

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: P731348 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-5S-CV5**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731348 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-30)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-80-5S-CV5
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

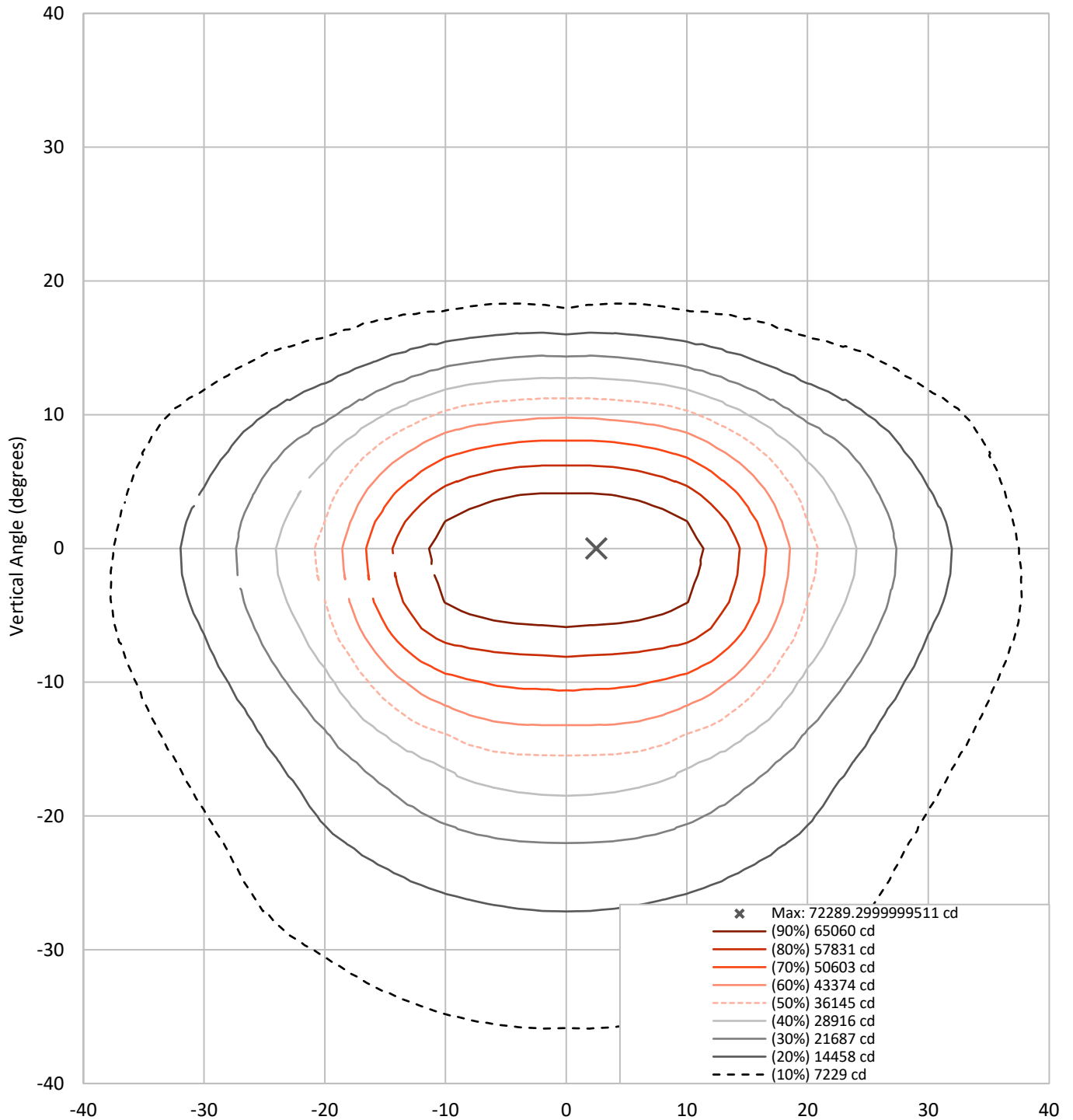
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 4V
Luminaire Lumens:	28645.1 lumens	Max Intensity:	72289.3 candela
Efficiency:	N/A	Max Intensity Angle:	2.5°H x 0°V
Efficacy:	82.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	41.7°H x 26.5°V	Field Angle (10%):	74.8°H x 54.1°V
Beam Lumens:	14197.1 lumens	Field Lumens:	25678.2 lumens
Beam Efficiency:	49.6%	Field Efficiency:	89.6%

Input Watts (W): 345.8
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





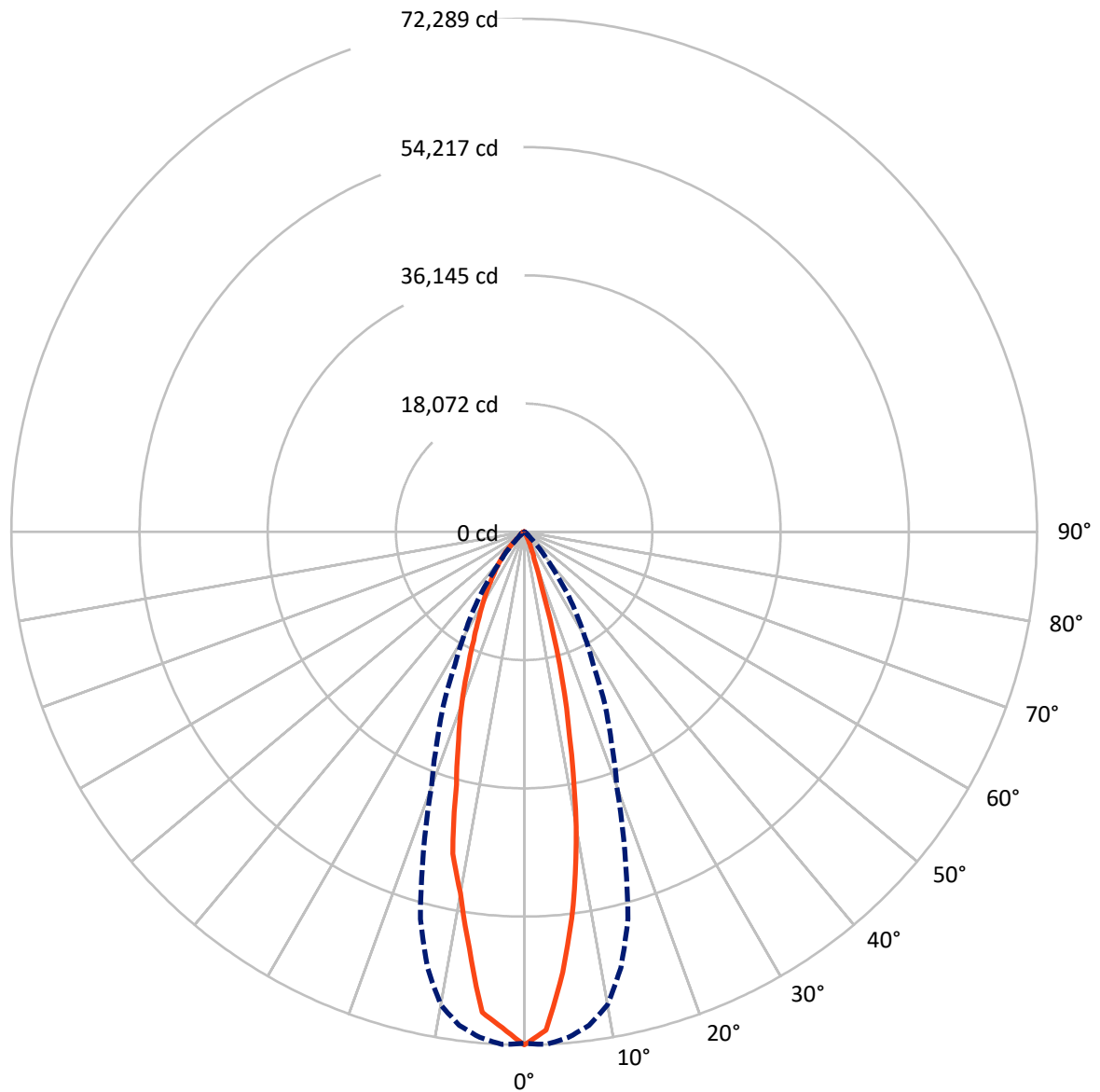
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Lumen Table

