

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: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-70-4S-CV1-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0640L-40-70-4S-CV1-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

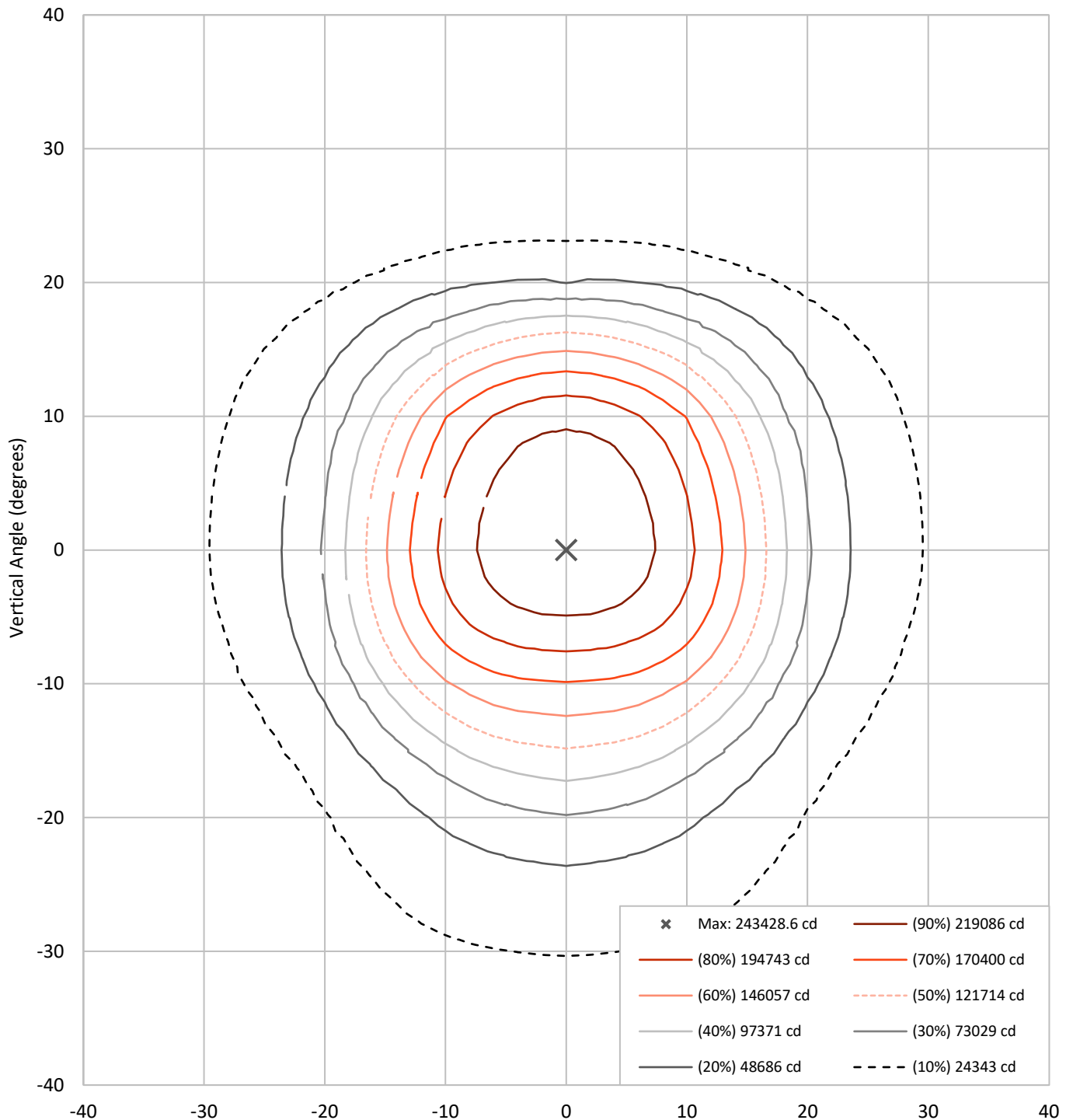
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	82941.1 lumens	Max Intensity:	243428.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	126.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.1°H x 31.1°V	Field Angle (10%):	59.1°H x 53.4°V
Beam Lumens:	45330.6 lumens	Field Lumens:	73042.3 lumens
Beam Efficiency:	54.7%	Field Efficiency:	88.1%

Input Watts (W): 658  
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

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### Iso-Candela Plot





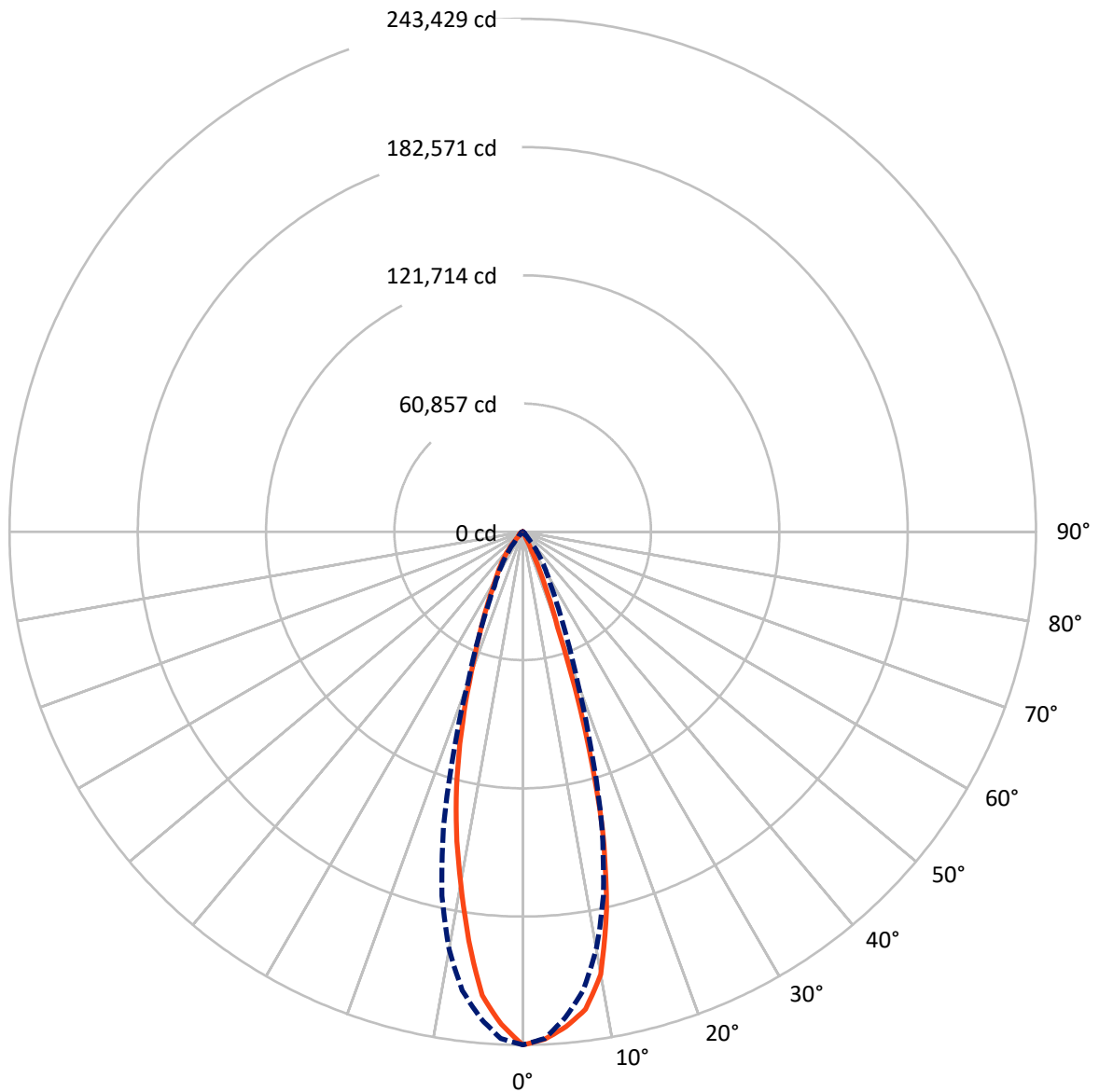
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### Lumen Table

