

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: P701607 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-70-2S-CV1-S**

Issue Date: 8/29/2023

Test Information

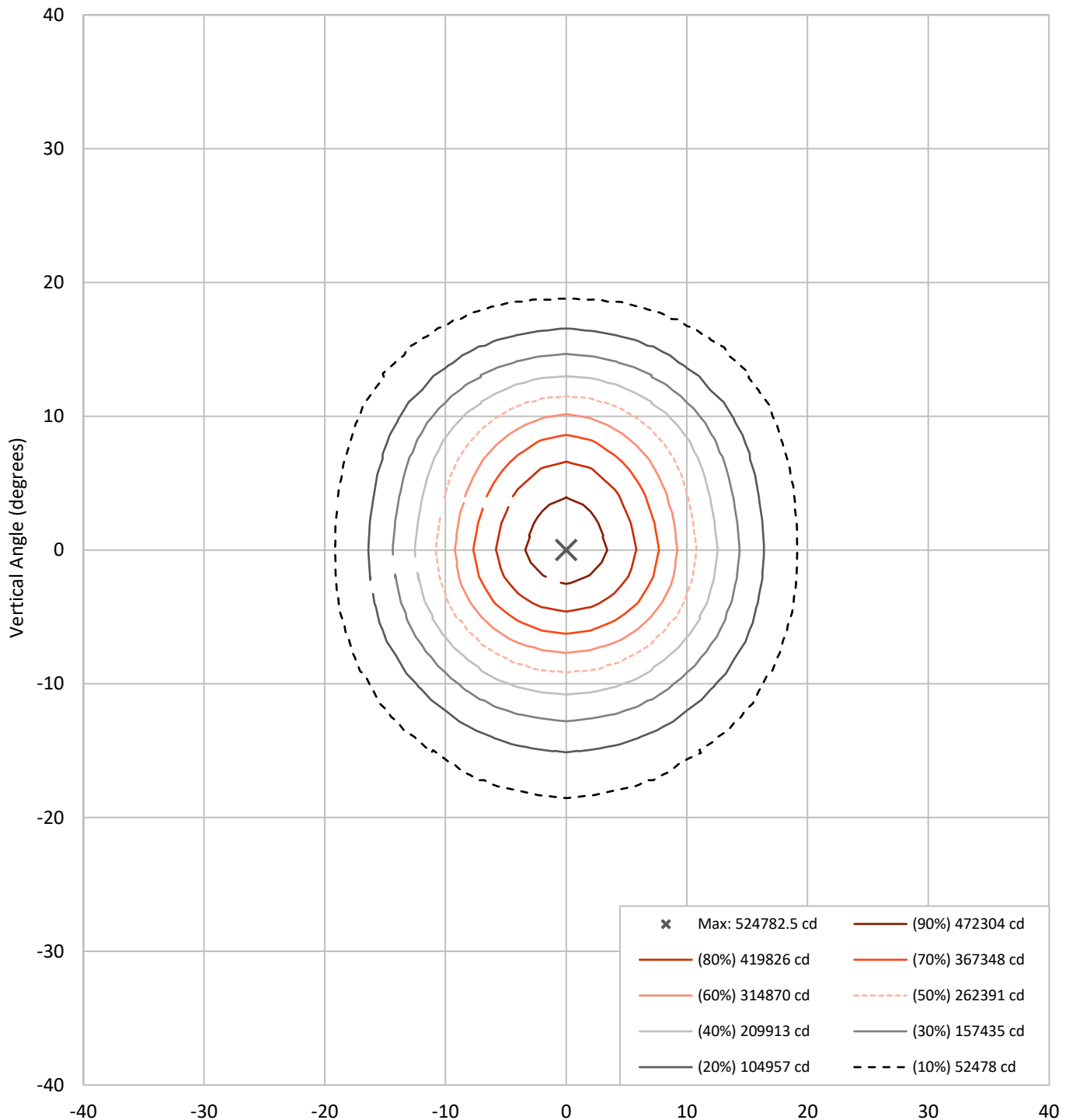
Test Method: LM-79-08
Report Number: P701607 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-13)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-40-70-2S-CV1-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 2S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	84857.8 lumens	Max Intensity:	524782.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	120.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.6°H x 20.7°V	Field Angle (10%):	38.3°H x 37.3°V
Beam Lumens:	39404.2 lumens	Field Lumens:	71736.9 lumens
Beam Efficiency:	46.4%	Field Efficiency:	84.5%
Input Watts (W):	703.6		
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





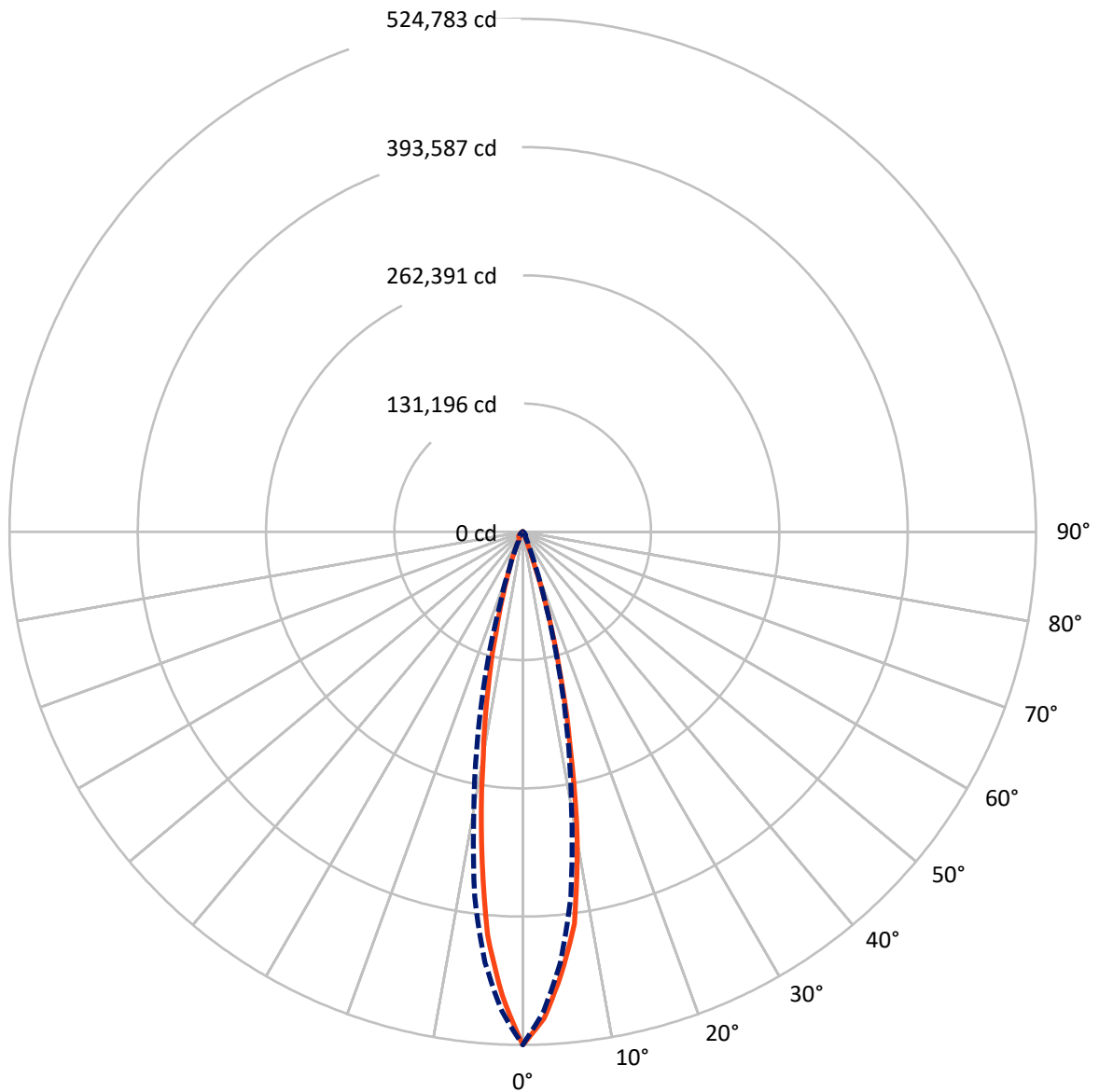
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Lumen Table