90																
80	0.1	0.3		0.5		0.5		0.3		0.5		0.5		0.3		0.1
70																
60	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0.1
50		0.1	0.2	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.2	0.1	
40	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1
30		0.1	0.3	0.5	1.1	2.4	3.7	5.1	5.1	3.7	2.4	1.1	0.5	0.3	0.1	
20	0.1	0.2	0.8	2.0	9.2	21.1	39.7	56.2	56.2	39.7	21.1	9.2	2.0	0.8	0.2	0.1
10		0.5	2.8	12.6	72.8	193.4	397.3	588.2	588.2	397.3	193.4	72.8	12.6	2.8	0.5	
0	0.2	0.9	6.1	37.7	213.0	606.7	1304.1	1796.3	1796.3	1304.1	606.7	213.0	37.7	6.1	0.9	0.2
-10		1.2	7.4	46.7	243.2	663.7	1457.9	1936.7	1936.7	1457.9	663.7	243.2	46.7	7.4	1.2	
-20	0.2	1.3	6.6	29.9	154.6	398.8	808.1	1125.2	1125.2	808.1	398.8	154.6	29.9	6.6	1.3	0.2
-30		1.2	5.6	13.9	81.4	227.8	398.2	515.4	515.4	398.2	227.8	81.4	13.9	5.6	1.2	
-40	0.2	1.0	4.1	9.1	27.2	103.7	185.1	235.8	235.8	185.1	103.7	27.2	9.1	4.1	1.0	0.2
-50		0.6	2.6	6.7	12.3	22.3	48.9	71.9	71.9	48.9	22.3	12.3	6.7	2.6	0.6	
-60	0.1	0.3	1.3	3.6	7.2	11.4	14.7	16.5	16.5	14.7	11.4	7.2	3.6	1.3	0.3	0.1
-70		0.1	0.5	1.3	2.6	4.3	6.1	7.1	7.1	6.1	4.3	2.6	1.3	0.5	0.1	
-80																
-90	0.1	0.4		1.3		3.4		4.6		3.4		1.3		0.4		0.1

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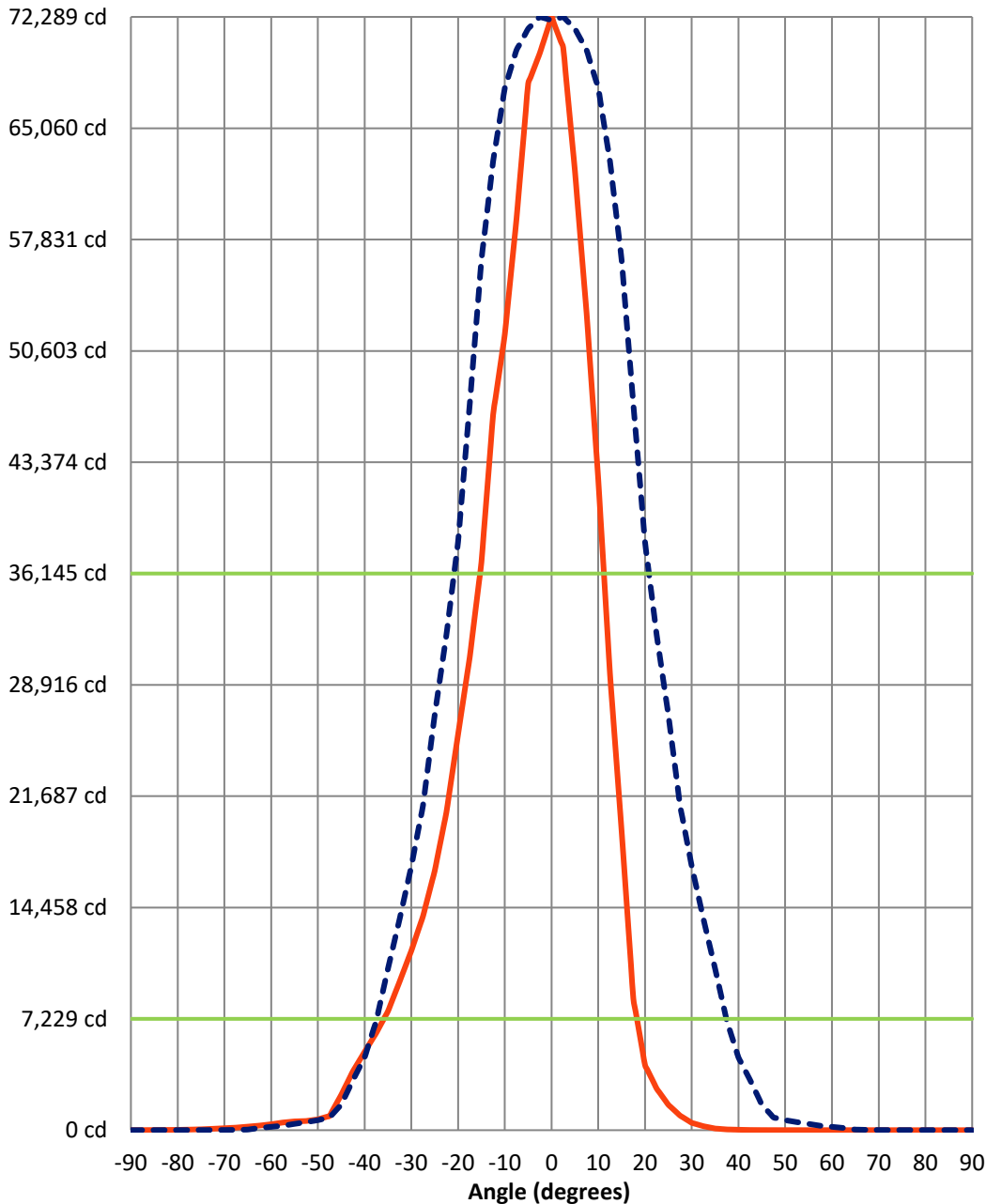
Luminous Intensity Polar Plot



— Vertical Distribution Through 2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 41.7°
 V Angle: 26.5°
 Lumens: 14197.1
 Efficiency: 49.6%

Field:
 H Angle: 74.8°
 V Angle: 54.1°
 Lumens: 25678.2
 Efficiency: 89.6%

Spill:
 Lumens: 2967
 Efficiency: 10.4%

— Vertical Distribution through 2.5-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°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
87.5°	4.4	4.4	4.5	4.5	4.6	4.6	4.7	4.6	4.6	4.5	4.4
85°	4.4	4.4	4.6	4.7	4.8	4.9	5.0	4.9	4.8	4.6	4.4
82.5°	4.4	4.5	4.7	4.8	5.0	5.1	5.3	5.2	5.0	4.8	4.7
80°	4.4	4.5	4.8	5.0	5.2	5.3	5.5	5.3	5.2	5.1	5.2
77.5°	4.4	4.5	4.9	5.1	5.3	5.5	5.5	5.4	5.3	5.4	5.5
75°	4.4	4.5	4.9	5.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5
72.5°	4.4	4.6	5.0	5.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5
70°	4.4	4.6	5.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
67.5°	4.4	4.6	5.2	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
65°	4.4	4.6	5.2	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
62.5°	4.4	4.6	5.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
60°	4.4	4.6	5.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
57.5°	4.4	4.6	5.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
55°	4.4	4.7	5.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
52.5°	4.4	4.7	5.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
50°	4.4	4.7	5.3	5.5	5.5	5.5	5.5	5.6	5.5	5.5	5.8
47.5°	4.4	4.7	5.3	5.5	5.5	5.5	5.5	5.6	5.5	5.5	6.2
45°	4.4	4.7	5.3	5.5	5.5	5.5	5.6	5.7	5.6	5.8	6.6
42.5°	4.4	4.7	5.3	5.5	5.5	5.5	5.7	5.9	5.7	6.1	7.0
40°	4.4	4.7	5.3	5.5	5.5	5.5	5.8	6.0	6.0	6.4	7.3
37.5°	4.4	4.7	5.3	5.5	5.5	5.5	6.0	6.2	6.4	6.9	7.6
35°	4.4	4.7	5.3	5.5	5.5	5.6	6.1	6.4	6.8	7.4	7.8
32.5°	4.4	4.6	5.3	5.5	5.5	5.7	6.3	6.6	7.1	7.9	8.5
30°	4.4	4.6	5.4	5.5	5.5	5.8	6.5	6.9	7.5	8.4	9.3
27.5°	4.4	4.6	5.4	5.5	5.5	5.9	6.6	7.2	7.9	9.0	10.3
25°	4.4	4.6	5.4	5.5	5.5	6.1	6.8	7.5	8.4	9.7	11.4
22.5°	4.4	4.6	5.4	5.5	5.5	6.2	7.0	7.8	8.8	10.5	13.4
20°	4.4	4.6	5.4	5.5	5.5	6.3	7.3	8.1	9.3	11.4	15.6
17.5°	4.4	4.6	5.4	5.5	5.5	6.3	7.4	8.3	9.8	12.4	18.0
15°	4.4	4.5	5.4	5.5	5.5	6.4	7.5	8.5	10.3	13.4	20.6
12.5°	4.4	4.5	5.5	5.5	5.5	6.5	7.5	8.6	10.7	14.3	23.3
10°	4.4	4.5	5.5	5.5	5.5	6.5	7.6	8.7	11.0	15.6	26.3
7.5°	4.4	4.5	5.5	5.5	5.5	6.6	7.6	8.7	11.3	17.0	29.8
5°	4.4	4.4	5.5	5.5	5.5	6.6	7.7	8.8	11.6	18.3	33.2
2.5°	4.4	4.4	5.5	5.5	5.5	6.6	7.7	8.8	11.9	19.6	36.5
0°	4.4	4.4	5.5	5.5	5.5	6.6	7.7	8.8	12.1	20.8	39.5
-2.5°	4.4	4.4	5.5	5.5	5.6	6.7	7.8	9.8	15.0	26.2	48.2
-5°	4.4	4.4	5.5	5.5	5.7	6.8	8.0	10.8	17.8	31.3	56.4
-7.5°	4.4	4.5	5.5	5.5	5.8	6.9	8.1	11.7	20.4	35.9	63.8
-10°	4.4	4.5	5.5	5.5	5.9	7.0	8.2	12.4	22.6	40.1	70.2
-12.5°	4.4	4.5	5.5	5.5	5.9	7.1	8.3	13.0	24.5	43.6	75.2
-15°	4.4	4.5	5.4	5.5	6.0	7.1	8.3	13.4	26.0	46.5	78.8
-17.5°	4.4	4.6	5.4	5.5	6.0	7.2	8.4	14.0	27.3	48.7	81.3
-20°	4.4	4.6	5.4	5.5	6.1	7.2	8.7	14.8	28.1	49.9	82.4



