

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: P701352 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-80-4S-CV2-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701352 (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: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-80-4S-CV2-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

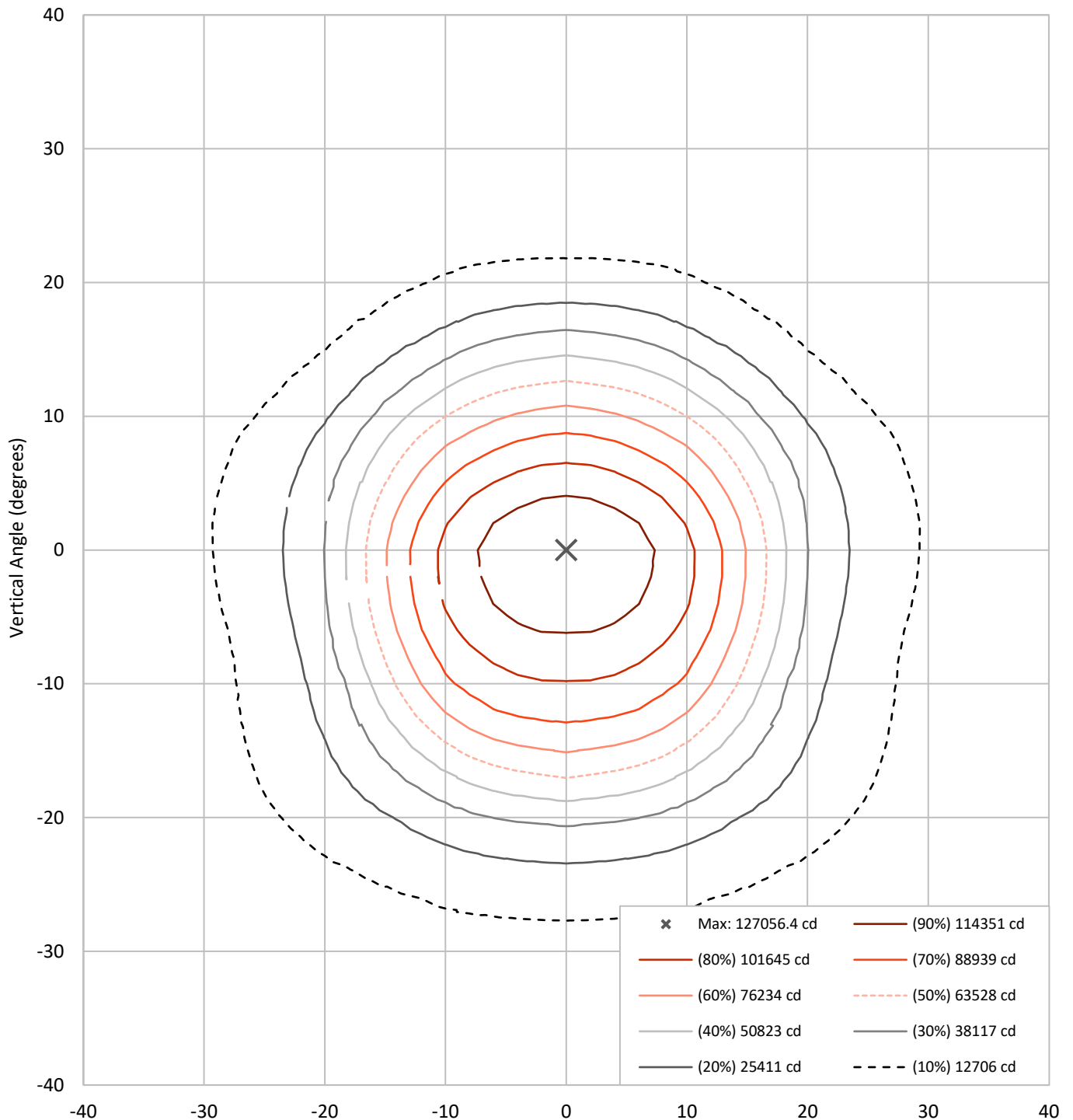
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	40663.8 lumens	Max Intensity:	127056.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	118.1 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:	22313.5 lumens	Field Lumens:	35751.1 lumens
Beam Efficiency:	54.9%	Field Efficiency:	87.9%

Input Watts (W): 344.2
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





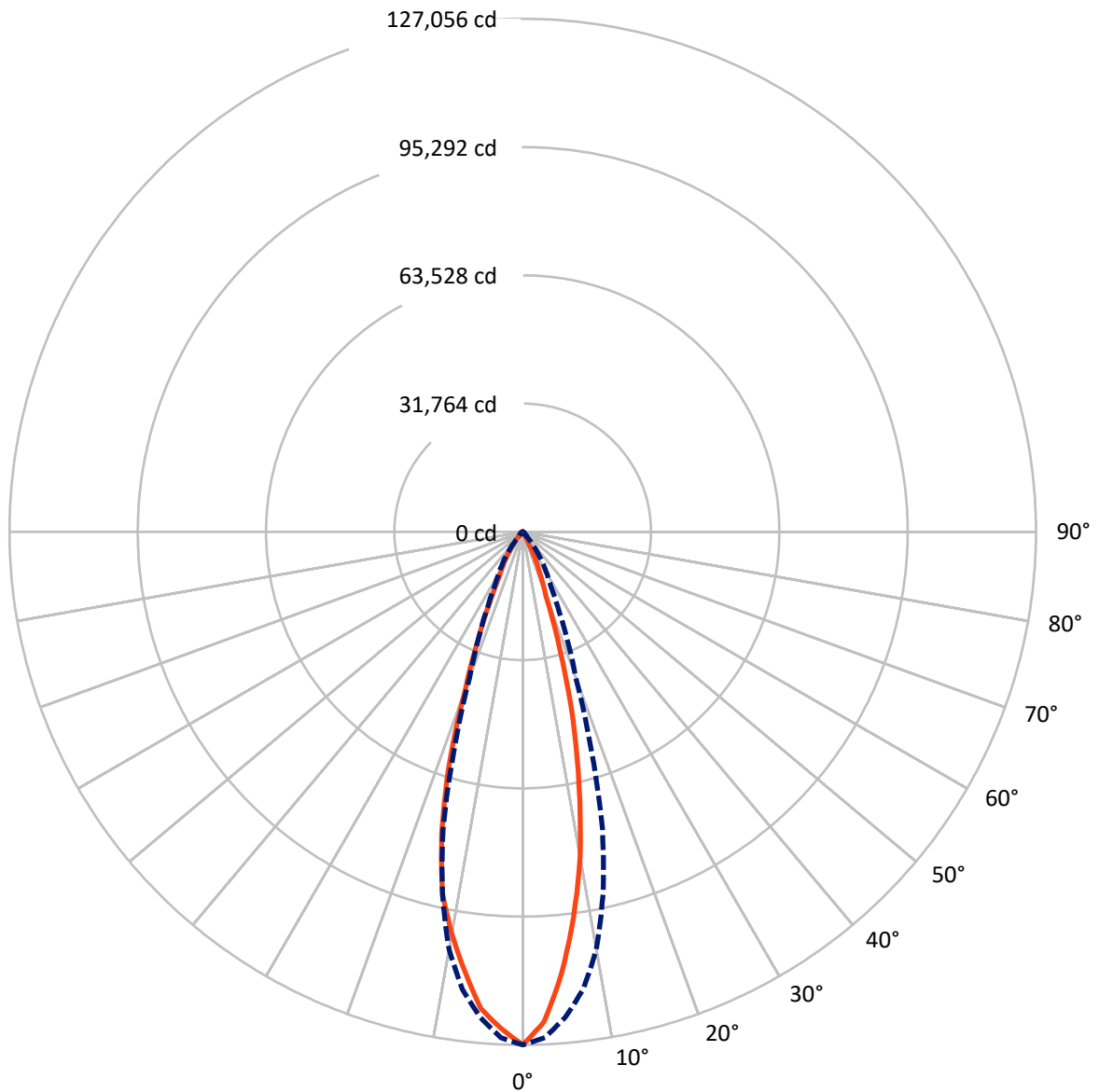
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Lumen Table

