

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: P731310 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-2S-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731310 (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-08-0320N-40-70-2S-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 2S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

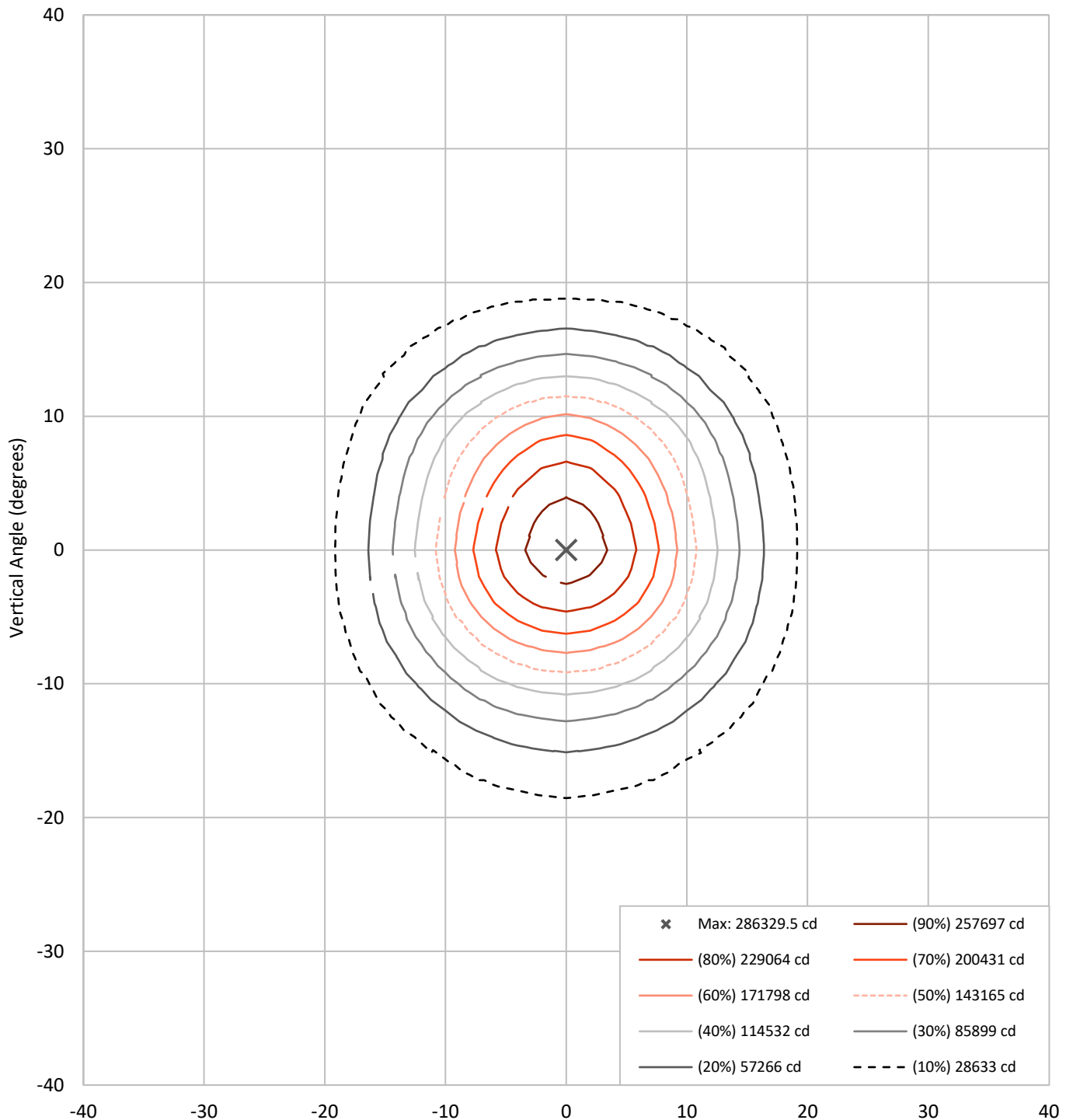
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	46299.7 lumens	Max Intensity:	286329.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	132.9 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:	21499.5 lumens	Field Lumens:	39140.8 lumens
Beam Efficiency:	46.4%	Field Efficiency:	84.5%

Input Watts (W): 348.5
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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CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV1

Iso-Candela Plot





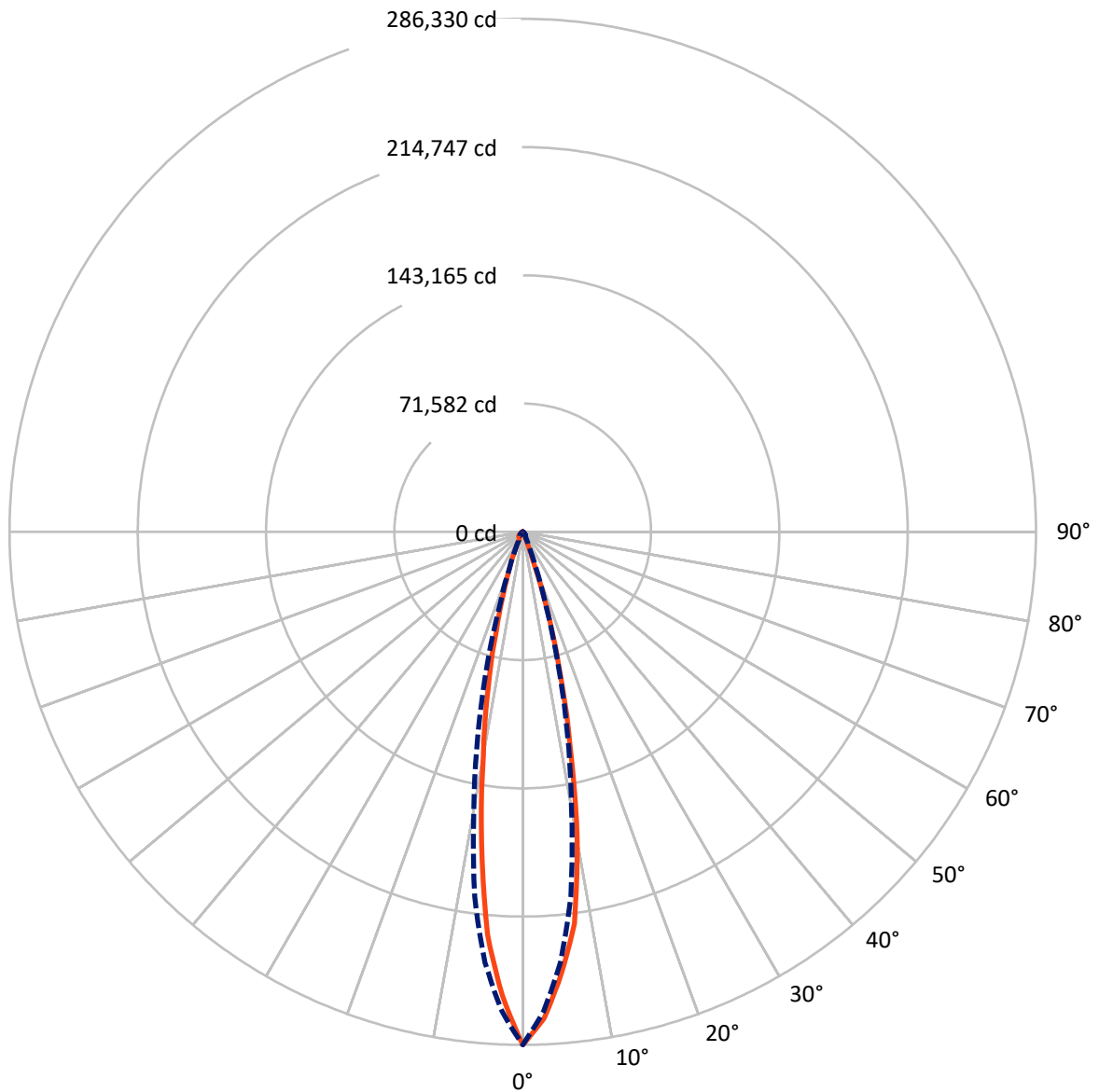
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Lumen Table

