

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: P731607 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-4S-CV2**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731607 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-25)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-70-4S-CV2
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

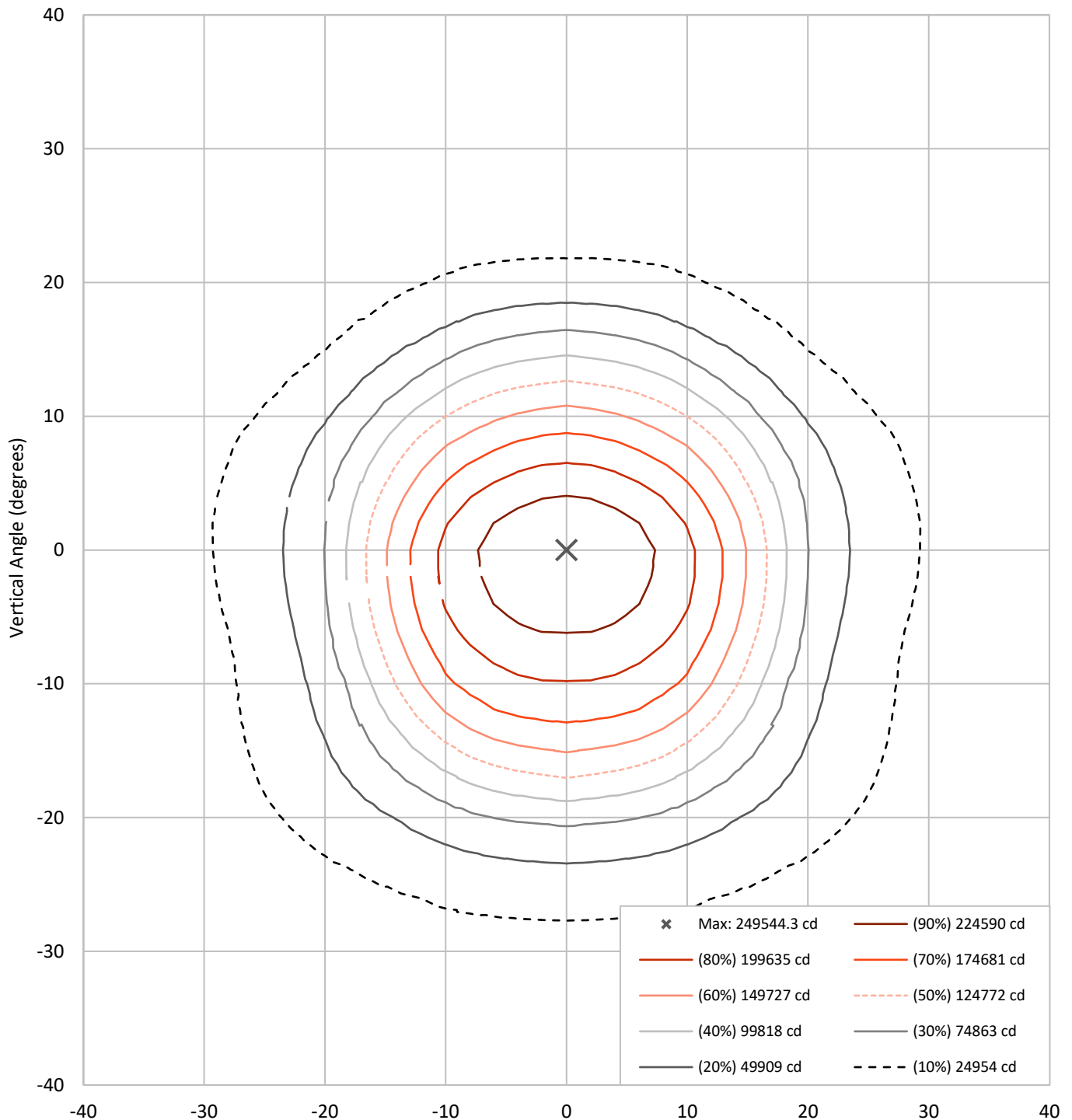
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	79865.5 lumens	Max Intensity:	249544.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	114.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.2°H x 29.7°V	Field Angle (10%):	58.6°H x 49.3°V
Beam Lumens:	43824.8 lumens	Field Lumens:	70216.8 lumens
Beam Efficiency:	54.9%	Field Efficiency:	87.9%

Input Watts (W): 697.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





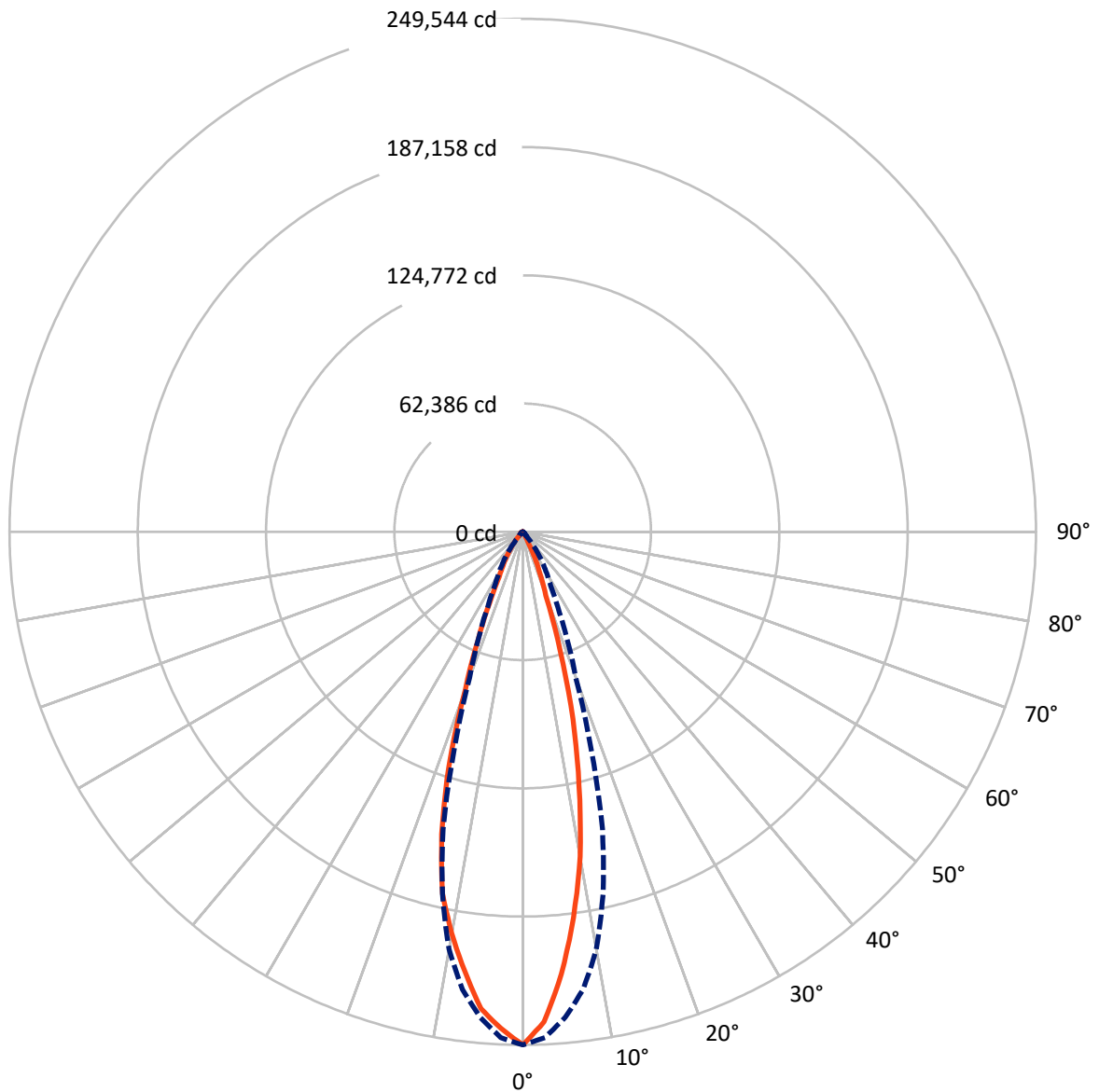
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Lumen Table

