

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: P731719 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-57-80-2S-CV2**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731719 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-11)
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-CV2
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 2S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

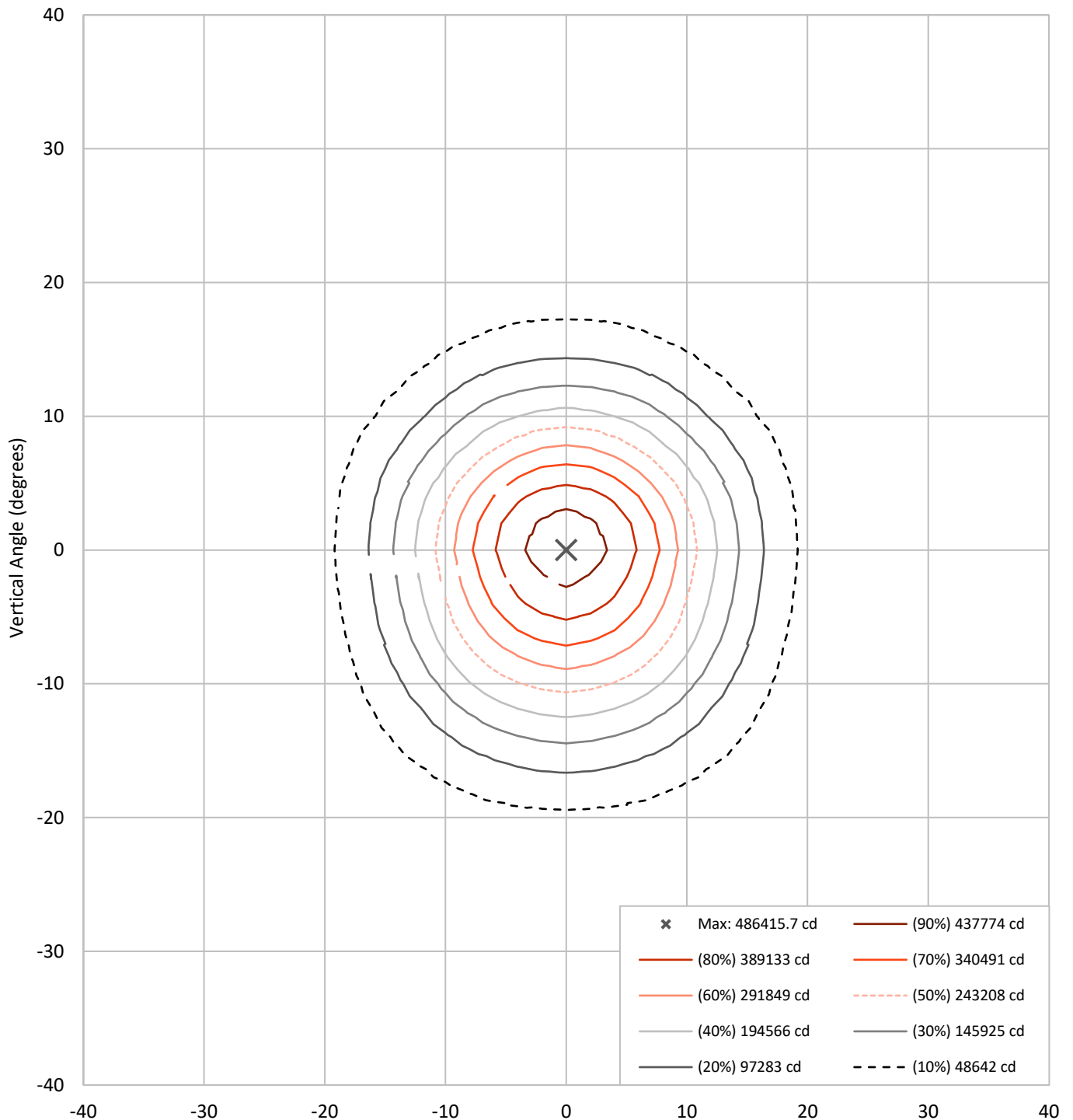
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	75298.2 lumens	Max Intensity:	486415.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	107.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.7°H x 19.8°V	Field Angle (10%):	38.4°H x 36.6°V
Beam Lumens:	34809.7 lumens	Field Lumens:	64936.4 lumens
Beam Efficiency:	46.2%	Field Efficiency:	86.2%

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





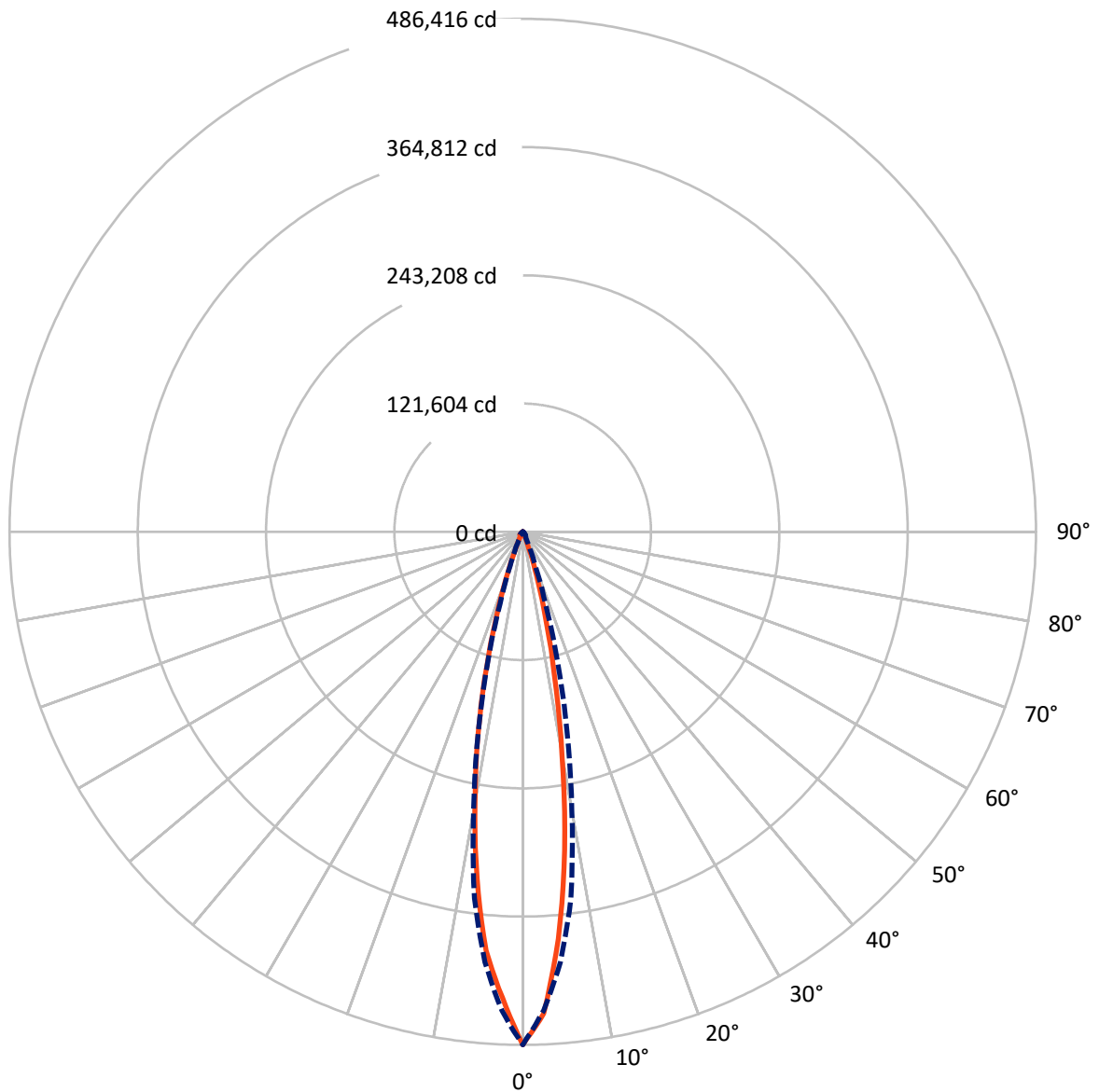
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Lumen Table

