

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: P731718 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-80-2S-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731718 (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: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-57-80-2S-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 2S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

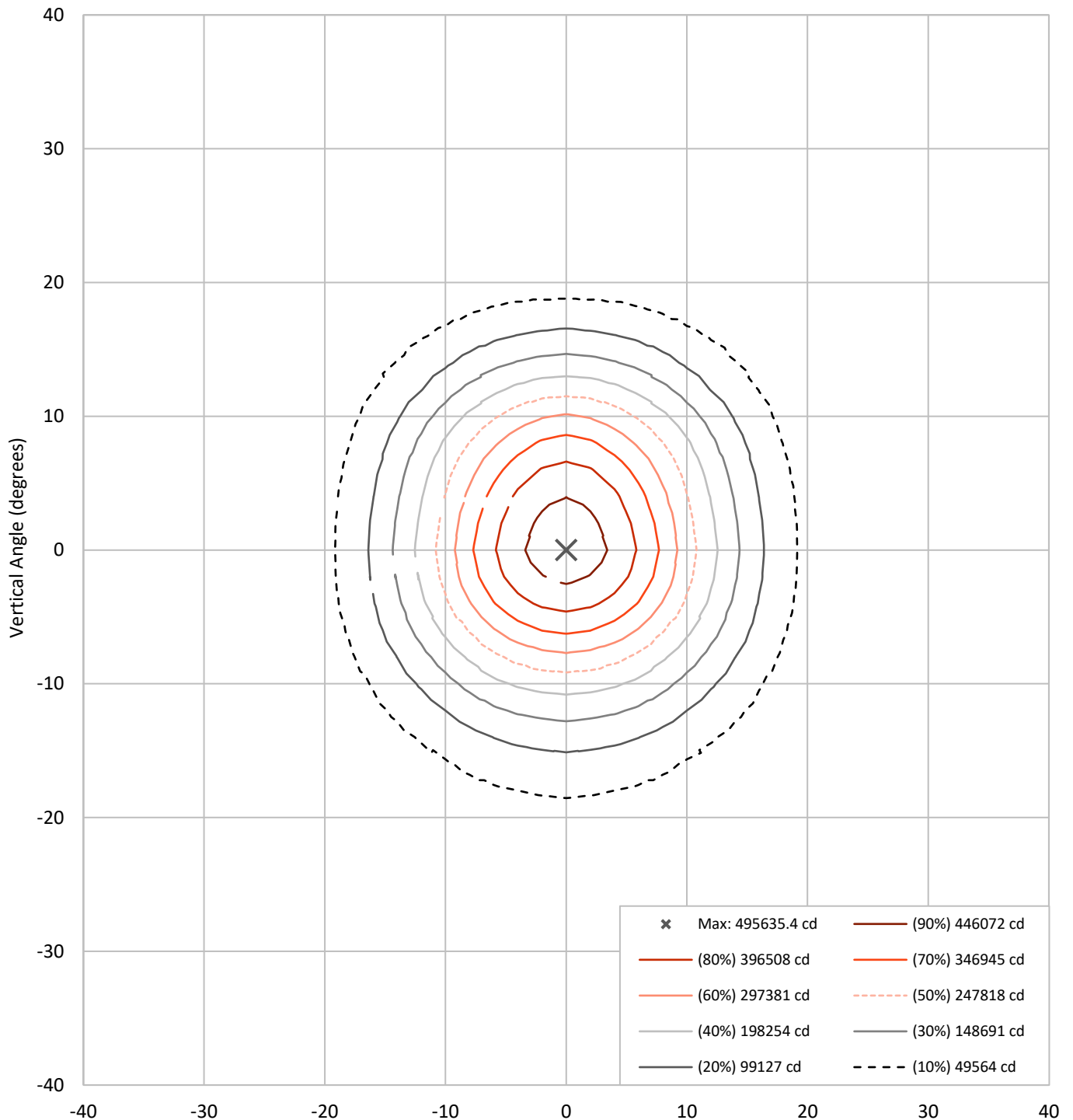
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	80144.7 lumens	Max Intensity:	495635.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	114.0 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:	37215.6 lumens	Field Lumens:	67752.5 lumens
Beam Efficiency:	46.4%	Field Efficiency:	84.5%

Input Watts (W): 703.3
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





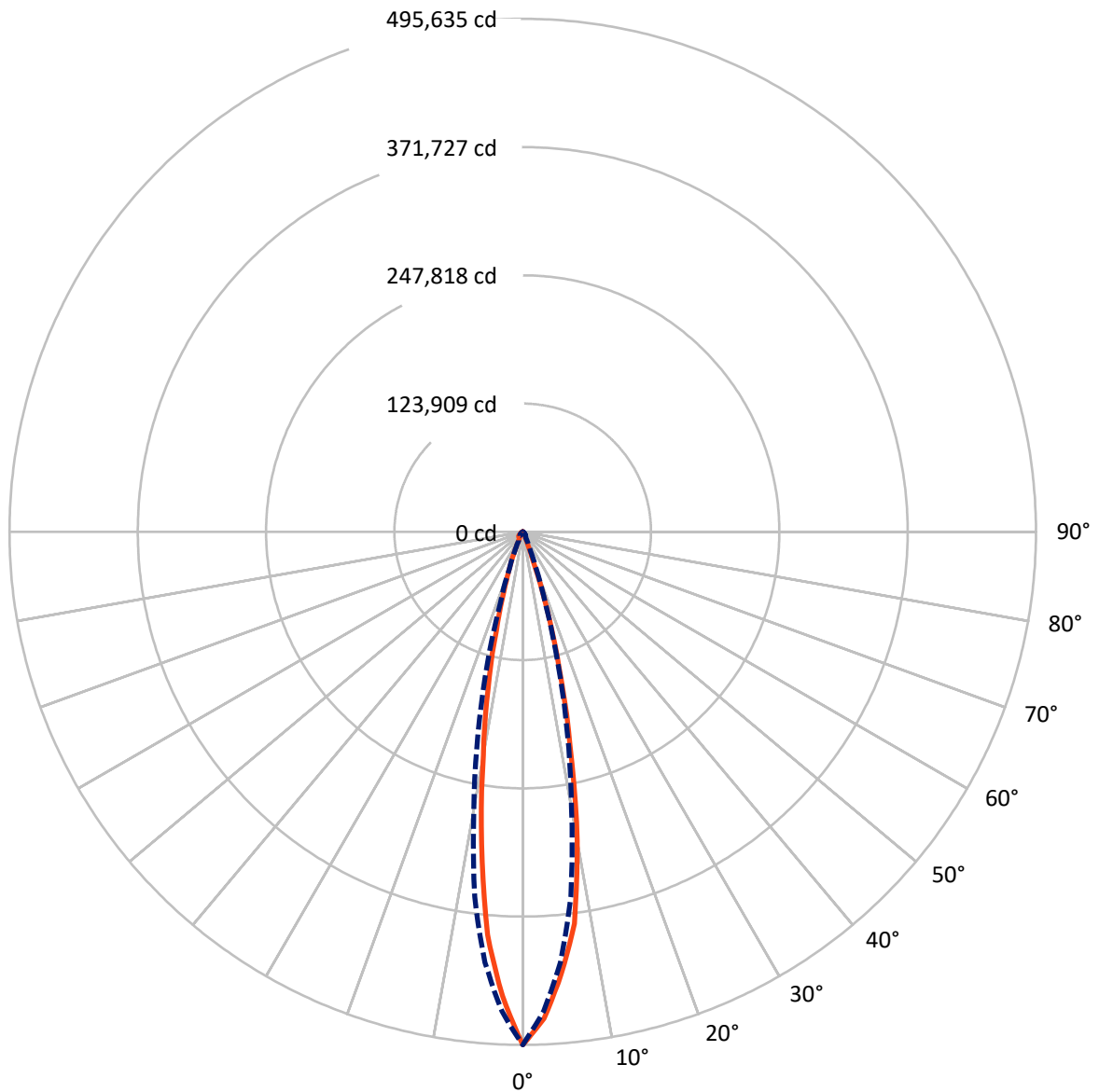
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Lumen Table