90	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1					
80	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1					
70	0.1	0.0	0.1	0.4	0.4	0.3	0.2	0.1	0.1	0.2	0.3	0.4	0.4	0.1	0.0	0.1
60		0.1	0.2	0.4	0.3	0.2	0.1	0.2	0.2	0.1	0.2	0.3	0.4	0.2	0.1	
50	0.1	0.1	0.3	0.3	0.4	0.6	1.1	0.7	0.7	1.1	0.6	0.4	0.3	0.3	0.1	0.1
40		0.2	0.6	1.6	3.1	4.5	6.2	7.4	7.4	6.2	4.5	3.1	1.6	0.6	0.2	
30	0.2	0.3	2.9	9.3	22.2	33.6	58.2	110.3	110.3	58.2	33.6	22.2	9.3	2.9	0.3	0.2
20		0.9	6.2	24.7	56.7	106.0	692.7	2146.5	2146.5	692.7	106.0	56.7	24.7	6.2	0.9	
10	0.2	1.3	8.1	33.2	67.4	212.5	2036.0	6101.8	6101.8	2036.0	212.5	67.4	33.2	8.1	1.3	0.2
0		1.7	8.6	33.3	67.2	202.5	1914.9	5549.5	5549.5	1914.9	202.5	67.2	33.3	8.6	1.7	
-10	0.4	2.0	8.3	26.7	56.8	98.5	563.3	1631.1	1631.1	563.3	98.5	56.8	26.7	8.3	2.0	0.4
-20		2.0	7.8	18.9	50.9	76.0	115.5	223.3	223.3	115.5	76.0	50.9	18.9	7.8	2.0	
-30	0.3	1.8	6.7	14.2	35.5	73.8	95.9	107.2	107.2	95.9	73.8	35.5	14.2	6.7	1.8	0.3
-40		1.3	5.0	11.7	21.0	35.6	60.8	81.1	81.1	60.8	35.6	21.0	11.7	5.0	1.3	
-50	0.2	0.6	3.0	7.7	15.0	22.7	29.5	33.4	33.4	29.5	22.7	15.0	7.7	3.0	0.6	0.2
-60		0.3	1.0	3.1	6.6	10.6	14.5	16.8	16.8	14.5	10.6	6.6	3.1	1.0	0.3	
-70	0.1	0.7	2.2	5.2	7.0	5.2	2.2	0.7	0.1						0.1	
-80		0.1	0.7	2.2	5.2	7.0	5.2	2.2	0.7	0.1						
-90	0.1	0.7	2.2	5.2	7.0	5.2	2.2	0.7	0.1							