90	0.2	0.4	0.7	0.6	0.7	0.6	0.7	0.4	0.2									
80	0.2	0.4	0.7	0.6	0.7	0.6	0.7	0.4	0.2									
70	0.2	0.1	0.2	0.7	0.8	0.5	0.3	0.3	0.3	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	0.6	0.7	1.0	1.3	1.5	1.5	1.3	1.0	0.7	0.6	0.5	0.2	0.2		
40		0.3	1.0	2.1	4.4	7.0	8.5	9.9	9.9	8.5	7.0	4.4	2.1	1.0	0.3			
30	0.3	0.5	3.1	10.5	27.9	41.1	71.9	158.2	158.2	71.9	41.1	27.9	10.5	3.1	0.5	0.3		
20		1.0	7.1	27.2	64.0	125.2	778.2	2428.2	2428.2	778.2	125.2	64.0	27.2	7.1	1.0			
10	0.4	2.0	12.1	50.4	104.6	337.0	3180.3	9473.0	9473.0	3180.3	337.0	104.6	50.4	12.1	2.0	0.4		
0		3.2	15.7	59.1	117.2	338.2	3370.5	9876.4	9876.4	3370.5	338.2	117.2	59.1	15.7	3.2			
-10	0.6	3.7	16.0	54.6	115.7	193.4	1241.0	3581.4	3581.4	1241.0	193.4	115.7	54.6	16.0	3.7	0.6		
-20		3.4	13.6	32.6	82.3	121.0	188.9	369.9	369.9	188.9	121.0	82.3	32.6	13.6	3.4			
-30	0.5	2.9	9.9	20.4	45.5	87.0	112.7	123.9	123.9	112.7	87.0	45.5	20.4	9.9	2.9	0.5		
-40		1.9	6.8	15.1	25.7	42.6	73.9	99.9	99.9	73.9	42.6	25.7	15.1	6.8	1.9			
-50	0.3	0.9	4.1	9.8	17.9	26.7	34.2	38.4	38.4	34.2	26.7	17.9	9.8	4.1	0.9	0.3		
-60		0.4	1.5	4.6	9.5	15.4	21.6	25.5	25.5	21.6	15.4	9.5	4.6	1.5	0.4			
-70	0.2	1.1	3.5	8.8	12.7	8.8	3.5	1.1	0.2							0.2		
-80		1.1	3.5	8.8	12.7	8.8	3.5	1.1	0.2									
-90	0.2	1.1	3.5	8.8	12.7	8.8	3.5	1.1	0.2									

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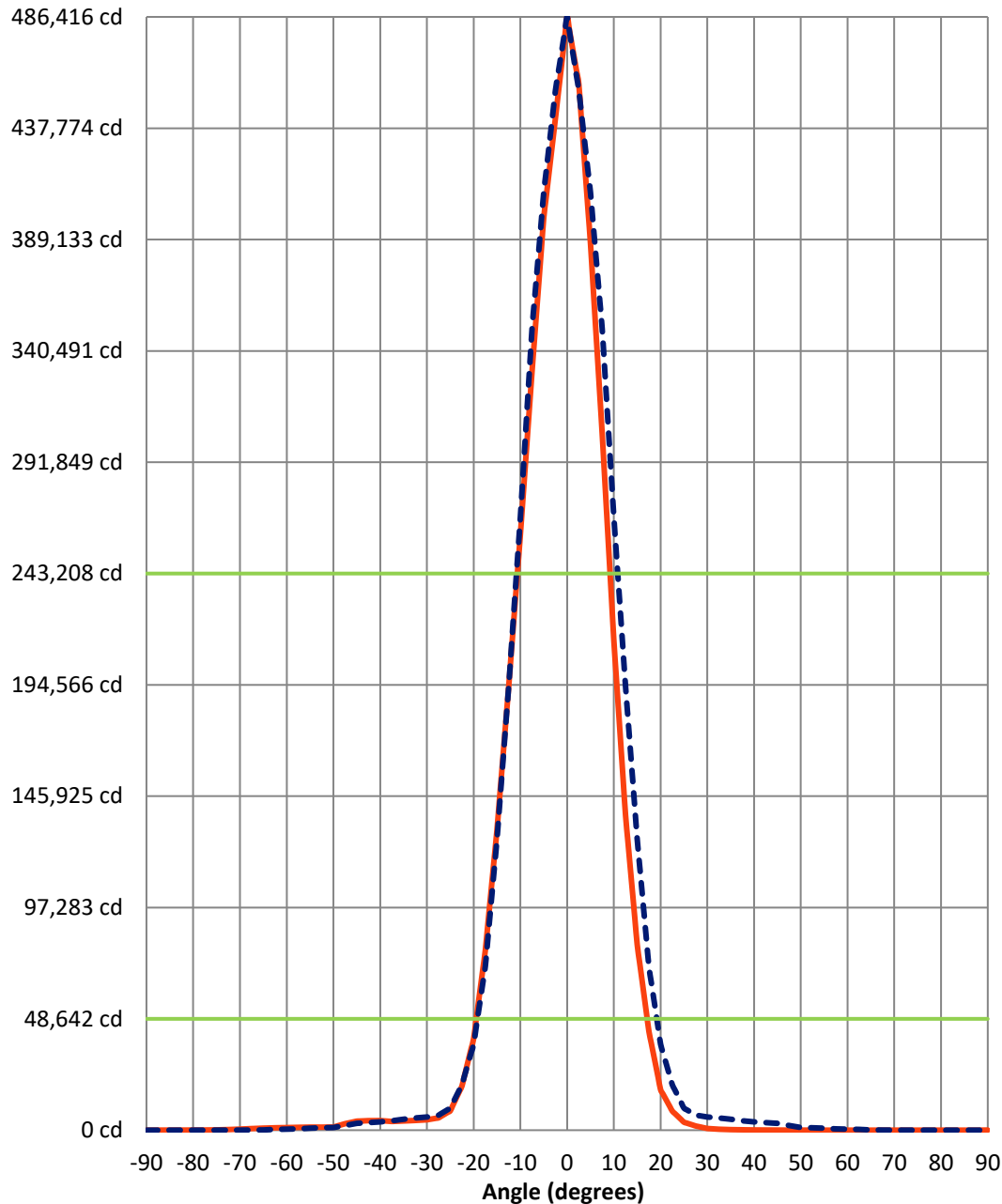
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 21.7°
V Angle: 19.8°
Lumens: 34809.7
Efficiency: 46.2%

Field:
H Angle: 38.4°
V Angle: 36.6°
Lumens: 64936.4
Efficiency: 86.2%

Spill:
Lumens: 10361.8
Efficiency: 13.8%

— 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°	7.9	7.9	7.9	8.4	8.9	9.3	9.8	9.8	9.8	9.8	9.8
87.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.6	7.2	7.0	6.7
85°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.7	7.6	7.6	7.6
82.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
80°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
77.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
75°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
72.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
70°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	8.0
67.5°	7.9	7.9	7.9	7.9	7.9	7.9	8.0	7.9	7.9	8.2	8.1
65°	7.9	7.9	7.9	7.9	7.9	8.0	8.0	7.9	8.3	8.5	8.3
62.5°	7.9	7.9	7.9	7.9	7.9	8.1	8.1	8.2	8.8	8.8	8.4
60°	7.9	7.9	7.9	7.9	7.9	8.3	8.3	8.7	9.2	8.9	8.5
57.5°	7.9	7.9	7.9	7.9	8.1	8.5	8.6	9.3	9.4	9.0	8.6
55°	7.9	7.9	8.0	7.9	8.3	8.7	9.0	9.8	9.5	9.1	8.7
52.5°	7.9	7.9	8.0	7.9	8.5	8.9	9.3	9.8	9.6	9.2	8.8
50°	7.9	7.9	8.0	7.9	8.7	9.1	9.6	9.8	9.7	9.3	10.3
47.5°	7.9	7.9	8.1	7.9	8.9	9.3	9.8	9.8	9.8	9.4	11.8
45°	7.9	7.9	8.1	8.1	9.1	9.4	9.8	9.8	9.9	10.3	12.9
42.5°	7.9	7.9	8.2	8.3	9.4	9.6	9.8	9.9	10.0	11.0	14.4
40°	7.9	7.9	8.3	8.5	9.5	9.7	9.8	10.0	10.4	11.5	15.9
37.5°	7.9	7.9	8.3	8.7	9.6	9.8	9.8	10.2	11.2	12.7	17.2
35°	7.9	7.9	8.4	8.9	9.7	9.8	9.8	10.5	12.1	14.8	17.9
32.5°	7.9	7.9	8.5	9.1	9.8	9.8	9.9	10.7	13.1	16.9	19.5
30°	7.9	7.9	8.6	9.2	9.8	9.8	10.1	11.2	14.2	19.1	21.5
27.5°	7.9	7.9	8.7	9.3	9.8	9.8	10.3	12.0	15.5	21.3	23.8
25°	7.9	7.9	8.8	9.5	9.8	9.8	10.5	12.9	17.4	23.4	26.6
22.5°	7.9	7.9	8.9	9.5	9.8	9.8	10.8	13.8	19.2	25.4	31.7
20°	7.9	7.9	9.0	9.6	9.8	10.0	11.0	14.7	20.9	27.7	36.5
17.5°	7.9	7.9	9.1	9.7	9.8	10.2	11.4	15.5	22.7	30.0	41.0
15°	7.9	7.9	9.2	9.7	9.8	10.4	11.8	16.4	24.4	32.4	45.2
12.5°	7.9	7.9	9.3	9.8	9.8	10.6	12.2	17.1	26.1	34.9	49.2
10°	7.9	7.9	9.4	9.8	9.8	10.8	12.5	17.8	27.8	38.7	55.1
7.5°	7.9	7.9	9.5	9.8	9.8	11.1	12.8	18.3	29.4	42.9	66.3
5°	7.9	7.9	9.6	9.8	9.8	11.3	13.1	18.8	30.9	47.1	77.8
2.5°	7.9	7.9	9.7	9.8	9.8	11.6	13.4	19.3	32.2	51.2	89.2
0°	7.9	7.9	9.8	9.8	9.8	11.8	13.7	19.6	33.4	55.0	100.1
-2.5°	7.9	7.9	9.8	9.9	10.0	12.2	15.3	24.2	43.2	71.8	129.3
-5°	7.9	8.0	9.8	10.1	10.2	12.6	16.8	28.6	52.6	87.9	156.8
-7.5°	7.9	8.0	9.8	10.2	10.3	13.0	18.2	32.6	61.3	102.9	182.0
-10°	7.9	8.1	9.8	10.3	10.5	13.3	19.4	36.2	69.0	116.4	204.1
-12.5°	7.9	8.1	9.7	10.4	10.7	13.6	20.5	39.3	75.6	128.1	217.3
-15°	7.9	8.1	9.7	10.5	10.8	13.8	21.4	41.6	81.5	137.3	225.1
-17.5°	7.9	8.2	9.7	10.6	11.0	14.0	22.0	44.3	87.0	144.9	230.4
-20°	7.9	8.2	9.6	10.6	11.2	14.1	22.6	46.8	91.1	150.7	233.0