90	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.1				
80	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.1				
70	0.1	0.1	0.1	0.4	0.7	0.4	0.3	0.3	0.3	0.3	0.4	0.7	0.4	0.1	0.1	0.1
60		0.1	0.3	0.9	0.8	0.3	0.3	0.3	0.3	0.3	0.3	0.8	0.9	0.3	0.1	
50	0.1	0.1	0.4	0.6	0.7	0.8	0.9	0.9	0.9	0.9	0.8	0.7	0.6	0.4	0.1	0.1
40		0.2	0.9	2.5	4.5	7.8	11.9	14.6	14.6	11.9	7.8	4.5	2.5	0.9	0.2	
30	0.1	0.5	4.1	12.5	49.2	153.7	307.8	499.8	499.8	307.8	153.7	49.2	12.5	4.1	0.5	0.1
20		1.3	9.2	30.1	203.5	695.0	2074.1	3866.8	3866.8	2074.1	695.0	203.5	30.1	9.2	1.3	
10	0.2	2.1	12.7	42.9	317.0	1129.2	3872.1	6632.0	6632.0	3872.1	1129.2	317.0	42.9	12.7	2.1	0.2
0		2.6	13.5	44.2	313.0	1089.2	3747.8	6173.3	6173.3	3747.8	1089.2	313.0	44.2	13.5	2.6	
-10	0.5	3.1	13.0	34.0	186.0	615.4	1891.3	3371.3	3371.3	1891.3	615.4	186.0	34.0	13.0	3.1	0.5
-20		3.2	12.4	26.3	87.6	333.6	768.6	1226.1	1226.1	768.6	333.6	87.6	26.3	12.4	3.2	
-30	0.4	2.6	11.2	22.4	43.2	124.0	310.3	471.4	471.4	310.3	124.0	43.2	22.4	11.2	2.6	0.4
-40		1.7	8.1	19.2	32.3	49.4	75.0	101.9	101.9	75.0	49.4	32.3	19.2	8.1	1.7	
-50	0.2	0.9	4.2	12.5	24.3	35.0	45.0	51.5	51.5	45.0	35.0	24.3	12.5	4.2	0.9	0.2
-60		0.3	1.5	4.5	9.7	16.3	23.0	26.6	26.6	23.0	16.3	9.7	4.5	1.5	0.3	
-70	0.1	0.8	3.1	7.8	10.4	7.8	3.1	0.8	0.1							0.1
-80		0.1	0.8	3.1	7.8	10.4	7.8	3.1	0.8	0.1						
-90	0.1	0.8	3.1	7.8	10.4	7.8	3.1	0.8	0.1							

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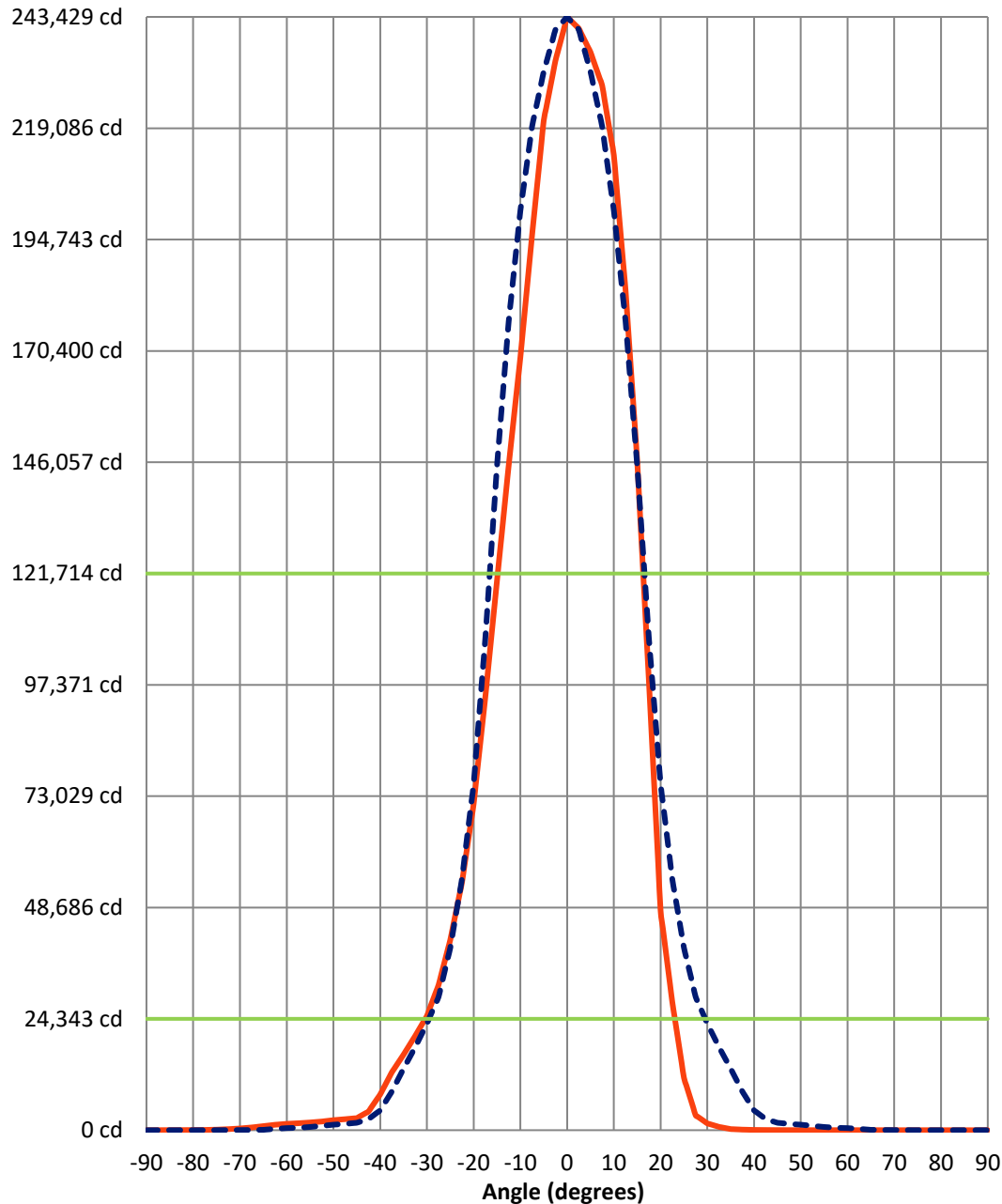
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 33.1°  
 V Angle: 31.1°  
 Lumens: 45330.6  
 Efficiency: 54.7%

**Field:**  
 H Angle: 59.1°  
 V Angle: 53.4°  
 Lumens: 73042.3  
 Efficiency: 88.1%

**Spill:**  
 Lumens: 9898.8  
 Efficiency: 11.9%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	4.2	3.2	2.3	2.3	2.3	2.2	2.1	2.1	2.1	2.1	2.1
85°	4.2	3.2	2.5	2.5	2.5	2.3	2.1	2.1	2.1	2.1	2.1
82.5°	4.2	3.3	2.7	2.7	2.7	2.5	2.1	2.1	2.1	2.2	2.1
80°	4.2	3.3	2.8	2.9	2.8	2.6	2.2	2.4	2.5	2.4	2.1
77.5°	4.2	3.4	3.0	3.1	3.0	2.8	2.7	2.9	2.9	2.7	2.4
75°	4.2	3.4	3.2	3.4	3.2	3.1	3.3	3.4	3.3	3.2	3.3
72.5°	4.2	3.5	3.4	3.6	3.4	3.5	3.8	3.9	3.6	3.7	4.1
70°	4.2	3.6	3.6	3.8	3.6	3.8	4.2	4.0	3.9	4.2	4.2
67.5°	4.2	3.6	3.7	3.9	3.8	4.1	4.2	4.1	4.2	4.2	4.2
65°	4.2	3.7	3.9	3.9	3.9	4.2	4.2	4.2	4.2	4.2	4.2
62.5°	4.2	3.7	4.1	4.0	4.1	4.2	4.2	4.2	4.2	4.2	4.2
60°	4.2	3.7	4.2	4.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2
57.5°	4.2	3.8	4.2	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2
55°	4.2	3.8	4.2	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2
52.5°	4.2	3.9	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
50°	4.2	3.9	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.5
47.5°	4.2	3.9	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.9
45°	4.2	4.0	4.2	4.2	4.2	4.2	4.2	4.2	4.3	5.4	8.2
42.5°	4.2	4.0	4.2	4.2	4.2	4.2	4.2	4.3	4.4	6.5	9.9
40°	4.2	4.0	4.2	4.2	4.2	4.2	4.2	4.4	4.9	7.7	11.7
37.5°	4.2	4.1	4.2	4.2	4.2	4.2	4.2	4.7	6.0	9.0	13.5
35°	4.2	4.1	4.2	4.2	4.2	4.2	4.2	4.9	7.0	10.7	15.1
32.5°	4.2	4.1	4.2	4.2	4.2	4.2	4.3	5.2	8.0	12.3	16.7
30°	4.2	4.1	4.2	4.2	4.2	4.2	4.5	5.6	8.9	13.8	18.5
27.5°	4.2	4.1	4.2	4.2	4.2	4.2	4.7	6.4	10.0	15.2	20.6
25°	4.2	4.2	4.2	4.2	4.2	4.2	5.0	7.1	11.1	16.8	23.1
22.5°	4.2	4.2	4.2	4.2	4.2	4.2	5.2	7.8	12.2	18.6	28.0
20°	4.2	4.2	4.2	4.2	4.2	4.4	5.5	8.4	13.2	20.5	33.4
17.5°	4.2	4.2	4.2	4.2	4.2	4.6	5.9	9.0	14.1	22.5	39.1
15°	4.2	4.2	4.2	4.2	4.2	4.8	6.3	9.7	14.9	24.5	45.0
12.5°	4.2	4.2	4.2	4.2	4.2	5.0	6.7	10.6	16.3	26.5	51.0
10°	4.2	4.2	4.2	4.2	4.2	5.3	7.1	11.5	18.2	30.0	57.2
7.5°	4.2	4.2	4.2	4.2	4.2	5.5	7.4	12.4	20.0	33.8	63.7
5°	4.2	4.2	4.2	4.2	4.2	5.8	7.8	13.2	21.9	37.5	69.7
2.5°	4.2	4.2	4.2	4.2	4.2	6.1	8.1	14.0	23.6	41.0	75.1
0°	4.2	4.2	4.2	4.2	4.2	6.3	8.4	14.7	25.2	44.2	79.9
-2.5°	4.2	4.2	4.2	4.2	4.4	7.0	10.3	18.6	33.9	59.6	103.0
-5°	4.2	4.2	4.2	4.2	4.6	7.6	12.2	22.4	42.2	74.4	124.9
-7.5°	4.2	4.2	4.2	4.2	4.7	8.2	14.0	25.9	49.9	88.1	145.3
-10°	4.2	4.2	4.2	4.2	4.9	8.8	15.6	29.1	56.8	100.4	163.7
-12.5°	4.2	4.2	4.2	4.2	5.0	9.2	17.0	31.9	62.6	111.1	180.0
-15°	4.2	4.2	4.2	4.2	5.1	9.6	18.2	34.3	67.3	119.2	193.4
-17.5°	4.2	4.2	4.2	4.2	5.2	9.9	19.2	36.5	71.0	125.4	203.3
-20°	4.2	4.2	4.2	4.2	5.3	10.0	19.9	38.5	73.2	129.2	209.3



