

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: P701333 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-70-5S-CV5-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701333 (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: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-70-5S-CV5-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

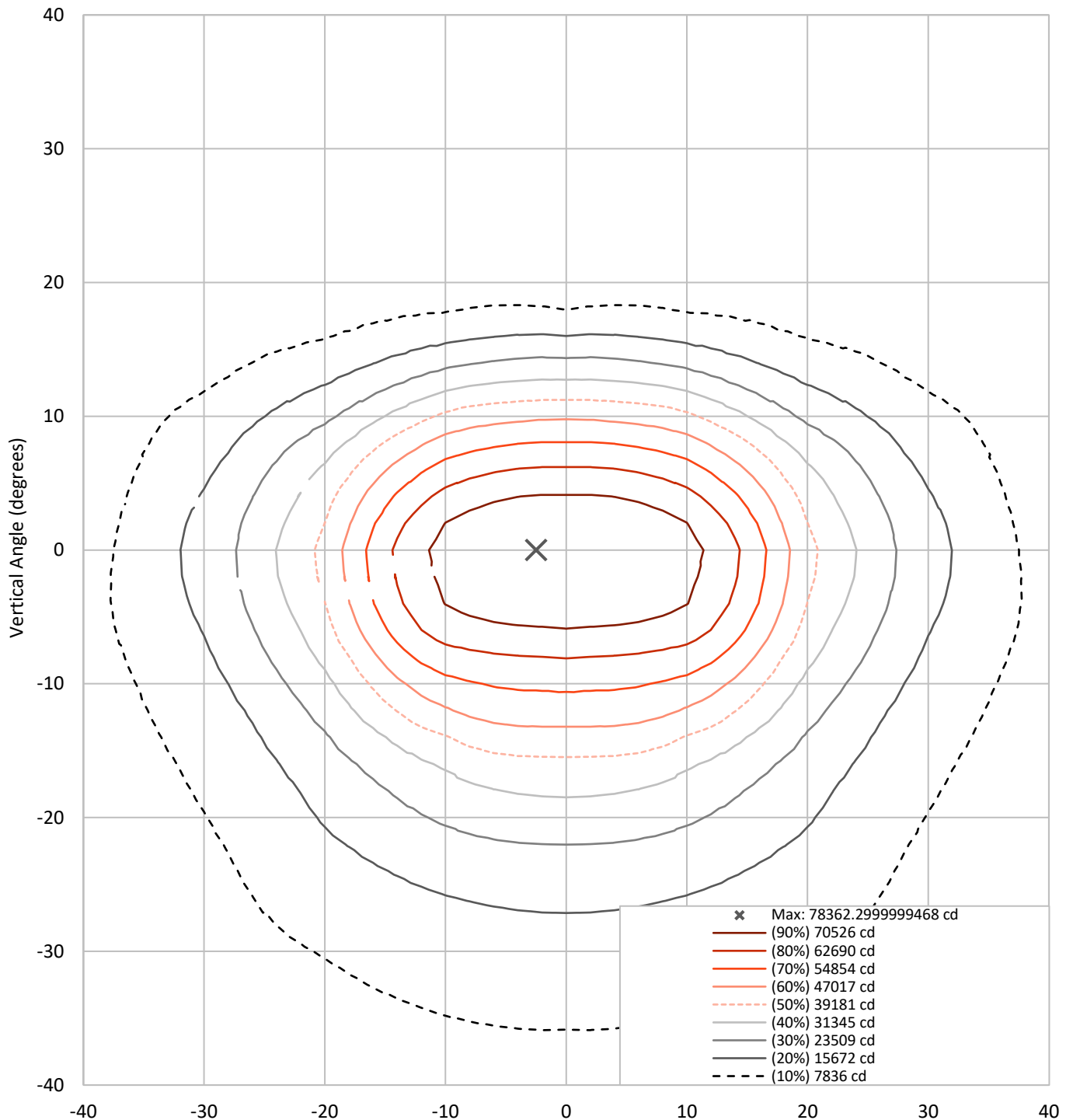
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 4V
Luminaire Lumens:	31051.5 lumens	Max Intensity:	78362.3 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	90.2 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:	15389.8 lumens	Field Lumens:	27835.3 lumens
Beam Efficiency:	49.6%	Field Efficiency:	89.6%

Input Watts (W): 344.2
Input Voltage (V): NR
Input Current (A_{in}): 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





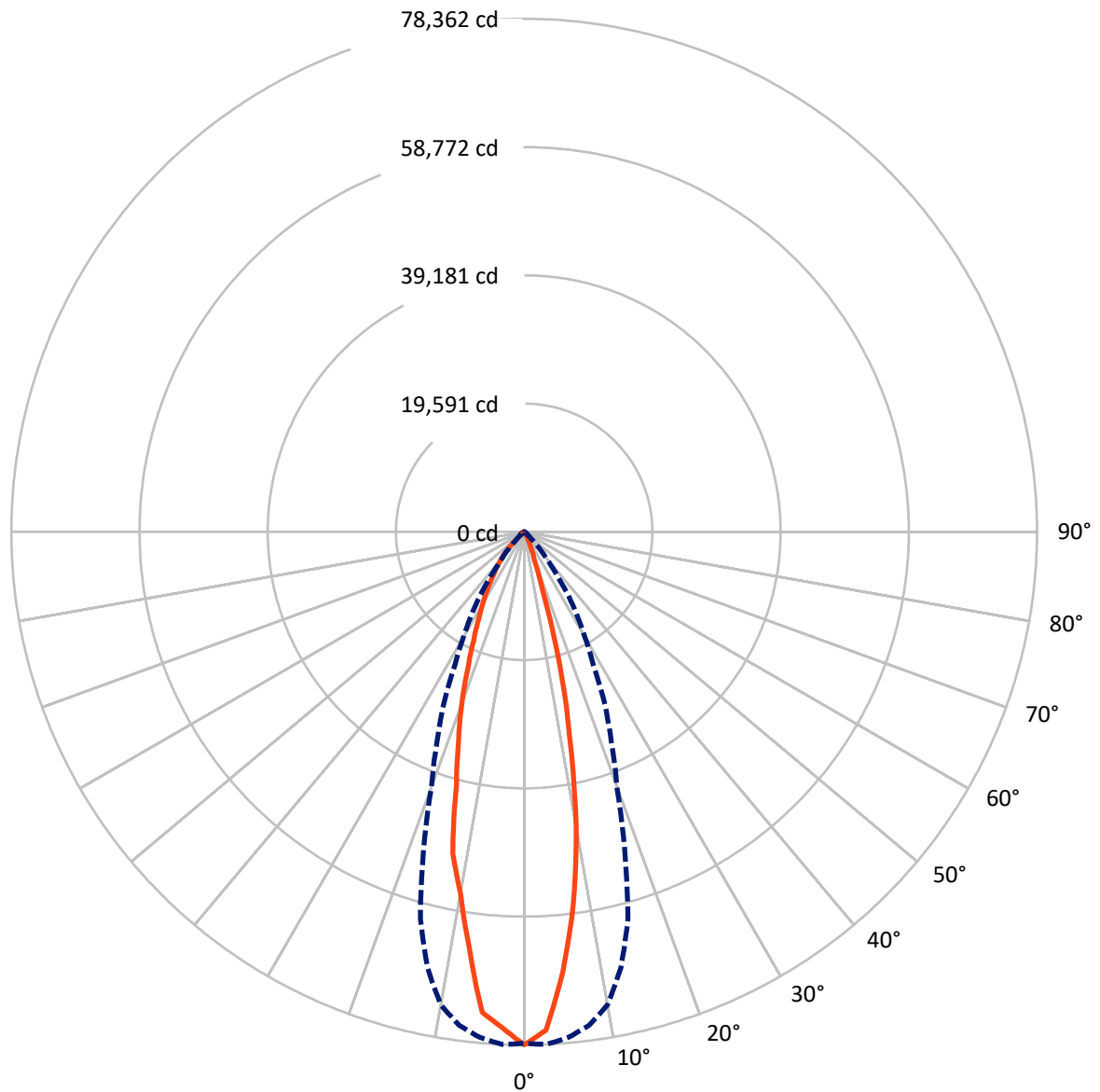
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Lumen Table