REPORT NUMBER: P731348 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-CV5

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.4	4.6	5.4	5.5	6.1	7.2	9.2	15.3	28.4	50.3	82.2
-25°	4.4	4.6	5.4	5.5	6.1	7.3	9.5	15.6	28.0	49.6	80.6
-27.5°	4.4	4.6	5.4	5.5	6.1	7.3	9.6	15.5	27.1	48.3	79.6
-30°	4.4	4.6	5.4	5.5	6.0	7.2	9.6	15.2	26.5	47.1	77.3
-32.5°	4.4	4.6	5.3	5.5	6.0	7.1	9.3	15.1	26.0	45.0	73.5
-35°	4.4	4.7	5.3	5.5	5.9	7.0	9.1	14.8	25.2	42.1	68.3
-37.5°	4.4	4.7	5.3	5.5	5.8	6.8	8.9	14.2	23.9	38.2	61.2
-40°	4.4	4.7	5.3	5.5	5.7	6.7	8.7	13.2	22.3	35.6	54.5
-42.5°	4.4	4.7	5.3	5.5	5.7	6.6	8.3	11.9	20.6	32.4	47.3
-45°	4.4	4.7	5.3	5.5	5.7	6.5	7.9	10.7	18.7	28.7	40.2
-47.5°	4.4	4.7	5.3	5.6	5.8	6.4	7.4	10.1	16.2	24.7	35.6
-50°	4.4	4.7	5.3	5.6	5.8	6.2	7.1	9.3	13.1	21.1	30.6
-52.5°	4.4	4.7	5.3	5.6	5.8	6.1	7.0	8.5	11.4	17.4	25.4
-55°	4.4	4.7	5.3	5.6	5.9	6.1	6.8	7.6	10.2	13.4	20.9
-57.5°	4.4	4.6	5.3	5.6	5.9	6.1	6.6	7.4	9.0	11.5	16.2
-60°	4.4	4.6	5.4	5.6	5.9	6.1	6.4	7.1	7.9	10.0	12.3
-62.5°	4.4	4.6	5.3	5.6	5.9	6.2	6.4	6.9	7.6	8.6	10.7
-65°	4.4	4.6	5.2	5.6	5.8	6.2	6.5	6.7	7.3	8.0	9.1
-67.5°	4.4	4.6	5.2	5.5	5.7	6.2	6.5	6.7	7.0	7.7	8.3
-70°	4.4	4.6	5.1	5.5	5.7	6.0	6.5	6.7	6.9	7.3	7.9
-72.5°	4.4	4.6	5.0	5.4	5.6	5.9	6.3	6.6	6.8	7.1	7.5
-75°	4.4	4.5	4.9	5.3	5.5	5.7	6.1	6.4	6.6	6.8	7.1
-77.5°	4.4	4.5	4.9	5.1	5.3	5.6	5.8	6.0	6.3	6.5	6.7
-80°	4.4	4.5	4.8	5.0	5.2	5.3	5.5	5.7	5.9	6.1	6.3
-82.5°	4.4	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.5	5.7	5.8
-85°	4.4	4.4	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.2	5.3
-87.5°	4.4	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.9
-90°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-CV5

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
82.5°	4.7	4.7	4.6	4.4	4.4	4.4	4.4	4.5	4.6	4.6	4.5
80°	5.1	5.0	4.8	4.7	4.9	5.0	5.2	5.3	5.2	5.0	4.7
77.5°	5.3	5.3	5.3	5.3	5.5	5.5	5.5	5.5	5.3	5.0	4.7
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.7	5.8	5.7	5.6
72.5°	5.5	5.5	5.5	5.5	5.5	5.7	6.0	6.4	6.6	6.6	6.5
70°	5.5	5.5	5.5	5.5	5.6	5.9	6.5	7.1	7.4	7.6	8.0
67.5°	5.5	5.5	5.5	5.6	6.0	6.6	7.2	8.2	9.5	10.1	10.8
65°	5.5	5.5	5.6	6.0	6.5	7.3	8.5	10.0	12.8	14.5	15.1
62.5°	5.5	5.6	5.9	6.4	7.1	8.1	10.3	13.4	17.5	19.9	19.7
60°	5.5	5.6	6.2	6.9	7.7	9.4	12.5	16.7	22.2	26.3	23.7
57.5°	5.5	5.9	6.6	7.6	8.9	10.3	14.3	19.6	25.1	31.1	26.6
55°	5.7	6.3	7.3	8.6	9.9	11.2	15.0	19.7	25.9	29.1	24.8
52.5°	6.1	6.8	8.2	9.5	10.8	11.6	13.3	17.8	21.1	23.5	21.1
50°	6.5	7.6	9.0	10.1	11.0	11.0	10.5	13.9	16.5	17.4	17.1
47.5°	7.1	8.4	9.4	10.4	10.5	10.3	9.3	10.9	12.7	13.6	13.0
45°	7.6	8.8	9.7	10.1	10.3	9.9	9.5	9.1	11.0	11.5	11.0
42.5°	8.1	9.1	9.8	9.9	10.4	10.6	10.5	10.2	10.4	10.7	10.6
40°	8.4	9.4	10.0	10.9	11.1	12.0	12.7	12.6	10.7	11.9	12.1
37.5°	8.6	9.7	10.9	13.1	12.8	14.4	15.5	17.1	15.6	14.7	16.4
35°	8.9	10.2	13.8	16.5	16.6	17.5	21.4	23.3	22.1	20.9	23.0
32.5°	9.2	10.7	17.7	20.5	22.1	23.6	29.0	30.1	31.0	31.6	33.3
30°	10.2	14.2	22.1	25.0	28.4	34.3	37.2	38.1	42.0	47.5	62.1
27.5°	12.2	18.9	26.3	30.8	36.2	46.3	50.1	50.6	57.2	71.3	106.5
25°	14.8	29.9	30.9	37.4	47.6	59.6	67.5	75.0	77.5	119.8	203.7
22.5°	20.7	44.0	49.0	44.6	59.7	75.2	91.9	113.1	145.3	194.0	318.4
20°	31.1	59.5	71.6	74.8	78.5	92.9	120.1	162.9	263.4	436.7	602.1
17.5°	43.1	77.4	96.9	112.8	130.7	136.5	154.1	222.4	412.4	782.8	1216.3
15°	56.4	97.1	124.2	155.4	188.4	213.8	250.8	357.4	663.8	1260.9	2005.2
12.5°	70.4	118.2	153.1	201.5	250.4	295.7	365.2	593.2	1108.5	1936.8	3065.9
10°	84.8	140.2	182.9	250.0	315.3	381.0	483.9	863.0	1634.5	2657.1	4032.1
7.5°	100.5	161.8	212.6	299.7	381.9	468.1	604.4	1153.3	2179.1	3322.4	4869.1
5°	115.9	181.9	239.0	339.6	436.5	543.6	713.8	1447.6	2719.6	3929.3	5628.0
2.5°	130.1	200.8	264.4	375.8	481.3	598.9	774.0	1569.0	3030.7	4377.2	6376.1
0°	142.6	218.2	288.4	409.0	523.1	650.3	826.8	1656.9	3244.7	4720.7	7105.7
-2.5°	148.0	224.8	300.3	419.1	521.4	642.1	827.1	1686.1	3428.1	5128.6	7474.2
-5°	151.3	229.5	309.8	425.7	517.2	629.9	819.1	1673.2	3458.3	5222.9	7328.6
-7.5°	152.7	232.2	316.5	427.1	506.7	605.9	782.4	1551.0	3130.4	4790.4	6646.1
-10°	152.3	231.5	313.8	413.8	487.4	573.8	733.5	1389.9	2751.0	4302.2	5920.5
-12.5°	149.5	227.8	307.6	399.1	468.6	540.1	677.2	1191.7	2335.0	3773.1	5226.1
-15°	145.6	222.6	299.4	383.9	451.2	505.5	613.9	957.6	1901.5	3298.4	4668.4
-17.5°	140.8	216.0	289.3	368.6	435.9	470.5	546.1	723.4	1513.7	2790.0	4107.0
-20°	135.2	208.1	277.3	353.9	421.9	447.6	510.2	652.2	1196.9	2223.3	3497.5