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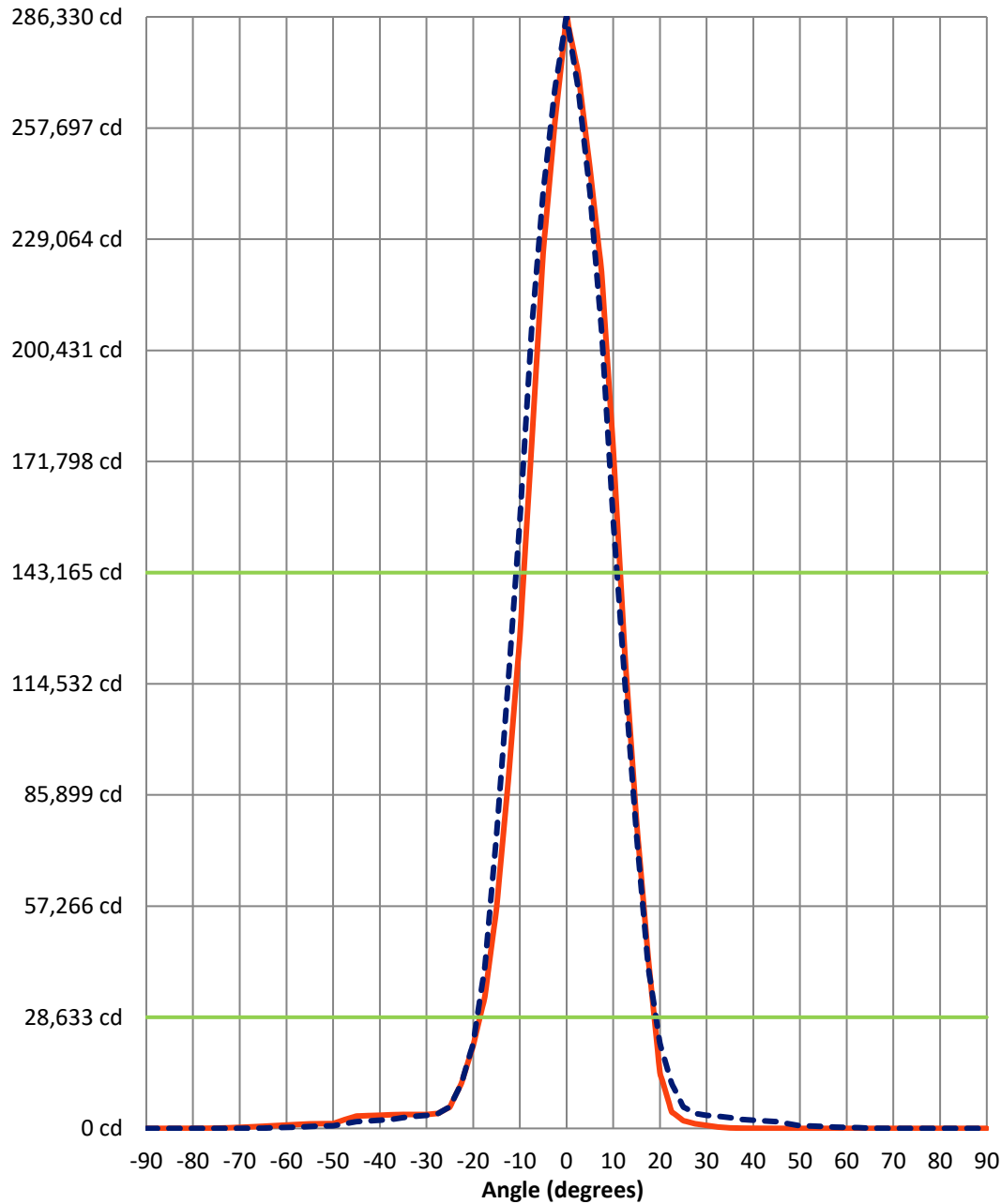
Luminous Intensity Polar Plot



— 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: 21499.5
Efficiency: 46.4%

Field:
H Angle: 38.3°
V Angle: 37.3°
Lumens: 39140.8
Efficiency: 84.5%

Spill:
Lumens: 7159
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°	3.4	4.0	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.5	6.8
87.5°	3.4	3.4	3.4	3.2	2.9	2.8	2.6	2.5	2.5	2.4	2.3
85°	3.4	3.4	3.4	3.2	3.0	2.9	2.9	2.8	2.7	2.5	2.3
82.5°	3.4	3.5	3.4	3.2	3.1	3.1	3.2	3.1	2.9	2.7	2.6
80°	3.4	3.5	3.4	3.3	3.2	3.3	3.4	3.2	3.1	3.0	3.1
77.5°	3.4	3.5	3.4	3.3	3.3	3.4	3.4	3.3	3.2	3.3	3.4
75°	3.4	3.5	3.4	3.3	3.4	3.5	3.4	3.4	3.4	3.4	3.4
72.5°	3.4	3.6	3.4	3.4	3.5	3.6	3.5	3.4	3.4	3.4	3.4
70°	3.4	3.6	3.4	3.4	3.6	3.6	3.5	3.4	3.4	3.4	3.4
67.5°	3.4	3.6	3.5	3.5	3.7	3.7	3.5	3.4	3.4	3.6	3.5
65°	3.4	3.7	3.5	3.6	3.8	3.8	3.5	3.4	3.6	3.8	3.6
62.5°	3.4	3.7	3.5	3.8	4.0	3.8	3.6	3.6	3.9	3.9	3.7
60°	3.4	3.7	3.5	3.9	4.1	3.9	3.6	3.9	4.2	4.0	3.7
57.5°	3.4	3.7	3.6	4.0	4.1	3.9	3.9	4.2	4.3	4.0	4.1
55°	3.4	3.8	3.7	4.1	4.1	3.9	4.2	4.5	4.3	4.2	4.5
52.5°	3.4	3.8	3.8	4.2	4.2	4.0	4.4	4.6	4.4	4.6	5.0
50°	3.4	3.8	3.9	4.3	4.2	4.2	4.7	4.7	4.5	5.0	6.2
47.5°	3.4	3.9	4.0	4.4	4.2	4.4	5.0	4.7	4.9	5.5	7.2
45°	3.4	3.9	4.0	4.5	4.3	4.7	5.0	4.8	5.3	6.2	8.2
42.5°	3.4	3.9	4.1	4.5	4.3	4.9	5.1	5.0	5.8	6.9	9.4
40°	3.4	4.0	4.2	4.5	4.4	5.1	5.1	5.4	6.3	7.5	10.6
37.5°	3.4	4.0	4.2	4.5	4.6	5.3	5.2	5.8	6.9	8.4	11.8
35°	3.4	4.0	4.3	4.6	4.7	5.4	5.3	6.2	7.5	9.8	12.9
32.5°	3.4	4.1	4.3	4.6	4.9	5.5	5.4	6.7	8.1	11.2	14.2
30°	3.4	4.1	4.4	4.7	5.0	5.5	5.7	7.1	8.7	12.6	15.7
27.5°	3.4	4.2	4.4	4.7	5.2	5.6	6.1	7.6	9.5	14.0	17.3
25°	3.4	4.2	4.4	4.8	5.3	5.7	6.4	8.1	10.7	15.4	19.0
22.5°	3.4	4.2	4.4	4.9	5.4	5.7	6.7	8.5	11.8	16.7	22.1
20°	3.4	4.3	4.5	5.0	5.5	5.8	7.0	8.9	12.9	18.1	25.6
17.5°	3.4	4.3	4.5	5.1	5.6	5.9	7.4	9.3	13.9	19.5	29.4
15°	3.4	4.3	4.5	5.2	5.6	6.0	7.7	9.7	14.9	20.8	33.4
12.5°	3.4	4.4	4.5	5.3	5.6	6.1	8.0	10.1	15.8	22.2	37.5
10°	3.4	4.4	4.5	5.3	5.7	6.3	8.3	10.4	16.4	23.9	41.8
7.5°	3.4	4.4	4.5	5.4	5.7	6.4	8.5	10.6	17.0	25.7	46.0
5°	3.4	4.4	4.5	5.5	5.7	6.5	8.7	10.9	17.5	27.4	49.9
2.5°	3.4	4.5	4.5	5.6	5.7	6.7	8.9	11.1	17.8	29.1	53.5
0°	3.4	4.5	4.5	5.7	5.7	6.8	9.1	11.3	18.1	30.6	56.7
-2.5°	3.4	4.5	4.6	5.8	5.9	7.2	10.0	14.0	23.6	40.3	70.7
-5°	3.4	4.5	4.6	5.8	6.1	7.5	10.8	16.5	28.9	49.6	83.9
-7.5°	3.4	4.6	4.7	5.9	6.3	7.9	11.6	18.9	33.8	58.2	96.1
-10°	3.4	4.6	4.7	5.9	6.4	8.2	12.3	21.0	38.2	66.0	107.1
-12.5°	3.4	4.6	4.8	6.0	6.6	8.5	13.0	22.8	42.0	72.7	116.5
-15°	3.4	4.6	4.8	6.0	6.8	8.7	13.5	24.3	45.7	78.4	124.1
-17.5°	3.4	4.6	4.9	6.0	6.9	8.9	13.8	26.0	49.3	83.1	129.9
-20°	3.4	4.6	4.9	6.1	7.0	9.1	14.3	27.6	52.1	86.8	133.6