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	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.1	0.1	0.1
50		0.1	0.2	0.4	0.5	0.2	0.2	0.1	0.1	0.2	0.2	0.5	0.4	0.2	0.1	
40	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.1
30		0.1	0.3	0.5	1.2	2.6	4.0	5.5	5.5	4.0	2.6	1.2	0.5	0.3	0.1	
20	0.2	0.2	0.8	2.2	10.0	22.9	43.0	61.0	61.0	43.0	22.9	10.0	2.2	0.8	0.2	0.2
10		0.5	3.0	13.6	78.9	209.6	430.7	637.6	637.6	430.7	209.6	78.9	13.6	3.0	0.5	
0	0.2	1.0	6.6	40.9	230.9	657.7	1413.6	1947.3	1947.3	1413.6	657.7	230.9	40.9	6.6	1.0	0.2
-10		1.3	8.0	50.6	263.7	719.5	1580.3	2099.4	2099.4	1580.3	719.5	263.7	50.6	8.0	1.3	
-20	0.2	1.4	7.2	32.4	167.6	432.3	876.0	1219.7	1219.7	876.0	432.3	167.6	32.4	7.2	1.4	0.2
-30		1.3	6.0	15.1	88.2	247.0	431.7	558.7	558.7	431.7	247.0	88.2	15.1	6.0	1.3	
-40	0.2	1.1	4.5	9.9	29.5	112.4	200.6	255.6	255.6	200.6	112.4	29.5	9.9	4.5	1.1	0.2
-50		0.7	2.8	7.3	13.3	24.2	53.0	77.9	77.9	53.0	24.2	13.3	7.3	2.8	0.7	
-60	0.1	0.3	1.4	3.9	7.8	12.4	15.9	17.9	17.9	15.9	12.4	7.8	3.9	1.4	0.3	0.1
-70		0.1	0.5	1.4	2.8	4.6	6.6	7.7	7.7	6.6	4.6	2.8	1.4	0.5	0.1	
-80	0.1	0.4		1.4		3.7		5.0		3.7		1.4		0.4		0.1
-90																

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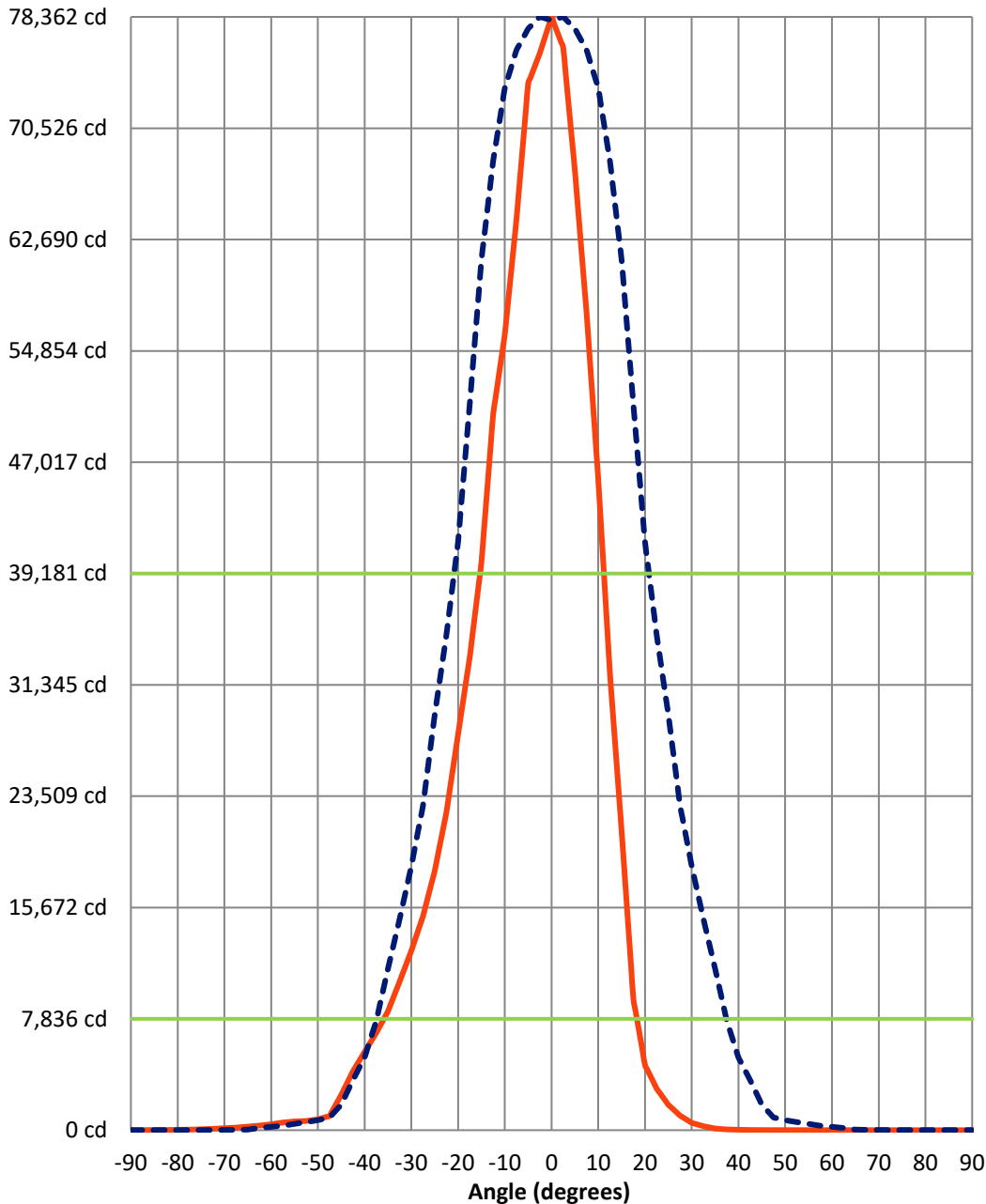
Luminous Intensity Polar Plot



— 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: 15389.8
 Efficiency: 49.6%

Field:
 H Angle: 74.8°
 V Angle: 54.1°
 Lumens: 27835.3
 Efficiency: 89.6%

Spill:
 Lumens: 3216.2
 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°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.8	4.8	4.9	4.9	5.0	5.0	5.1	5.0	5.0	4.9	4.8
85°	4.8	4.8	5.0	5.1	5.2	5.3	5.4	5.3	5.2	5.0	4.8
82.5°	4.8	4.9	5.1	5.2	5.4	5.5	5.7	5.6	5.4	5.2	5.1
80°	4.8	4.9	5.2	5.4	5.6	5.7	5.9	5.7	5.6	5.5	5.6
77.5°	4.8	4.9	5.3	5.5	5.7	5.9	5.9	5.8	5.7	5.8	5.9
75°	4.8	4.9	5.3	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	4.8	5.0	5.4	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	4.8	5.0	5.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
67.5°	4.8	5.0	5.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
65°	4.8	5.0	5.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
62.5°	4.8	5.0	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
60°	4.8	5.0	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
57.5°	4.8	5.0	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
55°	4.8	5.1	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
52.5°	4.8	5.1	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
50°	4.8	5.1	5.7	5.9	5.9	5.9	5.9	6.0	5.9	5.9	6.3
47.5°	4.8	5.1	5.7	5.9	5.9	5.9	5.9	6.1	5.9	5.9	6.7
45°	4.8	5.1	5.7	5.9	5.9	5.9	6.0	6.2	6.0	6.2	7.0
42.5°	4.8	5.1	5.7	5.9	5.9	5.9	6.1	6.3	6.2	6.6	7.5
40°	4.8	5.1	5.7	5.9	5.9	5.9	6.3	6.5	6.4	6.9	7.9
37.5°	4.8	5.1	5.7	5.9	5.9	5.9	6.4	6.7	6.9	7.4	8.2
35°	4.8	5.1	5.7	5.9	5.9	6.0	6.6	6.9	7.3	7.9	8.4
32.5°	4.8	5.0	5.7	5.9	5.9	6.1	6.8	7.1	7.7	8.5	9.2
30°	4.8	5.0	5.8	5.9	5.9	6.2	6.9	7.4	8.1	9.1	10.1
27.5°	4.8	5.0	5.8	5.9	5.9	6.4	7.1	7.7	8.5	9.7	11.1
25°	4.8	5.0	5.8	5.9	5.9	6.5	7.4	8.1	9.0	10.5	12.3
22.5°	4.8	5.0	5.8	5.9	5.9	6.6	7.6	8.4	9.6	11.4	14.4
20°	4.8	5.0	5.8	5.9	5.9	6.7	7.8	8.7	10.1	12.4	16.9
17.5°	4.8	5.0	5.8	5.9	5.9	6.8	8.0	9.0	10.6	13.4	19.5
15°	4.8	4.9	5.8	5.9	5.9	6.9	8.0	9.2	11.1	14.4	22.3
12.5°	4.8	4.9	5.9	5.9	5.9	7.0	8.1	9.3	11.5	15.5	25.2
10°	4.8	4.9	5.9	5.9	5.9	7.0	8.2	9.4	11.9	16.9	28.5
7.5°	4.8	4.9	5.9	5.9	5.9	7.0	8.2	9.4	12.2	18.4	32.3
5°	4.8	4.8	5.9	5.9	5.9	7.1	8.3	9.5	12.6	19.8	36.0
2.5°	4.8	4.8	5.9	5.9	5.9	7.1	8.3	9.5	12.9	21.3	39.6
0°	4.8	4.8	5.9	5.9	5.9	7.1	8.3	9.5	13.1	22.6	42.8
-2.5°	4.8	4.8	5.9	5.9	6.0	7.2	8.5	10.6	16.3	28.4	52.3
-5°	4.8	4.8	5.9	5.9	6.1	7.3	8.6	11.7	19.3	33.9	61.1
-7.5°	4.8	4.9	5.9	5.9	6.2	7.4	8.7	12.6	22.1	38.9	69.1
-10°	4.8	4.9	5.9	5.9	6.3	7.5	8.8	13.4	24.5	43.4	76.1
-12.5°	4.8	4.9	5.9	5.9	6.4	7.6	8.9	14.1	26.5	47.2	81.5
-15°	4.8	4.9	5.8	5.9	6.4	7.7	9.0	14.5	28.2	50.4	85.4
-17.5°	4.8	5.0	5.8	5.9	6.5	7.7	9.1	15.2	29.6	52.7	88.1
-20°	4.8	5.0	5.8	5.9	6.5	7.8	9.3	16.0	30.5	54.1	89.4