90	0.1		0.3		0.5		0.5		0.5		0.5		0.3		0.1	
80	0.1		0.3		0.5		0.5		0.5		0.5		0.3		0.1	
70	0.1	0.1	0.2	0.7	0.8	0.4	0.3	0.2	0.2	0.3	0.4	0.8	0.7	0.2	0.1	0.1
60		0.1	0.4	0.6	0.5	0.3	0.2	0.3	0.3	0.2	0.3	0.5	0.6	0.4	0.1	
50	0.2	0.2	0.4	0.5	0.6	1.1	1.8	1.2	1.2	1.8	1.1	0.6	0.5	0.4	0.2	0.2
40		0.3	1.0	2.8	5.3	7.7	10.7	12.9	12.9	10.7	7.7	5.3	2.8	1.0	0.3	
30	0.3	0.6	5.1	16.2	38.3	58.2	100.7	190.9	190.9	100.7	58.2	38.3	16.2	5.1	0.6	0.3
20		1.5	10.8	42.8	98.2	183.5	1199.1	3715.6	3715.6	1199.1	183.5	98.2	42.8	10.8	1.5	
10	0.4	2.3	13.9	57.5	116.6	367.8	3524.2	10562.3	10562.3	3524.2	367.8	116.6	57.5	13.9	2.3	0.4
0		2.9	15.0	57.7	116.3	350.6	3314.6	9606.2	9606.2	3314.6	350.6	116.3	57.7	15.0	2.9	
-10	0.6	3.4	14.3	46.1	98.4	170.5	975.0	2823.4	2823.4	975.0	170.5	98.4	46.1	14.3	3.4	0.6
-20		3.5	13.5	32.7	88.1	131.6	199.9	386.5	386.5	199.9	131.6	88.1	32.7	13.5	3.5	
-30	0.5	3.1	11.6	24.6	61.5	127.8	166.0	185.5	185.5	166.0	127.8	61.5	24.6	11.6	3.1	0.5
-40		2.2	8.7	20.2	36.3	61.6	105.3	140.3	140.3	105.3	61.6	36.3	20.2	8.7	2.2	
-50	0.4	1.1	5.2	13.4	25.9	39.2	51.1	57.8	57.8	51.1	39.2	25.9	13.4	5.2	1.1	0.4
-60		0.5	1.7	5.4	11.4	18.3	25.1	29.1	29.1	25.1	18.3	11.4	5.4	1.7	0.5	
-70	0.2	1.3	3.9	9.0	12.1	9.0	3.9	1.3	0.2	1.3	3.9	9.0	12.1	9.0	3.9	0.2
-80		0.2	1.3	3.9	9.0	12.1	9.0	3.9	1.3	0.2	1.3	3.9	9.0	12.1	9.0	
-90	0.2		1.3		3.9		9.0		12.1		9.0		3.9		1.3	

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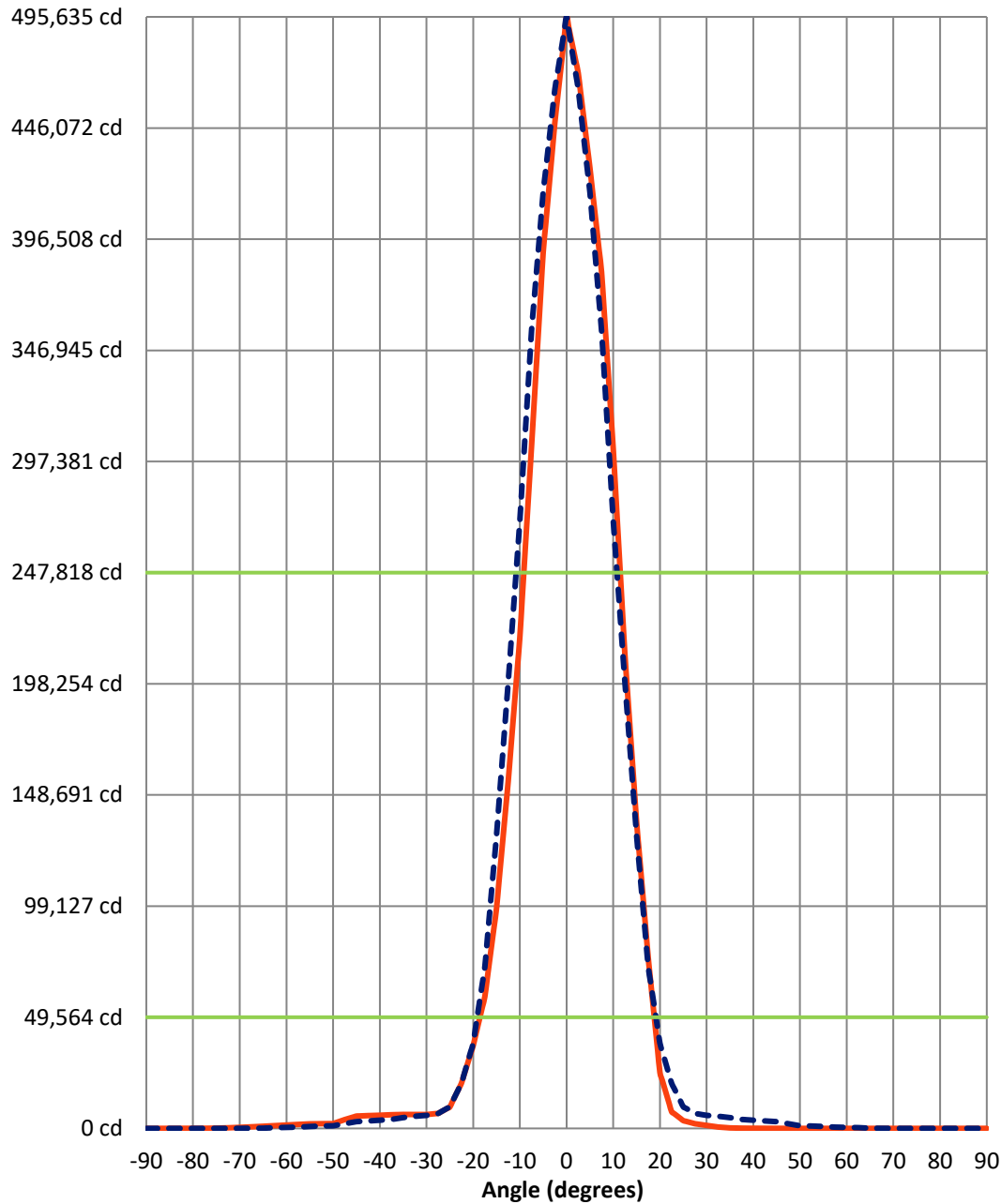
Luminous Intensity Polar Plot



— 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: 37215.6
Efficiency: 46.4%

Field:
H Angle: 38.3°
V Angle: 37.3°
Lumens: 67752.5
Efficiency: 84.5%

Spill:
Lumens: 12392.2
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°	5.9	6.9	7.9	8.4	8.9	9.3	9.8	10.3	10.8	11.3	11.8
87.5°	5.9	5.9	5.9	5.5	5.1	4.7	4.4	4.4	4.2	4.1	3.9
85°	5.9	6.0	5.9	5.5	5.3	5.1	4.9	4.8	4.6	4.3	3.9
82.5°	5.9	6.0	5.9	5.6	5.4	5.4	5.5	5.3	5.0	4.6	4.5
80°	5.9	6.1	5.9	5.7	5.6	5.7	5.9	5.5	5.3	5.2	5.3
77.5°	5.9	6.1	5.9	5.7	5.8	5.9	5.9	5.7	5.6	5.8	5.9
75°	5.9	6.2	5.9	5.8	5.9	6.1	6.0	5.8	5.9	5.9	5.9
72.5°	5.9	6.2	6.0	5.9	6.1	6.2	6.0	5.9	5.9	5.9	5.9
70°	5.9	6.3	6.0	5.9	6.3	6.4	6.1	5.9	5.9	5.9	6.0
67.5°	5.9	6.3	6.0	6.1	6.5	6.5	6.1	5.9	5.9	6.2	6.1
65°	5.9	6.4	6.1	6.3	6.7	6.6	6.2	5.9	6.3	6.5	6.3
62.5°	5.9	6.4	6.1	6.5	6.9	6.7	6.2	6.3	6.8	6.9	6.4
60°	5.9	6.5	6.2	6.7	7.2	6.7	6.3	6.8	7.3	7.0	6.5
57.5°	5.9	6.5	6.3	7.0	7.2	6.8	6.7	7.4	7.5	7.0	7.1
55°	5.9	6.6	6.5	7.2	7.3	6.8	7.2	7.9	7.6	7.3	7.9
52.5°	5.9	6.6	6.7	7.4	7.3	7.0	7.7	8.1	7.7	8.0	8.7
50°	5.9	6.7	6.8	7.6	7.4	7.4	8.2	8.2	7.9	8.7	10.7
47.5°	5.9	6.8	6.9	7.8	7.4	7.7	8.6	8.3	8.5	9.4	12.5
45°	5.9	6.8	7.1	7.8	7.5	8.1	8.7	8.4	9.2	10.8	14.1
42.5°	5.9	6.9	7.2	7.9	7.5	8.5	8.8	8.8	9.9	12.0	16.3
40°	5.9	6.9	7.3	7.9	7.7	8.9	8.9	9.4	10.8	13.0	18.4
37.5°	5.9	7.0	7.4	8.0	8.0	9.2	9.0	10.1	11.9	14.6	20.5
35°	5.9	7.1	7.5	8.0	8.3	9.4	9.1	10.8	13.0	17.0	22.2
32.5°	5.9	7.1	7.6	8.1	8.5	9.5	9.3	11.5	14.1	19.4	24.6
30°	5.9	7.2	7.6	8.2	8.8	9.5	9.9	12.3	15.1	21.8	27.2
27.5°	5.9	7.3	7.7	8.3	9.0	9.6	10.5	13.2	16.5	24.3	29.9
25°	5.9	7.3	7.7	8.4	9.2	9.7	11.1	14.0	18.5	26.6	32.9
22.5°	5.9	7.4	7.8	8.5	9.3	9.8	11.6	14.8	20.4	28.9	38.3
20°	5.9	7.5	7.8	8.7	9.5	10.0	12.2	15.5	22.3	31.3	44.3
17.5°	5.9	7.5	7.8	8.8	9.6	10.2	12.8	16.2	24.1	33.7	50.9
15°	5.9	7.6	7.9	8.9	9.7	10.4	13.3	16.8	25.8	36.1	57.8
12.5°	5.9	7.6	7.9	9.1	9.7	10.6	13.8	17.4	27.3	38.4	65.0
10°	5.9	7.7	7.9	9.2	9.8	10.8	14.3	18.0	28.5	41.3	72.3
7.5°	5.9	7.8	7.9	9.4	9.8	11.1	14.7	18.5	29.5	44.4	79.6
5°	5.9	7.8	7.9	9.5	9.8	11.3	15.1	18.9	30.3	47.5	86.4
2.5°	5.9	7.9	7.9	9.7	9.8	11.6	15.4	19.3	30.9	50.4	92.6
0°	5.9	7.9	7.9	9.8	9.8	11.8	15.7	19.6	31.4	53.0	98.1
-2.5°	5.9	7.9	8.0	9.9	10.1	12.4	17.3	24.2	40.9	69.8	122.3
-5°	5.9	8.0	8.1	10.0	10.5	13.1	18.7	28.6	50.0	85.9	145.2
-7.5°	5.9	8.0	8.1	10.1	10.8	13.6	20.1	32.7	58.5	100.8	166.3
-10°	5.9	8.0	8.2	10.2	11.1	14.2	21.3	36.4	66.1	114.2	185.4
-12.5°	5.9	8.1	8.3	10.3	11.4	14.7	22.4	39.6	72.6	125.8	201.6
-15°	5.9	8.1	8.4	10.4	11.7	15.1	23.3	42.1	79.0	135.7	214.8
-17.5°	5.9	8.1	8.5	10.4	12.0	15.5	23.9	45.0	85.4	143.9	224.8
-20°	5.9	8.1	8.6	10.5	12.2	15.8	24.7	47.9	90.1	150.3	231.3