90	0.2		0.5		0.7		0.6		0.5		0.6		0.7		0.5		0.2		
80	0.2		0.5		0.7		0.6		0.5		0.6		0.7		0.5		0.2		
70	0.2	0.1	0.2	0.5	0.7	0.5	0.3	0.4	0.4	0.3	0.5	0.7	0.5	0.2	0.1	0.2			
60		0.2	0.3	0.9	0.9	0.4	0.3	0.4	0.4	0.3	0.4	0.9	0.9	0.3	0.2				
50	0.2	0.2	0.4	0.7	0.7	0.9	1.3	1.6	1.6	1.3	0.9	0.7	0.7	0.4	0.2	0.2			
40		0.2	0.9	1.9	3.3	7.5	15.1	20.7	20.7	15.1	7.5	3.3	1.9	0.9	0.2				
30	0.3	0.4	2.9	7.9	29.3	106.5	252.2	426.7	426.7	252.2	106.5	29.3	7.9	2.9	0.4	0.3			
20		1.0	6.5	21.0	129.3	447.7	1373.7	2595.5	2595.5	1373.7	447.7	129.3	21.0	6.5	1.0				
10	0.3	1.8	11.1	39.7	301.2	1072.6	3558.1	6011.9	6011.9	3558.1	1072.6	301.2	39.7	11.1	1.8	0.3			
0		3.0	14.8	47.1	313.9	1106.1	3993.4	6600.3	6600.3	3993.4	1106.1	313.9	47.1	14.8	3.0				
-10	0.5	3.6	15.1	40.6	244.9	815.4	2385.0	4166.7	4166.7	2385.0	815.4	244.9	40.6	15.1	3.6	0.5			
-20		3.3	13.0	27.9	105.8	387.0	805.5	1205.5	1205.5	805.5	387.0	105.8	27.9	13.0	3.3				
-30	0.4	2.6	9.9	19.3	36.4	104.5	237.3	335.2	335.2	237.3	104.5	36.4	19.3	9.9	2.6	0.4			
-40		1.6	6.7	14.6	23.9	36.3	53.2	69.7	69.7	53.2	36.3	23.9	14.6	6.7	1.6				
-50	0.3	0.8	3.5	9.6	17.7	25.5	32.8	37.1	37.1	32.8	25.5	17.7	9.6	3.5	0.8	0.3			
-60		0.3	1.3	4.0	8.6	14.8	21.2	24.9	24.9	21.2	14.8	8.6	4.0	1.3	0.3				
-70	0.2	0.9		3.1		8.4		11.8		8.4		3.1		0.9		0.2			
-80		0.9		3.1		8.4		11.8		8.4		3.1		0.9					
-90	0.2		0.9		3.1		8.4		11.8		8.4		3.1		0.9		0.2		

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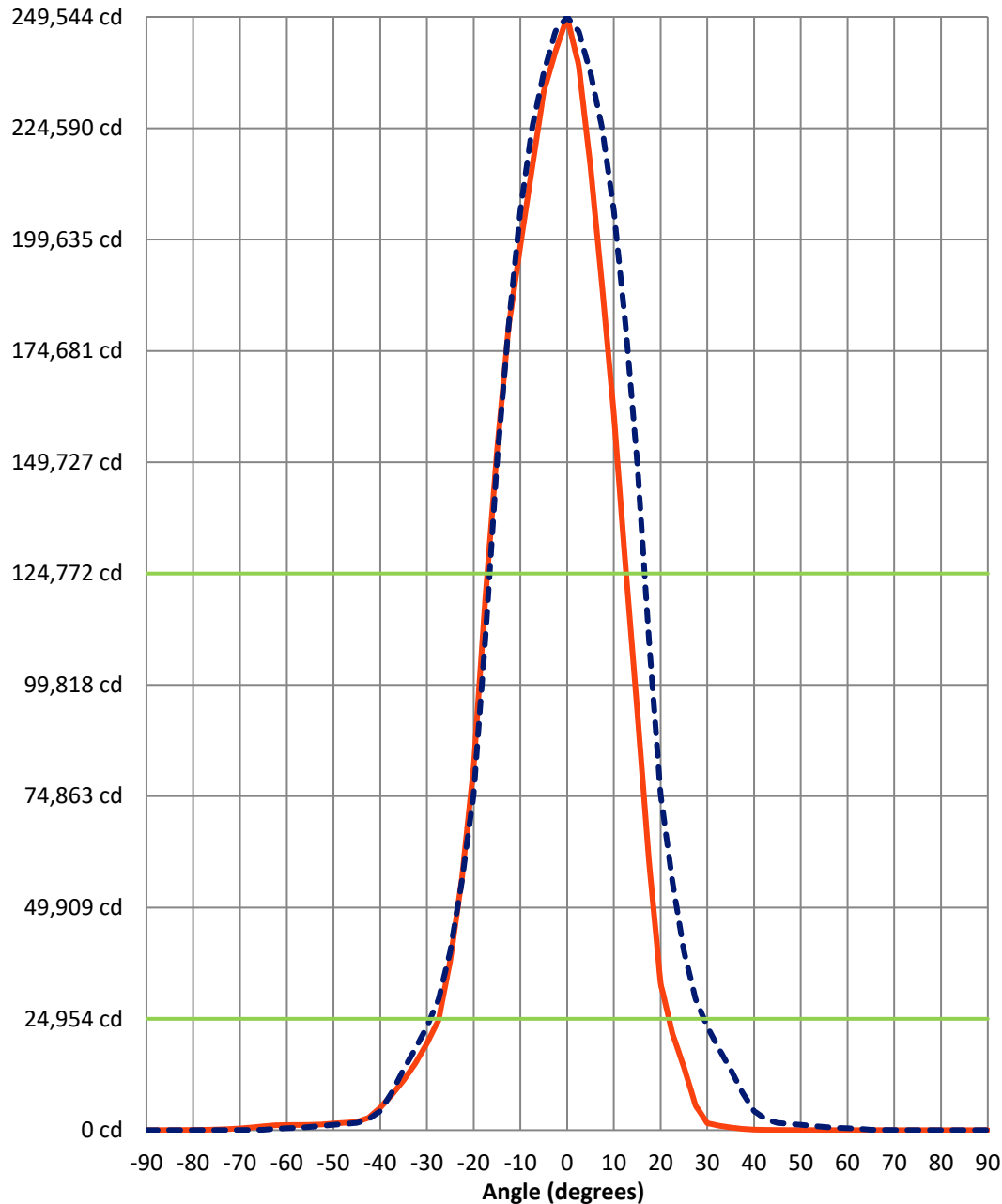
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 33.2°
 V Angle: 29.7°
 Lumens: 43824.8
 Efficiency: 54.9%

Field:
 H Angle: 58.6°
 V Angle: 49.3°
 Lumens: 70216.8
 Efficiency: 87.9%

Spill:
 Lumens: 9648.7
 Efficiency: 12.1%

— 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°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
87.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
85°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
82.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.9	8.8
80°	8.8	8.8	8.8	8.8	8.8	8.8	8.9	9.1	9.2	9.1	8.9
77.5°	8.8	8.8	8.8	8.8	8.8	9.0	9.4	9.7	9.6	9.4	8.9
75°	8.8	8.8	8.8	8.8	8.9	9.4	10.0	10.2	10.0	9.5	9.0
72.5°	8.8	8.8	8.8	8.8	9.2	9.9	10.5	10.6	10.1	9.6	9.0
70°	8.8	8.8	8.8	8.9	9.6	10.3	11.0	10.7	10.1	9.6	9.7
67.5°	8.8	8.8	8.8	9.1	10.0	10.8	11.0	10.7	10.2	10.2	10.5
65°	8.8	8.8	8.8	9.4	10.3	11.0	11.0	10.8	10.5	10.7	11.0
62.5°	8.8	8.8	8.8	9.6	10.6	11.0	11.0	10.9	10.8	11.0	11.0
60°	8.8	8.8	8.8	9.9	11.0	11.0	11.0	11.0	11.0	11.0	11.0
57.5°	8.8	8.8	9.0	10.1	11.0	11.0	11.0	11.0	11.0	11.0	11.0
55°	8.8	8.8	9.1	10.4	11.0	11.0	11.0	11.0	11.0	11.0	11.0
52.5°	8.8	8.8	9.3	10.6	11.0	11.0	11.0	11.0	11.0	11.0	11.0
50°	8.8	8.8	9.4	10.8	11.0	11.0	11.0	11.0	11.0	11.0	12.0
47.5°	8.8	8.8	9.6	11.0	11.0	11.0	11.0	11.0	11.0	11.0	13.0
45°	8.8	8.8	9.7	11.0	11.0	11.0	11.0	11.0	11.1	11.7	13.8
42.5°	8.8	8.8	9.8	11.0	11.0	11.0	11.0	11.1	11.2	12.3	14.3
40°	8.8	8.8	10.0	11.0	11.0	11.0	11.0	11.3	11.6	12.8	14.8
37.5°	8.8	8.8	10.1	11.0	11.0	11.0	11.0	11.5	12.2	13.5	15.2
35°	8.8	8.8	10.2	11.0	11.0	11.0	11.0	11.7	12.8	14.2	15.6
32.5°	8.8	8.8	10.3	11.0	11.0	11.0	11.1	12.0	13.4	14.9	16.7
30°	8.8	8.8	10.4	11.0	11.0	11.0	11.3	12.4	14.0	15.6	18.1
27.5°	8.8	8.8	10.5	11.0	11.0	11.0	11.5	12.9	14.5	16.2	19.8
25°	8.8	8.8	10.6	11.0	11.0	11.0	11.8	13.3	15.1	17.3	22.0
22.5°	8.8	8.8	10.7	11.0	11.0	11.0	12.1	13.8	15.6	18.8	26.6
20°	8.8	8.8	10.7	11.0	11.0	11.2	12.4	14.2	16.0	20.5	31.2
17.5°	8.8	8.8	10.8	11.0	11.0	11.4	12.6	14.6	16.5	22.3	35.9
15°	8.8	8.8	10.8	11.0	11.0	11.6	12.8	15.0	16.9	24.1	40.6
12.5°	8.8	8.8	10.9	11.0	11.0	11.9	13.0	15.4	18.1	26.0	45.2
10°	8.8	8.8	10.9	11.0	11.0	12.1	13.1	15.9	20.1	30.3	51.6
7.5°	8.8	8.8	11.0	11.0	11.0	12.4	13.2	16.4	22.2	35.0	62.1
5°	8.8	8.8	11.0	11.0	11.0	12.7	13.2	16.8	24.4	39.6	72.6
2.5°	8.8	8.8	11.0	11.0	11.0	12.9	13.2	17.2	26.5	44.1	82.8
0°	8.8	8.8	11.0	11.0	11.0	13.2	13.2	17.6	28.6	48.4	92.4
-2.5°	8.8	8.8	11.0	11.0	11.0	13.2	14.4	21.0	36.9	64.1	119.6
-5°	8.8	8.8	11.0	11.0	11.0	13.2	15.5	24.3	44.8	79.1	145.2
-7.5°	8.8	8.8	11.0	11.0	11.0	13.1	16.5	27.3	52.0	92.9	168.5
-10°	8.8	8.8	10.9	11.0	11.0	13.0	17.5	30.0	58.4	105.3	189.1
-12.5°	8.8	8.8	10.9	11.0	11.0	12.9	18.2	32.3	63.7	115.7	202.6
-15°	8.8	8.8	10.8	11.0	11.0	12.8	18.7	34.0	68.2	123.8	211.4
-17.5°	8.8	8.8	10.8	11.0	11.0	12.7	19.0	35.9	71.9	129.7	217.3
-20°	8.8	8.8	10.7	11.0	11.0	12.5	19.4	37.7	74.0	133.4	220.1