90	0.1	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.1								
80	0.1	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.1								
70	0.2	0.1	0.2	0.7	0.8	0.5	0.3	0.2	0.2	0.3	0.5	0.8	0.7	0.2	0.1	0.2			
60		0.1	0.4	0.7	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.7	0.4	0.1				
50	0.2	0.2	0.5	0.5	0.7	1.1	2.0	1.3	1.3	2.0	1.1	0.7	0.5	0.5	0.2	0.2			
40		0.3	1.1	3.0	5.6	8.2	11.3	13.6	13.6	11.3	8.2	5.6	3.0	1.1	0.3				
30	0.3	0.6	5.4	17.1	40.6	61.6	106.6	202.1	202.1	106.6	61.6	40.6	17.1	5.4	0.6	0.3			
20		1.6	11.4	45.4	103.9	194.3	1269.6	3934.1	3934.1	1269.6	194.3	103.9	45.4	11.4	1.6				
10	0.4	2.5	14.8	60.9	123.5	389.4	3731.5	11183.4	11183.4	3731.5	389.4	123.5	60.9	14.8	2.5	0.4			
0		3.1	15.8	61.1	123.2	371.2	3509.5	10171.1	10171.1	3509.5	371.2	123.2	61.1	15.8	3.1				
-10	0.7	3.6	15.1	48.8	104.2	180.6	1032.4	2989.4	2989.4	1032.4	180.6	104.2	48.8	15.1	3.6	0.7			
-20		3.7	14.3	34.7	93.3	139.3	211.7	409.2	409.2	211.7	139.3	93.3	34.7	14.3	3.7				
-30	0.6	3.2	12.3	26.1	65.1	135.3	175.7	196.4	196.4	175.7	135.3	65.1	26.1	12.3	3.2	0.6			
-40		2.3	9.2	21.4	38.5	65.2	111.5	148.6	148.6	111.5	65.2	38.5	21.4	9.2	2.3				
-50	0.4	1.1	5.5	14.2	27.4	41.5	54.1	61.2	61.2	54.1	41.5	27.4	14.2	5.5	1.1	0.4			
-60		0.5	1.8	5.8	12.1	19.4	26.6	30.8	30.8	26.6	19.4	12.1	5.8	1.8	0.5				
-70	0.3	1.4	4.1	9.5	12.8	9.5	4.1	1.4	0.3						0.3				
-80		1.4	4.1	9.5	12.8	9.5	4.1	1.4	0.3										
-90	0.3	1.4	4.1	9.5	12.8	9.5	4.1	1.4	0.3						0.3				

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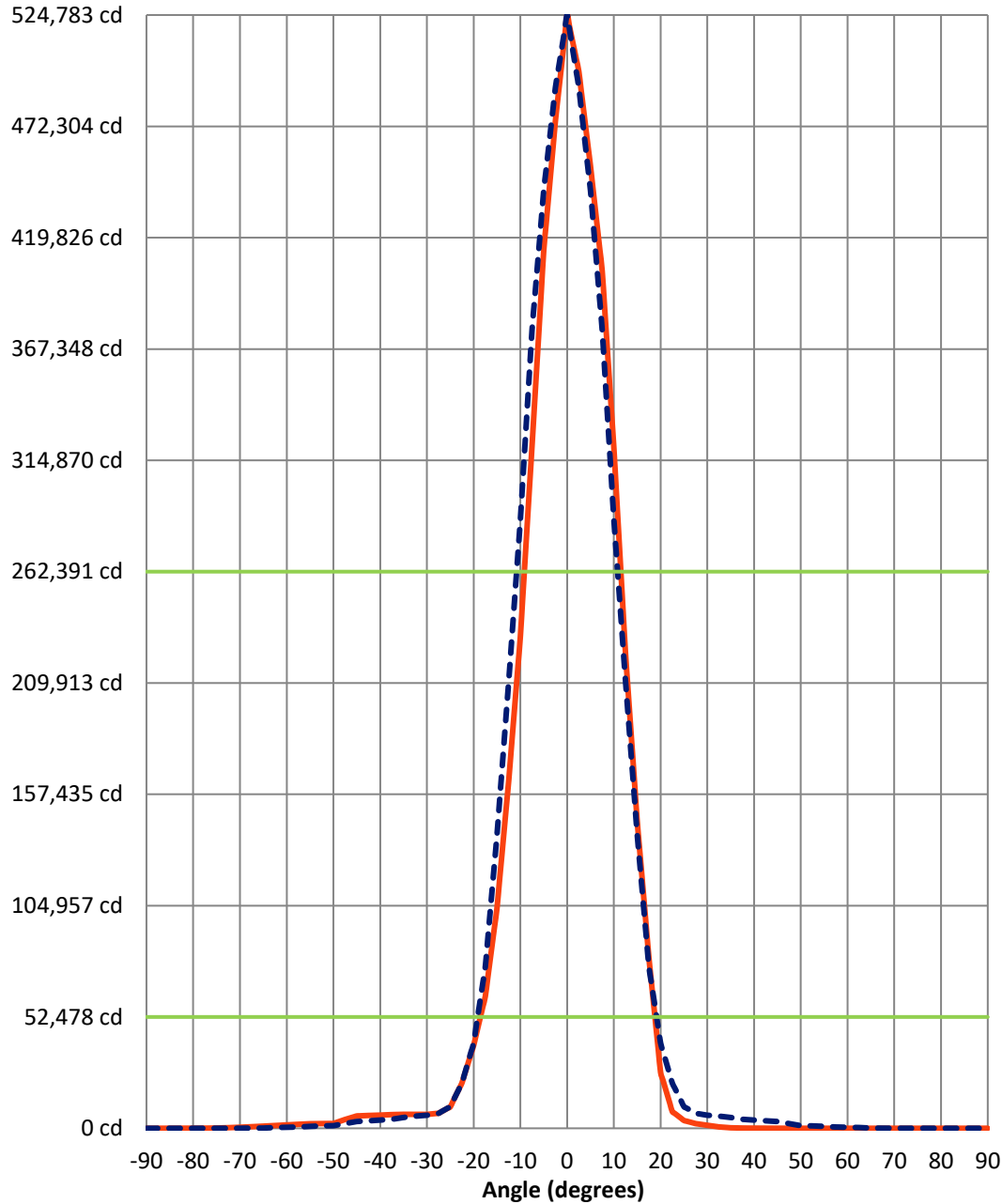
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 21.6°
 V Angle: 20.7°
 Lumens: 39404.2
 Efficiency: 46.4%

Field:
 H Angle: 38.3°
 V Angle: 37.3°
 Lumens: 71736.9
 Efficiency: 84.5%

Spill:
 Lumens: 13120.9
 Efficiency: 15.5%

- 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°	6.2	7.3	8.3	8.8	9.4	9.9	10.4	10.9	11.5	12.0	12.5
87.5°	6.2	6.2	6.2	5.8	5.4	5.0	4.7	4.7	4.5	4.4	4.2
85°	6.2	6.3	6.2	5.8	5.6	5.4	5.2	5.1	4.9	4.6	4.2
82.5°	6.2	6.3	6.2	5.9	5.7	5.7	5.8	5.6	5.3	4.9	4.8
80°	6.2	6.4	6.2	6.0	5.9	6.0	6.2	5.8	5.6	5.5	5.6
77.5°	6.2	6.4	6.2	6.0	6.1	6.2	6.2	6.0	5.9	6.1	6.2
75°	6.2	6.5	6.2	6.1	6.2	6.4	6.3	6.1	6.2	6.2	6.2
72.5°	6.2	6.5	6.3	6.2	6.4	6.5	6.3	6.2	6.2	6.2	6.2
70°	6.2	6.6	6.3	6.2	6.6	6.7	6.4	6.2	6.2	6.2	6.3
67.5°	6.2	6.6	6.3	6.4	6.8	6.8	6.4	6.2	6.2	6.5	6.5
65°	6.2	6.7	6.4	6.7	7.0	7.0	6.5	6.2	6.7	6.9	6.6
62.5°	6.2	6.7	6.4	6.9	7.3	7.0	6.5	6.6	7.1	7.2	6.7
60°	6.2	6.8	6.5	7.1	7.5	7.1	6.6	7.1	7.7	7.3	6.8
57.5°	6.2	6.9	6.7	7.3	7.6	7.1	7.1	7.7	7.9	7.4	7.5
55°	6.2	6.9	6.8	7.5	7.6	7.2	7.6	8.4	8.0	7.7	8.3
52.5°	6.2	7.0	7.0	7.8	7.7	7.3	8.1	8.5	8.1	8.4	9.2
50°	6.2	7.0	7.1	8.0	7.7	7.7	8.7	8.6	8.3	9.2	11.3
47.5°	6.2	7.1	7.3	8.2	7.8	8.2	9.1	8.7	9.0	10.0	13.2
45°	6.2	7.2	7.4	8.2	7.9	8.6	9.2	8.8	9.7	11.4	14.9
42.5°	6.2	7.2	7.6	8.3	7.9	9.0	9.3	9.3	10.5	12.7	17.2
40°	6.2	7.3	7.7	8.3	8.1	9.4	9.4	10.0	11.5	13.8	19.5
37.5°	6.2	7.4	7.8	8.4	8.4	9.7	9.5	10.7	12.7	15.5	21.7
35°	6.2	7.4	7.9	8.4	8.7	9.9	9.6	11.4	13.8	18.0	23.6
32.5°	6.2	7.5	7.9	8.5	9.0	10.0	9.9	12.2	14.9	20.5	26.1
30°	6.2	7.6	8.0	8.6	9.3	10.1	10.5	13.0	16.0	23.1	28.8
27.5°	6.2	7.6	8.1	8.7	9.5	10.2	11.1	13.9	17.5	25.7	31.7
25°	6.2	7.7	8.1	8.8	9.7	10.3	11.7	14.8	19.6	28.2	34.8
22.5°	6.2	7.8	8.2	9.0	9.9	10.4	12.3	15.6	21.6	30.7	40.5
20°	6.2	7.8	8.2	9.1	10.0	10.6	12.9	16.4	23.6	33.2	46.9
17.5°	6.2	7.9	8.2	9.3	10.2	10.8	13.5	17.1	25.6	35.7	53.9
15°	6.2	8.0	8.3	9.4	10.2	11.0	14.1	17.8	27.4	38.2	61.2
12.5°	6.2	8.0	8.3	9.6	10.3	11.2	14.6	18.4	28.9	40.7	68.8
10°	6.2	8.1	8.3	9.8	10.4	11.5	15.1	19.0	30.2	43.8	76.5
7.5°	6.2	8.1	8.3	9.9	10.4	11.7	15.5	19.6	31.2	47.0	84.2
5°	6.2	8.2	8.3	10.1	10.4	12.0	15.9	20.0	32.1	50.3	91.5
2.5°	6.2	8.3	8.3	10.3	10.4	12.3	16.3	20.4	32.7	53.3	98.1
0°	6.2	8.3	8.3	10.4	10.4	12.5	16.6	20.8	33.2	56.1	103.9
-2.5°	6.2	8.3	8.4	10.5	10.8	13.2	18.2	25.7	43.3	73.9	129.5
-5°	6.2	8.4	8.5	10.7	11.1	13.8	19.8	30.3	52.9	90.9	153.7
-7.5°	6.2	8.4	8.6	10.8	11.5	14.4	21.3	34.7	61.9	106.7	176.1
-10°	6.2	8.5	8.7	10.9	11.8	15.0	22.6	38.6	70.0	120.9	196.3
-12.5°	6.2	8.5	8.8	10.9	12.1	15.5	23.7	41.9	76.9	133.2	213.5
-15°	6.2	8.5	8.8	11.0	12.4	16.0	24.6	44.5	83.7	143.7	227.5
-17.5°	6.2	8.5	8.9	11.1	12.7	16.4	25.3	47.6	90.4	152.4	238.1
-20°	6.2	8.5	9.0	11.1	12.9	16.7	26.1	50.6	95.4	159.2	244.9



