

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: P731627 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-3S-CV2**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731627 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-18)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-80-3S-CV2
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

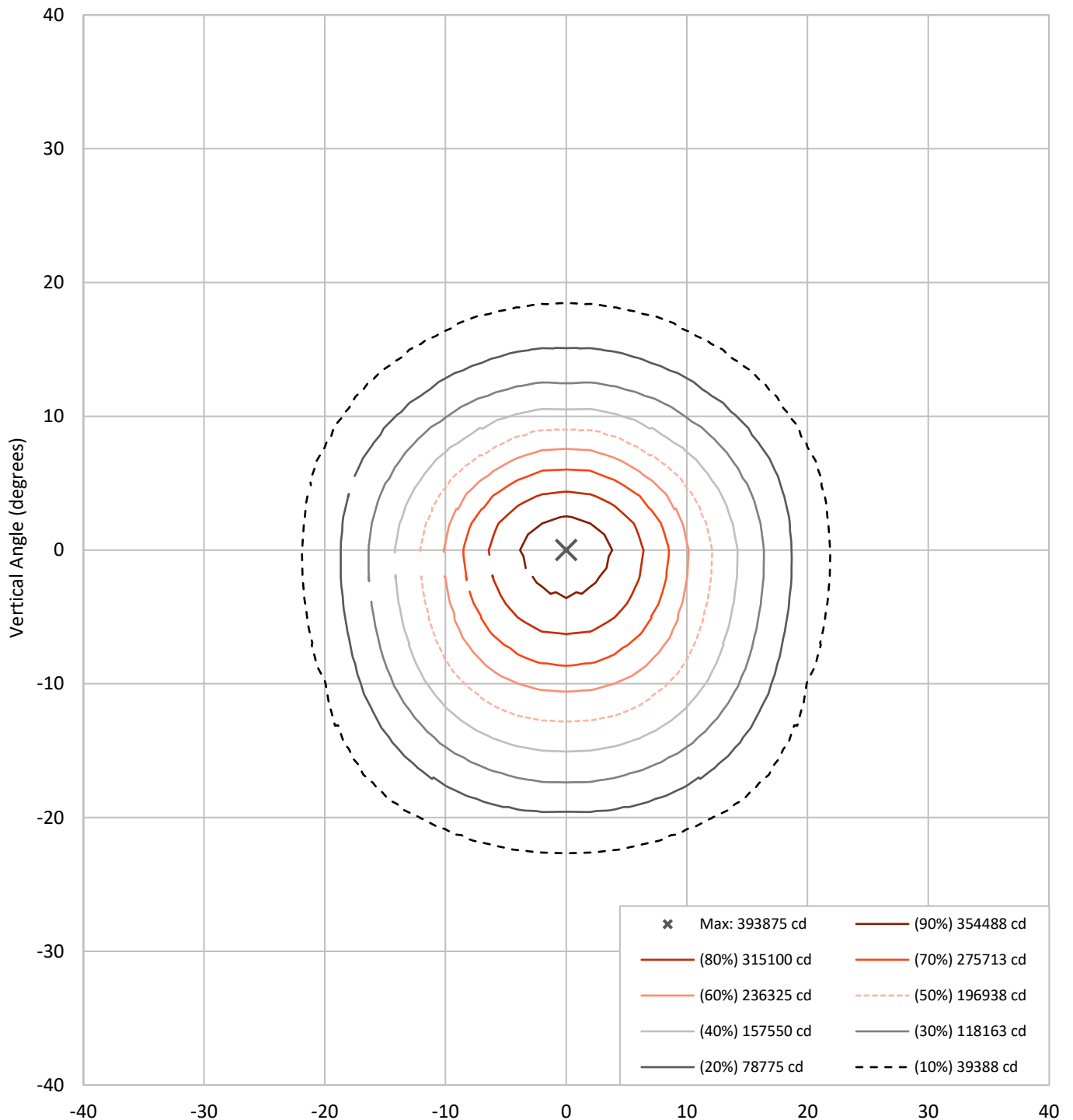
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	77746.2 lumens	Max Intensity:	393875 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	111.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24.2°H x 21.8°V	Field Angle (10%):	43.8°H x 40.9°V
Beam Lumens:	35227.9 lumens	Field Lumens:	66665.9 lumens
Beam Efficiency:	45.3%	Field Efficiency:	85.7%

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





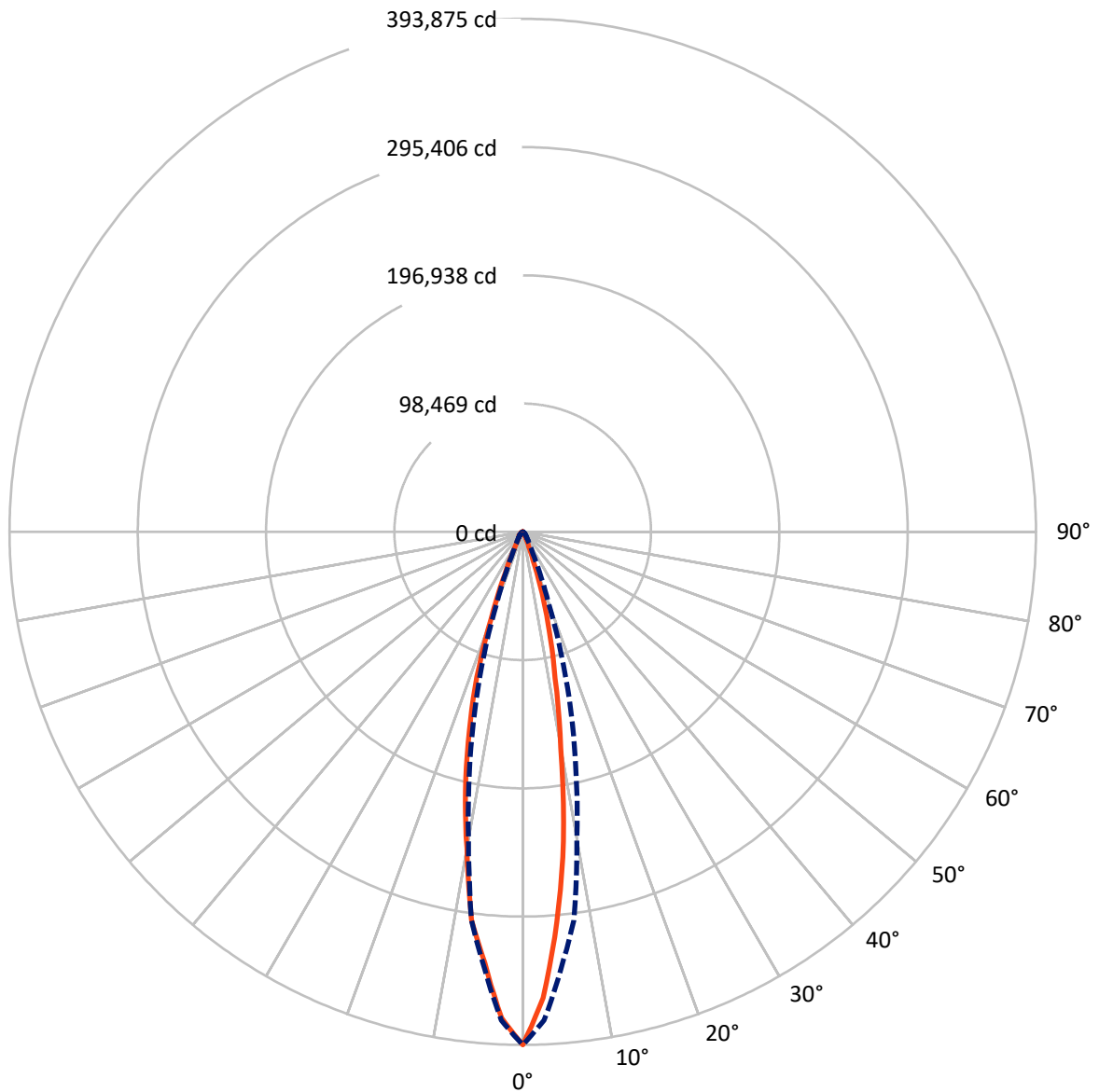
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Lumen Table

90	0.2	0.6	0.8	0.7	0.5	0.7	0.8	0.6	0.2								
80	0.2	0.6	0.8	0.7	0.5	0.7	0.8	0.6	0.2								
70	0.3	0.1	0.2	0.6	0.8	0.5	0.3	0.3	0.3	0.3	0.5	0.8	0.6	0.2	0.1	0.3	
60		0.2	0.4	0.7	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.7	0.4	0.2		
50	0.3	0.2	0.5	0.5	0.7	1.0	1.3	1.4	1.4	1.3	1.0	0.7	0.5	0.5	0.2	0.3	
40		0.3	1.0	2.1	4.2	6.5	8.3	10.1	10.1	8.3	6.5	4.2	2.1	1.0	0.3		
30	0.3	0.5	3.2	10.3	27.1	46.6	106.9	223.3	223.3	106.9	46.6	27.1	10.3	3.2	0.5	0.3	
20		1.0	7.6	27.5	68.1	186.6	981.1	2303.6	2303.6	981.1	186.6	68.1	27.5	7.6	1.0		
10	0.4	2.1	13.5	51.6	124.7	561.9	3386.5	7747.1	7747.1	3386.5	561.9	124.7	51.6	13.5	2.1	0.4	
0		3.4	17.9	62.4	143.0	606.4	3908.1	8806.8	8806.8	3908.1	606.4	143.0	62.4	17.9	3.4		
-10	0.7	4.0	18.2	59.3	131.4	353.5	1998.3	4375.2	4375.2	1998.3	353.5	131.4	59.3	18.2	4.0	0.7	
-20		3.7	15.2	38.8	90.5	159.5	366.4	746.5	746.5	366.4	159.5	90.5	38.8	15.2	3.7		
-30	0.5	3.2	10.9	23.8	52.5	93.8	129.8	157.0	157.0	129.8	93.8	52.5	23.8	10.9	3.2	0.5	
-40		2.2	7.7	16.7	30.2	51.8	84.1	109.4	109.4	84.1	51.8	30.2	16.7	7.7	2.2		
-50	0.3	1.1	4.7	10.9	19.7	29.6	38.5	44.3	44.3	38.5	29.6	19.7	10.9	4.7	1.1	0.3	
-60		0.4	1.8	5.6	11.1	17.7	24.5	28.5	28.5	24.5	17.7	11.1	5.6	1.8	0.4		
-70	0.2	1.1	3.9	10.7	15.4	10.7	3.9	1.1	0.2								
-80		1.1	3.9	10.7	15.4	10.7	3.9	1.1	0.2								
-90	0.2	1.1	3.9	10.7	15.4	10.7	3.9	1.1	0.2								

