

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: P731594 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-70-1S-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731594 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680N-40-70-1S-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 1S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

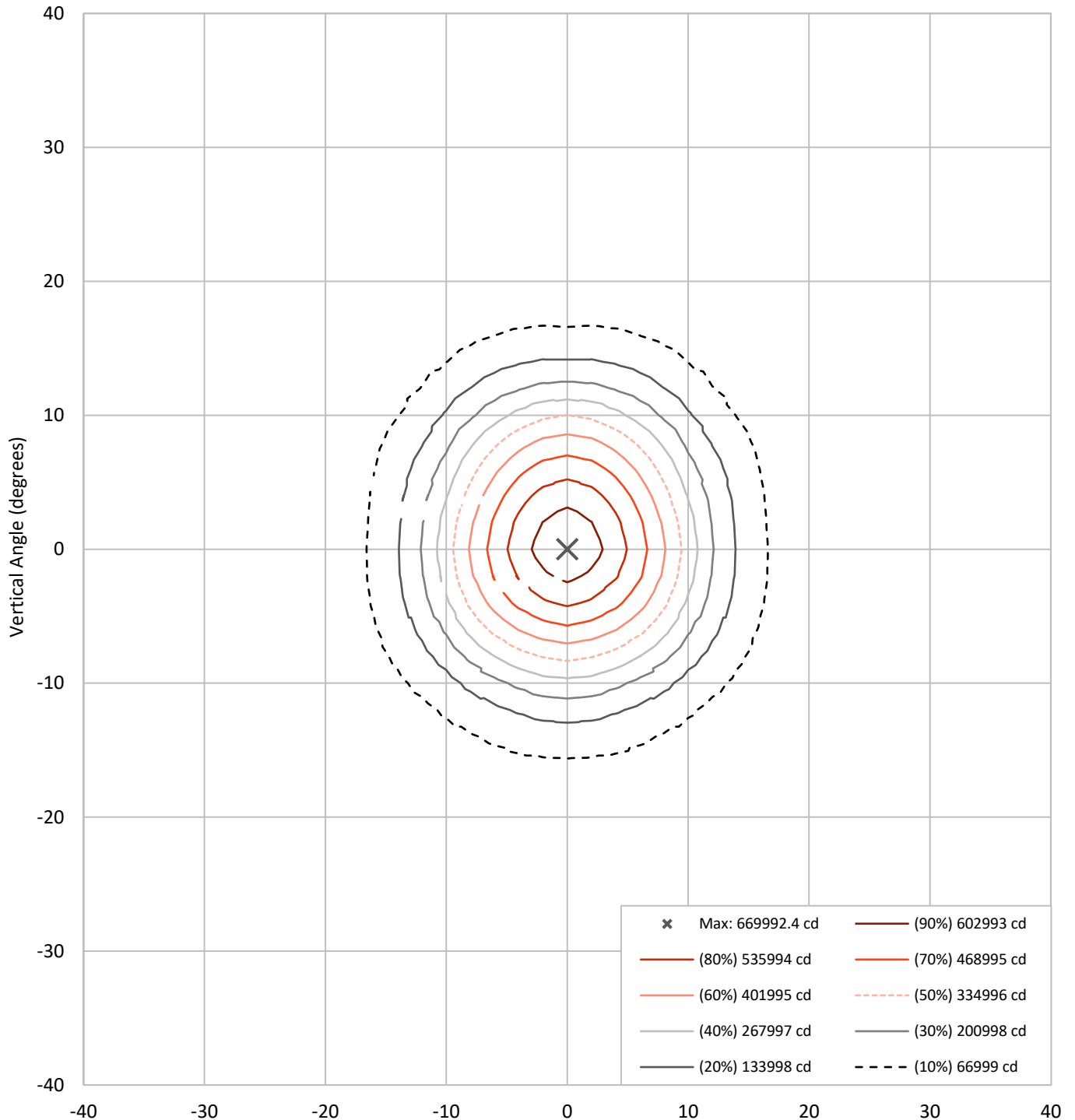
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	80701.6 lumens	Max Intensity:	669992.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	111.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.9°H x 18.3°V	Field Angle (10%):	33°H x 31.9°V
Beam Lumens:	37653 lumens	Field Lumens:	68388.2 lumens
Beam Efficiency:	46.7%	Field Efficiency:	84.7%

Input Watts (W): 724.3
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





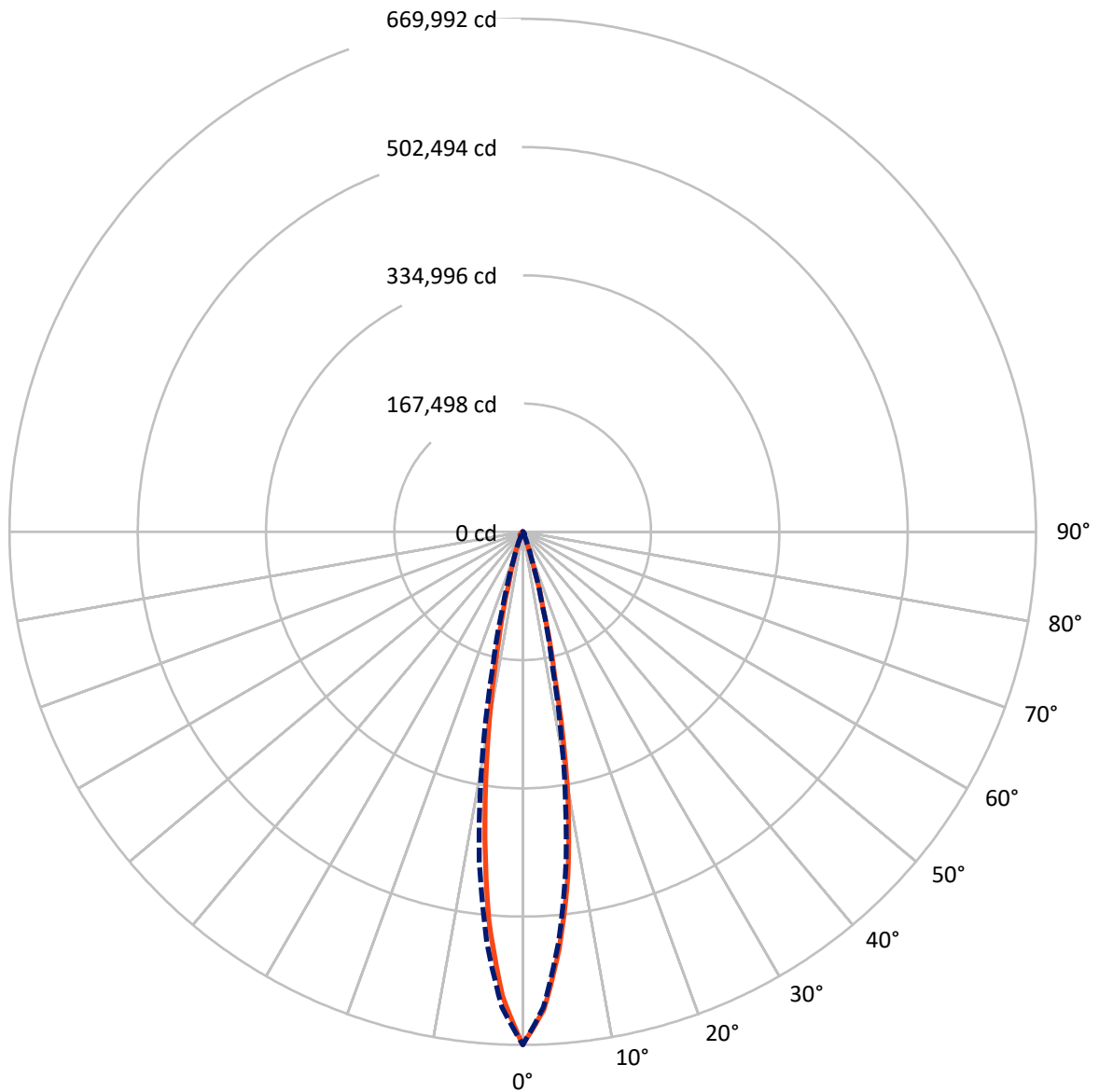
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Lumen Table

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	0.6	0.7	0.5	0.3	0.3	0.3	0.3	0.5	0.7	0.6	0.2	0.1	0.1		
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	0.6	0.9	1.3	1.0	1.0	1.3	0.9	0.6	0.5	0.5	0.2	0.2		
40		0.3	0.9	2.2	4.5	6.4	9.1	11.3	11.3	9.1	6.4	4.5	2.2	0.9	0.3			
30	0.3	0.6	4.4	14.0	32.9	44.8	71.6	127.8	127.8	71.6	44.8	32.9	14.0	4.4	0.6	0.3		
20		1.4	9.4	40.3	81.1	107.4	784.9	3163.0	3163.0	784.9	107.4	81.1	40.3	9.4	1.4			
10	0.4	2.2	12.0	54.3	90.2	197.2	2940.6	12699.1	12699.1	2940.6	197.2	90.2	54.3	12.0	2.2	0.4		
0		2.7	12.7	53.4	90.1	191.5	2813.2	11764.0	11764.0	2813.2	191.5	90.1	53.4	12.7	2.7			
-10	0.6	3.2	12.2	42.7	83.0	104.8	626.5	2348.7	2348.7	626.5	104.8	83.0	42.7	12.2	3.2	0.6		
-20		3.3	11.9	29.6	82.2	103.1	116.8	201.6	201.6	116.8	103.1	82.2	29.6	11.9	3.3			
-30	0.5	2.9	10.8	20.9	58.4	121.0	141.6	146.0	146.0	141.6	121.0	58.4	20.9	10.8	2.9	0.5		
-40		2.0	8.2	18.4	30.9	55.6	100.9	136.9	136.9	100.9	55.6	30.9	18.4	8.2	2.0			
-50	0.3	1.0	4.8	12.4	23.6	34.4	43.3	48.7	48.7	43.3	34.4	23.6	12.4	4.8	1.0	0.3		
-60		0.5	1.6	4.9	10.2	16.6	23.0	26.8	26.8	23.0	16.6	10.2	4.9	1.6	0.5			
-70	0.2	1.3	3.6	8.4	11.4	8.4	3.6	1.3	0.2	0.2								
-80		1.3	3.6	8.4	11.4	8.4	3.6	1.3	0.2									
-90	0.2		1.3		3.6		8.4		11.4		8.4		3.6		1.3		0.2	