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 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-CV2

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.9	8.2	9.6	10.7	11.3	14.1	23.4	48.1	93.6	154.6	232.9
-25°	7.9	8.3	9.6	10.7	11.5	14.3	23.8	48.0	94.4	156.5	229.9
-27.5°	7.9	8.3	9.6	10.7	11.7	14.5	23.6	46.5	93.5	156.7	231.0
-30°	7.9	8.3	9.5	10.7	11.8	14.6	22.8	43.4	91.7	155.3	229.8
-32.5°	7.9	8.3	9.5	10.7	12.1	14.6	21.5	41.9	88.1	151.5	225.9
-35°	7.9	8.3	9.5	10.6	12.2	14.4	20.9	40.3	82.4	145.2	219.3
-37.5°	7.9	8.4	9.5	10.5	12.4	14.4	20.7	37.8	74.3	136.5	202.4
-40°	7.9	8.4	9.5	10.4	12.4	14.5	20.3	34.4	64.0	125.4	183.8
-42.5°	7.9	8.4	9.5	10.2	12.4	14.6	19.8	30.2	56.7	108.1	163.5
-45°	7.9	8.4	9.5	10.1	12.2	14.5	19.0	26.8	50.8	89.4	141.8
-47.5°	7.9	8.4	9.5	10.0	12.0	14.4	18.1	25.7	43.6	70.0	119.9
-50°	7.9	8.4	9.5	9.9	11.8	14.2	17.6	24.3	34.6	59.6	97.1
-52.5°	7.9	8.4	9.5	10.0	11.5	13.8	17.1	22.7	30.2	48.5	74.6
-55°	7.9	8.3	9.5	10.0	11.2	13.4	16.5	20.9	27.7	36.5	60.7
-57.5°	7.9	8.3	9.5	10.0	10.9	13.0	15.7	19.9	25.1	31.4	45.9
-60°	7.9	8.3	9.5	9.9	10.5	12.5	14.9	18.6	22.7	28.4	34.3
-62.5°	7.9	8.3	9.5	9.9	10.5	12.0	14.2	17.2	21.2	25.3	30.9
-65°	7.9	8.3	9.4	9.9	10.4	11.4	13.4	15.9	19.5	23.3	27.4
-67.5°	7.9	8.2	9.2	9.9	10.2	11.0	12.6	15.0	17.9	21.4	24.9
-70°	7.9	8.2	9.1	9.8	10.1	10.7	11.7	14.1	16.8	19.4	22.7
-72.5°	7.9	8.2	9.0	9.7	10.0	10.5	11.3	13.1	15.7	18.2	20.7
-75°	7.9	8.1	8.8	9.5	9.8	10.2	10.8	12.4	14.5	16.9	19.3
-77.5°	7.9	8.1	8.7	9.3	9.7	9.9	10.3	11.8	13.6	15.6	17.8
-80°	7.9	8.1	8.5	9.1	9.5	9.7	9.9	11.2	12.7	14.4	16.3
-82.5°	7.9	8.0	8.4	8.9	9.3	9.6	9.8	10.6	11.8	13.2	14.7
-85°	7.9	8.0	8.2	8.7	9.2	9.5	9.8	10.4	11.1	12.0	13.1
-87.5°	7.9	7.9	8.1	8.6	9.0	9.4	9.8	10.1	10.5	10.9	11.4
-90°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.4	6.9	6.4	5.9



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 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-CV2

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	9.8	9.8	9.8	9.8	10.3	10.8	11.3	11.8	12.3	12.8	13.2
87.5°	6.6	6.4	6.2	5.9	5.9	5.9	5.9	5.9	5.4	4.9	4.4
85°	7.3	6.9	6.4	5.9	5.9	5.9	5.9	5.9	5.4	4.9	4.4
82.5°	7.4	6.9	6.4	5.9	5.9	5.9	5.9	5.9	5.4	4.9	4.4
80°	7.5	7.0	6.5	6.0	5.9	5.9	5.9	5.9	5.5	5.1	4.8
77.5°	7.5	7.0	6.5	6.0	6.0	6.3	6.6	6.9	6.9	6.7	6.4
75°	7.6	7.1	6.8	6.8	7.2	7.6	7.9	7.9	7.6	7.1	6.6
72.5°	7.7	7.5	7.5	7.9	7.9	7.9	7.9	7.9	8.9	10.1	11.1
70°	7.8	7.9	7.9	7.9	7.9	8.4	10.4	13.1	15.9	18.0	20.6
67.5°	7.9	7.9	7.9	8.1	9.5	11.8	14.9	22.6	31.6	34.4	34.3
65°	7.9	7.9	8.4	9.7	11.6	17.7	26.2	36.7	44.6	43.4	40.6
62.5°	7.9	8.2	9.2	12.1	17.6	25.5	33.8	41.3	48.9	47.6	41.4
60°	8.0	8.4	11.6	17.2	23.2	29.5	37.3	42.3	47.2	48.6	38.3
57.5°	8.1	10.2	15.6	21.5	26.9	31.5	34.5	38.8	41.7	42.2	31.6
55°	9.2	13.3	19.1	24.9	28.7	27.5	29.7	32.4	33.5	30.9	22.4
52.5°	11.7	16.2	22.2	26.9	27.4	25.3	24.7	26.0	24.0	20.5	17.7
50°	13.9	19.1	24.8	27.4	26.8	24.1	20.5	20.0	19.3	17.9	16.3
47.5°	16.1	21.7	26.6	28.4	26.4	23.9	19.8	19.3	19.3	20.5	19.4
45°	18.2	23.3	28.3	28.6	27.2	25.2	23.4	21.4	25.3	26.5	26.4
42.5°	20.0	24.3	28.7	29.2	29.9	29.5	28.9	31.1	33.4	35.5	36.1
40°	20.7	24.9	30.2	34.1	34.2	35.7	39.7	43.5	43.6	46.3	47.8
37.5°	21.0	27.4	34.6	43.2	40.6	45.4	52.2	62.5	63.9	58.0	66.3
35°	20.9	30.8	46.2	56.3	54.9	58.3	74.4	89.3	96.1	86.4	99.8
32.5°	23.0	35.2	61.2	71.9	81.8	85.6	101.2	130.9	147.4	153.7	164.8
30°	27.9	49.0	78.4	90.0	117.9	136.5	149.5	185.0	215.4	307.4	375.7
27.5°	34.1	65.9	95.5	122.1	163.3	195.4	223.4	259.8	371.3	538.9	713.1
25°	40.0	88.5	114.3	163.9	219.7	263.0	301.4	353.1	586.6	930.1	1076.9
22.5°	52.1	114.5	144.1	210.8	281.3	332.6	388.3	528.0	843.5	1359.8	1420.3
20°	71.9	139.6	184.9	263.4	349.5	402.3	476.1	711.8	1134.3	1528.8	1692.5
17.5°	93.1	166.9	229.6	325.5	429.9	489.7	576.0	888.7	1384.9	1736.1	1955.5
15°	115.2	196.0	272.6	393.5	515.0	597.4	775.9	1131.8	1582.8	1979.0	2298.9
12.5°	137.6	226.3	313.6	465.7	604.1	703.9	1018.2	1502.4	1914.4	2285.5	2719.7
10°	159.7	256.9	352.4	539.8	695.6	808.4	1285.1	1879.0	2283.7	2646.5	3091.7
7.5°	204.1	298.2	393.3	613.8	787.6	910.2	1564.0	2253.4	2622.3	2962.9	3399.7
5°	252.5	349.1	456.2	702.0	879.7	1004.1	1818.1	2615.3	2934.6	3241.7	3668.4
2.5°	299.7	397.5	517.0	786.5	967.8	1085.5	1948.1	2814.1	3133.1	3455.4	3900.3
0°	343.5	443.5	575.0	863.5	1050.0	1161.8	2043.0	2981.2	3299.1	3634.7	4103.8
-2.5°	380.0	490.3	636.2	900.1	1072.8	1181.3	2011.8	2979.6	3361.0	3733.8	4219.2
-5°	410.4	534.2	692.6	930.3	1091.1	1197.3	1950.0	2932.5	3412.0	3813.1	4306.2
-7.5°	434.3	574.5	743.4	953.9	1102.3	1205.3	1922.9	2952.0	3503.3	3882.7	4363.0
-10°	447.3	590.6	747.1	952.9	1104.4	1207.1	1862.8	2911.6	3579.0	3944.7	4387.1
-12.5°	429.9	583.8	737.4	943.1	1105.0	1206.4	1747.3	2804.7	3641.1	4003.7	4365.2
-15°	410.6	573.8	721.6	923.8	1105.1	1203.5	1570.7	2626.6	3605.8	3898.1	4273.7
-17.5°	390.4	560.3	699.3	894.4	1105.6	1198.7	1319.6	2244.6	3254.0	3674.6	4126.1
-20°	370.2	543.4	670.4	854.6	1099.7	1166.6	1222.7	1856.6	2741.2	3390.4	3846.7