REPORT NUMBER: P731348 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-CV5

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	129.1	199.2	264.8	338.4	401.5	435.6	478.6	576.9	853.5	1603.0	2839.2
-25°	125.4	189.6	252.7	318.1	381.2	424.2	446.3	504.6	645.2	1209.6	2144.8
-27.5°	122.9	180.2	236.2	296.2	361.1	410.0	428.3	468.4	567.1	801.5	1492.0
-30°	118.6	165.8	218.4	273.8	336.6	387.5	416.8	440.4	500.0	628.3	1023.4
-32.5°	109.8	150.3	200.5	252.9	309.6	366.1	408.2	430.9	469.5	535.9	668.6
-35°	99.3	137.6	182.1	230.6	281.6	339.7	389.2	426.7	444.9	490.7	575.7
-37.5°	89.7	124.0	163.0	208.3	256.2	309.7	367.5	409.8	440.0	461.0	521.7
-40°	79.1	109.5	146.1	186.6	230.5	279.5	333.1	385.5	425.7	460.7	487.7
-42.5°	68.0	96.8	129.4	164.2	205.6	249.9	297.2	349.5	401.3	448.5	485.0
-45°	59.5	83.1	112.2	144.7	180.0	219.9	263.5	309.0	363.1	417.4	464.7
-47.5°	50.5	69.8	96.1	124.0	155.6	190.7	228.9	271.7	317.4	369.9	425.3
-50°	42.0	59.3	78.7	104.4	131.7	162.1	195.9	233.5	274.6	318.1	366.3
-52.5°	35.9	48.3	65.2	84.7	108.9	134.9	164.3	196.7	232.2	269.3	308.4
-55°	29.3	40.0	52.2	68.2	86.8	109.4	134.1	162.3	190.8	223.8	253.7
-57.5°	23.4	32.1	41.8	53.3	68.4	84.9	106.6	129.1	154.6	180.4	202.5
-60°	17.9	24.9	33.0	41.9	51.6	65.8	80.4	99.1	119.8	139.6	158.5
-62.5°	12.8	18.6	25.1	32.3	40.3	48.5	60.4	73.6	86.8	103.4	118.7
-65°	11.0	13.2	18.0	24.0	30.1	37.8	45.3	52.5	63.5	74.3	84.4
-67.5°	9.1	10.9	13.0	16.0	21.5	27.8	34.1	40.8	47.1	52.6	58.9
-70°	8.4	8.7	10.1	12.1	14.5	18.4	24.0	29.6	35.1	40.3	45.3
-72.5°	7.9	8.2	8.5	8.8	10.7	13.4	16.3	19.3	23.1	27.4	31.8
-75°	7.4	7.7	7.9	8.2	8.8	9.8	11.2	13.6	16.0	18.2	20.2
-77.5°	6.9	7.1	7.3	7.5	7.9	8.6	9.4	10.4	11.6	12.8	14.2
-80°	6.4	6.6	6.8	6.9	7.2	7.5	7.9	8.4	9.1	10.0	11.0
-82.5°	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.9	7.2	7.6	8.0
-85°	5.4	5.5	5.6	5.7	5.7	5.8	5.9	6.0	6.0	6.1	6.1
-87.5°	4.9	4.9	5.0	5.0	5.1	5.1	5.1	5.2	5.2	5.2	5.3
-90°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4



REPORT NUMBER: P731348 (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°	4.4	4.7	5.0	5.2	5.5	6.3	7.1	8.0	8.8	8.5	8.2
87.5°	4.4	4.1	3.9	3.6	3.3	3.0	2.8	2.5	2.2	1.9	1.7
85°	4.4	4.3	4.3	4.2	4.2	4.0	3.7	3.5	3.2	2.7	2.2
82.5°	4.4	4.4	4.4	4.4	4.4	4.1	3.9	3.6	3.3	2.8	2.2
80°	4.4	4.4	4.4	4.4	4.4	4.2	3.9	3.6	3.3	2.8	2.2
77.5°	4.6	4.6	4.6	4.5	4.4	4.2	3.9	3.6	3.3	2.8	2.3
75°	5.5	5.4	5.2	4.9	4.5	4.2	3.9	3.6	3.4	3.0	2.7
72.5°	6.4	6.2	5.9	5.7	5.4	5.2	4.9	4.6	4.3	4.0	3.8
70°	8.5	8.7	8.5	8.0	7.4	6.7	6.3	5.9	5.4	4.9	4.5
67.5°	11.4	11.5	10.9	10.0	8.7	7.5	6.9	6.3	5.8	5.4	5.4
65°	15.0	13.7	12.3	10.8	9.2	7.6	7.0	6.4	5.8	5.5	5.5
62.5°	18.2	14.7	11.9	10.1	8.7	7.6	6.8	6.0	5.2	4.7	4.6
60°	19.6	14.0	10.0	8.7	7.7	6.7	5.9	5.3	4.7	4.4	4.1
57.5°	19.6	13.3	8.5	7.4	6.5	5.7	5.3	5.0	4.7	4.4	4.0
55°	17.8	11.8	7.0	6.3	6.0	5.7	5.4	5.1	4.7	4.4	4.1
52.5°	14.5	10.4	7.4	6.4	6.1	5.8	5.5	5.1	4.8	4.5	4.1
50°	12.7	9.5	7.6	6.5	6.2	5.9	5.5	5.4	5.4	5.2	5.0
47.5°	11.0	8.7	7.5	6.7	6.5	7.0	7.3	7.4	7.2	7.0	6.7
45°	9.6	8.4	7.8	8.2	8.5	9.2	9.6	9.6	9.6	9.6	9.6
42.5°	9.6	9.6	10.3	11.3	11.3	12.7	13.4	11.8	13.5	14.5	13.6
40°	12.6	13.0	16.0	18.4	20.7	21.0	24.6	25.1	25.6	27.1	27.4
37.5°	18.5	21.7	31.0	38.1	41.0	41.3	46.5	47.6	46.1	52.4	54.2
35°	28.3	42.9	58.1	66.8	71.8	75.5	82.5	90.6	86.8	100.7	105.6
32.5°	50.8	77.5	105.1	104.1	113.4	138.4	147.7	162.4	177.8	201.3	227.0
30°	85.4	157.7	189.6	178.0	204.4	240.0	240.3	281.3	338.5	387.0	460.1
27.5°	192.4	273.4	315.1	333.8	353.7	398.8	454.7	506.9	652.3	751.8	856.3
25°	326.6	438.4	483.1	552.5	615.5	657.3	826.2	949.5	1158.6	1310.3	1467.3
22.5°	526.6	674.5	767.0	829.8	1042.0	1230.6	1411.1	1679.7	1887.3	2147.5	2343.7
20°	777.1	976.7	1316.7	1583.5	1716.7	2117.5	2443.9	2721.5	3089.6	3412.4	3699.5
17.5°	1466.4	1578.5	2288.8	2983.9	3264.9	3783.1	4721.6	5075.7	6135.8	6912.0	7331.1
15°	2655.1	3197.5	3945.7	5104.4	6390.0	7405.5	8295.1	10117.0	12139.6	13932.6	15820.4
12.5°	4198.5	5259.2	6518.3	7935.9	10252.0	12089.9	14058.5	16662.2	19929.6	22773.3	26118.7
10°	5744.7	7537.0	9277.4	11486.3	14411.9	17249.6	20085.0	24209.0	29008.5	33616.5	37600.8
7.5°	7023.2	9452.9	11811.5	14865.2	18850.2	22803.8	26766.8	32221.2	38568.9	43828.0	48349.2
5°	8324.4	11367.2	14134.0	17655.8	22345.8	27161.1	32120.5	38921.7	46419.3	52374.5	57039.3
2.5°	9519.2	12967.2	16169.5	20096.6	25319.4	30030.7	35676.0	44025.4	52959.3	59383.7	64526.2
0°	10484.2	13715.8	17137.1	21089.1	26953.5	32146.9	38196.6	47150.0	56498.2	62917.0	67662.4
-2.5°	10276.5	13545.1	16744.0	20759.2	26646.7	31427.9	37552.5	46361.7	55597.8	62119.1	66381.2
-5°	9628.0	12521.0	15393.1	19164.1	24341.4	29000.3	34998.2	44053.4	52912.7	59562.9	64467.0
-7.5°	8669.1	11125.5	13730.5	17166.7	21673.2	26129.9	31346.8	38563.4	46832.2	52847.4	56402.1
-10°	7659.6	9693.4	12133.0	15036.9	18756.2	22759.2	27091.6	32872.6	39938.1	45213.3	48585.6
-12.5°	6774.7	8536.8	10713.2	12860.9	15895.5	19460.6	23307.7	28038.4	32700.6	38263.3	41178.8
-15°	5959.6	7428.4	9298.5	11357.7	13879.5	16681.5	19438.0	22980.1	26016.1	29490.9	32015.4
-17.5°	5277.7	6450.6	8107.6	10103.3	12002.1	14414.9	17045.4	19444.8	22011.6	24520.0	26613.5
-20°	4661.3	5629.1	7042.0	8799.1	10669.9	12721.6	15042.8	16995.9	19093.4	20999.4	22636.9