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 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.9	8.1	8.6	10.5	12.4	16.0	25.6	49.6	93.2	154.9	234.0
-25°	5.9	8.1	8.7	10.5	12.5	16.3	26.0	50.0	94.4	157.5	232.8
-27.5°	5.9	8.1	8.8	10.5	12.6	16.5	25.8	49.1	93.6	158.3	234.5
-30°	5.9	8.1	8.9	10.5	12.7	16.5	25.0	46.9	92.1	157.2	234.0
-32.5°	5.9	8.1	8.9	10.5	12.9	16.5	23.5	45.4	89.4	153.3	230.9
-35°	5.9	8.1	9.0	10.4	13.0	16.4	22.9	43.7	84.7	146.5	225.0
-37.5°	5.9	8.1	9.1	10.4	13.0	16.2	22.7	41.0	77.8	136.9	211.2
-40°	5.9	8.1	9.1	10.3	13.1	16.3	22.3	37.3	68.8	126.5	194.0
-42.5°	5.9	8.0	9.2	10.3	13.1	16.3	21.7	32.5	61.6	112.1	174.0
-45°	5.9	8.0	9.2	10.2	13.0	16.3	21.0	28.8	55.0	95.5	151.9
-47.5°	5.9	8.0	9.3	10.2	12.9	16.2	20.0	27.7	46.9	77.4	131.1
-50°	5.9	7.9	9.4	10.2	12.8	16.0	19.7	26.3	37.3	66.2	108.2
-52.5°	5.9	7.9	9.4	10.3	12.6	15.8	19.4	24.7	32.7	54.1	84.4
-55°	5.9	7.8	9.5	10.4	12.4	15.5	19.0	23.0	30.3	41.0	69.3
-57.5°	5.9	7.8	9.5	10.4	12.2	15.2	18.5	22.4	27.7	35.5	53.0
-60°	5.9	7.7	9.5	10.4	12.0	14.8	18.0	21.6	25.3	32.1	40.1
-62.5°	5.9	7.7	9.4	10.4	11.9	14.3	17.4	20.8	24.2	28.5	35.8
-65°	5.9	7.6	9.3	10.3	11.7	13.9	16.8	19.8	23.0	26.5	31.3
-67.5°	5.9	7.6	9.2	10.3	11.5	13.4	16.1	18.9	21.8	25.0	28.5
-70°	5.9	7.5	9.1	10.2	11.3	13.0	15.3	17.8	20.4	23.3	26.5
-72.5°	5.9	7.4	9.0	10.0	11.1	12.5	14.5	16.7	19.0	21.6	24.4
-75°	5.9	7.4	8.8	9.8	10.8	12.0	13.7	15.6	17.6	19.8	22.2
-77.5°	5.9	7.3	8.7	9.6	10.5	11.5	12.8	14.5	16.3	18.0	20.0
-80°	5.9	7.2	8.5	9.4	10.2	11.0	11.9	13.4	15.1	16.6	18.2
-82.5°	5.9	7.1	8.4	9.1	9.8	10.6	11.3	12.5	13.8	15.2	16.7
-85°	5.9	7.1	8.2	8.9	9.5	10.2	10.8	11.8	12.8	13.9	15.1
-87.5°	5.9	7.0	8.1	8.6	9.2	9.8	10.3	11.0	11.8	12.6	13.4
-90°	5.9	5.9	5.9	5.4	4.9	4.4	3.9	3.9	3.9	3.9	3.9



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	11.8	11.8	11.8	11.8	12.3	12.8	13.2	13.7	14.2	14.7	15.2
87.5°	3.6	3.4	3.2	3.1	2.9	2.6	2.3	2.0	2.0	2.0	2.0
85°	3.9	3.9	3.9	3.9	3.4	3.0	2.5	2.0	2.0	2.0	2.0
82.5°	4.5	4.4	4.2	3.9	3.5	3.0	2.6	2.3	2.3	2.3	2.2
80°	5.2	5.0	4.5	4.0	3.7	3.5	3.5	3.6	3.4	3.1	2.9
77.5°	5.5	5.0	4.5	4.0	4.0	4.3	4.6	4.9	4.9	4.7	4.4
75°	5.6	5.1	4.8	4.8	5.2	5.6	5.9	5.9	5.7	5.6	5.6
72.5°	5.7	5.5	5.5	5.9	5.9	5.9	5.9	5.9	7.5	9.7	11.1
70°	5.8	5.9	5.9	5.9	5.9	6.5	9.2	13.1	17.1	19.2	21.2
67.5°	5.9	5.9	5.9	6.2	7.5	10.5	14.9	23.4	32.4	34.6	34.3
65°	5.9	5.9	6.6	8.0	9.6	16.9	26.1	36.7	44.6	43.4	40.6
62.5°	5.9	6.7	8.0	10.9	16.7	25.4	33.8	41.3	48.9	47.5	41.0
60°	6.7	7.7	11.0	16.8	23.2	29.5	37.3	42.3	47.2	48.4	37.0
57.5°	7.6	10.0	15.5	21.5	26.9	31.5	34.5	38.8	40.5	39.3	28.8
55°	9.3	13.3	19.1	24.9	28.7	27.5	29.4	30.7	30.2	27.9	20.5
52.5°	12.0	16.3	22.2	26.9	27.4	24.8	23.2	23.4	21.6	18.4	15.9
50°	14.4	19.4	24.8	27.4	26.2	22.2	18.5	17.9	16.7	15.1	13.7
47.5°	17.0	22.4	26.6	28.0	24.2	20.7	17.1	15.9	15.0	15.5	14.6
45°	19.7	24.7	28.9	26.5	23.2	20.3	18.9	15.6	17.6	18.8	19.5
42.5°	22.2	26.7	28.4	25.3	23.5	23.4	23.1	22.4	23.4	28.3	31.1
40°	24.0	28.5	28.4	27.8	25.7	29.6	33.2	36.1	36.3	42.6	47.7
37.5°	25.6	29.3	30.9	34.8	33.0	40.1	46.2	70.7	71.8	59.4	80.4
35°	27.2	30.8	40.7	51.8	56.3	54.7	89.3	121.6	129.6	116.5	138.3
32.5°	28.8	33.0	53.9	80.0	103.7	105.3	144.9	196.3	223.3	232.4	244.4
30°	31.9	45.3	74.3	115.5	172.5	218.9	237.8	293.1	342.9	442.8	512.6
27.5°	37.5	61.3	108.4	179.0	266.3	354.1	384.2	422.7	553.3	730.2	905.0
25°	44.4	95.2	147.3	263.1	396.5	494.0	532.4	584.1	830.9	1172.7	1373.6
22.5°	62.2	138.8	206.1	359.9	540.8	630.2	680.4	866.3	1243.9	1697.8	1901.4
20°	94.1	190.7	277.7	440.8	685.8	765.5	821.7	1208.6	1758.2	2189.4	2508.8
17.5°	130.9	242.8	348.9	526.1	748.6	868.5	986.0	1586.5	2297.2	2676.3	3052.5
15°	171.4	294.6	410.5	601.9	805.4	930.3	1238.6	2014.1	2784.5	3154.4	3529.6
12.5°	214.4	345.7	463.5	668.6	861.6	987.9	1468.1	2319.0	3044.9	3531.4	3981.6
10°	258.3	395.4	508.6	726.1	916.0	1041.2	1682.7	2578.1	3182.9	3615.7	4125.8
7.5°	287.9	427.9	543.8	774.8	967.5	1090.1	1877.2	2791.8	3276.6	3658.0	4111.3
5°	311.3	440.2	557.3	809.5	1010.0	1128.8	2030.5	2960.7	3333.5	3664.5	4035.3
2.5°	330.0	448.4	567.7	836.4	1044.0	1153.5	2081.2	3012.8	3344.8	3664.3	3998.8
0°	343.4	453.3	575.0	855.7	1071.6	1173.6	2092.1	3024.3	3336.3	3656.2	4013.4
-2.5°	355.6	467.2	597.6	872.1	1072.8	1175.9	2081.7	3010.9	3374.0	3744.8	4171.3
-5°	363.0	478.4	616.1	880.4	1068.5	1174.5	2034.3	2957.1	3370.1	3746.3	4197.4
-7.5°	366.6	486.9	629.8	879.4	1053.8	1158.5	1908.6	2785.4	3237.6	3592.0	4065.0
-10°	367.9	497.4	638.8	860.7	1026.2	1131.8	1746.3	2581.6	3091.2	3423.1	3882.1
-12.5°	371.2	509.3	644.5	839.7	998.9	1101.4	1562.7	2350.1	2932.4	3242.0	3673.3
-15°	370.9	518.5	647.4	818.0	973.5	1067.4	1362.3	2094.5	2814.3	3207.6	3560.0
-17.5°	367.5	524.9	647.7	797.2	951.4	1029.8	1156.0	1868.8	2716.7	3193.5	3535.4
-20°	361.1	528.7	645.6	778.7	931.1	1014.0	1116.7	1650.1	2456.9	3143.2	3525.6