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.2	8.5	9.1	11.1	13.1	16.9	27.1	52.5	98.6	164.1	247.8
-25°	6.2	8.5	9.2	11.1	13.3	17.2	27.5	52.9	99.9	166.8	246.5
-27.5°	6.2	8.5	9.3	11.1	13.4	17.4	27.3	52.0	99.0	167.7	248.4
-30°	6.2	8.5	9.4	11.1	13.5	17.5	26.4	49.6	97.5	166.5	247.8
-32.5°	6.2	8.5	9.4	11.1	13.6	17.5	24.9	48.1	94.7	162.3	244.5
-35°	6.2	8.5	9.5	11.1	13.7	17.3	24.2	46.3	89.6	155.2	238.4
-37.5°	6.2	8.5	9.6	11.0	13.8	17.2	24.0	43.4	82.4	144.9	223.7
-40°	6.2	8.5	9.7	11.0	13.9	17.3	23.6	39.4	72.8	133.9	205.4
-42.5°	6.2	8.5	9.7	10.9	13.8	17.3	23.0	34.4	65.3	118.7	184.2
-45°	6.2	8.4	9.8	10.9	13.8	17.2	22.1	30.5	58.2	101.2	160.9
-47.5°	6.2	8.4	9.9	10.8	13.7	17.1	21.1	29.3	49.6	82.0	138.8
-50°	6.2	8.4	9.9	10.8	13.6	16.9	20.8	27.8	39.4	70.1	114.6
-52.5°	6.2	8.3	10.0	10.9	13.4	16.7	20.5	26.1	34.6	57.3	89.4
-55°	6.2	8.3	10.0	11.0	13.2	16.4	20.1	24.3	32.0	43.4	73.4
-57.5°	6.2	8.2	10.1	11.0	12.9	16.1	19.6	23.6	29.3	37.5	56.1
-60°	6.2	8.2	10.1	11.0	12.7	15.7	19.1	22.9	26.7	33.9	42.4
-62.5°	6.2	8.1	10.0	11.0	12.6	15.2	18.5	22.0	25.6	30.1	37.9
-65°	6.2	8.0	9.9	11.0	12.4	14.7	17.8	21.0	24.4	28.1	33.0
-67.5°	6.2	8.0	9.7	10.9	12.2	14.2	17.0	20.0	23.1	26.5	30.2
-70°	6.2	7.9	9.6	10.9	12.0	13.8	16.2	18.9	21.6	24.7	28.1
-72.5°	6.2	7.8	9.5	10.6	11.7	13.3	15.4	17.7	20.2	22.9	25.9
-75°	6.2	7.8	9.3	10.4	11.4	12.7	14.5	16.5	18.6	21.0	23.6
-77.5°	6.2	7.7	9.2	10.1	11.1	12.1	13.6	15.4	17.3	19.1	21.2
-80°	6.2	7.6	9.0	9.9	10.8	11.6	12.6	14.2	15.9	17.6	19.3
-82.5°	6.2	7.5	8.8	9.6	10.4	11.2	12.0	13.2	14.6	16.1	17.6
-85°	6.2	7.4	8.7	9.4	10.1	10.8	11.5	12.5	13.5	14.7	15.9
-87.5°	6.2	7.3	8.5	9.1	9.7	10.3	10.9	11.7	12.5	13.3	14.2
-90°	6.2	6.2	6.2	5.7	5.2	4.7	4.2	4.2	4.2	4.2	4.2



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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°	12.5	12.5	12.5	12.5	13.0	13.5	14.0	14.5	15.0	15.6	16.1
87.5°	3.9	3.7	3.5	3.3	3.1	2.8	2.5	2.1	2.1	2.1	2.1
85°	4.2	4.2	4.2	4.2	3.7	3.2	2.6	2.1	2.1	2.1	2.1
82.5°	4.8	4.7	4.5	4.2	3.7	3.2	2.7	2.4	2.4	2.4	2.3
80°	5.5	5.3	4.8	4.3	4.0	3.8	3.7	3.8	3.7	3.4	3.1
77.5°	5.8	5.3	4.8	4.3	4.3	4.6	4.9	5.2	5.2	5.0	4.7
75°	5.9	5.4	5.1	5.1	5.5	5.9	6.2	6.2	6.0	5.9	5.9
72.5°	6.0	5.8	5.8	6.2	6.2	6.2	6.2	6.2	7.9	10.2	11.8
70°	6.1	6.2	6.2	6.2	6.2	6.8	9.7	13.8	18.1	20.3	22.5
67.5°	6.2	6.2	6.2	6.5	8.0	11.1	15.8	24.8	34.3	36.7	36.3
65°	6.2	6.2	7.0	8.4	10.2	17.9	27.6	38.9	47.2	45.9	42.9
62.5°	6.2	7.1	8.5	11.5	17.7	26.8	35.7	43.7	51.7	50.3	43.3
60°	7.1	8.1	11.6	17.7	24.5	31.1	39.5	44.7	50.0	51.2	39.2
57.5°	8.0	10.6	16.3	22.7	28.5	33.3	36.5	41.1	42.9	41.7	30.6
55°	9.8	14.0	20.2	26.3	30.4	29.1	31.1	32.6	32.0	29.6	21.7
52.5°	12.7	17.3	23.4	28.5	29.0	26.3	24.6	24.8	22.9	19.5	16.9
50°	15.3	20.5	26.2	29.1	27.8	23.6	19.6	19.0	17.7	16.0	14.5
47.5°	18.0	23.7	28.2	29.7	25.7	22.0	18.1	16.8	15.9	16.4	15.4
45°	20.8	26.1	30.6	28.1	24.5	21.5	20.0	16.5	18.7	19.9	20.7
42.5°	23.5	28.2	30.2	26.8	24.8	24.8	24.5	23.7	24.8	29.9	32.9
40°	25.4	30.2	30.1	29.4	27.2	31.3	35.1	38.2	38.4	45.1	50.4
37.5°	27.1	31.0	32.7	36.9	35.0	42.5	49.0	74.9	76.0	62.8	85.2
35°	28.8	32.6	43.1	54.8	59.6	58.0	94.6	128.8	137.2	123.4	146.4
32.5°	30.5	34.9	57.1	84.7	109.8	111.5	153.5	207.9	236.5	246.1	258.8
30°	33.8	48.0	78.7	122.4	182.6	231.8	251.8	310.4	363.1	468.8	542.7
27.5°	39.7	64.9	114.8	189.6	282.0	375.0	406.9	447.6	585.8	773.1	958.3
25°	47.0	100.8	156.0	278.6	419.8	523.1	563.7	618.4	879.8	1241.6	1454.4
22.5°	65.8	147.0	218.3	381.1	572.7	667.3	720.4	917.2	1317.1	1797.6	2013.2
20°	99.6	202.0	294.1	466.8	726.2	810.6	870.0	1279.7	1861.6	2318.2	2656.3
17.5°	138.6	257.1	369.4	557.0	792.7	919.6	1043.9	1679.8	2432.3	2833.7	3232.0
15°	181.5	311.9	434.6	637.3	852.9	985.0	1311.4	2132.5	2948.2	3339.9	3737.2
12.5°	227.0	366.0	490.7	707.9	912.3	1046.0	1554.4	2455.3	3223.9	3739.1	4215.8
10°	273.5	418.6	538.5	768.8	969.9	1102.4	1781.7	2729.7	3370.0	3828.4	4368.5
7.5°	304.9	453.0	575.7	820.4	1024.5	1154.3	1987.6	2956.0	3469.2	3873.1	4353.1
5°	329.7	466.0	590.0	857.1	1069.5	1195.2	2149.9	3134.8	3529.5	3880.0	4272.5
2.5°	349.4	474.8	601.1	885.6	1105.4	1221.3	2203.6	3189.9	3541.5	3879.8	4233.9
0°	363.6	480.0	608.8	906.0	1134.6	1242.6	2215.1	3202.1	3532.5	3871.2	4249.4
-2.5°	376.5	494.7	632.7	923.4	1135.8	1245.0	2204.2	3187.9	3572.4	3965.0	4416.6
-5°	384.4	506.6	652.3	932.2	1131.4	1243.5	2154.0	3131.1	3568.3	3966.6	4444.3
-7.5°	388.1	515.6	666.9	931.1	1115.7	1226.7	2020.8	2949.3	3428.0	3803.2	4304.0
-10°	389.4	526.6	676.4	911.4	1086.6	1198.4	1849.0	2733.4	3273.0	3624.4	4110.4
-12.5°	393.0	539.3	682.4	889.1	1057.6	1166.2	1654.6	2488.3	3104.9	3432.7	3889.2
-15°	392.7	549.0	685.4	866.1	1030.7	1130.2	1442.4	2217.7	2979.9	3396.3	3769.3
-17.5°	389.1	555.8	685.7	844.1	1007.4	1090.4	1224.0	1978.7	2876.5	3381.3	3743.3
-20°	382.4	559.7	683.6	824.5	985.8	1073.6	1182.4	1747.1	2601.5	3328.1	3732.9