REPORT NUMBER: P701333 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-CV5-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.8	5.0	5.8	5.9	6.5	7.8	9.9	16.6	30.7	54.5	89.1
-25°	4.8	5.0	5.8	5.9	6.5	7.8	10.3	16.8	30.3	53.7	87.3
-27.5°	4.8	5.0	5.8	5.9	6.5	7.8	10.4	16.8	29.3	52.3	86.2
-30°	4.8	5.0	5.8	5.9	6.5	7.8	10.3	16.5	28.6	51.0	83.7
-32.5°	4.8	5.0	5.7	5.9	6.4	7.7	10.0	16.4	28.2	48.8	79.7
-35°	4.8	5.1	5.7	5.9	6.3	7.5	9.8	16.1	27.3	45.6	74.0
-37.5°	4.8	5.1	5.7	5.9	6.2	7.4	9.6	15.4	26.0	41.4	66.3
-40°	4.8	5.1	5.7	5.9	6.1	7.3	9.3	14.3	24.2	38.6	59.1
-42.5°	4.8	5.1	5.7	5.9	6.1	7.1	9.0	12.9	22.4	35.1	51.3
-45°	4.8	5.1	5.7	5.9	6.2	7.0	8.5	11.6	20.3	31.2	43.5
-47.5°	4.8	5.1	5.7	6.0	6.2	6.8	7.9	10.9	17.6	26.8	38.6
-50°	4.8	5.1	5.7	6.0	6.2	6.7	7.7	10.1	14.2	22.9	33.2
-52.5°	4.8	5.1	5.7	6.0	6.3	6.5	7.5	9.2	12.3	18.9	27.5
-55°	4.8	5.1	5.7	6.0	6.3	6.5	7.3	8.2	11.0	14.6	22.6
-57.5°	4.8	5.0	5.7	6.0	6.3	6.6	7.1	8.0	9.7	12.4	17.5
-60°	4.8	5.0	5.8	6.0	6.3	6.6	6.9	7.7	8.5	10.8	13.4
-62.5°	4.8	5.0	5.7	6.0	6.3	6.6	6.9	7.4	8.2	9.3	11.6
-65°	4.8	5.0	5.6	6.0	6.2	6.7	6.9	7.2	7.9	8.6	9.8
-67.5°	4.8	5.0	5.6	5.9	6.2	6.6	7.0	7.2	7.5	8.3	9.0
-70°	4.8	5.0	5.5	5.9	6.1	6.5	7.0	7.2	7.4	7.9	8.5
-72.5°	4.8	5.0	5.4	5.8	6.0	6.3	6.8	7.1	7.3	7.6	8.1
-75°	4.8	4.9	5.3	5.7	5.9	6.1	6.5	6.8	7.1	7.3	7.7
-77.5°	4.8	4.9	5.3	5.5	5.7	6.0	6.2	6.5	6.7	7.0	7.2
-80°	4.8	4.9	5.2	5.4	5.6	5.7	5.9	6.1	6.3	6.5	6.7
-82.5°	4.8	4.9	5.1	5.2	5.4	5.5	5.7	5.8	5.9	6.1	6.2
-85°	4.8	4.8	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.6	5.7
-87.5°	4.8	4.8	4.9	4.9	5.0	5.0	5.1	5.1	5.2	5.2	5.3
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



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 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-CV5-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	5.1	5.1	5.0	4.8	4.8	4.8	4.8	4.9	5.0	5.0	4.9
80°	5.5	5.4	5.2	5.1	5.3	5.4	5.6	5.7	5.6	5.4	5.1
77.5°	5.7	5.7	5.7	5.7	5.9	5.9	5.9	5.9	5.7	5.4	5.1
75°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.1	6.2	6.1	6.0
72.5°	5.9	5.9	5.9	5.9	5.9	6.1	6.4	6.8	7.1	7.1	7.0
70°	5.9	5.9	5.9	5.9	6.0	6.4	7.0	7.6	8.0	8.2	8.7
67.5°	5.9	5.9	5.9	6.0	6.4	7.1	7.7	8.9	10.3	10.9	11.7
65°	5.9	5.9	6.0	6.4	7.0	7.9	9.1	10.8	13.9	15.7	16.4
62.5°	5.9	6.0	6.3	6.9	7.6	8.7	11.1	14.6	19.0	21.6	21.4
60°	5.9	6.0	6.6	7.4	8.3	10.2	13.5	18.2	24.1	28.5	25.7
57.5°	5.9	6.3	7.1	8.2	9.6	11.2	15.5	21.2	27.2	33.7	28.8
55°	6.1	6.7	7.8	9.3	10.7	12.2	16.3	21.4	28.0	31.6	26.8
52.5°	6.5	7.3	8.8	10.3	11.6	12.6	14.5	19.3	22.9	25.5	22.9
50°	7.0	8.2	9.7	10.9	11.9	11.8	11.3	15.1	17.9	18.8	18.6
47.5°	7.6	9.0	10.1	11.2	11.4	11.1	10.0	11.8	13.8	14.7	14.1
45°	8.2	9.5	10.5	10.9	11.1	10.7	10.3	9.8	12.0	12.4	11.8
42.5°	8.8	9.8	10.6	10.7	11.2	11.4	11.4	11.0	11.3	11.6	11.4
40°	9.1	10.2	10.8	11.8	12.0	13.0	13.7	13.6	11.6	12.8	13.0
37.5°	9.3	10.5	11.8	14.2	13.9	15.6	16.8	18.5	16.9	15.8	17.8
35°	9.6	11.0	14.9	17.8	18.0	19.0	23.2	25.2	23.9	22.6	25.0
32.5°	10.0	11.6	19.1	22.2	23.9	25.6	31.5	32.6	33.6	34.3	36.1
30°	11.0	15.4	23.9	27.0	30.8	37.2	40.3	41.3	45.6	51.4	67.3
27.5°	13.2	20.4	28.5	33.3	39.3	50.2	54.3	54.8	62.0	77.2	115.4
25°	16.0	32.4	33.4	40.5	51.6	64.7	73.1	81.3	84.0	129.8	220.8
22.5°	22.4	47.7	53.1	48.2	64.7	81.5	99.6	122.6	157.4	210.2	345.2
20°	33.7	64.5	77.6	81.0	85.1	100.7	130.2	176.6	285.5	473.4	652.7
17.5°	46.8	83.8	105.0	122.3	141.7	147.9	167.1	241.1	447.0	848.6	1318.4
15°	61.1	105.2	134.7	168.4	204.2	231.7	271.9	387.5	719.5	1366.8	2173.7
12.5°	76.3	128.1	165.9	218.4	271.4	320.6	396.0	643.0	1201.7	2099.5	3323.4
10°	91.9	152.0	198.3	271.0	341.8	413.0	524.6	935.6	1771.8	2880.3	4370.8
7.5°	108.9	175.4	230.5	324.9	414.0	507.4	655.2	1250.2	2362.2	3601.5	5278.2
5°	125.6	197.2	259.1	368.1	473.1	589.3	773.9	1569.3	2948.0	4259.4	6100.8
2.5°	141.0	217.7	286.7	407.4	521.7	649.2	839.0	1700.9	3285.3	4745.0	6911.7
0°	154.5	236.5	312.6	443.4	567.0	704.9	896.3	1796.1	3517.3	5117.3	7702.7
-2.5°	160.4	243.7	325.5	454.3	565.2	696.0	896.6	1827.7	3716.2	5559.5	8102.1
-5°	164.0	248.8	335.8	461.4	560.6	682.8	887.9	1813.7	3748.9	5661.7	7944.3
-7.5°	165.5	251.8	343.1	463.0	549.2	656.7	848.2	1681.3	3393.5	5192.9	7204.4
-10°	165.1	251.0	340.1	448.5	528.3	622.0	795.1	1506.7	2982.1	4663.7	6417.9
-12.5°	162.1	247.0	333.5	432.6	507.9	585.4	734.1	1291.8	2531.1	4090.1	5665.1
-15°	157.9	241.3	324.6	416.1	489.0	547.9	665.4	1038.1	2061.2	3575.5	5060.6
-17.5°	152.6	234.2	313.6	399.5	472.5	510.0	592.0	784.2	1640.9	3024.3	4452.0
-20°	146.6	225.7	300.7	383.5	457.3	485.1	553.0	707.0	1297.5	2410.1	3791.3