REPORT NUMBER: P731718 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	352.0	529.7	643.4	769.3	915.0	1019.1	1107.2	1410.4	2113.8	3059.8	3459.9
-25°	347.1	514.2	640.8	758.4	897.9	1025.2	1097.3	1189.4	1774.8	2639.7	3305.9
-27.5°	344.4	496.2	626.2	740.2	876.0	1023.7	1098.2	1176.1	1488.1	2160.2	3067.9
-30°	336.3	466.6	606.4	716.5	850.3	994.8	1105.3	1166.5	1254.0	1775.4	2516.1
-32.5°	319.5	435.6	573.8	690.7	816.7	961.1	1097.9	1166.2	1241.0	1395.7	1993.4
-35°	301.8	411.2	536.4	658.7	775.3	915.5	1049.3	1163.7	1228.4	1308.4	1575.6
-37.5°	287.7	383.8	498.2	619.5	734.5	860.6	995.4	1121.8	1218.6	1299.3	1401.1
-40°	270.0	353.4	463.3	577.0	689.6	806.1	932.2	1059.5	1181.6	1304.0	1396.8
-42.5°	248.6	329.8	426.8	533.7	641.6	753.6	866.1	988.9	1131.4	1285.5	1404.6
-45°	223.3	302.2	388.7	487.7	589.1	696.8	805.7	916.5	1066.7	1225.2	1374.5
-47.5°	194.8	270.5	352.9	438.2	533.9	634.2	740.3	856.3	988.1	1139.4	1302.0
-50°	164.7	235.0	311.8	391.0	476.4	569.1	667.1	784.4	908.3	1040.9	1187.7
-52.5°	136.2	195.9	267.1	342.5	419.9	503.0	594.8	699.7	816.0	939.3	1062.8
-55°	105.5	159.2	218.6	289.2	363.5	438.2	518.5	611.6	712.7	825.2	935.7
-57.5°	81.8	121.0	172.3	231.3	300.5	372.9	444.0	519.7	608.1	704.0	797.3
-60°	61.9	88.9	126.7	176.6	232.1	297.3	365.5	434.4	505.6	576.9	656.4
-62.5°	43.8	64.6	89.7	122.8	170.2	218.7	275.7	339.1	406.3	467.5	526.1
-65°	38.4	44.5	61.6	84.9	109.4	149.5	192.6	237.0	292.4	347.3	403.1
-67.5°	32.6	38.3	43.8	52.6	73.7	94.7	115.6	153.2	191.7	226.7	264.1
-70°	29.6	32.4	36.9	41.9	46.7	55.5	73.7	91.8	109.3	130.2	159.7
-72.5°	27.0	29.3	31.9	34.6	38.8	43.1	47.2	51.2	61.7	76.0	89.5
-75°	24.3	26.2	28.2	30.5	32.9	35.4	38.3	41.9	45.2	48.4	51.6
-77.5°	21.7	23.3	24.9	26.5	28.1	30.1	32.1	34.4	36.3	38.2	40.1
-80°	19.3	20.5	21.9	23.2	24.3	25.4	26.6	27.9	29.0	30.0	31.3
-82.5°	17.4	18.1	19.0	19.9	20.6	21.2	21.8	22.5	23.6	24.6	25.4
-85°	15.4	15.7	16.1	16.6	17.4	18.1	18.7	19.3	19.8	20.3	20.9
-87.5°	13.6	13.7	13.9	14.0	14.7	15.3	15.9	16.5	16.8	17.0	17.2
-90°	3.4	3.0	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	15.7	15.7	15.7	15.7	15.7	16.2	16.7	17.2	17.7	17.7	17.7
87.5°	2.0	1.9	1.9	1.8	1.8	1.4	0.9	0.5	0.0	0.0	0.0
85°	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.6	2.6	2.5	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	4.2	3.9	3.4	2.8	2.2	2.0	2.0	2.0	2.0	2.0	2.0
75°	5.7	5.6	5.4	4.9	4.1	3.9	3.9	3.8	3.6	3.6	3.7
72.5°	11.9	11.8	11.1	10.2	8.8	8.1	8.0	7.6	7.2	6.9	6.7
70°	21.7	21.0	19.7	17.6	14.6	12.6	11.5	10.1	8.5	7.8	7.8
67.5°	31.3	28.0	25.3	22.3	18.3	15.1	13.3	11.6	10.0	9.2	8.8
65°	36.1	28.9	24.0	20.3	17.4	14.7	12.7	10.9	9.3	8.3	8.1
62.5°	33.2	24.1	19.0	15.9	13.4	11.6	10.2	8.8	7.4	6.6	6.9
60°	27.1	18.5	14.2	12.5	11.0	9.9	8.6	7.5	6.5	6.0	6.6
57.5°	20.7	14.8	11.7	10.9	9.8	8.5	7.6	7.3	7.2	7.2	7.6
55°	15.4	13.1	11.8	10.5	9.2	8.3	8.0	8.2	8.2	7.9	7.9
52.5°	13.2	12.1	10.7	9.5	9.3	9.4	9.7	9.3	9.1	9.1	9.3
50°	12.8	11.8	10.8	9.8	10.1	10.2	9.9	10.2	10.8	11.0	11.2
47.5°	13.9	13.1	13.8	11.6	12.1	13.6	13.6	13.9	15.6	16.4	16.7
45°	18.3	22.3	22.3	20.6	19.8	28.6	29.3	24.5	39.9	38.3	26.9
42.5°	33.9	36.0	36.0	45.1	60.9	69.5	92.2	128.2	120.1	93.2	56.4
40°	56.0	53.2	64.9	83.4	101.9	123.7	154.7	216.0	205.6	164.6	180.9
37.5°	96.7	96.7	102.3	127.9	135.0	116.2	165.2	159.6	127.1	178.8	189.2
35°	176.8	194.5	165.1	204.7	210.0	193.3	202.7	224.0	193.8	231.9	248.2
32.5°	317.5	350.3	354.6	364.3	393.5	415.9	409.6	461.9	464.5	513.9	581.4
30°	507.4	575.5	646.0	656.9	693.3	752.4	782.2	887.5	999.0	1072.0	1206.2
27.5°	892.0	908.8	1050.5	1162.1	1117.7	1206.2	1427.9	1556.3	1769.5	1896.5	2031.5
25°	1432.6	1478.9	1678.5	1884.3	1911.7	1992.6	2314.5	2498.3	2718.0	2846.3	3124.8
22.5°	2118.6	2318.1	2538.0	2808.5	2919.5	3109.5	3422.5	3692.1	4149.7	4716.0	5936.3
20°	2883.0	3182.6	3478.2	3715.9	3944.8	4247.0	4627.8	5928.3	7469.2	12112.1	15315.6
17.5°	3536.9	4027.9	4310.4	4540.5	4827.8	5410.9	6922.5	10754.7	18145.0	28481.8	37943.7
15°	4045.6	4504.0	4958.2	5246.7	5695.6	6986.4	10062.0	19460.6	34774.2	52223.6	73339.0
12.5°	4448.7	4829.4	5210.9	5635.4	6465.0	8980.5	16805.5	31320.0	53588.7	81794.5	119228.3
10°	4666.6	5047.4	5415.6	6019.8	7555.5	12136.1	23102.4	42243.7	77194.3	121245.5	168952.2
7.5°	4665.0	5129.3	5584.6	6321.6	8667.1	15906.7	30520.0	56422.0	97762.5	152990.1	214408.2
5°	4662.5	5224.3	5701.3	6533.1	9362.2	18480.0	35124.2	64274.0	114510.2	176834.7	242598.4
2.5°	4707.7	5326.0	5776.7	6672.3	9684.3	19860.8	37678.2	70475.9	126218.9	190406.7	260680.4
0°	4814.1	5416.6	5820.9	6686.4	9645.9	20145.5	37975.3	71976.4	130725.3	198918.8	271031.7
-2.5°	4990.2	5403.6	5795.8	6629.9	9517.3	19557.9	37281.4	70667.5	125503.7	189446.8	259238.6
-5°	4884.2	5218.0	5565.0	6315.4	8886.1	17497.9	33582.3	63235.9	110072.0	167493.3	227279.6
-7.5°	4612.1	4950.5	5271.9	5919.1	7976.2	14439.8	27470.8	50798.9	87381.0	132100.4	179058.8
-10°	4364.1	4667.6	4970.2	5487.9	6815.3	10591.1	19657.7	35951.3	63798.2	97508.7	133394.6
-12.5°	4173.2	4428.1	4661.1	5008.1	5746.2	7855.2	14301.3	26394.2	42841.7	64303.6	90566.8
-15°	4005.1	4203.2	4374.7	4708.6	5257.3	6359.1	8911.3	15819.8	26068.3	39591.5	53932.1
-17.5°	3849.6	4039.7	4242.2	4496.6	4842.0	5370.9	6837.1	9743.0	15655.5	24489.3	32946.9
-20°	3770.2	4002.6	4176.8	4375.8	4669.0	5075.4	5590.6	7032.1	9469.0	14898.1	20397.2