REPORT NUMBER: P701607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-CV1-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	372.7	560.9	681.3	814.6	968.8	1079.0	1172.3	1493.4	2238.1	3239.7	3663.4
-25°	367.5	544.4	678.5	803.0	950.7	1085.5	1161.8	1259.4	1879.3	2795.0	3500.3
-27.5°	364.7	525.4	663.0	783.8	927.6	1083.9	1162.7	1245.3	1575.6	2287.3	3248.3
-30°	356.1	494.1	642.0	758.6	900.3	1053.3	1170.4	1235.1	1327.8	1879.9	2664.1
-32.5°	338.4	461.3	607.5	731.3	864.7	1017.6	1162.5	1234.8	1314.0	1477.7	2110.6
-35°	319.5	435.5	567.9	697.5	820.9	969.4	1111.0	1232.1	1300.6	1385.3	1668.3
-37.5°	304.6	406.4	527.5	655.9	777.8	911.2	1054.0	1187.8	1290.3	1375.7	1483.5
-40°	285.9	374.2	490.5	610.9	730.1	853.5	987.0	1121.8	1251.0	1380.7	1479.0
-42.5°	263.3	349.2	451.9	565.0	679.3	797.9	917.1	1047.1	1197.9	1361.1	1487.2
-45°	236.5	320.0	411.6	516.4	623.7	737.7	853.0	970.5	1129.5	1297.2	1455.3
-47.5°	206.3	286.5	373.7	464.0	565.3	671.5	783.8	906.7	1046.3	1206.4	1378.6
-50°	174.4	248.8	330.2	414.0	504.4	602.6	706.4	830.5	961.7	1102.1	1257.6
-52.5°	144.3	207.5	282.8	362.7	444.7	532.6	629.9	740.9	864.0	994.6	1125.3
-55°	111.8	168.6	231.5	306.3	384.8	464.0	549.1	647.6	754.6	873.7	990.8
-57.5°	86.6	128.2	182.4	244.9	318.1	394.8	470.2	550.3	643.9	745.4	844.1
-60°	65.6	94.1	134.1	187.0	245.8	314.8	387.0	459.9	535.4	610.9	695.0
-62.5°	46.4	68.5	95.0	130.0	180.2	231.6	292.0	359.1	430.2	495.0	557.0
-65°	40.6	47.1	65.2	89.8	115.7	158.2	204.0	250.9	309.6	367.7	426.8
-67.5°	34.5	40.5	46.4	55.7	77.9	100.2	122.4	162.2	203.0	240.1	279.6
-70°	31.3	34.2	39.1	44.3	49.4	58.7	78.0	97.2	115.8	137.9	169.1
-72.5°	28.5	31.0	33.7	36.6	41.1	45.6	50.0	54.2	65.3	80.5	94.8
-75°	25.8	27.7	29.9	32.3	34.8	37.5	40.5	44.3	47.8	51.2	54.7
-77.5°	23.0	24.7	26.4	28.1	29.7	31.8	34.1	36.4	38.4	40.4	42.4
-80°	20.5	21.7	23.2	24.6	25.7	26.9	28.2	29.6	30.7	31.9	33.2
-82.5°	18.4	19.2	20.1	21.1	21.9	22.5	23.1	23.9	25.0	26.0	26.9
-85°	16.3	16.6	17.0	17.5	18.4	19.1	19.8	20.4	20.9	21.5	22.0
-87.5°	14.4	14.5	14.7	14.9	15.5	16.2	16.8	17.5	17.7	18.0	18.2
-90°	3.7	3.2	2.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1



REPORT NUMBER: P701607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-CV1-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	16.6	16.6	16.6	16.6	16.6	17.1	17.7	18.2	18.7	18.7	18.7
87.5°	2.1	2.0	2.0	1.9	1.9	1.5	1.0	0.5	0.0	0.0	0.0
85°	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	2.8	2.7	2.6	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	4.5	4.1	3.6	3.0	2.3	2.1	2.1	2.1	2.1	2.1	2.1
75°	6.0	5.9	5.7	5.2	4.3	4.1	4.1	4.0	3.8	3.9	4.0
72.5°	12.6	12.5	11.7	10.8	9.3	8.6	8.4	8.1	7.5	7.3	7.0
70°	23.0	22.2	20.9	18.6	15.5	13.3	12.2	10.7	9.0	8.2	8.2
67.5°	33.1	29.7	26.8	23.6	19.4	15.9	14.0	12.2	10.5	9.7	9.3
65°	38.2	30.5	25.4	21.4	18.4	15.6	13.4	11.5	9.8	8.8	8.5
62.5°	35.1	25.4	20.1	16.8	14.2	12.3	10.8	9.3	7.8	6.9	7.2
60°	28.6	19.6	15.1	13.2	11.7	10.5	9.1	7.9	6.9	6.3	6.9
57.5°	21.9	15.7	12.4	11.5	10.4	9.0	8.0	7.7	7.5	7.6	8.0
55°	16.4	13.8	12.5	11.1	9.7	8.8	8.4	8.6	8.6	8.3	8.3
52.5°	13.9	12.8	11.3	10.1	9.8	9.9	10.2	9.8	9.6	9.6	9.8
50°	13.6	12.5	11.4	10.4	10.7	10.8	10.5	10.8	11.4	11.7	11.9
47.5°	14.7	13.9	14.6	12.3	12.8	14.4	14.4	14.7	16.6	17.4	17.7
45°	19.3	23.6	23.6	21.8	21.0	30.3	31.0	25.9	42.2	40.6	28.5
42.5°	35.8	38.0	38.1	47.7	64.6	73.6	97.6	135.7	127.1	98.7	59.7
40°	59.3	56.3	68.7	88.2	107.9	130.9	163.8	228.7	217.7	174.3	191.5
37.5°	102.3	102.3	108.3	135.4	142.9	123.0	174.9	169.0	134.6	189.4	200.3
35°	187.2	205.9	174.8	216.8	222.4	204.6	214.6	237.2	205.2	245.5	262.8
32.5°	336.1	370.9	375.4	385.7	416.7	440.4	433.7	489.1	491.8	544.1	615.7
30°	537.3	609.3	683.9	695.6	734.1	796.7	828.2	939.7	1057.8	1135.1	1277.2
27.5°	944.4	962.2	1112.3	1230.5	1183.5	1277.2	1511.8	1647.8	1873.5	2008.1	2151.0
25°	1516.9	1565.9	1777.3	1995.1	2024.1	2109.8	2450.6	2645.2	2877.8	3013.7	3308.5
22.5°	2243.3	2454.5	2687.2	2973.7	3091.2	3292.4	3623.8	3909.2	4393.8	4993.4	6285.4
20°	3052.5	3369.9	3682.7	3934.4	4176.8	4496.8	4899.9	6276.9	7908.5	12824.4	16216.2
17.5°	3745.0	4264.8	4563.8	4807.5	5111.7	5729.0	7329.6	11387.2	19212.0	30156.7	40175.1
15°	4283.5	4768.8	5249.8	5555.2	6030.5	7397.2	10653.7	20605.1	36819.2	55294.7	77651.8
12.5°	4710.4	5113.5	5517.4	5966.8	6845.2	9508.6	17793.8	33161.9	56740.1	86604.6	126239.9
10°	4941.0	5344.3	5734.1	6373.9	7999.9	12849.7	24461.0	44727.9	81733.9	128375.6	178887.8
7.5°	4939.4	5431.0	5913.1	6693.4	9176.7	16842.2	32314.8	59740.0	103511.6	161987.1	227017.0
5°	4936.7	5531.6	6036.6	6917.3	9912.8	19566.7	37189.8	68053.8	121244.2	187233.9	256865.0
2.5°	4984.6	5639.3	6116.4	7064.7	10253.8	21028.8	39894.0	74620.4	133641.6	201604.0	276010.3
0°	5097.2	5735.2	6163.2	7079.6	10213.2	21330.3	40208.5	76209.2	138412.9	210616.8	286970.4
-2.5°	5283.7	5721.4	6136.7	7019.8	10077.0	20708.0	39473.9	74823.3	132884.2	200587.6	274483.8
-5°	5171.5	5524.9	5892.4	6686.9	9408.7	18526.9	35557.3	66954.7	116545.1	177343.1	240645.4
-7.5°	4883.4	5241.6	5582.0	6267.2	8445.3	15289.0	29086.3	53786.3	92519.7	139868.8	189588.8
-10°	4620.8	4942.1	5262.5	5810.6	7216.1	11213.9	20813.8	38065.5	67550.1	103242.9	141239.2
-12.5°	4418.6	4688.5	4935.2	5302.6	6084.2	8317.1	15142.3	27946.3	45361.1	68085.1	95892.7
-15°	4240.7	4450.5	4632.0	4985.4	5566.4	6733.0	9435.3	16750.1	27601.3	41919.8	57103.7
-17.5°	4076.0	4277.3	4491.7	4761.0	5126.8	5686.8	7239.2	10316.0	16576.1	25929.5	34884.4
-20°	3991.9	4238.1	4422.4	4633.0	4943.5	5373.9	5919.4	7445.7	10025.9	15774.2	21596.8