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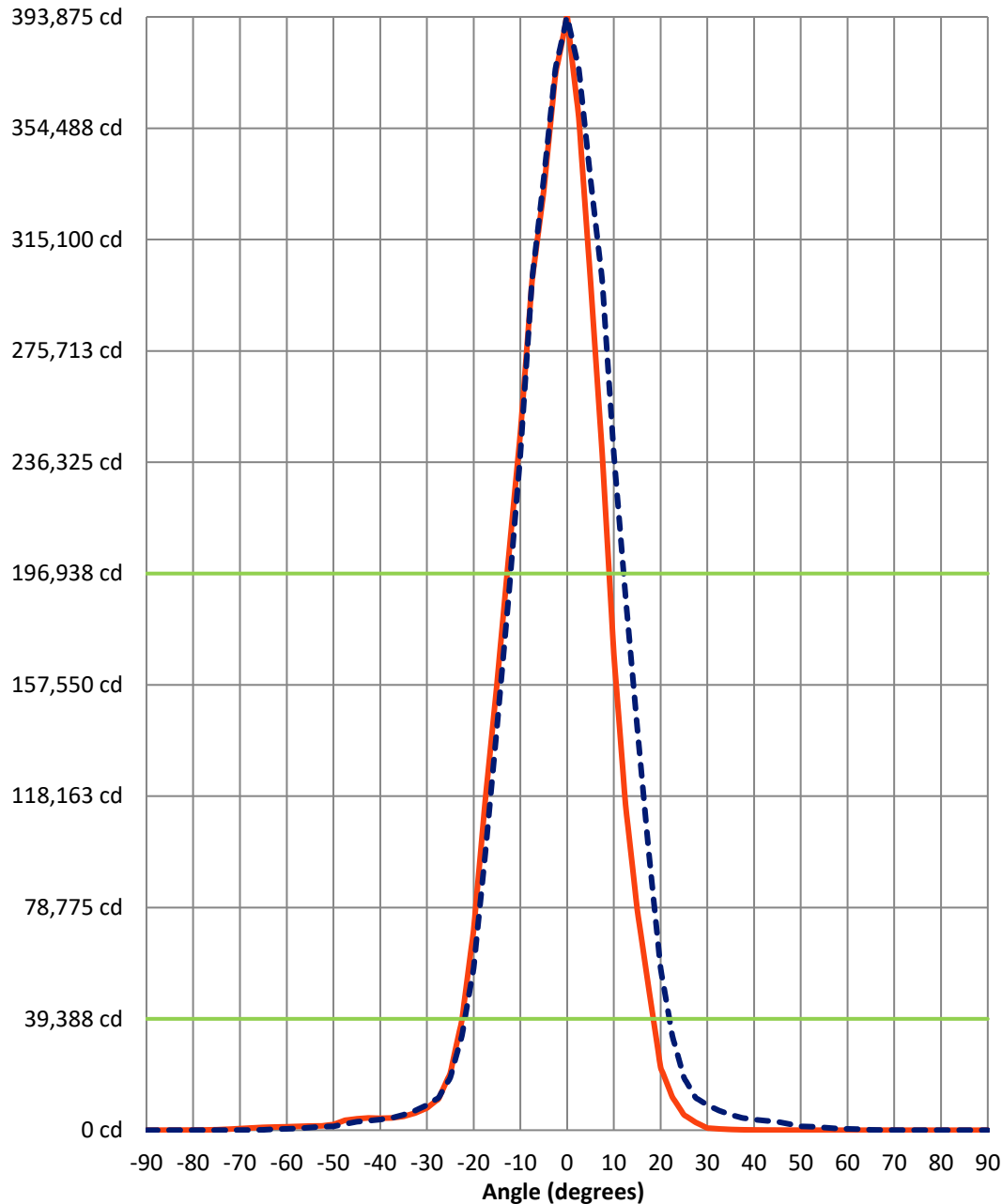
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 24.2°
V Angle: 21.8°
Lumens: 35227.9
Efficiency: 45.3%

Field:
H Angle: 43.8°
V Angle: 40.9°
Lumens: 66665.9
Efficiency: 85.7%

Spill:
Lumens: 11080.3
Efficiency: 14.3%

- 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°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.6	11.2	11.7	12.2
87.5°	10.1	10.1	10.3	10.3	10.3	10.2	10.1	10.1	10.1	10.1	10.1
85°	10.1	10.2	10.5	10.5	10.5	10.3	10.1	10.1	10.1	10.1	10.1
82.5°	10.1	10.2	10.6	10.7	10.7	10.5	10.1	10.1	10.1	10.2	10.1
80°	10.1	10.3	10.8	10.9	10.8	10.6	10.2	10.4	10.5	10.4	10.1
77.5°	10.1	10.3	11.0	11.1	11.0	10.8	10.7	10.9	10.9	10.7	10.2
75°	10.1	10.4	11.1	11.4	11.2	11.1	11.3	11.4	11.3	10.8	10.3
72.5°	10.1	10.4	11.3	11.6	11.4	11.5	11.8	11.8	11.3	10.8	10.3
70°	10.1	10.4	11.4	11.8	11.6	11.8	12.2	11.9	11.4	10.9	10.4
67.5°	10.1	10.5	11.6	11.9	11.8	12.1	12.2	11.9	11.4	11.0	10.5
65°	10.1	10.5	11.7	11.9	11.9	12.2	12.2	12.0	11.5	11.0	10.7
62.5°	10.1	10.5	11.8	12.0	12.1	12.2	12.2	12.1	11.6	11.2	11.4
60°	10.1	10.6	11.9	12.0	12.2	12.2	12.2	12.1	11.7	11.6	12.0
57.5°	10.1	10.6	11.9	12.1	12.2	12.2	12.2	12.2	11.9	12.0	12.2
55°	10.1	10.6	11.9	12.1	12.2	12.2	12.2	12.2	12.0	12.2	12.2
52.5°	10.1	10.6	11.9	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
50°	10.1	10.6	11.8	12.2	12.2	12.2	12.2	12.3	12.2	12.2	13.1
47.5°	10.1	10.6	11.8	12.2	12.2	12.2	12.2	12.5	12.2	12.2	14.0
45°	10.1	10.6	11.8	12.2	12.2	12.2	12.4	12.6	12.3	12.8	14.7
42.5°	10.1	10.6	11.8	12.2	12.2	12.2	12.6	12.8	12.4	13.4	15.5
40°	10.1	10.6	11.8	12.2	12.2	12.2	12.8	12.9	12.7	13.9	16.0
37.5°	10.1	10.6	11.9	12.2	12.2	12.2	13.0	13.0	13.3	14.5	16.3
35°	10.1	10.6	11.9	12.2	12.2	12.3	13.3	13.1	13.9	15.3	16.4
32.5°	10.1	10.6	11.9	12.2	12.2	12.5	13.6	13.3	14.4	16.3	17.8
30°	10.1	10.6	11.9	12.2	12.2	12.8	13.7	13.5	14.9	17.3	19.7
27.5°	10.1	10.5	11.9	12.2	12.2	13.0	13.8	13.9	15.6	18.5	22.0
25°	10.1	10.5	12.0	12.2	12.2	13.2	13.9	14.3	16.5	20.1	24.7
22.5°	10.1	10.5	12.0	12.2	12.2	13.4	14.0	14.7	17.4	22.2	30.1
20°	10.1	10.4	12.0	12.2	12.2	13.6	14.2	15.1	18.4	24.4	35.3
17.5°	10.1	10.4	12.1	12.2	12.2	13.7	14.3	15.4	19.4	26.7	40.4
15°	10.1	10.4	12.1	12.2	12.2	13.9	14.5	15.8	20.4	29.1	45.2
12.5°	10.1	10.3	12.1	12.2	12.2	14.0	14.8	16.3	22.1	31.6	49.7
10°	10.1	10.3	12.1	12.2	12.2	14.0	15.0	16.8	24.5	36.4	57.6
7.5°	10.1	10.2	12.2	12.2	12.2	14.1	15.3	17.2	27.1	41.7	73.8
5°	10.1	10.2	12.2	12.2	12.2	14.2	15.6	17.6	29.7	46.9	90.7
2.5°	10.1	10.1	12.2	12.2	12.2	14.2	15.9	18.0	32.2	52.0	107.5
0°	10.1	10.1	12.2	12.2	12.2	14.2	16.2	18.3	34.5	56.8	123.7
-2.5°	10.1	10.1	12.2	12.2	12.2	14.2	17.8	24.3	45.8	75.4	150.4
-5°	10.1	10.1	12.2	12.2	12.2	14.2	19.3	30.1	56.5	93.3	175.2
-7.5°	10.1	10.1	12.2	12.2	12.2	14.1	20.7	35.6	66.6	110.0	197.8
-10°	10.1	10.1	12.1	12.2	12.2	14.0	21.9	40.4	75.6	125.3	217.8
-12.5°	10.1	10.1	12.1	12.2	12.2	14.0	22.8	44.5	83.6	138.6	231.7
-15°	10.1	10.1	12.1	12.2	12.2	13.9	23.4	47.7	90.7	149.3	241.4
-17.5°	10.1	10.1	12.0	12.2	12.2	13.7	23.7	50.7	97.0	158.3	248.3
-20°	10.1	10.1	11.9	12.2	12.2	13.6	24.0	53.2	101.7	165.5	252.4