90	0.1		0.3		0.3		0.3		0.3		0.3		0.3		0.1	
80	0.1		0.3		0.3		0.3		0.3		0.3		0.3		0.1	
70	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1
60		0.1	0.2	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.1	
50	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.8	0.7	0.5	0.4	0.3	0.2	0.1	0.1
40		0.1	0.5	1.0	1.7	3.8	7.7	10.6	10.6	7.7	3.8	1.7	1.0	0.5	0.1	
30	0.1	0.2	1.5	4.0	14.9	54.2	128.4	217.2	217.2	128.4	54.2	14.9	4.0	1.5	0.2	0.1
20		0.5	3.3	10.7	65.8	227.9	699.4	1321.5	1321.5	699.4	227.9	65.8	10.7	3.3	0.5	
10	0.2	0.9	5.7	20.2	153.3	546.1	1811.6	3061.0	3061.0	1811.6	546.1	153.3	20.2	5.7	0.9	0.2
0		1.5	7.6	24.0	159.8	563.2	2033.3	3360.6	3360.6	2033.3	563.2	159.8	24.0	7.6	1.5	
-10	0.3	1.8	7.7	20.6	124.7	415.2	1214.3	2121.5	2121.5	1214.3	415.2	124.7	20.6	7.7	1.8	0.3
-20		1.7	6.6	14.2	53.9	197.0	410.1	613.8	613.8	410.1	197.0	53.9	14.2	6.6	1.7	
-30	0.2	1.3	5.0	9.8	18.5	53.2	120.8	170.7	170.7	120.8	53.2	18.5	9.8	5.0	1.3	0.2
-40		0.8	3.4	7.4	12.2	18.5	27.1	35.5	35.5	27.1	18.5	12.2	7.4	3.4	0.8	
-50	0.1	0.4	1.8	4.9	9.0	13.0	16.7	18.9	18.9	16.7	13.0	9.0	4.9	1.8	0.4	0.1
-60		0.2	0.7	2.0	4.4	7.5	10.8	12.7	12.7	10.8	7.5	4.4	2.0	0.7	0.2	
-70	0.1	0.4	1.8	4.9	9.0	13.0	16.7	18.9	18.9	16.7	13.0	9.0	4.9	1.8	0.4	0.1
-80		0.2	0.7	2.0	4.4	7.5	10.8	12.7	12.7	10.8	7.5	4.4	2.0	0.7	0.2	
-90	0.1		0.5		1.6		4.3		6.0		4.3		1.6		0.5	

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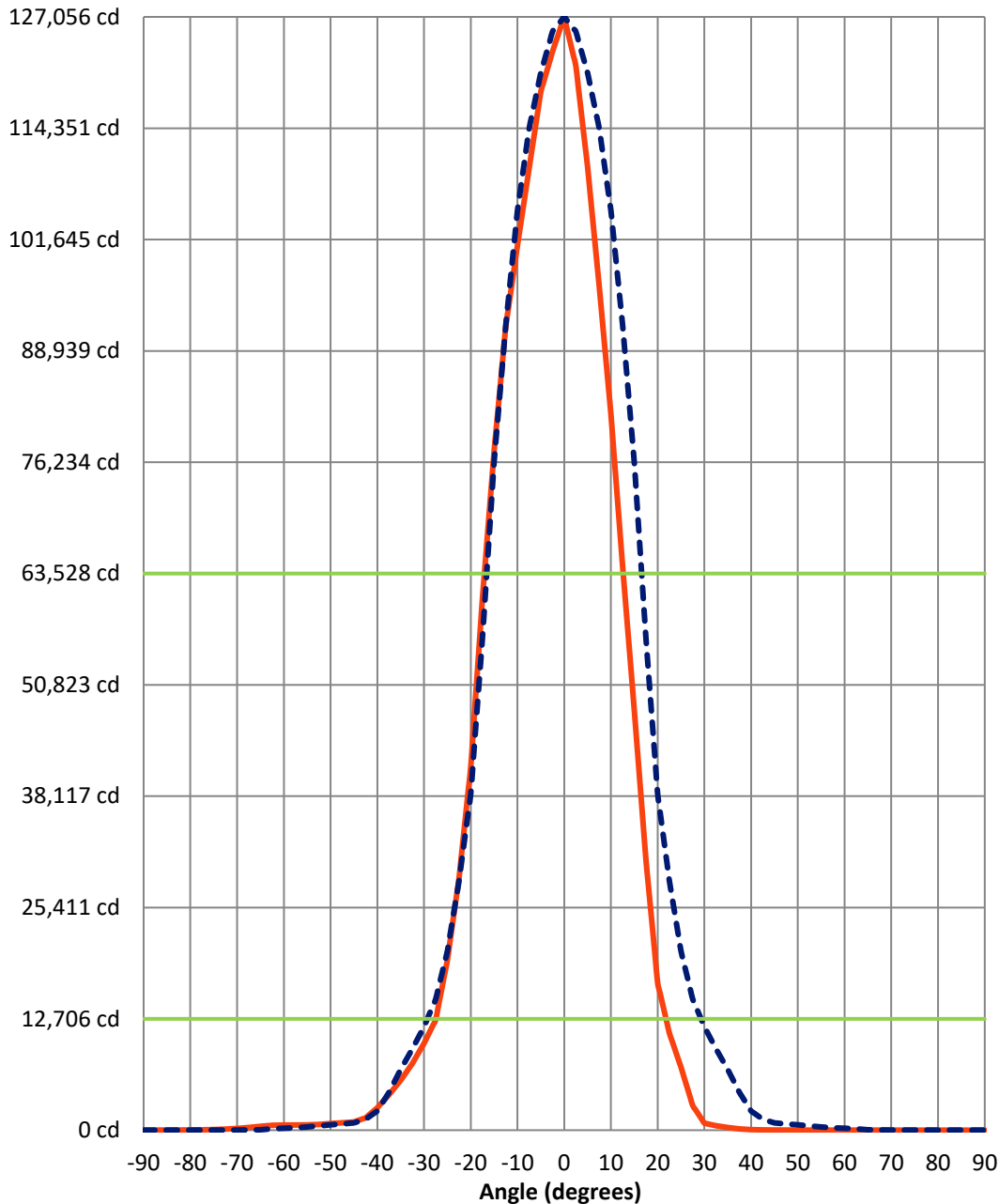
Luminous Intensity Polar Plot



— 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: 22313.5
 Efficiency: 54.9%

Field:
 H Angle: 58.6°
 V Angle: 49.3°
 Lumens: 35751.1
 Efficiency: 87.9%

Spill:
 Lumens: 4912.7
 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°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.7	4.7	4.7	4.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.6	4.8	4.9	4.9	4.8	4.6
75°	4.5	4.5	4.5	4.5	4.5	4.8	5.1	5.2	5.1	4.9	4.6
72.5°	4.5	4.5	4.5	4.5	4.7	5.0	5.4	5.4	5.1	4.9	4.6
70°	4.5	4.5	4.5	4.5	4.9	5.3	5.6	5.4	5.2	4.9	5.0
67.5°	4.5	4.5	4.5	4.7	5.1	5.5	5.6	5.5	5.2	5.2	5.3
65°	4.5	4.5	4.5	4.8	5.3	5.6	5.6	5.5	5.4	5.4	5.6
62.5°	4.5	4.5	4.5	4.9	5.4	5.6	5.6	5.5	5.5	5.6	5.6
60°	4.5	4.5	4.5	5.0	5.6	5.6	5.6	5.6	5.6	5.6	5.6
57.5°	4.5	4.5	4.6	5.2	5.6	5.6	5.6	5.6	5.6	5.6	5.6
55°	4.5	4.5	4.7	5.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6
52.5°	4.5	4.5	4.7	5.4	5.6	5.6	5.6	5.6	5.6	5.6	5.6
50°	4.5	4.5	4.8	5.5	5.6	5.6	5.6	5.6	5.6	5.6	6.1
47.5°	4.5	4.5	4.9	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.6
45°	4.5	4.5	5.0	5.6	5.6	5.6	5.6	5.6	5.6	5.9	7.0
42.5°	4.5	4.5	5.0	5.6	5.6	5.6	5.6	5.6	5.7	6.2	7.3
40°	4.5	4.5	5.1	5.6	5.6	5.6	5.6	5.7	5.9	6.5	7.5
37.5°	4.5	4.5	5.1	5.6	5.6	5.6	5.6	5.8	6.2	6.9	7.7
35°	4.5	4.5	5.2	5.6	5.6	5.6	5.6	6.0	6.5	7.2	7.9
32.5°	4.5	4.5	5.3	5.6	5.6	5.6	5.6	6.1	6.8	7.6	8.5
30°	4.5	4.5	5.3	5.6	5.6	5.6	5.7	6.3	7.1	7.9	9.2
27.5°	4.5	4.5	5.4	5.6	5.6	5.6	5.9	6.5	7.4	8.2	10.1
25°	4.5	4.5	5.4	5.6	5.6	5.6	6.0	6.8	7.6	8.8	11.2
22.5°	4.5	4.5	5.4	5.6	5.6	5.6	6.1	7.0	7.9	9.6	13.6
20°	4.5	4.5	5.5	5.6	5.6	5.7	6.3	7.2	8.2	10.5	15.9
17.5°	4.5	4.5	5.5	5.6	5.6	5.8	6.4	7.4	8.4	11.4	18.3
15°	4.5	4.5	5.5	5.6	5.6	5.9	6.5	7.6	8.6	12.3	20.7
12.5°	4.5	4.5	5.5	5.6	5.6	6.0	6.6	7.8	9.2	13.3	23.0
10°	4.5	4.5	5.6	5.6	5.6	6.2	6.6	8.1	10.2	15.5	26.3
7.5°	4.5	4.5	5.6	5.6	5.6	6.3	6.7	8.3	11.3	17.9	31.6
5°	4.5	4.5	5.6	5.6	5.6	6.4	6.7	8.6	12.4	20.2	37.0
2.5°	4.5	4.5	5.6	5.6	5.6	6.6	6.7	8.8	13.5	22.5	42.2
0°	4.5	4.5	5.6	5.6	5.6	6.7	6.7	9.0	14.6	24.7	47.1
-2.5°	4.5	4.5	5.6	5.6	5.6	6.7	7.3	10.7	18.8	32.7	60.9
-5°	4.5	4.5	5.6	5.6	5.6	6.7	7.9	12.4	22.8	40.3	73.9
-7.5°	4.5	4.5	5.6	5.6	5.6	6.7	8.4	13.9	26.5	47.4	85.8
-10°	4.5	4.5	5.6	5.6	5.6	6.6	8.9	15.3	29.8	53.6	96.3
-12.5°	4.5	4.5	5.5	5.6	5.6	6.6	9.3	16.5	32.5	59.0	103.2
-15°	4.5	4.5	5.5	5.6	5.6	6.5	9.5	17.3	34.8	63.0	107.7
-17.5°	4.5	4.5	5.5	5.6	5.6	6.4	9.7	18.3	36.6	66.1	110.7
-20°	4.5	4.5	5.5	5.6	5.6	6.4	9.9	19.2	37.7	67.9	112.1