REPORT NUMBER: P731348 (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°
-22.5°	3960.9	4942.3	6036.5	7539.8	9413.4	11252.8	12971.7	14447.7	16032.7	17572.9	18735.6
-25°	3231.9	4173.8	5221.4	6640.2	8175.0	9722.7	10940.1	11979.3	13216.4	14326.3	15324.0
-27.5°	2478.1	3482.3	4612.3	5797.3	7132.3	8115.9	9140.3	10080.1	11020.4	11767.1	12609.7
-30°	1722.9	2818.6	3929.9	5051.5	5965.9	6751.0	7515.1	8377.0	9227.7	9937.4	10532.2
-32.5°	1183.1	1973.5	3094.9	4137.9	4919.5	5586.8	6176.9	6911.9	7571.2	8155.3	8675.7
-35°	710.6	1267.4	2037.4	3028.7	3883.9	4533.1	5134.2	5691.4	6183.5	6675.5	7067.0
-37.5°	608.8	732.1	1199.2	1858.3	2672.2	3457.8	4075.4	4597.0	5055.5	5434.4	5766.5
-40°	548.2	621.1	723.2	948.1	1547.4	2147.4	2821.5	3416.0	3899.6	4255.5	4544.5
-42.5°	512.4	559.2	609.1	689.3	778.3	1063.1	1578.9	2071.5	2496.5	2890.7	3229.1
-45°	506.3	526.1	553.0	598.2	639.3	713.1	793.7	872.5	1206.8	1523.6	1783.6
-47.5°	468.4	508.7	533.4	553.7	575.2	610.1	644.2	680.7	741.5	798.5	847.5
-50°	413.0	456.5	493.8	530.2	549.3	563.5	577.6	595.7	619.4	641.1	661.0
-52.5°	345.1	387.0	428.8	467.6	498.0	525.9	551.0	562.7	571.6	579.7	586.1
-55°	284.9	317.9	350.8	386.3	421.4	454.7	483.5	502.6	519.7	534.9	547.8
-57.5°	228.0	253.7	280.5	309.4	337.4	364.3	390.0	413.4	434.2	452.3	467.5
-60°	176.7	194.0	216.4	239.3	261.1	281.7	302.5	321.4	338.5	353.6	365.4
-62.5°	132.6	147.0	164.0	180.1	194.4	209.8	229.2	245.5	258.8	269.6	279.1
-65°	95.2	107.2	120.9	134.5	147.7	160.9	174.5	187.6	200.1	210.1	217.1
-67.5°	67.6	76.1	85.7	94.1	104.1	115.6	127.9	139.2	149.4	156.5	160.8
-70°	49.8	54.8	61.8	69.8	78.2	85.8	93.7	101.4	109.1	114.6	118.7
-72.5°	36.4	41.3	46.4	51.6	57.2	62.9	68.6	74.3	80.1	83.7	86.2
-75°	22.0	24.9	29.4	33.7	37.9	41.9	45.6	49.1	52.3	54.0	55.1
-77.5°	15.8	17.9	20.1	22.3	24.6	26.9	29.3	31.6	33.9	34.9	35.7
-80°	12.1	13.2	14.5	15.8	17.1	18.5	19.9	21.4	22.8	23.0	23.1
-82.5°	8.6	9.4	10.3	11.1	11.9	12.7	13.5	14.2	14.9	15.1	15.2
-85°	6.2	6.7	7.2	7.8	8.4	9.0	9.6	10.2	10.8	10.8	10.9
-87.5°	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	7.7	7.7
-90°	4.4	4.1	3.9	3.6	3.3	3.0	2.8	2.5	2.2	1.9	1.7



REPORT NUMBER: P731348 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-CV5

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	8.0	7.7	7.7	7.7	7.7	7.7	8.0	8.2	8.5	8.8	8.0
87.5°	1.4	1.1	0.6	0.0	0.6	1.1	1.4	1.7	1.9	2.2	2.5
85°	1.7	1.1	1.1	1.1	1.1	1.1	1.7	2.2	2.7	3.2	3.5
82.5°	1.7	1.1	1.1	1.1	1.1	1.1	1.7	2.2	2.8	3.3	3.6
80°	1.7	1.1	1.1	1.1	1.1	1.1	1.7	2.2	2.8	3.3	3.6
77.5°	1.7	1.1	1.1	1.1	1.1	1.1	1.7	2.3	2.8	3.3	3.6
75°	2.5	2.2	1.7	1.1	1.7	2.2	2.5	2.7	3.0	3.4	3.6
72.5°	3.5	3.3	3.3	3.3	3.3	3.3	3.5	3.8	4.0	4.3	4.6
70°	3.9	3.4	3.3	3.3	3.3	3.4	3.9	4.5	4.9	5.4	5.9
67.5°	5.4	5.4	5.0	4.4	5.0	5.4	5.4	5.4	5.4	5.8	6.3
65°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.8	6.4
62.5°	4.5	4.4	4.4	4.4	4.4	4.4	4.5	4.6	4.7	5.2	6.0
60°	3.8	3.4	3.3	3.3	3.3	3.4	3.8	4.1	4.4	4.7	5.3
57.5°	3.7	3.4	3.3	3.3	3.3	3.4	3.7	4.0	4.4	4.7	5.0
55°	3.8	3.4	3.3	3.3	3.3	3.4	3.8	4.1	4.4	4.7	5.1
52.5°	3.8	3.4	3.7	4.4	3.7	3.4	3.8	4.1	4.5	4.8	5.1
50°	4.7	4.5	4.4	4.4	4.4	4.5	4.7	5.0	5.2	5.4	5.4
47.5°	6.3	5.8	5.5	5.5	5.5	5.8	6.3	6.7	7.0	7.2	7.4
45°	9.0	8.2	7.7	7.7	7.7	8.2	9.0	9.6	9.6	9.6	9.6
42.5°	13.5	13.2	13.1	13.2	13.1	13.2	13.5	13.6	14.5	13.5	11.8
40°	28.9	29.3	29.2	29.6	29.2	29.3	28.9	27.4	27.1	25.6	25.1
37.5°	54.4	52.6	49.8	50.4	49.8	52.6	54.4	54.2	52.4	46.1	47.6
35°	106.2	108.9	108.8	109.7	108.8	108.9	106.2	105.6	100.7	86.8	90.6
32.5°	245.7	258.7	259.0	264.3	259.0	258.7	245.7	227.0	201.3	177.8	162.4
30°	482.7	493.1	477.4	484.7	477.4	493.1	482.7	460.1	387.0	338.5	281.3
27.5°	910.6	948.9	948.6	932.1	948.6	948.9	910.6	856.3	751.8	652.3	506.9
25°	1599.4	1658.7	1647.8	1628.4	1647.8	1658.7	1599.4	1467.3	1310.3	1158.6	949.5
22.5°	2521.8	2619.7	2698.1	2647.1	2698.1	2619.7	2521.8	2343.7	2147.5	1887.3	1679.7
20°	4121.8	4149.8	4233.1	4203.1	4233.1	4149.8	4121.8	3699.5	3412.4	3089.6	2721.5
17.5°	8466.8	8770.6	8559.2	7916.1	8559.2	8770.6	8466.8	7331.1	6912.0	6135.8	5075.7
15°	17146.3	18419.4	19408.0	18865.3	19408.0	18419.4	17146.3	15820.4	13932.6	12139.6	10117.0
12.5°	28079.3	29018.7	29647.2	29693.3	29647.2	29018.7	28079.3	26118.7	22773.3	19929.6	16662.2
10°	40302.6	41132.6	42244.6	42400.8	42244.6	41132.6	40302.6	37600.8	33616.5	29008.5	24209.0
7.5°	50593.0	52276.3	53055.6	52950.9	53055.6	52276.3	50593.0	48349.2	43828.0	38568.9	32221.2
5°	59796.0	61539.9	62303.7	62430.7	62303.7	61539.9	59796.0	57039.3	52374.5	46419.3	38921.7
2.5°	67606.5	69367.1	70284.8	70033.1	70284.8	69367.1	67606.5	64526.2	59383.7	52959.3	44025.4
0°	70133.4	71520.1	72289.3	72078.2	72289.3	71520.1	70133.4	67662.4	62917.0	56498.2	47150.0
-2.5°	68527.1	69362.6	69942.4	69718.4	69942.4	69362.6	68527.1	66381.2	62119.1	55597.8	46361.7
-5°	66746.9	67738.3	67955.2	68220.5	67955.2	67738.3	66746.9	64467.0	59562.9	52912.7	44053.4
-7.5°	57754.3	58814.8	59165.1	59695.8	59165.1	58814.8	57754.3	56402.1	52847.4	46832.2	38563.4
-10°	50420.6	51610.0	51667.4	51994.7	51667.4	51610.0	50420.6	48585.6	45213.3	39938.1	32872.6
-12.5°	44277.6	45914.5	46457.6	46327.6	46457.6	45914.5	44277.6	41178.8	38263.3	32700.6	28038.4
-15°	35376.5	36774.8	36874.5	36939.9	36874.5	36774.8	35376.5	32015.4	29490.9	26016.1	22980.1
-17.5°	28835.0	30193.8	30717.6	30880.3	30717.6	30193.8	28835.0	26613.5	24520.0	22011.6	19444.8
-20°	24042.5	25054.1	25693.9	25959.0	25693.9	25054.1	24042.5	22636.9	20999.4	19093.4	16995.9