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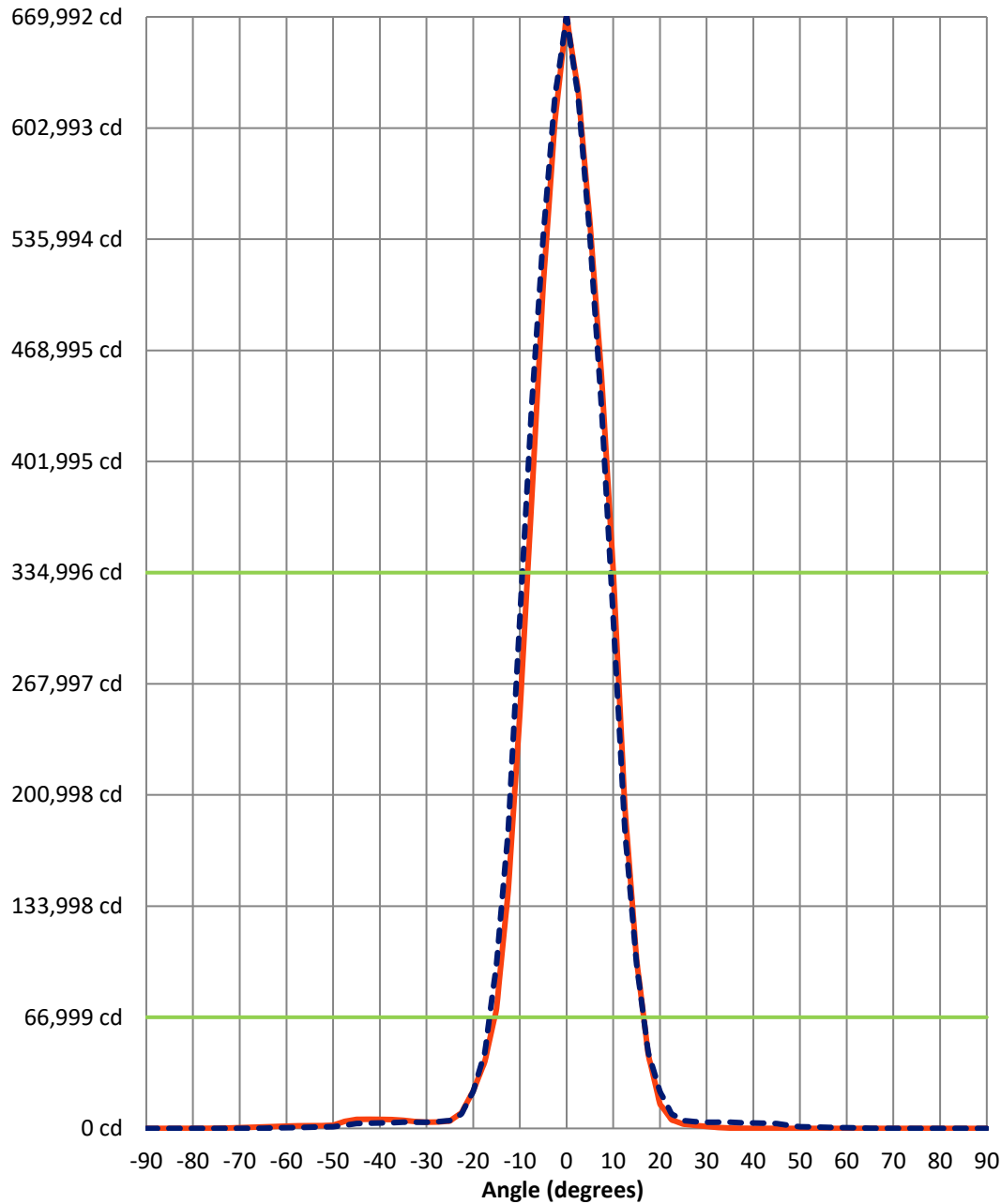
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 18.9°
 V Angle: 18.3°
 Lumens: 37653
 Efficiency: 46.7%

Field:
 H Angle: 33°
 V Angle: 31.9°
 Lumens: 68388.2
 Efficiency: 84.7%

Spill:
 Lumens: 12313.5
 Efficiency: 15.3%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.8	4.8	4.8	5.6	6.5	7.3	8.1	8.9	9.7	10.5	11.3
87.5°	4.8	4.8	4.8	4.5	4.1	3.9	3.6	3.6	3.5	3.4	3.2
85°	4.8	4.9	4.8	4.5	4.3	4.1	4.0	3.9	3.8	3.5	3.2
82.5°	4.8	4.9	4.8	4.6	4.4	4.4	4.4	4.3	4.1	3.9	3.7
80°	4.8	4.9	4.8	4.6	4.6	4.6	4.9	4.8	4.6	4.5	4.3
77.5°	4.8	5.0	4.8	4.7	4.7	4.9	5.3	5.3	5.2	5.1	4.9
75°	4.8	5.0	4.8	4.7	4.9	5.3	5.7	5.8	5.8	5.3	4.9
72.5°	4.8	5.1	4.8	4.8	5.1	5.6	6.1	6.2	5.8	5.4	5.0
70°	4.8	5.1	4.9	4.8	5.4	6.0	6.5	6.2	5.8	5.4	5.6
67.5°	4.8	5.1	4.9	5.0	5.7	6.3	6.5	6.3	5.9	6.1	6.3
65°	4.8	5.2	4.9	5.3	6.0	6.6	6.6	6.3	6.5	6.7	6.9
62.5°	4.8	5.2	5.0	5.4	6.2	6.7	6.7	6.7	7.0	7.3	7.1
60°	4.8	5.3	5.0	5.6	6.5	6.8	6.8	7.2	7.6	7.7	7.4
57.5°	4.8	5.3	5.2	5.8	6.6	7.0	7.2	7.7	8.1	8.1	8.0
55°	4.8	5.4	5.4	6.0	6.8	7.1	7.6	8.1	8.5	8.6	8.8
52.5°	4.8	5.4	5.5	6.2	7.0	7.3	8.0	8.6	9.1	9.3	9.5
50°	4.8	5.5	5.7	6.4	7.2	7.7	8.4	9.2	9.6	10.0	11.0
47.5°	4.8	5.5	5.8	6.5	7.3	8.0	8.8	9.7	10.2	10.7	12.5
45°	4.8	5.6	6.0	6.7	7.5	8.3	9.3	10.3	10.8	11.8	13.8
42.5°	4.8	5.6	6.1	6.8	7.7	8.6	9.8	10.8	11.4	12.9	16.3
40°	4.8	5.7	6.3	7.0	8.0	8.9	10.3	11.4	12.2	14.0	18.9
37.5°	4.8	5.7	6.4	7.2	8.2	9.2	10.9	11.9	13.2	15.5	21.2
35°	4.8	5.8	6.6	7.4	8.4	9.6	11.4	12.3	14.2	17.8	23.1
32.5°	4.8	5.8	6.7	7.7	8.6	10.0	11.9	12.8	15.3	20.0	25.1
30°	4.8	5.9	6.9	7.8	8.8	10.4	12.3	13.4	16.4	22.1	27.5
27.5°	4.8	6.0	7.0	8.0	9.1	10.9	12.7	14.3	17.7	24.1	30.2
25°	4.8	6.0	7.1	8.2	9.3	11.3	13.1	15.1	19.4	26.2	33.2
22.5°	4.8	6.1	7.2	8.4	9.6	11.7	13.5	16.0	20.9	28.5	37.8
20°	4.8	6.1	7.4	8.6	9.8	12.0	13.8	16.8	22.4	31.0	42.8
17.5°	4.8	6.2	7.5	8.8	10.0	12.2	14.1	17.6	23.8	33.5	48.1
15°	4.8	6.2	7.6	8.9	10.2	12.4	14.4	18.3	25.0	36.0	53.6
12.5°	4.8	6.3	7.7	9.1	10.4	12.6	14.8	18.9	26.2	38.6	59.2
10°	4.8	6.3	7.8	9.2	10.6	12.7	15.1	19.5	27.3	41.0	64.8
7.5°	4.8	6.4	7.9	9.3	10.8	12.8	15.4	19.9	28.3	43.2	70.2
5°	4.8	6.4	7.9	9.5	11.0	12.9	15.7	20.4	29.2	45.2	75.2
2.5°	4.8	6.5	8.0	9.6	11.2	12.9	16.0	20.7	30.0	47.0	79.9
0°	4.8	6.5	8.1	9.7	11.3	12.9	16.2	21.0	30.7	48.5	84.0
-2.5°	4.8	6.5	8.2	9.8	11.6	13.6	17.7	25.0	39.4	64.0	108.1
-5°	4.8	6.6	8.2	9.9	11.8	14.3	19.1	28.9	47.8	78.8	130.9
-7.5°	4.8	6.6	8.3	10.0	12.1	14.9	20.5	32.5	55.5	92.7	152.1
-10°	4.8	6.6	8.3	10.0	12.3	15.5	21.7	35.7	62.5	105.1	171.2
-12.5°	4.8	6.6	8.4	10.1	12.5	16.1	22.8	38.5	68.5	116.1	187.2
-15°	4.8	6.6	8.4	10.2	12.6	16.5	23.7	40.6	74.2	125.9	200.2
-17.5°	4.8	6.7	8.4	10.2	12.8	16.9	24.4	43.2	79.7	133.9	210.4
-20°	4.8	6.7	8.5	10.2	12.9	17.2	25.2	45.6	83.8	140.0	217.3