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 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.2	4.2	4.2	4.2	5.3	10.0	20.7	39.8	74.0	130.6	211.2
-25°	4.2	4.2	4.2	4.2	5.3	10.1	21.0	40.3	73.2	129.4	208.6
-27.5°	4.2	4.2	4.2	4.2	5.3	10.1	20.9	40.1	70.8	126.5	206.7
-30°	4.2	4.2	4.2	4.2	5.2	9.9	20.4	39.1	69.2	123.5	201.4
-32.5°	4.2	4.2	4.2	4.2	5.3	9.5	19.4	38.2	67.8	118.2	192.3
-35°	4.2	4.2	4.2	4.2	5.3	8.9	18.6	36.9	65.3	110.5	179.4
-37.5°	4.2	4.2	4.2	4.2	5.3	8.4	17.9	35.0	61.7	100.4	163.6
-40°	4.2	4.2	4.2	4.2	5.3	8.4	16.8	32.3	56.8	93.2	147.5
-42.5°	4.2	4.2	4.2	4.2	5.3	8.3	15.5	28.8	52.2	85.0	129.1
-45°	4.2	4.2	4.2	4.3	5.4	8.2	13.8	25.6	47.4	75.6	109.9
-47.5°	4.2	4.2	4.2	4.3	5.4	8.0	11.8	23.3	41.7	65.4	98.2
-50°	4.2	4.2	4.2	4.3	5.4	7.7	11.3	20.5	34.4	56.9	85.4
-52.5°	4.2	4.2	4.2	4.4	5.4	7.4	10.8	17.4	29.1	47.5	71.9
-55°	4.2	4.2	4.2	4.4	5.3	7.2	10.4	14.2	24.7	37.2	59.8
-57.5°	4.2	4.2	4.2	4.4	5.1	7.0	9.8	13.4	20.1	30.6	46.7
-60°	4.2	4.2	4.2	4.4	5.0	6.6	9.2	12.6	16.0	25.0	35.2
-62.5°	4.2	4.2	4.2	4.3	4.9	6.2	8.6	11.6	14.8	19.2	28.6
-65°	4.2	4.2	4.2	4.3	4.8	5.8	7.9	10.6	13.5	16.7	21.8
-67.5°	4.2	4.2	4.2	4.3	4.7	5.4	7.1	9.5	12.0	15.0	18.3
-70°	4.2	4.2	4.2	4.2	4.5	5.2	6.2	8.4	10.8	13.2	16.1
-72.5°	4.2	4.2	4.2	4.2	4.4	4.9	5.7	7.3	9.6	11.8	13.9
-75°	4.2	4.2	4.2	4.2	4.2	4.6	5.3	6.6	8.3	10.3	12.3
-77.5°	4.2	4.2	4.2	4.2	4.2	4.3	4.8	5.9	7.3	8.9	10.7
-80°	4.2	4.2	4.2	4.2	4.2	4.2	4.3	5.2	6.3	7.6	9.1
-82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.6	5.3	6.3	7.4
-85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.5	4.9	5.4	6.0
-87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.4	4.6	4.8	5.1
-90°	4.2	3.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.5	2.7	2.9
80°	2.1	2.1	2.2	2.1	2.3	2.6	3.1	3.7	4.1	4.2	4.2
77.5°	2.6	2.7	2.5	2.2	2.5	3.0	3.5	4.1	4.2	4.2	4.2
75°	3.4	3.3	2.8	2.3	2.4	2.9	3.5	4.0	4.2	4.2	4.2
72.5°	3.9	3.4	2.9	2.4	2.8	3.5	3.9	4.2	5.2	6.4	7.2
70°	4.0	3.5	3.3	3.4	3.8	4.6	6.5	8.8	11.0	11.9	12.7
67.5°	4.1	3.8	3.9	4.4	5.9	7.9	10.6	13.9	17.2	18.3	19.6
65°	4.2	4.1	4.7	6.1	8.2	11.4	15.0	18.9	24.6	27.5	28.8
62.5°	4.2	4.5	5.6	7.9	11.3	15.1	19.9	26.2	33.8	38.7	38.5
60°	4.2	4.7	7.0	10.5	14.4	18.9	25.1	33.8	44.6	52.3	47.1
57.5°	4.2	5.6	9.0	12.9	17.1	22.1	30.7	41.5	51.4	61.7	52.9
55°	4.8	7.2	10.9	15.0	20.0	26.0	34.4	42.9	53.7	57.6	48.2
52.5°	6.4	8.8	12.5	17.3	23.3	28.1	32.7	40.3	44.4	46.2	39.7
50°	8.0	10.6	14.0	19.9	25.0	27.7	28.4	33.1	35.0	33.4	30.2
47.5°	9.8	12.5	16.0	21.7	25.3	26.5	25.5	26.4	26.3	26.0	21.9
45°	11.6	14.8	18.5	22.4	25.0	24.7	24.3	21.3	24.2	23.4	21.5
42.5°	13.6	17.0	20.7	23.3	23.9	25.3	25.1	26.0	26.1	27.3	29.4
40°	15.4	19.0	23.2	25.0	24.4	28.3	33.9	36.8	33.1	39.9	45.8
37.5°	17.0	21.6	27.0	31.3	28.9	37.4	46.7	61.5	63.6	59.1	75.4
35°	18.4	24.5	35.9	45.9	48.4	52.4	78.3	101.9	116.5	107.9	120.4
32.5°	20.6	27.8	47.9	69.7	87.0	91.9	119.1	168.6	197.4	202.3	194.1
30°	24.2	39.1	66.1	99.9	138.5	173.1	197.0	253.5	300.7	352.2	382.7
27.5°	29.6	53.7	95.0	147.4	205.6	270.4	324.1	367.7	454.0	541.6	616.9
25°	35.9	83.5	128.1	206.8	299.3	388.7	463.5	530.3	644.0	780.7	1009.3
22.5°	51.5	121.7	183.4	273.7	403.6	516.6	617.6	721.5	860.3	1044.4	1522.6
20°	79.4	169.3	246.4	342.6	511.1	650.0	778.1	908.9	1082.7	1468.3	2517.5
17.5°	111.4	219.1	307.0	418.5	591.3	768.0	943.8	1087.7	1298.3	1867.4	3613.0
15°	146.7	270.3	361.8	487.9	667.2	859.5	1055.9	1262.0	1583.1	2399.3	4652.8
12.5°	183.9	322.1	411.2	550.9	738.6	946.5	1145.8	1369.0	1840.3	3206.1	5975.8
10°	222.0	373.6	455.7	607.5	804.7	1028.2	1226.1	1459.1	2041.6	3722.5	6899.6
7.5°	246.2	410.2	492.0	658.0	865.2	1103.6	1297.1	1533.5	2212.4	4050.3	7545.3
5°	264.6	428.9	504.0	680.6	905.0	1158.6	1352.1	1593.1	2349.9	4210.6	7991.6
2.5°	278.6	443.5	513.7	694.3	929.2	1184.3	1368.6	1615.5	2406.8	4307.5	8300.8
0°	288.0	454.1	521.4	702.2	946.1	1200.5	1377.1	1627.2	2415.6	4335.1	8451.6
-2.5°	303.8	462.5	537.1	716.4	955.0	1205.6	1384.1	1636.4	2451.0	4464.8	8681.9
-5°	315.4	467.3	550.5	725.2	956.3	1201.9	1384.1	1634.3	2430.6	4419.7	8391.3
-7.5°	323.2	469.5	561.0	728.1	943.6	1175.5	1355.9	1587.7	2303.0	4135.5	7602.1
-10°	329.0	476.3	574.3	723.6	915.7	1132.7	1316.2	1531.1	2138.7	3736.1	6687.7
-12.5°	337.8	487.4	587.3	717.1	886.4	1083.6	1270.0	1465.4	1939.5	3221.7	5654.0
-15°	342.2	496.6	599.3	709.6	857.7	1029.2	1217.7	1391.3	1716.3	2601.1	4506.4
-17.5°	342.3	504.3	610.7	701.9	831.2	970.0	1165.3	1337.6	1559.0	2219.5	3706.5
-20°	338.0	510.7	621.7	695.0	809.2	933.3	1122.6	1299.8	1494.7	1933.8	2912.9