REPORT NUMBER: P731718 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3707.4	3929.2	4127.8	4358.7	4659.8	4980.6	5258.7	5698.9	6848.6	8553.7	11392.6
-25°	3631.0	3849.7	4143.4	4479.5	4738.2	4980.7	5121.8	5213.6	5707.0	6194.4	7281.2
-27.5°	3486.0	3832.5	4263.9	4626.7	4905.1	5055.7	5169.3	5243.6	5539.4	5830.0	6146.2
-30°	3356.4	3887.6	4353.4	4775.3	5017.6	5201.5	5349.7	5483.7	5688.1	5934.2	6049.2
-32.5°	2896.4	3872.7	4390.8	4779.1	5028.1	5245.1	5473.5	5597.3	5777.4	5957.6	6102.9
-35°	2275.0	3267.1	4350.3	4572.7	4819.9	5102.7	5377.0	5553.3	5736.6	5922.3	6093.4
-37.5°	1704.2	2446.2	3324.6	4128.1	4459.8	4749.4	5086.0	5357.5	5597.5	5799.9	5994.9
-40°	1493.8	1695.1	2341.3	2979.4	3657.2	4279.2	4612.0	4975.5	5336.5	5586.5	5809.0
-42.5°	1491.5	1568.6	1634.6	2062.3	2583.6	3118.6	3684.7	4212.3	4799.7	5211.4	5523.7
-45°	1501.0	1561.1	1622.6	1684.5	1741.4	2134.9	2547.8	2966.3	3579.3	4187.9	4714.0
-47.5°	1429.6	1545.3	1619.1	1678.5	1734.8	1790.0	1844.0	1956.8	2348.7	2763.5	3142.6
-50°	1316.2	1435.6	1545.3	1655.3	1719.9	1774.5	1833.2	1897.7	1960.4	2024.1	2066.5
-52.5°	1177.3	1294.8	1408.9	1513.3	1607.3	1699.7	1792.0	1867.0	1934.0	1999.2	2031.7
-55°	1044.4	1150.1	1254.1	1345.9	1437.6	1528.7	1620.6	1712.0	1802.7	1891.8	1937.4
-57.5°	896.9	999.6	1097.4	1174.7	1252.6	1330.3	1413.7	1499.5	1582.3	1658.2	1698.1
-60°	740.4	828.4	912.2	987.2	1060.1	1130.3	1201.1	1272.7	1342.7	1404.4	1440.6
-62.5°	584.7	652.6	722.5	787.9	850.0	909.9	974.4	1036.1	1094.3	1143.4	1177.6
-65°	457.7	508.5	553.2	598.5	644.6	697.2	750.3	800.7	847.7	886.7	915.9
-67.5°	310.9	357.5	398.4	436.9	472.2	508.1	546.3	582.9	617.6	646.3	668.9
-70°	188.0	214.2	237.6	263.5	294.3	324.5	354.7	382.6	407.9	428.7	445.2
-72.5°	102.2	113.3	125.2	143.9	161.1	178.2	195.1	210.6	224.7	237.2	248.1
-75°	54.9	59.7	68.3	76.1	83.0	89.9	96.7	102.8	108.4	113.0	116.7
-77.5°	42.4	44.7	46.8	48.7	50.3	51.9	53.3	54.8	56.1	57.4	58.6
-80°	32.6	34.2	35.7	37.2	38.7	39.7	40.6	41.3	41.8	42.7	43.5
-82.5°	26.2	26.9	27.6	28.4	29.2	30.0	30.8	31.6	32.4	32.7	33.0
-85°	21.4	21.7	22.0	22.3	22.5	22.8	23.0	23.2	23.3	23.4	23.5
-87.5°	17.3	17.4	17.4	17.5	17.5	18.0	18.5	19.0	19.5	19.6	19.6
-90°	2.0	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731718 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.2
87.5°	0.0	0.0	1.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	3.8	3.9	3.9	3.9	3.9	3.9	3.8	3.7	3.6	3.6	3.8
72.5°	6.3	5.9	5.9	5.9	5.9	5.9	6.3	6.7	6.9	7.2	7.6
70°	7.8	7.8	7.9	7.9	7.9	7.8	7.8	7.8	7.8	8.5	10.1
67.5°	8.4	8.0	7.0	5.9	7.0	8.0	8.4	8.8	9.2	10.0	11.6
65°	8.0	7.9	7.0	5.9	7.0	7.9	8.0	8.1	8.3	9.3	10.9
62.5°	7.3	7.8	7.0	5.9	7.0	7.8	7.3	6.9	6.6	7.4	8.8
60°	7.2	7.7	7.9	7.9	7.9	7.7	7.2	6.6	6.0	6.5	7.5
57.5°	7.8	7.9	7.9	7.9	7.9	7.9	7.8	7.6	7.2	7.2	7.3
55°	7.9	7.9	8.6	9.8	8.6	7.9	7.9	7.9	7.9	8.2	8.2
52.5°	9.5	9.7	9.8	9.8	9.8	9.7	9.5	9.3	9.1	9.1	9.3
50°	11.5	11.7	11.8	11.8	11.8	11.7	11.5	11.2	11.0	10.8	10.2
47.5°	16.6	16.0	15.6	15.7	15.6	16.0	16.6	16.7	16.4	15.6	13.9
45°	27.4	27.3	27.2	27.5	27.2	27.3	27.4	26.9	38.3	39.9	24.5
42.5°	54.9	49.4	45.2	47.1	45.2	49.4	54.9	56.4	93.2	120.1	128.2
40°	161.5	111.0	64.3	64.8	64.3	111.0	161.5	180.9	164.6	205.6	216.0
37.5°	150.9	121.8	109.9	107.9	109.9	121.8	150.9	189.2	178.8	127.1	159.6
35°	249.0	247.5	236.6	235.5	236.6	247.5	249.0	248.2	231.9	193.8	224.0
32.5°	607.5	632.5	624.4	614.3	624.4	632.5	607.5	581.4	513.9	464.5	461.9
30°	1269.9	1325.2	1314.0	1344.3	1314.0	1325.2	1269.9	1206.2	1072.0	999.0	887.5
27.5°	2106.3	2142.4	2105.1	2094.0	2105.1	2142.4	2106.3	2031.5	1896.5	1769.5	1556.3
25°	3315.1	3385.2	3417.5	3483.5	3417.5	3385.2	3315.1	3124.8	2846.3	2718.0	2498.3
22.5°	7453.4	7887.7	7664.7	7465.5	7664.7	7887.7	7453.4	5936.3	4716.0	4149.7	3692.1
20°	21873.7	25737.0	25452.3	24944.0	25452.3	25737.0	21873.7	15315.6	12112.1	7469.2	5928.3
17.5°	52744.0	64612.7	72004.1	75893.7	72004.1	64612.7	52744.0	37943.7	28481.8	18145.0	10754.7
15°	98398.2	118361.4	130082.8	136730.7	130082.8	118361.4	98398.2	73339.0	52223.6	34774.2	19460.6
12.5°	155216.4	186506.0	207263.8	211232.0	207263.8	186506.0	155216.4	119228.3	81794.5	53588.7	31320.0
10°	217781.0	257855.8	290906.4	302960.4	290906.4	257855.8	217781.0	168952.2	121245.5	77194.3	42243.7
7.5°	271213.2	322353.3	366239.8	381848.9	366239.8	322353.3	271213.2	214408.2	152990.1	97762.5	56422.0
5°	310066.9	377906.2	417630.8	428349.5	417630.8	377906.2	310066.9	242598.4	176834.7	114510.2	64274.0
2.5°	341694.0	406090.2	448680.5	470639.4	448680.5	406090.2	341694.0	260680.4	190406.7	126218.9	70475.9
0°	355599.8	417484.8	463418.2	495635.4	463418.2	417484.8	355599.8	271031.7	198918.8	130725.3	71976.4
-2.5°	338510.6	401796.7	434471.4	448592.2	434471.4	401796.7	338510.6	259238.6	189446.8	125503.7	70667.5
-5°	287804.8	347463.3	380303.8	390737.3	380303.8	347463.3	287804.8	227279.6	167493.3	110072.0	63235.9
-7.5°	224499.7	265831.2	294165.0	304039.8	294165.0	265831.2	224499.7	179058.8	132100.4	87381.0	50798.9
-10°	169043.4	198685.2	213868.8	219000.6	213868.8	198685.2	169043.4	133394.6	97508.7	63798.2	35951.3
-12.5°	116074.4	138388.7	148203.6	154651.6	148203.6	138388.7	116074.4	90566.8	64303.6	42841.7	26394.2
-15°	71400.5	85947.9	93676.2	98088.1	93676.2	85947.9	71400.5	53932.1	39591.5	26068.3	15819.8
-17.5°	43379.5	51287.1	56408.8	58729.2	56408.8	51287.1	43379.5	32946.9	24489.3	15655.5	9743.0
-20°	26931.1	32196.1	35186.6	36901.8	35186.6	32196.1	26931.1	20397.2	14898.1	9469.0	7032.1