REPORT NUMBER: P731719 (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°	350.9	523.0	641.0	816.4	1014.5	1111.2	1164.6	1481.0	2213.0	3045.0	3429.2
-25°	340.5	493.0	615.6	758.1	925.5	1053.5	1099.5	1165.2	1746.6	2499.1	3048.3
-27.5°	335.1	466.8	581.5	700.1	843.1	984.4	1034.1	1091.2	1387.2	1964.7	2648.0
-30°	326.3	433.3	545.5	647.1	774.9	895.7	968.3	1033.7	1114.1	1548.0	2088.4
-32.5°	306.7	398.6	506.4	605.5	711.5	818.5	920.6	991.9	1057.5	1175.0	1602.6
-35°	283.7	369.2	465.7	562.3	651.9	756.2	862.4	955.7	1008.7	1063.4	1251.9
-37.5°	264.6	338.1	424.2	517.5	603.7	698.3	801.3	899.9	973.2	1023.1	1094.6
-40°	244.0	305.3	386.7	471.7	556.1	641.4	736.2	832.1	923.5	1000.0	1057.6
-42.5°	221.9	280.8	349.2	425.4	506.2	586.5	669.2	760.3	856.6	956.3	1031.0
-45°	197.6	255.0	312.1	383.2	454.9	529.7	606.5	687.0	784.4	879.9	974.6
-47.5°	171.5	227.2	282.3	340.6	406.5	473.2	542.0	623.9	709.6	799.8	888.7
-50°	144.4	196.4	251.6	304.7	360.9	419.9	481.1	561.9	643.6	721.6	801.3
-52.5°	118.4	163.7	216.6	270.2	320.0	371.9	430.7	501.6	577.9	653.4	724.5
-55°	91.4	133.4	178.9	230.6	281.8	328.2	383.5	446.4	510.9	582.5	651.4
-57.5°	70.5	102.6	142.5	186.7	236.3	287.3	340.0	393.0	451.8	512.5	571.8
-60°	52.6	76.0	106.4	144.6	185.8	235.6	293.2	345.8	395.7	445.3	499.5
-62.5°	36.4	54.8	76.4	102.9	138.7	179.5	229.0	283.4	341.5	385.5	428.8
-65°	32.5	37.6	52.5	72.2	92.2	126.1	165.3	208.2	257.5	302.4	349.3
-67.5°	28.5	33.0	37.8	45.6	63.3	82.1	102.1	136.9	174.3	206.5	239.9
-70°	25.8	28.5	32.4	36.8	41.2	48.9	65.3	82.7	100.1	118.8	145.7
-72.5°	23.3	25.8	28.3	30.7	34.5	38.2	41.9	45.5	55.5	69.1	81.6
-75°	21.1	23.1	25.3	27.6	29.6	31.7	34.3	37.5	40.6	43.8	47.2
-77.5°	19.1	20.4	22.1	24.1	25.7	27.0	28.6	30.5	32.5	34.4	36.2
-80°	17.1	17.7	18.6	19.9	21.3	22.5	23.5	24.4	25.5	27.0	28.6
-82.5°	15.2	15.7	16.1	16.6	17.3	18.2	19.2	20.3	20.9	21.6	22.4
-85°	13.4	13.7	14.0	14.3	14.7	15.1	15.6	16.1	16.5	16.8	17.2
-87.5°	11.6	11.7	11.9	12.0	12.4	12.7	12.9	13.1	13.3	13.5	13.6
-90°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.4	4.9	4.4



REPORT NUMBER: P731719 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	13.7	13.7	13.7	13.7	13.7	16.6	19.6	22.5	25.5	29.9	34.3
87.5°	3.9	3.8	3.8	3.7	3.7	3.3	2.9	2.5	2.0	1.5	1.0
85°	3.9	3.9	3.9	3.9	3.9	3.4	3.0	2.5	2.0	2.0	2.0
82.5°	3.9	3.9	3.9	3.9	3.9	3.5	3.0	2.5	2.0	2.0	2.0
80°	4.5	4.5	4.4	4.2	3.9	3.5	3.0	2.5	2.0	2.0	2.0
77.5°	6.0	5.5	5.0	4.5	4.0	3.8	3.6	3.6	3.6	3.3	2.9
75°	6.1	5.9	6.1	5.8	5.1	4.8	4.6	4.3	4.0	3.8	3.8
72.5°	11.8	11.8	11.1	10.5	9.4	8.9	8.6	8.1	7.3	6.9	6.7
70°	21.5	21.1	20.3	18.6	15.9	13.7	12.5	11.1	9.8	9.4	9.4
67.5°	31.3	28.1	25.5	22.4	18.6	15.7	14.2	12.5	10.7	9.8	9.8
65°	36.2	29.5	25.2	21.9	19.4	16.6	14.0	11.7	9.6	8.6	8.8
62.5°	34.3	25.6	20.3	17.1	14.8	13.3	11.3	9.7	8.5	8.0	8.0
60°	28.5	19.1	14.4	12.8	11.3	9.9	9.3	8.5	7.5	6.6	6.9
57.5°	22.2	15.3	11.7	11.1	10.6	10.0	9.2	8.3	7.7	7.2	7.6
55°	16.5	13.6	11.9	12.0	11.7	10.7	9.7	9.6	9.4	9.1	9.3
52.5°	14.4	14.4	14.9	14.7	13.4	12.3	11.6	11.6	11.8	12.1	12.7
50°	16.5	17.0	16.7	15.4	15.1	14.6	13.7	14.6	15.7	16.1	16.5
47.5°	19.6	19.9	20.2	18.8	19.1	20.6	20.9	21.5	23.7	25.3	26.8
45°	25.2	27.3	27.8	28.7	29.2	32.2	33.7	34.4	40.5	43.4	43.8
42.5°	36.3	39.6	42.4	46.6	46.0	53.3	62.8	67.9	67.5	65.6	65.5
40°	53.1	59.0	71.9	78.8	86.3	94.8	95.7	85.2	85.4	96.0	95.4
37.5°	81.9	102.0	120.3	136.5	140.5	135.6	137.4	145.4	154.9	155.8	160.4
35°	138.1	178.8	188.2	200.6	214.3	201.4	199.7	212.6	208.3	230.3	246.1
32.5°	238.7	296.4	314.0	329.0	367.1	345.1	284.2	372.9	353.0	377.7	415.2
30°	379.7	493.3	569.7	592.5	602.1	604.7	662.0	712.8	753.0	806.6	882.7
27.5°	719.1	794.4	921.4	992.6	903.0	940.0	1087.0	1113.8	1265.2	1429.9	1565.1
25°	1093.5	1178.1	1404.0	1432.4	1357.5	1495.1	1637.4	1666.8	1934.1	2128.0	2592.3
22.5°	1432.0	1573.6	1815.4	1884.0	1946.4	2110.1	2275.3	2472.4	3074.4	3821.0	5175.7
20°	1718.5	1876.5	2112.8	2303.7	2459.5	2668.3	2860.8	3533.7	4830.5	7666.7	10751.7
17.5°	2065.2	2163.2	2455.3	2710.5	2954.8	3253.8	4104.8	5804.3	9558.3	15738.1	21595.3
15°	2532.5	2727.1	2908.4	3184.6	3640.8	4510.6	6388.2	11924.3	19778.0	30557.2	43908.6
12.5°	3071.2	3339.7	3591.1	3825.4	4479.8	6531.4	12522.6	22122.8	35325.0	52640.7	78843.9
10°	3552.4	3962.5	4271.2	4680.0	5947.4	9937.1	19185.9	32758.0	55956.7	86551.9	120747.3
7.5°	3886.3	4373.8	4790.1	5397.9	7464.6	14223.5	27027.0	48162.8	81139.0	122364.1	168492.8
5°	4204.1	4753.8	5162.4	5910.1	8467.7	17201.1	32970.3	61003.3	105786.9	160260.0	219484.4
2.5°	4504.4	5089.4	5491.1	6368.9	9101.1	18558.2	35459.7	68985.8	121730.1	186253.7	256592.0
0°	4782.8	5336.3	5756.2	6584.5	9636.3	19861.3	37577.5	71559.6	127116.3	193906.9	267888.3
-2.5°	4730.8	5142.2	5607.2	6437.5	9127.1	18464.1	35109.5	68536.6	120792.7	184770.9	252821.2
-5°	4712.7	5046.3	5466.1	6218.6	8498.2	15954.3	31182.6	61711.0	110431.5	168088.6	231471.3
-7.5°	4726.6	4991.5	5319.7	5942.0	7738.8	13489.1	27111.9	53495.8	93737.7	142554.3	199791.5
-10°	4756.2	4961.2	5293.9	5841.3	7099.1	10781.6	20518.1	41216.1	73701.7	112529.2	157128.7
-12.5°	4807.5	5083.6	5417.6	5789.6	6456.2	8587.6	16136.8	31994.9	54492.7	81770.8	115707.0
-15°	4789.9	5145.8	5523.1	5752.9	6115.8	7302.2	10467.0	21125.9	37704.3	55795.7	76333.5
-17.5°	4660.9	5087.1	5252.8	5431.1	5651.9	6236.3	8002.8	12741.3	22181.8	34068.7	45623.5
-20°	4361.4	4577.0	4784.4	4997.1	5241.6	5564.1	6113.6	7959.4	10723.9	17469.1	23108.0