REPORT NUMBER: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	329.3	516.3	628.9	700.5	801.2	918.0	1073.8	1254.5	1427.8	1628.5	2307.0
-25°	323.5	502.4	629.8	706.1	792.7	901.7	1021.1	1201.2	1365.4	1558.7	1987.9
-27.5°	319.7	483.4	618.3	707.5	782.3	885.8	990.7	1138.5	1317.6	1497.2	1693.4
-30°	309.8	448.8	602.3	701.0	778.0	871.3	970.0	1081.4	1262.7	1436.8	1617.6
-32.5°	290.1	412.6	566.8	679.8	771.0	855.1	949.1	1049.4	1192.8	1372.4	1538.4
-35°	267.4	384.5	523.0	653.4	757.4	839.2	925.1	1019.7	1125.3	1288.4	1473.1
-37.5°	246.1	351.9	478.1	614.3	723.5	822.5	897.4	987.2	1085.3	1197.7	1382.1
-40°	221.0	314.7	435.9	564.2	686.5	795.2	879.5	951.5	1042.1	1156.6	1270.9
-42.5°	193.0	282.5	390.4	512.7	633.8	749.5	858.7	929.0	1009.1	1115.8	1225.3
-45°	169.8	246.1	341.7	454.9	571.5	692.3	803.2	912.9	989.6	1075.2	1179.2
-47.5°	144.0	208.5	296.1	392.5	503.7	618.4	737.3	851.2	968.4	1050.4	1131.9
-50°	119.2	176.5	245.4	334.1	431.0	539.2	651.0	776.1	894.1	1008.3	1102.8
-52.5°	103.5	141.6	203.4	274.9	361.1	455.2	562.0	677.5	799.2	920.5	1024.4
-55°	86.6	118.6	161.2	222.4	292.7	375.4	467.1	573.0	683.3	799.5	909.5
-57.5°	70.4	98.0	129.6	172.4	232.0	297.0	376.7	463.9	562.9	665.8	757.7
-60°	53.9	77.5	104.6	135.6	173.5	229.3	286.3	358.4	440.8	523.9	604.0
-62.5°	38.3	57.4	80.1	105.7	135.5	165.8	211.3	264.0	318.7	386.1	452.5
-65°	30.6	39.7	56.5	77.9	100.7	126.8	153.9	181.6	226.2	270.8	313.4
-67.5°	22.7	30.6	39.2	50.4	69.8	89.2	110.3	134.4	158.8	181.5	208.7
-70°	19.1	22.1	28.5	36.3	44.0	53.2	70.1	88.3	107.0	124.9	143.8
-72.5°	16.5	19.2	21.9	24.5	30.5	36.2	41.6	46.5	57.2	72.1	86.5
-75°	14.2	16.3	18.7	21.1	23.0	24.8	27.2	31.7	36.3	40.6	44.6
-77.5°	12.0	13.4	15.3	17.4	19.1	20.3	21.7	23.2	25.2	27.4	29.7
-80°	9.8	10.5	11.5	12.9	14.3	15.7	16.8	17.8	18.9	20.4	22.0
-82.5°	7.9	8.4	8.9	9.3	10.1	11.1	12.2	13.3	14.0	14.8	15.6
-85°	6.1	6.3	6.6	6.9	7.3	7.8	8.3	8.9	9.5	10.1	10.6
-87.5°	5.2	5.2	5.3	5.4	5.5	5.5	5.6	5.7	6.1	6.6	7.1
-90°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1



REPORT NUMBER: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	4.2	4.7	5.3	5.8	6.3	6.8	7.4	7.9	8.4	8.4	8.4
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	3.1	3.0	2.8	2.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	4.2	3.9	3.7	3.5	3.4	3.2	2.9	2.6	2.1	2.1	2.1
77.5°	4.2	4.2	4.2	4.2	4.2	3.8	3.2	2.7	2.2	2.1	2.1
75°	4.2	4.4	4.6	4.6	4.3	4.0	3.9	3.8	3.8	3.5	3.1
72.5°	7.5	7.4	7.1	7.1	6.8	6.8	6.8	6.5	6.0	5.9	6.0
70°	13.4	13.8	13.8	13.3	12.0	10.8	9.9	9.1	8.2	7.7	7.3
67.5°	20.7	20.9	19.7	17.8	14.9	12.2	11.1	10.0	8.9	8.6	9.0
65°	28.7	26.1	23.0	19.6	15.9	12.4	11.5	10.8	10.2	10.2	11.0
62.5°	35.5	28.6	23.0	19.0	15.6	12.4	11.4	10.5	9.6	9.0	8.9
60°	39.2	28.8	20.7	17.1	13.9	11.0	9.7	9.0	8.6	8.4	8.4
57.5°	39.3	27.2	18.0	14.8	11.9	9.4	8.4	8.4	8.4	8.4	8.4
55°	34.9	23.7	15.4	12.7	10.8	9.2	8.5	8.7	8.7	8.4	8.9
52.5°	27.3	19.7	14.4	11.9	11.1	10.6	10.3	10.2	10.0	9.8	10.1
50°	21.7	16.3	13.8	12.4	12.4	12.4	12.4	12.6	12.9	13.0	13.2
47.5°	18.2	15.3	15.6	14.4	14.9	16.2	16.5	16.7	17.3	17.4	17.0
45°	18.6	21.6	22.3	22.0	21.6	24.7	24.5	22.5	25.2	26.0	25.4
42.5°	30.9	33.5	35.2	36.8	38.7	41.0	42.2	41.5	43.9	43.9	41.1
40°	52.2	49.8	53.8	58.6	62.8	64.4	68.4	72.5	74.1	73.2	70.4
37.5°	85.7	82.0	82.3	93.0	102.8	91.2	108.3	115.2	110.9	126.2	129.2
35°	142.3	157.4	135.6	174.0	193.0	183.7	204.1	244.7	213.3	270.7	284.7
32.5°	253.0	289.2	311.9	344.2	391.8	454.5	470.2	570.1	602.0	648.3	698.1
30°	413.5	515.6	703.7	738.7	784.1	999.9	1059.3	1113.5	1227.1	1314.7	1463.6
27.5°	751.3	1026.7	1420.0	1766.2	1740.9	2106.0	2512.3	2057.3	2732.3	2461.5	3109.1
25°	1406.9	2014.0	2962.3	3879.8	4317.7	5061.7	5992.1	5816.0	7043.6	7128.8	8939.6
22.5°	2675.9	3994.9	5444.8	7004.5	8517.7	10192.2	11801.2	13488.0	16024.1	19528.1	22933.7
20°	4378.2	6317.4	8659.2	11074.3	13635.3	16239.5	19265.1	24388.7	29642.0	36934.2	42085.8
17.5°	6222.7	9309.2	12183.9	15176.1	18756.4	23085.1	29343.6	38098.3	48717.3	59617.9	68050.6
15°	7833.9	11325.5	15469.2	19458.4	23910.4	30408.0	40237.6	53205.1	68996.8	85568.1	105606.6
12.5°	9392.8	13040.0	17543.1	22588.8	28638.7	37938.6	50680.1	68204.4	89124.6	114026.2	139763.3
10°	10602.6	14604.4	19616.4	25298.6	32682.8	44105.1	58911.6	79601.3	110601.9	139998.0	169388.1
7.5°	11548.1	16049.9	21358.8	27322.5	35920.4	48781.9	66496.6	92541.2	125295.9	157101.5	184172.0
5°	12388.3	17238.4	22539.3	28463.1	38251.1	52184.7	71260.9	101005.0	135958.6	167217.4	192977.2
2.5°	13050.2	18015.6	23187.8	29034.4	39751.4	54063.1	73773.5	105547.1	142831.7	173692.2	198289.3
0°	13451.0	18154.1	23296.5	29155.8	39865.4	54914.2	75734.1	107534.8	145283.1	176860.8	201053.0
-2.5°	13307.4	17843.8	22944.0	28799.2	39489.4	54116.6	74157.1	106527.6	143205.8	172749.7	197080.6
-5°	12592.1	16828.2	21564.2	27073.3	36995.1	51086.5	69686.6	99204.9	133680.8	163174.6	186070.2
-7.5°	11464.3	15408.9	19757.0	24857.2	33437.1	46170.6	63120.2	88240.1	119537.5	146751.2	167413.2
-10°	10202.6	13763.6	17530.8	22048.1	28754.8	39563.3	53717.4	72898.3	99740.1	124208.6	143744.8
-12.5°	8686.0	11648.6	14815.4	18711.0	23794.2	32605.8	44506.1	60065.6	78728.7	100502.4	118288.0
-15°	7109.8	9600.5	12221.7	15875.7	20211.1	25824.1	34378.1	46747.9	60601.1	75472.8	91610.0
-17.5°	5709.4	7818.1	10597.3	13675.0	16979.3	20885.2	27957.9	36387.9	46413.6	57021.2	66760.3
-20°	4586.4	6822.9	9319.6	11996.1	15032.2	18788.1	23132.9	29537.6	36972.4	45115.2	52917.1