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	15129.1	18018.0	19637.8	20202.5	19637.8	18018.0	15129.1	11392.6	8553.7	6848.6	5698.9
-25°	8413.2	9148.4	9470.2	9545.8	9470.2	9148.4	8413.2	7281.2	6194.4	5707.0	5213.6
-27.5°	6420.3	6577.1	6676.4	6706.0	6676.4	6577.1	6420.3	6146.2	5830.0	5539.4	5243.6
-30°	6158.5	6174.9	6202.2	6197.7	6202.2	6174.9	6158.5	6049.2	5934.2	5688.1	5483.7
-32.5°	6205.3	6211.3	6216.8	6207.5	6216.8	6211.3	6205.3	6102.9	5957.6	5777.4	5597.3
-35°	6186.8	6204.6	6218.5	6225.2	6218.5	6204.6	6186.8	6093.4	5922.3	5736.6	5553.3
-37.5°	6072.4	6096.8	6108.8	6097.6	6108.8	6096.8	6072.4	5994.9	5799.9	5597.5	5357.5
-40°	5862.4	5880.1	5881.2	5871.9	5881.2	5880.1	5862.4	5809.0	5586.5	5336.5	4975.5
-42.5°	5618.9	5680.9	5710.1	5711.0	5710.1	5680.9	5618.9	5523.7	5211.4	4799.7	4212.3
-45°	5047.5	5306.2	5459.7	5497.1	5459.7	5306.2	5047.5	4714.0	4187.9	3579.3	2966.3
-47.5°	3445.6	3702.6	3869.8	3932.9	3869.8	3702.6	3445.6	3142.6	2763.5	2348.7	1956.8
-50°	2097.4	2128.5	2142.2	2139.2	2142.2	2128.5	2097.4	2066.5	2024.1	1960.4	1897.7
-52.5°	2056.6	2081.2	2096.5	2103.9	2096.5	2081.2	2056.6	2031.7	1999.2	1934.0	1867.0
-55°	1974.8	2005.7	2021.5	2025.3	2021.5	2005.7	1974.8	1937.4	1891.8	1802.7	1712.0
-57.5°	1731.7	1758.5	1773.9	1780.0	1773.9	1758.5	1731.7	1698.1	1658.2	1582.3	1499.5
-60°	1469.9	1492.3	1502.2	1503.3	1502.2	1492.3	1469.9	1440.6	1404.4	1342.7	1272.7
-62.5°	1206.0	1228.4	1235.8	1234.4	1235.8	1228.4	1206.0	1177.6	1143.4	1094.3	1036.1
-65°	940.3	959.8	963.6	959.7	963.6	959.8	940.3	915.9	886.7	847.7	800.7
-67.5°	687.9	703.1	707.5	706.5	707.5	703.1	687.9	668.9	646.3	617.6	582.9
-70°	458.4	468.2	467.9	463.2	467.9	468.2	458.4	445.2	428.7	407.9	382.6
-72.5°	257.3	264.7	270.7	274.8	270.7	264.7	257.3	248.1	237.2	224.7	210.6
-75°	119.8	122.1	125.2	127.6	125.2	122.1	119.8	116.7	113.0	108.4	102.8
-77.5°	59.6	60.5	61.7	62.8	61.7	60.5	59.6	58.6	57.4	56.1	54.8
-80°	44.2	44.9	45.1	45.1	45.1	44.9	44.2	43.5	42.7	41.8	41.3
-82.5°	33.1	33.3	33.4	33.4	33.4	33.3	33.1	33.0	32.7	32.4	31.6
-85°	23.5	23.6	24.5	25.5	24.5	23.6	23.5	23.5	23.4	23.3	23.2
-87.5°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.5	19.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	16.7	16.2	15.7	15.7	15.7	15.7	15.7	15.2	14.7	14.2	13.7
87.5°	0.9	1.4	1.8	1.8	1.9	1.9	2.0	2.0	2.0	2.0	2.0
85°	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.3	2.3	2.3
80°	2.0	2.0	2.0	2.3	2.5	2.6	2.6	2.9	3.1	3.4	3.6
77.5°	2.0	2.0	2.2	2.8	3.4	3.9	4.2	4.4	4.7	4.9	4.9
75°	3.9	3.9	4.1	4.9	5.4	5.6	5.7	5.6	5.6	5.7	5.9
72.5°	8.0	8.1	8.8	10.2	11.1	11.8	11.9	11.1	9.7	7.5	5.9
70°	11.5	12.6	14.6	17.6	19.7	21.0	21.7	21.2	19.2	17.1	13.1
67.5°	13.3	15.1	18.3	22.3	25.3	28.0	31.3	34.3	34.6	32.4	23.4
65°	12.7	14.7	17.4	20.3	24.0	28.9	36.1	40.6	43.4	44.6	36.7
62.5°	10.2	11.6	13.4	15.9	19.0	24.1	33.2	41.0	47.5	48.9	41.3
60°	8.6	9.9	11.0	12.5	14.2	18.5	27.1	37.0	48.4	47.2	42.3
57.5°	7.6	8.5	9.8	10.9	11.7	14.8	20.7	28.8	39.3	40.5	38.8
55°	8.0	8.3	9.2	10.5	11.8	13.1	15.4	20.5	27.9	30.2	30.7
52.5°	9.7	9.4	9.3	9.5	10.7	12.1	13.2	15.9	18.4	21.6	23.4
50°	9.9	10.2	10.1	9.8	10.8	11.8	12.8	13.7	15.1	16.7	17.9
47.5°	13.6	13.6	12.1	11.6	13.8	13.1	13.9	14.6	15.5	15.0	15.9
45°	29.3	28.6	19.8	20.6	22.3	22.3	18.3	19.5	18.8	17.6	15.6
42.5°	92.2	69.5	60.9	45.1	36.0	36.0	33.9	31.1	28.3	23.4	22.4
40°	154.7	123.7	101.9	83.4	64.9	53.2	56.0	47.7	42.6	36.3	36.1
37.5°	165.2	116.2	135.0	127.9	102.3	96.7	96.7	80.4	59.4	71.8	70.7
35°	202.7	193.3	210.0	204.7	165.1	194.5	176.8	138.3	116.5	129.6	121.6
32.5°	409.6	415.9	393.5	364.3	354.6	350.3	317.5	244.4	232.4	223.3	196.3
30°	782.2	752.4	693.3	656.9	646.0	575.5	507.4	512.6	442.8	342.9	293.1
27.5°	1427.9	1206.2	1117.7	1162.1	1050.5	908.8	892.0	905.0	730.2	553.3	422.7
25°	2314.5	1992.6	1911.7	1884.3	1678.5	1478.9	1432.6	1373.6	1172.7	830.9	584.1
22.5°	3422.5	3109.5	2919.5	2808.5	2538.0	2318.1	2118.6	1901.4	1697.8	1243.9	866.3
20°	4627.8	4247.0	3944.8	3715.9	3478.2	3182.6	2883.0	2508.8	2189.4	1758.2	1208.6
17.5°	6922.5	5410.9	4827.8	4540.5	4310.4	4027.9	3536.9	3052.5	2676.3	2297.2	1586.5
15°	10062.0	6986.4	5695.6	5246.7	4958.2	4504.0	4045.6	3529.6	3154.4	2784.5	2014.1
12.5°	16805.5	8980.5	6465.0	5635.4	5210.9	4829.4	4448.7	3981.6	3531.4	3044.9	2319.0
10°	23102.4	12136.1	7555.5	6019.8	5415.6	5047.4	4666.6	4125.8	3615.7	3182.9	2578.1
7.5°	30520.0	15906.7	8667.1	6321.6	5584.6	5129.3	4665.0	4111.3	3658.0	3276.6	2791.8
5°	35124.2	18480.0	9362.2	6533.1	5701.3	5224.3	4662.5	4035.3	3664.5	3333.5	2960.7
2.5°	37678.2	19860.8	9684.3	6672.3	5776.7	5326.0	4707.7	3998.8	3664.3	3344.8	3012.8
0°	37975.3	20145.5	9645.9	6686.4	5820.9	5416.6	4814.1	4013.4	3656.2	3336.3	3024.3
-2.5°	37281.4	19557.9	9517.3	6629.9	5795.8	5403.6	4990.2	4171.3	3744.8	3374.0	3010.9
-5°	33582.3	17497.9	8886.1	6315.4	5565.0	5218.0	4884.2	4197.4	3746.3	3370.1	2957.1
-7.5°	27470.8	14439.8	7976.2	5919.1	5271.9	4950.5	4612.1	4065.0	3592.0	3237.6	2785.4
-10°	19657.7	10591.1	6815.3	5487.9	4970.2	4667.6	4364.1	3882.1	3423.1	3091.2	2581.6
-12.5°	14301.3	7855.2	5746.2	5008.1	4661.1	4428.1	4173.2	3673.3	3242.0	2932.4	2350.1
-15°	8911.3	6359.1	5257.3	4708.6	4374.7	4203.2	4005.1	3560.0	3207.6	2814.3	2094.5
-17.5°	6837.1	5370.9	4842.0	4496.6	4242.2	4039.7	3849.6	3535.4	3193.5	2716.7	1868.8
-20°	5590.6	5075.4	4669.0	4375.8	4176.8	4002.6	3770.2	3525.6	3143.2	2456.9	1650.1