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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-CV2

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	10.1	10.1	11.9	12.2	12.2	13.4	24.7	54.6	104.4	170.7	253.3
-25°	10.1	10.1	11.8	12.2	12.2	13.7	24.8	54.6	105.3	173.8	251.1
-27.5°	10.1	10.1	11.7	12.2	12.2	13.9	24.1	53.1	104.0	174.7	253.5
-30°	10.1	10.1	11.6	12.2	12.2	14.1	22.7	50.2	101.8	172.9	253.4
-32.5°	10.1	10.1	11.5	12.2	12.4	14.1	20.5	48.1	98.3	168.2	250.5
-35°	10.1	10.1	11.4	12.2	12.6	13.9	19.7	45.5	92.7	160.5	244.8
-37.5°	10.1	10.1	11.3	12.2	12.7	13.8	19.5	41.6	84.8	149.7	226.6
-40°	10.1	10.1	11.2	12.2	12.8	14.0	19.0	36.6	74.7	138.1	205.8
-42.5°	10.1	10.1	11.1	12.2	12.9	14.1	18.3	30.3	66.1	121.6	183.6
-45°	10.1	10.1	11.0	12.3	13.0	14.2	17.4	25.6	57.4	103.2	160.5
-47.5°	10.1	10.1	10.8	12.3	13.0	14.2	16.2	24.1	47.2	83.6	138.3
-50°	10.1	10.1	10.7	12.2	13.0	14.2	16.0	22.3	35.1	69.7	114.4
-52.5°	10.1	10.1	10.6	12.0	13.0	14.2	15.9	20.2	29.3	54.7	90.0
-55°	10.1	10.1	10.4	11.8	13.0	14.2	15.8	17.9	26.1	38.8	71.7
-57.5°	10.1	10.1	10.3	11.7	13.0	14.1	15.6	17.7	22.7	31.9	52.4
-60°	10.1	10.1	10.1	11.5	12.9	13.9	15.4	17.3	19.6	27.3	37.0
-62.5°	10.1	10.1	10.1	11.2	12.6	13.8	15.1	16.8	18.9	22.5	31.2
-65°	10.1	10.1	10.1	11.0	12.4	13.6	14.8	16.2	18.0	20.5	25.0
-67.5°	10.1	10.1	10.1	10.8	12.1	13.3	14.5	15.7	17.0	19.1	21.8
-70°	10.1	10.1	10.1	10.6	11.8	12.9	14.1	15.0	16.1	17.6	19.8
-72.5°	10.1	10.1	10.1	10.5	11.5	12.6	13.6	14.4	15.2	16.4	17.8
-75°	10.1	10.1	10.1	10.5	11.1	12.2	13.2	13.8	14.3	15.1	16.2
-77.5°	10.1	10.1	10.1	10.4	11.0	11.8	12.7	13.2	13.6	14.0	14.6
-80°	10.1	10.1	10.1	10.4	10.8	11.4	12.2	12.6	12.9	13.2	13.6
-82.5°	10.1	10.1	10.1	10.3	10.6	11.1	11.7	12.0	12.2	12.5	12.7
-85°	10.1	10.1	10.1	10.2	10.5	10.8	11.2	11.6	11.9	12.1	12.2
-87.5°	10.1	10.1	10.1	10.2	10.3	10.4	10.6	11.1	11.5	11.9	12.2
-90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1



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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°	11.7	11.2	10.6	10.1	10.1	10.1	10.1	10.1	9.6	9.1	8.6
87.5°	9.6	9.1	8.6	8.1	8.1	8.1	8.1	8.1	7.6	7.1	6.6
85°	9.6	9.1	8.7	8.4	8.4	8.4	8.3	8.1	7.6	7.1	6.6
82.5°	9.8	9.6	9.5	9.5	9.4	9.1	8.6	8.1	7.6	7.1	6.6
80°	10.0	10.1	10.1	10.1	9.7	9.2	8.7	8.2	7.7	7.2	6.7
77.5°	10.1	10.1	10.1	10.1	9.7	9.2	8.7	8.2	7.7	7.2	6.7
75°	10.1	10.1	10.1	10.1	9.8	9.3	8.8	8.7	8.6	8.4	8.3
72.5°	10.1	10.1	10.1	10.1	9.9	9.7	9.7	9.9	10.3	10.5	10.3
70°	10.1	10.1	10.3	10.3	10.1	10.3	11.2	12.3	13.3	14.3	16.8
67.5°	10.2	10.7	10.8	10.7	10.9	11.9	13.2	18.7	25.3	28.3	29.9
65°	11.1	11.5	11.4	11.6	12.1	16.0	21.9	29.7	38.3	40.3	40.0
62.5°	12.0	11.9	12.0	13.2	16.3	21.7	29.9	38.8	48.4	46.5	40.2
60°	12.2	12.1	13.5	16.6	20.7	28.0	37.3	41.8	44.9	44.7	36.8
57.5°	12.2	13.2	16.0	20.2	26.3	32.4	34.5	37.1	39.3	40.5	31.8
55°	12.7	15.0	18.6	24.3	29.1	28.4	29.4	31.2	32.6	30.8	22.9
52.5°	14.0	16.6	21.5	26.6	27.6	25.5	24.0	25.2	24.1	20.9	17.3
50°	15.2	18.8	23.7	27.0	26.4	22.9	19.8	20.3	19.3	16.9	14.8
47.5°	16.6	20.6	25.5	27.6	24.8	22.5	19.8	19.1	18.1	18.8	17.7
45°	17.8	22.0	27.2	26.7	24.9	24.1	22.9	20.1	23.2	24.3	24.0
42.5°	18.7	23.1	27.2	26.2	27.7	28.4	27.9	29.0	30.9	33.7	34.9
40°	19.3	23.8	28.2	31.1	31.9	34.7	38.5	41.5	42.5	46.6	49.4
37.5°	19.6	26.0	32.3	40.1	39.1	44.8	51.1	62.1	65.4	61.5	69.1
35°	19.6	29.4	43.4	54.1	55.6	58.1	74.5	91.1	101.3	91.3	100.7
32.5°	21.8	33.9	57.5	72.7	83.5	86.2	102.5	136.7	154.2	156.8	157.7
30°	26.8	47.0	75.0	94.8	119.5	139.4	155.1	194.3	222.5	292.2	348.4
27.5°	33.3	62.8	96.0	127.9	164.9	201.8	239.0	270.0	361.0	492.0	637.9
25°	39.8	85.8	119.2	168.7	225.0	278.9	328.9	371.2	548.7	817.0	996.6
22.5°	52.3	112.8	152.8	214.1	291.2	362.0	423.8	535.7	783.9	1181.2	1374.3
20°	72.6	141.5	194.1	268.7	365.3	447.9	520.3	707.5	1069.7	1442.3	1681.9
17.5°	94.8	171.4	239.0	337.5	461.0	552.4	626.6	874.7	1346.8	1702.8	1946.9
15°	118.4	202.3	283.4	412.4	565.8	679.3	829.7	1134.6	1591.5	1958.5	2258.0
12.5°	142.5	233.5	326.8	491.3	677.2	807.3	1077.4	1519.6	1927.4	2247.3	2695.4
10°	166.5	264.6	368.8	572.1	792.5	935.5	1349.8	1900.1	2294.2	2623.3	3138.6
7.5°	213.5	308.4	413.9	652.5	908.7	1062.4	1635.4	2270.4	2637.6	2972.6	3515.6
5°	264.2	364.6	484.2	752.6	1023.9	1176.8	1900.9	2623.3	2959.7	3297.1	3835.5
2.5°	313.3	418.8	552.0	849.8	1132.0	1269.9	2059.6	2819.4	3168.7	3549.0	4107.5
0°	358.9	470.5	616.5	938.9	1230.9	1356.7	2188.1	2985.1	3344.0	3759.7	4345.8
-2.5°	395.7	521.1	677.0	989.5	1265.3	1406.1	2214.5	3046.0	3434.6	3879.8	4460.1
-5°	426.4	568.1	732.8	1031.4	1291.9	1449.6	2209.2	3067.6	3510.6	3970.9	4564.3
-7.5°	450.4	610.7	783.4	1061.6	1305.7	1470.3	2202.6	3096.5	3593.9	4033.1	4648.7
-10°	463.7	628.2	794.2	1057.4	1302.3	1474.9	2154.5	3079.2	3662.0	4078.1	4675.2
-12.5°	449.8	622.6	791.4	1044.1	1293.2	1474.0	2049.8	3012.3	3716.2	4108.9	4625.2
-15°	433.6	613.5	780.6	1021.5	1279.0	1467.8	1883.0	2893.9	3689.0	3996.5	4478.7
-17.5°	415.8	600.7	761.0	989.6	1260.5	1456.3	1638.5	2593.4	3410.3	3804.4	4320.0
-20°	397.4	584.4	732.0	948.5	1234.1	1400.3	1523.5	2213.6	3011.8	3567.4	4042.7