REPORT NUMBER: P701333 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-CV5-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	140.0	215.9	287.1	366.8	435.2	472.2	518.8	625.3	925.2	1737.7	3077.7
-25°	135.9	205.6	273.9	344.8	413.2	459.8	483.8	547.0	699.5	1311.2	2325.0
-27.5°	133.3	195.4	256.1	321.1	391.4	444.5	464.2	507.7	614.8	868.8	1617.3
-30°	128.6	179.7	236.7	296.9	364.9	420.1	451.9	477.4	542.0	681.1	1109.3
-32.5°	119.0	163.0	217.3	274.2	335.6	396.8	442.5	467.1	508.9	580.9	724.7
-35°	107.7	149.2	197.4	250.0	305.3	368.2	421.9	462.6	482.3	531.9	624.1
-37.5°	97.2	134.4	176.7	225.8	277.7	335.7	398.3	444.2	477.0	499.7	565.5
-40°	85.7	118.7	158.4	202.3	249.8	303.0	361.1	417.9	461.5	499.4	528.6
-42.5°	73.6	104.9	140.3	178.0	222.8	270.9	322.2	378.8	435.0	486.2	525.7
-45°	64.4	90.1	121.7	156.9	195.1	238.4	285.6	335.0	393.6	452.5	503.7
-47.5°	54.7	75.6	104.2	134.5	168.7	206.7	248.1	294.5	344.1	401.0	461.1
-50°	45.4	64.2	85.2	113.1	142.8	175.8	212.4	253.1	297.6	344.9	397.1
-52.5°	38.9	52.3	70.6	91.8	118.1	146.3	178.2	213.2	251.7	291.9	334.4
-55°	31.8	43.3	56.5	73.9	94.1	118.6	145.4	176.0	206.8	242.6	275.0
-57.5°	25.4	34.8	45.2	57.8	74.2	92.1	115.6	140.0	167.6	195.6	219.5
-60°	19.4	27.0	35.8	45.4	56.0	71.4	87.2	107.5	129.9	151.3	171.8
-62.5°	13.9	20.1	27.2	35.1	43.7	52.6	65.5	79.8	94.1	112.1	128.7
-65°	11.9	14.3	19.5	26.0	32.6	41.0	49.1	56.9	68.9	80.6	91.5
-67.5°	9.9	11.8	14.0	17.3	23.3	30.1	36.9	44.2	51.1	57.1	63.8
-70°	9.1	9.4	11.0	13.0	15.7	19.9	26.0	32.1	38.0	43.7	49.1
-72.5°	8.5	8.9	9.2	9.5	11.6	14.5	17.6	21.0	25.1	29.7	34.5
-75°	8.0	8.3	8.5	8.8	9.5	10.6	12.1	14.8	17.4	19.7	21.9
-77.5°	7.5	7.7	7.9	8.1	8.6	9.3	10.1	11.2	12.5	13.9	15.3
-80°	6.9	7.1	7.3	7.4	7.7	8.1	8.5	9.0	9.8	10.8	11.9
-82.5°	6.4	6.5	6.6	6.8	6.9	7.0	7.1	7.4	7.7	8.1	8.7
-85°	5.8	5.9	6.0	6.1	6.2	6.2	6.3	6.4	6.5	6.5	6.6
-87.5°	5.3	5.3	5.4	5.4	5.5	5.5	5.5	5.6	5.6	5.6	5.7
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



REPORT NUMBER: P701333 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-CV5-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	4.8	5.1	5.4	5.6	5.9	6.8	7.7	8.6	9.5	9.2	8.9
87.5°	4.8	4.5	4.2	3.9	3.6	3.3	3.0	2.7	2.4	2.1	1.8
85°	4.8	4.7	4.6	4.6	4.6	4.3	4.1	3.8	3.5	3.0	2.4
82.5°	4.8	4.8	4.8	4.8	4.8	4.5	4.2	3.9	3.6	3.0	2.4
80°	4.8	4.8	4.8	4.8	4.8	4.5	4.2	3.9	3.6	3.0	2.4
77.5°	5.0	5.0	5.0	4.9	4.8	4.6	4.3	3.9	3.6	3.1	2.5
75°	5.9	5.8	5.6	5.3	4.9	4.6	4.3	4.0	3.7	3.3	3.0
72.5°	6.9	6.7	6.3	6.2	5.8	5.6	5.4	5.0	4.6	4.4	4.1
70°	9.1	9.4	9.1	8.7	7.9	7.3	6.8	6.3	5.8	5.3	4.8
67.5°	12.4	12.4	11.8	10.8	9.4	8.1	7.5	6.8	6.2	5.8	5.8
65°	16.2	14.8	13.3	11.7	9.9	8.2	7.6	6.9	6.3	5.9	5.9
62.5°	19.7	16.0	12.9	10.9	9.4	8.2	7.3	6.5	5.7	5.1	5.0
60°	21.3	15.1	10.8	9.4	8.2	7.2	6.4	5.7	5.2	4.7	4.5
57.5°	21.3	14.4	9.1	7.9	6.9	6.2	5.7	5.4	5.1	4.8	4.4
55°	19.3	12.8	7.5	6.8	6.5	6.1	5.8	5.5	5.1	4.8	4.5
52.5°	15.8	11.2	8.0	6.9	6.6	6.2	5.9	5.5	5.2	4.9	4.5
50°	13.7	10.3	8.2	7.0	6.7	6.3	5.9	5.9	5.9	5.6	5.4
47.5°	11.9	9.4	8.1	7.2	7.0	7.5	7.9	8.0	7.8	7.5	7.2
45°	10.4	9.1	8.4	8.8	9.2	9.9	10.3	10.4	10.4	10.4	10.3
42.5°	10.3	10.4	11.1	12.3	12.2	13.8	14.5	12.8	14.6	15.6	14.7
40°	13.7	14.0	17.3	20.0	22.5	22.8	26.7	27.2	27.7	29.3	29.6
37.5°	20.1	23.5	33.7	41.3	44.5	44.7	50.4	51.5	49.9	56.7	58.7
35°	30.6	46.5	62.9	72.5	77.8	81.8	89.4	98.2	94.1	109.2	114.4
32.5°	55.0	84.0	114.0	112.8	122.9	150.0	160.1	176.1	192.8	218.2	246.1
30°	92.6	171.0	205.6	193.0	221.5	260.2	260.5	304.9	366.9	419.5	498.8
27.5°	208.6	296.3	341.6	361.8	383.5	432.4	492.9	549.5	707.1	814.8	928.2
25°	354.0	475.2	523.7	598.9	667.2	712.5	895.6	1029.2	1255.9	1420.3	1590.5
22.5°	570.9	731.1	831.5	899.6	1129.5	1334.0	1529.7	1820.8	2045.8	2328.0	2540.5
20°	842.4	1058.8	1427.3	1716.5	1861.0	2295.4	2649.2	2950.1	3349.2	3699.1	4010.3
17.5°	1589.5	1711.1	2481.1	3234.6	3539.1	4100.8	5118.3	5502.1	6651.2	7492.6	7947.0
15°	2878.2	3466.1	4277.1	5533.2	6926.8	8027.6	8992.0	10967.0	13159.5	15103.1	17149.3
12.5°	4551.3	5701.1	7065.9	8602.5	11113.2	13105.6	15239.6	18062.0	21603.9	24686.5	28312.9
10°	6227.4	8170.2	10056.8	12451.2	15622.6	18698.7	21772.4	26242.7	31445.4	36440.6	40759.6
7.5°	7613.2	10247.1	12803.7	16114.0	20433.8	24719.5	29015.4	34928.1	41808.9	47509.9	52410.9
5°	9023.7	12322.2	15321.3	19139.0	24223.1	29442.9	34819.0	42191.5	50319.0	56774.4	61831.0
2.5°	10318.9	14056.5	17527.9	21784.8	27446.4	32553.6	38673.1	47723.9	57408.4	64372.5	69946.9
0°	11365.0	14868.1	18576.8	22860.8	29217.9	34847.5	41405.5	51111.1	61244.6	68202.5	73346.6
-2.5°	11139.8	14683.1	18150.6	22503.2	28885.3	34068.1	40707.2	50256.5	60268.5	67337.7	71957.9
-5°	10436.9	13572.9	16686.3	20774.1	26386.3	31436.6	37938.4	47754.3	57357.9	64566.7	69882.8
-7.5°	9397.4	12060.1	14884.0	18608.8	23494.1	28325.1	33980.2	41803.0	50766.5	57287.1	61140.4
-10°	8303.1	10507.7	13152.2	16300.1	20331.9	24671.1	29367.6	35634.2	43293.3	49011.6	52667.2
-12.5°	7343.9	9254.0	11613.2	13941.3	17230.8	21095.5	25265.7	30393.8	35447.7	41477.8	44638.2
-15°	6460.3	8052.5	10079.6	12311.9	15045.4	18082.8	21071.0	24910.6	28201.7	31968.4	34705.0
-17.5°	5721.0	6992.6	8788.8	10952.1	13010.4	15625.9	18477.4	21078.4	23860.8	26579.9	28849.3
-20°	5052.9	6102.1	7633.6	9538.3	11566.2	13790.3	16306.6	18423.7	20697.4	22763.6	24538.6



