°	6.7	7.1	7.7	8.5	8.6	8.3	8.4	10.3	11.8	13.9	15.0
50°	7.9	8.4	8.7	8.9	9.7	9.8	9.5	9.4	10.4	11.2	11.6
47.5°	12.1	11.9	11.0	10.9	11.6	11.5	11.3	11.2	11.9	11.2	11.1
45°	19.5	18.6	16.8	16.5	16.1	15.8	14.5	15.2	15.3	14.6	12.4
42.5°	36.3	30.8	26.6	26.9	24.4	22.9	20.9	20.8	20.5	19.3	18.0
40°	55.3	54.7	49.9	45.5	41.5	34.0	30.6	27.6	26.7	25.2	25.1
37.5°	79.4	78.3	81.2	78.9	69.5	58.9	47.3	38.3	33.5	36.9	36.1
35°	115.4	116.3	123.8	115.9	108.7	103.3	79.8	57.6	49.9	55.5	51.6
32.5°	164.2	199.4	212.1	190.1	181.4	171.3	137.9	95.2	88.8	85.2	75.6
30°	382.4	349.3	347.8	342.3	329.1	285.0	219.3	217.1	177.6	124.4	106.9
27.5°	627.9	543.0	521.6	573.4	532.3	459.0	415.4	412.0	311.4	214.5	150.1
25°	945.9	863.7	784.2	827.5	811.1	680.6	631.8	622.1	537.4	338.9	204.0
22.5°	1314.5	1219.0	1124.5	1088.4	1048.8	909.1	827.3	820.5	785.6	487.3	305.0
20°	1652.7	1541.5	1420.9	1330.9	1220.6	1084.0	992.7	977.7	883.2	655.3	411.2
17.5°	2371.3	1879.7	1707.0	1565.9	1418.5	1249.6	1193.0	1129.7	1003.0	800.1	513.4
15°	3690.4	2605.8	2103.3	1839.8	1680.2	1575.5	1463.0	1328.1	1143.3	914.4	653.8
12.5°	7234.3	3773.1	2588.0	2210.0	2074.5	1929.4	1774.3	1571.2	1320.3	1106.0	867.9
10°	11083.6	5740.6	3435.8	2703.6	2467.4	2289.1	2052.2	1786.1	1528.9	1319.3	1085.5
7.5°	15613.4	8216.9	4312.3	3118.4	2767.2	2526.7	2245.2	1964.0	1711.7	1514.9	1301.8
5°	19046.9	9937.0	4891.8	3414.2	2982.3	2746.3	2428.8	2119.2	1872.7	1695.3	1510.9
2.5°	20485.0	10721.1	5257.7	3679.3	3172.2	2940.1	2602.2	2253.2	1996.2	1810.0	1625.7
0°	21708.4	11473.8	5566.8	3803.8	3325.4	3082.7	2763.0	2370.7	2099.8	1905.9	1722.2
-2.5°	20282.6	10666.7	5272.7	3718.9	3239.3	2970.7	2733.0	2437.3	2157.0	1941.6	1721.3
-5°	18014.1	9216.8	4909.4	3592.4	3157.8	2915.2	2722.5	2487.6	2202.8	1971.1	1694.1
-7.5°	15662.5	7792.6	4470.7	3432.7	3073.2	2883.6	2730.5	2520.5	2243.0	2023.9	1705.4
-10°	11853.2	6228.5	4101.1	3374.5	3058.3	2866.1	2747.7	2534.4	2278.8	2067.6	1682.1
-12.5°	9322.2	4961.1	3729.7	3344.6	3129.7	2936.8	2777.3	2521.7	2312.9	2103.4	1620.3
-15°	6046.8	4218.4	3533.1	3323.4	3190.7	2972.8	2767.1	2468.9	2251.9	2083.1	1517.4
-17.5°	4623.2	3602.7	3265.1	3137.5	3034.5	2938.8	2692.6	2383.6	2122.8	1879.8	1296.6
-20°	3531.8	3214.4	3028.0	2886.8	2763.9	2644.1	2519.6	2222.2	1958.6	1583.5	1072.5





REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3072.1	2897.2	2760.3	2617.8	2418.5	2314.7	2194.8	1981.0	1759.1	1278.4	855.6
-25°	2713.6	2604.0	2522.0	2368.8	2136.1	1990.1	1916.2	1760.9	1443.7	1009.0	673.1
-27.5°	2458.5	2400.8	2334.9	2188.0	1984.2	1804.2	1693.5	1529.8	1135.0	801.4	630.4
-30°	2289.8	2265.2	2186.8	2051.8	1865.2	1696.6	1517.4	1206.5	894.3	643.6	597.1
-32.5°	2203.1	2136.9	2040.4	1887.8	1733.4	1580.0	1264.7	925.8	678.8	610.9	573.0
-35°	2083.3	1970.5	1831.9	1721.0	1617.3	1315.4	992.5	723.2	614.3	582.7	552.0
-37.5°	1933.9	1769.9	1666.1	1547.4	1294.6	1013.6	749.0	632.4	591.1	562.2	519.8
-40°	1810.0	1650.4	1414.2	1201.2	964.5	724.7	649.6	611.0	577.7	533.5	480.7
-42.5°	1514.6	1279.3	1065.3	852.3	686.4	658.0	627.3	595.6	552.4	494.9	439.3
-45°	1054.1	870.2	706.5	681.5	655.5	632.7	609.4	563.0	508.3	453.2	396.9
-47.5°	716.2	695.4	672.7	652.4	632.8	607.0	562.9	513.4	462.0	410.0	360.5
-50°	686.2	673.1	655.5	629.3	593.0	553.8	510.1	462.9	416.9	371.8	324.6
-52.5°	682.1	650.7	616.7	579.7	540.4	500.5	458.1	418.6	377.5	333.9	289.8
-55°	634.0	599.8	563.7	525.7	486.7	451.0	414.5	376.3	336.5	295.2	257.9
-57.5°	575.2	542.3	509.1	474.4	438.4	402.7	366.7	330.3	296.1	261.0	227.0
-60°	521.6	488.8	456.7	422.1	385.1	349.6	319.3	288.5	257.2	228.6	199.7
-62.5°	464.9	435.8	401.1	365.5	332.7	303.2	274.9	247.7	222.7	197.3	163.7
-65°	386.0	356.8	328.3	301.2	275.5	251.6	227.9	201.8	174.7	148.7	120.3
-67.5°	294.7	272.3	251.4	230.5	207.6	184.7	161.2	138.6	119.3	100.7	79.1
-70°	197.1	178.5	160.2	142.8	127.9	114.1	99.4	84.2	68.7	57.8	47.8
-72.5°	110.3	99.0	88.1	77.8	66.6	59.6	53.6	47.1	39.9	32.0	26.3
-75°	54.8	49.9	45.1	41.0	36.6	32.0	29.4	27.3	25.3	23.4	21.7
-77.5°	30.5	28.5	26.8	25.9	24.8	23.6	22.2	20.9	19.8	18.7	17.6
-80°	22.5	21.3	20.1	19.4	18.7	18.1	17.4	16.5	15.6	14.7	14.1
-82.5°	16.1	15.4	14.6	14.3	14.0	13.7	13.4	12.9	12.5	12.1	11.7
-85°	12.1	11.5	10.9	10.7	10.5	10.3	10.1	9.9	9.7	9.5	9.3
-87.5°	9.7	9.4	9.0	8.7	8.4	8.2	7.9	7.8	7.8	7.7	7.6
-90°	1.1	1.1	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.1	3.4





REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	6.5	6.3	6.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
87.5°	3.4	3.4	3.4	3.4	3.5	3.7	3.8	3.9	4.0	4.1	4.3
85°	3.4	3.4	3.4	3.4	3.7	4.0	4.2	4.3	4.3	4.3	4.4
82.5°	3.4	3.4	3.4	3.4	3.7	4.0	4.2	4.5	4.5	4.5	4.5
80°	3.4	3.4	3.4	3.4	3.7	4.0	4.3	4.5	4.5	4.5	4.5