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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.5	4.5	5.4	5.6	5.6	6.3	10.3	19.8	37.9	68.5	111.8
-25°	4.5	4.5	5.4	5.6	5.6	6.4	10.5	20.0	37.3	67.8	109.8
-27.5°	4.5	4.5	5.4	5.6	5.6	6.5	10.4	19.8	35.7	66.2	108.7
-30°	4.5	4.5	5.3	5.6	5.6	6.5	10.1	19.3	34.6	64.3	105.8
-32.5°	4.5	4.5	5.3	5.6	5.7	6.4	9.6	18.8	33.9	61.1	101.0
-35°	4.5	4.5	5.2	5.6	5.7	6.3	9.3	18.2	32.6	56.4	94.4
-37.5°	4.5	4.5	5.1	5.6	5.7	6.2	9.1	17.1	30.7	50.4	84.0
-40°	4.5	4.5	5.1	5.6	5.8	6.2	8.8	15.6	28.2	46.5	74.0
-42.5°	4.5	4.5	5.0	5.6	5.8	6.2	8.4	13.8	25.8	42.1	63.4
-45°	4.5	4.5	5.0	5.6	5.8	6.3	7.8	12.2	23.2	37.2	53.1
-47.5°	4.5	4.5	4.9	5.7	5.9	6.2	7.1	11.3	20.0	32.0	47.2
-50°	4.5	4.5	4.8	5.6	5.9	6.2	6.9	10.2	16.1	27.5	40.9
-52.5°	4.5	4.5	4.7	5.5	5.9	6.2	6.9	9.0	13.7	22.7	34.4
-55°	4.5	4.5	4.7	5.4	6.0	6.2	6.7	7.7	11.8	17.5	28.4
-57.5°	4.5	4.5	4.6	5.3	6.0	6.2	6.6	7.5	9.8	14.4	22.1
-60°	4.5	4.5	4.5	5.2	6.0	6.2	6.5	7.2	8.0	11.8	16.6
-62.5°	4.5	4.5	4.5	5.1	5.9	6.3	6.5	7.0	7.7	9.0	13.3
-65°	4.5	4.5	4.5	5.0	5.7	6.3	6.6	6.8	7.4	8.1	9.8
-67.5°	4.5	4.5	4.5	4.9	5.5	6.2	6.6	6.8	7.1	7.8	8.5
-70°	4.5	4.5	4.5	4.8	5.4	6.0	6.6	6.8	7.0	7.4	8.0
-72.5°	4.5	4.5	4.5	4.7	5.2	5.8	6.4	6.7	6.9	7.2	7.6
-75°	4.5	4.5	4.5	4.7	5.0	5.6	6.1	6.5	6.7	6.9	7.2
-77.5°	4.5	4.5	4.5	4.7	5.0	5.4	5.9	6.1	6.4	6.6	6.8
-80°	4.5	4.5	4.5	4.6	4.9	5.2	5.6	5.8	6.0	6.2	6.4
-82.5°	4.5	4.5	4.5	4.6	4.8	5.0	5.3	5.5	5.6	5.8	5.9
-85°	4.5	4.5	4.5	4.6	4.7	4.9	5.1	5.2	5.3	5.3	5.4
-87.5°	4.5	4.5	4.5	4.5	4.6	4.7	4.8	4.8	4.9	4.9	5.0
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.2	4.0	3.7
87.5°	4.2	4.0	3.7	3.4	3.4	3.4	3.4	3.4	3.1	2.8	2.5
85°	4.2	4.0	3.7	3.6	3.6	3.6	3.5	3.4	3.2	3.1	3.0
82.5°	4.3	4.2	4.2	4.2	4.1	3.9	3.7	3.4	3.4	3.4	3.4
80°	4.5	4.5	4.5	4.5	4.3	4.0	3.7	3.4	3.4	3.4	3.5
77.5°	4.5	4.5	4.5	4.5	4.3	4.1	4.0	4.0	4.0	3.9	3.7
75°	4.5	4.5	4.6	4.5	4.4	4.4	4.5	4.5	4.3	4.1	3.8
72.5°	4.7	4.8	4.8	4.6	4.5	4.5	4.5	4.5	4.6	4.7	4.6
70°	5.1	5.2	5.0	4.7	4.5	4.7	5.3	5.8	6.2	6.2	6.4
67.5°	5.5	5.3	5.0	4.9	5.4	6.0	6.7	7.6	8.5	8.9	9.3
65°	5.6	5.3	5.3	5.8	6.6	7.5	8.5	9.7	12.1	13.5	14.2
62.5°	5.6	5.5	5.8	6.7	7.8	9.0	10.7	13.4	17.0	19.5	19.7
60°	5.6	5.7	6.6	7.8	9.0	10.5	13.1	17.2	22.7	26.8	24.5
57.5°	5.6	6.2	7.5	8.8	10.0	11.7	15.7	21.0	26.6	32.5	27.8
55°	5.9	7.1	8.4	9.5	11.1	13.2	17.4	22.4	28.6	30.3	24.9
52.5°	6.6	7.9	8.9	10.2	12.2	14.3	17.2	21.5	23.5	24.0	20.7
50°	7.3	8.3	9.3	10.9	12.9	14.6	15.5	18.1	18.9	17.9	16.1
47.5°	7.7	8.6	9.6	11.4	13.3	14.8	14.9	15.0	14.7	14.4	11.9
45°	8.0	9.0	9.9	11.9	14.0	15.3	14.6	12.4	14.2	13.7	13.1
42.5°	8.3	9.3	10.9	12.4	15.2	16.1	14.9	15.4	15.9	16.6	16.8
40°	8.6	9.6	12.3	15.2	16.8	17.3	19.1	20.5	19.9	21.8	22.9
37.5°	8.8	11.1	14.8	20.4	18.7	21.1	24.6	30.2	30.4	28.6	32.9
35°	9.0	12.9	21.1	27.1	25.7	27.2	36.4	43.8	46.0	43.5	46.3
32.5°	10.1	14.8	29.0	35.3	38.9	40.7	51.2	62.3	70.6	72.2	65.4
30°	12.2	22.0	38.1	45.2	55.6	65.7	73.0	86.3	103.4	116.7	122.2
27.5°	14.9	30.8	47.6	60.3	76.2	93.4	105.9	122.6	150.5	174.4	194.1
25°	17.8	42.8	58.1	78.8	102.4	124.6	144.0	171.8	208.7	248.4	317.5
22.5°	24.1	56.4	74.1	99.3	130.4	158.2	190.5	230.0	277.3	331.8	459.9
20°	34.6	69.8	93.2	122.1	160.5	193.5	238.9	289.4	353.9	470.2	687.6
17.5°	45.7	84.2	112.9	149.1	196.7	238.4	289.3	348.4	433.8	619.9	1048.1
15°	57.2	99.4	131.6	177.7	236.3	295.8	357.3	421.6	543.8	831.7	1507.2
12.5°	68.9	114.9	149.4	207.2	278.3	355.7	429.1	510.9	687.6	1195.7	2187.2
10°	80.3	130.6	166.2	237.0	321.6	417.0	500.3	596.6	837.1	1525.4	2795.3
7.5°	99.3	151.0	184.2	266.4	365.2	478.3	570.2	678.3	983.1	1812.8	3355.5
5°	119.2	176.1	212.9	302.4	408.2	532.9	633.3	755.3	1121.4	2054.6	3880.8
2.5°	138.3	200.2	240.8	336.9	448.5	575.3	673.4	798.4	1195.3	2167.6	4205.4
0°	155.7	223.0	267.8	368.6	485.2	612.9	709.3	835.9	1240.4	2189.4	4309.4
-2.5°	176.8	248.0	295.7	393.8	505.3	635.0	732.0	864.4	1287.0	2311.9	4328.2
-5°	195.0	271.1	322.3	416.2	522.1	652.3	751.0	886.6	1308.8	2367.6	4237.2
-7.5°	209.7	292.3	347.4	434.0	530.8	655.7	758.0	890.2	1293.6	2338.9	4050.9
-10°	218.5	301.2	353.5	433.7	528.0	648.4	758.0	887.0	1249.9	2219.8	3789.5
-12.5°	212.1	298.8	354.6	430.4	522.6	636.2	752.7	876.9	1175.5	2000.0	3483.5
-15°	204.2	294.8	353.9	424.2	514.9	618.9	741.5	859.6	1059.5	1659.1	3105.5
-17.5°	195.1	289.3	351.2	414.8	505.0	596.8	718.7	814.5	939.6	1413.6	2669.8
-20°	185.3	282.4	346.5	402.4	493.0	564.8	665.1	763.8	877.9	1202.1	2083.8