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.8	6.7	8.5	10.3	12.9	17.4	26.1	47.0	86.3	143.9	220.8
-25°	4.8	6.6	8.5	10.3	12.9	17.5	26.5	47.3	87.1	145.5	220.6
-27.5°	4.8	6.6	8.5	10.3	12.9	17.6	26.4	46.4	86.1	145.4	221.7
-30°	4.8	6.6	8.5	10.3	12.8	17.6	25.8	44.2	84.5	144.0	219.9
-32.5°	4.8	6.6	8.5	10.2	12.8	17.4	24.7	43.0	82.0	140.0	214.9
-35°	4.8	6.6	8.4	10.2	12.7	17.2	24.1	41.7	77.6	133.4	206.7
-37.5°	4.8	6.5	8.4	10.2	12.6	16.9	23.8	39.5	71.3	124.1	193.5
-40°	4.8	6.5	8.4	10.1	12.5	16.8	23.3	36.5	63.1	114.5	178.2
-42.5°	4.8	6.5	8.3	10.1	12.4	16.5	22.6	32.7	57.0	102.0	160.0
-45°	4.8	6.4	8.3	10.0	12.3	16.2	21.7	29.6	51.6	87.5	139.8
-47.5°	4.8	6.3	8.2	10.0	12.3	15.7	20.7	28.4	45.1	71.5	121.3
-50°	4.8	6.3	8.2	9.9	12.2	15.2	20.0	27.0	37.3	62.4	100.7
-52.5°	4.8	6.2	8.1	9.8	12.0	14.7	19.3	25.3	33.4	52.4	79.4
-55°	4.8	6.2	8.0	9.7	11.9	14.4	18.4	23.5	31.1	41.5	66.6
-57.5°	4.8	6.1	8.0	9.5	11.7	14.1	17.4	22.3	28.6	36.6	52.7
-60°	4.8	6.0	7.9	9.4	11.4	13.8	16.5	21.0	26.2	33.4	41.5
-62.5°	4.8	5.9	7.7	9.2	11.1	13.4	16.0	19.6	24.7	30.0	37.5
-65°	4.8	5.8	7.5	9.0	10.7	13.0	15.4	18.4	23.0	27.8	33.3
-67.5°	4.8	5.7	7.2	8.7	10.3	12.5	14.8	17.7	21.3	25.9	30.5
-70°	4.8	5.6	7.0	8.5	9.9	11.8	14.2	16.8	20.1	23.9	28.3
-72.5°	4.8	5.5	6.7	8.2	9.4	11.1	13.2	15.9	18.9	22.2	26.0
-75°	4.8	5.4	6.5	7.8	8.9	10.3	12.1	14.7	17.5	20.4	23.7
-77.5°	4.8	5.3	6.2	7.4	8.5	9.5	11.0	13.4	16.0	18.6	21.3
-80°	4.8	5.2	5.9	7.1	8.1	9.0	9.8	12.1	14.5	16.9	19.3
-82.5°	4.8	5.1	5.7	6.7	7.7	8.6	9.3	11.0	13.0	15.2	17.3
-85°	4.8	5.0	5.4	6.4	7.3	8.1	8.9	10.3	11.9	13.6	15.4
-87.5°	4.8	4.9	5.1	6.0	6.9	7.7	8.5	9.6	10.8	12.1	13.4
-90°	4.8	4.8	4.8	4.4	4.0	3.6	3.2	3.2	3.2	3.2	3.2



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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°	11.3	11.3	11.3	11.3	11.7	12.1	12.5	12.9	13.3	13.7	14.1
87.5°	3.0	2.8	2.6	2.5	2.3	2.1	1.9	1.6	1.6	1.6	1.6
85°	3.2	3.2	3.2	3.2	2.9	2.6	2.4	2.3	2.2	2.0	1.8
82.5°	3.7	3.6	3.5	3.2	3.1	3.1	3.2	3.2	2.9	2.7	2.5
80°	4.3	4.1	3.8	3.7	3.7	3.7	3.5	3.3	3.2	3.3	3.5
77.5°	4.6	4.4	4.4	4.6	4.5	4.2	4.1	4.1	4.3	4.5	4.7
75°	4.7	4.8	4.9	4.9	4.7	4.7	4.8	5.2	5.4	5.4	5.2
72.5°	5.1	5.3	5.3	5.0	5.2	5.6	6.0	6.3	7.1	8.0	8.8
70°	5.8	5.8	5.7	5.8	6.2	6.8	8.2	10.0	11.8	13.8	16.8
67.5°	6.4	6.2	6.3	6.7	7.8	9.3	11.3	17.8	25.3	28.5	29.4
65°	6.5	6.4	7.1	8.2	9.6	14.7	21.8	30.6	38.9	39.8	38.4
62.5°	6.6	7.2	8.2	10.5	15.3	22.2	29.9	38.3	47.6	48.0	42.1
60°	7.3	8.0	10.4	15.0	20.6	26.8	35.3	42.0	49.7	53.4	40.7
57.5°	8.1	9.5	13.5	19.0	24.7	29.3	33.8	40.8	44.9	45.6	33.6
55°	9.4	11.5	16.6	22.9	27.0	26.0	29.7	33.6	35.2	32.7	23.4
52.5°	11.2	13.8	20.4	25.7	26.6	24.4	24.4	26.2	24.4	21.0	18.3
50°	13.0	17.8	23.8	27.3	26.5	23.2	19.7	19.3	18.6	17.5	15.8
47.5°	16.0	21.6	26.8	28.8	25.5	22.2	17.9	17.3	17.3	16.6	15.1
45°	19.2	24.6	29.9	28.0	24.9	21.6	19.9	17.8	17.8	17.9	19.0
42.5°	22.3	27.1	29.7	27.3	25.2	24.3	23.9	21.3	21.1	25.5	27.1
40°	24.3	29.2	29.7	29.3	27.1	29.3	30.0	30.2	31.6	36.3	38.5
37.5°	26.0	30.0	31.9	34.9	32.8	36.3	38.0	55.6	57.8	48.8	67.0
35°	27.4	31.5	39.6	48.4	51.2	45.5	68.7	92.9	101.3	95.8	116.4
32.5°	28.9	33.7	50.1	71.1	90.3	85.4	107.9	149.9	176.7	190.3	206.7
30°	31.9	43.4	66.4	100.0	149.7	179.5	181.2	225.7	275.0	362.5	441.5
27.5°	36.9	56.3	94.2	155.0	231.5	293.7	305.3	334.0	446.8	612.4	820.8
25°	42.6	87.4	126.1	229.6	342.4	412.4	432.7	481.6	677.4	1057.1	1263.0
22.5°	58.5	129.0	180.2	316.7	466.7	527.2	569.7	747.4	1100.8	1602.7	1757.3
20°	88.4	177.1	247.3	391.4	592.3	640.6	704.5	1085.7	1652.1	2070.1	2280.2
17.5°	123.7	225.7	314.4	465.2	642.0	731.3	866.5	1473.0	2221.6	2521.8	2740.4
15°	163.1	274.4	372.6	530.1	685.9	791.6	1120.4	1923.3	2703.3	2951.7	3165.6
12.5°	205.3	322.6	422.7	586.6	729.3	847.7	1351.5	2239.8	2935.0	3286.2	3561.8
10°	248.8	370.0	465.7	634.9	771.4	899.2	1567.9	2511.1	3052.0	3342.9	3647.0
7.5°	275.8	400.2	498.6	675.5	811.6	946.1	1764.0	2736.9	3132.6	3360.5	3585.9
5°	296.0	410.6	507.0	693.8	841.6	980.7	1911.7	2916.5	3183.9	3347.1	3479.4
2.5°	311.4	417.7	512.6	703.7	864.1	998.1	1925.7	2944.7	3168.2	3321.5	3412.8
0°	321.6	421.8	515.5	707.8	882.3	1010.0	1897.2	2929.8	3133.4	3291.7	3398.4
-2.5°	332.9	434.1	538.8	720.3	883.9	1010.4	1870.1	2900.7	3167.9	3380.6	3557.7
-5°	339.7	443.9	558.5	728.0	880.9	1006.3	1809.1	2826.3	3163.6	3387.6	3604.7
-7.5°	342.9	451.4	573.9	730.1	868.4	987.0	1705.7	2648.6	3030.5	3240.0	3508.8
-10°	344.1	461.2	581.1	718.7	843.8	956.8	1567.9	2443.5	2893.0	3084.7	3367.2
-12.5°	347.3	472.8	585.7	707.4	818.9	923.4	1399.5	2218.6	2754.5	2923.1	3210.8
-15°	347.4	482.1	588.9	697.7	794.7	887.1	1201.7	1980.8	2678.8	2952.7	3189.1
-17.5°	344.5	489.3	591.4	690.8	772.4	848.3	983.0	1768.6	2631.0	3016.4	3249.7
-20°	339.0	494.2	593.5	688.0	753.7	830.3	937.3	1532.0	2388.3	3045.3	3330.1