77.5°	3.8	3.6	3.4	3.5	3.7	4.0	4.3	4.5	4.5	4.5	4.5
75°	4.5	4.3	4.1	3.9	3.9	4.0	4.3	4.5	4.5	4.5	4.5
72.5°	4.5	4.5	4.5	4.5	4.3	4.3	4.4	4.5	4.5	4.5	4.5
70°	6.0	4.8	4.5	4.5	4.5	4.5	4.5	4.6	4.5	4.5	4.5
67.5°	8.6	6.8	5.4	4.6	4.5	4.5	4.5	4.6	4.7	4.5	4.5
65°	15.1	10.2	6.7	5.5	4.8	4.5	4.5	4.8	4.9	4.8	4.5
62.5°	19.5	14.7	10.1	6.9	5.3	4.7	4.5	4.8	5.1	5.0	4.7
60°	21.5	17.0	13.4	9.9	6.7	4.8	4.6	4.9	5.1	5.3	5.0
57.5°	19.9	18.2	15.5	12.4	9.0	5.8	4.7	4.9	5.2	5.5	5.4
55°	17.1	15.9	16.6	14.4	11.1	7.7	5.3	5.0	5.3	5.5	5.7
52.5°	14.3	14.6	15.8	15.5	12.8	9.4	6.8	5.1	5.3	5.6	5.7
50°	11.9	13.9	15.5	15.8	14.3	11.0	8.0	6.0	5.4	5.6	5.7
47.5°	11.4	13.8	15.3	16.4	15.4	12.5	9.3	6.8	5.5	5.7	5.7
45°	13.5	14.6	15.7	16.5	16.4	13.4	10.5	7.4	6.0	5.7	5.7
42.5°	16.7	17.1	17.3	16.9	16.6	14.0	11.5	8.3	6.4	5.8	5.7
40°	23.0	20.6	19.7	19.7	17.5	14.4	11.9	9.2	6.6	6.0	5.8
37.5°	30.2	26.3	23.5	25.0	20.0	15.8	12.1	9.9	7.3	6.5	5.9
35°	43.0	33.7	31.8	32.5	26.7	17.8	12.1	10.3	8.5	7.0	6.1
32.5°	58.5	49.4	47.3	41.6	35.4	20.3	13.3	11.3	9.7	7.5	6.2
30°	86.4	78.9	68.1	52.0	45.3	28.3	16.1	12.4	11.0	8.2	6.5
27.5°	129.0	112.9	94.3	70.6	55.2	38.0	19.7	13.7	12.3	9.0	6.9
25°	174.1	152.0	126.9	94.7	66.0	51.1	23.1	15.3	13.5	10.0	7.4
22.5°	224.3	192.1	162.5	121.8	83.3	66.2	30.1	18.2	14.7	11.1	7.9
20°	275.1	232.4	201.9	152.2	106.8	80.6	41.5	21.0	16.0	12.1	8.4
17.5°	332.8	282.9	248.3	188.0	132.7	96.4	53.7	23.6	17.3	13.1	9.0
15°	448.3	345.2	297.5	227.4	157.5	113.3	66.5	26.1	18.7	14.1	9.4
12.5°	588.3	406.7	349.0	269.0	181.2	130.7	79.5	28.3	20.1	15.1	9.9
10°	742.4	467.0	401.8	311.9	203.6	148.5	92.3	31.8	22.3	16.0	10.2
7.5°	903.5	525.9	455.0	354.6	227.2	172.3	117.9	38.2	24.7	17.0	10.6
5°	1050.3	580.1	508.2	405.6	263.6	201.7	145.9	44.9	27.1	17.8	10.9
2.5°	1125.5	627.1	559.1	454.4	298.7	229.6	173.1	51.5	29.5	18.6	11.1
0°	1180.3	671.2	606.6	498.9	332.2	256.2	198.4	57.8	31.7	19.3	11.3
-2.5°	1162.2	682.5	619.7	520.0	367.5	283.3	219.5	74.6	41.4	25.0	13.9
-5°	1126.5	691.7	630.3	537.5	400.1	308.6	237.1	90.6	50.7	30.4	16.5
-7.5°	1110.8	696.3	636.8	551.1	429.4	331.9	250.9	105.1	59.4	35.4	18.8
-10°	1076.2	697.4	638.0	550.5	431.6	341.1	258.4	117.9	67.3	39.9	20.9
-12.5°	1009.4	697.0	638.4	544.9	426.0	337.3	248.3	125.5	74.0	43.7	22.6
-15°	907.4	695.3	638.5	533.7	416.8	331.5	237.2	130.0	79.3	47.1	24.0