REPORT NUMBER: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3772.8	5778.6	8097.0	10607.6	13679.1	17060.4	20579.1	24598.6	29934.0	36194.5	42188.0
-25°	2873.5	4549.7	6798.7	9330.7	12160.2	15142.0	17998.2	21274.8	25175.3	29248.7	33445.6
-27.5°	2277.7	3460.9	5307.6	7685.3	10303.5	12638.0	15085.1	17813.4	21224.4	24768.3	27103.5
-30°	1859.0	2551.8	3938.0	5795.7	7983.9	10044.1	12053.4	14505.4	17183.1	19726.6	21790.9
-32.5°	1736.6	2046.5	2763.8	4087.8	5731.3	7570.2	9373.9	11562.7	13641.0	15653.8	17428.7
-35°	1650.3	1848.4	2119.0	2809.7	3799.6	5294.0	6942.0	8794.2	10669.9	12295.9	13801.3
-37.5°	1569.8	1741.8	1920.8	2099.0	2656.3	3340.3	4500.9	5965.9	7388.8	8704.5	10000.3
-40°	1454.9	1643.3	1788.0	1940.4	2106.2	2294.5	2901.8	3500.5	4197.0	5206.1	6090.0
-42.5°	1333.0	1490.1	1654.8	1797.5	1936.1	2080.8	2233.9	2386.1	2704.5	3100.4	3424.7
-45°	1282.1	1376.5	1489.8	1638.8	1778.1	1908.1	2032.6	2153.1	2280.3	2396.5	2491.4
-47.5°	1221.2	1307.1	1398.7	1495.8	1598.1	1723.6	1846.9	1969.5	2080.8	2184.3	2266.8
-50°	1164.9	1232.4	1314.3	1396.9	1478.7	1562.9	1647.9	1742.5	1848.9	1953.6	2039.8
-52.5°	1118.9	1180.8	1239.3	1297.8	1369.0	1440.3	1511.8	1587.2	1659.8	1728.5	1782.0
-55°	1007.2	1094.3	1180.0	1235.2	1283.1	1331.7	1385.8	1453.3	1517.8	1578.8	1614.7
-57.5°	855.0	955.9	1048.5	1113.8	1180.6	1248.2	1304.1	1352.3	1401.1	1447.6	1473.0
-60°	685.8	768.6	852.5	930.3	1004.6	1074.8	1139.9	1203.3	1261.9	1311.3	1341.3
-62.5°	518.3	587.1	655.2	720.2	782.8	843.7	913.1	980.0	1043.6	1095.5	1127.5
-65°	360.8	417.2	470.0	520.7	569.2	621.1	675.0	727.5	777.8	817.8	844.0
-67.5°	245.4	280.1	311.6	341.7	378.6	418.6	458.2	494.9	528.7	554.6	573.0
-70°	163.0	181.6	198.2	217.7	241.8	266.1	290.6	313.3	334.1	349.6	361.2
-72.5°	100.3	113.2	125.2	138.2	150.5	163.3	176.6	189.7	202.3	211.4	218.3
-75°	48.3	54.2	64.8	74.5	83.2	91.3	98.7	105.1	110.7	114.2	116.5
-77.5°	32.9	35.6	38.2	40.9	43.6	46.8	50.2	53.4	56.4	58.8	60.9
-80°	23.7	25.1	26.4	27.4	28.3	29.7	31.2	32.7	34.2	34.7	35.1
-82.5°	16.4	17.5	18.6	19.7	20.7	21.7	22.6	23.5	24.3	25.1	25.8
-85°	11.1	11.6	12.2	12.9	13.5	14.2	15.0	15.7	16.4	16.5	16.6
-87.5°	7.6	7.8	8.0	8.1	8.2	8.8	9.3	9.9	10.4	10.5	10.5
-90°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.6	1.1



REPORT NUMBER: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	7.9
87.5°	2.1	2.1	1.0	0.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.7
75°	2.6	2.1	2.1	2.1	2.1	2.1	2.6	3.1	3.5	3.8	3.8
72.5°	6.1	6.2	5.3	4.2	5.3	6.2	6.1	6.0	5.9	6.0	6.5
70°	6.9	6.4	6.3	6.3	6.3	6.4	6.9	7.3	7.7	8.2	9.1
67.5°	9.6	10.3	10.5	10.5	10.5	10.3	9.6	9.0	8.6	8.9	10.0
65°	11.7	12.4	11.6	10.5	11.6	12.4	11.7	11.0	10.2	10.2	10.8
62.5°	8.8	8.6	8.4	8.4	8.4	8.6	8.8	8.9	9.0	9.6	10.5
60°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.6	9.0
57.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
55°	9.5	10.2	10.5	10.5	10.5	10.2	9.5	8.9	8.4	8.7	8.7
52.5°	10.4	10.5	10.5	10.5	10.5	10.5	10.4	10.1	9.8	10.0	10.2
50°	13.1	12.7	12.6	12.6	12.6	12.7	13.1	13.2	13.0	12.9	12.6
47.5°	16.3	15.2	14.7	14.7	14.7	15.2	16.3	17.0	17.4	17.3	16.7
45°	25.5	25.1	25.0	25.2	25.0	25.1	25.5	25.4	26.0	25.2	22.5
42.5°	42.7	43.4	42.7	39.9	42.7	43.4	42.7	41.1	43.9	43.9	41.5
40°	70.5	67.8	64.2	63.1	64.2	67.8	70.5	70.4	73.2	74.1	72.5
37.5°	130.8	130.7	127.7	126.1	127.7	130.7	130.8	129.2	126.2	110.9	115.2
35°	275.2	273.0	258.1	243.9	258.1	273.0	275.2	284.7	270.7	213.3	244.7
32.5°	714.9	752.8	749.3	727.4	749.3	752.8	714.9	698.1	648.3	602.0	570.1
30°	1520.8	1588.7	1574.4	1484.3	1574.4	1588.7	1520.8	1463.6	1314.7	1227.1	1113.5
27.5°	3143.5	3302.4	3442.4	3258.7	3442.4	3302.4	3143.5	3109.1	2461.5	2732.3	2057.3
25°	10752.5	11786.5	12398.2	11447.5	12398.2	11786.5	10752.5	8939.6	7128.8	7043.6	5816.0
22.5°	25661.8	26950.4	27638.0	28031.1	27638.0	26950.4	25661.8	22933.7	19528.1	16024.1	13488.0
20°	47072.4	49827.9	51593.0	48037.4	51593.0	49827.9	47072.4	42085.8	36934.2	29642.0	24388.7
17.5°	79748.8	89911.2	95261.7	98168.7	95261.7	89911.2	79748.8	68050.6	59617.9	48717.3	38098.3
15°	121071.4	134074.0	142854.6	146292.2	142854.6	134074.0	121071.4	105606.6	85568.1	68996.8	53205.1
12.5°	160142.2	173559.0	181660.4	183696.8	181660.4	173559.0	160142.2	139763.3	114026.2	89124.6	68204.4
10°	187932.1	200573.8	209893.2	213164.8	209893.2	200573.8	187932.1	169388.1	139998.0	110601.9	79601.3
7.5°	203402.9	218180.2	226393.9	228438.6	226393.9	218180.2	203402.9	184172.0	157101.5	125295.9	92541.2
5°	212306.7	225658.1	234636.8	235725.5	234636.8	225658.1	212306.7	192977.2	167217.4	135958.6	101005.0
2.5°	218047.6	231105.0	238659.2	240879.5	238659.2	231105.0	218047.6	198289.3	173692.2	142831.7	105547.1
0°	219456.2	231461.9	240588.3	243428.6	240588.3	231461.9	219456.2	201053.0	176860.8	145283.1	107534.8
-2.5°	215190.9	226772.6	232851.9	233837.6	232851.9	226772.6	215190.9	197080.6	172749.7	143205.8	106527.6
-5°	204298.3	212863.8	219881.9	220779.7	219881.9	212863.8	204298.3	186070.2	163174.6	133680.8	99204.9
-7.5°	181160.7	190769.2	194650.9	195701.4	194650.9	190769.2	181160.7	167413.2	146751.2	119537.5	88240.1
-10°	156542.6	164774.2	167524.1	169008.5	167524.1	164774.2	156542.6	143744.8	124208.6	99740.1	72898.3
-12.5°	132441.4	140490.7	143195.4	145344.1	143195.4	140490.7	132441.4	118288.0	100502.4	78728.7	60065.6
-15°	105438.1	113364.4	117734.2	120153.3	117734.2	113364.4	105438.1	91610.0	75472.8	60601.1	46747.9
-17.5°	79120.5	86648.1	91734.1	94693.4	91734.1	86648.1	79120.5	66760.3	57021.2	46413.6	36387.9
-20°	59992.1	65086.8	69000.8	71323.3	69000.8	65086.8	59992.1	52917.1	45115.2	36972.4	29537.6