REPORT NUMBER: P731594 (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°	331.1	497.1	595.4	685.8	759.7	832.2	922.2	1263.8	2051.1	3041.7	3332.5
-25°	327.3	483.1	595.1	685.5	768.7	835.8	904.5	1008.7	1688.6	2608.8	3244.2
-27.5°	325.8	467.1	584.8	678.7	777.0	841.8	901.2	985.8	1341.9	2090.5	3063.2
-30°	319.5	440.8	570.0	665.3	768.8	848.6	907.1	960.7	1058.8	1643.9	2453.5
-32.5°	304.8	413.2	541.8	645.5	749.1	855.0	909.2	955.4	1027.7	1200.8	1858.4
-35°	287.6	391.3	508.5	620.3	721.7	833.1	905.8	954.2	1001.8	1085.5	1383.6
-37.5°	272.1	366.1	474.5	587.3	689.1	793.7	898.0	949.3	997.2	1057.0	1170.5
-40°	253.6	337.7	442.4	549.6	651.3	752.1	853.3	942.2	990.3	1068.1	1143.0
-42.5°	232.2	313.8	407.9	510.8	608.3	707.1	806.1	901.3	1001.1	1079.2	1154.1
-45°	208.8	286.7	371.3	464.9	560.6	656.9	753.1	852.2	972.5	1091.5	1166.5
-47.5°	182.0	256.3	336.7	414.1	506.3	600.7	695.0	798.8	918.0	1042.3	1176.3
-50°	153.8	222.4	295.9	367.0	445.3	537.2	629.8	734.2	846.3	966.6	1092.8
-52.5°	128.0	184.9	251.2	319.9	388.2	464.8	557.5	656.6	761.6	874.7	985.0
-55°	99.9	150.2	202.8	267.4	334.4	399.5	474.9	567.8	664.5	766.9	866.4
-57.5°	78.7	114.3	158.6	210.0	273.0	338.7	403.7	473.9	559.6	649.9	732.9
-60°	61.5	84.8	117.0	159.1	205.7	266.1	330.3	393.9	460.2	526.3	597.8
-62.5°	45.6	63.5	84.2	111.4	150.6	191.8	245.2	304.5	366.1	421.0	472.9
-65°	40.5	45.8	60.0	78.9	98.2	132.2	169.9	209.6	261.1	309.4	356.3
-67.5°	35.0	40.1	44.7	51.8	68.7	85.7	102.4	135.3	169.6	200.6	233.5
-70°	31.8	34.6	38.7	42.7	46.5	53.7	68.4	82.8	96.5	113.4	139.3
-72.5°	28.8	31.0	33.6	36.5	39.9	43.2	46.6	50.1	58.8	70.2	80.4
-75°	25.8	27.3	29.2	31.4	33.8	36.2	38.6	41.4	44.4	47.6	51.0
-77.5°	22.9	24.2	25.4	26.5	28.1	30.1	32.1	34.0	35.9	37.7	39.5
-80°	20.2	21.0	21.9	22.9	23.9	25.1	26.3	27.6	28.9	30.4	31.9
-82.5°	18.0	18.6	19.1	19.6	20.2	20.6	21.2	22.0	22.8	23.6	24.5
-85°	15.8	16.2	16.6	16.9	17.2	17.6	17.9	18.2	18.5	18.8	19.0
-87.5°	13.6	13.7	13.9	14.1	14.4	14.7	15.0	15.2	15.4	15.6	15.8
-90°	2.8	2.4	2.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	14.5	14.9	15.4	15.8	16.2	16.6	17.0	17.4	17.8	17.8	17.8
87.5°	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	0.8
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	2.3	2.3	2.1	1.9	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	3.6	3.5	3.2	2.9	2.6	2.5	2.2	2.0	1.6	1.6	1.6
77.5°	4.8	4.5	4.1	3.7	3.3	3.1	3.0	2.9	2.9	3.0	3.1
75°	4.9	4.8	5.1	5.1	4.8	4.6	4.4	3.9	3.3	3.2	3.2
72.5°	9.6	9.9	9.8	9.6	8.8	8.2	7.9	7.5	7.1	7.0	6.9
70°	18.3	18.5	17.7	16.1	13.7	12.0	11.4	10.6	9.6	9.6	10.0
67.5°	27.9	25.5	23.3	20.6	17.3	15.0	14.2	13.4	12.4	12.0	12.0
65°	34.4	27.1	23.1	20.4	18.8	16.9	15.1	13.3	11.6	10.5	10.1
62.5°	34.0	23.8	19.2	17.1	15.4	14.2	12.4	10.8	9.4	8.6	8.4
60°	29.6	19.8	14.7	13.3	12.1	11.3	10.3	9.4	8.6	8.1	8.1
57.5°	23.1	15.4	11.3	11.1	10.7	10.0	9.4	9.0	8.5	8.1	8.5
55°	16.8	13.5	11.4	11.2	10.8	10.2	9.6	9.5	9.3	9.1	9.8
52.5°	14.6	13.3	12.7	12.4	11.7	11.3	11.2	11.2	11.3	11.6	11.9
50°	14.3	13.8	13.4	12.8	12.7	12.8	12.7	13.3	13.7	13.9	13.9
47.5°	14.9	14.7	15.2	14.3	14.6	15.7	15.9	16.3	17.5	17.7	17.7
45°	17.6	19.9	20.5	20.4	19.9	25.9	27.2	24.9	34.2	32.8	25.6
42.5°	27.1	30.0	31.8	37.6	46.2	51.9	67.1	92.1	82.4	62.1	40.1
40°	46.4	45.6	54.4	65.1	71.5	83.3	101.8	125.7	116.0	98.5	105.2
37.5°	81.8	82.8	85.7	99.8	105.0	92.1	119.2	117.2	99.4	127.1	130.4
35°	150.1	166.1	141.1	171.8	179.0	168.0	177.9	196.8	170.2	205.9	217.4
32.5°	270.1	297.7	298.8	306.0	331.4	355.9	362.8	413.8	430.4	473.4	519.6
30°	431.5	482.4	525.6	537.3	571.3	631.9	681.9	780.2	885.4	964.5	1068.4
27.5°	777.8	731.8	828.1	945.4	908.0	996.1	1176.5	1318.4	1528.1	1679.1	1760.6
25°	1258.0	1183.2	1358.7	1537.5	1537.9	1552.8	1813.9	2041.5	2213.1	2349.4	2468.9
22.5°	1824.7	1917.9	2075.3	2282.9	2174.7	2273.4	2532.6	2717.3	2957.8	3193.5	3899.6
20°	2459.9	2648.4	2777.9	2747.0	2742.2	2910.0	3137.9	3494.6	4222.0	6785.8	9234.2
17.5°	3019.5	3248.5	3237.2	3106.9	3168.6	3450.2	3864.0	5249.0	8923.1	17250.0	25042.8
15°	3453.4	3555.5	3488.4	3410.4	3548.7	3970.3	5005.2	9483.7	20633.2	33967.8	49188.2
12.5°	3743.4	3703.4	3527.1	3539.9	3868.3	4460.8	7978.2	18459.9	34581.5	53518.5	91785.3
10°	3855.5	3745.8	3591.6	3734.3	4182.3	5608.3	10730.7	25630.8	50004.7	89375.4	140954.1
7.5°	3779.2	3685.7	3642.2	3894.3	4490.6	7427.3	16680.4	36252.7	71677.3	122448.7	195033.0
5°	3729.8	3667.3	3676.7	3999.3	4685.5	8765.0	20885.3	42935.0	88909.0	154432.5	246775.4
2.5°	3726.9	3689.7	3706.2	4072.3	4795.4	9449.7	23254.0	44047.8	94961.9	171829.7	289112.8
0°	3766.8	3742.6	3728.1	4086.8	4742.9	8779.6	22310.2	45835.6	99114.4	179678.9	307506.0
-2.5°	3953.0	3754.6	3746.3	4086.0	4800.9	9277.9	22862.7	45218.2	97615.7	172424.5	287774.9
-5°	3908.4	3684.1	3648.3	3933.6	4601.0	8354.9	20015.5	41760.2	85745.2	146613.4	237194.1
-7.5°	3731.8	3582.0	3518.3	3745.3	4325.7	7012.6	15522.3	32970.2	64567.7	110511.7	170923.2
-10°	3588.2	3489.3	3395.2	3552.4	3993.5	5359.1	9895.3	22118.7	43919.5	75150.2	109746.7
-12.5°	3512.8	3465.9	3296.4	3340.3	3648.5	4254.2	6923.8	14950.7	27504.7	40807.5	66661.9
-15°	3459.3	3423.8	3265.0	3254.5	3426.7	3784.7	4561.3	7755.0	15380.9	24957.7	35220.1
-17.5°	3411.0	3398.0	3313.8	3222.5	3244.0	3451.6	3879.1	5013.2	7865.8	13953.2	20586.4
-20°	3434.2	3441.8	3377.5	3282.1	3248.1	3274.9	3497.0	3887.8	4610.4	7071.4	10076.5