REPORT NUMBER: P731719 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-CV2

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3799.3	4006.7	4186.4	4531.4	4778.2	5015.2	5317.8	5717.3	6780.5	8450.6	11226.4
-25°	3317.0	3444.9	3697.6	4100.5	4365.7	4507.6	4697.4	4848.9	5213.4	5601.3	6560.0
-27.5°	2931.5	3123.2	3434.7	3787.5	4041.7	4155.9	4255.7	4344.7	4573.6	4732.2	5004.5
-30°	2626.6	2936.9	3228.7	3551.6	3785.4	3921.1	3963.6	4092.1	4241.4	4354.6	4464.9
-32.5°	2189.1	2735.1	3000.5	3267.9	3532.0	3699.0	3813.4	3914.7	4054.8	4141.7	4185.1
-35°	1718.0	2277.0	2799.7	2979.0	3171.0	3410.9	3606.2	3709.2	3801.3	3885.1	3938.1
-37.5°	1296.5	1754.5	2241.0	2678.6	2884.1	3063.6	3347.6	3519.6	3603.1	3728.1	3799.2
-40°	1124.4	1254.4	1669.5	2079.3	2448.0	2856.9	3133.2	3398.2	3660.3	3820.9	3925.2
-42.5°	1085.9	1139.0	1188.2	1475.4	1844.1	2214.5	2621.8	3071.5	3447.6	3730.7	3993.9
-45°	1054.8	1095.2	1134.8	1179.7	1222.9	1506.2	1824.7	2159.9	2592.6	3011.5	3373.2
-47.5°	974.4	1050.7	1095.4	1129.3	1164.5	1203.7	1239.8	1315.8	1606.8	1916.2	2210.0
-50°	883.0	958.8	1026.6	1089.3	1134.7	1165.1	1187.8	1217.6	1252.3	1283.2	1311.6
-52.5°	793.0	866.4	935.4	1003.6	1067.6	1126.5	1180.9	1215.2	1241.6	1264.7	1279.0
-55°	717.4	780.7	842.5	909.9	975.7	1038.3	1097.4	1150.5	1200.4	1247.1	1273.8
-57.5°	634.7	697.0	758.9	821.2	881.1	938.7	995.7	1051.3	1104.0	1152.1	1181.3
-60°	552.8	605.2	666.7	730.7	790.5	846.2	902.9	956.7	1006.6	1049.0	1075.0
-62.5°	476.0	524.8	575.9	632.7	694.3	754.3	804.8	855.8	906.7	950.5	980.4
-65°	394.5	435.4	476.9	521.4	568.4	617.6	668.1	717.8	766.2	805.9	834.3
-67.5°	279.1	319.8	359.4	399.0	435.1	471.4	510.1	549.2	588.0	619.9	645.0
-70°	172.0	197.5	221.4	247.1	277.4	308.9	341.2	371.3	399.2	419.9	435.2
-72.5°	92.8	103.1	115.4	134.6	152.6	171.4	190.9	209.6	227.2	240.2	250.0
-75°	50.9	55.5	63.4	71.0	78.1	86.4	94.9	102.9	110.3	117.7	124.4
-77.5°	38.5	40.8	42.9	44.8	46.4	49.4	52.7	56.1	59.4	63.9	68.6
-80°	30.1	31.3	32.4	33.6	34.8	36.8	38.9	41.0	43.1	45.2	47.2
-82.5°	23.2	23.8	24.3	24.8	25.3	26.6	28.0	29.3	30.6	32.7	34.9
-85°	17.5	17.9	18.3	18.6	18.9	19.9	21.0	22.1	23.2	24.7	26.3
-87.5°	13.7	14.1	14.6	15.0	15.5	16.2	16.9	17.4	18.0	19.4	20.9
-90°	3.9	3.4	3.0	2.5	2.0	2.0	2.0	2.0	2.0	1.5	1.0



REPORT NUMBER: P731719 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	38.8	43.2	46.1	49.1	46.1	43.2	38.8	34.3	29.9	25.5	22.5
87.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.0	2.5
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5
77.5°	2.5	2.0	2.0	2.0	2.0	2.0	2.5	2.9	3.3	3.6	3.6
75°	3.8	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.8	4.0	4.3
72.5°	6.3	5.9	5.9	5.9	5.9	5.9	6.3	6.7	6.9	7.3	8.1
70°	9.6	9.7	9.8	9.8	9.8	9.7	9.6	9.4	9.4	9.8	11.1
67.5°	9.8	9.8	8.9	7.9	8.9	9.8	9.8	9.8	9.8	10.7	12.5
65°	9.2	9.7	8.9	7.9	8.9	9.7	9.2	8.8	8.6	9.6	11.7
62.5°	8.0	8.0	7.9	7.9	7.9	8.0	8.0	8.0	8.0	8.5	9.7
60°	7.3	7.8	7.9	7.9	7.9	7.8	7.3	6.9	6.6	7.5	8.5
57.5°	7.8	7.9	8.7	9.8	8.7	7.9	7.8	7.6	7.2	7.7	8.3
55°	9.5	9.7	9.8	9.8	9.8	9.7	9.5	9.3	9.1	9.4	9.6
52.5°	13.1	13.4	13.6	13.7	13.6	13.4	13.1	12.7	12.1	11.8	11.6
50°	17.0	17.4	16.9	15.7	16.9	17.4	17.0	16.5	16.1	15.7	14.6
47.5°	28.1	28.8	28.6	27.5	28.6	28.8	28.1	26.8	25.3	23.7	21.5
45°	44.9	44.9	44.7	45.1	44.7	44.9	44.9	43.8	43.4	40.5	34.4
42.5°	67.2	67.9	68.1	68.7	68.1	67.9	67.2	65.5	65.6	67.5	67.9
40°	97.1	97.6	96.5	94.2	96.5	97.6	97.1	95.4	96.0	85.4	85.2
37.5°	168.7	172.5	171.5	168.8	171.5	172.5	168.7	160.4	155.8	154.9	145.4
35°	251.8	249.5	242.8	243.4	242.8	249.5	251.8	246.1	230.3	208.3	212.6
32.5°	393.3	407.5	411.8	414.1	411.8	407.5	393.3	415.2	377.7	353.0	372.9
30°	936.3	908.0	782.4	743.8	782.4	908.0	936.3	882.7	806.6	753.0	712.8
27.5°	1663.3	1752.9	1835.0	1842.9	1835.0	1752.9	1663.3	1565.1	1429.9	1265.2	1113.8
25°	3071.8	3373.6	3500.7	3483.6	3500.7	3373.6	3071.8	2592.3	2128.0	1934.1	1666.8
22.5°	6777.5	7807.3	8344.1	8362.6	8344.1	7807.3	6777.5	5175.7	3821.0	3074.4	2472.4
20°	14788.4	17273.9	17901.6	17714.2	17901.6	17273.9	14788.4	10751.7	7666.7	4830.5	3533.7
17.5°	30492.2	37844.9	42864.6	43210.1	42864.6	37844.9	30492.2	21595.3	15738.1	9558.3	5804.3
15°	59346.9	72862.6	79871.6	81062.4	79871.6	72862.6	59346.9	43908.6	30557.2	19778.0	11924.3
12.5°	103674.4	124246.5	135692.7	137651.5	135692.7	124246.5	103674.4	78843.9	52640.7	35325.0	22122.8
10°	158136.3	186829.3	205486.1	213907.5	205486.1	186829.3	158136.3	120747.3	86551.9	55956.7	32758.0
7.5°	214018.4	259222.1	296138.2	304508.1	296138.2	259222.1	214018.4	168492.8	122364.1	81139.0	48162.8
5°	283152.0	343763.0	379214.4	387401.6	379214.4	343763.0	283152.0	219484.4	160260.0	105786.9	61003.3
2.5°	334418.5	399585.7	436742.5	457161.5	436742.5	399585.7	334418.5	256592.0	186253.7	121730.1	68985.8
0°	350328.5	409625.8	454296.1	486415.7	454296.1	409625.8	350328.5	267888.3	193906.9	127116.3	71559.6
-2.5°	328794.0	391667.9	424081.0	442138.9	424081.0	391667.9	328794.0	252821.2	184770.9	120792.7	68536.6
-5°	294535.2	352330.3	387679.1	398576.5	387679.1	352330.3	294535.2	231471.3	168088.6	110431.5	61711.0
-7.5°	249651.4	291857.6	318330.4	331679.0	318330.4	291857.6	249651.4	199791.5	142554.3	93737.7	53495.8
-10°	201068.7	233101.1	252847.2	260232.2	252847.2	233101.1	201068.7	157128.7	112529.2	73701.7	41216.1
-12.5°	147270.1	172783.3	187953.3	193805.8	187953.3	172783.3	147270.1	115707.0	81770.8	54492.7	31994.9
-15°	97205.1	115596.4	127265.2	131339.8	127265.2	115596.4	97205.1	76333.5	55795.7	37704.3	21125.9
-17.5°	58915.8	69067.9	76621.4	78526.8	76621.4	69067.9	58915.8	45623.5	34068.7	22181.8	12741.3
-20°	31177.2	35745.7	38297.0	40022.9	38297.0	35745.7	31177.2	23108.0	17469.1	10723.9	7959.4