REPORT NUMBER: P731348 (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°	19751.9	20393.1	20627.0	20685.6	20627.0	20393.1	19751.9	18735.6	17572.9	16032.7	14447.7
-25°	16024.9	16534.3	16830.4	16954.0	16830.4	16534.3	16024.9	15324.0	14326.3	13216.4	11979.3
-27.5°	13156.3	13609.5	13894.6	13938.4	13894.6	13609.5	13156.3	12609.7	11767.1	11020.4	10080.1
-30°	10987.5	11385.6	11651.9	11724.5	11651.9	11385.6	10987.5	10532.2	9937.4	9227.7	8377.0
-32.5°	9104.3	9445.0	9653.9	9744.1	9653.9	9445.0	9104.3	8675.7	8155.3	7571.2	6911.9
-35°	7359.2	7588.2	7722.0	7678.1	7722.0	7588.2	7359.2	7067.0	6675.5	6183.5	5691.4
-37.5°	6032.9	6217.2	6317.4	6322.8	6317.4	6217.2	6032.9	5766.5	5434.4	5055.5	4597.0
-40°	4783.9	4971.1	5083.8	5090.2	5083.8	4971.1	4783.9	4544.5	4255.5	3899.6	3416.0
-42.5°	3498.2	3689.9	3820.8	3906.0	3820.8	3689.9	3498.2	3229.1	2890.7	2496.5	2071.5
-45°	2000.5	2166.0	2292.3	2383.9	2292.3	2166.0	2000.5	1783.6	1523.6	1206.8	872.5
-47.5°	884.1	911.0	922.7	918.9	922.7	911.0	884.1	847.5	798.5	741.5	680.7
-50°	679.3	695.1	703.1	702.9	703.1	695.1	679.3	661.0	641.1	619.4	595.7
-52.5°	591.2	595.2	597.6	598.7	597.6	595.2	591.2	586.1	579.7	571.6	562.7
-55°	558.5	566.9	570.0	569.1	570.0	566.9	558.5	547.8	534.9	519.7	502.6
-57.5°	480.3	490.7	497.6	501.1	497.6	490.7	480.3	467.5	452.3	434.2	413.4
-60°	374.3	380.4	384.3	386.0	384.3	380.4	374.3	365.4	353.6	338.5	321.4
-62.5°	287.5	294.5	298.0	299.4	298.0	294.5	287.5	279.1	269.6	258.8	245.5
-65°	223.3	228.4	231.2	232.5	231.2	228.4	223.3	217.1	210.1	200.1	187.6
-67.5°	164.0	166.3	167.4	167.8	167.4	166.3	164.0	160.8	156.5	149.4	139.2
-70°	122.4	125.8	127.9	129.4	127.9	125.8	122.4	118.7	114.6	109.1	101.4
-72.5°	88.3	90.0	91.3	92.1	91.3	90.0	88.3	86.2	83.7	80.1	74.3
-75°	55.9	56.5	56.9	57.0	56.9	56.5	55.9	55.1	54.0	52.3	49.1
-77.5°	36.4	37.0	37.8	38.4	37.8	37.0	36.4	35.7	34.9	33.9	31.6
-80°	23.0	22.9	23.0	23.0	23.0	22.9	23.0	23.1	23.0	22.8	21.4
-82.5°	15.3	15.3	15.4	15.4	15.4	15.3	15.3	15.2	15.1	14.9	14.2
-85°	10.9	11.0	11.0	11.0	11.0	11.0	10.9	10.9	10.8	10.8	10.2
-87.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.4
-90°	1.4	1.1	0.5	0.0	0.5	1.1	1.4	1.7	1.9	2.2	2.5



REPORT NUMBER: P731348 (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°
90°	7.1	6.3	5.5	5.2	5.0	4.7	4.4	4.4	4.4	4.4	4.4
87.5°	2.8	3.0	3.3	3.6	3.9	4.1	4.4	4.4	4.4	4.4	4.4
85°	3.7	4.0	4.2	4.2	4.3	4.3	4.4	4.4	4.4	4.4	4.4
82.5°	3.9	4.1	4.4	4.4	4.4	4.4	4.4	4.5	4.6	4.6	4.5
80°	3.9	4.2	4.4	4.4	4.4	4.4	4.4	4.7	5.0	5.2	5.3
77.5°	3.9	4.2	4.4	4.5	4.6	4.6	4.6	4.7	5.0	5.3	5.5
75°	3.9	4.2	4.5	4.9	5.2	5.4	5.5	5.6	5.7	5.8	5.7
72.5°	4.9	5.2	5.4	5.7	5.9	6.2	6.4	6.5	6.6	6.6	6.4
70°	6.3	6.7	7.4	8.0	8.5	8.7	8.5	8.0	7.6	7.4	7.1
67.5°	6.9	7.5	8.7	10.0	10.9	11.5	11.4	10.8	10.1	9.5	8.2
65°	7.0	7.6	9.2	10.8	12.3	13.7	15.0	15.1	14.5	12.8	10.0
62.5°	6.8	7.6	8.7	10.1	11.9	14.7	18.2	19.7	19.9	17.5	13.4
60°	5.9	6.7	7.7	8.7	10.0	14.0	19.6	23.7	26.3	22.2	16.7
57.5°	5.3	5.7	6.5	7.4	8.5	13.3	19.6	26.6	31.1	25.1	19.6
55°	5.4	5.7	6.0	6.3	7.0	11.8	17.8	24.8	29.1	25.9	19.7
52.5°	5.5	5.8	6.1	6.4	7.4	10.4	14.5	21.1	23.5	21.1	17.8
50°	5.5	5.9	6.2	6.5	7.6	9.5	12.7	17.1	17.4	16.5	13.9
47.5°	7.3	7.0	6.5	6.7	7.5	8.7	11.0	13.0	13.6	12.7	10.9
45°	9.6	9.2	8.5	8.2	7.8	8.4	9.6	11.0	11.5	11.0	9.1
42.5°	13.4	12.7	11.3	11.3	10.3	9.6	9.6	10.6	10.7	10.4	10.2
40°	24.6	21.0	20.7	18.4	16.0	13.0	12.6	12.1	11.9	10.7	12.6
37.5°	46.5	41.3	41.0	38.1	31.0	21.7	18.5	16.4	14.7	15.6	17.1
35°	82.5	75.5	71.8	66.8	58.1	42.9	28.3	23.0	20.9	22.1	23.3
32.5°	147.7	138.4	113.4	104.1	105.1	77.5	50.8	33.3	31.6	31.0	30.1
30°	240.3	240.0	204.4	178.0	189.6	157.7	85.4	62.1	47.5	42.0	38.1
27.5°	454.7	398.8	353.7	333.8	315.1	273.4	192.4	106.5	71.3	57.2	50.6
25°	826.2	657.3	615.5	552.5	483.1	438.4	326.6	203.7	119.8	77.5	75.0
22.5°	1411.1	1230.6	1042.0	829.8	767.0	674.5	526.6	318.4	194.0	145.3	113.1
20°	2443.9	2117.5	1716.7	1583.5	1316.7	976.7	777.1	602.1	436.7	263.4	162.9
17.5°	4721.6	3783.1	3264.9	2983.9	2288.8	1578.5	1466.4	1216.3	782.8	412.4	222.4
15°	8295.1	7405.5	6390.0	5104.4	3945.7	3197.5	2655.1	2005.2	1260.9	663.8	357.4
12.5°	14058.5	12089.9	10252.0	7935.9	6518.3	5259.2	4198.5	3065.9	1936.8	1108.5	593.2
10°	20085.0	17249.6	14411.9	11486.3	9277.4	7537.0	5744.7	4032.1	2657.1	1634.5	863.0
7.5°	26766.8	22803.8	18850.2	14865.2	11811.5	9452.9	7023.2	4869.1	3322.4	2179.1	1153.3
5°	32120.5	27161.1	22345.8	17655.8	14134.0	11367.2	8324.4	5628.0	3929.3	2719.6	1447.6
2.5°	35676.0	30030.7	25319.4	20096.6	16169.5	12967.2	9519.2	6376.1	4377.2	3030.7	1569.0
0°	38196.6	32146.9	26953.5	21089.1	17137.1	13715.8	10484.2	7105.7	4720.7	3244.7	1656.9
-2.5°	37552.5	31427.9	26646.7	20759.2	16744.0	13545.1	10276.5	7474.2	5128.6	3428.1	1686.1
-5°	34998.2	29000.3	24341.4	19164.1	15393.1	12521.0	9628.0	7328.6	5222.9	3458.3	1673.2
-7.5°	31346.8	26129.9	21673.2	17166.7	13730.5	11125.5	8669.1	6646.1	4790.4	3130.4	1551.0
-10°	27091.6	22759.2	18756.2	15036.9	12133.0	9693.4	7659.6	5920.5	4302.2	2751.0	1389.9
-12.5°	23307.7	19460.6	15895.5	12860.9	10713.2	8536.8	6774.7	5226.1	3773.1	2335.0	1191.7
-15°	19438.0	16681.5	13879.5	11357.7	9298.5	7428.4	5959.6	4668.4	3298.4	1901.5	957.6
-17.5°	17045.4	14414.9	12002.1	10103.3	8107.6	6450.6	5277.7	4107.0	2790.0	1513.7	723.4
-20°	15042.8	12721.6	10669.9	8799.1	7042.0	5629.1	4661.3	3497.5	2223.3	1196.9	652.2