REPORT NUMBER: P731310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV1

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.4	4.6	5.0	6.1	7.1	9.2	14.8	28.6	53.8	89.5	135.2
-25°	3.4	4.6	5.0	6.1	7.2	9.4	15.0	28.9	54.5	91.0	134.5
-27.5°	3.4	4.7	5.1	6.1	7.3	9.5	14.9	28.4	54.0	91.5	135.5
-30°	3.4	4.6	5.1	6.1	7.3	9.5	14.4	27.1	53.2	90.8	135.2
-32.5°	3.4	4.6	5.1	6.1	7.4	9.5	13.6	26.2	51.6	88.6	133.3
-35°	3.4	4.6	5.2	6.0	7.5	9.4	13.2	25.2	48.9	84.6	130.0
-37.5°	3.4	4.6	5.2	6.0	7.5	9.4	13.1	23.7	44.9	79.1	122.0
-40°	3.4	4.6	5.3	6.0	7.5	9.4	12.9	21.5	39.7	73.1	112.0
-42.5°	3.4	4.6	5.3	6.0	7.5	9.4	12.5	18.8	35.6	64.7	100.5
-45°	3.4	4.6	5.3	5.9	7.5	9.4	12.1	16.7	31.7	55.2	87.8
-47.5°	3.4	4.6	5.4	5.9	7.5	9.3	11.5	16.0	27.1	44.7	75.7
-50°	3.4	4.6	5.4	5.9	7.4	9.2	11.3	15.2	21.5	38.3	62.5
-52.5°	3.4	4.5	5.5	6.0	7.3	9.1	11.2	14.2	18.9	31.2	48.8
-55°	3.4	4.5	5.5	6.0	7.2	8.9	10.9	13.2	17.5	23.7	40.0
-57.5°	3.4	4.5	5.5	6.0	7.1	8.8	10.7	12.9	16.0	20.5	30.6
-60°	3.4	4.4	5.5	6.0	6.9	8.5	10.4	12.5	14.6	18.5	23.2
-62.5°	3.4	4.4	5.5	6.0	6.9	8.3	10.1	12.0	13.9	16.4	20.7
-65°	3.4	4.4	5.4	6.0	6.8	8.0	9.7	11.4	13.3	15.3	18.0
-67.5°	3.4	4.3	5.3	6.0	6.7	7.8	9.3	10.9	12.5	14.4	16.4
-70°	3.4	4.3	5.2	5.9	6.6	7.5	8.9	10.3	11.8	13.5	15.3
-72.5°	3.4	4.3	5.2	5.8	6.4	7.2	8.4	9.7	11.0	12.5	14.1
-75°	3.4	4.2	5.1	5.7	6.2	6.9	7.9	9.0	10.1	11.4	12.8
-77.5°	3.4	4.2	5.0	5.5	6.1	6.6	7.4	8.4	9.4	10.4	11.5
-80°	3.4	4.1	4.9	5.4	5.9	6.3	6.8	7.8	8.7	9.6	10.5
-82.5°	3.4	4.1	4.8	5.3	5.7	6.1	6.5	7.2	8.0	8.8	9.6
-85°	3.4	4.0	4.7	5.1	5.5	5.9	6.3	6.8	7.4	8.0	8.7
-87.5°	3.4	4.0	4.6	5.0	5.3	5.6	6.0	6.4	6.8	7.3	7.8
-90°	3.4	3.4	3.4	3.1	2.9	2.6	2.3	2.3	2.3	2.3	2.3