REPORT NUMBER: P731719 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	14780.4	17268.3	18415.0	19290.2	18415.0	17268.3	14780.4	11226.4	8450.6	6780.5	5717.3
-25°	7397.0	7911.6	8135.7	8448.9	8135.7	7911.6	7397.0	6560.0	5601.3	5213.4	4848.9
-27.5°	5188.4	5309.1	5356.7	5395.1	5356.7	5309.1	5188.4	5004.5	4732.2	4573.6	4344.7
-30°	4521.4	4541.3	4538.4	4535.5	4538.4	4541.3	4521.4	4464.9	4354.6	4241.4	4092.1
-32.5°	4232.1	4253.3	4251.7	4249.0	4251.7	4253.3	4232.1	4185.1	4141.7	4054.8	3914.7
-35°	3972.1	3999.6	4013.2	4019.4	4013.2	3999.6	3972.1	3938.1	3885.1	3801.3	3709.2
-37.5°	3838.8	3844.7	3829.1	3811.3	3829.1	3844.7	3838.8	3799.2	3728.1	3603.1	3519.6
-40°	3976.4	4069.7	4163.4	4192.1	4163.4	4069.7	3976.4	3925.2	3820.9	3660.3	3398.2
-42.5°	4080.5	4140.4	4167.5	4158.7	4167.5	4140.4	4080.5	3993.9	3730.7	3447.6	3071.5
-45°	3612.3	3798.0	3908.0	3935.0	3908.0	3798.0	3612.3	3373.2	3011.5	2592.6	2159.9
-47.5°	2456.5	2664.6	2795.7	2837.9	2795.7	2664.6	2456.5	2210.0	1916.2	1606.8	1315.8
-50°	1339.1	1365.3	1373.9	1366.0	1373.9	1365.3	1339.1	1311.6	1283.2	1252.3	1217.6
-52.5°	1293.2	1308.7	1318.7	1324.7	1318.7	1308.7	1293.2	1279.0	1264.7	1241.6	1215.2
-55°	1296.7	1316.7	1327.7	1332.6	1327.7	1316.7	1296.7	1273.8	1247.1	1200.4	1150.5
-57.5°	1207.1	1229.6	1240.4	1244.3	1240.4	1229.6	1207.1	1181.3	1152.1	1104.0	1051.3
-60°	1098.7	1120.0	1128.3	1130.4	1128.3	1120.0	1098.7	1075.0	1049.0	1006.6	956.7
-62.5°	1008.2	1033.4	1044.0	1048.0	1044.0	1033.4	1008.2	980.4	950.5	906.7	855.8
-65°	859.4	880.9	888.1	889.0	888.1	880.9	859.4	834.3	805.9	766.2	717.8
-67.5°	667.5	686.9	693.7	694.8	693.7	686.9	667.5	645.0	619.9	588.0	549.2
-70°	447.5	456.8	460.7	461.2	460.7	456.8	447.5	435.2	419.9	399.2	371.3
-72.5°	257.6	263.2	265.1	264.9	265.1	263.2	257.6	250.0	240.2	227.2	209.6
-75°	130.5	135.8	137.1	137.4	137.1	135.8	130.5	124.4	117.7	110.3	102.9
-77.5°	73.2	77.8	78.4	78.5	78.4	77.8	73.2	68.6	63.9	59.4	56.1
-80°	49.0	50.8	51.0	51.0	51.0	50.8	49.0	47.2	45.2	43.1	41.0
-82.5°	37.0	39.2	39.3	39.3	39.3	39.2	37.0	34.9	32.7	30.6	29.3
-85°	27.8	29.3	30.4	31.4	30.4	29.3	27.8	26.3	24.7	23.2	22.1
-87.5°	22.3	23.7	24.6	25.5	24.6	23.7	22.3	20.9	19.4	18.0	17.4
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	19.6	16.6	13.7	13.7	13.7	13.7	13.7	13.2	12.8	12.3	11.8
87.5°	2.9	3.3	3.7	3.7	3.8	3.8	3.9	4.4	4.9	5.4	5.9
85°	3.0	3.4	3.9	3.9	3.9	3.9	3.9	4.4	4.9	5.4	5.9
82.5°	3.0	3.5	3.9	3.9	3.9	3.9	3.9	4.4	4.9	5.4	5.9
80°	3.0	3.5	3.9	4.2	4.4	4.5	4.5	4.8	5.1	5.5	5.9
77.5°	3.6	3.8	4.0	4.5	5.0	5.5	6.0	6.4	6.7	6.9	6.9
75°	4.6	4.8	5.1	5.8	6.1	5.9	6.1	6.6	7.1	7.6	7.9
72.5°	8.6	8.9	9.4	10.5	11.1	11.8	11.8	11.1	10.1	8.9	7.9
70°	12.5	13.7	15.9	18.6	20.3	21.1	21.5	20.6	18.0	15.9	13.1
67.5°	14.2	15.7	18.6	22.4	25.5	28.1	31.3	34.3	34.4	31.6	22.6
65°	14.0	16.6	19.4	21.9	25.2	29.5	36.2	40.6	43.4	44.6	36.7
62.5°	11.3	13.3	14.8	17.1	20.3	25.6	34.3	41.4	47.6	48.9	41.3
60°	9.3	9.9	11.3	12.8	14.4	19.1	28.5	38.3	48.6	47.2	42.3
57.5°	9.2	10.0	10.6	11.1	11.7	15.3	22.2	31.6	42.2	41.7	38.8
55°	9.7	10.7	11.7	12.0	11.9	13.6	16.5	22.4	30.9	33.5	32.4
52.5°	11.6	12.3	13.4	14.7	14.9	14.4	14.4	17.7	20.5	24.0	26.0
50°	13.7	14.6	15.1	15.4	16.7	17.0	16.5	16.3	17.9	19.3	20.0
47.5°	20.9	20.6	19.1	18.8	20.2	19.9	19.6	19.4	20.5	19.3	19.3
45°	33.7	32.2	29.2	28.7	27.8	27.3	25.2	26.4	26.5	25.3	21.4
42.5°	62.8	53.3	46.0	46.6	42.4	39.6	36.3	36.1	35.5	33.4	31.1
40°	95.7	94.8	86.3	78.8	71.9	59.0	53.1	47.8	46.3	43.6	43.5
37.5°	137.4	135.6	140.5	136.5	120.3	102.0	81.9	66.3	58.0	63.9	62.5
35°	199.7	201.4	214.3	200.6	188.2	178.8	138.1	99.8	86.4	96.1	89.3
32.5°	284.2	345.1	367.1	329.0	314.0	296.4	238.7	164.8	153.7	147.4	130.9
30°	662.0	604.7	602.1	592.5	569.7	493.3	379.7	375.7	307.4	215.4	185.0
27.5°	1087.0	940.0	903.0	992.6	921.4	794.4	719.1	713.1	538.9	371.3	259.8
25°	1637.4	1495.1	1357.5	1432.4	1404.0	1178.1	1093.5	1076.9	930.1	586.6	353.1
22.5°	2275.3	2110.1	1946.4	1884.0	1815.4	1573.6	1432.0	1420.3	1359.8	843.5	528.0
20°	2860.8	2668.3	2459.5	2303.7	2112.8	1876.5	1718.5	1692.5	1528.8	1134.3	711.8
17.5°	4104.8	3253.8	2954.8	2710.5	2455.3	2163.2	2065.2	1955.5	1736.1	1384.9	888.7
15°	6388.2	4510.6	3640.8	3184.6	2908.4	2727.1	2532.5	2298.9	1979.0	1582.8	1131.8
12.5°	12522.6	6531.4	4479.8	3825.4	3591.1	3339.7	3071.2	2719.7	2285.5	1914.4	1502.4
10°	19185.9	9937.1	5947.4	4680.0	4271.2	3962.5	3552.4	3091.7	2646.5	2283.7	1879.0
7.5°	27027.0	14223.5	7464.6	5397.9	4790.1	4373.8	3886.3	3399.7	2962.9	2622.3	2253.4
5°	32970.3	17201.1	8467.7	5910.1	5162.4	4753.8	4204.1	3668.4	3241.7	2934.6	2615.3
2.5°	35459.7	18558.2	9101.1	6368.9	5491.1	5089.4	4504.4	3900.3	3455.4	3133.1	2814.1
0°	37577.5	19861.3	9636.3	6584.5	5756.2	5336.3	4782.8	4103.8	3634.7	3299.1	2981.2
-2.5°	35109.5	18464.1	9127.1	6437.5	5607.2	5142.2	4730.8	4219.2	3733.8	3361.0	2979.6
-5°	31182.6	15954.3	8498.2	6218.6	5466.1	5046.3	4712.7	4306.2	3813.1	3412.0	2932.5
-7.5°	27111.9	13489.1	7738.8	5942.0	5319.7	4991.5	4726.6	4363.0	3882.7	3503.3	2952.0
-10°	20518.1	10781.6	7099.1	5841.3	5293.9	4961.2	4756.2	4387.1	3944.7	3579.0	2911.6
-12.5°	16136.8	8587.6	6456.2	5789.6	5417.6	5083.6	4807.5	4365.2	4003.7	3641.1	2804.7
-15°	10467.0	7302.2	6115.8	5752.9	5523.1	5145.8	4789.9	4273.7	3898.1	3605.8	2626.6
-17.5°	8002.8	6236.3	5651.9	5431.1	5252.8	5087.1	4660.9	4126.1	3674.6	3254.0	2244.6
-20°	6113.6	5564.1	5241.6	4997.1	4784.4	4577.0	4361.4	3846.7	3390.4	2741.2	1856.6