REPORT NUMBER: P701333 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-CV5-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4293.6	5357.5	6543.6	8173.2	10204.2	12198.1	14061.5	15661.4	17379.5	19049.1	20309.6
-25°	3503.4	4524.4	5660.1	7198.0	8861.7	10539.5	11859.1	12985.6	14326.7	15529.8	16611.4
-27.5°	2686.3	3774.9	4999.7	6284.3	7731.4	8797.6	9908.2	10926.9	11946.1	12755.6	13669.1
-30°	1867.5	3055.3	4260.0	5475.9	6467.0	7318.2	8146.4	9080.7	10002.9	10772.2	11417.0
-32.5°	1282.5	2139.3	3354.9	4485.6	5332.8	6056.1	6695.9	7492.5	8207.2	8840.4	9404.5
-35°	770.3	1373.9	2208.6	3283.1	4210.2	4913.9	5565.5	6169.6	6703.1	7236.3	7660.6
-37.5°	659.9	793.6	1299.9	2014.4	2896.6	3748.3	4417.8	4983.2	5480.3	5890.9	6250.9
-40°	594.2	673.3	784.0	1027.8	1677.5	2327.9	3058.5	3703.0	4227.3	4613.0	4926.3
-42.5°	555.4	606.2	660.3	747.2	843.7	1152.5	1711.5	2245.5	2706.2	3133.5	3500.4
-45°	548.9	570.3	599.5	648.4	693.0	773.0	860.4	945.8	1308.2	1651.7	1933.5
-47.5°	507.7	551.5	578.2	600.2	623.5	661.4	698.3	737.8	803.7	865.6	918.7
-50°	447.7	494.9	535.3	574.8	595.5	610.8	626.1	645.7	671.4	694.9	716.5
-52.5°	374.2	419.5	464.8	506.9	539.8	570.0	597.2	609.9	619.6	628.5	635.4
-55°	308.8	344.6	380.3	418.7	456.8	492.9	524.2	544.8	563.4	579.8	593.9
-57.5°	247.2	275.1	304.2	335.4	365.7	394.9	422.7	448.1	470.7	490.3	506.8
-60°	191.5	210.3	234.6	259.4	283.0	305.4	327.9	348.4	367.0	383.3	396.0
-62.5°	143.7	159.3	177.8	195.2	210.7	227.4	248.5	266.1	280.6	292.3	302.5
-65°	103.3	116.3	131.1	145.8	160.1	174.4	189.1	203.3	216.9	227.7	235.3
-67.5°	73.3	82.5	93.0	102.1	112.8	125.3	138.7	150.9	162.0	169.6	174.3
-70°	54.0	59.4	67.0	75.7	84.7	93.0	101.5	110.0	118.4	124.3	128.7
-72.5°	39.4	44.8	50.3	55.9	62.0	68.2	74.3	80.6	86.9	90.8	93.5
-75°	23.9	27.1	31.9	36.6	41.2	45.4	49.4	53.2	56.7	58.5	59.7
-77.5°	17.1	19.3	21.7	24.2	26.7	29.2	31.7	34.2	36.7	37.8	38.7
-80°	13.1	14.3	15.7	17.1	18.6	20.1	21.6	23.2	24.8	25.0	25.1
-82.5°	9.3	10.2	11.1	12.0	12.9	13.7	14.5	15.3	16.1	16.3	16.4
-85°	6.7	7.2	7.8	8.4	9.0	9.7	10.3	11.0	11.6	11.7	11.8
-87.5°	5.7	6.0	6.3	6.7	7.0	7.4	7.7	8.0	8.3	8.3	8.3
-90°	4.8	4.5	4.2	3.9	3.6	3.3	3.0	2.7	2.4	2.1	1.8



REPORT NUMBER: P701333 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-CV5-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	8.6	8.3	8.3	8.3	8.3	8.3	8.6	8.9	9.2	9.5	8.6
87.5°	1.5	1.2	0.6	0.0	0.6	1.2	1.5	1.8	2.1	2.4	2.7
85°	1.8	1.2	1.2	1.2	1.2	1.2	1.8	2.4	3.0	3.5	3.8
82.5°	1.8	1.2	1.2	1.2	1.2	1.2	1.8	2.4	3.0	3.6	3.9
80°	1.8	1.2	1.2	1.2	1.2	1.2	1.8	2.4	3.0	3.6	3.9
77.5°	1.8	1.2	1.2	1.2	1.2	1.2	1.8	2.5	3.1	3.6	3.9
75°	2.7	2.4	1.8	1.2	1.8	2.4	2.7	3.0	3.3	3.7	4.0
72.5°	3.9	3.6	3.6	3.6	3.6	3.6	3.9	4.1	4.4	4.6	5.0
70°	4.3	3.7	3.6	3.6	3.6	3.7	4.3	4.8	5.3	5.8	6.3
67.5°	5.8	5.8	5.4	4.8	5.4	5.8	5.8	5.8	5.8	6.2	6.8
65°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.3	6.9
62.5°	4.9	4.8	4.8	4.8	4.8	4.8	4.9	5.0	5.1	5.7	6.5
60°	4.1	3.7	3.6	3.6	3.6	3.7	4.1	4.5	4.7	5.2	5.7
57.5°	4.1	3.7	3.6	3.6	3.6	3.7	4.1	4.4	4.8	5.1	5.4
55°	4.1	3.7	3.6	3.6	3.6	3.7	4.1	4.5	4.8	5.1	5.5
52.5°	4.1	3.8	4.0	4.8	4.0	3.8	4.1	4.5	4.9	5.2	5.5
50°	5.1	4.9	4.8	4.8	4.8	4.9	5.1	5.4	5.6	5.9	5.9
47.5°	6.8	6.2	5.9	5.9	5.9	6.2	6.8	7.2	7.5	7.8	8.0
45°	9.7	8.8	8.2	8.3	8.2	8.8	9.7	10.3	10.4	10.4	10.4
42.5°	14.6	14.3	14.2	14.3	14.2	14.3	14.6	14.7	15.6	14.6	12.8
40°	31.3	31.8	31.6	32.1	31.6	31.8	31.3	29.6	29.3	27.7	27.2
37.5°	59.0	57.0	54.1	54.7	54.1	57.0	59.0	58.7	56.7	49.9	51.5
35°	115.1	118.1	117.9	118.9	117.9	118.1	115.1	114.4	109.2	94.1	98.2
32.5°	266.3	280.5	280.8	286.5	280.8	280.5	266.3	246.1	218.2	192.8	176.1
30°	523.3	534.5	517.5	525.4	517.5	534.5	523.3	498.8	419.5	366.9	304.9
27.5°	987.1	1028.7	1028.3	1010.4	1028.3	1028.7	987.1	928.2	814.8	707.1	549.5
25°	1733.7	1798.0	1786.1	1765.2	1786.1	1798.0	1733.7	1590.5	1420.3	1255.9	1029.2
22.5°	2733.6	2839.7	2924.8	2869.5	2924.8	2839.7	2733.6	2540.5	2328.0	2045.8	1820.8
20°	4468.1	4498.4	4588.6	4556.2	4588.6	4498.4	4468.1	4010.3	3699.1	3349.2	2950.1
17.5°	9178.1	9507.4	9278.3	8581.1	9278.3	9507.4	9178.1	7947.0	7492.6	6651.2	5502.1
15°	18586.7	19966.8	21038.4	20450.1	21038.4	19966.8	18586.7	17149.3	15103.1	13159.5	10967.0
12.5°	30438.2	31456.5	32137.7	32187.8	32137.7	31456.5	30438.2	28312.9	24686.5	21603.9	18062.0
10°	43688.4	44588.2	45793.4	45962.9	45793.4	44588.2	43688.4	40759.6	36440.6	31445.4	26242.7
7.5°	54843.3	56667.9	57512.7	57399.3	57512.7	56667.9	54843.3	52410.9	47509.9	41808.9	34928.1
5°	64819.4	66709.8	67537.8	67675.4	67537.8	66709.8	64819.4	61831.0	56774.4	50319.0	42191.5
2.5°	73286.0	75194.6	76189.4	75916.6	76189.4	75194.6	73286.0	69946.9	64372.5	57408.4	47723.9
0°	76025.3	77528.4	78362.3	78133.4	78362.3	77528.4	76025.3	73346.6	68202.5	61244.6	51111.1
-2.5°	74284.0	75189.7	75818.2	75575.4	75818.2	75189.7	74284.0	71957.9	67337.7	60268.5	50256.5
-5°	72354.2	73428.9	73664.0	73951.7	73664.0	73428.9	72354.2	69882.8	64566.7	57357.9	47754.3
-7.5°	62606.1	63755.8	64135.5	64710.8	64135.5	63755.8	62606.1	61140.4	57287.1	50766.5	41803.0
-10°	54656.3	55945.7	56007.9	56362.7	56007.9	55945.7	54656.3	52667.2	49011.6	43293.3	35634.2
-12.5°	47997.3	49771.7	50360.5	50219.6	50360.5	49771.7	47997.3	44638.2	41477.8	35447.7	30393.8
-15°	38348.4	39864.1	39972.3	40043.2	39972.3	39864.1	38348.4	34705.0	31968.4	28201.7	24910.6
-17.5°	31257.4	32730.3	33298.1	33474.6	33298.1	32730.3	31257.4	28849.3	26579.9	23860.8	21078.4
-20°	26062.3	27158.8	27852.4	28139.7	27852.4	27158.8	26062.3	24538.6	22763.6	20697.4	18423.7