REPORT NUMBER: P731627 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-CV2

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	379.2	564.7	701.0	910.5	1138.8	1307.8	1438.5	1826.0	2599.2	3274.1	3628.6
-25°	369.5	535.8	675.2	840.6	1037.3	1212.7	1340.0	1477.8	2168.0	2816.4	3262.7
-27.5°	365.0	509.8	636.8	770.9	941.0	1112.2	1233.6	1363.5	1742.8	2355.6	2890.6
-30°	356.6	474.2	596.8	708.0	859.1	1007.3	1126.5	1260.6	1413.1	1908.0	2402.3
-32.5°	336.6	438.1	555.0	661.9	782.5	912.1	1044.2	1175.4	1306.0	1486.0	1939.0
-35°	313.3	407.9	513.1	614.7	710.6	835.0	966.9	1096.1	1206.9	1322.0	1572.6
-37.5°	294.4	375.2	471.8	567.9	658.5	764.9	886.4	1011.8	1125.0	1229.0	1371.8
-40°	273.6	340.3	432.8	523.7	608.9	700.4	808.7	921.8	1038.7	1160.2	1271.9
-42.5°	250.8	315.2	392.3	480.1	560.0	644.2	730.8	835.5	950.4	1078.6	1194.5
-45°	224.8	288.4	351.7	432.4	509.2	586.7	667.8	750.7	863.5	978.6	1099.9
-47.5°	197.4	259.4	320.2	384.7	457.9	528.6	602.9	687.5	776.1	881.3	988.5
-50°	169.1	227.8	286.9	345.4	407.9	471.9	537.5	623.1	707.3	789.6	881.6
-52.5°	140.7	194.9	251.2	307.4	363.0	420.7	483.3	558.7	638.2	715.4	791.7
-55°	110.6	161.1	213.8	267.2	320.2	372.6	433.4	500.3	569.2	642.8	713.7
-57.5°	85.2	125.5	174.2	225.0	275.1	326.3	386.0	443.5	506.1	571.1	634.8
-60°	62.0	93.1	132.1	179.1	228.0	278.2	337.2	394.3	447.7	499.7	559.5
-62.5°	41.0	65.1	94.5	129.9	174.4	224.7	277.6	333.9	394.4	441.9	488.6
-65°	33.6	41.5	61.6	89.2	118.6	161.4	209.6	261.7	314.2	361.4	411.3
-67.5°	26.0	33.5	40.4	50.9	76.3	104.7	134.9	178.0	223.7	263.4	303.6
-70°	22.7	26.0	31.9	38.1	44.1	55.7	80.7	107.2	133.3	158.7	191.6
-72.5°	20.1	23.0	26.1	29.4	34.5	40.0	45.8	51.9	66.7	86.3	104.5
-75°	17.8	19.8	22.4	25.2	27.9	30.5	33.6	38.4	43.2	47.8	52.1
-77.5°	15.9	17.5	19.3	21.2	22.9	25.0	27.1	29.4	31.7	34.1	36.7
-80°	14.2	15.1	16.4	17.8	18.7	19.8	21.0	22.4	23.7	25.0	26.5
-82.5°	13.1	13.7	14.3	15.0	15.1	15.0	15.0	15.4	16.3	17.2	18.0
-85°	12.2	12.2	12.5	12.8	13.0	13.1	13.1	13.0	12.9	12.8	12.7
-87.5°	11.9	11.7	11.5	11.3	11.4	11.4	11.5	11.6	11.1	10.7	10.2
-90°	9.6	9.1	8.6	8.1	8.1	8.1	8.1	8.1	7.6	7.1	6.6



REPORT NUMBER: P731627 (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°	8.1	8.1	8.1	8.1	8.1	8.6	9.1	9.6	10.1	11.6	13.2
87.5°	6.1	5.6	5.1	4.6	4.1	3.6	3.1	2.5	2.0	2.0	2.0
85°	6.1	5.6	5.1	4.6	4.1	3.6	3.1	2.5	2.0	2.0	2.0
82.5°	6.1	5.9	5.7	5.6	5.5	5.2	4.8	4.3	3.9	3.5	3.0
80°	6.2	6.1	6.1	6.1	6.1	5.7	5.2	4.7	4.1	3.6	3.1
77.5°	6.4	6.4	6.5	6.4	6.2	5.7	5.2	4.7	4.2	3.6	3.1
75°	8.1	7.9	7.5	7.0	6.3	5.7	5.2	4.7	4.2	4.0	4.0
72.5°	10.0	9.4	9.0	9.5	9.4	9.2	8.9	8.3	7.5	7.4	7.7
70°	18.5	19.4	19.5	18.6	16.6	14.9	13.5	12.0	10.2	9.7	9.8
67.5°	29.5	28.1	26.4	24.1	20.7	17.7	15.7	14.0	12.3	11.7	11.9
65°	36.8	30.5	26.2	22.8	20.1	17.6	15.6	13.7	11.8	10.6	10.4
62.5°	33.6	26.4	21.9	19.1	17.2	15.6	13.1	11.1	9.6	8.8	9.1
60°	29.0	21.2	16.4	14.2	12.1	10.2	9.3	8.7	8.3	8.1	8.2
57.5°	23.0	16.1	12.1	11.2	10.1	8.7	8.3	8.5	8.4	8.1	8.1
55°	16.8	13.8	12.2	11.6	11.1	10.4	10.0	9.9	9.7	9.4	9.6
52.5°	13.7	13.7	13.9	13.6	13.1	12.6	12.0	12.0	12.2	12.6	13.1
50°	15.1	15.5	15.9	15.7	15.3	14.7	14.1	14.7	15.6	16.4	17.1
47.5°	17.6	18.2	19.3	18.0	18.2	19.4	18.6	18.9	21.9	23.8	25.0
45°	22.4	25.9	26.8	27.6	27.8	30.0	30.9	31.5	37.4	39.8	40.0
42.5°	35.6	39.0	41.7	44.4	43.9	50.5	59.4	64.3	64.1	63.1	64.1
40°	53.9	57.5	65.7	72.0	81.6	90.2	90.8	82.4	83.4	93.0	93.8
37.5°	80.9	92.1	108.5	126.6	131.5	126.0	129.3	135.3	141.7	150.6	161.0
35°	128.8	166.5	174.1	188.0	197.2	188.1	191.7	207.8	207.9	236.6	252.4
32.5°	228.4	286.4	304.2	291.6	316.0	330.7	285.6	342.3	353.2	382.6	418.8
30°	372.6	493.2	530.5	513.1	578.9	599.7	559.8	674.2	741.4	740.0	909.6
27.5°	708.0	768.2	838.2	945.1	958.9	994.6	1220.0	1394.4	1615.8	1825.1	2096.8
25°	1083.2	1117.4	1318.0	1450.1	1515.3	1753.7	2087.8	2360.3	2830.1	3268.5	4181.2
22.5°	1428.8	1556.5	1801.2	2012.7	2250.4	2634.1	3095.0	3600.7	4848.9	6384.7	8311.6
20°	1767.9	1936.0	2228.3	2608.7	2988.1	3510.1	4122.7	5725.0	8179.5	11899.5	15919.8
17.5°	2150.7	2312.4	2710.8	3248.1	3825.3	4607.6	6486.9	9548.4	14760.7	22038.0	29058.6
15°	2647.7	2925.8	3366.7	4160.5	5265.3	7109.2	10172.7	17724.0	28130.2	39447.3	51580.4
12.5°	3229.1	3687.6	4405.4	5431.1	7021.9	11378.1	19077.0	31202.6	46753.4	62647.9	82589.3
10°	3792.0	4558.8	5657.2	7273.5	10438.3	17303.9	28773.9	46274.0	70100.8	94676.1	116699.3
7.5°	4286.3	5301.1	6779.0	9044.3	14068.5	23991.1	40491.7	64877.4	94576.0	124944.6	154559.1
5°	4791.2	5997.8	7720.2	10370.5	16282.3	28831.7	50011.4	81908.4	117790.1	154572.0	193224.4
2.5°	5205.6	6582.7	8505.8	11469.9	17590.6	31433.1	55914.8	93770.4	135228.6	177338.6	225434.8
0°	5455.0	6945.5	8894.3	11504.2	18618.1	33482.5	57373.0	97969.4	142591.1	188889.7	239228.1
-2.5°	5462.8	6869.9	8705.0	11395.1	18398.1	32922.2	57474.8	97864.7	142195.1	186785.1	236460.9
-5°	5445.8	6697.7	8421.1	11003.7	17082.0	29999.5	53065.5	91524.1	135187.8	177386.5	222632.6
-7.5°	5419.7	6470.1	8017.8	10377.8	15397.6	26471.9	47987.0	83192.8	124389.4	163695.5	204198.4
-10°	5389.6	6234.4	7646.6	9840.8	13871.8	22275.9	38602.3	70664.3	108455.9	144726.8	177940.3
-12.5°	5363.8	6137.6	7347.6	9101.1	12016.9	18666.5	32590.3	57748.5	88352.3	118979.0	148401.0
-15°	5264.8	6009.5	7103.7	8551.7	10915.6	15566.1	24329.0	41719.0	66848.9	91042.4	114398.0
-17.5°	5062.1	5827.1	6515.5	7642.7	9347.9	12380.5	18121.8	28600.6	44735.9	63647.8	80124.8
-20°	4664.9	5189.3	5760.4	6717.8	8030.1	9626.6	12245.0	18215.8	25887.8	38223.7	46862.9