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	6.8	6.8	6.8	6.8	7.1	7.4	7.6	7.9	8.2	8.5	8.8
87.5°	2.1	2.0	1.9	1.8	1.6	1.5	1.3	1.1	1.1	1.1	1.1
85°	2.3	2.3	2.3	2.3	2.0	1.7	1.4	1.1	1.1	1.1	1.1
82.5°	2.6	2.6	2.5	2.3	2.0	1.7	1.4	1.3	1.3	1.3	1.2
80°	3.0	2.9	2.6	2.3	2.2	2.1	2.0	2.1	2.0	1.8	1.6
77.5°	3.2	2.9	2.6	2.4	2.3	2.5	2.7	2.9	2.8	2.7	2.6
75°	3.2	2.9	2.8	2.8	3.0	3.2	3.4	3.4	3.3	3.2	3.2
72.5°	3.3	3.2	3.2	3.4	3.4	3.4	3.4	3.4	4.3	5.6	6.4
70°	3.4	3.4	3.4	3.4	3.4	3.7	5.3	7.5	9.8	11.1	12.2
67.5°	3.4	3.4	3.4	3.5	4.4	6.1	8.6	13.5	18.7	20.0	19.8
65°	3.4	3.4	3.8	4.6	5.6	9.8	15.1	21.2	25.7	25.1	23.4
62.5°	3.4	3.9	4.6	6.3	9.7	14.6	19.5	23.9	28.3	27.5	23.7
60°	3.9	4.4	6.3	9.7	13.4	17.0	21.5	24.4	27.3	28.0	21.4
57.5°	4.4	5.8	8.9	12.4	15.5	18.2	19.9	22.4	23.4	22.7	16.7
55°	5.3	7.7	11.1	14.4	16.6	15.9	17.0	17.7	17.4	16.1	11.8
52.5°	6.9	9.5	12.8	15.5	15.8	14.3	13.4	13.5	12.5	10.6	9.2
50°	8.4	11.2	14.3	15.8	15.1	12.8	10.7	10.4	9.7	8.7	7.9
47.5°	9.8	12.9	15.4	16.2	14.0	12.0	9.9	9.2	8.7	8.9	8.4
45°	11.4	14.3	16.7	15.3	13.4	11.8	10.9	9.1	10.2	10.9	11.3
42.5°	12.8	15.4	16.4	14.6	13.5	13.5	13.4	13.0	13.5	16.3	18.0
40°	13.9	16.5	16.4	16.0	14.8	17.1	19.2	20.8	21.0	24.6	27.5
37.5°	14.8	16.9	17.8	20.1	19.1	23.2	26.7	40.9	41.5	34.3	46.5
35°	15.7	17.8	23.5	29.9	32.5	31.6	51.6	70.2	74.8	67.3	79.9
32.5°	16.7	19.1	31.1	46.2	59.9	60.8	83.7	113.4	129.0	134.3	141.2
30°	18.4	26.2	42.9	66.7	99.6	126.5	137.4	169.3	198.1	255.8	296.1
27.5°	21.7	35.4	62.6	103.4	153.8	204.6	221.9	244.2	319.6	421.8	522.9
25°	25.7	55.0	85.1	152.0	229.1	285.4	307.5	337.4	480.0	677.5	793.6
22.5°	35.9	80.2	119.1	207.9	312.5	364.1	393.0	500.5	718.6	980.8	1098.5
20°	54.3	110.2	160.4	254.7	396.3	442.2	474.7	698.2	1015.7	1264.9	1449.4
17.5°	75.6	140.3	201.5	303.9	432.5	501.7	569.6	916.5	1327.1	1546.1	1763.5
15°	99.0	170.2	237.2	347.8	465.3	537.4	715.5	1163.5	1608.6	1822.3	2039.1
12.5°	123.9	199.7	267.7	386.3	497.8	570.7	848.1	1339.7	1759.0	2040.1	2300.2
10°	149.2	228.4	293.8	419.5	529.2	601.5	972.1	1489.3	1838.7	2088.8	2383.5
7.5°	166.3	247.2	314.1	447.6	559.0	629.8	1084.5	1612.8	1892.9	2113.3	2375.1
5°	179.9	254.3	321.9	467.6	583.5	652.1	1173.0	1710.4	1925.7	2117.0	2331.2
2.5°	190.6	259.1	328.0	483.2	603.1	666.4	1202.3	1740.5	1932.3	2116.9	2310.1
0°	198.4	261.9	332.2	494.3	619.0	678.0	1208.6	1747.1	1927.4	2112.2	2318.6
-2.5°	205.4	269.9	345.2	503.8	619.7	679.3	1202.6	1739.4	1949.2	2163.3	2409.8
-5°	209.7	276.4	355.9	508.6	617.3	678.5	1175.3	1708.4	1946.9	2164.2	2424.8
-7.5°	211.8	281.3	363.8	508.0	608.8	669.3	1102.6	1609.2	1870.4	2075.1	2348.3
-10°	212.5	287.3	369.0	497.2	592.8	653.9	1008.8	1491.4	1785.8	1977.5	2242.7
-12.5°	214.4	294.2	372.3	485.1	577.1	636.3	902.8	1357.6	1694.0	1872.9	2122.0
-15°	214.3	299.5	374.0	472.5	562.4	616.7	787.0	1210.0	1625.8	1853.0	2056.6
-17.5°	212.3	303.3	374.1	460.5	549.6	595.0	667.8	1079.6	1569.4	1844.9	2042.4
-20°	208.6	305.4	373.0	449.8	537.8	585.8	645.1	953.3	1419.4	1815.8	2036.7



REPORT NUMBER: P731310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	203.4	306.0	371.7	444.4	528.5	588.7	639.6	814.8	1221.1	1767.6	1998.8
-25°	200.5	297.1	370.2	438.1	518.7	592.3	633.9	687.1	1025.3	1525.0	1909.8
-27.5°	199.0	286.7	361.8	427.6	506.1	591.4	634.4	679.5	859.7	1248.0	1772.3
-30°	194.3	269.6	350.3	413.9	491.2	574.7	638.6	673.9	724.5	1025.7	1453.6
-32.5°	184.6	251.7	331.5	399.0	471.8	555.2	634.2	673.8	716.9	806.3	1151.6
-35°	174.3	237.6	309.9	380.5	447.9	528.9	606.2	672.3	709.7	755.9	910.2
-37.5°	166.2	221.7	287.8	357.8	424.3	497.2	575.1	648.1	704.0	750.6	809.4
-40°	156.0	204.2	267.6	333.3	398.3	465.7	538.5	612.1	682.6	753.3	807.0
-42.5°	143.6	190.5	246.6	308.3	370.6	435.3	500.4	571.3	653.6	742.7	811.5
-45°	129.0	174.6	224.6	281.7	340.3	402.5	465.5	529.5	616.3	707.8	794.1
-47.5°	112.5	156.3	203.9	253.2	308.4	366.4	427.7	494.7	570.9	658.2	752.2
-50°	95.1	135.7	180.2	225.9	275.2	328.8	385.4	453.2	524.8	601.3	686.1
-52.5°	78.7	113.2	154.3	197.9	242.6	290.6	343.7	404.3	471.4	542.7	614.0
-55°	61.0	91.9	126.3	167.1	210.0	253.1	299.5	353.3	411.7	476.7	540.6
-57.5°	47.3	69.9	99.5	133.6	173.6	215.4	256.5	300.2	351.3	406.7	460.6
-60°	35.8	51.4	73.2	102.0	134.1	171.7	211.2	250.9	292.1	333.3	379.2
-62.5°	25.4	37.4	51.8	70.9	98.3	126.4	159.3	195.9	234.7	270.1	303.9
-65°	22.2	25.7	35.6	49.0	63.1	86.3	111.3	136.9	169.0	200.6	232.9
-67.5°	18.8	22.1	25.3	30.4	42.5	54.7	66.8	88.5	110.8	131.0	152.6
-70°	17.1	18.7	21.3	24.2	27.0	32.0	42.6	53.0	63.2	75.2	92.3
-72.5°	15.6	16.9	18.4	20.0	22.4	24.9	27.3	29.6	35.6	43.9	51.7
-75°	14.0	15.1	16.3	17.6	19.0	20.5	22.1	24.2	26.1	28.0	29.8
-77.5°	12.5	13.5	14.4	15.3	16.2	17.4	18.6	19.9	21.0	22.0	23.2
-80°	11.2	11.8	12.6	13.4	14.1	14.7	15.4	16.2	16.8	17.4	18.1
-82.5°	10.0	10.5	11.0	11.5	11.9	12.3	12.6	13.0	13.6	14.2	14.7
-85°	8.9	9.1	9.3	9.6	10.0	10.5	10.8	11.1	11.4	11.7	12.0
-87.5°	7.9	7.9	8.0	8.1	8.5	8.8	9.2	9.5	9.7	9.8	9.9
-90°	2.0	1.7	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