REPORT NUMBER: P701607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-CV1-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3925.4	4160.3	4370.6	4615.0	4933.8	5273.5	5567.9	6034.1	7251.4	9056.7	12062.5
-25°	3844.5	4076.0	4387.1	4742.9	5016.8	5273.6	5423.0	5520.3	6042.6	6558.6	7709.3
-27.5°	3691.0	4057.9	4514.6	4898.8	5193.6	5352.9	5473.3	5552.0	5865.2	6172.9	6507.7
-30°	3553.8	4116.2	4609.4	5056.1	5312.6	5507.4	5664.3	5806.2	6022.6	6283.2	6405.0
-32.5°	3066.8	4100.4	4649.0	5060.1	5323.8	5553.5	5795.4	5926.5	6117.1	6307.9	6461.8
-35°	2408.8	3459.2	4606.1	4841.6	5103.3	5402.8	5693.2	5879.9	6074.0	6270.5	6451.7
-37.5°	1804.4	2590.0	3520.1	4370.9	4722.0	5028.6	5385.1	5672.6	5926.6	6141.0	6347.4
-40°	1581.6	1794.8	2479.0	3154.7	3872.2	4530.8	4883.2	5268.0	5650.3	5915.0	6150.6
-42.5°	1579.2	1660.8	1730.7	2183.5	2735.6	3302.0	3901.3	4459.9	5081.9	5517.8	5848.5
-45°	1589.2	1652.8	1717.9	1783.5	1843.8	2260.5	2697.6	3140.7	3789.7	4434.1	4991.2
-47.5°	1513.7	1636.2	1714.2	1777.1	1836.8	1895.3	1952.4	2071.9	2486.9	2926.1	3327.5
-50°	1393.6	1520.0	1636.1	1752.6	1821.0	1878.8	1941.0	2009.3	2075.7	2143.1	2188.0
-52.5°	1246.6	1370.9	1491.7	1602.3	1701.8	1799.6	1897.4	1976.8	2047.7	2116.8	2151.2
-55°	1105.8	1217.7	1327.9	1425.1	1522.2	1618.6	1715.9	1812.6	1908.7	2003.0	2051.3
-57.5°	949.6	1058.3	1161.9	1243.8	1326.2	1408.5	1496.8	1587.7	1675.4	1755.7	1798.0
-60°	783.9	877.0	965.8	1045.3	1122.5	1196.8	1271.7	1347.5	1421.6	1487.0	1525.3
-62.5°	619.1	691.0	765.0	834.2	900.0	963.5	1031.8	1097.0	1158.6	1210.6	1246.8
-65°	484.7	538.5	585.8	633.7	682.5	738.2	794.5	847.8	897.6	938.9	969.8
-67.5°	329.2	378.5	421.9	462.7	500.1	538.1	578.4	617.2	653.9	684.3	708.3
-70°	199.0	226.8	251.6	279.1	311.7	343.7	375.6	405.1	431.9	453.9	471.4
-72.5°	108.2	119.9	132.5	152.3	170.5	188.7	206.6	223.0	237.9	251.1	262.6
-75°	58.2	63.2	72.4	80.6	87.9	95.2	102.3	108.9	114.7	119.6	123.6
-77.5°	44.9	47.4	49.6	51.6	53.3	54.9	56.5	58.0	59.4	60.8	62.0
-80°	34.5	36.2	37.8	39.4	40.9	42.0	42.9	43.6	44.3	45.1	46.0
-82.5°	27.7	28.5	29.2	30.0	30.8	31.7	32.5	33.4	34.2	34.6	34.8
-85°	22.6	23.0	23.2	23.5	23.7	24.0	24.3	24.5	24.6	24.7	24.8
-87.5°	18.3	18.4	18.4	18.5	18.5	19.1	19.6	20.2	20.7	20.8	20.8
-90°	2.1	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-CV1-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.2
87.5°	0.0	0.0	1.0	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.5
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	4.1	4.2	4.2	4.2	4.2	4.2	4.1	4.0	3.9	3.8	4.0
72.5°	6.6	6.2	6.2	6.2	6.2	6.2	6.6	7.0	7.3	7.5	8.1
70°	8.2	8.2	8.3	8.3	8.3	8.2	8.2	8.2	8.2	9.0	10.7
67.5°	8.9	8.4	7.3	6.2	7.3	8.4	8.9	9.3	9.7	10.5	12.2
65°	8.4	8.3	7.4	6.2	7.4	8.3	8.4	8.5	8.8	9.8	11.5
62.5°	7.7	8.2	7.4	6.2	7.4	8.2	7.7	7.2	6.9	7.8	9.3
60°	7.5	8.1	8.3	8.3	8.3	8.1	7.5	6.9	6.3	6.9	7.9
57.5°	8.2	8.3	8.3	8.3	8.3	8.3	8.2	8.0	7.6	7.5	7.7
55°	8.3	8.3	9.1	10.4	9.1	8.3	8.3	8.3	8.3	8.6	8.6
52.5°	10.1	10.3	10.4	10.4	10.4	10.3	10.1	9.8	9.6	9.6	9.8
50°	12.2	12.3	12.5	12.5	12.5	12.3	12.2	11.9	11.7	11.4	10.8
47.5°	17.6	17.0	16.5	16.6	16.5	17.0	17.6	17.7	17.4	16.6	14.7
45°	28.9	28.9	28.8	29.1	28.8	28.9	28.9	28.5	40.6	42.2	25.9
42.5°	58.1	52.4	47.9	49.9	47.9	52.4	58.1	59.7	98.7	127.1	135.7
40°	171.0	117.5	68.1	68.6	68.1	117.5	171.0	191.5	174.3	217.7	228.7
37.5°	159.7	128.9	116.3	114.3	116.3	128.9	159.7	200.3	189.4	134.6	169.0
35°	263.7	262.1	250.5	249.4	250.5	262.1	263.7	262.8	245.5	205.2	237.2
32.5°	643.3	669.7	661.1	650.4	661.1	669.7	643.3	615.7	544.1	491.8	489.1
30°	1344.6	1403.1	1391.2	1423.4	1391.2	1403.1	1344.6	1277.2	1135.1	1057.8	939.7
27.5°	2230.2	2268.4	2228.9	2217.2	2228.9	2268.4	2230.2	2151.0	2008.1	1873.5	1647.8
25°	3510.0	3584.3	3618.5	3688.4	3618.5	3584.3	3510.0	3308.5	3013.7	2877.8	2645.2
22.5°	7891.8	8351.6	8115.5	7904.6	8115.5	8351.6	7891.8	6285.4	4993.4	4393.8	3909.2
20°	23160.1	27250.6	26949.1	26410.9	26949.1	27250.6	23160.1	16216.2	12824.4	7908.5	6276.9
17.5°	55845.7	68412.5	76238.5	80356.8	76238.5	68412.5	55845.7	40175.1	30156.7	19212.0	11387.2
15°	104184.7	125322.0	137732.7	144771.4	137732.7	125322.0	104184.7	77651.8	55294.7	36819.2	20605.1
12.5°	164344.3	197474.0	219452.4	223653.9	219452.4	197474.0	164344.3	126239.9	86604.6	56740.1	33161.9
10°	230588.1	273019.6	308013.9	320776.7	308013.9	273019.6	230588.1	178887.8	128375.6	81733.9	44727.9
7.5°	287162.6	341310.0	387777.4	404304.5	387777.4	341310.0	287162.6	227017.0	161987.1	103511.6	59740.0
5°	328301.1	400129.9	442190.5	453539.6	442190.5	400129.9	328301.1	256865.0	187233.9	121244.2	68053.8
2.5°	361788.1	429971.3	475066.2	498316.6	475066.2	429971.3	361788.1	276010.3	201604.0	133641.6	74620.4
0°	376511.7	442036.0	490670.7	524782.5	490670.7	442036.0	376511.7	286970.4	210616.8	138412.9	76209.2
-2.5°	358417.6	425425.4	460021.6	474972.8	460021.6	425425.4	358417.6	274483.8	200587.6	132884.2	74823.3
-5°	304729.9	367896.8	402668.5	413715.5	402668.5	367896.8	304729.9	240645.4	177343.1	116545.1	66954.7
-7.5°	237702.0	281464.1	311464.1	321919.6	311464.1	281464.1	237702.0	189588.8	139868.8	92519.7	53786.3
-10°	178984.4	210369.4	226445.9	231879.5	226445.9	210369.4	178984.4	141239.2	103242.9	67550.1	38065.5
-12.5°	122900.4	146527.1	156919.1	163746.3	156919.1	146527.1	122900.4	95892.7	68085.1	45361.1	27946.3
-15°	75599.4	91002.2	99185.1	103856.4	99185.1	91002.2	75599.4	57103.7	41919.8	27601.3	16750.1
-17.5°	45930.6	54303.2	59726.0	62182.9	59726.0	54303.2	45930.6	34884.4	25929.5	16576.1	10316.0
-20°	28514.9	34089.5	37255.8	39071.9	37255.8	34089.5	28514.9	21596.8	15774.2	10025.9	7445.7