REPORT NUMBER: P731719 (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°	5317.8	5015.2	4778.2	4531.4	4186.4	4006.7	3799.3	3429.2	3045.0	2213.0	1481.0
-25°	4697.4	4507.6	4365.7	4100.5	3697.6	3444.9	3317.0	3048.3	2499.1	1746.6	1165.2
-27.5°	4255.7	4155.9	4041.7	3787.5	3434.7	3123.2	2931.5	2648.0	1964.7	1387.2	1091.2
-30°	3963.6	3921.1	3785.4	3551.6	3228.7	2936.9	2626.6	2088.4	1548.0	1114.1	1033.7
-32.5°	3813.4	3699.0	3532.0	3267.9	3000.5	2735.1	2189.1	1602.6	1175.0	1057.5	991.9
-35°	3606.2	3410.9	3171.0	2979.0	2799.7	2277.0	1718.0	1251.9	1063.4	1008.7	955.7
-37.5°	3347.6	3063.6	2884.1	2678.6	2241.0	1754.5	1296.5	1094.6	1023.1	973.2	899.9
-40°	3133.2	2856.9	2448.0	2079.3	1669.5	1254.4	1124.4	1057.6	1000.0	923.5	832.1
-42.5°	2621.8	2214.5	1844.1	1475.4	1188.2	1139.0	1085.9	1031.0	956.3	856.6	760.3
-45°	1824.7	1506.2	1222.9	1179.7	1134.8	1095.2	1054.8	974.6	879.9	784.4	687.0
-47.5°	1239.8	1203.7	1164.5	1129.3	1095.4	1050.7	974.4	888.7	799.8	709.6	623.9
-50°	1187.8	1165.1	1134.7	1089.3	1026.6	958.8	883.0	801.3	721.6	643.6	561.9
-52.5°	1180.9	1126.5	1067.6	1003.6	935.4	866.4	793.0	724.5	653.4	577.9	501.6
-55°	1097.4	1038.3	975.7	909.9	842.5	780.7	717.4	651.4	582.5	510.9	446.4
-57.5°	995.7	938.7	881.1	821.2	758.9	697.0	634.7	571.8	512.5	451.8	393.0
-60°	902.9	846.2	790.5	730.7	666.7	605.2	552.8	499.5	445.3	395.7	345.8
-62.5°	804.8	754.3	694.3	632.7	575.9	524.8	476.0	428.8	385.5	341.5	283.4
-65°	668.1	617.6	568.4	521.4	476.9	435.4	394.5	349.3	302.4	257.5	208.2
-67.5°	510.1	471.4	435.1	399.0	359.4	319.8	279.1	239.9	206.5	174.3	136.9
-70°	341.2	308.9	277.4	247.1	221.4	197.5	172.0	145.7	118.8	100.1	82.7
-72.5°	190.9	171.4	152.6	134.6	115.4	103.1	92.8	81.6	69.1	55.5	45.5
-75°	94.9	86.4	78.1	71.0	63.4	55.5	50.9	47.2	43.8	40.6	37.5
-77.5°	52.7	49.4	46.4	44.8	42.9	40.8	38.5	36.2	34.4	32.5	30.5
-80°	38.9	36.8	34.8	33.6	32.4	31.3	30.1	28.6	27.0	25.5	24.4
-82.5°	28.0	26.6	25.3	24.8	24.3	23.8	23.2	22.4	21.6	20.9	20.3
-85°	21.0	19.9	18.9	18.6	18.3	17.9	17.5	17.2	16.8	16.5	16.1
-87.5°	16.9	16.2	15.5	15.0	14.6	14.1	13.7	13.6	13.5	13.3	13.1
-90°	2.0	2.0	2.0	2.5	3.0	3.4	3.9	4.4	4.9	5.4	5.9



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 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	11.3	10.8	10.3	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
87.5°	5.9	5.9	5.9	5.9	6.2	6.4	6.6	6.7	7.0	7.2	7.6
85°	5.9	5.9	5.9	5.9	6.4	6.9	7.3	7.6	7.6	7.6	7.7
82.5°	5.9	5.9	5.9	5.9	6.4	6.9	7.4	7.9	7.9	7.9	7.9
80°	5.9	5.9	5.9	6.0	6.5	7.0	7.5	7.9	7.9	7.9	7.9
77.5°	6.6	6.3	6.0	6.0	6.5	7.0	7.5	7.9	7.9	7.9	7.9
75°	7.9	7.6	7.2	6.8	6.8	7.1	7.6	7.9	7.9	7.9	7.9
72.5°	7.9	7.9	7.9	7.9	7.5	7.5	7.7	7.9	7.9	7.9	7.9
70°	10.4	8.4	7.9	7.9	7.9	7.9	7.8	8.0	7.9	7.9	7.9
67.5°	14.9	11.8	9.5	8.1	7.9	7.9	7.9	8.1	8.2	7.9	7.9
65°	26.2	17.7	11.6	9.7	8.4	7.9	7.9	8.3	8.5	8.3	7.9
62.5°	33.8	25.5	17.6	12.1	9.2	8.2	7.9	8.4	8.8	8.8	8.2
60°	37.3	29.5	23.2	17.2	11.6	8.4	8.0	8.5	8.9	9.2	8.7
57.5°	34.5	31.5	26.9	21.5	15.6	10.2	8.1	8.6	9.0	9.4	9.3
55°	29.7	27.5	28.7	24.9	19.1	13.3	9.2	8.7	9.1	9.5	9.8
52.5°	24.7	25.3	27.4	26.9	22.2	16.2	11.7	8.8	9.2	9.6	9.8
50°	20.5	24.1	26.8	27.4	24.8	19.1	13.9	10.3	9.3	9.7	9.8
47.5°	19.8	23.9	26.4	28.4	26.6	21.7	16.1	11.8	9.4	9.8	9.8
45°	23.4	25.2	27.2	28.6	28.3	23.3	18.2	12.9	10.3	9.9	9.8
42.5°	28.9	29.5	29.9	29.2	28.7	24.3	20.0	14.4	11.0	10.0	9.9
40°	39.7	35.7	34.2	34.1	30.2	24.9	20.7	15.9	11.5	10.4	10.0
37.5°	52.2	45.4	40.6	43.2	34.6	27.4	21.0	17.2	12.7	11.2	10.2
35°	74.4	58.3	54.9	56.3	46.2	30.8	20.9	17.9	14.8	12.1	10.5
32.5°	101.2	85.6	81.8	71.9	61.2	35.2	23.0	19.5	16.9	13.1	10.7
30°	149.5	136.5	117.9	90.0	78.4	49.0	27.9	21.5	19.1	14.2	11.2
27.5°	223.4	195.4	163.3	122.1	95.5	65.9	34.1	23.8	21.3	15.5	12.0
25°	301.4	263.0	219.7	163.9	114.3	88.5	40.0	26.6	23.4	17.4	12.9
22.5°	388.3	332.6	281.3	210.8	144.1	114.5	52.1	31.7	25.4	19.2	13.8
20°	476.1	402.3	349.5	263.4	184.9	139.6	71.9	36.5	27.7	20.9	14.7
17.5°	576.0	489.7	429.9	325.5	229.6	166.9	93.1	41.0	30.0	22.7	15.5
15°	775.9	597.4	515.0	393.5	272.6	196.0	115.2	45.2	32.4	24.4	16.4
12.5°	1018.2	703.9	604.1	465.7	313.6	226.3	137.6	49.2	34.9	26.1	17.1
10°	1285.1	808.4	695.6	539.8	352.4	256.9	159.7	55.1	38.7	27.8	17.8
7.5°	1564.0	910.2	787.6	613.8	393.3	298.2	204.1	66.3	42.9	29.4	18.3
5°	1818.1	1004.1	879.7	702.0	456.2	349.1	252.5	77.8	47.1	30.9	18.8
2.5°	1948.1	1085.5	967.8	786.5	517.0	397.5	299.7	89.2	51.2	32.2	19.3
0°	2043.0	1161.8	1050.0	863.5	575.0	443.5	343.5	100.1	55.0	33.4	19.6
-2.5°	2011.8	1181.3	1072.8	900.1	636.2	490.3	380.0	129.3	71.8	43.2	24.2
-5°	1950.0	1197.3	1091.1	930.3	692.6	534.2	410.4	156.8	87.9	52.6	28.6
-7.5°	1922.9	1205.3	1102.3	953.9	743.4	574.5	434.3	182.0	102.9	61.3	32.6
-10°	1862.8	1207.1	1104.4	952.9	747.1	590.6	447.3	204.1	116.4	69.0	36.2
-12.5°	1747.3	1206.4	1105.0	943.1	737.4	583.8	429.9	217.3	128.1	75.6	39.3
-15°	1570.7	1203.5	1105.1	923.8	721.6	573.8	410.6	225.1	137.3	81.5	41.6
-17.5°	1319.6	1198.7	1105.6	894.4	699.3	560.3	390.4	230.4	144.9	87.0	44.3
-20°	1222.7	1166.6	1099.7	854.6	670.4	543.4	370.2	233.0	150.7	91.1	46.8