REPORT NUMBER: P701352 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	174.9	274.1	338.5	394.4	462.5	528.0	608.8	705.4	810.0	939.4	1460.5
-25°	168.9	258.6	327.2	375.7	429.5	490.4	550.9	640.1	739.1	843.3	1117.6
-27.5°	165.8	243.7	308.6	357.1	397.7	452.9	504.2	575.5	667.3	756.3	843.3
-30°	160.4	222.4	289.7	337.7	374.6	418.1	462.4	520.1	601.6	679.8	751.9
-32.5°	148.8	200.9	266.4	316.2	354.1	385.9	429.6	481.2	543.8	611.7	669.8
-35°	134.6	183.9	241.3	294.8	334.0	364.0	403.4	446.8	492.7	551.6	621.0
-37.5°	121.4	165.4	216.3	270.7	310.9	347.4	377.7	416.7	456.4	500.0	569.4
-40°	107.3	145.6	193.7	243.7	290.2	328.0	359.5	388.7	423.4	467.0	513.3
-42.5°	92.5	128.8	170.5	217.3	263.9	304.7	340.4	367.3	397.0	434.5	475.8
-45°	80.3	111.2	146.8	191.1	235.1	278.1	314.4	348.3	376.8	404.4	440.1
-47.5°	67.6	93.8	126.6	164.3	206.1	246.5	285.9	323.3	359.5	385.3	407.2
-50°	55.9	79.4	106.1	140.7	177.2	215.0	251.9	295.8	334.1	366.6	392.1
-52.5°	48.5	64.5	89.1	117.5	150.3	184.3	220.8	261.1	302.6	341.4	371.1
-55°	40.6	54.5	71.8	96.4	124.2	155.0	189.1	226.2	264.0	302.9	340.9
-57.5°	33.1	45.3	58.6	75.7	99.8	126.2	157.4	190.3	225.1	260.4	295.6
-60°	25.4	36.2	48.1	60.6	75.4	99.1	125.0	153.9	184.8	216.5	248.2
-62.5°	18.2	27.0	37.5	48.8	60.5	73.3	94.2	118.3	143.2	169.5	197.2
-65°	14.1	18.7	26.4	36.4	47.1	58.3	70.8	84.3	105.1	125.5	144.9
-67.5°	9.9	14.2	18.3	23.5	32.6	42.3	52.7	63.9	76.0	87.9	101.9
-70°	8.8	10.0	13.3	17.1	20.6	25.4	33.9	43.0	52.3	61.3	71.3
-72.5°	8.3	9.2	10.4	11.8	14.8	17.8	20.7	23.5	29.0	36.4	43.7
-75°	7.7	8.3	9.1	10.2	11.4	12.6	14.1	16.6	18.9	21.1	23.3
-77.5°	7.1	7.5	8.0	8.6	9.3	10.2	11.2	12.3	13.3	14.2	15.1
-80°	6.5	6.7	7.0	7.3	7.8	8.3	8.8	9.5	9.9	10.4	11.0
-82.5°	6.0	6.1	6.3	6.4	6.5	6.6	6.8	7.1	7.4	7.7	8.0
-85°	5.5	5.6	5.7	5.8	5.6	5.5	5.5	5.4	5.5	5.7	5.8
-87.5°	5.0	5.0	5.1	5.1	5.0	4.9	4.7	4.5	4.4	4.4	4.3
-90°	4.2	4.0	3.7	3.4	3.4	3.4	3.4	3.4	3.1	2.8	2.5



REPORT NUMBER: P701352 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	3.4	3.4	3.4	3.4	3.4	4.0	4.5	5.1	5.6	6.2	6.7
87.5°	2.2	2.2	2.2	2.2	2.2	1.9	1.7	1.4	1.1	1.1	1.1
85°	3.0	2.8	2.6	2.4	2.2	2.2	2.1	2.1	2.1	1.9	1.6
82.5°	3.4	3.1	2.8	2.5	2.2	2.2	2.2	2.2	2.2	1.9	1.7
80°	3.4	3.1	2.8	2.5	2.2	2.2	2.2	2.2	2.2	1.9	1.7
77.5°	3.5	3.2	3.0	2.9	2.9	2.8	2.7	2.5	2.2	2.0	1.7
75°	3.5	3.4	3.5	3.5	3.4	3.2	2.9	2.6	2.3	2.2	2.2
72.5°	4.4	4.2	4.2	4.3	4.3	4.1	3.9	3.6	3.2	3.2	3.3
70°	6.6	6.7	6.7	6.6	6.3	5.7	5.3	4.9	4.4	4.3	4.4
67.5°	9.9	10.0	9.7	9.0	7.9	6.8	6.4	6.0	5.5	5.4	5.4
65°	14.3	13.2	12.1	10.8	9.3	7.7	7.2	6.8	6.5	6.5	6.9
62.5°	18.5	15.1	12.1	10.2	8.8	7.7	7.2	6.7	6.2	6.0	6.2
60°	20.3	14.4	10.5	9.3	8.1	6.9	6.2	5.7	5.2	4.9	5.1
57.5°	20.4	14.1	9.7	8.2	7.0	6.0	5.4	5.1	4.8	4.5	4.9
55°	18.1	12.5	8.2	7.0	6.4	5.8	5.5	5.5	5.3	5.2	5.4
52.5°	14.5	10.5	7.6	6.6	6.6	6.6	6.6	6.6	6.7	6.9	7.2
50°	11.6	8.9	8.1	7.6	7.9	7.9	7.7	8.2	8.8	9.1	9.4
47.5°	10.6	9.7	9.8	9.6	10.0	10.7	10.9	11.2	12.1	12.7	13.0
45°	11.8	12.7	13.2	14.1	14.7	16.0	16.4	16.4	18.2	19.5	20.2
42.5°	16.5	18.0	19.7	21.5	22.4	24.0	25.7	26.6	29.4	31.6	32.5
40°	24.9	25.8	29.5	31.7	33.4	35.5	40.6	44.1	49.5	59.5	66.9
37.5°	36.6	39.3	41.5	44.7	51.8	55.2	71.8	86.9	97.2	122.2	136.3
35°	53.6	61.0	58.5	72.8	90.6	112.8	137.1	173.2	201.8	235.6	266.9
32.5°	84.1	102.1	119.5	136.2	176.0	239.9	241.7	309.3	354.6	409.4	457.7
30°	133.0	196.7	276.8	303.3	415.5	540.9	506.1	609.8	712.6	773.7	984.8
27.5°	262.6	406.0	565.1	767.3	976.4	1192.1	1334.9	1384.9	1904.8	2287.1	2784.8
25°	449.3	700.9	1145.4	1472.8	1840.0	2319.0	2595.6	2968.1	3835.3	4916.1	5755.5
22.5°	715.9	1155.7	1742.9	2238.4	2788.8	3434.2	4018.0	4910.9	6259.5	7734.7	8989.7
20°	1014.8	1581.7	2325.8	3068.1	3789.6	4630.8	5646.5	7469.8	9553.7	11866.1	13956.6
17.5°	1566.2	2123.7	3076.6	4091.4	5116.6	6129.8	8363.3	11063.6	14325.7	17752.2	20795.5
15°	2354.2	3256.5	4201.6	5543.5	7249.8	9196.9	12025.5	16761.7	21828.0	27175.6	33550.7
12.5°	3382.5	4690.6	6108.4	7662.1	9975.6	13529.8	18222.2	24003.1	31255.0	39277.7	48349.3
10°	4432.0	6318.4	8270.9	10489.9	13539.0	18117.1	24177.0	31415.4	42819.9	54060.5	63528.3
7.5°	5285.2	7483.7	9947.1	12894.7	16868.9	22447.2	29935.9	40396.9	53997.4	67371.8	77963.5
5°	6085.7	8500.8	11065.3	14076.9	18868.2	25595.1	34613.7	47665.3	63936.0	78159.9	89509.4
2.5°	6666.4	9203.3	11856.3	14920.7	20383.2	27508.7	37410.0	53599.7	72327.2	86900.4	99913.9
0°	6923.4	9270.8	11808.7	14952.8	20433.0	28484.8	38379.7	56105.6	76211.5	91878.5	104950.6
-2.5°	6604.8	8883.7	11502.6	14574.1	20067.7	27802.5	38023.7	55823.5	75998.4	91887.2	104775.2
-5°	6267.6	8428.0	10859.2	13698.4	18707.8	25899.7	36328.1	53335.1	72695.2	88669.1	101241.1
-7.5°	5908.1	7885.5	10060.6	12607.9	17052.0	23972.8	33656.2	48010.2	66106.6	82370.8	94194.7
-10°	5497.2	7297.3	9584.6	12284.4	16153.2	22169.2	30177.4	41676.7	58626.4	73737.4	86719.4
-12.5°	5255.9	7176.0	9461.6	11941.5	15062.2	20363.9	27650.2	37459.3	49061.8	63098.5	74649.8
-15°	4945.8	6889.3	9156.1	11482.7	14371.3	18510.7	24263.6	31468.4	40296.9	49755.9	60008.9
-17.5°	4435.9	6378.3	8203.8	10387.3	13131.0	16401.4	20535.6	26127.0	31984.8	38686.9	44821.1
-20°	3596.2	5165.2	6891.6	8949.0	11307.6	13785.9	16546.7	20356.5	24072.3	28764.4	32531.2