-17.5°	762.4	692.5	638.7	516.7	404.0	323.7	225.5	133.1	83.7	50.2	25.5
-20°	706.4	674.0	635.3	493.7	387.3	313.9	213.8	134.6	87.0	52.6	27.0



REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	672.8	642.0	586.1	471.6	370.3	302.2	202.7	134.5	89.3	54.0	27.7
-25°	635.2	608.6	534.7	437.9	355.6	284.8	196.7	132.8	90.4	54.5	27.7
-27.5°	597.4	568.7	487.1	404.4	335.9	269.7	193.6	133.4	90.5	54.0	26.8
-30°	559.4	517.5	447.7	373.8	315.1	250.3	188.5	132.7	89.7	52.9	25.1
-32.5°	531.8	472.9	411.0	349.8	292.5	230.3	177.2	130.4	87.5	50.9	24.1
-35°	498.2	436.9	376.6	324.9	269.0	213.3	163.9	126.6	83.9	47.6	23.2
-37.5°	462.9	403.4	348.8	299.0	245.1	195.3	152.8	116.9	78.9	42.9	21.8
-40°	425.3	370.6	321.2	272.5	223.4	176.4	140.9	106.2	72.5	36.9	19.9
-42.5°	386.6	338.9	292.4	245.8	201.7	162.2	128.1	94.5	62.5	32.7	17.4
-45°	350.4	306.0	262.8	221.4	180.3	147.3	114.1	81.9	51.6	29.3	15.5
-47.5°	313.1	273.4	234.8	196.7	163.1	131.3	99.1	69.3	40.4	25.1	14.8
-50°	277.9	242.6	208.5	176.0	145.4	113.5	83.4	56.1	34.4	20.0	14.0
-52.5°	248.8	214.8	184.9	156.1	125.2	94.6	68.4	43.1	28.0	17.4	13.1
-55°	221.5	189.6	162.8	133.2	103.3	77.1	52.8	35.1	21.0	16.0	12.1
-57.5°	196.4	165.9	136.5	107.8	82.3	59.3	40.8	26.5	18.1	14.5	11.5
-60°	169.4	136.1	107.3	83.5	61.5	43.9	30.3	19.8	16.4	13.1	10.8
-62.5°	132.3	103.7	80.1	59.4	44.1	31.6	21.0	17.8	14.7	12.2	10.0
-65°	95.5	72.8	53.2	41.7	30.3	21.7	18.8	15.8	13.5	11.3	9.2
-67.5°	59.0	47.4	36.5	26.3	21.8	19.0	16.5	14.4	12.4	10.3	8.7
-70°	37.7	28.2	23.8	21.2	18.7	16.5	14.9	13.1	11.3	9.7	8.1
-72.5°	24.2	22.1	19.9	17.7	16.3	14.9	13.5	12.0	10.5	9.0	7.6
-75°	19.8	18.3	17.1	15.9	14.6	13.3	12.2	11.1	9.7	8.4	7.2
-77.5°	16.5	15.6	14.8	13.9	12.8	11.8	11.0	10.3	9.0	7.9	6.8
-80°	13.6	13.0	12.3	11.5	10.7	10.2	9.8	9.4	8.3	7.3	6.5
-82.5°	11.1	10.5	10.0	9.6	9.3	9.0	8.8	8.5	7.6	6.8	6.2
-85°	9.0	8.7	8.5	8.2	8.1	7.9	7.7	7.5	6.9	6.4	6.0
-87.5°	7.5	7.3	7.1	7.0	6.9	6.8	6.7	6.6	6.3	6.1	5.9
-90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.7	4.0	4.2



REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.7	5.4	5.1	4.8	4.5	4.5	4.5
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
70°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
67.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
65°	4.6	4.5	4.5	4.5	4.5	4.5	4.5
62.5°	4.6	4.6	4.5	4.5	4.5	4.5	4.5