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	8.8	8.8	10.7	11.0	11.0	12.4	20.2	38.9	74.5	134.6	219.6
-25°	8.8	8.8	10.6	11.0	11.0	12.5	20.6	39.3	73.2	133.2	215.6
-27.5°	8.8	8.8	10.5	11.0	11.0	12.7	20.5	38.9	70.0	130.1	213.4
-30°	8.8	8.8	10.4	11.0	11.0	12.8	19.9	37.8	68.0	126.3	207.8
-32.5°	8.8	8.8	10.3	11.0	11.1	12.7	18.8	36.9	66.5	120.0	198.5
-35°	8.8	8.8	10.2	11.0	11.2	12.4	18.3	35.6	63.9	110.9	185.5
-37.5°	8.8	8.8	10.1	11.0	11.3	12.2	18.0	33.5	60.2	99.1	165.2
-40°	8.8	8.8	10.0	11.0	11.3	12.2	17.4	30.7	55.2	91.3	145.4
-42.5°	8.8	8.8	9.8	11.0	11.4	12.3	16.5	27.0	50.5	82.7	124.5
-45°	8.8	8.8	9.7	11.1	11.5	12.3	15.4	23.9	45.4	73.0	104.3
-47.5°	8.8	8.8	9.6	11.1	11.5	12.3	14.0	22.2	39.2	62.7	92.7
-50°	8.8	8.8	9.4	11.0	11.6	12.2	13.7	20.1	31.6	53.9	80.3
-52.5°	8.8	8.8	9.3	10.8	11.7	12.1	13.5	17.6	26.9	44.5	67.4
-55°	8.8	8.8	9.1	10.6	11.7	12.2	13.3	15.1	23.2	34.3	55.8
-57.5°	8.8	8.8	9.0	10.4	11.8	12.2	13.0	14.7	19.3	28.3	43.4
-60°	8.8	8.8	8.8	10.2	11.8	12.3	12.8	14.3	15.8	23.2	32.6
-62.5°	8.8	8.8	8.8	10.0	11.5	12.3	12.8	13.8	15.2	17.7	26.1
-65°	8.8	8.8	8.8	9.8	11.2	12.4	12.9	13.4	14.6	16.0	19.3
-67.5°	8.8	8.8	8.8	9.5	10.9	12.2	13.0	13.4	14.0	15.3	16.6
-70°	8.8	8.8	8.8	9.3	10.6	11.8	13.0	13.3	13.8	14.6	15.8
-72.5°	8.8	8.8	8.8	9.2	10.2	11.4	12.6	13.2	13.5	14.1	15.0
-75°	8.8	8.8	8.8	9.2	9.9	11.0	12.1	12.7	13.2	13.6	14.2
-77.5°	8.8	8.8	8.8	9.1	9.7	10.5	11.6	12.1	12.5	13.0	13.4
-80°	8.8	8.8	8.8	9.1	9.5	10.2	11.0	11.4	11.8	12.2	12.5
-82.5°	8.8	8.8	8.8	9.0	9.4	9.9	10.5	10.8	11.1	11.3	11.6
-85°	8.8	8.8	8.8	8.9	9.2	9.5	9.9	10.1	10.3	10.5	10.7
-87.5°	8.8	8.8	8.8	8.9	9.0	9.2	9.4	9.5	9.6	9.6	9.7
-90°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8



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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°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.3	7.7	7.2
87.5°	8.3	7.7	7.2	6.6	6.6	6.6	6.6	6.6	6.1	5.5	5.0
85°	8.3	7.7	7.3	6.9	7.0	6.9	6.8	6.6	6.3	6.1	5.9
82.5°	8.5	8.3	8.2	8.2	8.0	7.7	7.2	6.7	6.6	6.6	6.6
80°	8.7	8.8	8.8	8.8	8.3	7.8	7.2	6.7	6.6	6.7	6.7
77.5°	8.8	8.8	8.8	8.8	8.4	8.0	7.8	7.8	7.8	7.6	7.3
75°	8.8	8.8	8.9	8.9	8.7	8.7	8.8	8.8	8.5	7.9	7.4
72.5°	9.2	9.4	9.4	9.1	8.8	8.8	8.8	8.8	9.1	9.2	9.0
70°	10.0	10.1	9.7	9.2	8.8	9.2	10.3	11.4	12.2	12.3	12.6
67.5°	10.8	10.3	9.8	9.5	10.5	11.9	13.2	14.9	16.8	17.4	18.3
65°	10.9	10.4	10.4	11.4	13.0	14.7	16.7	18.9	23.7	26.6	28.0
62.5°	11.0	10.9	11.5	13.1	15.4	17.5	20.9	26.3	33.4	38.4	38.6
60°	11.0	11.2	12.9	15.3	17.7	20.6	25.7	33.8	44.6	52.7	48.1
57.5°	11.0	12.2	14.8	17.2	19.6	22.9	30.8	41.3	52.3	63.9	54.6
55°	11.6	14.0	16.5	18.7	21.7	26.0	34.1	44.0	56.1	59.5	48.9
52.5°	13.0	15.5	17.5	20.1	23.9	27.9	33.7	42.3	46.2	47.1	40.6
50°	14.3	16.2	18.3	21.4	25.3	28.7	30.4	35.6	37.0	35.2	31.7
47.5°	15.1	16.9	18.8	22.3	26.2	29.1	29.2	29.4	28.9	28.4	23.4
45°	15.7	17.6	19.5	23.3	27.5	30.0	28.6	24.5	27.9	26.9	25.7
42.5°	16.3	18.2	21.4	24.5	29.9	31.5	29.2	30.3	31.2	32.5	33.0
40°	16.8	18.9	24.1	30.0	33.1	33.9	37.4	40.2	39.0	42.7	44.8
37.5°	17.3	21.8	29.1	40.1	36.6	41.4	48.2	59.2	59.7	56.2	64.6
35°	17.7	25.2	41.5	53.3	50.4	53.3	71.4	85.9	90.2	85.4	90.8
32.5°	19.9	29.1	57.0	69.3	76.4	80.0	100.5	122.3	138.6	141.8	128.4
30°	23.9	43.2	74.8	88.6	109.1	128.9	143.2	169.5	203.1	229.2	240.0
27.5°	29.2	60.5	93.4	118.4	149.6	183.3	208.0	240.8	295.5	342.5	381.2
25°	34.8	84.0	114.1	154.8	201.1	244.7	282.8	337.5	409.9	487.9	623.6
22.5°	47.4	110.7	145.4	195.0	256.1	310.8	374.1	451.8	544.6	651.7	903.2
20°	67.8	137.1	183.1	239.8	315.2	380.0	469.3	568.5	695.1	923.4	1350.5
17.5°	89.7	165.4	221.7	292.8	386.4	468.2	568.4	684.3	852.0	1217.4	2058.6
15°	112.3	195.2	258.5	348.9	464.2	581.0	701.9	828.1	1068.1	1633.4	2960.2
12.5°	135.3	225.7	293.4	406.9	546.6	698.7	842.8	1003.5	1350.6	2348.3	4295.8
10°	157.8	256.5	326.4	465.5	631.6	819.0	982.6	1171.8	1644.1	2996.0	5490.2
7.5°	195.0	296.6	361.7	523.3	717.2	939.3	1119.8	1332.2	1930.9	3560.5	6590.3
5°	234.2	345.8	418.0	593.9	801.6	1046.5	1243.9	1483.4	2202.4	4035.4	7622.1
2.5°	271.7	393.2	473.0	661.7	880.8	1129.9	1322.6	1568.0	2347.5	4257.4	8259.5
0°	305.9	437.9	526.0	724.0	952.9	1203.8	1393.0	1641.7	2436.1	4300.1	8463.8
-2.5°	347.4	487.0	580.8	773.5	992.3	1247.2	1437.7	1697.6	2527.7	4540.6	8500.7
-5°	383.0	532.5	633.0	817.6	1025.4	1281.0	1475.1	1741.3	2570.5	4650.0	8322.0
-7.5°	411.8	574.1	682.3	852.5	1042.5	1287.8	1488.7	1748.5	2540.6	4593.6	7956.2
-10°	429.2	591.6	694.3	851.9	1036.9	1273.5	1488.9	1742.2	2454.9	4359.8	7442.6
-12.5°	416.6	586.8	696.5	845.5	1026.4	1249.4	1478.3	1722.2	2308.7	3928.1	6841.6
-15°	401.1	579.0	695.0	833.1	1011.2	1215.6	1456.3	1688.2	2081.0	3258.6	6099.4
-17.5°	383.2	568.2	689.8	814.8	992.0	1172.0	1411.6	1599.6	1845.3	2776.4	5243.7
-20°	363.9	554.6	680.4	790.4	968.4	1109.3	1306.3	1500.0	1724.1	2361.0	4092.8