REPORT NUMBER: P701352 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2587.4	3913.6	5409.2	7109.5	8977.3	11099.1	13178.9	15189.4	17736.0	20706.0	23732.6
-25°	1685.1	2666.3	3961.4	5354.9	6659.4	8355.0	9849.2	11050.0	12767.2	14111.1	15945.2
-27.5°	1166.9	1804.6	2769.4	3879.7	4908.6	5994.0	7210.3	8030.1	9367.8	10094.8	11219.2
-30°	853.8	1211.8	1905.6	2736.1	3632.4	4556.3	5424.7	6326.0	7256.5	8079.4	8703.4
-32.5°	757.1	897.7	1240.0	1837.7	2539.1	3313.7	4049.1	4834.8	5576.1	6214.0	6728.7
-35°	691.5	770.4	877.9	1193.9	1612.5	2217.3	2795.8	3431.9	4027.3	4520.4	4933.6
-37.5°	639.5	702.7	770.3	839.7	1074.7	1339.4	1750.6	2192.6	2574.7	3011.3	3348.5
-40°	580.5	648.0	702.1	757.5	819.8	886.3	1108.8	1306.7	1522.6	1817.3	2058.1
-42.5°	519.6	578.4	639.4	690.9	737.9	787.5	837.6	881.9	991.5	1121.5	1220.1
-45°	477.5	519.0	563.8	618.4	668.9	712.0	752.5	791.3	831.0	867.8	898.3
-47.5°	440.4	473.9	510.8	548.3	586.4	630.6	672.1	711.5	746.0	777.3	802.5
-50°	413.3	436.5	467.1	496.7	529.3	560.1	587.7	620.0	655.3	687.4	713.1
-52.5°	399.6	419.9	437.4	458.7	488.1	513.9	536.6	562.2	586.7	609.2	625.7
-55°	372.6	399.2	424.8	448.7	469.0	487.5	507.1	532.2	553.8	572.4	582.6
-57.5°	330.4	364.5	396.8	427.1	455.6	482.4	504.7	524.6	544.6	563.5	572.3
-60°	280.5	313.1	346.8	383.3	420.0	456.6	483.6	509.3	533.6	553.9	564.7
-62.5°	226.8	256.5	286.7	319.6	354.5	388.8	418.2	448.9	480.3	507.4	524.7
-65°	165.8	191.1	218.2	245.1	271.7	299.1	325.4	351.2	376.3	396.6	410.7
-67.5°	118.9	135.2	151.9	169.2	189.8	210.9	230.4	249.1	267.1	281.4	292.0
-70°	81.7	92.2	102.1	113.1	126.2	139.1	151.1	162.5	173.1	182.1	189.7
-72.5°	50.8	57.7	64.6	72.3	79.8	87.0	93.7	100.1	106.0	111.3	116.1
-75°	25.5	28.8	34.2	39.3	44.2	49.2	53.9	58.0	61.5	64.5	67.1
-77.5°	16.6	18.6	20.6	22.4	24.2	26.5	29.1	31.8	34.4	36.5	38.5
-80°	11.6	12.7	13.9	15.1	16.4	17.9	19.4	20.9	22.3	23.3	24.1
-82.5°	8.2	8.9	9.6	10.3	11.0	12.1	13.1	14.2	15.2	15.9	16.6
-85°	5.9	6.2	6.5	6.8	7.2	8.1	9.1	10.0	10.9	11.6	12.2
-87.5°	4.3	4.3	4.4	4.4	4.4	5.2	6.0	6.9	7.7	8.1	8.4
-90°	2.2	2.2	2.2	2.2	2.2	1.9	1.7	1.4	1.1	1.1	1.1



REPORT NUMBER: P701352 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	7.3	7.8	7.8	7.8	7.8	7.8	7.3	6.7	6.2	5.6	5.1
87.5°	1.1	1.1	0.6	0.0	0.6	1.1	1.1	1.1	1.1	1.1	1.4
85°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.6	1.9	2.1	2.1
82.5°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.2
80°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.2
77.5°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	2.0	2.2	2.5
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.6
72.5°	3.3	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.2	3.2	3.6
70°	4.4	4.5	4.0	3.4	4.0	4.5	4.4	4.4	4.3	4.4	4.9
67.5°	5.5	5.6	6.1	6.7	6.1	5.6	5.5	5.4	5.4	5.5	6.0
65°	7.3	7.7	7.3	6.7	7.3	7.7	7.3	6.9	6.5	6.5	6.8
62.5°	6.4	6.7	6.2	5.6	6.2	6.7	6.4	6.2	6.0	6.2	6.7
60°	5.3	5.6	5.6	5.6	5.6	5.6	5.3	5.1	4.9	5.2	5.7
57.5°	5.2	5.5	5.6	5.6	5.6	5.5	5.2	4.9	4.5	4.8	5.1
55°	5.5	5.6	5.6	5.6	5.6	5.6	5.5	5.4	5.2	5.3	5.5
52.5°	7.5	7.7	7.8	7.8	7.8	7.7	7.5	7.2	6.9	6.7	6.6
50°	9.7	9.9	10.1	10.1	10.1	9.9	9.7	9.4	9.1	8.8	8.2
47.5°	13.3	13.3	13.3	13.4	13.3	13.3	13.3	13.0	12.7	12.1	11.2
45°	20.5	20.2	20.1	20.2	20.1	20.2	20.5	20.2	19.5	18.2	16.4
42.5°	33.3	33.4	33.3	33.6	33.3	33.4	33.3	32.5	31.6	29.4	26.6
40°	68.9	66.4	62.9	62.7	62.9	66.4	68.9	66.9	59.5	49.5	44.1
37.5°	143.3	145.8	145.5	147.9	145.5	145.8	143.3	136.3	122.2	97.2	86.9
35°	290.7	303.7	306.6	305.9	306.6	303.7	290.7	266.9	235.6	201.8	173.2
32.5°	478.7	496.0	500.9	507.6	500.9	496.0	478.7	457.7	409.4	354.6	309.3
30°	841.7	865.0	842.7	797.8	842.7	865.0	841.7	984.8	773.7	712.6	609.8
27.5°	3049.8	3161.6	2909.9	2818.0	2909.9	3161.6	3049.8	2784.8	2287.1	1904.8	1384.9
25°	6215.4	6710.1	7217.1	7172.2	7217.1	6710.1	6215.4	5755.5	4916.1	3835.3	2968.1
22.5°	10030.8	10532.1	10949.9	11093.8	10949.9	10532.1	10030.8	8989.7	7734.7	6259.5	4910.9
20°	15888.0	16864.3	17563.4	16818.4	17563.4	16864.3	15888.0	13956.6	11866.1	9553.7	7469.8
17.5°	25396.0	28336.0	29863.2	30827.7	29863.2	28336.0	25396.0	20795.5	17752.2	14325.7	11063.6
15°	39422.9	43856.7	46313.0	47939.6	46313.0	43856.7	39422.9	33550.7	27175.6	21828.0	16761.7
12.5°	55599.4	60433.5	62604.5	64376.5	62604.5	60433.5	55599.4	48349.3	39277.7	31255.0	24003.1
10°	70977.4	76199.9	79815.8	81695.1	79815.8	76199.9	70977.4	63528.3	54060.5	42819.9	31415.4
7.5°	85067.2	91456.0	95125.2	96293.2	95125.2	91456.0	85067.2	77963.5	67371.8	53997.4	40396.9
5°	98849.0	104549.2	108961.9	109962.5	108961.9	104549.2	98849.0	89509.4	78159.9	63936.0	47665.3
2.5°	109460.5	116292.0	120253.7	121451.3	120253.7	116292.0	109460.5	99913.9	86900.4	72327.2	53599.7
0°	114323.3	120683.2	125374.0	127056.4	125374.0	120683.2	114323.3	104950.6	91878.5	76211.5	56105.6
-2.5°	113306.2	119167.2	122524.9	123103.4	122524.9	119167.2	113306.2	104775.2	91887.2	75998.4	55823.5
-5°	109728.9	115113.9	118430.3	118525.1	118430.3	115113.9	109728.9	101241.1	88669.1	72695.2	53335.1
-7.5°	101871.2	106906.7	109218.8	109799.5	109218.8	106906.7	101871.2	94194.7	82370.8	66106.6	48010.2
-10°	93873.5	98545.2	100730.0	100971.7	100730.0	98545.2	93873.5	86719.4	73737.4	58626.4	41676.7
-12.5°	83513.9	88512.7	90694.1	91719.9	90694.1	88512.7	83513.9	74649.8	63098.5	49061.8	37459.3
-15°	68097.6	72931.4	75548.5	77481.0	75548.5	72931.4	68097.6	60008.9	49755.9	40296.9	31468.4
-17.5°	51579.2	55722.4	58301.5	60649.2	58301.5	55722.4	51579.2	44821.1	38686.9	31984.8	26127.0
-20°	36722.2	39360.8	40171.2	41436.3	40171.2	39360.8	36722.2	32531.2	28764.4	24072.3	20356.5