REPORT NUMBER: P731719 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1164.6	1111.2	1014.5	816.4	641.0	523.0	350.9	232.9	154.6	93.6	48.1
-25°	1099.5	1053.5	925.5	758.1	615.6	493.0	340.5	229.9	156.5	94.4	48.0
-27.5°	1034.1	984.4	843.1	700.1	581.5	466.8	335.1	231.0	156.7	93.5	46.5
-30°	968.3	895.7	774.9	647.1	545.5	433.3	326.3	229.8	155.3	91.7	43.4
-32.5°	920.6	818.5	711.5	605.5	506.4	398.6	306.7	225.9	151.5	88.1	41.9
-35°	862.4	756.2	651.9	562.3	465.7	369.2	283.7	219.3	145.2	82.4	40.3
-37.5°	801.3	698.3	603.7	517.5	424.2	338.1	264.6	202.4	136.5	74.3	37.8
-40°	736.2	641.4	556.1	471.7	386.7	305.3	244.0	183.8	125.4	64.0	34.4
-42.5°	669.2	586.5	506.2	425.4	349.2	280.8	221.9	163.5	108.1	56.7	30.2
-45°	606.5	529.7	454.9	383.2	312.1	255.0	197.6	141.8	89.4	50.8	26.8
-47.5°	542.0	473.2	406.5	340.6	282.3	227.2	171.5	119.9	70.0	43.6	25.7
-50°	481.1	419.9	360.9	304.7	251.6	196.4	144.4	97.1	59.6	34.6	24.3
-52.5°	430.7	371.9	320.0	270.2	216.6	163.7	118.4	74.6	48.5	30.2	22.7
-55°	383.5	328.2	281.8	230.6	178.9	133.4	91.4	60.7	36.5	27.7	20.9
-57.5°	340.0	287.3	236.3	186.7	142.5	102.6	70.5	45.9	31.4	25.1	19.9
-60°	293.2	235.6	185.8	144.6	106.4	76.0	52.6	34.3	28.4	22.7	18.6
-62.5°	229.0	179.5	138.7	102.9	76.4	54.8	36.4	30.9	25.3	21.2	17.2
-65°	165.3	126.1	92.2	72.2	52.5	37.6	32.5	27.4	23.3	19.5	15.9
-67.5°	102.1	82.1	63.3	45.6	37.8	33.0	28.5	24.9	21.4	17.9	15.0
-70°	65.3	48.9	41.2	36.8	32.4	28.5	25.8	22.7	19.4	16.8	14.1
-72.5°	41.9	38.2	34.5	30.7	28.3	25.8	23.3	20.7	18.2	15.7	13.1
-75°	34.3	31.7	29.6	27.6	25.3	23.1	21.1	19.3	16.9	14.5	12.4
-77.5°	28.6	27.0	25.7	24.1	22.1	20.4	19.1	17.8	15.6	13.6	11.8
-80°	23.5	22.5	21.3	19.9	18.6	17.7	17.1	16.3	14.4	12.7	11.2
-82.5°	19.2	18.2	17.3	16.6	16.1	15.7	15.2	14.7	13.2	11.8	10.6
-85°	15.6	15.1	14.7	14.3	14.0	13.7	13.4	13.1	12.0	11.1	10.4
-87.5°	12.9	12.7	12.4	12.0	11.9	11.7	11.6	11.4	10.9	10.5	10.1
-90°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.4	6.9	7.4



REPORT NUMBER: P731719 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	9.8	9.3	8.9	8.4	7.9	7.9	7.9
87.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9
85°	7.9	7.9	7.9	7.9	7.9	7.9	7.9
82.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9
80°	7.9	7.9	7.9	7.9	7.9	7.9	7.9
77.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9
75°	7.9	7.9	7.9	7.9	7.9	7.9	7.9
72.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9
70°	7.9	7.9	7.9	7.9	7.9	7.9	7.9
67.5°	8.0	7.9	7.9	7.9	7.9	7.9	7.9
65°	8.0	8.0	7.9	7.9	7.9	7.9	7.9
62.5°	8.1	8.1	7.9	7.9	7.9	7.9	7.9
60°	8.3	8.3	7.9	7.9	7.9	7.9	7.9
57.5°	8.6	8.5	8.1	7.9	7.9	7.9	7.9
55°	9.0	8.7	8.3	7.9	8.0	7.9	7.9
52.5°	9.3	8.9	8.5	7.9	8.0	7.9	7.9
50°	9.6	9.1	8.7	7.9	8.0	7.9	7.9
47.5°	9.8	9.3	8.9	7.9	8.1	7.9	7.9
45°	9.8	9.4	9.1	8.1	8.1	7.9	7.9
42.5°	9.8	9.6	9.4	8.3	8.2	7.9	7.9
40°	9.8	9.7	9.5	8.5	8.3	7.9	7.9
37.5°	9.8	9.8	9.6	8.7	8.3	7.9	7.9
35°	9.8	9.8	9.7	8.9	8.4	7.9	7.9
32.5°	9.9	9.8	9.8	9.1	8.5	7.9	7.9
30°	10.1	9.8	9.8	9.2	8.6	7.9	7.9
27.5°	10.3	9.8	9.8	9.3	8.7	7.9	7.9
25°	10.5	9.8	9.8	9.5	8.8	7.9	7.9
22.5°	10.8	9.8	9.8	9.5	8.9	7.9	7.9
20°	11.0	10.0	9.8	9.6	9.0	7.9	7.9
17.5°	11.4	10.2	9.8	9.7	9.1	7.9	7.9
15°	11.8	10.4	9.8	9.7	9.2	7.9	7.9
12.5°	12.2	10.6	9.8	9.8	9.3	7.9	7.9
10°	12.5	10.8	9.8	9.8	9.4	7.9	7.9
7.5°	12.8	11.1	9.8	9.8	9.5	7.9	7.9
5°	13.1	11.3	9.8	9.8	9.6	7.9	7.9
2.5°	13.4	11.6	9.8	9.8	9.7	7.9	7.9
0°	13.7	11.8	9.8	9.8	9.8	7.9	7.9
-2.5°	15.3	12.2	10.0	9.9	9.8	7.9	7.9
-5°	16.8	12.6	10.2	10.1	9.8	8.0	7.9
-7.5°	18.2	13.0	10.3	10.2	9.8	8.0	7.9
-10°	19.4	13.3	10.5	10.3	9.8	8.1	7.9
-12.5°	20.5	13.6	10.7	10.4	9.7	8.1	7.9
-15°	21.4	13.8	10.8	10.5	9.7	8.1	7.9
-17.5°	22.0	14.0	11.0	10.6	9.7	8.2	7.9
-20°	22.6	14.1	11.2	10.6	9.6	8.2	7.9



REPORT NUMBER: P731719 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680N-57-80-2S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	23.4	14.1	11.3	10.7	9.6	8.2	7.9
-25°	23.8	14.3	11.5	10.7	9.6	8.3	7.9
-27.5°	23.6	14.5	11.7	10.7	9.6	8.3	7.9
-30°	22.8	14.6	11.8	10.7	9.5	8.3	7.9
-32.5°	21.5	14.6	12.1	10.7	9.5	8.3	7.9
-35°	20.9	14.4	12.2	10.6	9.5	8.3	7.9
-37.5°	20.7	14.4	12.4	10.5	9.5	8.4	7.9
-40°	20.3	14.5	12.4	10.4	9.5	8.4	7.9
-42.5°	19.8	14.6	12.4	10.2	9.5	8.4	7.9
-45°	19.0	14.5	12.2	10.1	9.5	8.4	7.9
-47.5°	18.1	14.4	12.0	10.0	9.5	8.4	7.9
-50°	17.6	14.2	11.8	9.9	9.5	8.4	7.9
-52.5°	17.1	13.8	11.5	10.0	9.5	8.4	7.9
-55°	16.5	13.4	11.2	10.0	9.5	8.3	7.9
-57.5°	15.7	13.0	10.9	10.0	9.5	8.3	7.9
-60°	14.9	12.5	10.5	9.9	9.5	8.3	7.9
-62.5°	14.2	12.0	10.5	9.9	9.5	8.3	7.9
-65°	13.4	11.4	10.4	9.9	9.4	8.3	7.9
-67.5°	12.6	11.0	10.2	9.9	9.2	8.2	7.9
-70°	11.7	10.7	10.1	9.8	9.1	8.2	7.9
-72.5°	11.3	10.5	10.0	9.7	9.0	8.2	7.9
-75°	10.8	10.2	9.8	9.5	8.8	8.1	7.9
-77.5°	10.3	9.9	9.7	9.3	8.7	8.1	7.9
-80°	9.9	9.7	9.5	9.1	8.5	8.1	7.9
-82.5°	9.8	9.6	9.3	8.9	8.4	8.0	7.9
-85°	9.8	9.5	9.2	8.7	8.2	8.0	7.9
-87.5°	9.8	9.4	9.0	8.6	8.1	7.9	7.9
-90°	7.9	7.9	7.9	7.9	7.9	7.9	7.9

(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