REPORT NUMBER: P731627 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-CV2

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4075.2	4516.3	4996.8	5634.7	6557.5	7684.2	9081.4	11288.7	15292.1	20046.7	25301.6
-25°	3537.4	3854.3	4299.6	4847.6	5341.5	6076.6	7055.7	7912.0	9641.2	11040.0	13930.2
-27.5°	3129.7	3393.2	3796.4	4221.5	4586.0	4979.9	5661.2	6266.6	7107.9	7842.3	9017.3
-30°	2834.9	3104.8	3429.0	3751.1	4097.4	4431.3	4736.3	5195.2	5699.9	6179.0	6800.5
-32.5°	2470.9	2896.9	3131.6	3404.0	3712.0	4004.1	4236.6	4526.9	4804.6	5122.0	5462.9
-35°	2090.8	2556.1	2916.4	3125.7	3354.5	3633.4	3871.7	4070.2	4254.3	4451.4	4631.4
-37.5°	1643.0	2157.3	2567.6	2877.4	3086.3	3281.1	3536.6	3727.5	3849.2	4012.6	4135.7
-40°	1412.1	1618.0	2084.5	2505.5	2774.7	3081.4	3319.2	3521.4	3744.2	3918.1	4018.4
-42.5°	1299.6	1419.0	1543.1	1887.0	2308.4	2676.6	2983.2	3315.5	3613.7	3850.8	4071.4
-45°	1212.5	1297.3	1385.8	1499.9	1617.9	1962.5	2340.5	2729.1	3077.1	3402.3	3681.3
-47.5°	1096.5	1195.8	1276.5	1348.6	1421.1	1526.9	1640.1	1797.7	2132.2	2471.3	2794.7
-50°	977.0	1068.4	1157.5	1241.2	1309.1	1362.4	1405.2	1474.7	1575.5	1675.8	1774.4
-52.5°	864.5	949.2	1030.0	1111.1	1190.6	1261.1	1323.5	1372.7	1413.1	1447.6	1471.0
-55°	784.0	850.7	913.5	990.9	1067.2	1138.2	1203.9	1264.2	1319.3	1369.3	1403.8
-57.5°	700.3	765.7	830.7	895.8	958.9	1019.9	1081.2	1140.9	1196.9	1247.9	1282.1
-60°	617.4	673.3	737.9	805.0	867.9	926.6	983.6	1037.2	1087.1	1130.0	1157.6
-62.5°	539.1	591.9	647.7	708.1	771.8	833.9	891.0	945.1	996.5	1038.1	1064.9
-65°	460.0	504.4	552.1	602.0	653.7	706.6	760.9	816.3	872.0	916.8	946.2
-67.5°	345.6	390.1	436.9	485.6	529.6	570.1	609.2	649.6	690.4	724.3	751.0
-70°	224.8	258.0	290.6	324.0	360.5	397.5	433.0	466.2	497.0	521.6	541.6
-72.5°	121.4	137.5	155.6	181.0	205.5	230.1	254.4	277.4	298.8	314.9	327.5
-75°	56.3	63.6	77.3	90.0	101.7	113.6	125.2	135.8	145.5	152.3	157.5
-77.5°	40.0	43.3	46.5	49.8	53.1	57.7	62.4	67.2	71.8	76.2	80.5
-80°	28.1	30.0	31.8	33.5	35.2	37.7	40.5	43.3	46.0	48.8	51.5
-82.5°	18.8	20.0	21.2	22.4	23.5	25.0	26.5	27.9	29.3	31.6	33.9
-85°	12.7	13.2	13.8	14.4	15.0	16.3	17.5	18.7	19.9	21.5	23.1
-87.5°	9.7	9.8	9.8	9.9	9.9	10.9	12.0	13.0	14.1	15.6	17.2
-90°	6.1	5.6	5.1	4.6	4.1	3.6	3.1	2.5	2.0	1.5	1.0



REPORT NUMBER: P731627 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	14.7	16.2	17.3	18.3	17.3	16.2	14.7	13.2	11.6	10.1	9.6
87.5°	2.0	2.0	1.0	0.0	1.0	2.0	2.0	2.0	2.0	2.0	2.5
85°	2.0	2.0	1.0	0.0	1.0	2.0	2.0	2.0	2.0	2.0	2.5
82.5°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.0	3.5	3.9	4.3
80°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	3.1	3.6	4.1	4.7
77.5°	2.6	2.0	2.0	2.0	2.0	2.0	2.6	3.1	3.6	4.2	4.7
75°	4.0	4.1	4.1	4.1	4.1	4.1	4.0	4.0	4.0	4.2	4.7
72.5°	7.9	8.0	8.1	8.1	8.1	8.0	7.9	7.7	7.4	7.5	8.3
70°	10.0	10.0	10.1	10.1	10.1	10.0	10.0	9.8	9.7	10.2	12.0
67.5°	12.0	12.1	12.2	12.2	12.2	12.1	12.0	11.9	11.7	12.3	14.0
65°	10.3	10.2	10.1	10.1	10.1	10.2	10.3	10.4	10.6	11.8	13.7
62.5°	9.5	10.0	10.1	10.1	10.1	10.0	9.5	9.1	8.8	9.6	11.1
60°	8.2	8.2	8.1	8.1	8.1	8.2	8.2	8.2	8.1	8.3	8.7
57.5°	8.1	8.1	8.9	10.1	8.9	8.1	8.1	8.1	8.1	8.4	8.5
55°	9.8	10.0	10.9	12.2	10.9	10.0	9.8	9.6	9.4	9.7	9.9
52.5°	13.6	13.9	14.1	14.2	14.1	13.9	13.6	13.1	12.6	12.2	12.0
50°	17.6	18.0	18.2	18.3	18.2	18.0	17.6	17.1	16.4	15.6	14.7
47.5°	25.8	26.1	26.2	26.4	26.2	26.1	25.8	25.0	23.8	21.9	18.9
45°	41.4	42.0	42.2	42.6	42.2	42.0	41.4	40.0	39.8	37.4	31.5
42.5°	66.7	67.8	67.8	66.9	67.8	67.8	66.7	64.1	63.1	64.1	64.3
40°	95.2	95.3	94.2	93.3	94.2	95.3	95.2	93.8	93.0	83.4	82.4
37.5°	165.7	159.8	149.1	144.0	149.1	159.8	165.7	161.0	150.6	141.7	135.3
35°	256.4	260.3	261.4	259.6	261.4	260.3	256.4	252.4	236.6	207.9	207.8
32.5°	428.9	449.4	456.1	468.4	456.1	449.4	428.9	418.8	382.6	353.2	342.3
30°	882.9	876.8	799.9	766.5	799.9	876.8	882.9	909.6	740.0	741.4	674.2
27.5°	2378.5	2652.3	2782.8	2772.1	2782.8	2652.3	2378.5	2096.8	1825.1	1615.8	1394.4
25°	4898.4	5338.5	5630.4	5438.8	5630.4	5338.5	4898.4	4181.2	3268.5	2830.1	2360.3
22.5°	10106.2	11065.6	11588.3	11776.0	11588.3	11065.6	10106.2	8311.6	6384.7	4848.9	3600.7
20°	20252.7	22064.1	23387.0	22282.4	23387.0	22064.1	20252.7	15919.8	11899.5	8179.5	5725.0
17.5°	37599.1	43234.0	48218.7	49776.6	48218.7	43234.0	37599.1	29058.6	22038.0	14760.7	9548.4
15°	63277.6	72793.7	78450.0	78120.4	78450.0	72793.7	63277.6	51580.4	39447.3	28130.2	17724.0
12.5°	97359.8	109103.2	116938.8	115196.3	116938.8	109103.2	97359.8	82589.3	62647.9	46753.4	31202.6
10°	138312.2	156099.6	169023.6	168428.4	169023.6	156099.6	138312.2	116699.3	94676.1	70100.8	46274.0
7.5°	180770.6	209971.3	235316.1	239581.0	235316.1	209971.3	180770.6	154559.1	124944.6	94576.0	64877.4
5°	235524.5	274012.0	299181.7	300620.4	299181.7	274012.0	235524.5	193224.4	154572.0	117790.1	81908.4
2.5°	279938.9	324090.4	345331.7	358201.3	345331.7	324090.4	279938.9	225434.8	177338.6	135228.6	93770.4
0°	300747.1	336639.8	375474.9	393875.0	375474.9	336639.8	300747.1	239228.1	188889.7	142591.1	97969.4
-2.5°	292210.4	330672.0	353973.4	373474.4	353973.4	330672.0	292210.4	236460.9	186785.1	142195.1	97864.7
-5°	272849.7	310958.8	330506.8	332330.5	330506.8	310958.8	272849.7	222632.6	177386.5	135187.8	91524.1
-7.5°	241242.7	273557.2	294080.7	300466.3	294080.7	273557.2	241242.7	204198.4	163695.5	124389.4	83192.8
-10°	207652.8	230892.1	244155.9	246698.8	244155.9	230892.1	207652.8	177940.3	144726.8	108455.9	70664.3
-12.5°	172730.9	191756.9	200909.1	202908.6	200909.1	191756.9	172730.9	148401.0	118979.0	88352.3	57748.5
-15°	134046.3	148362.9	156603.5	158037.5	156603.5	148362.9	134046.3	114398.0	91042.4	66848.9	41719.0
-17.5°	95679.7	107313.1	115660.8	116769.9	115660.8	107313.1	95679.7	80124.8	63647.8	44735.9	28600.6
-20°	58775.7	66691.2	71574.7	70858.5	71574.7	66691.2	58775.7	46862.9	38223.7	25887.8	18215.8