REPORT NUMBER: P701607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-CV1-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	16018.8	19077.6	20792.7	21390.5	20792.7	19077.6	16018.8	12062.5	9056.7	7251.4	6034.1
-25°	8907.9	9686.4	10027.1	10107.2	10027.1	9686.4	8907.9	7709.3	6558.6	6042.6	5520.3
-27.5°	6797.9	6963.9	7069.1	7100.4	7069.1	6963.9	6797.9	6507.7	6172.9	5865.2	5552.0
-30°	6520.7	6538.1	6567.0	6562.2	6567.0	6538.1	6520.7	6405.0	6283.2	6022.6	5806.2
-32.5°	6570.3	6576.6	6582.4	6572.6	6582.4	6576.6	6570.3	6461.8	6307.9	6117.1	5926.5
-35°	6550.6	6569.4	6584.2	6591.3	6584.2	6569.4	6550.6	6451.7	6270.5	6074.0	5879.9
-37.5°	6429.5	6455.4	6468.1	6456.2	6468.1	6455.4	6429.5	6347.4	6141.0	5926.6	5672.6
-40°	6207.2	6225.9	6227.2	6217.3	6227.2	6225.9	6207.2	6150.6	5915.0	5650.3	5268.0
-42.5°	5949.3	6014.9	6045.9	6046.9	6045.9	6014.9	5949.3	5848.5	5517.8	5081.9	4459.9
-45°	5344.3	5618.2	5780.7	5820.4	5780.7	5618.2	5344.3	4991.2	4434.1	3789.7	3140.7
-47.5°	3648.2	3920.4	4097.4	4164.2	4097.4	3920.4	3648.2	3327.5	2926.1	2486.9	2071.9
-50°	2220.7	2253.7	2268.2	2265.0	2268.2	2253.7	2220.7	2188.0	2143.1	2075.7	2009.3
-52.5°	2177.6	2203.7	2219.8	2227.6	2219.8	2203.7	2177.6	2151.2	2116.8	2047.7	1976.8
-55°	2091.0	2123.7	2140.5	2144.5	2140.5	2123.7	2091.0	2051.3	2003.0	1908.7	1812.6
-57.5°	1833.5	1862.0	1878.3	1884.7	1878.3	1862.0	1833.5	1798.0	1755.7	1675.4	1587.7
-60°	1556.3	1580.2	1590.6	1591.7	1590.6	1580.2	1556.3	1525.3	1487.0	1421.6	1347.5
-62.5°	1276.9	1300.6	1308.4	1307.0	1308.4	1300.6	1276.9	1246.8	1210.6	1158.6	1097.0
-65°	995.6	1016.2	1020.2	1016.1	1020.2	1016.2	995.6	969.8	938.9	897.6	847.8
-67.5°	728.4	744.5	749.2	748.1	749.2	744.5	728.4	708.3	684.3	653.9	617.2
-70°	485.4	495.8	495.4	490.4	495.4	495.8	485.4	471.4	453.9	431.9	405.1
-72.5°	272.4	280.2	286.6	290.9	286.6	280.2	272.4	262.6	251.1	237.9	223.0
-75°	126.8	129.3	132.5	135.1	132.5	129.3	126.8	123.6	119.6	114.7	108.9
-77.5°	63.1	64.1	65.3	66.5	65.3	64.1	63.1	62.0	60.8	59.4	58.0
-80°	46.8	47.6	47.8	47.8	47.8	47.6	46.8	46.0	45.1	44.3	43.6
-82.5°	35.0	35.2	35.3	35.3	35.3	35.2	35.0	34.8	34.6	34.2	33.4
-85°	24.8	24.9	25.9	27.0	25.9	24.9	24.8	24.8	24.7	24.6	24.5
-87.5°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.7	20.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-CV1-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	17.7	17.1	16.6	16.6	16.6	16.6	16.6	16.1	15.6	15.0	14.5
87.5°	1.0	1.5	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.1
85°	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.3	2.4	2.4	2.4
80°	2.1	2.1	2.1	2.4	2.6	2.7	2.8	3.1	3.4	3.7	3.8
77.5°	2.1	2.1	2.3	3.0	3.6	4.1	4.5	4.7	5.0	5.2	5.2
75°	4.1	4.1	4.3	5.2	5.7	5.9	6.0	5.9	5.9	6.0	6.2
72.5°	8.4	8.6	9.3	10.8	11.7	12.5	12.6	11.8	10.2	7.9	6.2
70°	12.2	13.3	15.5	18.6	20.9	22.2	23.0	22.5	20.3	18.1	13.8
67.5°	14.0	15.9	19.4	23.6	26.8	29.7	33.1	36.3	36.7	34.3	24.8
65°	13.4	15.6	18.4	21.4	25.4	30.5	38.2	42.9	45.9	47.2	38.9
62.5°	10.8	12.3	14.2	16.8	20.1	25.4	35.1	43.3	50.3	51.7	43.7
60°	9.1	10.5	11.7	13.2	15.1	19.6	28.6	39.2	51.2	50.0	44.7
57.5°	8.0	9.0	10.4	11.5	12.4	15.7	21.9	30.6	41.7	42.9	41.1
55°	8.4	8.8	9.7	11.1	12.5	13.8	16.4	21.7	29.6	32.0	32.6
52.5°	10.2	9.9	9.8	10.1	11.3	12.8	13.9	16.9	19.5	22.9	24.8
50°	10.5	10.8	10.7	10.4	11.4	12.5	13.6	14.5	16.0	17.7	19.0
47.5°	14.4	14.4	12.8	12.3	14.6	13.9	14.7	15.4	16.4	15.9	16.8
45°	31.0	30.3	21.0	21.8	23.6	23.6	19.3	20.7	19.9	18.7	16.5
42.5°	97.6	73.6	64.6	47.7	38.1	38.0	35.8	32.9	29.9	24.8	23.7
40°	163.8	130.9	107.9	88.2	68.7	56.3	59.3	50.4	45.1	38.4	38.2
37.5°	174.9	123.0	142.9	135.4	108.3	102.3	102.3	85.2	62.8	76.0	74.9
35°	214.6	204.6	222.4	216.8	174.8	205.9	187.2	146.4	123.4	137.2	128.8
32.5°	433.7	440.4	416.7	385.7	375.4	370.9	336.1	258.8	246.1	236.5	207.9
30°	828.2	796.7	734.1	695.6	683.9	609.3	537.3	542.7	468.8	363.1	310.4
27.5°	1511.8	1277.2	1183.5	1230.5	1112.3	962.2	944.4	958.3	773.1	585.8	447.6
25°	2450.6	2109.8	2024.1	1995.1	1777.3	1565.9	1516.9	1454.4	1241.6	879.8	618.4
22.5°	3623.8	3292.4	3091.2	2973.7	2687.2	2454.5	2243.3	2013.2	1797.6	1317.1	917.2
20°	4899.9	4496.8	4176.8	3934.4	3682.7	3369.9	3052.5	2656.3	2318.2	1861.6	1279.7
17.5°	7329.6	5729.0	5111.7	4807.5	4563.8	4264.8	3745.0	3232.0	2833.7	2432.3	1679.8
15°	10653.7	7397.2	6030.5	5555.2	5249.8	4768.8	4283.5	3737.2	3339.9	2948.2	2132.5
12.5°	17793.8	9508.6	6845.2	5966.8	5517.4	5113.5	4710.4	4215.8	3739.1	3223.9	2455.3
10°	24461.0	12849.7	7999.9	6373.9	5734.1	5344.3	4941.0	4368.5	3828.4	3370.0	2729.7
7.5°	32314.8	16842.2	9176.7	6693.4	5913.1	5431.0	4939.4	4353.1	3873.1	3469.2	2956.0
5°	37189.8	19566.7	9912.8	6917.3	6036.6	5531.6	4936.7	4272.5	3880.0	3529.5	3134.8
2.5°	39894.0	21028.8	10253.8	7064.7	6116.4	5639.3	4984.6	4233.9	3879.8	3541.5	3189.9
0°	40208.5	21330.3	10213.2	7079.6	6163.2	5735.2	5097.2	4249.4	3871.2	3532.5	3202.1
-2.5°	39473.9	20708.0	10077.0	7019.8	6136.7	5721.4	5283.7	4416.6	3965.0	3572.4	3187.9
-5°	35557.3	18526.9	9408.7	6686.9	5892.4	5524.9	5171.5	4444.3	3966.6	3568.3	3131.1
-7.5°	29086.3	15289.0	8445.3	6267.2	5582.0	5241.6	4883.4	4304.0	3803.2	3428.0	2949.3
-10°	20813.8	11213.9	7216.1	5810.6	5262.5	4942.1	4620.8	4110.4	3624.4	3273.0	2733.4
-12.5°	15142.3	8317.1	6084.2	5302.6	4935.2	4688.5	4418.6	3889.2	3432.7	3104.9	2488.3
-15°	9435.3	6733.0	5566.4	4985.4	4632.0	4450.5	4240.7	3769.3	3396.3	2979.9	2217.7
-17.5°	7239.2	5686.8	5126.8	4761.0	4491.7	4277.3	4076.0	3743.3	3381.3	2876.5	1978.7
-20°	5919.4	5373.9	4943.5	4633.0	4422.4	4238.1	3991.9	3732.9	3328.1	2601.5	1747.1