REPORT NUMBER: P731310 (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°	9.1	9.1	9.1	9.1	9.1	9.4	9.7	9.9	10.2	10.2	10.2
87.5°	1.1	1.1	1.0	1.0	1.0	0.8	0.5	0.3	0.0	0.0	0.0
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.5	1.4	1.4	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	2.5	2.3	2.0	1.6	1.2	1.1	1.1	1.1	1.1	1.1	1.1
75°	3.3	3.2	3.1	2.8	2.3	2.2	2.2	2.2	2.1	2.1	2.2
72.5°	6.9	6.8	6.4	5.9	5.1	4.7	4.6	4.4	4.1	3.9	3.8
70°	12.5	12.1	11.4	10.1	8.4	7.3	6.6	5.8	4.9	4.5	4.4
67.5°	18.0	16.2	14.6	12.9	10.6	8.7	7.7	6.7	5.8	5.3	5.1
65°	20.8	16.6	13.9	11.7	10.1	8.5	7.3	6.3	5.3	4.8	4.6
62.5°	19.2	13.9	11.0	9.2	7.7	6.7	5.9	5.1	4.3	3.8	3.9
60°	15.6	10.7	8.2	7.2	6.4	5.8	5.0	4.3	3.8	3.5	3.8
57.5°	12.0	8.6	6.7	6.3	5.7	4.9	4.3	4.2	4.1	4.1	4.3
55°	8.9	7.5	6.8	6.0	5.3	4.8	4.5	4.7	4.7	4.5	4.5
52.5°	7.6	7.0	6.2	5.5	5.4	5.4	5.6	5.4	5.2	5.2	5.4
50°	7.4	6.8	6.3	5.7	5.9	5.9	5.7	5.9	6.3	6.4	6.5
47.5°	8.0	7.6	8.0	6.7	7.0	7.8	7.9	8.0	9.0	9.5	9.6
45°	10.6	12.9	12.9	11.9	11.5	16.5	16.9	14.1	23.0	22.1	15.5
42.5°	19.6	20.8	20.8	26.1	35.2	40.1	53.2	74.1	69.4	53.8	32.5
40°	32.4	30.8	37.5	48.1	58.8	71.4	89.4	124.8	118.8	95.1	104.5
37.5°	55.8	55.9	59.1	73.9	78.0	67.1	95.4	92.2	73.5	103.3	109.3
35°	102.1	112.4	95.4	118.3	121.4	111.6	117.1	129.4	111.9	133.9	143.4
32.5°	183.4	202.3	204.9	210.5	227.3	240.3	236.6	266.8	268.4	296.9	335.9
30°	293.2	332.5	373.2	379.6	400.6	434.7	451.9	512.7	577.2	619.4	696.8
27.5°	515.3	525.0	606.9	671.4	645.7	696.8	824.8	899.0	1022.2	1095.6	1173.6
25°	827.7	854.3	969.7	1088.6	1104.4	1151.1	1337.1	1443.3	1570.2	1644.3	1805.2
22.5°	1224.0	1339.2	1466.2	1622.5	1686.6	1796.4	1977.2	2132.9	2397.3	2724.5	3429.4
20°	1665.5	1838.7	2009.4	2146.7	2278.9	2453.5	2673.5	3424.8	4315.0	6997.2	8847.8
17.5°	2043.3	2327.0	2490.1	2623.0	2789.0	3125.9	3999.1	6213.0	10482.4	16454.0	21920.2
15°	2337.1	2602.0	2864.4	3031.0	3290.4	4036.0	5812.9	11242.5	20089.2	30169.7	42368.0
12.5°	2570.1	2790.0	3010.4	3255.6	3734.9	5188.0	9708.6	18093.6	30958.3	47252.9	68878.4
10°	2695.9	2915.9	3128.6	3477.7	4364.9	7011.0	13346.3	24404.2	44595.3	70043.7	97604.0
7.5°	2695.0	2963.2	3226.3	3652.1	5007.0	9189.4	17631.5	32595.1	56477.6	88382.7	123864.0
5°	2693.5	3018.1	3293.6	3774.2	5408.6	10675.9	20291.4	37131.2	66152.7	102157.7	140149.6
2.5°	2719.6	3076.9	3337.2	3854.6	5594.7	11473.6	21766.8	40714.1	72916.9	109998.3	150595.5
0°	2781.1	3129.2	3362.8	3862.7	5572.5	11638.1	21938.4	41580.9	75520.2	114915.8	156575.5
-2.5°	2882.8	3121.7	3348.3	3830.1	5498.2	11298.6	21537.6	40824.8	72503.7	109443.7	149762.6
-5°	2821.6	3014.5	3215.0	3648.4	5133.5	10108.6	19400.6	36531.5	63588.8	96761.1	131299.9
-7.5°	2664.4	2859.9	3045.6	3419.4	4607.9	8341.9	15869.9	29346.6	50480.2	76314.6	103442.5
-10°	2521.2	2696.4	2871.3	3170.3	3937.2	6118.5	11356.2	20769.1	36856.3	56331.0	77062.3
-12.5°	2410.8	2558.1	2692.7	2893.2	3319.6	4537.9	8261.8	15247.9	24749.7	37148.3	52320.6
-15°	2313.8	2428.2	2527.3	2720.2	3037.1	3673.6	5148.0	9139.1	15059.7	22872.1	31156.6
-17.5°	2223.9	2333.7	2450.7	2597.7	2797.2	3102.8	3949.8	5628.6	9044.2	14147.5	19033.4
-20°	2178.0	2312.3	2412.9	2527.9	2697.3	2932.0	3229.7	4062.5	5470.3	8606.7	11783.5