REPORT NUMBER: P701333 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-CV5-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	21411.2	22106.3	22359.8	22423.4	22359.8	22106.3	21411.2	20309.6	19049.1	17379.5	15661.4
-25°	17371.2	17923.3	18244.3	18378.3	18244.3	17923.3	17371.2	16611.4	15529.8	14326.7	12985.6
-27.5°	14261.5	14752.9	15061.9	15109.4	15061.9	14752.9	14261.5	13669.1	12755.6	11946.1	10926.9
-30°	11910.5	12342.1	12630.8	12709.4	12630.8	12342.1	11910.5	11417.0	10772.2	10002.9	9080.7
-32.5°	9869.1	10238.5	10465.0	10562.7	10465.0	10238.5	9869.1	9404.5	8840.4	8207.2	7492.5
-35°	7977.4	8225.6	8370.7	8323.2	8370.7	8225.6	7977.4	7660.6	7236.3	6703.1	6169.6
-37.5°	6539.7	6739.4	6848.2	6854.0	6848.2	6739.4	6539.7	6250.9	5890.9	5480.3	4983.2
-40°	5185.8	5388.7	5511.0	5517.9	5511.0	5388.7	5185.8	4926.3	4613.0	4227.3	3703.0
-42.5°	3792.1	3999.8	4141.7	4234.1	4141.7	3999.8	3792.1	3500.4	3133.5	2706.2	2245.5
-45°	2168.5	2348.0	2484.9	2584.2	2484.9	2348.0	2168.5	1933.5	1651.7	1308.2	945.8
-47.5°	958.4	987.5	1000.2	996.1	1000.2	987.5	958.4	918.7	865.6	803.7	737.8
-50°	736.3	753.5	762.1	761.9	762.1	753.5	736.3	716.5	694.9	671.4	645.7
-52.5°	640.9	645.2	647.8	649.0	647.8	645.2	640.9	635.4	628.5	619.6	609.9
-55°	605.4	614.5	617.9	616.9	617.9	614.5	605.4	593.9	579.8	563.4	544.8
-57.5°	520.7	532.0	539.4	543.2	539.4	532.0	520.7	506.8	490.3	470.7	448.1
-60°	405.7	412.3	416.5	418.4	416.5	412.3	405.7	396.0	383.3	367.0	348.4
-62.5°	311.6	319.2	323.0	324.5	323.0	319.2	311.6	302.5	292.3	280.6	266.1
-65°	242.0	247.6	250.6	252.0	250.6	247.6	242.0	235.3	227.7	216.9	203.3
-67.5°	177.8	180.3	181.5	181.9	181.5	180.3	177.8	174.3	169.6	162.0	150.9
-70°	132.8	136.4	138.7	140.3	138.7	136.4	132.8	128.7	124.3	118.4	110.0
-72.5°	95.8	97.6	99.0	99.8	99.0	97.6	95.8	93.5	90.8	86.9	80.6
-75°	60.7	61.3	61.7	61.8	61.7	61.3	60.7	59.7	58.5	56.7	53.2
-77.5°	39.4	40.1	40.9	41.6	40.9	40.1	39.4	38.7	37.8	36.7	34.2
-80°	25.0	24.9	25.0	25.0	25.0	24.9	25.0	25.1	25.0	24.8	23.2
-82.5°	16.5	16.5	16.6	16.6	16.6	16.5	16.5	16.4	16.3	16.1	15.3
-85°	11.8	11.9	11.9	11.9	11.9	11.9	11.8	11.8	11.7	11.6	11.0
-87.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.0
-90°	1.5	1.2	0.6	0.0	0.6	1.2	1.5	1.8	2.1	2.4	2.7



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 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-CV5-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	7.7	6.8	5.9	5.6	5.4	5.1	4.8	4.8	4.8	4.8	4.8
87.5°	3.0	3.3	3.6	3.9	4.2	4.5	4.8	4.8	4.8	4.8	4.8
85°	4.1	4.3	4.6	4.6	4.6	4.7	4.8	4.8	4.8	4.8	4.8
82.5°	4.2	4.5	4.8	4.8	4.8	4.8	4.8	4.9	5.0	5.0	4.9
80°	4.2	4.5	4.8	4.8	4.8	4.8	4.8	5.1	5.4	5.6	5.7
77.5°	4.3	4.6	4.8	4.9	5.0	5.0	5.0	5.1	5.4	5.7	5.9
75°	4.3	4.6	4.9	5.3	5.6	5.8	5.9	6.0	6.1	6.2	6.1
72.5°	5.4	5.6	5.8	6.2	6.3	6.7	6.9	7.0	7.1	7.1	6.8
70°	6.8	7.3	7.9	8.7	9.1	9.4	9.1	8.7	8.2	8.0	7.6
67.5°	7.5	8.1	9.4	10.8	11.8	12.4	12.4	11.7	10.9	10.3	8.9
65°	7.6	8.2	9.9	11.7	13.3	14.8	16.2	16.4	15.7	13.9	10.8
62.5°	7.3	8.2	9.4	10.9	12.9	16.0	19.7	21.4	21.6	19.0	14.6
60°	6.4	7.2	8.2	9.4	10.8	15.1	21.3	25.7	28.5	24.1	18.2
57.5°	5.7	6.2	6.9	7.9	9.1	14.4	21.3	28.8	33.7	27.2	21.2
55°	5.8	6.1	6.5	6.8	7.5	12.8	19.3	26.8	31.6	28.0	21.4
52.5°	5.9	6.2	6.6	6.9	8.0	11.2	15.8	22.9	25.5	22.9	19.3
50°	5.9	6.3	6.7	7.0	8.2	10.3	13.7	18.6	18.8	17.9	15.1
47.5°	7.9	7.5	7.0	7.2	8.1	9.4	11.9	14.1	14.7	13.8	11.8
45°	10.3	9.9	9.2	8.8	8.4	9.1	10.4	11.8	12.4	12.0	9.8
42.5°	14.5	13.8	12.2	12.3	11.1	10.4	10.3	11.4	11.6	11.3	11.0
40°	26.7	22.8	22.5	20.0	17.3	14.0	13.7	13.0	12.8	11.6	13.6
37.5°	50.4	44.7	44.5	41.3	33.7	23.5	20.1	17.8	15.8	16.9	18.5
35°	89.4	81.8	77.8	72.5	62.9	46.5	30.6	25.0	22.6	23.9	25.2
32.5°	160.1	150.0	122.9	112.8	114.0	84.0	55.0	36.1	34.3	33.6	32.6
30°	260.5	260.2	221.5	193.0	205.6	171.0	92.6	67.3	51.4	45.6	41.3
27.5°	492.9	432.4	383.5	361.8	341.6	296.3	208.6	115.4	77.2	62.0	54.8
25°	895.6	712.5	667.2	598.9	523.7	475.2	354.0	220.8	129.8	84.0	81.3
22.5°	1529.7	1334.0	1129.5	899.6	831.5	731.1	570.9	345.2	210.2	157.4	122.6
20°	2649.2	2295.4	1861.0	1716.5	1427.3	1058.8	842.4	652.7	473.4	285.5	176.6
17.5°	5118.3	4100.8	3539.1	3234.6	2481.1	1711.1	1589.5	1318.4	848.6	447.0	241.1
15°	8992.0	8027.6	6926.8	5533.2	4277.1	3466.1	2878.2	2173.7	1366.8	719.5	387.5
12.5°	15239.6	13105.6	11113.2	8602.5	7065.9	5701.1	4551.3	3323.4	2099.5	1201.7	643.0
10°	21772.4	18698.7	15622.6	12451.2	10056.8	8170.2	6227.4	4370.8	2880.3	1771.8	935.6
7.5°	29015.4	24719.5	20433.8	16114.0	12803.7	10247.1	7613.2	5278.2	3601.5	2362.2	1250.2
5°	34819.0	29442.9	24223.1	19139.0	15321.3	12322.2	9023.7	6100.8	4259.4	2948.0	1569.3
2.5°	38673.1	32553.6	27446.4	21784.8	17527.9	14056.5	10318.9	6911.7	4745.0	3285.3	1700.9
0°	41405.5	34847.5	29217.9	22860.8	18576.8	14868.1	11365.0	7702.7	5117.3	3517.3	1796.1
-2.5°	40707.2	34068.1	28885.3	22503.2	18150.6	14683.1	11139.8	8102.1	5559.5	3716.2	1827.7
-5°	37938.4	31436.6	26386.3	20774.1	16686.3	13572.9	10436.9	7944.3	5661.7	3748.9	1813.7
-7.5°	33980.2	28325.1	23494.1	18608.8	14884.0	12060.1	9397.4	7204.4	5192.9	3393.5	1681.3
-10°	29367.6	24671.1	20331.9	16300.1	13152.2	10507.7	8303.1	6417.9	4663.7	2982.1	1506.7
-12.5°	25265.7	21095.5	17230.8	13941.3	11613.2	9254.0	7343.9	5665.1	4090.1	2531.1	1291.8
-15°	21071.0	18082.8	15045.4	12311.9	10079.6	8052.5	6460.3	5060.6	3575.5	2061.2	1038.1
-17.5°	18477.4	15625.9	13010.4	10952.1	8788.8	6992.6	5721.0	4452.0	3024.3	1640.9	784.2
-20°	16306.6	13790.3	11566.2	9538.3	7633.6	6102.1	5052.9	3791.3	2410.1	1297.5	707.0