REPORT NUMBER: P701607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-CV1-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5567.9	5273.5	4933.8	4615.0	4370.6	4160.3	3925.4	3663.4	3239.7	2238.1	1493.4
-25°	5423.0	5273.6	5016.8	4742.9	4387.1	4076.0	3844.5	3500.3	2795.0	1879.3	1259.4
-27.5°	5473.3	5352.9	5193.6	4898.8	4514.6	4057.9	3691.0	3248.3	2287.3	1575.6	1245.3
-30°	5664.3	5507.4	5312.6	5056.1	4609.4	4116.2	3553.8	2664.1	1879.9	1327.8	1235.1
-32.5°	5795.4	5553.5	5323.8	5060.1	4649.0	4100.4	3066.8	2110.6	1477.7	1314.0	1234.8
-35°	5693.2	5402.8	5103.3	4841.6	4606.1	3459.2	2408.8	1668.3	1385.3	1300.6	1232.1
-37.5°	5385.1	5028.6	4722.0	4370.9	3520.1	2590.0	1804.4	1483.5	1375.7	1290.3	1187.8
-40°	4883.2	4530.8	3872.2	3154.7	2479.0	1794.8	1581.6	1479.0	1380.7	1251.0	1121.8
-42.5°	3901.3	3302.0	2735.6	2183.5	1730.7	1660.8	1579.2	1487.2	1361.1	1197.9	1047.1
-45°	2697.6	2260.5	1843.8	1783.5	1717.9	1652.8	1589.2	1455.3	1297.2	1129.5	970.5
-47.5°	1952.4	1895.3	1836.8	1777.1	1714.2	1636.2	1513.7	1378.6	1206.4	1046.3	906.7
-50°	1941.0	1878.8	1821.0	1752.6	1636.1	1520.0	1393.6	1257.6	1102.1	961.7	830.5
-52.5°	1897.4	1799.6	1701.8	1602.3	1491.7	1370.9	1246.6	1125.3	994.6	864.0	740.9
-55°	1715.9	1618.6	1522.2	1425.1	1327.9	1217.7	1105.8	990.8	873.7	754.6	647.6
-57.5°	1496.8	1408.5	1326.2	1243.8	1161.9	1058.3	949.6	844.1	745.4	643.9	550.3
-60°	1271.7	1196.8	1122.5	1045.3	965.8	877.0	783.9	695.0	610.9	535.4	459.9
-62.5°	1031.8	963.5	900.0	834.2	765.0	691.0	619.1	557.0	495.0	430.2	359.1
-65°	794.5	738.2	682.5	633.7	585.8	538.5	484.7	426.8	367.7	309.6	250.9
-67.5°	578.4	538.1	500.1	462.7	421.9	378.5	329.2	279.6	240.1	203.0	162.2
-70°	375.6	343.7	311.7	279.1	251.6	226.8	199.0	169.1	137.9	115.8	97.2
-72.5°	206.6	188.7	170.5	152.3	132.5	119.9	108.2	94.8	80.5	65.3	54.2
-75°	102.3	95.2	87.9	80.6	72.4	63.2	58.2	54.7	51.2	47.8	44.3
-77.5°	56.5	54.9	53.3	51.6	49.6	47.4	44.9	42.4	40.4	38.4	36.4
-80°	42.9	42.0	40.9	39.4	37.8	36.2	34.5	33.2	31.9	30.7	29.6
-82.5°	32.5	31.7	30.8	30.0	29.2	28.5	27.7	26.9	26.0	25.0	23.9
-85°	24.3	24.0	23.7	23.5	23.2	23.0	22.6	22.0	21.5	20.9	20.4
-87.5°	19.6	19.1	18.5	18.5	18.4	18.4	18.3	18.2	18.0	17.7	17.5
-90°	0.0	0.0	0.0	0.5	1.1	1.6	2.1	2.1	2.1	2.1	2.1



REPORT NUMBER: P701607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-CV1-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	14.0	13.5	13.0	12.5	12.5	12.5	12.5	12.5	12.0	11.5	10.9
87.5°	2.5	2.8	3.1	3.3	3.5	3.7	3.9	4.2	4.4	4.5	4.7
85°	2.6	3.2	3.7	4.2	4.2	4.2	4.2	4.2	4.6	4.9	5.1
82.5°	2.7	3.2	3.7	4.2	4.5	4.7	4.8	4.8	4.9	5.3	5.6
80°	3.7	3.8	4.0	4.3	4.8	5.3	5.5	5.6	5.5	5.6	5.8
77.5°	4.9	4.6	4.3	4.3	4.8	5.3	5.8	6.2	6.1	5.9	6.0
75°	6.2	5.9	5.5	5.1	5.1	5.4	5.9	6.2	6.2	6.2	6.1
72.5°	6.2	6.2	6.2	6.2	5.8	5.8	6.0	6.2	6.2	6.2	6.2
70°	9.7	6.8	6.2	6.2	6.2	6.2	6.1	6.3	6.2	6.2	6.2
67.5°	15.8	11.1	8.0	6.5	6.2	6.2	6.2	6.5	6.5	6.2	6.2
65°	27.6	17.9	10.2	8.4	7.0	6.2	6.2	6.6	6.9	6.7	6.2
62.5°	35.7	26.8	17.7	11.5	8.5	7.1	6.2	6.7	7.2	7.1	6.6
60°	39.5	31.1	24.5	17.7	11.6	8.1	7.1	6.8	7.3	7.7	7.1
57.5°	36.5	33.3	28.5	22.7	16.3	10.6	8.0	7.5	7.4	7.9	7.7
55°	31.1	29.1	30.4	26.3	20.2	14.0	9.8	8.3	7.7	8.0	8.4
52.5°	24.6	26.3	29.0	28.5	23.4	17.3	12.7	9.2	8.4	8.1	8.5
50°	19.6	23.6	27.8	29.1	26.2	20.5	15.3	11.3	9.2	8.3	8.6
47.5°	18.1	22.0	25.7	29.7	28.2	23.7	18.0	13.2	10.0	9.0	8.7
45°	20.0	21.5	24.5	28.1	30.6	26.1	20.8	14.9	11.4	9.7	8.8
42.5°	24.5	24.8	24.8	26.8	30.2	28.2	23.5	17.2	12.7	10.5	9.3
40°	35.1	31.3	27.2	29.4	30.1	30.2	25.4	19.5	13.8	11.5	10.0
37.5°	49.0	42.5	35.0	36.9	32.7	31.0	27.1	21.7	15.5	12.7	10.7
35°	94.6	58.0	59.6	54.8	43.1	32.6	28.8	23.6	18.0	13.8	11.4
32.5°	153.5	111.5	109.8	84.7	57.1	34.9	30.5	26.1	20.5	14.9	12.2
30°	251.8	231.8	182.6	122.4	78.7	48.0	33.8	28.8	23.1	16.0	13.0
27.5°	406.9	375.0	282.0	189.6	114.8	64.9	39.7	31.7	25.7	17.5	13.9
25°	563.7	523.1	419.8	278.6	156.0	100.8	47.0	34.8	28.2	19.6	14.8
22.5°	720.4	667.3	572.7	381.1	218.3	147.0	65.8	40.5	30.7	21.6	15.6
20°	870.0	810.6	726.2	466.8	294.1	202.0	99.6	46.9	33.2	23.6	16.4
17.5°	1043.9	919.6	792.7	557.0	369.4	257.1	138.6	53.9	35.7	25.6	17.1
15°	1311.4	985.0	852.9	637.3	434.6	311.9	181.5	61.2	38.2	27.4	17.8
12.5°	1554.4	1046.0	912.3	707.9	490.7	366.0	227.0	68.8	40.7	28.9	18.4
10°	1781.7	1102.4	969.9	768.8	538.5	418.6	273.5	76.5	43.8	30.2	19.0
7.5°	1987.6	1154.3	1024.5	820.4	575.7	453.0	304.9	84.2	47.0	31.2	19.6
5°	2149.9	1195.2	1069.5	857.1	590.0	466.0	329.7	91.5	50.3	32.1	20.0
2.5°	2203.6	1221.3	1105.4	885.6	601.1	474.8	349.4	98.1	53.3	32.7	20.4
0°	2215.1	1242.6	1134.6	906.0	608.8	480.0	363.6	103.9	56.1	33.2	20.8
-2.5°	2204.2	1245.0	1135.8	923.4	632.7	494.7	376.5	129.5	73.9	43.3	25.7
-5°	2154.0	1243.5	1131.4	932.2	652.3	506.6	384.4	153.7	90.9	52.9	30.3
-7.5°	2020.8	1226.7	1115.7	931.1	666.9	515.6	388.1	176.1	106.7	61.9	34.7
-10°	1849.0	1198.4	1086.6	911.4	676.4	526.6	389.4	196.3	120.9	70.0	38.6
-12.5°	1654.6	1166.2	1057.6	889.1	682.4	539.3	393.0	213.5	133.2	76.9	41.9
-15°	1442.4	1130.2	1030.7	866.1	685.4	549.0	392.7	227.5	143.7	83.7	44.5
-17.5°	1224.0	1090.4	1007.4	844.1	685.7	555.8	389.1	238.1	152.4	90.4	47.6
-20°	1182.4	1073.6	985.8	824.5	683.6	559.7	382.4	244.9	159.2	95.4	50.6