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3426.9	3448.8	3431.6	3438.4	3397.4	3335.0	3291.0	3461.6	3735.1	4172.6	5284.2
-25°	3426.1	3456.4	3584.6	3749.0	3731.9	3582.9	3426.7	3291.5	3448.0	3637.1	3912.9
-27.5°	3375.4	3571.6	3891.1	4133.4	4202.9	4039.6	3821.2	3594.0	3569.0	3563.0	3669.1
-30°	3358.8	3780.3	4157.1	4502.5	4551.2	4468.8	4367.8	4205.8	4032.0	3935.8	3884.5
-32.5°	2851.9	3872.4	4333.2	4643.8	4720.8	4717.1	4739.9	4663.0	4608.8	4546.6	4458.8
-35°	2165.2	3236.1	4364.4	4507.6	4632.7	4744.3	4893.6	4931.8	4961.9	4996.3	5027.0
-37.5°	1511.9	2346.7	3284.2	4102.1	4362.0	4556.1	4820.6	5014.7	5176.2	5256.2	5352.4
-40°	1252.5	1483.2	2209.5	2900.8	3581.9	4210.1	4495.0	4825.7	5135.0	5306.8	5464.0
-42.5°	1226.8	1308.9	1396.2	1878.3	2454.8	3047.7	3630.2	4158.3	4720.9	5096.1	5372.1
-45°	1235.0	1276.5	1327.5	1412.1	1502.5	1954.9	2443.0	2941.3	3556.2	4156.9	4681.2
-47.5°	1234.0	1271.8	1312.2	1353.2	1407.1	1491.4	1578.1	1719.2	2155.2	2616.2	3062.3
-50°	1191.3	1268.2	1305.8	1344.1	1383.3	1425.0	1468.8	1530.7	1604.5	1673.6	1729.6
-52.5°	1083.4	1174.0	1261.1	1334.2	1370.1	1406.8	1445.6	1497.2	1545.6	1591.0	1614.6
-55°	961.4	1051.6	1139.8	1218.2	1292.2	1363.5	1429.6	1476.9	1525.2	1574.3	1594.5
-57.5°	821.1	912.2	999.8	1072.9	1146.7	1220.6	1289.1	1354.8	1420.5	1482.6	1517.3
-60°	671.9	747.9	826.3	901.3	973.1	1041.3	1105.1	1167.4	1227.1	1279.2	1312.1
-62.5°	525.3	585.2	651.3	716.4	779.4	840.3	899.1	955.2	1008.2	1052.7	1083.7
-65°	402.1	446.8	492.4	539.3	587.2	639.6	689.0	735.7	779.5	815.7	842.7
-67.5°	273.1	311.8	348.7	383.4	418.5	455.5	493.1	528.4	561.2	587.9	608.9
-70°	164.2	188.3	211.7	236.8	265.0	291.9	318.4	343.5	366.9	385.1	398.9
-72.5°	89.5	98.2	109.8	129.0	146.8	163.2	178.3	191.9	204.1	214.2	222.5
-75°	54.5	58.9	66.0	72.8	79.3	85.7	91.6	97.1	102.1	106.3	109.8
-77.5°	41.7	44.1	46.3	48.4	50.4	52.6	54.7	56.7	58.5	60.1	61.6
-80°	33.3	34.6	35.9	37.1	38.3	39.6	41.0	42.3	43.6	44.5	45.3
-82.5°	25.4	26.7	27.9	29.0	30.0	30.7	31.5	32.2	32.9	33.6	34.3
-85°	19.3	20.1	21.1	22.0	23.0	23.3	23.5	23.7	23.9	24.4	24.9
-87.5°	15.9	16.3	16.8	17.2	17.6	18.1	18.5	18.9	19.3	19.8	20.2
-90°	1.6	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731594 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.4
87.5°	0.4	0.0	0.8	1.6	0.8	0.0	0.4	0.8	1.2	1.5	1.5
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0
77.5°	3.1	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.0	2.9	2.9
75°	3.2	3.2	4.0	4.8	4.0	3.2	3.2	3.2	3.2	3.3	3.9
72.5°	6.7	6.4	6.5	6.5	6.5	6.4	6.7	6.9	7.0	7.1	7.5
70°	10.5	11.1	11.3	11.3	11.3	11.1	10.5	10.0	9.6	9.6	10.6
67.5°	11.7	11.4	9.8	8.1	9.8	11.4	11.7	12.0	12.0	12.4	13.4
65°	9.9	9.8	9.0	8.1	9.0	9.8	9.9	10.1	10.5	11.6	13.3
62.5°	8.3	8.2	8.1	8.1	8.1	8.2	8.3	8.4	8.6	9.4	10.8
60°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.6	9.4
57.5°	9.0	9.5	9.7	9.7	9.7	9.5	9.0	8.5	8.1	8.5	9.0
55°	10.4	11.0	11.3	11.3	11.3	11.0	10.4	9.8	9.1	9.3	9.5
52.5°	11.8	11.5	11.9	12.9	11.9	11.5	11.8	11.9	11.6	11.3	11.2
50°	14.1	14.3	14.5	14.5	14.5	14.3	14.1	13.9	13.9	13.7	13.3
47.5°	17.9	17.8	17.7	17.8	17.7	17.8	17.9	17.7	17.7	17.5	16.3
45°	26.5	27.0	27.7	29.1	27.7	27.0	26.5	25.6	32.8	34.2	24.9
42.5°	41.9	42.8	43.2	43.6	43.2	42.8	41.9	40.1	62.1	82.4	92.1
40°	99.8	79.3	59.4	59.8	59.4	79.3	99.8	105.2	98.5	116.0	125.7
37.5°	114.6	104.2	100.0	98.6	100.0	104.2	114.6	130.4	127.1	99.4	117.2
35°	217.1	220.9	215.9	218.2	215.9	220.9	217.1	217.4	205.9	170.2	196.8
32.5°	534.4	556.1	548.4	551.0	548.4	556.1	534.4	519.6	473.4	430.4	413.8
30°	1110.2	1176.9	1192.0	1187.7	1192.0	1176.9	1110.2	1068.4	964.5	885.4	780.2
27.5°	1793.4	1846.3	1857.2	1847.1	1857.2	1846.3	1793.4	1760.6	1679.1	1528.1	1318.4
25°	2534.9	2585.2	2613.7	2600.1	2613.7	2585.2	2534.9	2468.9	2349.4	2213.1	2041.5
22.5°	4717.1	4946.1	5057.7	5209.9	5057.7	4946.1	4717.1	3899.6	3193.5	2957.8	2717.3
20°	13911.7	15493.1	15193.4	14867.0	15193.4	15493.1	13911.7	9234.2	6785.8	4222.0	3494.6
17.5°	34725.4	42501.0	46203.6	44696.3	46203.6	42501.0	34725.4	25042.8	17250.0	8923.1	5249.0
15°	71023.6	92748.7	105451.2	102060.3	105451.2	92748.7	71023.6	49188.2	33967.8	20633.2	9483.7
12.5°	128659.9	163187.6	189638.9	193425.3	189638.9	163187.6	128659.9	91785.3	53518.5	34581.5	18459.9
10°	202337.9	266141.8	318722.8	335890.6	318722.8	266141.8	202337.9	140954.1	89375.4	50004.7	25630.8
7.5°	290158.6	375332.4	435973.1	452828.4	435973.1	375332.4	290158.6	195033.0	122448.7	71677.3	36252.7
5°	360592.0	458615.6	525768.1	546394.3	525768.1	458615.6	360592.0	246775.4	154432.5	88909.0	42935.0
2.5°	413348.6	516166.3	591048.6	625264.6	591048.6	516166.3	413348.6	289112.8	171829.7	94961.9	44047.8
0°	433785.7	537396.6	621366.0	669992.4	621366.0	537396.6	433785.7	307506.0	179678.9	99114.4	45835.6
-2.5°	413793.7	510122.7	574784.7	606671.0	574784.7	510122.7	413793.7	287774.9	172424.5	97615.7	45218.2
-5°	344496.6	429735.0	485497.2	508008.4	485497.2	429735.0	344496.6	237194.1	146613.4	85745.2	41760.2
-7.5°	246840.2	316810.7	358375.1	377342.8	358375.1	316810.7	246840.2	170923.2	110511.7	64567.7	32970.2
-10°	160369.7	199099.2	241007.5	249977.2	241007.5	199099.2	160369.7	109746.7	75150.2	43919.5	22118.7
-12.5°	90348.3	114787.3	135615.8	143132.7	135615.8	114787.3	90348.3	66661.9	40807.5	27504.7	14950.7
-15°	48881.4	62805.7	70308.3	72153.4	70308.3	62805.7	48881.4	35220.1	24957.7	15380.9	7755.0
-17.5°	28064.5	34753.3	38580.8	40338.0	38580.8	34753.3	28064.5	20586.4	13953.2	7865.8	5013.2
-20°	14996.9	18771.1	20926.1	22512.2	20926.1	18771.1	14996.9	10076.5	7071.4	4610.4	3887.8