REPORT NUMBER: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	46862.8	50391.4	52658.7	54142.7	52658.7	50391.4	46862.8	42188.0	36194.5	29934.0	24598.6
-25°	36626.1	38941.9	40408.2	41608.3	40408.2	38941.9	36626.1	33445.6	29248.7	25175.3	21274.8
-27.5°	29000.1	30241.7	30889.8	31771.2	30889.8	30241.7	29000.1	27103.5	24768.3	21224.4	17813.4
-30°	23313.2	24265.9	24781.0	24972.1	24781.0	24265.9	23313.2	21790.9	19726.6	17183.1	14505.4
-32.5°	18763.2	19663.2	20313.3	20618.1	20313.3	19663.2	18763.2	17428.7	15653.8	13641.0	11562.7
-35°	14969.4	15720.3	16232.7	16514.2	16232.7	15720.3	14969.4	13801.3	12295.9	10669.9	8794.2
-37.5°	11073.4	11897.3	12461.4	12654.2	12461.4	11897.3	11073.4	10000.3	8704.5	7388.8	5965.9
-40°	6793.9	7318.8	7657.5	7799.8	7657.5	7318.8	6793.9	6090.0	5206.1	4197.0	3500.5
-42.5°	3677.5	3870.2	4003.9	4080.7	4003.9	3870.2	3677.5	3424.7	3100.4	2704.5	2386.1
-45°	2552.8	2601.6	2632.5	2644.8	2632.5	2601.6	2552.8	2491.4	2396.5	2280.3	2153.1
-47.5°	2327.2	2379.9	2407.9	2409.3	2407.9	2379.9	2327.2	2266.8	2184.3	2080.8	1969.5
-50°	2107.9	2165.3	2194.3	2197.0	2194.3	2165.3	2107.9	2039.8	1953.6	1848.9	1742.5
-52.5°	1830.8	1876.2	1896.0	1894.2	1896.0	1876.2	1830.8	1782.0	1728.5	1659.8	1587.2
-55°	1645.8	1672.9	1684.9	1686.1	1684.9	1672.9	1645.8	1614.7	1578.8	1517.8	1453.3
-57.5°	1495.8	1515.8	1522.8	1522.1	1522.8	1515.8	1495.8	1473.0	1447.6	1401.1	1352.3
-60°	1367.4	1389.2	1395.2	1391.8	1395.2	1389.2	1367.4	1341.3	1311.3	1261.9	1203.3
-62.5°	1153.6	1173.6	1183.5	1185.7	1183.5	1173.6	1153.6	1127.5	1095.5	1043.6	980.0
-65°	864.7	879.7	887.5	889.3	887.5	879.7	864.7	844.0	817.8	777.8	727.5
-67.5°	587.3	597.4	600.6	599.2	600.6	597.4	587.3	573.0	554.6	528.7	494.9
-70°	370.6	377.7	379.4	378.4	379.4	377.7	370.6	361.2	349.6	334.1	313.3
-72.5°	223.9	228.2	228.5	227.1	228.5	228.2	223.9	218.3	211.4	202.3	189.7
-75°	118.0	118.6	118.5	117.7	118.5	118.6	118.0	116.5	114.2	110.7	105.1
-77.5°	62.8	64.6	64.0	63.1	64.0	64.6	62.8	60.9	58.8	56.4	53.4
-80°	35.4	35.6	35.7	35.7	35.7	35.6	35.4	35.1	34.7	34.2	32.7
-82.5°	26.5	27.2	26.2	25.2	26.2	27.2	26.5	25.8	25.1	24.3	23.5
-85°	16.7	16.8	16.8	16.8	16.8	16.8	16.7	16.6	16.5	16.4	15.7
-87.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.4	9.9
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.6	2.1	2.1



REPORT NUMBER: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	7.4	6.8	6.3	5.8	5.3	4.7	4.2	4.2	4.2	4.2	4.2
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.5	2.8	3.0	3.1	2.9	2.7	2.5	2.3
80°	2.9	3.2	3.4	3.5	3.7	3.9	4.2	4.2	4.2	4.1	3.7
77.5°	3.2	3.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1
75°	3.9	4.0	4.3	4.6	4.6	4.4	4.2	4.2	4.2	4.2	4.0
72.5°	6.8	6.8	6.8	7.1	7.1	7.4	7.5	7.2	6.4	5.2	4.2
70°	9.9	10.8	12.0	13.3	13.8	13.8	13.4	12.7	11.9	11.0	8.8
67.5°	11.1	12.2	14.9	17.8	19.7	20.9	20.7	19.6	18.3	17.2	13.9
65°	11.5	12.4	15.9	19.6	23.0	26.1	28.7	28.8	27.5	24.6	18.9
62.5°	11.4	12.4	15.6	19.0	23.0	28.6	35.5	38.5	38.7	33.8	26.2
60°	9.7	11.0	13.9	17.1	20.7	28.8	39.2	47.1	52.3	44.6	33.8
57.5°	8.4	9.4	11.9	14.8	18.0	27.2	39.3	52.9	61.7	51.4	41.5
55°	8.5	9.2	10.8	12.7	15.4	23.7	34.9	48.2	57.6	53.7	42.9
52.5°	10.3	10.6	11.1	11.9	14.4	19.7	27.3	39.7	46.2	44.4	40.3
50°	12.4	12.4	12.4	12.4	13.8	16.3	21.7	30.2	33.4	35.0	33.1
47.5°	16.5	16.2	14.9	14.4	15.6	15.3	18.2	21.9	26.0	26.3	26.4
45°	24.5	24.7	21.6	22.0	22.3	21.6	18.6	21.5	23.4	24.2	21.3
42.5°	42.2	41.0	38.7	36.8	35.2	33.5	30.9	29.4	27.3	26.1	26.0
40°	68.4	64.4	62.8	58.6	53.8	49.8	52.2	45.8	39.9	33.1	36.8
37.5°	108.3	91.2	102.8	93.0	82.3	82.0	85.7	75.4	59.1	63.6	61.5
35°	204.1	183.7	193.0	174.0	135.6	157.4	142.3	120.4	107.9	116.5	101.9
32.5°	470.2	454.5	391.8	344.2	311.9	289.2	253.0	194.1	202.3	197.4	168.6
30°	1059.3	999.9	784.1	738.7	703.7	515.6	413.5	382.7	352.2	300.7	253.5
27.5°	2512.3	2106.0	1740.9	1766.2	1420.0	1026.7	751.3	616.9	541.6	454.0	367.7
25°	5992.1	5061.7	4317.7	3879.8	2962.3	2014.0	1406.9	1009.3	780.7	644.0	530.3
22.5°	11801.2	10192.2	8517.7	7004.5	5444.8	3994.9	2675.9	1522.6	1044.4	860.3	721.5
20°	19265.1	16239.5	13635.3	11074.3	8659.2	6317.4	4378.2	2517.5	1468.3	1082.7	908.9
17.5°	29343.6	23085.1	18756.4	15176.1	12183.9	9309.2	6222.7	3613.0	1867.4	1298.3	1087.7
15°	40237.6	30408.0	23910.4	19458.4	15469.2	11325.5	7833.9	4652.8	2399.3	1583.1	1262.0
12.5°	50680.1	37938.6	28638.7	22588.8	17543.1	13040.0	9392.8	5975.8	3206.1	1840.3	1369.0
10°	58911.6	44105.1	32682.8	25298.6	19616.4	14604.4	10602.6	6899.6	3722.5	2041.6	1459.1
7.5°	66496.6	48781.9	35920.4	27322.5	21358.8	16049.9	11548.1	7545.3	4050.3	2212.4	1533.5
5°	71260.9	52184.7	38251.1	28463.1	22539.3	17238.4	12388.3	7991.6	4210.6	2349.9	1593.1
2.5°	73773.5	54063.1	39751.4	29034.4	23187.8	18015.6	13050.2	8300.8	4307.5	2406.8	1615.5
0°	75734.1	54914.2	39865.4	29155.8	23296.5	18154.1	13451.0	8451.6	4335.1	2415.6	1627.2
-2.5°	74157.1	54116.6	39489.4	28799.2	22944.0	17843.8	13307.4	8681.9	4464.8	2451.0	1636.4
-5°	69686.6	51086.5	36995.1	27073.3	21564.2	16828.2	12592.1	8391.3	4419.7	2430.6	1634.3
-7.5°	63120.2	46170.6	33437.1	24857.2	19757.0	15408.9	11464.3	7602.1	4135.5	2303.0	1587.7
-10°	53717.4	39563.3	28754.8	22048.1	17530.8	13763.6	10202.6	6687.7	3736.1	2138.7	1531.1
-12.5°	44506.1	32605.8	23794.2	18711.0	14815.4	11648.6	8686.0	5654.0	3221.7	1939.5	1465.4
-15°	34378.1	25824.1	20211.1	15875.7	12221.7	9600.5	7109.8	4506.4	2601.1	1716.3	1391.3
-17.5°	27957.9	20885.2	16979.3	13675.0	10597.3	7818.1	5709.4	3706.5	2219.5	1559.0	1337.6
-20°	23132.9	18788.1	15032.2	11996.1	9319.6	6822.9	4586.4	2912.9	1933.8	1494.7	1299.8