REPORT NUMBER: P701333 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-CV5-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	14061.5	12198.1	10204.2	8173.2	6543.6	5357.5	4293.6	3077.7	1737.7	925.2	625.3
-25°	11859.1	10539.5	8861.7	7198.0	5660.1	4524.4	3503.4	2325.0	1311.2	699.5	547.0
-27.5°	9908.2	8797.6	7731.4	6284.3	4999.7	3774.9	2686.3	1617.3	868.8	614.8	507.7
-30°	8146.4	7318.2	6467.0	5475.9	4260.0	3055.3	1867.5	1109.3	681.1	542.0	477.4
-32.5°	6695.9	6056.1	5332.8	4485.6	3354.9	2139.3	1282.5	724.7	580.9	508.9	467.1
-35°	5565.5	4913.9	4210.2	3283.1	2208.6	1373.9	770.3	624.1	531.9	482.3	462.6
-37.5°	4417.8	3748.3	2896.6	2014.4	1299.9	793.6	659.9	565.5	499.7	477.0	444.2
-40°	3058.5	2327.9	1677.5	1027.8	784.0	673.3	594.2	528.6	499.4	461.5	417.9
-42.5°	1711.5	1152.5	843.7	747.2	660.3	606.2	555.4	525.7	486.2	435.0	378.8
-45°	860.4	773.0	693.0	648.4	599.5	570.3	548.9	503.7	452.5	393.6	335.0
-47.5°	698.3	661.4	623.5	600.2	578.2	551.5	507.7	461.1	401.0	344.1	294.5
-50°	626.1	610.8	595.5	574.8	535.3	494.9	447.7	397.1	344.9	297.6	253.1
-52.5°	597.2	570.0	539.8	506.9	464.8	419.5	374.2	334.4	291.9	251.7	213.2
-55°	524.2	492.9	456.8	418.7	380.3	344.6	308.8	275.0	242.6	206.8	176.0
-57.5°	422.7	394.9	365.7	335.4	304.2	275.1	247.2	219.5	195.6	167.6	140.0
-60°	327.9	305.4	283.0	259.4	234.6	210.3	191.5	171.8	151.3	129.9	107.5
-62.5°	248.5	227.4	210.7	195.2	177.8	159.3	143.7	128.7	112.1	94.1	79.8
-65°	189.1	174.4	160.1	145.8	131.1	116.3	103.3	91.5	80.6	68.9	56.9
-67.5°	138.7	125.3	112.8	102.1	93.0	82.5	73.3	63.8	57.1	51.1	44.2
-70°	101.5	93.0	84.7	75.7	67.0	59.4	54.0	49.1	43.7	38.0	32.1
-72.5°	74.3	68.2	62.0	55.9	50.3	44.8	39.4	34.5	29.7	25.1	21.0
-75°	49.4	45.4	41.2	36.6	31.9	27.1	23.9	21.9	19.7	17.4	14.8
-77.5°	31.7	29.2	26.7	24.2	21.7	19.3	17.1	15.3	13.9	12.5	11.2
-80°	21.6	20.1	18.6	17.1	15.7	14.3	13.1	11.9	10.8	9.8	9.0
-82.5°	14.5	13.7	12.9	12.0	11.1	10.2	9.3	8.7	8.1	7.7	7.4
-85°	10.3	9.7	9.0	8.4	7.8	7.2	6.7	6.6	6.5	6.5	6.4
-87.5°	7.7	7.4	7.0	6.7	6.3	6.0	5.7	5.7	5.6	5.6	5.6
-90°	3.0	3.3	3.6	3.9	4.2	4.5	4.8	4.8	4.8	4.8	4.8



REPORT NUMBER: P701333 (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°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9	5.0	5.0
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.0	5.2	5.3
82.5°	4.8	4.8	4.8	4.8	5.0	5.1	5.1	5.1	5.2	5.4	5.6
80°	5.6	5.4	5.3	5.1	5.2	5.4	5.5	5.6	5.5	5.6	5.7
77.5°	5.9	5.9	5.9	5.7	5.7	5.7	5.7	5.9	5.8	5.7	5.8
75°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	6.4	6.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	7.0	6.4	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
67.5°	7.7	7.1	6.4	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9
65°	9.1	7.9	7.0	6.4	6.0	5.9	5.9	5.9	5.9	5.9	5.9
62.5°	11.1	8.7	7.6	6.9	6.3	6.0	5.9	5.9	5.9	5.9	5.9
60°	13.5	10.2	8.3	7.4	6.6	6.0	5.9	5.9	5.9	5.9	5.9
57.5°	15.5	11.2	9.6	8.2	7.1	6.3	5.9	5.9	5.9	5.9	5.9
55°	16.3	12.2	10.7	9.3	7.8	6.7	6.1	5.9	5.9	5.9	5.9
52.5°	14.5	12.6	11.6	10.3	8.8	7.3	6.5	5.9	5.9	5.9	5.9
50°	11.3	11.8	11.9	10.9	9.7	8.2	7.0	6.3	5.9	5.9	6.0
47.5°	10.0	11.1	11.4	11.2	10.1	9.0	7.6	6.7	5.9	5.9	6.1
45°	10.3	10.7	11.1	10.9	10.5	9.5	8.2	7.0	6.2	6.0	6.2
42.5°	11.4	11.4	11.2	10.7	10.6	9.8	8.8	7.5	6.6	6.2	6.3
40°	13.7	13.0	12.0	11.8	10.8	10.2	9.1	7.9	6.9	6.4	6.5
37.5°	16.8	15.6	13.9	14.2	11.8	10.5	9.3	8.2	7.4	6.9	6.7
35°	23.2	19.0	18.0	17.8	14.9	11.0	9.6	8.4	7.9	7.3	6.9
32.5°	31.5	25.6	23.9	22.2	19.1	11.6	10.0	9.2	8.5	7.7	7.1
30°	40.3	37.2	30.8	27.0	23.9	15.4	11.0	10.1	9.1	8.1	7.4
27.5°	54.3	50.2	39.3	33.3	28.5	20.4	13.2	11.1	9.7	8.5	7.7
25°	73.1	64.7	51.6	40.5	33.4	32.4	16.0	12.3	10.5	9.0	8.1
22.5°	99.6	81.5	64.7	48.2	53.1	47.7	22.4	14.4	11.4	9.6	8.4
20°	130.2	100.7	85.1	81.0	77.6	64.5	33.7	16.9	12.4	10.1	8.7
17.5°	167.1	147.9	141.7	122.3	105.0	83.8	46.8	19.5	13.4	10.6	9.0
15°	271.9	231.7	204.2	168.4	134.7	105.2	61.1	22.3	14.4	11.1	9.2
12.5°	396.0	320.6	271.4	218.4	165.9	128.1	76.3	25.2	15.5	11.5	9.3
10°	524.6	413.0	341.8	271.0	198.3	152.0	91.9	28.5	16.9	11.9	9.4
7.5°	655.2	507.4	414.0	324.9	230.5	175.4	108.9	32.3	18.4	12.2	9.4
5°	773.9	589.3	473.1	368.1	259.1	197.2	125.6	36.0	19.8	12.6	9.5
2.5°	839.0	649.2	521.7	407.4	286.7	217.7	141.0	39.6	21.3	12.9	9.5
0°	896.3	704.9	567.0	443.4	312.6	236.5	154.5	42.8	22.6	13.1	9.5
-2.5°	896.6	696.0	565.2	454.3	325.5	243.7	160.4	52.3	28.4	16.3	10.6
-5°	887.9	682.8	560.6	461.4	335.8	248.8	164.0	61.1	33.9	19.3	11.7
-7.5°	848.2	656.7	549.2	463.0	343.1	251.8	165.5	69.1	38.9	22.1	12.6
-10°	795.1	622.0	528.3	448.5	340.1	251.0	165.1	76.1	43.4	24.5	13.4
-12.5°	734.1	585.4	507.9	432.6	333.5	247.0	162.1	81.5	47.2	26.5	14.1
-15°	665.4	547.9	489.0	416.1	324.6	241.3	157.9	85.4	50.4	28.2	14.5
-17.5°	592.0	510.0	472.5	399.5	313.6	234.2	152.6	88.1	52.7	29.6	15.2
-20°	553.0	485.1	457.3	383.5	300.7	225.7	146.6	89.4	54.1	30.5	16.0