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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°	6888.3	8051.6	8708.9	9451.9	8708.9	8051.6	6888.3	5284.2	4172.6	3735.1	3461.6
-25°	4152.5	4309.0	4403.3	4479.5	4403.3	4309.0	4152.5	3912.9	3637.1	3448.0	3291.5
-27.5°	3760.2	3811.4	3841.0	3871.9	3841.0	3811.4	3760.2	3669.1	3563.0	3569.0	3594.0
-30°	3840.4	3788.5	3770.4	3750.7	3770.4	3788.5	3840.4	3884.5	3935.8	4032.0	4205.8
-32.5°	4370.4	4269.5	4215.3	4164.4	4215.3	4269.5	4370.4	4458.8	4546.6	4608.8	4663.0
-35°	5015.2	4969.8	4945.9	4915.8	4945.9	4969.8	5015.2	5027.0	4996.3	4961.9	4931.8
-37.5°	5368.5	5360.6	5359.2	5344.0	5359.2	5360.6	5368.5	5352.4	5256.2	5176.2	5014.7
-40°	5482.3	5479.1	5471.2	5463.6	5471.2	5479.1	5482.3	5464.0	5306.8	5135.0	4825.7
-42.5°	5445.6	5494.4	5517.8	5518.6	5517.8	5494.4	5445.6	5372.1	5096.1	4720.9	4158.3
-45°	5015.4	5263.8	5408.5	5447.5	5408.5	5263.8	5015.4	4681.2	4156.9	3556.2	2941.3
-47.5°	3459.5	3810.0	4080.1	4250.0	4080.1	3810.0	3459.5	3062.3	2616.2	2155.2	1719.2
-50°	1778.4	1824.0	1870.0	1914.9	1870.0	1824.0	1778.4	1729.6	1673.6	1604.5	1530.7
-52.5°	1633.5	1652.5	1664.4	1670.9	1664.4	1652.5	1633.5	1614.6	1591.0	1545.6	1497.2
-55°	1612.8	1630.4	1639.1	1641.8	1639.1	1630.4	1612.8	1594.5	1574.3	1525.2	1476.9
-57.5°	1547.2	1571.9	1586.6	1593.4	1586.6	1571.9	1547.2	1517.3	1482.6	1420.5	1354.8
-60°	1339.6	1361.5	1376.3	1384.9	1376.3	1361.5	1339.6	1312.1	1279.2	1227.1	1167.4
-62.5°	1109.5	1129.8	1141.2	1145.7	1141.2	1129.8	1109.5	1083.7	1052.7	1008.2	955.2
-65°	865.1	882.7	900.5	914.6	900.5	882.7	865.1	842.7	815.7	779.5	735.7
-67.5°	626.6	640.8	656.5	669.0	656.5	640.8	626.6	608.9	587.9	561.2	528.4
-70°	409.6	417.4	430.2	441.2	430.2	417.4	409.6	398.9	385.1	366.9	343.5
-72.5°	229.1	234.1	243.6	252.1	243.6	234.1	229.1	222.5	214.2	204.1	191.9
-75°	112.8	115.1	116.1	116.4	116.1	115.1	112.8	109.8	106.3	102.1	97.1
-77.5°	63.0	64.2	64.5	64.6	64.5	64.2	63.0	61.6	60.1	58.5	56.7
-80°	46.1	46.7	47.6	48.5	47.6	46.7	46.1	45.3	44.5	43.6	42.3
-82.5°	34.9	35.5	35.6	35.6	35.6	35.5	34.9	34.3	33.6	32.9	32.2
-85°	25.4	25.9	25.9	25.9	25.9	25.9	25.4	24.9	24.4	23.9	23.7
-87.5°	20.6	21.0	21.0	21.0	21.0	21.0	20.6	20.2	19.8	19.3	18.9
-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°	17.0	16.6	16.2	15.8	15.4	14.9	14.5	14.1	13.7	13.3	12.9
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.8	2.0	2.2	2.3
82.5°	1.6	1.6	1.6	1.9	2.1	2.3	2.3	2.5	2.7	2.9	3.2
80°	2.2	2.5	2.6	2.9	3.2	3.5	3.6	3.5	3.3	3.2	3.3
77.5°	3.0	3.1	3.3	3.7	4.1	4.5	4.8	4.7	4.5	4.3	4.1
75°	4.4	4.6	4.8	5.1	5.1	4.8	4.9	5.2	5.4	5.4	5.2
72.5°	7.9	8.2	8.8	9.6	9.8	9.9	9.6	8.8	8.0	7.1	6.3
70°	11.4	12.0	13.7	16.1	17.7	18.5	18.3	16.8	13.8	11.8	10.0
67.5°	14.2	15.0	17.3	20.6	23.3	25.5	27.9	29.4	28.5	25.3	17.8
65°	15.1	16.9	18.8	20.4	23.1	27.1	34.4	38.4	39.8	38.9	30.6
62.5°	12.4	14.2	15.4	17.1	19.2	23.8	34.0	42.1	48.0	47.6	38.3
60°	10.3	11.3	12.1	13.3	14.7	19.8	29.6	40.7	53.4	49.7	42.0
57.5°	9.4	10.0	10.7	11.1	11.3	15.4	23.1	33.6	45.6	44.9	40.8
55°	9.6	10.2	10.8	11.2	11.4	13.5	16.8	23.4	32.7	35.2	33.6
52.5°	11.2	11.3	11.7	12.4	12.7	13.3	14.6	18.3	21.0	24.4	26.2
50°	12.7	12.8	12.7	12.8	13.4	13.8	14.3	15.8	17.5	18.6	19.3
47.5°	15.9	15.7	14.6	14.3	15.2	14.7	14.9	15.1	16.6	17.3	17.3
45°	27.2	25.9	19.9	20.4	20.5	19.9	17.6	19.0	17.9	17.8	17.8
42.5°	67.1	51.9	46.2	37.6	31.8	30.0	27.1	27.1	25.5	21.1	21.3
40°	101.8	83.3	71.5	65.1	54.4	45.6	46.4	38.5	36.3	31.6	30.2
37.5°	119.2	92.1	105.0	99.8	85.7	82.8	81.8	67.0	48.8	57.8	55.6
35°	177.9	168.0	179.0	171.8	141.1	166.1	150.1	116.4	95.8	101.3	92.9
32.5°	362.8	355.9	331.4	306.0	298.8	297.7	270.1	206.7	190.3	176.7	149.9
30°	681.9	631.9	571.3	537.3	525.6	482.4	431.5	441.5	362.5	275.0	225.7
27.5°	1176.5	996.1	908.0	945.4	828.1	731.8	777.8	820.8	612.4	446.8	334.0
25°	1813.9	1552.8	1537.9	1537.5	1358.7	1183.2	1258.0	1263.0	1057.1	677.4	481.6
22.5°	2532.6	2273.4	2174.7	2282.9	2075.3	1917.9	1824.7	1757.3	1602.7	1100.8	747.4
20°	3137.9	2910.0	2742.2	2747.0	2777.9	2648.4	2459.9	2280.2	2070.1	1652.1	1085.7
17.5°	3864.0	3450.2	3168.6	3106.9	3237.2	3248.5	3019.5	2740.4	2521.8	2221.6	1473.0
15°	5005.2	3970.3	3548.7	3410.4	3488.4	3555.5	3453.4	3165.6	2951.7	2703.3	1923.3
12.5°	7978.2	4460.8	3868.3	3539.9	3527.1	3703.4	3743.4	3561.8	3286.2	2935.0	2239.8
10°	10730.7	5608.3	4182.3	3734.3	3591.6	3745.8	3855.5	3647.0	3342.9	3052.0	2511.1
7.5°	16680.4	7427.3	4490.6	3894.3	3642.2	3685.7	3779.2	3585.9	3360.5	3132.6	2736.9
5°	20885.3	8765.0	4685.5	3999.3	3676.7	3667.3	3729.8	3479.4	3347.1	3183.9	2916.5
2.5°	23254.0	9449.7	4795.4	4072.3	3706.2	3689.7	3726.9	3412.8	3321.5	3168.2	2944.7
0°	22310.2	8779.6	4742.9	4086.8	3728.1	3742.6	3766.8	3398.4	3291.7	3133.4	2929.8
-2.5°	22862.7	9277.9	4800.9	4086.0	3746.3	3754.6	3953.0	3557.7	3380.6	3167.9	2900.7
-5°	20015.5	8354.9	4601.0	3933.6	3648.3	3684.1	3908.4	3604.7	3387.6	3163.6	2826.3
-7.5°	15522.3	7012.6	4325.7	3745.3	3518.3	3582.0	3731.8	3508.8	3240.0	3030.5	2648.6
-10°	9895.3	5359.1	3993.5	3552.4	3395.2	3489.3	3588.2	3367.2	3084.7	2893.0	2443.5
-12.5°	6923.8	4254.2	3648.5	3340.3	3296.4	3465.9	3512.8	3210.8	2923.1	2754.5	2218.6
-15°	4561.3	3784.7	3426.7	3254.5	3265.0	3423.8	3459.3	3189.1	2952.7	2678.8	1980.8
-17.5°	3879.1	3451.6	3244.0	3222.5	3313.8	3398.0	3411.0	3249.7	3016.4	2631.0	1768.6
-20°	3497.0	3274.9	3248.1	3282.1	3377.5	3441.8	3434.2	3330.1	3045.3	2388.3	1532.0