REPORT NUMBER: P731348 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-CV5

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	12971.7	11252.8	9413.4	7539.8	6036.5	4942.3	3960.9	2839.2	1603.0	853.5	576.9
-25°	10940.1	9722.7	8175.0	6640.2	5221.4	4173.8	3231.9	2144.8	1209.6	645.2	504.6
-27.5°	9140.3	8115.9	7132.3	5797.3	4612.3	3482.3	2478.1	1492.0	801.5	567.1	468.4
-30°	7515.1	6751.0	5965.9	5051.5	3929.9	2818.6	1722.9	1023.4	628.3	500.0	440.4
-32.5°	6176.9	5586.8	4919.5	4137.9	3094.9	1973.5	1183.1	668.6	535.9	469.5	430.9
-35°	5134.2	4533.1	3883.9	3028.7	2037.4	1267.4	710.6	575.7	490.7	444.9	426.7
-37.5°	4075.4	3457.8	2672.2	1858.3	1199.2	732.1	608.8	521.7	461.0	440.0	409.8
-40°	2821.5	2147.4	1547.4	948.1	723.2	621.1	548.2	487.7	460.7	425.7	385.5
-42.5°	1578.9	1063.1	778.3	689.3	609.1	559.2	512.4	485.0	448.5	401.3	349.5
-45°	793.7	713.1	639.3	598.2	553.0	526.1	506.3	464.7	417.4	363.1	309.0
-47.5°	644.2	610.1	575.2	553.7	533.4	508.7	468.4	425.3	369.9	317.4	271.7
-50°	577.6	563.5	549.3	530.2	493.8	456.5	413.0	366.3	318.1	274.6	233.5
-52.5°	551.0	525.9	498.0	467.6	428.8	387.0	345.1	308.4	269.3	232.2	196.7
-55°	483.5	454.7	421.4	386.3	350.8	317.9	284.9	253.7	223.8	190.8	162.3
-57.5°	390.0	364.3	337.4	309.4	280.5	253.7	228.0	202.5	180.4	154.6	129.1
-60°	302.5	281.7	261.1	239.3	216.4	194.0	176.7	158.5	139.6	119.8	99.1
-62.5°	229.2	209.8	194.4	180.1	164.0	147.0	132.6	118.7	103.4	86.8	73.6
-65°	174.5	160.9	147.7	134.5	120.9	107.2	95.2	84.4	74.3	63.5	52.5
-67.5°	127.9	115.6	104.1	94.1	85.7	76.1	67.6	58.9	52.6	47.1	40.8
-70°	93.7	85.8	78.2	69.8	61.8	54.8	49.8	45.3	40.3	35.1	29.6
-72.5°	68.6	62.9	57.2	51.6	46.4	41.3	36.4	31.8	27.4	23.1	19.3
-75°	45.6	41.9	37.9	33.7	29.4	24.9	22.0	20.2	18.2	16.0	13.6
-77.5°	29.3	26.9	24.6	22.3	20.1	17.9	15.8	14.2	12.8	11.6	10.4
-80°	19.9	18.5	17.1	15.8	14.5	13.2	12.1	11.0	10.0	9.1	8.4
-82.5°	13.5	12.7	11.9	11.1	10.3	9.4	8.6	8.0	7.6	7.2	6.9
-85°	9.6	9.0	8.4	7.8	7.2	6.7	6.2	6.1	6.1	6.0	6.0
-87.5°	7.1	6.8	6.5	6.2	5.9	5.6	5.3	5.3	5.2	5.2	5.2
-90°	2.8	3.0	3.3	3.6	3.9	4.1	4.4	4.4	4.4	4.4	4.4



REPORT NUMBER: P731348 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.5	4.6	4.6
85°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.6	4.8	4.9
82.5°	4.4	4.4	4.4	4.4	4.6	4.7	4.7	4.7	4.8	5.0	5.2
80°	5.2	5.0	4.9	4.7	4.8	5.0	5.1	5.2	5.1	5.2	5.3
77.5°	5.5	5.5	5.5	5.3	5.3	5.3	5.3	5.5	5.4	5.3	5.4
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
72.5°	6.0	5.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
70°	6.5	5.9	5.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
67.5°	7.2	6.6	6.0	5.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5
65°	8.5	7.3	6.5	6.0	5.6	5.5	5.5	5.5	5.5	5.5	5.5
62.5°	10.3	8.1	7.1	6.4	5.9	5.6	5.5	5.5	5.5	5.5	5.5
60°	12.5	9.4	7.7	6.9	6.2	5.6	5.5	5.5	5.5	5.5	5.5
57.5°	14.3	10.3	8.9	7.6	6.6	5.9	5.5	5.5	5.5	5.5	5.5
55°	15.0	11.2	9.9	8.6	7.3	6.3	5.7	5.5	5.5	5.5	5.5
52.5°	13.3	11.6	10.8	9.5	8.2	6.8	6.1	5.5	5.5	5.5	5.5
50°	10.5	11.0	11.0	10.1	9.0	7.6	6.5	5.8	5.5	5.5	5.6
47.5°	9.3	10.3	10.5	10.4	9.4	8.4	7.1	6.2	5.5	5.5	5.6
45°	9.5	9.9	10.3	10.1	9.7	8.8	7.6	6.6	5.8	5.6	5.7
42.5°	10.5	10.6	10.4	9.9	9.8	9.1	8.1	7.0	6.1	5.7	5.9
40°	12.7	12.0	11.1	10.9	10.0	9.4	8.4	7.3	6.4	6.0	6.0
37.5°	15.5	14.4	12.8	13.1	10.9	9.7	8.6	7.6	6.9	6.4	6.2
35°	21.4	17.5	16.6	16.5	13.8	10.2	8.9	7.8	7.4	6.8	6.4
32.5°	29.0	23.6	22.1	20.5	17.7	10.7	9.2	8.5	7.9	7.1	6.6
30°	37.2	34.3	28.4	25.0	22.1	14.2	10.2	9.3	8.4	7.5	6.9
27.5°	50.1	46.3	36.2	30.8	26.3	18.9	12.2	10.3	9.0	7.9	7.2
25°	67.5	59.6	47.6	37.4	30.9	29.9	14.8	11.4	9.7	8.4	7.5
22.5°	91.9	75.2	59.7	44.6	49.0	44.0	20.7	13.4	10.5	8.8	7.8
20°	120.1	92.9	78.5	74.8	71.6	59.5	31.1	15.6	11.4	9.3	8.1
17.5°	154.1	136.5	130.7	112.8	96.9	77.4	43.1	18.0	12.4	9.8	8.3
15°	250.8	213.8	188.4	155.4	124.2	97.1	56.4	20.6	13.4	10.3	8.5
12.5°	365.2	295.7	250.4	201.5	153.1	118.2	70.4	23.3	14.3	10.7	8.6
10°	483.9	381.0	315.3	250.0	182.9	140.2	84.8	26.3	15.6	11.0	8.7
7.5°	604.4	468.1	381.9	299.7	212.6	161.8	100.5	29.8	17.0	11.3	8.7
5°	713.8	543.6	436.5	339.6	239.0	181.9	115.9	33.2	18.3	11.6	8.8
2.5°	774.0	598.9	481.3	375.8	264.4	200.8	130.1	36.5	19.6	11.9	8.8
0°	826.8	650.3	523.1	409.0	288.4	218.2	142.6	39.5	20.8	12.1	8.8
-2.5°	827.1	642.1	521.4	419.1	300.3	224.8	148.0	48.2	26.2	15.0	9.8
-5°	819.1	629.9	517.2	425.7	309.8	229.5	151.3	56.4	31.3	17.8	10.8
-7.5°	782.4	605.9	506.7	427.1	316.5	232.2	152.7	63.8	35.9	20.4	11.7
-10°	733.5	573.8	487.4	413.8	313.8	231.5	152.3	70.2	40.1	22.6	12.4
-12.5°	677.2	540.1	468.6	399.1	307.6	227.8	149.5	75.2	43.6	24.5	13.0
-15°	613.9	505.5	451.2	383.9	299.4	222.6	145.6	78.8	46.5	26.0	13.4
-17.5°	546.1	470.5	435.9	368.6	289.3	216.0	140.8	81.3	48.7	27.3	14.0
-20°	510.2	447.6	421.9	353.9	277.3	208.1	135.2	82.4	49.9	28.1	14.8