REPORT NUMBER: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	20579.1	17060.4	13679.1	10607.6	8097.0	5778.6	3772.8	2307.0	1628.5	1427.8	1254.5
-25°	17998.2	15142.0	12160.2	9330.7	6798.7	4549.7	2873.5	1987.9	1558.7	1365.4	1201.2
-27.5°	15085.1	12638.0	10303.5	7685.3	5307.6	3460.9	2277.7	1693.4	1497.2	1317.6	1138.5
-30°	12053.4	10044.1	7983.9	5795.7	3938.0	2551.8	1859.0	1617.6	1436.8	1262.7	1081.4
-32.5°	9373.9	7570.2	5731.3	4087.8	2763.8	2046.5	1736.6	1538.4	1372.4	1192.8	1049.4
-35°	6942.0	5294.0	3799.6	2809.7	2119.0	1848.4	1650.3	1473.1	1288.4	1125.3	1019.7
-37.5°	4500.9	3340.3	2656.3	2099.0	1920.8	1741.8	1569.8	1382.1	1197.7	1085.3	987.2
-40°	2901.8	2294.5	2106.2	1940.4	1788.0	1643.3	1454.9	1270.9	1156.6	1042.1	951.5
-42.5°	2233.9	2080.8	1936.1	1797.5	1654.8	1490.1	1333.0	1225.3	1115.8	1009.1	929.0
-45°	2032.6	1908.1	1778.1	1638.8	1489.8	1376.5	1282.1	1179.2	1075.2	989.6	912.9
-47.5°	1846.9	1723.6	1598.1	1495.8	1398.7	1307.1	1221.2	1131.9	1050.4	968.4	851.2
-50°	1647.9	1562.9	1478.7	1396.9	1314.3	1232.4	1164.9	1102.8	1008.3	894.1	776.1
-52.5°	1511.8	1440.3	1369.0	1297.8	1239.3	1180.8	1118.9	1024.4	920.5	799.2	677.5
-55°	1385.8	1331.7	1283.1	1235.2	1180.0	1094.3	1007.2	909.5	799.5	683.3	573.0
-57.5°	1304.1	1248.2	1180.6	1113.8	1048.5	955.9	855.0	757.7	665.8	562.9	463.9
-60°	1139.9	1074.8	1004.6	930.3	852.5	768.6	685.8	604.0	523.9	440.8	358.4
-62.5°	913.1	843.7	782.8	720.2	655.2	587.1	518.3	452.5	386.1	318.7	264.0
-65°	675.0	621.1	569.2	520.7	470.0	417.2	360.8	313.4	270.8	226.2	181.6
-67.5°	458.2	418.6	378.6	341.7	311.6	280.1	245.4	208.7	181.5	158.8	134.4
-70°	290.6	266.1	241.8	217.7	198.2	181.6	163.0	143.8	124.9	107.0	88.3
-72.5°	176.6	163.3	150.5	138.2	125.2	113.2	100.3	86.5	72.1	57.2	46.5
-75°	98.7	91.3	83.2	74.5	64.8	54.2	48.3	44.6	40.6	36.3	31.7
-77.5°	50.2	46.8	43.6	40.9	38.2	35.6	32.9	29.7	27.4	25.2	23.2
-80°	31.2	29.7	28.3	27.4	26.4	25.1	23.7	22.0	20.4	18.9	17.8
-82.5°	22.6	21.7	20.7	19.7	18.6	17.5	16.4	15.6	14.8	14.0	13.3
-85°	15.0	14.2	13.5	12.9	12.2	11.6	11.1	10.6	10.1	9.5	8.9
-87.5°	9.3	8.8	8.2	8.1	8.0	7.8	7.6	7.1	6.6	6.1	5.7
-90°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1





REPORT NUMBER: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1
80°	3.1	2.6	2.3	2.1	2.2	2.1	2.1	2.1	2.4	2.5	2.4
77.5°	3.5	3.0	2.5	2.2	2.5	2.7	2.6	2.4	2.7	2.9	2.9
75°	3.5	2.9	2.4	2.3	2.8	3.3	3.4	3.3	3.2	3.3	3.4
72.5°	3.9	3.5	2.8	2.4	2.9	3.4	3.9	4.1	3.7	3.6	3.9
70°	6.5	4.6	3.8	3.4	3.3	3.5	4.0	4.2	4.2	3.9	4.0
67.5°	10.6	7.9	5.9	4.4	3.9	3.8	4.1	4.2	4.2	4.2	4.1
65°	15.0	11.4	8.2	6.1	4.7	4.1	4.2	4.2	4.2	4.2	4.2
62.5°	19.9	15.1	11.3	7.9	5.6	4.5	4.2	4.2	4.2	4.2	4.2
60°	25.1	18.9	14.4	10.5	7.0	4.7	4.2	4.2	4.2	4.2	4.2
57.5°	30.7	22.1	17.1	12.9	9.0	5.6	4.2	4.2	4.2	4.2	4.2
55°	34.4	26.0	20.0	15.0	10.9	7.2	4.8	4.2	4.2	4.2	4.2
52.5°	32.7	28.1	23.3	17.3	12.5	8.8	6.4	4.2	4.2	4.2	4.2
50°	28.4	27.7	25.0	19.9	14.0	10.6	8.0	5.5	4.2	4.2	4.2
47.5°	25.5	26.5	25.3	21.7	16.0	12.5	9.8	6.9	4.2	4.2	4.2
45°	24.3	24.7	25.0	22.4	18.5	14.8	11.6	8.2	5.4	4.3	4.2
42.5°	25.1	25.3	23.9	23.3	20.7	17.0	13.6	9.9	6.5	4.4	4.3
40°	33.9	28.3	24.4	25.0	23.2	19.0	15.4	11.7	7.7	4.9	4.4
37.5°	46.7	37.4	28.9	31.3	27.0	21.6	17.0	13.5	9.0	6.0	4.7
35°	78.3	52.4	48.4	45.9	35.9	24.5	18.4	15.1	10.7	7.0	4.9
32.5°	119.1	91.9	87.0	69.7	47.9	27.8	20.6	16.7	12.3	8.0	5.2
30°	197.0	173.1	138.5	99.9	66.1	39.1	24.2	18.5	13.8	8.9	5.6
27.5°	324.1	270.4	205.6	147.4	95.0	53.7	29.6	20.6	15.2	10.0	6.4
25°	463.5	388.7	299.3	206.8	128.1	83.5	35.9	23.1	16.8	11.1	7.1
22.5°	617.6	516.6	403.6	273.7	183.4	121.7	51.5	28.0	18.6	12.2	7.8
20°	778.1	650.0	511.1	342.6	246.4	169.3	79.4	33.4	20.5	13.2	8.4
17.5°	943.8	768.0	591.3	418.5	307.0	219.1	111.4	39.1	22.5	14.1	9.0
15°	1055.9	859.5	667.2	487.9	361.8	270.3	146.7	45.0	24.5	14.9	9.7
12.5°	1145.8	946.5	738.6	550.9	411.2	322.1	183.9	51.0	26.5	16.3	10.6
10°	1226.1	1028.2	804.7	607.5	455.7	373.6	222.0	57.2	30.0	18.2	11.5
7.5°	1297.1	1103.6	865.2	658.0	492.0	410.2	246.2	63.7	33.8	20.0	12.4
5°	1352.1	1158.6	905.0	680.6	504.0	428.9	264.6	69.7	37.5	21.9	13.2
2.5°	1368.6	1184.3	929.2	694.3	513.7	443.5	278.6	75.1	41.0	23.6	14.0
0°	1377.1	1200.5	946.1	702.2	521.4	454.1	288.0	79.9	44.2	25.2	14.7
-2.5°	1384.1	1205.6	955.0	716.4	537.1	462.5	303.8	103.0	59.6	33.9	18.6
-5°	1384.1	1201.9	956.3	725.2	550.5	467.3	315.4	124.9	74.4	42.2	22.4
-7.5°	1355.9	1175.5	943.6	728.1	561.0	469.5	323.2	145.3	88.1	49.9	25.9
-10°	1316.2	1132.7	915.7	723.6	574.3	476.3	329.0	163.7	100.4	56.8	29.1
-12.5°	1270.0	1083.6	886.4	717.1	587.3	487.4	337.8	180.0	111.1	62.6	31.9
-15°	1217.7	1029.2	857.7	709.6	599.3	496.6	342.2	193.4	119.2	67.3	34.3
-17.5°	1165.3	970.0	831.2	701.9	610.7	504.3	342.3	203.3	125.4	71.0	36.5
-20°	1122.6	933.3	809.2	695.0	621.7	510.7	338.0	209.3	129.2	73.2	38.5