REPORT NUMBER: P701352 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	25791.9	27292.1	28242.4	28779.4	28242.4	27292.1	25791.9	23732.6	20706.0	17736.0	15189.4
-25°	17485.1	18525.5	18930.2	19396.6	18930.2	18525.5	17485.1	15945.2	14111.1	12767.2	11050.0
-27.5°	11712.2	12139.4	12431.2	12589.7	12431.2	12139.4	11712.2	11219.2	10094.8	9367.8	8030.1
-30°	9205.7	9596.3	9830.6	9905.0	9830.6	9596.3	9205.7	8703.4	8079.4	7256.5	6326.0
-32.5°	7127.2	7422.6	7580.4	7601.3	7580.4	7422.6	7127.2	6728.7	6214.0	5576.1	4834.8
-35°	5280.1	5549.1	5698.0	5687.5	5698.0	5549.1	5280.1	4933.6	4520.4	4027.3	3431.9
-37.5°	3638.4	3866.4	4006.3	4042.7	4006.3	3866.4	3638.4	3348.5	3011.3	2574.7	2192.6
-40°	2276.2	2443.6	2543.6	2556.9	2543.6	2443.6	2276.2	2058.1	1817.3	1522.6	1306.7
-42.5°	1306.6	1374.4	1412.5	1410.7	1412.5	1374.4	1306.6	1220.1	1121.5	991.5	881.9
-45°	918.3	933.5	942.1	943.4	942.1	933.5	918.3	898.3	867.8	831.0	791.3
-47.5°	820.7	835.1	842.8	843.7	842.8	835.1	820.7	802.5	777.3	746.0	711.5
-50°	733.6	750.7	759.9	761.9	759.9	750.7	733.6	713.1	687.4	655.3	620.0
-52.5°	639.1	650.4	654.1	652.1	654.1	650.4	639.1	625.7	609.2	586.7	562.2
-55°	592.1	601.3	605.3	606.2	605.3	601.3	592.1	582.6	572.4	553.8	532.2
-57.5°	580.7	589.0	591.6	591.6	591.6	589.0	580.7	572.3	563.5	544.6	524.6
-60°	575.3	585.6	587.6	586.0	587.6	585.6	575.3	564.7	553.9	533.6	509.3
-62.5°	540.1	553.2	557.4	556.9	557.4	553.2	540.1	524.7	507.4	480.3	448.9
-65°	422.7	432.3	437.3	439.2	437.3	432.3	422.7	410.7	396.6	376.3	351.2
-67.5°	300.7	307.3	309.5	309.3	309.5	307.3	300.7	292.0	281.4	267.1	249.1
-70°	196.0	201.2	201.7	200.6	201.7	201.2	196.0	189.7	182.1	173.1	162.5
-72.5°	120.3	123.9	123.5	122.1	123.5	123.9	120.3	116.1	111.3	106.0	100.1
-75°	69.2	71.0	70.5	69.5	70.5	71.0	69.2	67.1	64.5	61.5	58.0
-77.5°	40.4	42.2	42.5	42.6	42.5	42.2	40.4	38.5	36.5	34.4	31.8
-80°	24.9	25.7	25.8	25.8	25.8	25.7	24.9	24.1	23.3	22.3	20.9
-82.5°	17.2	17.8	17.9	17.9	17.9	17.8	17.2	16.6	15.9	15.2	14.2
-85°	12.8	13.4	13.4	13.4	13.4	13.4	12.8	12.2	11.6	10.9	10.0
-87.5°	8.7	9.0	9.0	9.0	9.0	9.0	8.7	8.4	8.1	7.7	6.9
-90°	1.1	1.1	0.5	0.0	0.5	1.1	1.1	1.1	1.1	1.1	1.4



REPORT NUMBER: P701352 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	4.5	4.0	3.4	3.4	3.4	3.4	3.4	3.7	4.0	4.2	4.5
87.5°	1.7	1.9	2.2	2.2	2.2	2.2	2.2	2.5	2.8	3.1	3.4
85°	2.1	2.2	2.2	2.4	2.6	2.8	3.0	3.0	3.1	3.2	3.4
82.5°	2.2	2.2	2.2	2.5	2.8	3.1	3.4	3.4	3.4	3.4	3.4
80°	2.2	2.2	2.2	2.5	2.8	3.1	3.4	3.5	3.4	3.4	3.4
77.5°	2.7	2.8	2.9	2.9	3.0	3.2	3.5	3.7	3.9	4.0	4.0
75°	2.9	3.2	3.4	3.5	3.5	3.4	3.5	3.8	4.1	4.3	4.5
72.5°	3.9	4.1	4.3	4.3	4.2	4.2	4.4	4.6	4.7	4.6	4.5
70°	5.3	5.7	6.3	6.6	6.7	6.7	6.6	6.4	6.2	6.2	5.8
67.5°	6.4	6.8	7.9	9.0	9.7	10.0	9.9	9.3	8.9	8.5	7.6
65°	7.2	7.7	9.3	10.8	12.1	13.2	14.3	14.2	13.5	12.1	9.7
62.5°	7.2	7.7	8.8	10.2	12.1	15.1	18.5	19.7	19.5	17.0	13.4
60°	6.2	6.9	8.1	9.3	10.5	14.4	20.3	24.5	26.8	22.7	17.2
57.5°	5.4	6.0	7.0	8.2	9.7	14.1	20.4	27.8	32.5	26.6	21.0
55°	5.5	5.8	6.4	7.0	8.2	12.5	18.1	24.9	30.3	28.6	22.4
52.5°	6.6	6.6	6.6	6.6	7.6	10.5	14.5	20.7	24.0	23.5	21.5
50°	7.7	7.9	7.9	7.6	8.1	8.9	11.6	16.1	17.9	18.9	18.1
47.5°	10.9	10.7	10.0	9.6	9.8	9.7	10.6	11.9	14.4	14.7	15.0
45°	16.4	16.0	14.7	14.1	13.2	12.7	11.8	13.1	13.7	14.2	12.4
42.5°	25.7	24.0	22.4	21.5	19.7	18.0	16.5	16.8	16.6	15.9	15.4
40°	40.6	35.5	33.4	31.7	29.5	25.8	24.9	22.9	21.8	19.9	20.5
37.5°	71.8	55.2	51.8	44.7	41.5	39.3	36.6	32.9	28.6	30.4	30.2
35°	137.1	112.8	90.6	72.8	58.5	61.0	53.6	46.3	43.5	46.0	43.8
32.5°	241.7	239.9	176.0	136.2	119.5	102.1	84.1	65.4	72.2	70.6	62.3
30°	506.1	540.9	415.5	303.3	276.8	196.7	133.0	122.2	116.7	103.4	86.3
27.5°	1334.9	1192.1	976.4	767.3	565.1	406.0	262.6	194.1	174.4	150.5	122.6
25°	2595.6	2319.0	1840.0	1472.8	1145.4	700.9	449.3	317.5	248.4	208.7	171.8
22.5°	4018.0	3434.2	2788.8	2238.4	1742.9	1155.7	715.9	459.9	331.8	277.3	230.0
20°	5646.5	4630.8	3789.6	3068.1	2325.8	1581.7	1014.8	687.6	470.2	353.9	289.4
17.5°	8363.3	6129.8	5116.6	4091.4	3076.6	2123.7	1566.2	1048.1	619.9	433.8	348.4
15°	12025.5	9196.9	7249.8	5543.5	4201.6	3256.5	2354.2	1507.2	831.7	543.8	421.6
12.5°	18222.2	13529.8	9975.6	7662.1	6108.4	4690.6	3382.5	2187.2	1195.7	687.6	510.9
10°	24177.0	18117.1	13539.0	10489.9	8270.9	6318.4	4432.0	2795.3	1525.4	837.1	596.6
7.5°	29935.9	22447.2	16868.9	12894.7	9947.1	7483.7	5285.2	3355.5	1812.8	983.1	678.3
5°	34613.7	25595.1	18868.2	14076.9	11065.3	8500.8	6085.7	3880.8	2054.6	1121.4	755.3
2.5°	37410.0	27508.7	20383.2	14920.7	11856.3	9203.3	6666.4	4205.4	2167.6	1195.3	798.4
0°	38379.7	28484.8	20433.0	14952.8	11808.7	9270.8	6923.4	4309.4	2189.4	1240.4	835.9
-2.5°	38023.7	27802.5	20067.7	14574.1	11502.6	8883.7	6604.8	4328.2	2311.9	1287.0	864.4
-5°	36328.1	25899.7	18707.8	13698.4	10859.2	8428.0	6267.6	4237.2	2367.6	1308.8	886.6
-7.5°	33656.2	23972.8	17052.0	12607.9	10060.6	7885.5	5908.1	4050.9	2338.9	1293.6	890.2
-10°	30177.4	22169.2	16153.2	12284.4	9584.6	7297.3	5497.2	3789.5	2219.8	1249.9	887.0
-12.5°	27650.2	20363.9	15062.2	11941.5	9461.6	7176.0	5255.9	3483.5	2000.0	1175.5	876.9
-15°	24263.6	18510.7	14371.3	11482.7	9156.1	6889.3	4945.8	3105.5	1659.1	1059.5	859.6
-17.5°	20535.6	16401.4	13131.0	10387.3	8203.8	6378.3	4435.9	2669.8	1413.6	939.6	814.5
-20°	16546.7	13785.9	11307.6	8949.0	6891.6	5165.2	3596.2	2083.8	1202.1	877.9	763.8