REPORT NUMBER: P731607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	343.6	538.4	664.9	774.6	908.4	1037.0	1195.6	1385.4	1590.8	1844.9	2868.5
-25°	331.8	508.0	642.6	737.9	843.5	963.2	1081.9	1257.1	1451.6	1656.2	2195.0
-27.5°	325.6	478.6	606.1	701.3	781.0	889.5	990.4	1130.2	1310.5	1485.5	1656.2
-30°	315.1	436.9	568.9	663.3	735.6	821.1	908.1	1021.4	1181.5	1335.1	1476.7
-32.5°	292.4	394.5	523.2	621.1	695.5	757.8	843.7	945.0	1068.1	1201.6	1315.4
-35°	264.5	361.2	473.8	578.9	656.0	714.9	792.3	877.4	967.8	1083.5	1219.8
-37.5°	238.6	324.9	424.7	531.7	610.5	682.3	741.7	818.3	896.4	982.0	1118.3
-40°	210.7	285.9	380.3	478.6	569.9	644.3	706.1	763.3	831.6	917.2	1008.3
-42.5°	181.8	253.1	334.8	426.6	518.3	598.5	668.6	721.4	779.7	853.5	934.5
-45°	157.8	218.4	288.2	375.1	461.5	546.1	617.5	684.2	740.0	794.3	864.3
-47.5°	132.7	184.3	248.6	322.7	404.7	484.0	561.4	635.0	706.1	756.8	799.7
-50°	109.8	156.0	208.4	276.4	348.1	422.3	494.7	580.9	656.2	720.2	770.0
-52.5°	95.2	126.8	175.0	230.8	295.2	362.0	433.5	512.8	594.4	670.5	728.8
-55°	79.8	107.0	141.0	189.3	244.0	304.5	371.4	444.2	518.4	594.8	669.5
-57.5°	64.9	89.1	115.1	148.7	196.1	247.9	309.2	373.8	442.0	511.5	580.5
-60°	50.0	71.1	94.5	119.1	148.1	194.7	245.5	302.2	362.9	425.2	487.5
-62.5°	35.7	53.0	73.6	95.8	118.7	144.1	185.1	232.3	281.3	333.0	387.2
-65°	27.7	36.7	52.0	71.5	92.4	114.5	139.0	165.6	206.4	246.5	284.6
-67.5°	19.5	27.8	36.0	46.1	64.0	83.0	103.5	125.6	149.3	172.7	200.1
-70°	17.3	19.7	26.2	33.5	40.5	49.8	66.5	84.4	102.7	120.5	140.0
-72.5°	16.3	18.0	20.4	23.2	29.1	34.9	40.5	46.0	56.9	71.4	85.8
-75°	15.1	16.2	17.9	20.0	22.3	24.7	27.6	32.5	37.0	41.4	45.7
-77.5°	14.0	14.7	15.7	16.8	18.2	20.1	22.0	24.2	26.0	27.8	29.6
-80°	12.8	13.2	13.7	14.4	15.3	16.2	17.3	18.5	19.4	20.4	21.5
-82.5°	11.8	12.1	12.3	12.6	12.7	13.0	13.3	14.0	14.6	15.1	15.7
-85°	10.8	11.0	11.2	11.3	11.1	10.9	10.7	10.6	10.9	11.1	11.4
-87.5°	9.8	9.9	10.0	10.1	9.8	9.5	9.2	8.8	8.7	8.5	8.5
-90°	8.3	7.7	7.2	6.6	6.6	6.6	6.6	6.6	6.1	5.5	5.0



REPORT NUMBER: P731607 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	6.6	6.6	6.6	6.6	6.6	7.7	8.8	9.9	11.0	12.1	13.2
87.5°	4.4	4.4	4.4	4.4	4.4	3.9	3.3	2.8	2.2	2.2	2.2
85°	5.8	5.5	5.2	4.8	4.4	4.3	4.3	4.2	4.3	3.8	3.3
82.5°	6.6	6.1	5.5	5.0	4.4	4.4	4.4	4.4	4.4	3.9	3.3
80°	6.6	6.1	5.6	5.0	4.5	4.4	4.4	4.4	4.4	3.9	3.3
77.5°	6.7	6.3	5.9	5.7	5.6	5.5	5.2	4.9	4.5	3.9	3.4
75°	6.8	6.7	6.8	6.8	6.7	6.2	5.6	5.1	4.5	4.3	4.3
72.5°	8.6	8.3	8.2	8.4	8.3	8.1	7.7	7.1	6.3	6.2	6.4
70°	12.9	13.1	13.3	13.1	12.3	11.3	10.4	9.5	8.6	8.4	8.5
67.5°	19.5	19.8	19.1	17.7	15.5	13.4	12.6	11.7	10.8	10.5	10.7
65°	28.0	25.9	23.7	21.2	18.3	15.2	14.3	13.5	12.8	12.9	13.6
62.5°	36.2	29.5	23.8	20.1	17.4	15.2	14.2	13.2	12.3	11.8	12.2
60°	39.9	28.3	20.6	18.2	15.9	13.6	12.3	11.2	10.3	9.6	10.0
57.5°	40.0	27.7	19.0	16.2	13.8	11.7	10.6	10.0	9.4	8.9	9.5
55°	35.6	24.6	16.2	13.9	12.5	11.5	10.9	10.7	10.5	10.2	10.6
52.5°	28.6	20.6	15.0	13.0	13.1	13.1	13.0	13.0	13.3	13.6	14.2
50°	22.8	17.5	15.9	15.0	15.5	15.6	15.3	16.1	17.3	17.9	18.5
47.5°	20.8	19.2	19.3	18.8	19.6	21.1	21.4	22.1	23.8	24.8	25.6
45°	23.2	24.9	25.9	27.7	28.8	31.3	32.2	32.2	35.8	38.3	39.6
42.5°	32.4	35.2	38.6	42.1	43.8	47.1	50.4	52.2	57.7	62.0	63.7
40°	48.9	50.5	57.8	62.2	65.5	69.6	79.8	86.5	97.1	116.9	131.3
37.5°	71.9	77.2	81.5	87.8	101.6	108.4	141.0	170.6	190.9	240.0	267.8
35°	105.3	119.8	114.8	143.0	177.8	221.6	269.2	340.2	396.4	462.8	524.2
32.5°	165.1	200.5	234.7	267.4	345.7	471.3	474.7	607.5	696.4	804.1	898.9
30°	261.3	386.3	543.6	595.6	816.0	1062.4	994.1	1197.8	1399.6	1519.7	1934.2
27.5°	515.7	797.4	1109.8	1506.9	1917.6	2341.2	2621.7	2719.9	3741.1	4491.9	5469.4
25°	882.4	1376.6	2249.5	2892.6	3613.8	4554.5	5097.9	5829.3	7532.7	9655.4	11304.1
22.5°	1406.1	2269.7	3423.1	4396.2	5477.3	6745.0	7891.5	9645.2	12293.9	15191.4	17656.2
20°	1993.2	3106.6	4568.0	6025.9	7443.1	9095.1	11090.0	14671.0	18763.7	23305.5	27411.5
17.5°	3076.2	4171.1	6042.6	8035.7	10049.2	12039.1	16425.8	21729.3	28136.2	34866.0	40843.3
15°	4623.8	6395.9	8252.1	10887.7	14239.0	18063.0	23618.6	32920.6	42871.1	53374.1	65895.1
12.5°	6643.5	9212.5	11997.1	15048.6	19592.4	26573.2	35789.2	47143.2	61386.0	77143.1	94960.0
10°	8704.6	12409.6	16244.4	20602.5	26591.2	35582.9	47484.7	61701.1	84100.0	106177.1	124772.3
7.5°	10380.4	14698.3	19536.5	25325.7	33131.3	44087.3	58795.3	79341.4	106053.3	132321.1	153123.7
5°	11952.7	16695.9	21732.7	27647.6	37058.0	50269.9	67982.7	93616.7	125573.1	153509.3	175800.4
2.5°	13093.1	18075.6	23286.4	29304.8	40033.6	54028.2	73474.9	105272.2	142053.8	170676.2	196235.3
0°	13597.9	18208.3	23192.8	29367.9	40131.3	55945.3	75379.4	110193.9	149682.6	180453.4	206127.4
-2.5°	12972.0	17448.0	22591.7	28624.3	39413.9	54605.3	74680.1	109639.6	149264.1	180470.5	205782.9
-5°	12309.7	16553.1	21328.0	26904.3	36742.8	50868.2	71350.0	104752.5	142776.6	174149.9	198841.8
-7.5°	11603.8	15487.5	19759.4	24762.4	33490.8	47083.6	66102.2	94294.1	129836.3	161779.8	185002.5
-10°	10796.7	14332.2	18824.6	24127.1	31725.6	43541.4	59269.7	81854.8	115144.7	144823.5	170320.7
-12.5°	10322.8	14093.8	18583.0	23453.5	29582.8	39995.6	54306.2	73571.7	96359.6	123928.1	146615.5
-15°	9713.7	13530.9	17982.9	22552.4	28225.9	36355.9	47654.8	61805.3	79144.8	97722.6	117860.0
-17.5°	8712.4	12527.3	16112.5	20401.1	25789.9	32213.2	40332.8	51314.6	62819.5	75982.7	88030.6
-20°	7063.3	10144.9	13535.4	17576.2	22208.6	27076.1	32498.5	39981.0	47279.0	56494.5	63892.6