REPORT NUMBER: P701333 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-CV5-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	518.8	472.2	435.2	366.8	287.1	215.9	140.0	89.1	54.5	30.7	16.6
-25°	483.8	459.8	413.2	344.8	273.9	205.6	135.9	87.3	53.7	30.3	16.8
-27.5°	464.2	444.5	391.4	321.1	256.1	195.4	133.3	86.2	52.3	29.3	16.8
-30°	451.9	420.1	364.9	296.9	236.7	179.7	128.6	83.7	51.0	28.6	16.5
-32.5°	442.5	396.8	335.6	274.2	217.3	163.0	119.0	79.7	48.8	28.2	16.4
-35°	421.9	368.2	305.3	250.0	197.4	149.2	107.7	74.0	45.6	27.3	16.1
-37.5°	398.3	335.7	277.7	225.8	176.7	134.4	97.2	66.3	41.4	26.0	15.4
-40°	361.1	303.0	249.8	202.3	158.4	118.7	85.7	59.1	38.6	24.2	14.3
-42.5°	322.2	270.9	222.8	178.0	140.3	104.9	73.6	51.3	35.1	22.4	12.9
-45°	285.6	238.4	195.1	156.9	121.7	90.1	64.4	43.5	31.2	20.3	11.6
-47.5°	248.1	206.7	168.7	134.5	104.2	75.6	54.7	38.6	26.8	17.6	10.9
-50°	212.4	175.8	142.8	113.1	85.2	64.2	45.4	33.2	22.9	14.2	10.1
-52.5°	178.2	146.3	118.1	91.8	70.6	52.3	38.9	27.5	18.9	12.3	9.2
-55°	145.4	118.6	94.1	73.9	56.5	43.3	31.8	22.6	14.6	11.0	8.2
-57.5°	115.6	92.1	74.2	57.8	45.2	34.8	25.4	17.5	12.4	9.7	8.0
-60°	87.2	71.4	56.0	45.4	35.8	27.0	19.4	13.4	10.8	8.5	7.7
-62.5°	65.5	52.6	43.7	35.1	27.2	20.1	13.9	11.6	9.3	8.2	7.4
-65°	49.1	41.0	32.6	26.0	19.5	14.3	11.9	9.8	8.6	7.9	7.2
-67.5°	36.9	30.1	23.3	17.3	14.0	11.8	9.9	9.0	8.3	7.5	7.2
-70°	26.0	19.9	15.7	13.0	11.0	9.4	9.1	8.5	7.9	7.4	7.2
-72.5°	17.6	14.5	11.6	9.5	9.2	8.9	8.5	8.1	7.6	7.3	7.1
-75°	12.1	10.6	9.5	8.8	8.5	8.3	8.0	7.7	7.3	7.1	6.8
-77.5°	10.1	9.3	8.6	8.1	7.9	7.7	7.5	7.2	7.0	6.7	6.5
-80°	8.5	8.1	7.7	7.4	7.3	7.1	6.9	6.7	6.5	6.3	6.1
-82.5°	7.1	7.0	6.9	6.8	6.6	6.5	6.4	6.2	6.1	5.9	5.8
-85°	6.3	6.2	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.6	5.5
-87.5°	5.5	5.5	5.5	5.4	5.4	5.3	5.3	5.3	5.2	5.2	5.1
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



REPORT NUMBER: P701333 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	5.1	5.0	5.0	4.9	4.9	4.8	4.8
85°	5.4	5.3	5.2	5.1	5.0	4.8	4.8
82.5°	5.7	5.5	5.4	5.2	5.1	4.9	4.8
80°	5.9	5.7	5.6	5.4	5.2	4.9	4.8
77.5°	5.9	5.9	5.7	5.5	5.3	4.9	4.8
75°	5.9	5.9	5.9	5.7	5.3	4.9	4.8
72.5°	5.9	5.9	5.9	5.8	5.4	5.0	4.8
70°	5.9	5.9	5.9	5.9	5.5	5.0	4.8
67.5°	5.9	5.9	5.9	5.9	5.6	5.0	4.8
65°	5.9	5.9	5.9	5.9	5.6	5.0	4.8
62.5°	5.9	5.9	5.9	5.9	5.7	5.0	4.8
60°	5.9	5.9	5.9	5.9	5.8	5.0	4.8
57.5°	5.9	5.9	5.9	5.9	5.7	5.0	4.8
55°	5.9	5.9	5.9	5.9	5.7	5.1	4.8
52.5°	5.9	5.9	5.9	5.9	5.7	5.1	4.8
50°	5.9	5.9	5.9	5.9	5.7	5.1	4.8
47.5°	5.9	5.9	5.9	5.9	5.7	5.1	4.8
45°	6.0	5.9	5.9	5.9	5.7	5.1	4.8
42.5°	6.1	5.9	5.9	5.9	5.7	5.1	4.8
40°	6.3	5.9	5.9	5.9	5.7	5.1	4.8
37.5°	6.4	5.9	5.9	5.9	5.7	5.1	4.8
35°	6.6	6.0	5.9	5.9	5.7	5.1	4.8
32.5°	6.8	6.1	5.9	5.9	5.7	5.0	4.8
30°	6.9	6.2	5.9	5.9	5.8	5.0	4.8
27.5°	7.1	6.4	5.9	5.9	5.8	5.0	4.8
25°	7.4	6.5	5.9	5.9	5.8	5.0	4.8
22.5°	7.6	6.6	5.9	5.9	5.8	5.0	4.8
20°	7.8	6.7	5.9	5.9	5.8	5.0	4.8
17.5°	8.0	6.8	5.9	5.9	5.8	5.0	4.8
15°	8.0	6.9	5.9	5.9	5.8	4.9	4.8
12.5°	8.1	7.0	5.9	5.9	5.9	4.9	4.8
10°	8.2	7.0	5.9	5.9	5.9	4.9	4.8
7.5°	8.2	7.0	5.9	5.9	5.9	4.9	4.8
5°	8.3	7.1	5.9	5.9	5.9	4.8	4.8
2.5°	8.3	7.1	5.9	5.9	5.9	4.8	4.8
0°	8.3	7.1	5.9	5.9	5.9	4.8	4.8
-2.5°	8.5	7.2	6.0	5.9	5.9	4.8	4.8
-5°	8.6	7.3	6.1	5.9	5.9	4.8	4.8
-7.5°	8.7	7.4	6.2	5.9	5.9	4.9	4.8
-10°	8.8	7.5	6.3	5.9	5.9	4.9	4.8
-12.5°	8.9	7.6	6.4	5.9	5.9	4.9	4.8
-15°	9.0	7.7	6.4	5.9	5.8	4.9	4.8
-17.5°	9.1	7.7	6.5	5.9	5.8	5.0	4.8
-20°	9.3	7.8	6.5	5.9	5.8	5.0	4.8



REPORT NUMBER: P701333 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-CV5-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	9.9	7.8	6.5	5.9	5.8	5.0	4.8
-25°	10.3	7.8	6.5	5.9	5.8	5.0	4.8
-27.5°	10.4	7.8	6.5	5.9	5.8	5.0	4.8
-30°	10.3	7.8	6.5	5.9	5.8	5.0	4.8
-32.5°	10.0	7.7	6.4	5.9	5.7	5.0	4.8
-35°	9.8	7.5	6.3	5.9	5.7	5.1	4.8
-37.5°	9.6	7.4	6.2	5.9	5.7	5.1	4.8
-40°	9.3	7.3	6.1	5.9	5.7	5.1	4.8
-42.5°	9.0	7.1	6.1	5.9	5.7	5.1	4.8
-45°	8.5	7.0	6.2	5.9	5.7	5.1	4.8
-47.5°	7.9	6.8	6.2	6.0	5.7	5.1	4.8
-50°	7.7	6.7	6.2	6.0	5.7	5.1	4.8
-52.5°	7.5	6.5	6.3	6.0	5.7	5.1	4.8
-55°	7.3	6.5	6.3	6.0	5.7	5.1	4.8
-57.5°	7.1	6.6	6.3	6.0	5.7	5.0	4.8
-60°	6.9	6.6	6.3	6.0	5.8	5.0	4.8
-62.5°	6.9	6.6	6.3	6.0	5.7	5.0	4.8
-65°	6.9	6.7	6.2	6.0	5.6	5.0	4.8
-67.5°	7.0	6.6	6.2	5.9	5.6	5.0	4.8
-70°	7.0	6.5	6.1	5.9	5.5	5.0	4.8
-72.5°	6.8	6.3	6.0	5.8	5.4	5.0	4.8
-75°	6.5	6.1	5.9	5.7	5.3	4.9	4.8
-77.5°	6.2	6.0	5.7	5.5	5.3	4.9	4.8
-80°	5.9	5.7	5.6	5.4	5.2	4.9	4.8
-82.5°	5.7	5.5	5.4	5.2	5.1	4.9	4.8
-85°	5.4	5.3	5.2	5.1	5.0	4.8	4.8
-87.5°	5.1	5.0	5.0	4.9	4.9	4.8	4.8
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8

(END OF REPORT)

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

Scaled Data Report



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

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

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

Scaled Data Report