REPORT NUMBER: P731594 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	3291.0	3335.0	3397.4	3438.4	3431.6	3448.8	3426.9	3332.5	3041.7	2051.1	1263.8
-25°	3426.7	3582.9	3731.9	3749.0	3584.6	3456.4	3426.1	3244.2	2608.8	1688.6	1008.7
-27.5°	3821.2	4039.6	4202.9	4133.4	3891.1	3571.6	3375.4	3063.2	2090.5	1341.9	985.8
-30°	4367.8	4468.8	4551.2	4502.5	4157.1	3780.3	3358.8	2453.5	1643.9	1058.8	960.7
-32.5°	4739.9	4717.1	4720.8	4643.8	4333.2	3872.4	2851.9	1858.4	1200.8	1027.7	955.4
-35°	4893.6	4744.3	4632.7	4507.6	4364.4	3236.1	2165.2	1383.6	1085.5	1001.8	954.2
-37.5°	4820.6	4556.1	4362.0	4102.1	3284.2	2346.7	1511.9	1170.5	1057.0	997.2	949.3
-40°	4495.0	4210.1	3581.9	2900.8	2209.5	1483.2	1252.5	1143.0	1068.1	990.3	942.2
-42.5°	3630.2	3047.7	2454.8	1878.3	1396.2	1308.9	1226.8	1154.1	1079.2	1001.1	901.3
-45°	2443.0	1954.9	1502.5	1412.1	1327.5	1276.5	1235.0	1166.5	1091.5	972.5	852.2
-47.5°	1578.1	1491.4	1407.1	1353.2	1312.2	1271.8	1234.0	1176.3	1042.3	918.0	798.8
-50°	1468.8	1425.0	1383.3	1344.1	1305.8	1268.2	1191.3	1092.8	966.6	846.3	734.2
-52.5°	1445.6	1406.8	1370.1	1334.2	1261.1	1174.0	1083.4	985.0	874.7	761.6	656.6
-55°	1429.6	1363.5	1292.2	1218.2	1139.8	1051.6	961.4	866.4	766.9	664.5	567.8
-57.5°	1289.1	1220.6	1146.7	1072.9	999.8	912.2	821.1	732.9	649.9	559.6	473.9
-60°	1105.1	1041.3	973.1	901.3	826.3	747.9	671.9	597.8	526.3	460.2	393.9
-62.5°	899.1	840.3	779.4	716.4	651.3	585.2	525.3	472.9	421.0	366.1	304.5
-65°	689.0	639.6	587.2	539.3	492.4	446.8	402.1	356.3	309.4	261.1	209.6
-67.5°	493.1	455.5	418.5	383.4	348.7	311.8	273.1	233.5	200.6	169.6	135.3
-70°	318.4	291.9	265.0	236.8	211.7	188.3	164.2	139.3	113.4	96.5	82.8
-72.5°	178.3	163.2	146.8	129.0	109.8	98.2	89.5	80.4	70.2	58.8	50.1
-75°	91.6	85.7	79.3	72.8	66.0	58.9	54.5	51.0	47.6	44.4	41.4
-77.5°	54.7	52.6	50.4	48.4	46.3	44.1	41.7	39.5	37.7	35.9	34.0
-80°	41.0	39.6	38.3	37.1	35.9	34.6	33.3	31.9	30.4	28.9	27.6
-82.5°	31.5	30.7	30.0	29.0	27.9	26.7	25.4	24.5	23.6	22.8	22.0
-85°	23.5	23.3	23.0	22.0	21.1	20.1	19.3	19.0	18.8	18.5	18.2
-87.5°	18.5	18.1	17.6	17.2	16.8	16.3	15.9	15.8	15.6	15.4	15.2
-90°	0.0	0.0	0.0	0.4	0.8	1.2	1.6	1.6	1.6	1.6	1.6



REPORT NUMBER: P731594 (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°	12.5	12.1	11.7	11.3	11.3	11.3	11.3	11.3	10.5	9.7	8.9
87.5°	1.9	2.1	2.3	2.5	2.6	2.8	3.0	3.2	3.4	3.5	3.6
85°	2.4	2.6	2.9	3.2	3.2	3.2	3.2	3.2	3.5	3.8	3.9
82.5°	3.2	3.1	3.1	3.2	3.5	3.6	3.7	3.7	3.9	4.1	4.3
80°	3.5	3.7	3.7	3.7	3.8	4.1	4.3	4.3	4.5	4.6	4.8
77.5°	4.1	4.2	4.5	4.6	4.4	4.4	4.6	4.9	5.1	5.2	5.3
75°	4.8	4.7	4.7	4.9	4.9	4.8	4.7	4.9	5.3	5.8	5.8
72.5°	6.0	5.6	5.2	5.0	5.3	5.3	5.1	5.0	5.4	5.8	6.2
70°	8.2	6.8	6.2	5.8	5.7	5.8	5.8	5.6	5.4	5.8	6.2
67.5°	11.3	9.3	7.8	6.7	6.3	6.2	6.4	6.3	6.1	5.9	6.3
65°	21.8	14.7	9.6	8.2	7.1	6.4	6.5	6.9	6.7	6.5	6.3
62.5°	29.9	22.2	15.3	10.5	8.2	7.2	6.6	7.1	7.3	7.0	6.7
60°	35.3	26.8	20.6	15.0	10.4	8.0	7.3	7.4	7.7	7.6	7.2
57.5°	33.8	29.3	24.7	19.0	13.5	9.5	8.1	8.0	8.1	8.1	7.7
55°	29.7	26.0	27.0	22.9	16.6	11.5	9.4	8.8	8.6	8.5	8.1
52.5°	24.4	24.4	26.6	25.7	20.4	13.8	11.2	9.5	9.3	9.1	8.6
50°	19.7	23.2	26.5	27.3	23.8	17.8	13.0	11.0	10.0	9.6	9.2
47.5°	17.9	22.2	25.5	28.8	26.8	21.6	16.0	12.5	10.7	10.2	9.7
45°	19.9	21.6	24.9	28.0	29.9	24.6	19.2	13.8	11.8	10.8	10.3
42.5°	23.9	24.3	25.2	27.3	29.7	27.1	22.3	16.3	12.9	11.4	10.8
40°	30.0	29.3	27.1	29.3	29.7	29.2	24.3	18.9	14.0	12.2	11.4
37.5°	38.0	36.3	32.8	34.9	31.9	30.0	26.0	21.2	15.5	13.2	11.9
35°	68.7	45.5	51.2	48.4	39.6	31.5	27.4	23.1	17.8	14.2	12.3
32.5°	107.9	85.4	90.3	71.1	50.1	33.7	28.9	25.1	20.0	15.3	12.8
30°	181.2	179.5	149.7	100.0	66.4	43.4	31.9	27.5	22.1	16.4	13.4
27.5°	305.3	293.7	231.5	155.0	94.2	56.3	36.9	30.2	24.1	17.7	14.3
25°	432.7	412.4	342.4	229.6	126.1	87.4	42.6	33.2	26.2	19.4	15.1
22.5°	569.7	527.2	466.7	316.7	180.2	129.0	58.5	37.8	28.5	20.9	16.0
20°	704.5	640.6	592.3	391.4	247.3	177.1	88.4	42.8	31.0	22.4	16.8
17.5°	866.5	731.3	642.0	465.2	314.4	225.7	123.7	48.1	33.5	23.8	17.6
15°	1120.4	791.6	685.9	530.1	372.6	274.4	163.1	53.6	36.0	25.0	18.3
12.5°	1351.5	847.7	729.3	586.6	422.7	322.6	205.3	59.2	38.6	26.2	18.9
10°	1567.9	899.2	771.4	634.9	465.7	370.0	248.8	64.8	41.0	27.3	19.5
7.5°	1764.0	946.1	811.6	675.5	498.6	400.2	275.8	70.2	43.2	28.3	19.9
5°	1911.7	980.7	841.6	693.8	507.0	410.6	296.0	75.2	45.2	29.2	20.4
2.5°	1925.7	998.1	864.1	703.7	512.6	417.7	311.4	79.9	47.0	30.0	20.7
0°	1897.2	1010.0	882.3	707.8	515.5	421.8	321.6	84.0	48.5	30.7	21.0
-2.5°	1870.1	1010.4	883.9	720.3	538.8	434.1	332.9	108.1	64.0	39.4	25.0
-5°	1809.1	1006.3	880.9	728.0	558.5	443.9	339.7	130.9	78.8	47.8	28.9
-7.5°	1705.7	987.0	868.4	730.1	573.9	451.4	342.9	152.1	92.7	55.5	32.5
-10°	1567.9	956.8	843.8	718.7	581.1	461.2	344.1	171.2	105.1	62.5	35.7
-12.5°	1399.5	923.4	818.9	707.4	585.7	472.8	347.3	187.2	116.1	68.5	38.5
-15°	1201.7	887.1	794.7	697.7	588.9	482.1	347.4	200.2	125.9	74.2	40.6
-17.5°	983.0	848.3	772.4	690.8	591.4	489.3	344.5	210.4	133.9	79.7	43.2
-20°	937.3	830.3	753.7	688.0	593.5	494.2	339.0	217.3	140.0	83.8	45.6