REPORT NUMBER: P731607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5081.7	7686.5	10624.0	13963.5	17631.9	21799.2	25883.9	29832.6	34834.2	40667.5	46611.8
-25°	3309.6	5236.7	7780.3	10517.3	13079.4	16409.7	19344.3	21702.6	25075.3	27714.8	31317.1
-27.5°	2291.8	3544.3	5439.2	7619.9	9640.8	11772.5	14161.5	15771.5	18398.8	19826.7	22034.9
-30°	1676.9	2379.9	3742.7	5373.8	7134.3	8948.8	10654.3	12424.6	14252.2	15868.3	17093.8
-32.5°	1487.1	1763.2	2435.3	3609.2	4986.9	6508.3	7952.6	9495.8	10951.8	12204.5	13215.5
-35°	1358.2	1513.1	1724.2	2344.9	3167.0	4354.9	5491.1	6740.3	7909.8	8878.2	9689.8
-37.5°	1256.1	1380.1	1513.0	1649.2	2110.7	2630.6	3438.2	4306.4	5056.8	5914.2	6576.5
-40°	1140.2	1272.7	1379.1	1487.8	1610.1	1740.6	2177.7	2566.4	2990.4	3569.2	4042.2
-42.5°	1020.6	1135.9	1255.8	1356.9	1449.2	1546.7	1645.0	1732.1	1947.4	2202.6	2396.2
-45°	937.9	1019.4	1107.2	1214.5	1313.9	1398.4	1477.9	1554.0	1632.2	1704.4	1764.3
-47.5°	864.9	930.9	1003.2	1076.9	1151.6	1238.5	1320.0	1397.4	1465.1	1526.7	1576.2
-50°	811.7	857.3	917.5	975.6	1039.6	1100.1	1154.3	1217.7	1287.1	1350.2	1400.5
-52.5°	784.8	824.7	859.2	900.9	958.6	1009.4	1053.9	1104.1	1152.3	1196.6	1229.0
-55°	731.9	784.0	834.5	881.4	921.2	957.4	996.0	1045.3	1087.7	1124.1	1144.2
-57.5°	648.9	715.9	779.4	838.9	894.9	947.6	991.2	1030.4	1069.6	1106.8	1124.0
-60°	550.8	614.9	681.1	752.8	825.0	896.9	949.9	1000.4	1048.0	1087.9	1109.1
-62.5°	445.4	503.7	563.1	627.6	696.3	763.6	821.4	881.6	943.4	996.6	1030.6
-65°	325.7	375.4	428.5	481.4	533.7	587.5	639.0	689.7	739.0	778.9	806.7
-67.5°	233.5	265.6	298.4	332.3	372.8	414.3	452.4	489.3	524.5	552.7	573.5
-70°	160.5	181.2	200.6	222.2	248.1	273.3	296.8	319.1	340.0	357.7	372.5
-72.5°	99.9	113.4	126.8	142.0	156.8	170.9	184.2	196.6	208.1	218.7	228.1
-75°	50.1	56.5	67.1	77.3	86.8	96.7	105.9	113.9	120.9	126.7	131.7
-77.5°	32.5	36.5	40.5	44.1	47.5	52.1	57.2	62.4	67.5	71.7	75.6
-80°	22.8	24.9	27.4	29.8	32.2	35.1	38.1	41.0	43.9	45.7	47.4
-82.5°	16.2	17.5	18.8	20.2	21.6	23.7	25.8	27.8	29.8	31.2	32.6
-85°	11.6	12.2	12.8	13.5	14.1	16.0	17.9	19.7	21.5	22.7	23.9
-87.5°	8.4	8.5	8.5	8.6	8.6	10.2	11.9	13.6	15.2	15.9	16.4
-90°	4.4	4.4	4.4	4.4	4.4	3.9	3.3	2.8	2.2	2.2	2.2



REPORT NUMBER: P731607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	14.3	15.4	15.4	15.4	15.4	15.4	14.3	13.2	12.1	11.0	9.9
87.5°	2.2	2.2	1.1	0.0	1.1	2.2	2.2	2.2	2.2	2.2	2.8
85°	2.7	2.2	2.2	2.2	2.2	2.2	2.7	3.3	3.8	4.3	4.2
82.5°	2.8	2.2	2.2	2.2	2.2	2.2	2.8	3.3	3.9	4.4	4.4
80°	2.8	2.2	2.2	2.2	2.2	2.2	2.8	3.3	3.9	4.4	4.4
77.5°	2.8	2.2	2.2	2.2	2.2	2.2	2.8	3.4	3.9	4.5	4.9
75°	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.5	5.1
72.5°	6.5	6.5	6.6	6.6	6.6	6.5	6.5	6.4	6.2	6.3	7.1
70°	8.6	8.7	7.8	6.6	7.8	8.7	8.6	8.5	8.4	8.6	9.5
67.5°	10.8	10.9	12.0	13.2	12.0	10.9	10.8	10.7	10.5	10.8	11.7
65°	14.3	15.1	14.4	13.2	14.4	15.1	14.3	13.6	12.9	12.8	13.5
62.5°	12.7	13.2	12.3	11.0	12.3	13.2	12.7	12.2	11.8	12.3	13.2
60°	10.4	10.9	11.0	11.0	11.0	10.9	10.4	10.0	9.6	10.3	11.2
57.5°	10.1	10.8	11.0	11.0	11.0	10.8	10.1	9.5	8.9	9.4	10.0
55°	10.9	11.0	11.0	11.0	11.0	11.0	10.9	10.6	10.2	10.5	10.7
52.5°	14.7	15.1	15.3	15.4	15.3	15.1	14.7	14.2	13.6	13.3	13.0
50°	19.1	19.5	19.7	19.8	19.7	19.5	19.1	18.5	17.9	17.3	16.1
47.5°	26.1	26.2	26.3	26.4	26.3	26.2	26.1	25.6	24.8	23.8	22.1
45°	40.2	39.7	39.3	39.6	39.3	39.7	40.2	39.6	38.3	35.8	32.2
42.5°	65.4	65.5	65.4	66.0	65.4	65.5	65.4	63.7	62.0	57.7	52.2
40°	135.2	130.4	123.4	123.2	123.4	130.4	135.2	131.3	116.9	97.1	86.5
37.5°	281.5	286.4	285.8	290.5	285.8	286.4	281.5	267.8	240.0	190.9	170.6
35°	570.9	596.5	602.3	600.8	602.3	596.5	570.9	524.2	462.8	396.4	340.2
32.5°	940.2	974.3	983.8	996.9	983.8	974.3	940.2	898.9	804.1	696.4	607.5
30°	1653.1	1698.8	1655.3	1566.9	1655.3	1698.8	1653.1	1934.2	1519.7	1399.6	1197.8
27.5°	5989.9	6209.6	5715.2	5534.7	5715.2	6209.6	5989.9	5469.4	4491.9	3741.1	2719.9
25°	12207.3	13178.9	14174.7	14086.5	14174.7	13178.9	12207.3	11304.1	9655.4	7532.7	5829.3
22.5°	19701.0	20685.5	21506.1	21788.8	21506.1	20685.5	19701.0	17656.2	15191.4	12293.9	9645.2
20°	31204.7	33122.2	34495.1	33032.0	34495.1	33122.2	31204.7	27411.5	23305.5	18763.7	14671.0
17.5°	49878.8	55653.0	58652.7	60546.9	58652.7	55653.0	49878.8	40843.3	34866.0	28136.2	21729.3
15°	77428.3	86136.4	90960.7	94155.4	90960.7	86136.4	77428.3	65895.1	53374.1	42871.1	32920.6
12.5°	109199.6	118694.0	122958.0	126438.1	122958.0	118694.0	109199.6	94960.0	77143.1	61386.0	47143.2
10°	139402.6	149660.0	156761.8	160452.6	156761.8	149660.0	139402.6	124772.3	106177.1	84100.0	61701.1
7.5°	167075.8	179623.4	186830.1	189124.0	186830.1	179623.4	167075.8	153123.7	132321.1	106053.3	79341.4
5°	194143.9	205339.2	214005.9	215971.0	214005.9	205339.2	194143.9	175800.4	153509.3	125573.1	93616.7
2.5°	214985.1	228402.4	236183.4	238535.6	236183.4	228402.4	214985.1	196235.3	170676.2	142053.8	105272.2
0°	224536.0	237027.0	246240.0	249544.3	246240.0	237027.0	224536.0	206127.4	180453.4	149682.6	110193.9
-2.5°	222538.3	234049.5	240644.1	241780.4	240644.1	234049.5	222538.3	205782.9	180470.5	149264.1	109639.6
-5°	215512.3	226088.7	232602.2	232788.5	232602.2	226088.7	215512.3	198841.8	174149.9	142776.6	104752.5
-7.5°	200079.4	209969.5	214510.4	215650.8	214510.4	209969.5	200079.4	185002.5	161779.8	129836.3	94294.1
-10°	184371.5	193547.0	197838.1	198312.9	197838.1	193547.0	184371.5	170320.7	144823.5	115144.7	81854.8
-12.5°	164024.9	173842.7	178127.1	180142.0	178127.1	173842.7	164024.9	146615.5	123928.1	96359.6	73571.7
-15°	133746.7	143240.4	148380.5	152175.9	148380.5	143240.4	133746.7	117860.0	97722.6	79144.8	61805.3
-17.5°	101303.9	109441.3	114506.6	119117.6	114506.6	109441.3	101303.9	88030.6	75982.7	62819.5	51314.6
-20°	72124.1	77306.3	78898.1	81382.8	78898.1	77306.3	72124.1	63892.6	56494.5	47279.0	39981.0