REPORT NUMBER: P731310 (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°
-22.5°	2141.8	2269.9	2384.6	2518.0	2692.0	2877.3	3037.9	3292.3	3956.5	4941.5	6581.5
-25°	2097.7	2224.0	2393.6	2587.8	2737.2	2877.4	2958.9	3011.9	3296.9	3578.5	4206.3
-27.5°	2013.9	2214.1	2463.3	2672.9	2833.7	2920.6	2986.3	3029.2	3200.1	3368.0	3550.7
-30°	1939.0	2245.9	2515.0	2758.7	2898.7	3004.9	3090.5	3167.9	3286.0	3428.2	3494.6
-32.5°	1673.3	2237.3	2536.6	2760.9	2904.7	3030.1	3162.0	3233.6	3337.6	3441.7	3525.7
-35°	1314.3	1887.4	2513.2	2641.7	2784.5	2947.9	3106.3	3208.2	3314.1	3421.3	3520.2
-37.5°	984.5	1413.2	1920.7	2384.8	2576.4	2743.7	2938.2	3095.1	3233.7	3350.6	3463.2
-40°	863.0	979.2	1352.6	1721.2	2112.8	2472.1	2664.3	2874.3	3082.9	3227.3	3355.9
-42.5°	861.7	906.2	944.3	1191.4	1492.6	1801.7	2128.7	2433.4	2772.8	3010.6	3191.1
-45°	867.2	901.8	937.4	973.2	1006.0	1233.4	1471.8	1713.6	2067.8	2419.3	2723.2
-47.5°	825.9	892.8	935.3	969.7	1002.2	1034.1	1065.3	1130.4	1356.8	1596.5	1815.5
-50°	760.4	829.4	892.7	956.3	993.6	1025.1	1059.1	1096.3	1132.5	1169.3	1193.8
-52.5°	680.1	748.0	813.9	874.3	928.5	981.9	1035.3	1078.6	1117.2	1154.9	1173.7
-55°	603.3	664.4	724.5	777.5	830.5	883.2	936.3	989.0	1041.4	1092.9	1119.2
-57.5°	518.1	577.5	634.0	678.6	723.6	768.5	816.7	866.3	914.1	957.9	981.0
-60°	427.7	478.6	527.0	570.3	612.4	653.0	693.8	735.2	775.7	811.3	832.2
-62.5°	337.8	377.0	417.4	455.2	491.1	525.6	562.9	598.5	632.2	660.5	680.3
-65°	264.4	293.7	319.6	345.8	372.4	402.8	433.5	462.6	489.8	512.3	529.1
-67.5°	179.6	206.5	230.2	252.4	272.8	293.5	315.6	336.8	356.8	373.4	386.5
-70°	108.6	123.8	137.3	152.3	170.0	187.5	204.9	221.0	235.7	247.7	257.3
-72.5°	59.0	65.4	72.3	83.1	93.0	102.9	112.7	121.7	129.8	137.0	143.3
-75°	31.8	34.5	39.5	44.0	47.9	51.9	55.8	59.4	62.6	65.2	67.4
-77.5°	24.5	25.8	27.1	28.1	29.1	29.9	30.8	31.6	32.4	33.2	33.8
-80°	18.8	19.7	20.6	21.5	22.3	22.9	23.4	23.8	24.1	24.6	25.1
-82.5°	15.1	15.5	15.9	16.4	16.8	17.3	17.8	18.2	18.7	18.9	19.0
-85°	12.4	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.4	13.5	13.5
-87.5°	10.0	10.0	10.1	10.1	10.1	10.4	10.7	11.0	11.3	11.3	11.3
-90°	1.1	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731310 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	9.9
87.5°	0.0	0.0	0.5	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.3
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	2.2	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.2
72.5°	3.6	3.4	3.4	3.4	3.4	3.4	3.6	3.8	3.9	4.1	4.4
70°	4.4	4.5	4.5	4.5	4.5	4.5	4.4	4.4	4.5	4.9	5.8
67.5°	4.8	4.5	4.0	3.4	4.0	4.5	4.8	5.1	5.3	5.8	6.7
65°	4.5	4.5	4.0	3.4	4.0	4.5	4.5	4.6	4.8	5.3	6.3
62.5°	4.2	4.4	4.0	3.4	4.0	4.4	4.2	3.9	3.8	4.3	5.1
60°	4.1	4.4	4.5	4.5	4.5	4.4	4.1	3.8	3.5	3.8	4.3
57.5°	4.4	4.5	4.5	4.5	4.5	4.5	4.4	4.3	4.1	4.1	4.2
55°	4.5	4.5	5.0	5.7	5.0	4.5	4.5	4.5	4.5	4.7	4.7
52.5°	5.5	5.6	5.7	5.7	5.7	5.6	5.5	5.4	5.2	5.2	5.4
50°	6.6	6.7	6.8	6.8	6.8	6.7	6.6	6.5	6.4	6.3	5.9
47.5°	9.6	9.3	9.1	9.1	9.1	9.3	9.6	9.6	9.5	9.0	8.0
45°	15.8	15.8	15.8	15.9	15.8	15.8	15.8	15.5	22.1	23.0	14.1
42.5°	31.7	28.6	26.1	27.2	26.1	28.6	31.7	32.5	53.8	69.4	74.1
40°	93.3	64.1	37.1	37.4	37.1	64.1	93.3	104.5	95.1	118.8	124.8
37.5°	87.1	70.3	63.4	62.4	63.4	70.3	87.1	109.3	103.3	73.5	92.2
35°	143.9	143.0	136.7	136.1	136.7	143.0	143.9	143.4	133.9	111.9	129.4
32.5°	351.0	365.4	360.7	354.9	360.7	365.4	351.0	335.9	296.9	268.4	266.8
30°	733.6	765.6	759.1	776.6	759.1	765.6	733.6	696.8	619.4	577.2	512.7
27.5°	1216.8	1237.7	1216.1	1209.7	1216.1	1237.7	1216.8	1173.6	1095.6	1022.2	899.0
25°	1915.1	1955.7	1974.3	2012.4	1974.3	1955.7	1915.1	1805.2	1644.3	1570.2	1443.3
22.5°	4305.9	4556.8	4427.9	4312.9	4427.9	4556.8	4305.9	3429.4	2724.5	2397.3	2132.9
20°	12636.5	14868.3	14703.8	14410.2	14703.8	14868.3	12636.5	8847.8	6997.2	4315.0	3424.8
17.5°	30470.3	37326.9	41596.9	43843.9	41596.9	37326.9	30470.3	21920.2	16454.0	10482.4	6213.0
15°	56844.8	68377.6	75149.1	78989.6	75149.1	68377.6	56844.8	42368.0	30169.7	20089.2	11242.5
12.5°	89668.8	107744.9	119736.7	122029.1	119736.7	107744.9	89668.8	68878.4	47252.9	30958.3	18093.6
10°	125812.5	148963.8	168057.2	175020.8	168057.2	148963.8	125812.5	97604.0	70043.7	44595.3	24404.2
7.5°	156680.4	186224.1	211577.4	220594.9	211577.4	186224.1	156680.4	123864.0	88382.7	56477.6	32595.1
5°	179126.2	218317.1	241266.1	247458.3	241266.1	218317.1	179126.2	140149.6	102157.7	66152.7	37131.2
2.5°	197397.3	234599.0	259203.5	271889.3	259203.5	234599.0	197397.3	150595.5	109998.3	72916.9	40714.1
0°	205430.7	241181.8	267717.6	286329.5	267717.6	241181.8	205430.7	156575.5	114915.8	75520.2	41580.9
-2.5°	195558.2	232118.7	250995.0	259152.6	250995.0	232118.7	195558.2	149762.6	109443.7	72503.7	40824.8
-5°	166265.4	200730.2	219702.2	225729.6	219702.2	200730.2	166265.4	131299.9	96761.1	63588.8	36531.5
-7.5°	129693.9	153571.2	169939.6	175644.4	169939.6	153571.2	129693.9	103442.5	76314.6	50480.2	29346.6
-10°	97656.7	114780.8	123552.4	126517.1	123552.4	114780.8	97656.7	77062.3	56331.0	36856.3	20769.1
-12.5°	67056.4	79947.5	85617.5	89342.5	85617.5	79947.5	67056.4	52320.6	37148.3	24749.7	15247.9
-15°	41248.2	49652.2	54116.9	56665.7	54116.9	49652.2	41248.2	31156.6	22872.1	15059.7	9139.1
-17.5°	25060.4	29628.7	32587.5	33928.0	32587.5	29628.7	25060.4	19033.4	14147.5	9044.2	5628.6
-20°	15558.1	18599.8	20327.4	21318.2	20327.4	18599.8	15558.1	11783.5	8606.7	5470.3	4062.5