REPORT NUMBER: P731627 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	31644.1	35910.8	37974.5	39040.9	37974.5	35910.8	31644.1	25301.6	20046.7	15292.1	11288.7
-25°	16727.0	18534.0	19461.2	20187.6	19461.2	18534.0	16727.0	13930.2	11040.0	9641.2	7912.0
-27.5°	9952.7	10574.2	10919.2	11108.8	10919.2	10574.2	9952.7	9017.3	7842.3	7107.9	6266.6
-30°	7296.4	7594.0	7751.3	7829.7	7751.3	7594.0	7296.4	6800.5	6179.0	5699.9	5195.2
-32.5°	5736.5	5913.2	6021.9	6061.4	6021.9	5913.2	5736.5	5462.9	5122.0	4804.6	4526.9
-35°	4758.7	4817.8	4839.0	4877.1	4839.0	4817.8	4758.7	4631.4	4451.4	4254.3	4070.2
-37.5°	4229.5	4284.5	4311.4	4333.6	4311.4	4284.5	4229.5	4135.7	4012.6	3849.2	3727.5
-40°	4064.8	4123.1	4182.9	4226.1	4182.9	4123.1	4064.8	4018.4	3918.1	3744.2	3521.4
-42.5°	4167.7	4263.1	4328.6	4337.7	4328.6	4263.1	4167.7	4071.4	3850.8	3613.7	3315.5
-45°	3839.8	3948.4	4007.6	4027.4	4007.6	3948.4	3839.8	3681.3	3402.3	3077.1	2729.1
-47.5°	3081.2	3329.5	3477.7	3510.3	3477.7	3329.5	3081.2	2794.7	2471.3	2132.2	1797.7
-50°	1870.1	1958.5	2007.2	2013.7	2007.2	1958.5	1870.1	1774.4	1675.8	1575.5	1474.7
-52.5°	1489.5	1505.3	1515.2	1520.9	1515.2	1505.3	1489.5	1471.0	1447.6	1413.1	1372.7
-55°	1434.1	1460.6	1475.6	1482.4	1475.6	1460.6	1434.1	1403.8	1369.3	1319.3	1264.2
-57.5°	1312.6	1339.5	1351.5	1354.6	1351.5	1339.5	1312.6	1282.1	1247.9	1196.9	1140.9
-60°	1182.8	1205.6	1212.8	1212.7	1212.8	1205.6	1182.8	1157.6	1130.0	1087.1	1037.2
-62.5°	1090.4	1114.1	1125.6	1131.6	1125.6	1114.1	1090.4	1064.9	1038.1	996.5	945.1
-65°	971.8	993.5	1002.6	1005.8	1002.6	993.5	971.8	946.2	916.8	872.0	816.3
-67.5°	774.8	795.3	801.2	801.0	801.2	795.3	774.8	751.0	724.3	690.4	649.6
-70°	558.5	572.2	574.4	571.9	574.4	572.2	558.5	541.6	521.6	497.0	466.2
-72.5°	337.7	345.6	348.6	348.8	348.6	345.6	337.7	327.5	314.9	298.8	277.4
-75°	161.6	164.5	166.8	168.3	166.8	164.5	161.6	157.5	152.3	145.5	135.8
-77.5°	84.6	88.4	90.1	91.3	90.1	88.4	84.6	80.5	76.2	71.8	67.2
-80°	54.0	56.5	56.7	56.8	56.7	56.5	54.0	51.5	48.8	46.0	43.3
-82.5°	36.1	38.3	38.5	38.5	38.5	38.3	36.1	33.9	31.6	29.3	27.9
-85°	24.8	26.3	27.4	28.4	27.4	26.3	24.8	23.1	21.5	19.9	18.7
-87.5°	18.7	20.3	20.3	20.3	20.3	20.3	18.7	17.2	15.6	14.1	13.0
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.0	2.5



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	9.1	8.6	8.1	8.1	8.1	8.1	8.1	8.6	9.1	9.6	10.1
87.5°	3.1	3.6	4.1	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1
85°	3.1	3.6	4.1	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1
82.5°	4.8	5.2	5.5	5.6	5.7	5.9	6.1	6.6	7.1	7.6	8.1
80°	5.2	5.7	6.1	6.1	6.1	6.1	6.2	6.7	7.2	7.7	8.2
77.5°	5.2	5.7	6.2	6.4	6.5	6.4	6.4	6.7	7.2	7.7	8.2
75°	5.2	5.7	6.3	7.0	7.5	7.9	8.1	8.3	8.4	8.6	8.7
72.5°	8.9	9.2	9.4	9.5	9.0	9.4	10.0	10.3	10.5	10.3	9.9
70°	13.5	14.9	16.6	18.6	19.5	19.4	18.5	16.8	14.3	13.3	12.3
67.5°	15.7	17.7	20.7	24.1	26.4	28.1	29.5	29.9	28.3	25.3	18.7
65°	15.6	17.6	20.1	22.8	26.2	30.5	36.8	40.0	40.3	38.3	29.7
62.5°	13.1	15.6	17.2	19.1	21.9	26.4	33.6	40.2	46.5	48.4	38.8
60°	9.3	10.2	12.1	14.2	16.4	21.2	29.0	36.8	44.7	44.9	41.8
57.5°	8.3	8.7	10.1	11.2	12.1	16.1	23.0	31.8	40.5	39.3	37.1
55°	10.0	10.4	11.1	11.6	12.2	13.8	16.8	22.9	30.8	32.6	31.2
52.5°	12.0	12.6	13.1	13.6	13.9	13.7	13.7	17.3	20.9	24.1	25.2
50°	14.1	14.7	15.3	15.7	15.9	15.5	15.1	14.8	16.9	19.3	20.3
47.5°	18.6	19.4	18.2	18.0	19.3	18.2	17.6	17.7	18.8	18.1	19.1
45°	30.9	30.0	27.8	27.6	26.8	25.9	22.4	24.0	24.3	23.2	20.1
42.5°	59.4	50.5	43.9	44.4	41.7	39.0	35.6	34.9	33.7	30.9	29.0
40°	90.8	90.2	81.6	72.0	65.7	57.5	53.9	49.4	46.6	42.5	41.5
37.5°	129.3	126.0	131.5	126.6	108.5	92.1	80.9	69.1	61.5	65.4	62.1
35°	191.7	188.1	197.2	188.0	174.1	166.5	128.8	100.7	91.3	101.3	91.1
32.5°	285.6	330.7	316.0	291.6	304.2	286.4	228.4	157.7	156.8	154.2	136.7
30°	559.8	599.7	578.9	513.1	530.5	493.2	372.6	348.4	292.2	222.5	194.3
27.5°	1220.0	994.6	958.9	945.1	838.2	768.2	708.0	637.9	492.0	361.0	270.0
25°	2087.8	1753.7	1515.3	1450.1	1318.0	1117.4	1083.2	996.6	817.0	548.7	371.2
22.5°	3095.0	2634.1	2250.4	2012.7	1801.2	1556.5	1428.8	1374.3	1181.2	783.9	535.7
20°	4122.7	3510.1	2988.1	2608.7	2228.3	1936.0	1767.9	1681.9	1442.3	1069.7	707.5
17.5°	6486.9	4607.6	3825.3	3248.1	2710.8	2312.4	2150.7	1946.9	1702.8	1346.8	874.7
15°	10172.7	7109.2	5265.3	4160.5	3366.7	2925.8	2647.7	2258.0	1958.5	1591.5	1134.6
12.5°	19077.0	11378.1	7021.9	5431.1	4405.4	3687.6	3229.1	2695.4	2247.3	1927.4	1519.6
10°	28773.9	17303.9	10438.3	7273.5	5657.2	4558.8	3792.0	3138.6	2623.3	2294.2	1900.1
7.5°	40491.7	23991.1	14068.5	9044.3	6779.0	5301.1	4286.3	3515.6	2972.6	2637.6	2270.4
5°	50011.4	28831.7	16282.3	10370.5	7720.2	5997.8	4791.2	3835.5	3297.1	2959.7	2623.3
2.5°	55914.8	31433.1	17590.6	11469.9	8505.8	6582.7	5205.6	4107.5	3549.0	3168.7	2819.4
0°	57373.0	33482.5	18618.1	11504.2	8894.3	6945.5	5455.0	4345.8	3759.7	3344.0	2985.1
-2.5°	57474.8	32922.2	18398.1	11395.1	8705.0	6869.9	5462.8	4460.1	3879.8	3434.6	3046.0
-5°	53065.5	29999.5	17082.0	11003.7	8421.1	6697.7	5445.8	4564.3	3970.9	3510.6	3067.6
-7.5°	47987.0	26471.9	15397.6	10377.8	8017.8	6470.1	5419.7	4648.7	4033.1	3593.9	3096.5
-10°	38602.3	22275.9	13871.8	9840.8	7646.6	6234.4	5389.6	4675.2	4078.1	3662.0	3079.2
-12.5°	32590.3	18666.5	12016.9	9101.1	7347.6	6137.6	5363.8	4625.2	4108.9	3716.2	3012.3
-15°	24329.0	15566.1	10915.6	8551.7	7103.7	6009.5	5264.8	4478.7	3996.5	3689.0	2893.9
-17.5°	18121.8	12380.5	9347.9	7642.7	6515.5	5827.1	5062.1	4320.0	3804.4	3410.3	2593.4
-20°	12245.0	9626.6	8030.1	6717.8	5760.4	5189.3	4664.9	4042.7	3567.4	3011.8	2213.6