REPORT NUMBER: P731594 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	922.2	832.2	759.7	685.8	595.4	497.1	331.1	220.8	143.9	86.3	47.0
-25°	904.5	835.8	768.7	685.5	595.1	483.1	327.3	220.6	145.5	87.1	47.3
-27.5°	901.2	841.8	777.0	678.7	584.8	467.1	325.8	221.7	145.4	86.1	46.4
-30°	907.1	848.6	768.8	665.3	570.0	440.8	319.5	219.9	144.0	84.5	44.2
-32.5°	909.2	855.0	749.1	645.5	541.8	413.2	304.8	214.9	140.0	82.0	43.0
-35°	905.8	833.1	721.7	620.3	508.5	391.3	287.6	206.7	133.4	77.6	41.7
-37.5°	898.0	793.7	689.1	587.3	474.5	366.1	272.1	193.5	124.1	71.3	39.5
-40°	853.3	752.1	651.3	549.6	442.4	337.7	253.6	178.2	114.5	63.1	36.5
-42.5°	806.1	707.1	608.3	510.8	407.9	313.8	232.2	160.0	102.0	57.0	32.7
-45°	753.1	656.9	560.6	464.9	371.3	286.7	208.8	139.8	87.5	51.6	29.6
-47.5°	695.0	600.7	506.3	414.1	336.7	256.3	182.0	121.3	71.5	45.1	28.4
-50°	629.8	537.2	445.3	367.0	295.9	222.4	153.8	100.7	62.4	37.3	27.0
-52.5°	557.5	464.8	388.2	319.9	251.2	184.9	128.0	79.4	52.4	33.4	25.3
-55°	474.9	399.5	334.4	267.4	202.8	150.2	99.9	66.6	41.5	31.1	23.5
-57.5°	403.7	338.7	273.0	210.0	158.6	114.3	78.7	52.7	36.6	28.6	22.3
-60°	330.3	266.1	205.7	159.1	117.0	84.8	61.5	41.5	33.4	26.2	21.0
-62.5°	245.2	191.8	150.6	111.4	84.2	63.5	45.6	37.5	30.0	24.7	19.6
-65°	169.9	132.2	98.2	78.9	60.0	45.8	40.5	33.3	27.8	23.0	18.4
-67.5°	102.4	85.7	68.7	51.8	44.7	40.1	35.0	30.5	25.9	21.3	17.7
-70°	68.4	53.7	46.5	42.7	38.7	34.6	31.8	28.3	23.9	20.1	16.8
-72.5°	46.6	43.2	39.9	36.5	33.6	31.0	28.8	26.0	22.2	18.9	15.9
-75°	38.6	36.2	33.8	31.4	29.2	27.3	25.8	23.7	20.4	17.5	14.7
-77.5°	32.1	30.1	28.1	26.5	25.4	24.2	22.9	21.3	18.6	16.0	13.4
-80°	26.3	25.1	23.9	22.9	21.9	21.0	20.2	19.3	16.9	14.5	12.1
-82.5°	21.2	20.6	20.2	19.6	19.1	18.6	18.0	17.3	15.2	13.0	11.0
-85°	17.9	17.6	17.2	16.9	16.6	16.2	15.8	15.4	13.6	11.9	10.3
-87.5°	15.0	14.7	14.4	14.1	13.9	13.7	13.6	13.4	12.1	10.8	9.6
-90°	1.6	1.6	1.6	1.6	2.0	2.4	2.8	3.2	3.2	3.2	3.2



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	8.1	7.3	6.5	5.6	4.8	4.8	4.8
87.5°	3.6	3.9	4.1	4.5	4.8	4.8	4.8
85°	4.0	4.1	4.3	4.5	4.8	4.9	4.8
82.5°	4.4	4.4	4.4	4.6	4.8	4.9	4.8
80°	4.9	4.6	4.6	4.6	4.8	4.9	4.8
77.5°	5.3	4.9	4.7	4.7	4.8	5.0	4.8
75°	5.7	5.3	4.9	4.7	4.8	5.0	4.8
72.5°	6.1	5.6	5.1	4.8	4.8	5.1	4.8
70°	6.5	6.0	5.4	4.8	4.9	5.1	4.8
67.5°	6.5	6.3	5.7	5.0	4.9	5.1	4.8
65°	6.6	6.6	6.0	5.3	4.9	5.2	4.8
62.5°	6.7	6.7	6.2	5.4	5.0	5.2	4.8
60°	6.8	6.8	6.5	5.6	5.0	5.3	4.8
57.5°	7.2	7.0	6.6	5.8	5.2	5.3	4.8
55°	7.6	7.1	6.8	6.0	5.4	5.4	4.8
52.5°	8.0	7.3	7.0	6.2	5.5	5.4	4.8
50°	8.4	7.7	7.2	6.4	5.7	5.5	4.8
47.5°	8.8	8.0	7.3	6.5	5.8	5.5	4.8
45°	9.3	8.3	7.5	6.7	6.0	5.6	4.8
42.5°	9.8	8.6	7.7	6.8	6.1	5.6	4.8
40°	10.3	8.9	8.0	7.0	6.3	5.7	4.8
37.5°	10.9	9.2	8.2	7.2	6.4	5.7	4.8
35°	11.4	9.6	8.4	7.4	6.6	5.8	4.8
32.5°	11.9	10.0	8.6	7.7	6.7	5.8	4.8
30°	12.3	10.4	8.8	7.8	6.9	5.9	4.8
27.5°	12.7	10.9	9.1	8.0	7.0	6.0	4.8
25°	13.1	11.3	9.3	8.2	7.1	6.0	4.8
22.5°	13.5	11.7	9.6	8.4	7.2	6.1	4.8
20°	13.8	12.0	9.8	8.6	7.4	6.1	4.8
17.5°	14.1	12.2	10.0	8.8	7.5	6.2	4.8
15°	14.4	12.4	10.2	8.9	7.6	6.2	4.8
12.5°	14.8	12.6	10.4	9.1	7.7	6.3	4.8
10°	15.1	12.7	10.6	9.2	7.8	6.3	4.8
7.5°	15.4	12.8	10.8	9.3	7.9	6.4	4.8
5°	15.7	12.9	11.0	9.5	7.9	6.4	4.8
2.5°	16.0	12.9	11.2	9.6	8.0	6.5	4.8
0°	16.2	12.9	11.3	9.7	8.1	6.5	4.8
-2.5°	17.7	13.6	11.6	9.8	8.2	6.5	4.8
-5°	19.1	14.3	11.8	9.9	8.2	6.6	4.8
-7.5°	20.5	14.9	12.1	10.0	8.3	6.6	4.8
-10°	21.7	15.5	12.3	10.0	8.3	6.6	4.8
-12.5°	22.8	16.1	12.5	10.1	8.4	6.6	4.8
-15°	23.7	16.5	12.6	10.2	8.4	6.6	4.8
-17.5°	24.4	16.9	12.8	10.2	8.4	6.7	4.8
-20°	25.2	17.2	12.9	10.2	8.5	6.7	4.8



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 CATALOG NUMBER: EPH-LS-08-0680N-40-70-1S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	26.1	17.4	12.9	10.3	8.5	6.7	4.8
-25°	26.5	17.5	12.9	10.3	8.5	6.6	4.8
-27.5°	26.4	17.6	12.9	10.3	8.5	6.6	4.8
-30°	25.8	17.6	12.8	10.3	8.5	6.6	4.8
-32.5°	24.7	17.4	12.8	10.2	8.5	6.6	4.8
-35°	24.1	17.2	12.7	10.2	8.4	6.6	4.8
-37.5°	23.8	16.9	12.6	10.2	8.4	6.5	4.8
-40°	23.3	16.8	12.5	10.1	8.4	6.5	4.8
-42.5°	22.6	16.5	12.4	10.1	8.3	6.5	4.8
-45°	21.7	16.2	12.3	10.0	8.3	6.4	4.8
-47.5°	20.7	15.7	12.3	10.0	8.2	6.3	4.8
-50°	20.0	15.2	12.2	9.9	8.2	6.3	4.8
-52.5°	19.3	14.7	12.0	9.8	8.1	6.2	4.8
-55°	18.4	14.4	11.9	9.7	8.0	6.2	4.8
-57.5°	17.4	14.1	11.7	9.5	8.0	6.1	4.8
-60°	16.5	13.8	11.4	9.4	7.9	6.0	4.8
-62.5°	16.0	13.4	11.1	9.2	7.7	5.9	4.8
-65°	15.4	13.0	10.7	9.0	7.5	5.8	4.8
-67.5°	14.8	12.5	10.3	8.7	7.2	5.7	4.8
-70°	14.2	11.8	9.9	8.5	7.0	5.6	4.8
-72.5°	13.2	11.1	9.4	8.2	6.7	5.5	4.8
-75°	12.1	10.3	8.9	7.8	6.5	5.4	4.8
-77.5°	11.0	9.5	8.5	7.4	6.2	5.3	4.8
-80°	9.8	9.0	8.1	7.1	5.9	5.2	4.8
-82.5°	9.3	8.6	7.7	6.7	5.7	5.1	4.8
-85°	8.9	8.1	7.3	6.4	5.4	5.0	4.8
-87.5°	8.5	7.7	6.9	6.0	5.1	4.9	4.8
-90°	3.2	3.6	4.0	4.4	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