REPORT NUMBER: P701607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-CV1-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1172.3	1079.0	968.8	814.6	681.3	560.9	372.7	247.8	164.1	98.6	52.5
-25°	1161.8	1085.5	950.7	803.0	678.5	544.4	367.5	246.5	166.8	99.9	52.9
-27.5°	1162.7	1083.9	927.6	783.8	663.0	525.4	364.7	248.4	167.7	99.0	52.0
-30°	1170.4	1053.3	900.3	758.6	642.0	494.1	356.1	247.8	166.5	97.5	49.6
-32.5°	1162.5	1017.6	864.7	731.3	607.5	461.3	338.4	244.5	162.3	94.7	48.1
-35°	1111.0	969.4	820.9	697.5	567.9	435.5	319.5	238.4	155.2	89.6	46.3
-37.5°	1054.0	911.2	777.8	655.9	527.5	406.4	304.6	223.7	144.9	82.4	43.4
-40°	987.0	853.5	730.1	610.9	490.5	374.2	285.9	205.4	133.9	72.8	39.4
-42.5°	917.1	797.9	679.3	565.0	451.9	349.2	263.3	184.2	118.7	65.3	34.4
-45°	853.0	737.7	623.7	516.4	411.6	320.0	236.5	160.9	101.2	58.2	30.5
-47.5°	783.8	671.5	565.3	464.0	373.7	286.5	206.3	138.8	82.0	49.6	29.3
-50°	706.4	602.6	504.4	414.0	330.2	248.8	174.4	114.6	70.1	39.4	27.8
-52.5°	629.9	532.6	444.7	362.7	282.8	207.5	144.3	89.4	57.3	34.6	26.1
-55°	549.1	464.0	384.8	306.3	231.5	168.6	111.8	73.4	43.4	32.0	24.3
-57.5°	470.2	394.8	318.1	244.9	182.4	128.2	86.6	56.1	37.5	29.3	23.6
-60°	387.0	314.8	245.8	187.0	134.1	94.1	65.6	42.4	33.9	26.7	22.9
-62.5°	292.0	231.6	180.2	130.0	95.0	68.5	46.4	37.9	30.1	25.6	22.0
-65°	204.0	158.2	115.7	89.8	65.2	47.1	40.6	33.0	28.1	24.4	21.0
-67.5°	122.4	100.2	77.9	55.7	46.4	40.5	34.5	30.2	26.5	23.1	20.0
-70°	78.0	58.7	49.4	44.3	39.1	34.2	31.3	28.1	24.7	21.6	18.9
-72.5°	50.0	45.6	41.1	36.6	33.7	31.0	28.5	25.9	22.9	20.2	17.7
-75°	40.5	37.5	34.8	32.3	29.9	27.7	25.8	23.6	21.0	18.6	16.5
-77.5°	34.1	31.8	29.7	28.1	26.4	24.7	23.0	21.2	19.1	17.3	15.4
-80°	28.2	26.9	25.7	24.6	23.2	21.7	20.5	19.3	17.6	15.9	14.2
-82.5°	23.1	22.5	21.9	21.1	20.1	19.2	18.4	17.6	16.1	14.6	13.2
-85°	19.8	19.1	18.4	17.5	17.0	16.6	16.3	15.9	14.7	13.5	12.5
-87.5°	16.8	16.2	15.5	14.9	14.7	14.5	14.4	14.2	13.3	12.5	11.7
-90°	2.1	2.1	2.1	2.1	2.6	3.2	3.7	4.2	4.2	4.2	4.2



REPORT NUMBER: P701607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-CV1-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	10.4	9.9	9.4	8.8	8.3	7.3	6.2
87.5°	4.7	5.0	5.4	5.8	6.2	6.2	6.2
85°	5.2	5.4	5.6	5.8	6.2	6.3	6.2
82.5°	5.8	5.7	5.7	5.9	6.2	6.3	6.2
80°	6.2	6.0	5.9	6.0	6.2	6.4	6.2
77.5°	6.2	6.2	6.1	6.0	6.2	6.4	6.2
75°	6.3	6.4	6.2	6.1	6.2	6.5	6.2
72.5°	6.3	6.5	6.4	6.2	6.3	6.5	6.2
70°	6.4	6.7	6.6	6.2	6.3	6.6	6.2
67.5°	6.4	6.8	6.8	6.4	6.3	6.6	6.2
65°	6.5	7.0	7.0	6.7	6.4	6.7	6.2
62.5°	6.5	7.0	7.3	6.9	6.4	6.7	6.2
60°	6.6	7.1	7.5	7.1	6.5	6.8	6.2
57.5°	7.1	7.1	7.6	7.3	6.7	6.9	6.2
55°	7.6	7.2	7.6	7.5	6.8	6.9	6.2
52.5°	8.1	7.3	7.7	7.8	7.0	7.0	6.2
50°	8.7	7.7	7.7	8.0	7.1	7.0	6.2
47.5°	9.1	8.2	7.8	8.2	7.3	7.1	6.2
45°	9.2	8.6	7.9	8.2	7.4	7.2	6.2
42.5°	9.3	9.0	7.9	8.3	7.6	7.2	6.2
40°	9.4	9.4	8.1	8.3	7.7	7.3	6.2
37.5°	9.5	9.7	8.4	8.4	7.8	7.4	6.2
35°	9.6	9.9	8.7	8.4	7.9	7.4	6.2
32.5°	9.9	10.0	9.0	8.5	7.9	7.5	6.2
30°	10.5	10.1	9.3	8.6	8.0	7.6	6.2
27.5°	11.1	10.2	9.5	8.7	8.1	7.6	6.2
25°	11.7	10.3	9.7	8.8	8.1	7.7	6.2
22.5°	12.3	10.4	9.9	9.0	8.2	7.8	6.2
20°	12.9	10.6	10.0	9.1	8.2	7.8	6.2
17.5°	13.5	10.8	10.2	9.3	8.2	7.9	6.2
15°	14.1	11.0	10.2	9.4	8.3	8.0	6.2
12.5°	14.6	11.2	10.3	9.6	8.3	8.0	6.2
10°	15.1	11.5	10.4	9.8	8.3	8.1	6.2
7.5°	15.5	11.7	10.4	9.9	8.3	8.1	6.2
5°	15.9	12.0	10.4	10.1	8.3	8.2	6.2
2.5°	16.3	12.3	10.4	10.3	8.3	8.3	6.2
0°	16.6	12.5	10.4	10.4	8.3	8.3	6.2
-2.5°	18.2	13.2	10.8	10.5	8.4	8.3	6.2
-5°	19.8	13.8	11.1	10.7	8.5	8.4	6.2
-7.5°	21.3	14.4	11.5	10.8	8.6	8.4	6.2
-10°	22.6	15.0	11.8	10.9	8.7	8.5	6.2
-12.5°	23.7	15.5	12.1	10.9	8.8	8.5	6.2
-15°	24.6	16.0	12.4	11.0	8.8	8.5	6.2
-17.5°	25.3	16.4	12.7	11.1	8.9	8.5	6.2
-20°	26.1	16.7	12.9	11.1	9.0	8.5	6.2



REPORT NUMBER: P701607 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-CV1-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	27.1	16.9	13.1	11.1	9.1	8.5	6.2
-25°	27.5	17.2	13.3	11.1	9.2	8.5	6.2
-27.5°	27.3	17.4	13.4	11.1	9.3	8.5	6.2
-30°	26.4	17.5	13.5	11.1	9.4	8.5	6.2
-32.5°	24.9	17.5	13.6	11.1	9.4	8.5	6.2
-35°	24.2	17.3	13.7	11.1	9.5	8.5	6.2
-37.5°	24.0	17.2	13.8	11.0	9.6	8.5	6.2
-40°	23.6	17.3	13.9	11.0	9.7	8.5	6.2
-42.5°	23.0	17.3	13.8	10.9	9.7	8.5	6.2
-45°	22.1	17.2	13.8	10.9	9.8	8.4	6.2
-47.5°	21.1	17.1	13.7	10.8	9.9	8.4	6.2
-50°	20.8	16.9	13.6	10.8	9.9	8.4	6.2
-52.5°	20.5	16.7	13.4	10.9	10.0	8.3	6.2
-55°	20.1	16.4	13.2	11.0	10.0	8.3	6.2
-57.5°	19.6	16.1	12.9	11.0	10.1	8.2	6.2
-60°	19.1	15.7	12.7	11.0	10.1	8.2	6.2
-62.5°	18.5	15.2	12.6	11.0	10.0	8.1	6.2
-65°	17.8	14.7	12.4	11.0	9.9	8.0	6.2
-67.5°	17.0	14.2	12.2	10.9	9.7	8.0	6.2
-70°	16.2	13.8	12.0	10.9	9.6	7.9	6.2
-72.5°	15.4	13.3	11.7	10.6	9.5	7.8	6.2
-75°	14.5	12.7	11.4	10.4	9.3	7.8	6.2
-77.5°	13.6	12.1	11.1	10.1	9.2	7.7	6.2
-80°	12.6	11.6	10.8	9.9	9.0	7.6	6.2
-82.5°	12.0	11.2	10.4	9.6	8.8	7.5	6.2
-85°	11.5	10.8	10.1	9.4	8.7	7.4	6.2
-87.5°	10.9	10.3	9.7	9.1	8.5	7.3	6.2
-90°	4.2	4.7	5.2	5.7	6.2	6.2	6.2

(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