REPORT NUMBER: P701352 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	13178.9	11099.1	8977.3	7109.5	5409.2	3913.6	2587.4	1460.5	939.4	810.0	705.4
-25°	9849.2	8355.0	6659.4	5354.9	3961.4	2666.3	1685.1	1117.6	843.3	739.1	640.1
-27.5°	7210.3	5994.0	4908.6	3879.7	2769.4	1804.6	1166.9	843.3	756.3	667.3	575.5
-30°	5424.7	4556.3	3632.4	2736.1	1905.6	1211.8	853.8	751.9	679.8	601.6	520.1
-32.5°	4049.1	3313.7	2539.1	1837.7	1240.0	897.7	757.1	669.8	611.7	543.8	481.2
-35°	2795.8	2217.3	1612.5	1193.9	877.9	770.4	691.5	621.0	551.6	492.7	446.8
-37.5°	1750.6	1339.4	1074.7	839.7	770.3	702.7	639.5	569.4	500.0	456.4	416.7
-40°	1108.8	886.3	819.8	757.5	702.1	648.0	580.5	513.3	467.0	423.4	388.7
-42.5°	837.6	787.5	737.9	690.9	639.4	578.4	519.6	475.8	434.5	397.0	367.3
-45°	752.5	712.0	668.9	618.4	563.8	519.0	477.5	440.1	404.4	376.8	348.3
-47.5°	672.1	630.6	586.4	548.3	510.8	473.9	440.4	407.2	385.3	359.5	323.3
-50°	587.7	560.1	529.3	496.7	467.1	436.5	413.3	392.1	366.6	334.1	295.8
-52.5°	536.6	513.9	488.1	458.7	437.4	419.9	399.6	371.1	341.4	302.6	261.1
-55°	507.1	487.5	469.0	448.7	424.8	399.2	372.6	340.9	302.9	264.0	226.2
-57.5°	504.7	482.4	455.6	427.1	396.8	364.5	330.4	295.6	260.4	225.1	190.3
-60°	483.6	456.6	420.0	383.3	346.8	313.1	280.5	248.2	216.5	184.8	153.9
-62.5°	418.2	388.8	354.5	319.6	286.7	256.5	226.8	197.2	169.5	143.2	118.3
-65°	325.4	299.1	271.7	245.1	218.2	191.1	165.8	144.9	125.5	105.1	84.3
-67.5°	230.4	210.9	189.8	169.2	151.9	135.2	118.9	101.9	87.9	76.0	63.9
-70°	151.1	139.1	126.2	113.1	102.1	92.2	81.7	71.3	61.3	52.3	43.0
-72.5°	93.7	87.0	79.8	72.3	64.6	57.7	50.8	43.7	36.4	29.0	23.5
-75°	53.9	49.2	44.2	39.3	34.2	28.8	25.5	23.3	21.1	18.9	16.6
-77.5°	29.1	26.5	24.2	22.4	20.6	18.6	16.6	15.1	14.2	13.3	12.3
-80°	19.4	17.9	16.4	15.1	13.9	12.7	11.6	11.0	10.4	9.9	9.5
-82.5°	13.1	12.1	11.0	10.3	9.6	8.9	8.2	8.0	7.7	7.4	7.1
-85°	9.1	8.1	7.2	6.8	6.5	6.2	5.9	5.8	5.7	5.5	5.4
-87.5°	6.0	5.2	4.4	4.4	4.4	4.3	4.3	4.3	4.4	4.4	4.5
-90°	1.7	1.9	2.2	2.2	2.2	2.2	2.2	2.5	2.8	3.1	3.4



REPORT NUMBER: P701352 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	3.4	3.4	3.4	3.4	3.7	4.0	4.2	4.5	4.5	4.5	4.5
85°	3.5	3.6	3.6	3.6	3.7	4.0	4.2	4.5	4.5	4.5	4.5
82.5°	3.7	3.9	4.1	4.2	4.2	4.2	4.3	4.5	4.5	4.5	4.5
80°	3.7	4.0	4.3	4.5	4.5	4.5	4.5	4.5	4.7	4.7	4.7
77.5°	4.0	4.1	4.3	4.5	4.5	4.5	4.5	4.6	4.8	4.9	4.9
75°	4.5	4.4	4.4	4.5	4.6	4.5	4.5	4.6	4.9	5.1	5.2
72.5°	4.5	4.5	4.5	4.6	4.8	4.8	4.7	4.6	4.9	5.1	5.4
70°	5.3	4.7	4.5	4.7	5.0	5.2	5.1	5.0	4.9	5.2	5.4
67.5°	6.7	6.0	5.4	4.9	5.0	5.3	5.5	5.3	5.2	5.2	5.5
65°	8.5	7.5	6.6	5.8	5.3	5.3	5.6	5.6	5.4	5.4	5.5
62.5°	10.7	9.0	7.8	6.7	5.8	5.5	5.6	5.6	5.6	5.5	5.5
60°	13.1	10.5	9.0	7.8	6.6	5.7	5.6	5.6	5.6	5.6	5.6
57.5°	15.7	11.7	10.0	8.8	7.5	6.2	5.6	5.6	5.6	5.6	5.6
55°	17.4	13.2	11.1	9.5	8.4	7.1	5.9	5.6	5.6	5.6	5.6
52.5°	17.2	14.3	12.2	10.2	8.9	7.9	6.6	5.6	5.6	5.6	5.6
50°	15.5	14.6	12.9	10.9	9.3	8.3	7.3	6.1	5.6	5.6	5.6
47.5°	14.9	14.8	13.3	11.4	9.6	8.6	7.7	6.6	5.6	5.6	5.6
45°	14.6	15.3	14.0	11.9	9.9	9.0	8.0	7.0	5.9	5.6	5.6
42.5°	14.9	16.1	15.2	12.4	10.9	9.3	8.3	7.3	6.2	5.7	5.6
40°	19.1	17.3	16.8	15.2	12.3	9.6	8.6	7.5	6.5	5.9	5.7
37.5°	24.6	21.1	18.7	20.4	14.8	11.1	8.8	7.7	6.9	6.2	5.8
35°	36.4	27.2	25.7	27.1	21.1	12.9	9.0	7.9	7.2	6.5	6.0
32.5°	51.2	40.7	38.9	35.3	29.0	14.8	10.1	8.5	7.6	6.8	6.1
30°	73.0	65.7	55.6	45.2	38.1	22.0	12.2	9.2	7.9	7.1	6.3
27.5°	105.9	93.4	76.2	60.3	47.6	30.8	14.9	10.1	8.2	7.4	6.5
25°	144.0	124.6	102.4	78.8	58.1	42.8	17.8	11.2	8.8	7.6	6.8
22.5°	190.5	158.2	130.4	99.3	74.1	56.4	24.1	13.6	9.6	7.9	7.0
20°	238.9	193.5	160.5	122.1	93.2	69.8	34.6	15.9	10.5	8.2	7.2
17.5°	289.3	238.4	196.7	149.1	112.9	84.2	45.7	18.3	11.4	8.4	7.4
15°	357.3	295.8	236.3	177.7	131.6	99.4	57.2	20.7	12.3	8.6	7.6
12.5°	429.1	355.7	278.3	207.2	149.4	114.9	68.9	23.0	13.3	9.2	7.8
10°	500.3	417.0	321.6	237.0	166.2	130.6	80.3	26.3	15.5	10.2	8.1
7.5°	570.2	478.3	365.2	266.4	184.2	151.0	99.3	31.6	17.9	11.3	8.3
5°	633.3	532.9	408.2	302.4	212.9	176.1	119.2	37.0	20.2	12.4	8.6
2.5°	673.4	575.3	448.5	336.9	240.8	200.2	138.3	42.2	22.5	13.5	8.8
0°	709.3	612.9	485.2	368.6	267.8	223.0	155.7	47.1	24.7	14.6	9.0
-2.5°	732.0	635.0	505.3	393.8	295.7	248.0	176.8	60.9	32.7	18.8	10.7
-5°	751.0	652.3	522.1	416.2	322.3	271.1	195.0	73.9	40.3	22.8	12.4
-7.5°	758.0	655.7	530.8	434.0	347.4	292.3	209.7	85.8	47.4	26.5	13.9
-10°	758.0	648.4	528.0	433.7	353.5	301.2	218.5	96.3	53.6	29.8	15.3
-12.5°	752.7	636.2	522.6	430.4	354.6	298.8	212.1	103.2	59.0	32.5	16.5
-15°	741.5	618.9	514.9	424.2	353.9	294.8	204.2	107.7	63.0	34.8	17.3
-17.5°	718.7	596.8	505.0	414.8	351.2	289.3	195.1	110.7	66.1	36.6	18.3
-20°	665.1	564.8	493.0	402.4	346.5	282.4	185.3	112.1	67.9	37.7	19.2