REPORT NUMBER: P731607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	50656.4	53602.9	55469.3	56524.1	55469.3	53602.9	50656.4	46611.8	40667.5	34834.2	29832.6
-25°	34341.5	36384.9	37179.7	38095.7	37179.7	36384.9	34341.5	31317.1	27714.8	25075.3	21702.6
-27.5°	23003.4	23842.5	24415.5	24726.7	24415.5	23842.5	23003.4	22034.9	19826.7	18398.8	15771.5
-30°	18080.3	18847.6	19307.8	19453.9	19307.8	18847.6	18080.3	17093.8	15868.3	14252.2	12424.6
-32.5°	13998.2	14578.2	14888.2	14929.3	14888.2	14578.2	13998.2	13215.5	12204.5	10951.8	9495.8
-35°	10370.2	10898.5	11191.0	11170.6	11191.0	10898.5	10370.2	9689.8	8878.2	7909.8	6740.3
-37.5°	7146.0	7593.8	7868.6	7940.0	7868.6	7593.8	7146.0	6576.5	5914.2	5056.8	4306.4
-40°	4470.4	4799.4	4995.8	5021.9	4995.8	4799.4	4470.4	4042.2	3569.2	2990.4	2566.4
-42.5°	2566.2	2699.4	2774.2	2770.6	2774.2	2699.4	2566.2	2396.2	2202.6	1947.4	1732.1
-45°	1803.6	1833.4	1850.3	1853.0	1850.3	1833.4	1803.6	1764.3	1704.4	1632.2	1554.0
-47.5°	1612.0	1640.3	1655.4	1657.1	1655.4	1640.3	1612.0	1576.2	1526.7	1465.1	1397.4
-50°	1440.9	1474.4	1492.7	1496.5	1492.7	1474.4	1440.9	1400.5	1350.2	1287.1	1217.7
-52.5°	1255.2	1277.3	1284.7	1280.8	1284.7	1277.3	1255.2	1229.0	1196.6	1152.3	1104.1
-55°	1162.9	1181.0	1188.8	1190.6	1188.8	1181.0	1162.9	1144.2	1124.1	1087.7	1045.3
-57.5°	1140.6	1156.8	1161.9	1162.0	1161.9	1156.8	1140.6	1124.0	1106.8	1069.6	1030.4
-60°	1129.9	1150.1	1154.0	1150.9	1154.0	1150.1	1129.9	1109.1	1087.9	1048.0	1000.4
-62.5°	1060.7	1086.6	1094.7	1093.7	1094.7	1086.6	1060.7	1030.6	996.6	943.4	881.6
-65°	830.2	849.2	858.9	862.7	858.9	849.2	830.2	806.7	778.9	739.0	689.7
-67.5°	590.5	603.6	607.9	607.4	607.9	603.6	590.5	573.5	552.7	524.5	489.3
-70°	385.0	395.1	396.2	393.9	396.2	395.1	385.0	372.5	357.7	340.0	319.1
-72.5°	236.3	243.3	242.6	239.9	242.6	243.3	236.3	228.1	218.7	208.1	196.6
-75°	135.9	139.3	138.4	136.4	138.4	139.3	135.9	131.7	126.7	120.9	113.9
-77.5°	79.3	82.8	83.4	83.6	83.4	82.8	79.3	75.6	71.7	67.5	62.4
-80°	48.9	50.3	50.5	50.6	50.5	50.3	48.9	47.4	45.7	43.9	41.0
-82.5°	33.8	35.1	35.2	35.2	35.2	35.1	33.8	32.6	31.2	29.8	27.8
-85°	25.1	26.3	26.4	26.4	26.4	26.3	25.1	23.9	22.7	21.5	19.7
-87.5°	17.0	17.6	17.6	17.6	17.6	17.6	17.0	16.4	15.9	15.2	13.6
-90°	2.2	2.2	1.1	0.0	1.1	2.2	2.2	2.2	2.2	2.2	2.8



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	8.8	7.7	6.6	6.6	6.6	6.6	6.6	7.2	7.7	8.3	8.8
87.5°	3.3	3.9	4.4	4.4	4.4	4.4	4.4	5.0	5.5	6.1	6.6
85°	4.3	4.3	4.4	4.8	5.2	5.5	5.8	5.9	6.1	6.3	6.6
82.5°	4.4	4.4	4.4	5.0	5.5	6.1	6.6	6.6	6.6	6.6	6.7
80°	4.4	4.4	4.5	5.0	5.6	6.1	6.6	6.7	6.7	6.6	6.7
77.5°	5.2	5.5	5.6	5.7	5.9	6.3	6.7	7.3	7.6	7.8	7.8
75°	5.6	6.2	6.7	6.8	6.8	6.7	6.8	7.4	7.9	8.5	8.8
72.5°	7.7	8.1	8.3	8.4	8.2	8.3	8.6	9.0	9.2	9.1	8.8
70°	10.4	11.3	12.3	13.1	13.3	13.1	12.9	12.6	12.3	12.2	11.4
67.5°	12.6	13.4	15.5	17.7	19.1	19.8	19.5	18.3	17.4	16.8	14.9
65°	14.3	15.2	18.3	21.2	23.7	25.9	28.0	28.0	26.6	23.7	18.9
62.5°	14.2	15.2	17.4	20.1	23.8	29.5	36.2	38.6	38.4	33.4	26.3
60°	12.3	13.6	15.9	18.2	20.6	28.3	39.9	48.1	52.7	44.6	33.8
57.5°	10.6	11.7	13.8	16.2	19.0	27.7	40.0	54.6	63.9	52.3	41.3
55°	10.9	11.5	12.5	13.9	16.2	24.6	35.6	48.9	59.5	56.1	44.0
52.5°	13.0	13.1	13.1	13.0	15.0	20.6	28.6	40.6	47.1	46.2	42.3
50°	15.3	15.6	15.5	15.0	15.9	17.5	22.8	31.7	35.2	37.0	35.6
47.5°	21.4	21.1	19.6	18.8	19.3	19.2	20.8	23.4	28.4	28.9	29.4
45°	32.2	31.3	28.8	27.7	25.9	24.9	23.2	25.7	26.9	27.9	24.5
42.5°	50.4	47.1	43.8	42.1	38.6	35.2	32.4	33.0	32.5	31.2	30.3
40°	79.8	69.6	65.5	62.2	57.8	50.5	48.9	44.8	42.7	39.0	40.2
37.5°	141.0	108.4	101.6	87.8	81.5	77.2	71.9	64.6	56.2	59.7	59.2
35°	269.2	221.6	177.8	143.0	114.8	119.8	105.3	90.8	85.4	90.2	85.9
32.5°	474.7	471.3	345.7	267.4	234.7	200.5	165.1	128.4	141.8	138.6	122.3
30°	994.1	1062.4	816.0	595.6	543.6	386.3	261.3	240.0	229.2	203.1	169.5
27.5°	2621.7	2341.2	1917.6	1506.9	1109.8	797.4	515.7	381.2	342.5	295.5	240.8
25°	5097.9	4554.5	3613.8	2892.6	2249.5	1376.6	882.4	623.6	487.9	409.9	337.5
22.5°	7891.5	6745.0	5477.3	4396.2	3423.1	2269.7	1406.1	903.2	651.7	544.6	451.8
20°	11090.0	9095.1	7443.1	6025.9	4568.0	3106.6	1993.2	1350.5	923.4	695.1	568.5
17.5°	16425.8	12039.1	10049.2	8035.7	6042.6	4171.1	3076.2	2058.6	1217.4	852.0	684.3
15°	23618.6	18063.0	14239.0	10887.7	8252.1	6395.9	4623.8	2960.2	1633.4	1068.1	828.1
12.5°	35789.2	26573.2	19592.4	15048.6	11997.1	9212.5	6643.5	4295.8	2348.3	1350.6	1003.5
10°	47484.7	35582.9	26591.2	20602.5	16244.4	12409.6	8704.6	5490.2	2996.0	1644.1	1171.8
7.5°	58795.3	44087.3	33131.3	25325.7	19536.5	14698.3	10380.4	6590.3	3560.5	1930.9	1332.2
5°	67982.7	50269.9	37058.0	27647.6	21732.7	16695.9	11952.7	7622.1	4035.4	2202.4	1483.4
2.5°	73474.9	54028.2	40033.6	29304.8	23286.4	18075.6	13093.1	8259.5	4257.4	2347.5	1568.0
0°	75379.4	55945.3	40131.3	29367.9	23192.8	18208.3	13597.9	8463.8	4300.1	2436.1	1641.7
-2.5°	74680.1	54605.3	39413.9	28624.3	22591.7	17448.0	12972.0	8500.7	4540.6	2527.7	1697.6
-5°	71350.0	50868.2	36742.8	26904.3	21328.0	16553.1	12309.7	8322.0	4650.0	2570.5	1741.3
-7.5°	66102.2	47083.6	33490.8	24762.4	19759.4	15487.5	11603.8	7956.2	4593.6	2540.6	1748.5
-10°	59269.7	43541.4	31725.6	24127.1	18824.6	14332.2	10796.7	7442.6	4359.8	2454.9	1742.2
-12.5°	54306.2	39995.6	29582.8	23453.5	18583.0	14093.8	10322.8	6841.6	3928.1	2308.7	1722.2
-15°	47654.8	36355.9	28225.9	22552.4	17982.9	13530.9	9713.7	6099.4	3258.6	2081.0	1688.2
-17.5°	40332.8	32213.2	25789.9	20401.1	16112.5	12527.3	8712.4	5243.7	2776.4	1845.3	1599.6
-20°	32498.5	27076.1	22208.6	17576.2	13535.4	10144.9	7063.3	4092.8	2361.0	1724.1	1500.0