REPORT NUMBER: P731348 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-CV5

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	478.6	435.6	401.5	338.4	264.8	199.2	129.1	82.2	50.3	28.4	15.3
-25°	446.3	424.2	381.2	318.1	252.7	189.6	125.4	80.6	49.6	28.0	15.6
-27.5°	428.3	410.0	361.1	296.2	236.2	180.2	122.9	79.6	48.3	27.1	15.5
-30°	416.8	387.5	336.6	273.8	218.4	165.8	118.6	77.3	47.1	26.5	15.2
-32.5°	408.2	366.1	309.6	252.9	200.5	150.3	109.8	73.5	45.0	26.0	15.1
-35°	389.2	339.7	281.6	230.6	182.1	137.6	99.3	68.3	42.1	25.2	14.8
-37.5°	367.5	309.7	256.2	208.3	163.0	124.0	89.7	61.2	38.2	23.9	14.2
-40°	333.1	279.5	230.5	186.6	146.1	109.5	79.1	54.5	35.6	22.3	13.2
-42.5°	297.2	249.9	205.6	164.2	129.4	96.8	68.0	47.3	32.4	20.6	11.9
-45°	263.5	219.9	180.0	144.7	112.2	83.1	59.5	40.2	28.7	18.7	10.7
-47.5°	228.9	190.7	155.6	124.0	96.1	69.8	50.5	35.6	24.7	16.2	10.1
-50°	195.9	162.1	131.7	104.4	78.7	59.3	42.0	30.6	21.1	13.1	9.3
-52.5°	164.3	134.9	108.9	84.7	65.2	48.3	35.9	25.4	17.4	11.4	8.5
-55°	134.1	109.4	86.8	68.2	52.2	40.0	29.3	20.9	13.4	10.2	7.6
-57.5°	106.6	84.9	68.4	53.3	41.8	32.1	23.4	16.2	11.5	9.0	7.4
-60°	80.4	65.8	51.6	41.9	33.0	24.9	17.9	12.3	10.0	7.9	7.1
-62.5°	60.4	48.5	40.3	32.3	25.1	18.6	12.8	10.7	8.6	7.6	6.9
-65°	45.3	37.8	30.1	24.0	18.0	13.2	11.0	9.1	8.0	7.3	6.7
-67.5°	34.1	27.8	21.5	16.0	13.0	10.9	9.1	8.3	7.7	7.0	6.7
-70°	24.0	18.4	14.5	12.1	10.1	8.7	8.4	7.9	7.3	6.9	6.7
-72.5°	16.3	13.4	10.7	8.8	8.5	8.2	7.9	7.5	7.1	6.8	6.6
-75°	11.2	9.8	8.8	8.2	7.9	7.7	7.4	7.1	6.8	6.6	6.4
-77.5°	9.4	8.6	7.9	7.5	7.3	7.1	6.9	6.7	6.5	6.3	6.0
-80°	7.9	7.5	7.2	6.9	6.8	6.6	6.4	6.3	6.1	5.9	5.7
-82.5°	6.6	6.5	6.4	6.3	6.2	6.0	5.9	5.8	5.7	5.5	5.4
-85°	5.9	5.8	5.7	5.7	5.6	5.5	5.4	5.3	5.2	5.2	5.1
-87.5°	5.1	5.1	5.1	5.0	5.0	4.9	4.9	4.9	4.8	4.8	4.7
-90°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4



REPORT NUMBER: P731348 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-CV5

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
87.5°	4.7	4.6	4.6	4.5	4.5	4.4	4.4
85°	5.0	4.9	4.8	4.7	4.6	4.4	4.4
82.5°	5.3	5.1	5.0	4.8	4.7	4.5	4.4
80°	5.5	5.3	5.2	5.0	4.8	4.5	4.4
77.5°	5.5	5.5	5.3	5.1	4.9	4.5	4.4
75°	5.5	5.5	5.5	5.3	4.9	4.5	4.4
72.5°	5.5	5.5	5.5	5.4	5.0	4.6	4.4
70°	5.5	5.5	5.5	5.5	5.1	4.6	4.4
67.5°	5.5	5.5	5.5	5.5	5.2	4.6	4.4
65°	5.5	5.5	5.5	5.5	5.2	4.6	4.4
62.5°	5.5	5.5	5.5	5.5	5.3	4.6	4.4
60°	5.5	5.5	5.5	5.5	5.4	4.6	4.4
57.5°	5.5	5.5	5.5	5.5	5.3	4.6	4.4
55°	5.5	5.5	5.5	5.5	5.3	4.7	4.4
52.5°	5.5	5.5	5.5	5.5	5.3	4.7	4.4
50°	5.5	5.5	5.5	5.5	5.3	4.7	4.4
47.5°	5.5	5.5	5.5	5.5	5.3	4.7	4.4
45°	5.6	5.5	5.5	5.5	5.3	4.7	4.4
42.5°	5.7	5.5	5.5	5.5	5.3	4.7	4.4
40°	5.8	5.5	5.5	5.5	5.3	4.7	4.4
37.5°	6.0	5.5	5.5	5.5	5.3	4.7	4.4
35°	6.1	5.6	5.5	5.5	5.3	4.7	4.4
32.5°	6.3	5.7	5.5	5.5	5.3	4.6	4.4
30°	6.5	5.8	5.5	5.5	5.4	4.6	4.4
27.5°	6.6	5.9	5.5	5.5	5.4	4.6	4.4
25°	6.8	6.1	5.5	5.5	5.4	4.6	4.4
22.5°	7.0	6.2	5.5	5.5	5.4	4.6	4.4
20°	7.3	6.3	5.5	5.5	5.4	4.6	4.4
17.5°	7.4	6.3	5.5	5.5	5.4	4.6	4.4
15°	7.5	6.4	5.5	5.5	5.4	4.5	4.4
12.5°	7.5	6.5	5.5	5.5	5.5	4.5	4.4
10°	7.6	6.5	5.5	5.5	5.5	4.5	4.4
7.5°	7.6	6.6	5.5	5.5	5.5	4.5	4.4
5°	7.7	6.6	5.5	5.5	5.5	4.4	4.4
2.5°	7.7	6.6	5.5	5.5	5.5	4.4	4.4
0°	7.7	6.6	5.5	5.5	5.5	4.4	4.4
-2.5°	7.8	6.7	5.6	5.5	5.5	4.4	4.4
-5°	8.0	6.8	5.7	5.5	5.5	4.4	4.4
-7.5°	8.1	6.9	5.8	5.5	5.5	4.5	4.4
-10°	8.2	7.0	5.9	5.5	5.5	4.5	4.4
-12.5°	8.3	7.1	5.9	5.5	5.5	4.5	4.4
-15°	8.3	7.1	6.0	5.5	5.4	4.5	4.4
-17.5°	8.4	7.2	6.0	5.5	5.4	4.6	4.4
-20°	8.7	7.2	6.1	5.5	5.4	4.6	4.4



REPORT NUMBER: P731348 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-5S-CV5

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	9.2	7.2	6.1	5.5	5.4	4.6	4.4
-25°	9.5	7.3	6.1	5.5	5.4	4.6	4.4
-27.5°	9.6	7.3	6.1	5.5	5.4	4.6	4.4
-30°	9.6	7.2	6.0	5.5	5.4	4.6	4.4
-32.5°	9.3	7.1	6.0	5.5	5.3	4.6	4.4
-35°	9.1	7.0	5.9	5.5	5.3	4.7	4.4
-37.5°	8.9	6.8	5.8	5.5	5.3	4.7	4.4
-40°	8.7	6.7	5.7	5.5	5.3	4.7	4.4
-42.5°	8.3	6.6	5.7	5.5	5.3	4.7	4.4
-45°	7.9	6.5	5.7	5.5	5.3	4.7	4.4
-47.5°	7.4	6.4	5.8	5.6	5.3	4.7	4.4
-50°	7.1	6.2	5.8	5.6	5.3	4.7	4.4
-52.5°	7.0	6.1	5.8	5.6	5.3	4.7	4.4
-55°	6.8	6.1	5.9	5.6	5.3	4.7	4.4
-57.5°	6.6	6.1	5.9	5.6	5.3	4.6	4.4
-60°	6.4	6.1	5.9	5.6	5.4	4.6	4.4
-62.5°	6.4	6.2	5.9	5.6	5.3	4.6	4.4
-65°	6.5	6.2	5.8	5.6	5.2	4.6	4.4
-67.5°	6.5	6.2	5.7	5.5	5.2	4.6	4.4
-70°	6.5	6.0	5.7	5.5	5.1	4.6	4.4
-72.5°	6.3	5.9	5.6	5.4	5.0	4.6	4.4
-75°	6.1	5.7	5.5	5.3	4.9	4.5	4.4
-77.5°	5.8	5.6	5.3	5.1	4.9	4.5	4.4
-80°	5.5	5.3	5.2	5.0	4.8	4.5	4.4
-82.5°	5.3	5.1	5.0	4.8	4.7	4.5	4.4
-85°	5.0	4.9	4.8	4.7	4.6	4.4	4.4
-87.5°	4.7	4.6	4.6	4.5	4.5	4.4	4.4
-90°	4.4	4.4	4.4	4.4	4.4	4.4	4.4

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