REPORT NUMBER: P701352 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	608.8	528.0	462.5	394.4	338.5	274.1	174.9	111.8	68.5	37.9	19.8
-25°	550.9	490.4	429.5	375.7	327.2	258.6	168.9	109.8	67.8	37.3	20.0
-27.5°	504.2	452.9	397.7	357.1	308.6	243.7	165.8	108.7	66.2	35.7	19.8
-30°	462.4	418.1	374.6	337.7	289.7	222.4	160.4	105.8	64.3	34.6	19.3
-32.5°	429.6	385.9	354.1	316.2	266.4	200.9	148.8	101.0	61.1	33.9	18.8
-35°	403.4	364.0	334.0	294.8	241.3	183.9	134.6	94.4	56.4	32.6	18.2
-37.5°	377.7	347.4	310.9	270.7	216.3	165.4	121.4	84.0	50.4	30.7	17.1
-40°	359.5	328.0	290.2	243.7	193.7	145.6	107.3	74.0	46.5	28.2	15.6
-42.5°	340.4	304.7	263.9	217.3	170.5	128.8	92.5	63.4	42.1	25.8	13.8
-45°	314.4	278.1	235.1	191.1	146.8	111.2	80.3	53.1	37.2	23.2	12.2
-47.5°	285.9	246.5	206.1	164.3	126.6	93.8	67.6	47.2	32.0	20.0	11.3
-50°	251.9	215.0	177.2	140.7	106.1	79.4	55.9	40.9	27.5	16.1	10.2
-52.5°	220.8	184.3	150.3	117.5	89.1	64.5	48.5	34.4	22.7	13.7	9.0
-55°	189.1	155.0	124.2	96.4	71.8	54.5	40.6	28.4	17.5	11.8	7.7
-57.5°	157.4	126.2	99.8	75.7	58.6	45.3	33.1	22.1	14.4	9.8	7.5
-60°	125.0	99.1	75.4	60.6	48.1	36.2	25.4	16.6	11.8	8.0	7.2
-62.5°	94.2	73.3	60.5	48.8	37.5	27.0	18.2	13.3	9.0	7.7	7.0
-65°	70.8	58.3	47.1	36.4	26.4	18.7	14.1	9.8	8.1	7.4	6.8
-67.5°	52.7	42.3	32.6	23.5	18.3	14.2	9.9	8.5	7.8	7.1	6.8
-70°	33.9	25.4	20.6	17.1	13.3	10.0	8.8	8.0	7.4	7.0	6.8
-72.5°	20.7	17.8	14.8	11.8	10.4	9.2	8.3	7.6	7.2	6.9	6.7
-75°	14.1	12.6	11.4	10.2	9.1	8.3	7.7	7.2	6.9	6.7	6.5
-77.5°	11.2	10.2	9.3	8.6	8.0	7.5	7.1	6.8	6.6	6.4	6.1
-80°	8.8	8.3	7.8	7.3	7.0	6.7	6.5	6.4	6.2	6.0	5.8
-82.5°	6.8	6.6	6.5	6.4	6.3	6.1	6.0	5.9	5.8	5.6	5.5
-85°	5.5	5.5	5.6	5.8	5.7	5.6	5.5	5.4	5.3	5.3	5.2
-87.5°	4.7	4.9	5.0	5.1	5.1	5.0	5.0	5.0	4.9	4.9	4.8
-90°	3.4	3.4	3.4	3.4	3.7	4.0	4.2	4.5	4.5	4.5	4.5



REPORT NUMBER: P701352 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.8	4.6	4.5	4.5	4.5	4.5	4.5
75°	5.1	4.8	4.5	4.5	4.5	4.5	4.5
72.5°	5.4	5.0	4.7	4.5	4.5	4.5	4.5
70°	5.6	5.3	4.9	4.5	4.5	4.5	4.5
67.5°	5.6	5.5	5.1	4.7	4.5	4.5	4.5
65°	5.6	5.6	5.3	4.8	4.5	4.5	4.5
62.5°	5.6	5.6	5.4	4.9	4.5	4.5	4.5
60°	5.6	5.6	5.6	5.0	4.5	4.5	4.5
57.5°	5.6	5.6	5.6	5.2	4.6	4.5	4.5
55°	5.6	5.6	5.6	5.3	4.7	4.5	4.5
52.5°	5.6	5.6	5.6	5.4	4.7	4.5	4.5
50°	5.6	5.6	5.6	5.5	4.8	4.5	4.5
47.5°	5.6	5.6	5.6	5.6	4.9	4.5	4.5
45°	5.6	5.6	5.6	5.6	5.0	4.5	4.5
42.5°	5.6	5.6	5.6	5.6	5.0	4.5	4.5
40°	5.6	5.6	5.6	5.6	5.1	4.5	4.5
37.5°	5.6	5.6	5.6	5.6	5.1	4.5	4.5
35°	5.6	5.6	5.6	5.6	5.2	4.5	4.5
32.5°	5.6	5.6	5.6	5.6	5.3	4.5	4.5
30°	5.7	5.6	5.6	5.6	5.3	4.5	4.5
27.5°	5.9	5.6	5.6	5.6	5.4	4.5	4.5
25°	6.0	5.6	5.6	5.6	5.4	4.5	4.5
22.5°	6.1	5.6	5.6	5.6	5.4	4.5	4.5
20°	6.3	5.7	5.6	5.6	5.5	4.5	4.5
17.5°	6.4	5.8	5.6	5.6	5.5	4.5	4.5
15°	6.5	5.9	5.6	5.6	5.5	4.5	4.5
12.5°	6.6	6.0	5.6	5.6	5.5	4.5	4.5
10°	6.6	6.2	5.6	5.6	5.6	4.5	4.5
7.5°	6.7	6.3	5.6	5.6	5.6	4.5	4.5
5°	6.7	6.4	5.6	5.6	5.6	4.5	4.5
2.5°	6.7	6.6	5.6	5.6	5.6	4.5	4.5
0°	6.7	6.7	5.6	5.6	5.6	4.5	4.5
-2.5°	7.3	6.7	5.6	5.6	5.6	4.5	4.5
-5°	7.9	6.7	5.6	5.6	5.6	4.5	4.5
-7.5°	8.4	6.7	5.6	5.6	5.6	4.5	4.5
-10°	8.9	6.6	5.6	5.6	5.6	4.5	4.5
-12.5°	9.3	6.6	5.6	5.6	5.5	4.5	4.5
-15°	9.5	6.5	5.6	5.6	5.5	4.5	4.5
-17.5°	9.7	6.4	5.6	5.6	5.5	4.5	4.5
-20°	9.9	6.4	5.6	5.6	5.5	4.5	4.5



REPORT NUMBER: P701352 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	10.3	6.3	5.6	5.6	5.4	4.5	4.5
-25°	10.5	6.4	5.6	5.6	5.4	4.5	4.5
-27.5°	10.4	6.5	5.6	5.6	5.4	4.5	4.5
-30°	10.1	6.5	5.6	5.6	5.3	4.5	4.5
-32.5°	9.6	6.4	5.7	5.6	5.3	4.5	4.5
-35°	9.3	6.3	5.7	5.6	5.2	4.5	4.5
-37.5°	9.1	6.2	5.7	5.6	5.1	4.5	4.5
-40°	8.8	6.2	5.8	5.6	5.1	4.5	4.5
-42.5°	8.4	6.2	5.8	5.6	5.0	4.5	4.5
-45°	7.8	6.3	5.8	5.6	5.0	4.5	4.5
-47.5°	7.1	6.2	5.9	5.7	4.9	4.5	4.5
-50°	6.9	6.2	5.9	5.6	4.8	4.5	4.5
-52.5°	6.9	6.2	5.9	5.5	4.7	4.5	4.5
-55°	6.7	6.2	6.0	5.4	4.7	4.5	4.5
-57.5°	6.6	6.2	6.0	5.3	4.6	4.5	4.5
-60°	6.5	6.2	6.0	5.2	4.5	4.5	4.5
-62.5°	6.5	6.3	5.9	5.1	4.5	4.5	4.5
-65°	6.6	6.3	5.7	5.0	4.5	4.5	4.5
-67.5°	6.6	6.2	5.5	4.9	4.5	4.5	4.5
-70°	6.6	6.0	5.4	4.8	4.5	4.5	4.5
-72.5°	6.4	5.8	5.2	4.7	4.5	4.5	4.5
-75°	6.1	5.6	5.0	4.7	4.5	4.5	4.5
-77.5°	5.9	5.4	5.0	4.7	4.5	4.5	4.5
-80°	5.6	5.2	4.9	4.6	4.5	4.5	4.5
-82.5°	5.3	5.0	4.8	4.6	4.5	4.5	4.5
-85°	5.1	4.9	4.7	4.6	4.5	4.5	4.5
-87.5°	4.8	4.7	4.6	4.5	4.5	4.5	4.5
-90°	4.5	4.5	4.5	4.5	4.5	4.5	4.5

(END OF REPORT)

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

Scaled Data Report



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

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

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

Scaled Data Report