REPORT NUMBER: P731607 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	25883.9	21799.2	17631.9	13963.5	10624.0	7686.5	5081.7	2868.5	1844.9	1590.8	1385.4
-25°	19344.3	16409.7	13079.4	10517.3	7780.3	5236.7	3309.6	2195.0	1656.2	1451.6	1257.1
-27.5°	14161.5	11772.5	9640.8	7619.9	5439.2	3544.3	2291.8	1656.2	1485.5	1310.5	1130.2
-30°	10654.3	8948.8	7134.3	5373.8	3742.7	2379.9	1676.9	1476.7	1335.1	1181.5	1021.4
-32.5°	7952.6	6508.3	4986.9	3609.2	2435.3	1763.2	1487.1	1315.4	1201.6	1068.1	945.0
-35°	5491.1	4354.9	3167.0	2344.9	1724.2	1513.1	1358.2	1219.8	1083.5	967.8	877.4
-37.5°	3438.2	2630.6	2110.7	1649.2	1513.0	1380.1	1256.1	1118.3	982.0	896.4	818.3
-40°	2177.7	1740.6	1610.1	1487.8	1379.1	1272.7	1140.2	1008.3	917.2	831.6	763.3
-42.5°	1645.0	1546.7	1449.2	1356.9	1255.8	1135.9	1020.6	934.5	853.5	779.7	721.4
-45°	1477.9	1398.4	1313.9	1214.5	1107.2	1019.4	937.9	864.3	794.3	740.0	684.2
-47.5°	1320.0	1238.5	1151.6	1076.9	1003.2	930.9	864.9	799.7	756.8	706.1	635.0
-50°	1154.3	1100.1	1039.6	975.6	917.5	857.3	811.7	770.0	720.2	656.2	580.9
-52.5°	1053.9	1009.4	958.6	900.9	859.2	824.7	784.8	728.8	670.5	594.4	512.8
-55°	996.0	957.4	921.2	881.4	834.5	784.0	731.9	669.5	594.8	518.4	444.2
-57.5°	991.2	947.6	894.9	838.9	779.4	715.9	648.9	580.5	511.5	442.0	373.8
-60°	949.9	896.9	825.0	752.8	681.1	614.9	550.8	487.5	425.2	362.9	302.2
-62.5°	821.4	763.6	696.3	627.6	563.1	503.7	445.4	387.2	333.0	281.3	232.3
-65°	639.0	587.5	533.7	481.4	428.5	375.4	325.7	284.6	246.5	206.4	165.6
-67.5°	452.4	414.3	372.8	332.3	298.4	265.6	233.5	200.1	172.7	149.3	125.6
-70°	296.8	273.3	248.1	222.2	200.6	181.2	160.5	140.0	120.5	102.7	84.4
-72.5°	184.2	170.9	156.8	142.0	126.8	113.4	99.9	85.8	71.4	56.9	46.0
-75°	105.9	96.7	86.8	77.3	67.1	56.5	50.1	45.7	41.4	37.0	32.5
-77.5°	57.2	52.1	47.5	44.1	40.5	36.5	32.5	29.6	27.8	26.0	24.2
-80°	38.1	35.1	32.2	29.8	27.4	24.9	22.8	21.5	20.4	19.4	18.5
-82.5°	25.8	23.7	21.6	20.2	18.8	17.5	16.2	15.7	15.1	14.6	14.0
-85°	17.9	16.0	14.1	13.5	12.8	12.2	11.6	11.4	11.1	10.9	10.6
-87.5°	11.9	10.2	8.6	8.6	8.5	8.5	8.4	8.5	8.5	8.7	8.8
-90°	3.3	3.9	4.4	4.4	4.4	4.4	4.4	5.0	5.5	6.1	6.6



REPORT NUMBER: P731607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
87.5°	6.6	6.6	6.6	6.6	7.2	7.7	8.3	8.8	8.8	8.8	8.8
85°	6.8	6.9	7.0	6.9	7.3	7.7	8.3	8.8	8.8	8.8	8.8
82.5°	7.2	7.7	8.0	8.2	8.2	8.3	8.5	8.8	8.9	8.8	8.8
80°	7.2	7.8	8.3	8.8	8.8	8.8	8.7	8.9	9.1	9.2	9.1
77.5°	7.8	8.0	8.4	8.8	8.8	8.8	8.8	8.9	9.4	9.6	9.7
75°	8.8	8.7	8.7	8.9	8.9	8.8	8.8	9.0	9.5	10.0	10.2
72.5°	8.8	8.8	8.8	9.1	9.4	9.4	9.2	9.0	9.6	10.1	10.6
70°	10.3	9.2	8.8	9.2	9.7	10.1	10.0	9.7	9.6	10.1	10.7
67.5°	13.2	11.9	10.5	9.5	9.8	10.3	10.8	10.5	10.2	10.2	10.7
65°	16.7	14.7	13.0	11.4	10.4	10.4	10.9	11.0	10.7	10.5	10.8
62.5°	20.9	17.5	15.4	13.1	11.5	10.9	11.0	11.0	11.0	10.8	10.9
60°	25.7	20.6	17.7	15.3	12.9	11.2	11.0	11.0	11.0	11.0	11.0
57.5°	30.8	22.9	19.6	17.2	14.8	12.2	11.0	11.0	11.0	11.0	11.0
55°	34.1	26.0	21.7	18.7	16.5	14.0	11.6	11.0	11.0	11.0	11.0
52.5°	33.7	27.9	23.9	20.1	17.5	15.5	13.0	11.0	11.0	11.0	11.0
50°	30.4	28.7	25.3	21.4	18.3	16.2	14.3	12.0	11.0	11.0	11.0
47.5°	29.2	29.1	26.2	22.3	18.8	16.9	15.1	13.0	11.0	11.0	11.0
45°	28.6	30.0	27.5	23.3	19.5	17.6	15.7	13.8	11.7	11.1	11.0
42.5°	29.2	31.5	29.9	24.5	21.4	18.2	16.3	14.3	12.3	11.2	11.1
40°	37.4	33.9	33.1	30.0	24.1	18.9	16.8	14.8	12.8	11.6	11.3
37.5°	48.2	41.4	36.6	40.1	29.1	21.8	17.3	15.2	13.5	12.2	11.5
35°	71.4	53.3	50.4	53.3	41.5	25.2	17.7	15.6	14.2	12.8	11.7
32.5°	100.5	80.0	76.4	69.3	57.0	29.1	19.9	16.7	14.9	13.4	12.0
30°	143.2	128.9	109.1	88.6	74.8	43.2	23.9	18.1	15.6	14.0	12.4
27.5°	208.0	183.3	149.6	118.4	93.4	60.5	29.2	19.8	16.2	14.5	12.9
25°	282.8	244.7	201.1	154.8	114.1	84.0	34.8	22.0	17.3	15.1	13.3
22.5°	374.1	310.8	256.1	195.0	145.4	110.7	47.4	26.6	18.8	15.6	13.8
20°	469.3	380.0	315.2	239.8	183.1	137.1	67.8	31.2	20.5	16.0	14.2
17.5°	568.4	468.2	386.4	292.8	221.7	165.4	89.7	35.9	22.3	16.5	14.6
15°	701.9	581.0	464.2	348.9	258.5	195.2	112.3	40.6	24.1	16.9	15.0
12.5°	842.8	698.7	546.6	406.9	293.4	225.7	135.3	45.2	26.0	18.1	15.4
10°	982.6	819.0	631.6	465.5	326.4	256.5	157.8	51.6	30.3	20.1	15.9
7.5°	1119.8	939.3	717.2	523.3	361.7	296.6	195.0	62.1	35.0	22.2	16.4
5°	1243.9	1046.5	801.6	593.9	418.0	345.8	234.2	72.6	39.6	24.4	16.8
2.5°	1322.6	1129.9	880.8	661.7	473.0	393.2	271.7	82.8	44.1	26.5	17.2
0°	1393.0	1203.8	952.9	724.0	526.0	437.9	305.9	92.4	48.4	28.6	17.6
-2.5°	1437.7	1247.2	992.3	773.5	580.8	487.0	347.4	119.6	64.1	36.9	21.0
-5°	1475.1	1281.0	1025.4	817.6	633.0	532.5	383.0	145.2	79.1	44.8	24.3
-7.5°	1488.7	1287.8	1042.5	852.5	682.3	574.1	411.8	168.5	92.9	52.0	27.3
-10°	1488.9	1273.5	1036.9	851.9	694.3	591.6	429.2	189.1	105.3	58.4	30.0
-12.5°	1478.3	1249.4	1026.4	845.5	696.5	586.8	416.6	202.6	115.7	63.7	32.3
-15°	1456.3	1215.6	1011.2	833.1	695.0	579.0	401.1	211.4	123.8	68.2	34.0
-17.5°	1411.6	1172.0	992.0	814.8	689.8	568.2	383.2	217.3	129.7	71.9	35.9
-20°	1306.3	1109.3	968.4	790.4	680.4	554.6	363.9	220.1	133.4	74.0	37.7