REPORT NUMBER: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1073.8	918.0	801.2	700.5	628.9	516.3	329.3	211.2	130.6	74.0	39.8
-25°	1021.1	901.7	792.7	706.1	629.8	502.4	323.5	208.6	129.4	73.2	40.3
-27.5°	990.7	885.8	782.3	707.5	618.3	483.4	319.7	206.7	126.5	70.8	40.1
-30°	970.0	871.3	778.0	701.0	602.3	448.8	309.8	201.4	123.5	69.2	39.1
-32.5°	949.1	855.1	771.0	679.8	566.8	412.6	290.1	192.3	118.2	67.8	38.2
-35°	925.1	839.2	757.4	653.4	523.0	384.5	267.4	179.4	110.5	65.3	36.9
-37.5°	897.4	822.5	723.5	614.3	478.1	351.9	246.1	163.6	100.4	61.7	35.0
-40°	879.5	795.2	686.5	564.2	435.9	314.7	221.0	147.5	93.2	56.8	32.3
-42.5°	858.7	749.5	633.8	512.7	390.4	282.5	193.0	129.1	85.0	52.2	28.8
-45°	803.2	692.3	571.5	454.9	341.7	246.1	169.8	109.9	75.6	47.4	25.6
-47.5°	737.3	618.4	503.7	392.5	296.1	208.5	144.0	98.2	65.4	41.7	23.3
-50°	651.0	539.2	431.0	334.1	245.4	176.5	119.2	85.4	56.9	34.4	20.5
-52.5°	562.0	455.2	361.1	274.9	203.4	141.6	103.5	71.9	47.5	29.1	17.4
-55°	467.1	375.4	292.7	222.4	161.2	118.6	86.6	59.8	37.2	24.7	14.2
-57.5°	376.7	297.0	232.0	172.4	129.6	98.0	70.4	46.7	30.6	20.1	13.4
-60°	286.3	229.3	173.5	135.6	104.6	77.5	53.9	35.2	25.0	16.0	12.6
-62.5°	211.3	165.8	135.5	105.7	80.1	57.4	38.3	28.6	19.2	14.8	11.6
-65°	153.9	126.8	100.7	77.9	56.5	39.7	30.6	21.8	16.7	13.5	10.6
-67.5°	110.3	89.2	69.8	50.4	39.2	30.6	22.7	18.3	15.0	12.0	9.5
-70°	70.1	53.2	44.0	36.3	28.5	22.1	19.1	16.1	13.2	10.8	8.4
-72.5°	41.6	36.2	30.5	24.5	21.9	19.2	16.5	13.9	11.8	9.6	7.3
-75°	27.2	24.8	23.0	21.1	18.7	16.3	14.2	12.3	10.3	8.3	6.6
-77.5°	21.7	20.3	19.1	17.4	15.3	13.4	12.0	10.7	8.9	7.3	5.9
-80°	16.8	15.7	14.3	12.9	11.5	10.5	9.8	9.1	7.6	6.3	5.2
-82.5°	12.2	11.1	10.1	9.3	8.9	8.4	7.9	7.4	6.3	5.3	4.6
-85°	8.3	7.8	7.3	6.9	6.6	6.3	6.1	6.0	5.4	4.9	4.5
-87.5°	5.6	5.5	5.5	5.4	5.3	5.2	5.2	5.1	4.8	4.6	4.4
-90°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1



REPORT NUMBER: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	2.1	2.2	2.3	2.3	2.3	3.2	4.2
85°	2.1	2.3	2.5	2.5	2.5	3.2	4.2
82.5°	2.1	2.5	2.7	2.7	2.7	3.3	4.2
80°	2.2	2.6	2.8	2.9	2.8	3.3	4.2
77.5°	2.7	2.8	3.0	3.1	3.0	3.4	4.2
75°	3.3	3.1	3.2	3.4	3.2	3.4	4.2
72.5°	3.8	3.5	3.4	3.6	3.4	3.5	4.2
70°	4.2	3.8	3.6	3.8	3.6	3.6	4.2
67.5°	4.2	4.1	3.8	3.9	3.7	3.6	4.2
65°	4.2	4.2	3.9	3.9	3.9	3.7	4.2
62.5°	4.2	4.2	4.1	4.0	4.1	3.7	4.2
60°	4.2	4.2	4.2	4.0	4.2	3.7	4.2
57.5°	4.2	4.2	4.2	4.1	4.2	3.8	4.2
55°	4.2	4.2	4.2	4.1	4.2	3.8	4.2
52.5°	4.2	4.2	4.2	4.2	4.2	3.9	4.2
50°	4.2	4.2	4.2	4.2	4.2	3.9	4.2
47.5°	4.2	4.2	4.2	4.2	4.2	3.9	4.2
45°	4.2	4.2	4.2	4.2	4.2	4.0	4.2
42.5°	4.2	4.2	4.2	4.2	4.2	4.0	4.2
40°	4.2	4.2	4.2	4.2	4.2	4.0	4.2
37.5°	4.2	4.2	4.2	4.2	4.2	4.1	4.2
35°	4.2	4.2	4.2	4.2	4.2	4.1	4.2
32.5°	4.3	4.2	4.2	4.2	4.2	4.1	4.2
30°	4.5	4.2	4.2	4.2	4.2	4.1	4.2
27.5°	4.7	4.2	4.2	4.2	4.2	4.1	4.2
25°	5.0	4.2	4.2	4.2	4.2	4.2	4.2
22.5°	5.2	4.2	4.2	4.2	4.2	4.2	4.2
20°	5.5	4.4	4.2	4.2	4.2	4.2	4.2
17.5°	5.9	4.6	4.2	4.2	4.2	4.2	4.2
15°	6.3	4.8	4.2	4.2	4.2	4.2	4.2
12.5°	6.7	5.0	4.2	4.2	4.2	4.2	4.2
10°	7.1	5.3	4.2	4.2	4.2	4.2	4.2
7.5°	7.4	5.5	4.2	4.2	4.2	4.2	4.2
5°	7.8	5.8	4.2	4.2	4.2	4.2	4.2
2.5°	8.1	6.1	4.2	4.2	4.2	4.2	4.2
0°	8.4	6.3	4.2	4.2	4.2	4.2	4.2
-2.5°	10.3	7.0	4.4	4.2	4.2	4.2	4.2
-5°	12.2	7.6	4.6	4.2	4.2	4.2	4.2
-7.5°	14.0	8.2	4.7	4.2	4.2	4.2	4.2
-10°	15.6	8.8	4.9	4.2	4.2	4.2	4.2
-12.5°	17.0	9.2	5.0	4.2	4.2	4.2	4.2
-15°	18.2	9.6	5.1	4.2	4.2	4.2	4.2
-17.5°	19.2	9.9	5.2	4.2	4.2	4.2	4.2
-20°	19.9	10.0	5.3	4.2	4.2	4.2	4.2



REPORT NUMBER: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-4S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	20.7	10.0	5.3	4.2	4.2	4.2	4.2
-25°	21.0	10.1	5.3	4.2	4.2	4.2	4.2
-27.5°	20.9	10.1	5.3	4.2	4.2	4.2	4.2
-30°	20.4	9.9	5.2	4.2	4.2	4.2	4.2
-32.5°	19.4	9.5	5.3	4.2	4.2	4.2	4.2
-35°	18.6	8.9	5.3	4.2	4.2	4.2	4.2
-37.5°	17.9	8.4	5.3	4.2	4.2	4.2	4.2
-40°	16.8	8.4	5.3	4.2	4.2	4.2	4.2
-42.5°	15.5	8.3	5.3	4.2	4.2	4.2	4.2
-45°	13.8	8.2	5.4	4.3	4.2	4.2	4.2
-47.5°	11.8	8.0	5.4	4.3	4.2	4.2	4.2
-50°	11.3	7.7	5.4	4.3	4.2	4.2	4.2
-52.5°	10.8	7.4	5.4	4.4	4.2	4.2	4.2
-55°	10.4	7.2	5.3	4.4	4.2	4.2	4.2
-57.5°	9.8	7.0	5.1	4.4	4.2	4.2	4.2
-60°	9.2	6.6	5.0	4.4	4.2	4.2	4.2
-62.5°	8.6	6.2	4.9	4.3	4.2	4.2	4.2
-65°	7.9	5.8	4.8	4.3	4.2	4.2	4.2
-67.5°	7.1	5.4	4.7	4.3	4.2	4.2	4.2
-70°	6.2	5.2	4.5	4.2	4.2	4.2	4.2
-72.5°	5.7	4.9	4.4	4.2	4.2	4.2	4.2
-75°	5.3	4.6	4.2	4.2	4.2	4.2	4.2
-77.5°	4.8	4.3	4.2	4.2	4.2	4.2	4.2
-80°	4.3	4.2	4.2	4.2	4.2	4.2	4.2
-82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
-85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
-87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
-90°	2.1	2.1	2.1	2.1	2.1	3.2	4.2

(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