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5258.7	4980.6	4659.8	4358.7	4127.8	3929.2	3707.4	3459.9	3059.8	2113.8	1410.4
-25°	5121.8	4980.7	4738.2	4479.5	4143.4	3849.7	3631.0	3305.9	2639.7	1774.8	1189.4
-27.5°	5169.3	5055.7	4905.1	4626.7	4263.9	3832.5	3486.0	3067.9	2160.2	1488.1	1176.1
-30°	5349.7	5201.5	5017.6	4775.3	4353.4	3887.6	3356.4	2516.1	1775.4	1254.0	1166.5
-32.5°	5473.5	5245.1	5028.1	4779.1	4390.8	3872.7	2896.4	1993.4	1395.7	1241.0	1166.2
-35°	5377.0	5102.7	4819.9	4572.7	4350.3	3267.1	2275.0	1575.6	1308.4	1228.4	1163.7
-37.5°	5086.0	4749.4	4459.8	4128.1	3324.6	2446.2	1704.2	1401.1	1299.3	1218.6	1121.8
-40°	4612.0	4279.2	3657.2	2979.4	2341.3	1695.1	1493.8	1396.8	1304.0	1181.6	1059.5
-42.5°	3684.7	3118.6	2583.6	2062.3	1634.6	1568.6	1491.5	1404.6	1285.5	1131.4	988.9
-45°	2547.8	2134.9	1741.4	1684.5	1622.6	1561.1	1501.0	1374.5	1225.2	1066.7	916.5
-47.5°	1844.0	1790.0	1734.8	1678.5	1619.1	1545.3	1429.6	1302.0	1139.4	988.1	856.3
-50°	1833.2	1774.5	1719.9	1655.3	1545.3	1435.6	1316.2	1187.7	1040.9	908.3	784.4
-52.5°	1792.0	1699.7	1607.3	1513.3	1408.9	1294.8	1177.3	1062.8	939.3	816.0	699.7
-55°	1620.6	1528.7	1437.6	1345.9	1254.1	1150.1	1044.4	935.7	825.2	712.7	611.6
-57.5°	1413.7	1330.3	1252.6	1174.7	1097.4	999.6	896.9	797.3	704.0	608.1	519.7
-60°	1201.1	1130.3	1060.1	987.2	912.2	828.4	740.4	656.4	576.9	505.6	434.4
-62.5°	974.4	909.9	850.0	787.9	722.5	652.6	584.7	526.1	467.5	406.3	339.1
-65°	750.3	697.2	644.6	598.5	553.2	508.5	457.7	403.1	347.3	292.4	237.0
-67.5°	546.3	508.1	472.2	436.9	398.4	357.5	310.9	264.1	226.7	191.7	153.2
-70°	354.7	324.5	294.3	263.5	237.6	214.2	188.0	159.7	130.2	109.3	91.8
-72.5°	195.1	178.2	161.1	143.9	125.2	113.3	102.2	89.5	76.0	61.7	51.2
-75°	96.7	89.9	83.0	76.1	68.3	59.7	54.9	51.6	48.4	45.2	41.9
-77.5°	53.3	51.9	50.3	48.7	46.8	44.7	42.4	40.1	38.2	36.3	34.4
-80°	40.6	39.7	38.7	37.2	35.7	34.2	32.6	31.3	30.0	29.0	27.9
-82.5°	30.8	30.0	29.2	28.4	27.6	26.9	26.2	25.4	24.6	23.6	22.5
-85°	23.0	22.8	22.5	22.3	22.0	21.7	21.4	20.9	20.3	19.8	19.3
-87.5°	18.5	18.0	17.5	17.5	17.4	17.4	17.3	17.2	17.0	16.8	16.5
-90°	0.0	0.0	0.0	0.5	1.0	1.5	2.0	2.0	2.0	2.0	2.0



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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°	13.2	12.8	12.3	11.8	11.8	11.8	11.8	11.8	11.3	10.8	10.3
87.5°	2.3	2.6	2.9	3.1	3.2	3.4	3.6	3.9	4.1	4.2	4.4
85°	2.5	3.0	3.4	3.9	3.9	3.9	3.9	3.9	4.3	4.6	4.8
82.5°	2.6	3.0	3.5	3.9	4.2	4.4	4.5	4.5	4.6	5.0	5.3
80°	3.5	3.5	3.7	4.0	4.5	5.0	5.2	5.3	5.2	5.3	5.5
77.5°	4.6	4.3	4.0	4.0	4.5	5.0	5.5	5.9	5.8	5.6	5.7
75°	5.9	5.6	5.2	4.8	4.8	5.1	5.6	5.9	5.9	5.9	5.8
72.5°	5.9	5.9	5.9	5.9	5.5	5.5	5.7	5.9	5.9	5.9	5.9
70°	9.2	6.5	5.9	5.9	5.9	5.9	5.8	6.0	5.9	5.9	5.9
67.5°	14.9	10.5	7.5	6.2	5.9	5.9	5.9	6.1	6.2	5.9	5.9
65°	26.1	16.9	9.6	8.0	6.6	5.9	5.9	6.3	6.5	6.3	5.9
62.5°	33.8	25.4	16.7	10.9	8.0	6.7	5.9	6.4	6.9	6.8	6.3
60°	37.3	29.5	23.2	16.8	11.0	7.7	6.7	6.5	7.0	7.3	6.8
57.5°	34.5	31.5	26.9	21.5	15.5	10.0	7.6	7.1	7.0	7.5	7.4
55°	29.4	27.5	28.7	24.9	19.1	13.3	9.3	7.9	7.3	7.6	7.9
52.5°	23.2	24.8	27.4	26.9	22.2	16.3	12.0	8.7	8.0	7.7	8.1
50°	18.5	22.2	26.2	27.4	24.8	19.4	14.4	10.7	8.7	7.9	8.2
47.5°	17.1	20.7	24.2	28.0	26.6	22.4	17.0	12.5	9.4	8.5	8.3
45°	18.9	20.3	23.2	26.5	28.9	24.7	19.7	14.1	10.8	9.2	8.4
42.5°	23.1	23.4	23.5	25.3	28.4	26.7	22.2	16.3	12.0	9.9	8.8
40°	33.2	29.6	25.7	27.8	28.4	28.5	24.0	18.4	13.0	10.8	9.4
37.5°	46.2	40.1	33.0	34.8	30.9	29.3	25.6	20.5	14.6	11.9	10.1
35°	89.3	54.7	56.3	51.8	40.7	30.8	27.2	22.2	17.0	13.0	10.8
32.5°	144.9	105.3	103.7	80.0	53.9	33.0	28.8	24.6	19.4	14.1	11.5
30°	237.8	218.9	172.5	115.5	74.3	45.3	31.9	27.2	21.8	15.1	12.3
27.5°	384.2	354.1	266.3	179.0	108.4	61.3	37.5	29.9	24.3	16.5	13.2
25°	532.4	494.0	396.5	263.1	147.3	95.2	44.4	32.9	26.6	18.5	14.0
22.5°	680.4	630.2	540.8	359.9	206.1	138.8	62.2	38.3	28.9	20.4	14.8
20°	821.7	765.5	685.8	440.8	277.7	190.7	94.1	44.3	31.3	22.3	15.5
17.5°	986.0	868.5	748.6	526.1	348.9	242.8	130.9	50.9	33.7	24.1	16.2
15°	1238.6	930.3	805.4	601.9	410.5	294.6	171.4	57.8	36.1	25.8	16.8
12.5°	1468.1	987.9	861.6	668.6	463.5	345.7	214.4	65.0	38.4	27.3	17.4
10°	1682.7	1041.2	916.0	726.1	508.6	395.4	258.3	72.3	41.3	28.5	18.0
7.5°	1877.2	1090.1	967.5	774.8	543.8	427.9	287.9	79.6	44.4	29.5	18.5
5°	2030.5	1128.8	1010.0	809.5	557.3	440.2	311.3	86.4	47.5	30.3	18.9
2.5°	2081.2	1153.5	1044.0	836.4	567.7	448.4	330.0	92.6	50.4	30.9	19.3
0°	2092.1	1173.6	1071.6	855.7	575.0	453.3	343.4	98.1	53.0	31.4	19.6
-2.5°	2081.7	1175.9	1072.8	872.1	597.6	467.2	355.6	122.3	69.8	40.9	24.2
-5°	2034.3	1174.5	1068.5	880.4	616.1	478.4	363.0	145.2	85.9	50.0	28.6
-7.5°	1908.6	1158.5	1053.8	879.4	629.8	486.9	366.6	166.3	100.8	58.5	32.7
-10°	1746.3	1131.8	1026.2	860.7	638.8	497.4	367.9	185.4	114.2	66.1	36.4
-12.5°	1562.7	1101.4	998.9	839.7	644.5	509.3	371.2	201.6	125.8	72.6	39.6
-15°	1362.3	1067.4	973.5	818.0	647.4	518.5	370.9	214.8	135.7	79.0	42.1
-17.5°	1156.0	1029.8	951.4	797.2	647.7	524.9	367.5	224.8	143.9	85.4	45.0
-20°	1116.7	1014.0	931.1	778.7	645.6	528.7	361.1	231.3	150.3	90.1	47.9