REPORT NUMBER: P731607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1195.6	1037.0	908.4	774.6	664.9	538.4	343.6	219.6	134.6	74.5	38.9
-25°	1081.9	963.2	843.5	737.9	642.6	508.0	331.8	215.6	133.2	73.2	39.3
-27.5°	990.4	889.5	781.0	701.3	606.1	478.6	325.6	213.4	130.1	70.0	38.9
-30°	908.1	821.1	735.6	663.3	568.9	436.9	315.1	207.8	126.3	68.0	37.8
-32.5°	843.7	757.8	695.5	621.1	523.2	394.5	292.4	198.5	120.0	66.5	36.9
-35°	792.3	714.9	656.0	578.9	473.8	361.2	264.5	185.5	110.9	63.9	35.6
-37.5°	741.7	682.3	610.5	531.7	424.7	324.9	238.6	165.2	99.1	60.2	33.5
-40°	706.1	644.3	569.9	478.6	380.3	285.9	210.7	145.4	91.3	55.2	30.7
-42.5°	668.6	598.5	518.3	426.6	334.8	253.1	181.8	124.5	82.7	50.5	27.0
-45°	617.5	546.1	461.5	375.1	288.2	218.4	157.8	104.3	73.0	45.4	23.9
-47.5°	561.4	484.0	404.7	322.7	248.6	184.3	132.7	92.7	62.7	39.2	22.2
-50°	494.7	422.3	348.1	276.4	208.4	156.0	109.8	80.3	53.9	31.6	20.1
-52.5°	433.5	362.0	295.2	230.8	175.0	126.8	95.2	67.4	44.5	26.9	17.6
-55°	371.4	304.5	244.0	189.3	141.0	107.0	79.8	55.8	34.3	23.2	15.1
-57.5°	309.2	247.9	196.1	148.7	115.1	89.1	64.9	43.4	28.3	19.3	14.7
-60°	245.5	194.7	148.1	119.1	94.5	71.1	50.0	32.6	23.2	15.8	14.3
-62.5°	185.1	144.1	118.7	95.8	73.6	53.0	35.7	26.1	17.7	15.2	13.8
-65°	139.0	114.5	92.4	71.5	52.0	36.7	27.7	19.3	16.0	14.6	13.4
-67.5°	103.5	83.0	64.0	46.1	36.0	27.8	19.5	16.6	15.3	14.0	13.4
-70°	66.5	49.8	40.5	33.5	26.2	19.7	17.3	15.8	14.6	13.8	13.3
-72.5°	40.5	34.9	29.1	23.2	20.4	18.0	16.3	15.0	14.1	13.5	13.2
-75°	27.6	24.7	22.3	20.0	17.9	16.2	15.1	14.2	13.6	13.2	12.7
-77.5°	22.0	20.1	18.2	16.8	15.7	14.7	14.0	13.4	13.0	12.5	12.1
-80°	17.3	16.2	15.3	14.4	13.7	13.2	12.8	12.5	12.2	11.8	11.4
-82.5°	13.3	13.0	12.7	12.6	12.3	12.1	11.8	11.6	11.3	11.1	10.8
-85°	10.7	10.9	11.1	11.3	11.2	11.0	10.8	10.7	10.5	10.3	10.1
-87.5°	9.2	9.5	9.8	10.1	10.0	9.9	9.8	9.7	9.6	9.6	9.5
-90°	6.6	6.6	6.6	6.6	7.2	7.7	8.3	8.8	8.8	8.8	8.8



REPORT NUMBER: P731607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	8.8	8.8	8.8	8.8	8.8	8.8	8.8
87.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8
85°	8.8	8.8	8.8	8.8	8.8	8.8	8.8
82.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8
80°	8.9	8.8	8.8	8.8	8.8	8.8	8.8
77.5°	9.4	9.0	8.8	8.8	8.8	8.8	8.8
75°	10.0	9.4	8.9	8.8	8.8	8.8	8.8
72.5°	10.5	9.9	9.2	8.8	8.8	8.8	8.8
70°	11.0	10.3	9.6	8.9	8.8	8.8	8.8
67.5°	11.0	10.8	10.0	9.1	8.8	8.8	8.8
65°	11.0	11.0	10.3	9.4	8.8	8.8	8.8
62.5°	11.0	11.0	10.6	9.6	8.8	8.8	8.8
60°	11.0	11.0	11.0	9.9	8.8	8.8	8.8
57.5°	11.0	11.0	11.0	10.1	9.0	8.8	8.8
55°	11.0	11.0	11.0	10.4	9.1	8.8	8.8
52.5°	11.0	11.0	11.0	10.6	9.3	8.8	8.8
50°	11.0	11.0	11.0	10.8	9.4	8.8	8.8
47.5°	11.0	11.0	11.0	11.0	9.6	8.8	8.8
45°	11.0	11.0	11.0	11.0	9.7	8.8	8.8
42.5°	11.0	11.0	11.0	11.0	9.8	8.8	8.8
40°	11.0	11.0	11.0	11.0	10.0	8.8	8.8
37.5°	11.0	11.0	11.0	11.0	10.1	8.8	8.8
35°	11.0	11.0	11.0	11.0	10.2	8.8	8.8
32.5°	11.1	11.0	11.0	11.0	10.3	8.8	8.8
30°	11.3	11.0	11.0	11.0	10.4	8.8	8.8
27.5°	11.5	11.0	11.0	11.0	10.5	8.8	8.8
25°	11.8	11.0	11.0	11.0	10.6	8.8	8.8
22.5°	12.1	11.0	11.0	11.0	10.7	8.8	8.8
20°	12.4	11.2	11.0	11.0	10.7	8.8	8.8
17.5°	12.6	11.4	11.0	11.0	10.8	8.8	8.8
15°	12.8	11.6	11.0	11.0	10.8	8.8	8.8
12.5°	13.0	11.9	11.0	11.0	10.9	8.8	8.8
10°	13.1	12.1	11.0	11.0	10.9	8.8	8.8
7.5°	13.2	12.4	11.0	11.0	11.0	8.8	8.8
5°	13.2	12.7	11.0	11.0	11.0	8.8	8.8
2.5°	13.2	12.9	11.0	11.0	11.0	8.8	8.8
0°	13.2	13.2	11.0	11.0	11.0	8.8	8.8
-2.5°	14.4	13.2	11.0	11.0	11.0	8.8	8.8
-5°	15.5	13.2	11.0	11.0	11.0	8.8	8.8
-7.5°	16.5	13.1	11.0	11.0	11.0	8.8	8.8
-10°	17.5	13.0	11.0	11.0	10.9	8.8	8.8
-12.5°	18.2	12.9	11.0	11.0	10.9	8.8	8.8
-15°	18.7	12.8	11.0	11.0	10.8	8.8	8.8
-17.5°	19.0	12.7	11.0	11.0	10.8	8.8	8.8
-20°	19.4	12.5	11.0	11.0	10.7	8.8	8.8



REPORT NUMBER: P731607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	20.2	12.4	11.0	11.0	10.7	8.8	8.8
-25°	20.6	12.5	11.0	11.0	10.6	8.8	8.8
-27.5°	20.5	12.7	11.0	11.0	10.5	8.8	8.8
-30°	19.9	12.8	11.0	11.0	10.4	8.8	8.8
-32.5°	18.8	12.7	11.1	11.0	10.3	8.8	8.8
-35°	18.3	12.4	11.2	11.0	10.2	8.8	8.8
-37.5°	18.0	12.2	11.3	11.0	10.1	8.8	8.8
-40°	17.4	12.2	11.3	11.0	10.0	8.8	8.8
-42.5°	16.5	12.3	11.4	11.0	9.8	8.8	8.8
-45°	15.4	12.3	11.5	11.1	9.7	8.8	8.8
-47.5°	14.0	12.3	11.5	11.1	9.6	8.8	8.8
-50°	13.7	12.2	11.6	11.0	9.4	8.8	8.8
-52.5°	13.5	12.1	11.7	10.8	9.3	8.8	8.8
-55°	13.3	12.2	11.7	10.6	9.1	8.8	8.8
-57.5°	13.0	12.2	11.8	10.4	9.0	8.8	8.8
-60°	12.8	12.3	11.8	10.2	8.8	8.8	8.8
-62.5°	12.8	12.3	11.5	10.0	8.8	8.8	8.8
-65°	12.9	12.4	11.2	9.8	8.8	8.8	8.8
-67.5°	13.0	12.2	10.9	9.5	8.8	8.8	8.8
-70°	13.0	11.8	10.6	9.3	8.8	8.8	8.8
-72.5°	12.6	11.4	10.2	9.2	8.8	8.8	8.8
-75°	12.1	11.0	9.9	9.2	8.8	8.8	8.8
-77.5°	11.6	10.5	9.7	9.1	8.8	8.8	8.8
-80°	11.0	10.2	9.5	9.1	8.8	8.8	8.8
-82.5°	10.5	9.9	9.4	9.0	8.8	8.8	8.8
-85°	9.9	9.5	9.2	8.9	8.8	8.8	8.8
-87.5°	9.4	9.2	9.0	8.9	8.8	8.8	8.8
-90°	8.8	8.8	8.8	8.8	8.8	8.8	8.8

(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