REPORT NUMBER: P731627 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-CV2

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	9081.4	7684.2	6557.5	5634.7	4996.8	4516.3	4075.2	3628.6	3274.1	2599.2	1826.0
-25°	7055.7	6076.6	5341.5	4847.6	4299.6	3854.3	3537.4	3262.7	2816.4	2168.0	1477.8
-27.5°	5661.2	4979.9	4586.0	4221.5	3796.4	3393.2	3129.7	2890.6	2355.6	1742.8	1363.5
-30°	4736.3	4431.3	4097.4	3751.1	3429.0	3104.8	2834.9	2402.3	1908.0	1413.1	1260.6
-32.5°	4236.6	4004.1	3712.0	3404.0	3131.6	2896.9	2470.9	1939.0	1486.0	1306.0	1175.4
-35°	3871.7	3633.4	3354.5	3125.7	2916.4	2556.1	2090.8	1572.6	1322.0	1206.9	1096.1
-37.5°	3536.6	3281.1	3086.3	2877.4	2567.6	2157.3	1643.0	1371.8	1229.0	1125.0	1011.8
-40°	3319.2	3081.4	2774.7	2505.5	2084.5	1618.0	1412.1	1271.9	1160.2	1038.7	921.8
-42.5°	2983.2	2676.6	2308.4	1887.0	1543.1	1419.0	1299.6	1194.5	1078.6	950.4	835.5
-45°	2340.5	1962.5	1617.9	1499.9	1385.8	1297.3	1212.5	1099.9	978.6	863.5	750.7
-47.5°	1640.1	1526.9	1421.1	1348.6	1276.5	1195.8	1096.5	988.5	881.3	776.1	687.5
-50°	1405.2	1362.4	1309.1	1241.2	1157.5	1068.4	977.0	881.6	789.6	707.3	623.1
-52.5°	1323.5	1261.1	1190.6	1111.1	1030.0	949.2	864.5	791.7	715.4	638.2	558.7
-55°	1203.9	1138.2	1067.2	990.9	913.5	850.7	784.0	713.7	642.8	569.2	500.3
-57.5°	1081.2	1019.9	958.9	895.8	830.7	765.7	700.3	634.8	571.1	506.1	443.5
-60°	983.6	926.6	867.9	805.0	737.9	673.3	617.4	559.5	499.7	447.7	394.3
-62.5°	891.0	833.9	771.8	708.1	647.7	591.9	539.1	488.6	441.9	394.4	333.9
-65°	760.9	706.6	653.7	602.0	552.1	504.4	460.0	411.3	361.4	314.2	261.7
-67.5°	609.2	570.1	529.6	485.6	436.9	390.1	345.6	303.6	263.4	223.7	178.0
-70°	433.0	397.5	360.5	324.0	290.6	258.0	224.8	191.6	158.7	133.3	107.2
-72.5°	254.4	230.1	205.5	181.0	155.6	137.5	121.4	104.5	86.3	66.7	51.9
-75°	125.2	113.6	101.7	90.0	77.3	63.6	56.3	52.1	47.8	43.2	38.4
-77.5°	62.4	57.7	53.1	49.8	46.5	43.3	40.0	36.7	34.1	31.7	29.4
-80°	40.5	37.7	35.2	33.5	31.8	30.0	28.1	26.5	25.0	23.7	22.4
-82.5°	26.5	25.0	23.5	22.4	21.2	20.0	18.8	18.0	17.2	16.3	15.4
-85°	17.5	16.3	15.0	14.4	13.8	13.2	12.7	12.7	12.8	12.9	13.0
-87.5°	12.0	10.9	9.9	9.9	9.8	9.8	9.7	10.2	10.7	11.1	11.6
-90°	3.1	3.6	4.1	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1



REPORT NUMBER: P731627 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	10.1	10.1	10.1	10.1	10.6	11.2	11.7	12.2	11.7	11.2	10.6
87.5°	8.1	8.1	8.1	8.1	8.6	9.1	9.6	10.1	10.1	10.1	10.1
85°	8.3	8.4	8.4	8.4	8.7	9.1	9.6	10.1	10.1	10.1	10.1
82.5°	8.6	9.1	9.4	9.5	9.5	9.6	9.8	10.1	10.2	10.1	10.1
80°	8.7	9.2	9.7	10.1	10.1	10.1	10.0	10.1	10.4	10.5	10.4
77.5°	8.7	9.2	9.7	10.1	10.1	10.1	10.1	10.2	10.7	10.9	10.9
75°	8.8	9.3	9.8	10.1	10.1	10.1	10.1	10.3	10.8	11.3	11.4
72.5°	9.7	9.7	9.9	10.1	10.1	10.1	10.1	10.3	10.8	11.3	11.8
70°	11.2	10.3	10.1	10.3	10.3	10.1	10.1	10.4	10.9	11.4	11.9
67.5°	13.2	11.9	10.9	10.7	10.8	10.7	10.2	10.5	11.0	11.4	11.9
65°	21.9	16.0	12.1	11.6	11.4	11.5	11.1	10.7	11.0	11.5	12.0
62.5°	29.9	21.7	16.3	13.2	12.0	11.9	12.0	11.4	11.2	11.6	12.1
60°	37.3	28.0	20.7	16.6	13.5	12.1	12.2	12.0	11.6	11.7	12.1
57.5°	34.5	32.4	26.3	20.2	16.0	13.2	12.2	12.2	12.0	11.9	12.2
55°	29.4	28.4	29.1	24.3	18.6	15.0	12.7	12.2	12.2	12.0	12.2
52.5°	24.0	25.5	27.6	26.6	21.5	16.6	14.0	12.2	12.2	12.2	12.2
50°	19.8	22.9	26.4	27.0	23.7	18.8	15.2	13.1	12.2	12.2	12.3
47.5°	19.8	22.5	24.8	27.6	25.5	20.6	16.6	14.0	12.2	12.2	12.5
45°	22.9	24.1	24.9	26.7	27.2	22.0	17.8	14.7	12.8	12.3	12.6
42.5°	27.9	28.4	27.7	26.2	27.2	23.1	18.7	15.5	13.4	12.4	12.8
40°	38.5	34.7	31.9	31.1	28.2	23.8	19.3	16.0	13.9	12.7	12.9
37.5°	51.1	44.8	39.1	40.1	32.3	26.0	19.6	16.3	14.5	13.3	13.0
35°	74.5	58.1	55.6	54.1	43.4	29.4	19.6	16.4	15.3	13.9	13.1
32.5°	102.5	86.2	83.5	72.7	57.5	33.9	21.8	17.8	16.3	14.4	13.3
30°	155.1	139.4	119.5	94.8	75.0	47.0	26.8	19.7	17.3	14.9	13.5
27.5°	239.0	201.8	164.9	127.9	96.0	62.8	33.3	22.0	18.5	15.6	13.9
25°	328.9	278.9	225.0	168.7	119.2	85.8	39.8	24.7	20.1	16.5	14.3
22.5°	423.8	362.0	291.2	214.1	152.8	112.8	52.3	30.1	22.2	17.4	14.7
20°	520.3	447.9	365.3	268.7	194.1	141.5	72.6	35.3	24.4	18.4	15.1
17.5°	626.6	552.4	461.0	337.5	239.0	171.4	94.8	40.4	26.7	19.4	15.4
15°	829.7	679.3	565.8	412.4	283.4	202.3	118.4	45.2	29.1	20.4	15.8
12.5°	1077.4	807.3	677.2	491.3	326.8	233.5	142.5	49.7	31.6	22.1	16.3
10°	1349.8	935.5	792.5	572.1	368.8	264.6	166.5	57.6	36.4	24.5	16.8
7.5°	1635.4	1062.4	908.7	652.5	413.9	308.4	213.5	73.8	41.7	27.1	17.2
5°	1900.9	1176.8	1023.9	752.6	484.2	364.6	264.2	90.7	46.9	29.7	17.6
2.5°	2059.6	1269.9	1132.0	849.8	552.0	418.8	313.3	107.5	52.0	32.2	18.0
0°	2188.1	1356.7	1230.9	938.9	616.5	470.5	358.9	123.7	56.8	34.5	18.3
-2.5°	2214.5	1406.1	1265.3	989.5	677.0	521.1	395.7	150.4	75.4	45.8	24.3
-5°	2209.2	1449.6	1291.9	1031.4	732.8	568.1	426.4	175.2	93.3	56.5	30.1
-7.5°	2202.6	1470.3	1305.7	1061.6	783.4	610.7	450.4	197.8	110.0	66.6	35.6
-10°	2154.5	1474.9	1302.3	1057.4	794.2	628.2	463.7	217.8	125.3	75.6	40.4
-12.5°	2049.8	1474.0	1293.2	1044.1	791.4	622.6	449.8	231.7	138.6	83.6	44.5
-15°	1883.0	1467.8	1279.0	1021.5	780.6	613.5	433.6	241.4	149.3	90.7	47.7
-17.5°	1638.5	1456.3	1260.5	989.6	761.0	600.7	415.8	248.3	158.3	97.0	50.7
-20°	1523.5	1400.3	1234.1	948.5	732.0	584.4	397.4	252.4	165.5	101.7	53.2