REPORT NUMBER: P731718 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1107.2	1019.1	915.0	769.3	643.4	529.7	352.0	234.0	154.9	93.2	49.6
-25°	1097.3	1025.2	897.9	758.4	640.8	514.2	347.1	232.8	157.5	94.4	50.0
-27.5°	1098.2	1023.7	876.0	740.2	626.2	496.2	344.4	234.5	158.3	93.6	49.1
-30°	1105.3	994.8	850.3	716.5	606.4	466.6	336.3	234.0	157.2	92.1	46.9
-32.5°	1097.9	961.1	816.7	690.7	573.8	435.6	319.5	230.9	153.3	89.4	45.4
-35°	1049.3	915.5	775.3	658.7	536.4	411.2	301.8	225.0	146.5	84.7	43.7
-37.5°	995.4	860.6	734.5	619.5	498.2	383.8	287.7	211.2	136.9	77.8	41.0
-40°	932.2	806.1	689.6	577.0	463.3	353.4	270.0	194.0	126.5	68.8	37.3
-42.5°	866.1	753.6	641.6	533.7	426.8	329.8	248.6	174.0	112.1	61.6	32.5
-45°	805.7	696.8	589.1	487.7	388.7	302.2	223.3	151.9	95.5	55.0	28.8
-47.5°	740.3	634.2	533.9	438.2	352.9	270.5	194.8	131.1	77.4	46.9	27.7
-50°	667.1	569.1	476.4	391.0	311.8	235.0	164.7	108.2	66.2	37.3	26.3
-52.5°	594.8	503.0	419.9	342.5	267.1	195.9	136.2	84.4	54.1	32.7	24.7
-55°	518.5	438.2	363.5	289.2	218.6	159.2	105.5	69.3	41.0	30.3	23.0
-57.5°	444.0	372.9	300.5	231.3	172.3	121.0	81.8	53.0	35.5	27.7	22.4
-60°	365.5	297.3	232.1	176.6	126.7	88.9	61.9	40.1	32.1	25.3	21.6
-62.5°	275.7	218.7	170.2	122.8	89.7	64.6	43.8	35.8	28.5	24.2	20.8
-65°	192.6	149.5	109.4	84.9	61.6	44.5	38.4	31.3	26.5	23.0	19.8
-67.5°	115.6	94.7	73.7	52.6	43.8	38.3	32.6	28.5	25.0	21.8	18.9
-70°	73.7	55.5	46.7	41.9	36.9	32.4	29.6	26.5	23.3	20.4	17.8
-72.5°	47.2	43.1	38.8	34.6	31.9	29.3	27.0	24.4	21.6	19.0	16.7
-75°	38.3	35.4	32.9	30.5	28.2	26.2	24.3	22.2	19.8	17.6	15.6
-77.5°	32.1	30.1	28.1	26.5	24.9	23.3	21.7	20.0	18.0	16.3	14.5
-80°	26.6	25.4	24.3	23.2	21.9	20.5	19.3	18.2	16.6	15.1	13.4
-82.5°	21.8	21.2	20.6	19.9	19.0	18.1	17.4	16.7	15.2	13.8	12.5
-85°	18.7	18.1	17.4	16.6	16.1	15.7	15.4	15.1	13.9	12.8	11.8
-87.5°	15.9	15.3	14.7	14.0	13.9	13.7	13.6	13.4	12.6	11.8	11.0
-90°	2.0	2.0	2.0	2.0	2.5	3.0	3.4	3.9	3.9	3.9	3.9



REPORT NUMBER: P731718 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	9.8	9.3	8.9	8.4	7.9	6.9	5.9
87.5°	4.4	4.7	5.1	5.5	5.9	5.9	5.9
85°	4.9	5.1	5.3	5.5	5.9	6.0	5.9
82.5°	5.5	5.4	5.4	5.6	5.9	6.0	5.9
80°	5.9	5.7	5.6	5.7	5.9	6.1	5.9
77.5°	5.9	5.9	5.8	5.7	5.9	6.1	5.9
75°	6.0	6.1	5.9	5.8	5.9	6.2	5.9
72.5°	6.0	6.2	6.1	5.9	6.0	6.2	5.9
70°	6.1	6.4	6.3	5.9	6.0	6.3	5.9
67.5°	6.1	6.5	6.5	6.1	6.0	6.3	5.9
65°	6.2	6.6	6.7	6.3	6.1	6.4	5.9
62.5°	6.2	6.7	6.9	6.5	6.1	6.4	5.9
60°	6.3	6.7	7.2	6.7	6.2	6.5	5.9
57.5°	6.7	6.8	7.2	7.0	6.3	6.5	5.9
55°	7.2	6.8	7.3	7.2	6.5	6.6	5.9
52.5°	7.7	7.0	7.3	7.4	6.7	6.6	5.9
50°	8.2	7.4	7.4	7.6	6.8	6.7	5.9
47.5°	8.6	7.7	7.4	7.8	6.9	6.8	5.9
45°	8.7	8.1	7.5	7.8	7.1	6.8	5.9
42.5°	8.8	8.5	7.5	7.9	7.2	6.9	5.9
40°	8.9	8.9	7.7	7.9	7.3	6.9	5.9
37.5°	9.0	9.2	8.0	8.0	7.4	7.0	5.9
35°	9.1	9.4	8.3	8.0	7.5	7.1	5.9
32.5°	9.3	9.5	8.5	8.1	7.6	7.1	5.9
30°	9.9	9.5	8.8	8.2	7.6	7.2	5.9
27.5°	10.5	9.6	9.0	8.3	7.7	7.3	5.9
25°	11.1	9.7	9.2	8.4	7.7	7.3	5.9
22.5°	11.6	9.8	9.3	8.5	7.8	7.4	5.9
20°	12.2	10.0	9.5	8.7	7.8	7.5	5.9
17.5°	12.8	10.2	9.6	8.8	7.8	7.5	5.9
15°	13.3	10.4	9.7	8.9	7.9	7.6	5.9
12.5°	13.8	10.6	9.7	9.1	7.9	7.6	5.9
10°	14.3	10.8	9.8	9.2	7.9	7.7	5.9
7.5°	14.7	11.1	9.8	9.4	7.9	7.8	5.9
5°	15.1	11.3	9.8	9.5	7.9	7.8	5.9
2.5°	15.4	11.6	9.8	9.7	7.9	7.9	5.9
0°	15.7	11.8	9.8	9.8	7.9	7.9	5.9
-2.5°	17.3	12.4	10.1	9.9	8.0	7.9	5.9
-5°	18.7	13.1	10.5	10.0	8.1	8.0	5.9
-7.5°	20.1	13.6	10.8	10.1	8.1	8.0	5.9
-10°	21.3	14.2	11.1	10.2	8.2	8.0	5.9
-12.5°	22.4	14.7	11.4	10.3	8.3	8.1	5.9
-15°	23.3	15.1	11.7	10.4	8.4	8.1	5.9
-17.5°	23.9	15.5	12.0	10.4	8.5	8.1	5.9
-20°	24.7	15.8	12.2	10.5	8.6	8.1	5.9



REPORT NUMBER: P731718 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	25.6	16.0	12.4	10.5	8.6	8.1	5.9
-25°	26.0	16.3	12.5	10.5	8.7	8.1	5.9
-27.5°	25.8	16.5	12.6	10.5	8.8	8.1	5.9
-30°	25.0	16.5	12.7	10.5	8.9	8.1	5.9
-32.5°	23.5	16.5	12.9	10.5	8.9	8.1	5.9
-35°	22.9	16.4	13.0	10.4	9.0	8.1	5.9
-37.5°	22.7	16.2	13.0	10.4	9.1	8.1	5.9
-40°	22.3	16.3	13.1	10.3	9.1	8.1	5.9
-42.5°	21.7	16.3	13.1	10.3	9.2	8.0	5.9
-45°	21.0	16.3	13.0	10.2	9.2	8.0	5.9
-47.5°	20.0	16.2	12.9	10.2	9.3	8.0	5.9
-50°	19.7	16.0	12.8	10.2	9.4	7.9	5.9
-52.5°	19.4	15.8	12.6	10.3	9.4	7.9	5.9
-55°	19.0	15.5	12.4	10.4	9.5	7.8	5.9
-57.5°	18.5	15.2	12.2	10.4	9.5	7.8	5.9
-60°	18.0	14.8	12.0	10.4	9.5	7.7	5.9
-62.5°	17.4	14.3	11.9	10.4	9.4	7.7	5.9
-65°	16.8	13.9	11.7	10.3	9.3	7.6	5.9
-67.5°	16.1	13.4	11.5	10.3	9.2	7.6	5.9
-70°	15.3	13.0	11.3	10.2	9.1	7.5	5.9
-72.5°	14.5	12.5	11.1	10.0	9.0	7.4	5.9
-75°	13.7	12.0	10.8	9.8	8.8	7.4	5.9
-77.5°	12.8	11.5	10.5	9.6	8.7	7.3	5.9
-80°	11.9	11.0	10.2	9.4	8.5	7.2	5.9
-82.5°	11.3	10.6	9.8	9.1	8.4	7.1	5.9
-85°	10.8	10.2	9.5	8.9	8.2	7.1	5.9
-87.5°	10.3	9.8	9.2	8.6	8.1	7.0	5.9
-90°	3.9	4.4	4.9	5.4	5.9	5.9	5.9

(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