60°	4.7	4.7	4.5	4.5	4.5	4.5	4.5
57.5°	5.0	4.9	4.6	4.5	4.5	4.5	4.5
55°	5.2	5.0	4.7	4.5	4.5	4.5	4.5
52.5°	5.4	5.1	4.9	4.5	4.6	4.5	4.5
50°	5.6	5.3	5.0	4.5	4.6	4.5	4.5
47.5°	5.7	5.4	5.1	4.5	4.6	4.5	4.5
45°	5.7	5.5	5.3	4.6	4.6	4.5	4.5
42.5°	5.7	5.6	5.4	4.7	4.7	4.5	4.5
40°	5.7	5.6	5.5	4.9	4.7	4.5	4.5
37.5°	5.7	5.7	5.6	5.0	4.8	4.5	4.5
35°	5.7	5.7	5.6	5.1	4.8	4.5	4.5
32.5°	5.7	5.7	5.7	5.2	4.9	4.5	4.5
30°	5.8	5.7	5.7	5.3	4.9	4.5	4.5
27.5°	6.0	5.7	5.7	5.4	5.0	4.5	4.5
25°	6.1	5.7	5.7	5.5	5.1	4.5	4.5
22.5°	6.2	5.7	5.7	5.5	5.1	4.5	4.5
20°	6.4	5.8	5.7	5.6	5.2	4.5	4.5
17.5°	6.6	5.9	5.7	5.6	5.3	4.5	4.5
15°	6.8	6.0	5.7	5.7	5.3	4.5	4.5
12.5°	7.0	6.1	5.7	5.7	5.4	4.5	4.5
10°	7.2	6.3	5.7	5.7	5.5	4.5	4.5
7.5°	7.4	6.4	5.7	5.7	5.5	4.5	4.5
5°	7.6	6.5	5.7	5.7	5.6	4.5	4.5
2.5°	7.7	6.7	5.7	5.7	5.6	4.5	4.5
0°	7.9	6.8	5.7	5.7	5.7	4.5	4.5
-2.5°	8.8	7.0	5.8	5.8	5.7	4.5	4.5
-5°	9.7	7.3	5.9	5.8	5.7	4.6	4.5
-7.5°	10.5	7.5	6.0	5.9	5.7	4.6	4.5
-10°	11.2	7.7	6.1	6.0	5.7	4.6	4.5
-12.5°	11.8	7.9	6.2	6.0	5.7	4.6	4.5
-15°	12.3	8.0	6.3	6.1	5.6	4.7	4.5
-17.5°	12.7	8.1	6.4	6.1	5.6	4.7	4.5
-20°	13.1	8.1	6.5	6.2	5.6	4.7	4.5



REPORT NUMBER: P731311 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV2

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	13.5	8.2	6.5	6.2	5.6	4.7	4.5
-25°	13.7	8.3	6.6	6.2	5.6	4.7	4.5
-27.5°	13.6	8.4	6.7	6.2	5.6	4.7	4.5
-30°	13.2	8.4	6.8	6.2	5.5	4.8	4.5
-32.5°	12.4	8.4	6.9	6.2	5.5	4.8	4.5
-35°	12.1	8.3	7.0	6.1	5.5	4.8	4.5
-37.5°	12.0	8.3	7.1	6.1	5.5	4.8	4.5
-40°	11.7	8.4	7.2	6.0	5.5	4.8	4.5
-42.5°	11.4	8.4	7.1	5.9	5.5	4.8	4.5
-45°	11.0	8.4	7.0	5.9	5.5	4.8	4.5
-47.5°	10.4	8.3	6.9	5.8	5.5	4.8	4.5
-50°	10.2	8.2	6.8	5.8	5.5	4.8	4.5
-52.5°	9.9	8.0	6.6	5.8	5.5	4.8	4.5
-55°	9.5	7.8	6.5	5.8	5.5	4.8	4.5
-57.5°	9.1	7.5	6.3	5.8	5.5	4.8	4.5
-60°	8.6	7.2	6.1	5.8	5.5	4.8	4.5
-62.5°	8.2	6.9	6.1	5.8	5.5	4.7	4.5
-65°	7.7	6.6	6.0	5.8	5.4	4.7	4.5
-67.5°	7.3	6.4	5.9	5.7	5.3	4.7	4.5
-70°	6.8	6.2	5.9	5.7	5.3	4.7	4.5
-72.5°	6.5	6.1	5.8	5.6	5.2	4.7	4.5
-75°	6.3	5.9	5.7	5.5	5.1	4.6	4.5
-77.5°	6.0	5.8	5.6	5.4	5.0	4.6	4.5
-80°	5.7	5.7	5.5	5.3	4.9	4.6	4.5
-82.5°	5.7	5.6	5.4	5.1	4.8	4.6	4.5
-85°	5.7	5.5	5.3	5.0	4.7	4.6	4.5
-87.5°	5.7	5.5	5.2	4.9	4.6	4.5	4.5
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5

(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