REPORT NUMBER: P731627 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1438.5	1307.8	1138.8	910.5	701.0	564.7	379.2	253.3	170.7	104.4	54.6
-25°	1340.0	1212.7	1037.3	840.6	675.2	535.8	369.5	251.1	173.8	105.3	54.6
-27.5°	1233.6	1112.2	941.0	770.9	636.8	509.8	365.0	253.5	174.7	104.0	53.1
-30°	1126.5	1007.3	859.1	708.0	596.8	474.2	356.6	253.4	172.9	101.8	50.2
-32.5°	1044.2	912.1	782.5	661.9	555.0	438.1	336.6	250.5	168.2	98.3	48.1
-35°	966.9	835.0	710.6	614.7	513.1	407.9	313.3	244.8	160.5	92.7	45.5
-37.5°	886.4	764.9	658.5	567.9	471.8	375.2	294.4	226.6	149.7	84.8	41.6
-40°	808.7	700.4	608.9	523.7	432.8	340.3	273.6	205.8	138.1	74.7	36.6
-42.5°	730.8	644.2	560.0	480.1	392.3	315.2	250.8	183.6	121.6	66.1	30.3
-45°	667.8	586.7	509.2	432.4	351.7	288.4	224.8	160.5	103.2	57.4	25.6
-47.5°	602.9	528.6	457.9	384.7	320.2	259.4	197.4	138.3	83.6	47.2	24.1
-50°	537.5	471.9	407.9	345.4	286.9	227.8	169.1	114.4	69.7	35.1	22.3
-52.5°	483.3	420.7	363.0	307.4	251.2	194.9	140.7	90.0	54.7	29.3	20.2
-55°	433.4	372.6	320.2	267.2	213.8	161.1	110.6	71.7	38.8	26.1	17.9
-57.5°	386.0	326.3	275.1	225.0	174.2	125.5	85.2	52.4	31.9	22.7	17.7
-60°	337.2	278.2	228.0	179.1	132.1	93.1	62.0	37.0	27.3	19.6	17.3
-62.5°	277.6	224.7	174.4	129.9	94.5	65.1	41.0	31.2	22.5	18.9	16.8
-65°	209.6	161.4	118.6	89.2	61.6	41.5	33.6	25.0	20.5	18.0	16.2
-67.5°	134.9	104.7	76.3	50.9	40.4	33.5	26.0	21.8	19.1	17.0	15.7
-70°	80.7	55.7	44.1	38.1	31.9	26.0	22.7	19.8	17.6	16.1	15.0
-72.5°	45.8	40.0	34.5	29.4	26.1	23.0	20.1	17.8	16.4	15.2	14.4
-75°	33.6	30.5	27.9	25.2	22.4	19.8	17.8	16.2	15.1	14.3	13.8
-77.5°	27.1	25.0	22.9	21.2	19.3	17.5	15.9	14.6	14.0	13.6	13.2
-80°	21.0	19.8	18.7	17.8	16.4	15.1	14.2	13.6	13.2	12.9	12.6
-82.5°	15.0	15.0	15.1	15.0	14.3	13.7	13.1	12.7	12.5	12.2	12.0
-85°	13.1	13.1	13.0	12.8	12.5	12.2	12.2	12.2	12.1	11.9	11.6
-87.5°	11.5	11.4	11.4	11.3	11.5	11.7	11.9	12.2	11.9	11.5	11.1
-90°	8.1	8.1	8.1	8.1	8.6	9.1	9.6	10.1	10.1	10.1	10.1



REPORT NUMBER: P731627 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1
87.5°	10.1	10.2	10.3	10.3	10.3	10.1	10.1
85°	10.1	10.3	10.5	10.5	10.5	10.2	10.1
82.5°	10.1	10.5	10.7	10.7	10.6	10.2	10.1
80°	10.2	10.6	10.8	10.9	10.8	10.3	10.1
77.5°	10.7	10.8	11.0	11.1	11.0	10.3	10.1
75°	11.3	11.1	11.2	11.4	11.1	10.4	10.1
72.5°	11.8	11.5	11.4	11.6	11.3	10.4	10.1
70°	12.2	11.8	11.6	11.8	11.4	10.4	10.1
67.5°	12.2	12.1	11.8	11.9	11.6	10.5	10.1
65°	12.2	12.2	11.9	11.9	11.7	10.5	10.1
62.5°	12.2	12.2	12.1	12.0	11.8	10.5	10.1
60°	12.2	12.2	12.2	12.0	11.9	10.6	10.1
57.5°	12.2	12.2	12.2	12.1	11.9	10.6	10.1
55°	12.2	12.2	12.2	12.1	11.9	10.6	10.1
52.5°	12.2	12.2	12.2	12.2	11.9	10.6	10.1
50°	12.2	12.2	12.2	12.2	11.8	10.6	10.1
47.5°	12.2	12.2	12.2	12.2	11.8	10.6	10.1
45°	12.4	12.2	12.2	12.2	11.8	10.6	10.1
42.5°	12.6	12.2	12.2	12.2	11.8	10.6	10.1
40°	12.8	12.2	12.2	12.2	11.8	10.6	10.1
37.5°	13.0	12.2	12.2	12.2	11.9	10.6	10.1
35°	13.3	12.3	12.2	12.2	11.9	10.6	10.1
32.5°	13.6	12.5	12.2	12.2	11.9	10.6	10.1
30°	13.7	12.8	12.2	12.2	11.9	10.6	10.1
27.5°	13.8	13.0	12.2	12.2	11.9	10.5	10.1
25°	13.9	13.2	12.2	12.2	12.0	10.5	10.1
22.5°	14.0	13.4	12.2	12.2	12.0	10.5	10.1
20°	14.2	13.6	12.2	12.2	12.0	10.4	10.1
17.5°	14.3	13.7	12.2	12.2	12.1	10.4	10.1
15°	14.5	13.9	12.2	12.2	12.1	10.4	10.1
12.5°	14.8	14.0	12.2	12.2	12.1	10.3	10.1
10°	15.0	14.0	12.2	12.2	12.1	10.3	10.1
7.5°	15.3	14.1	12.2	12.2	12.2	10.2	10.1
5°	15.6	14.2	12.2	12.2	12.2	10.2	10.1
2.5°	15.9	14.2	12.2	12.2	12.2	10.1	10.1
0°	16.2	14.2	12.2	12.2	12.2	10.1	10.1
-2.5°	17.8	14.2	12.2	12.2	12.2	10.1	10.1
-5°	19.3	14.2	12.2	12.2	12.2	10.1	10.1
-7.5°	20.7	14.1	12.2	12.2	12.2	10.1	10.1
-10°	21.9	14.0	12.2	12.2	12.1	10.1	10.1
-12.5°	22.8	14.0	12.2	12.2	12.1	10.1	10.1
-15°	23.4	13.9	12.2	12.2	12.1	10.1	10.1
-17.5°	23.7	13.7	12.2	12.2	12.0	10.1	10.1
-20°	24.0	13.6	12.2	12.2	11.9	10.1	10.1



REPORT NUMBER: P731627 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-80-3S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	24.7	13.4	12.2	12.2	11.9	10.1	10.1
-25°	24.8	13.7	12.2	12.2	11.8	10.1	10.1
-27.5°	24.1	13.9	12.2	12.2	11.7	10.1	10.1
-30°	22.7	14.1	12.2	12.2	11.6	10.1	10.1
-32.5°	20.5	14.1	12.4	12.2	11.5	10.1	10.1
-35°	19.7	13.9	12.6	12.2	11.4	10.1	10.1
-37.5°	19.5	13.8	12.7	12.2	11.3	10.1	10.1
-40°	19.0	14.0	12.8	12.2	11.2	10.1	10.1
-42.5°	18.3	14.1	12.9	12.2	11.1	10.1	10.1
-45°	17.4	14.2	13.0	12.3	11.0	10.1	10.1
-47.5°	16.2	14.2	13.0	12.3	10.8	10.1	10.1
-50°	16.0	14.2	13.0	12.2	10.7	10.1	10.1
-52.5°	15.9	14.2	13.0	12.0	10.6	10.1	10.1
-55°	15.8	14.2	13.0	11.8	10.4	10.1	10.1
-57.5°	15.6	14.1	13.0	11.7	10.3	10.1	10.1
-60°	15.4	13.9	12.9	11.5	10.1	10.1	10.1
-62.5°	15.1	13.8	12.6	11.2	10.1	10.1	10.1
-65°	14.8	13.6	12.4	11.0	10.1	10.1	10.1
-67.5°	14.5	13.3	12.1	10.8	10.1	10.1	10.1
-70°	14.1	12.9	11.8	10.6	10.1	10.1	10.1
-72.5°	13.6	12.6	11.5	10.5	10.1	10.1	10.1
-75°	13.2	12.2	11.1	10.5	10.1	10.1	10.1
-77.5°	12.7	11.8	11.0	10.4	10.1	10.1	10.1
-80°	12.2	11.4	10.8	10.4	10.1	10.1	10.1
-82.5°	11.7	11.1	10.6	10.3	10.1	10.1	10.1
-85°	11.2	10.8	10.5	10.2	10.1	10.1	10.1
-87.5°	10.6	10.4	10.3	10.2	10.1	10.1	10.1
-90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1

(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