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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°	8740.1	10409.0	11344.8	11671.0	11344.8	10409.0	8740.1	6581.5	4941.5	3956.5	3292.3
-25°	4860.3	5285.1	5471.0	5514.6	5471.0	5285.1	4860.3	4206.3	3578.5	3296.9	3011.9
-27.5°	3709.1	3799.6	3857.0	3874.1	3857.0	3799.6	3709.1	3550.7	3368.0	3200.1	3029.2
-30°	3557.8	3567.3	3583.0	3580.4	3583.0	3567.3	3557.8	3494.6	3428.2	3286.0	3167.9
-32.5°	3584.8	3588.3	3591.5	3586.1	3591.5	3588.3	3584.8	3525.7	3441.7	3337.6	3233.6
-35°	3574.1	3584.4	3592.4	3596.3	3592.4	3584.4	3574.1	3520.2	3421.3	3314.1	3208.2
-37.5°	3508.0	3522.2	3529.1	3522.6	3529.1	3522.2	3508.0	3463.2	3350.6	3233.7	3095.1
-40°	3386.7	3396.9	3397.6	3392.2	3397.6	3396.9	3386.7	3355.9	3227.3	3082.9	2874.3
-42.5°	3246.1	3281.9	3298.8	3299.3	3298.8	3281.9	3246.1	3191.1	3010.6	2772.8	2433.4
-45°	2915.9	3065.3	3154.0	3175.7	3154.0	3065.3	2915.9	2723.2	2419.3	2067.8	1713.6
-47.5°	1990.5	2139.0	2235.6	2272.1	2235.6	2139.0	1990.5	1815.5	1596.5	1356.8	1130.4
-50°	1211.6	1229.6	1237.5	1235.8	1237.5	1229.6	1211.6	1193.8	1169.3	1132.5	1096.3
-52.5°	1188.1	1202.3	1211.1	1215.4	1211.1	1202.3	1188.1	1173.7	1154.9	1117.2	1078.6
-55°	1140.8	1158.7	1167.8	1170.0	1167.8	1158.7	1140.8	1119.2	1092.9	1041.4	989.0
-57.5°	1000.4	1015.9	1024.8	1028.3	1024.8	1015.9	1000.4	981.0	957.9	914.1	866.3
-60°	849.1	862.1	867.8	868.5	867.8	862.1	849.1	832.2	811.3	775.7	735.2
-62.5°	696.7	709.7	713.9	713.1	713.9	709.7	696.7	680.3	660.5	632.2	598.5
-65°	543.2	554.4	556.6	554.4	556.6	554.4	543.2	529.1	512.3	489.8	462.6
-67.5°	397.5	406.2	408.8	408.2	408.8	406.2	397.5	386.5	373.4	356.8	336.8
-70°	264.8	270.5	270.3	267.6	270.3	270.5	264.8	257.3	247.7	235.7	221.0
-72.5°	148.6	152.9	156.3	158.7	156.3	152.9	148.6	143.3	137.0	129.8	121.7
-75°	69.2	70.5	72.3	73.7	72.3	70.5	69.2	67.4	65.2	62.6	59.4
-77.5°	34.4	34.9	35.6	36.3	35.6	34.9	34.4	33.8	33.2	32.4	31.6
-80°	25.6	26.0	26.1	26.1	26.0	25.6	25.6	25.1	24.6	24.1	23.8
-82.5°	19.2	19.2	19.3	19.3	19.3	19.2	19.2	19.0	18.9	18.7	18.2
-85°	13.6	13.6	14.1	14.7	14.1	13.6	13.6	13.5	13.5	13.4	13.4
-87.5°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.0
-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°	9.7	9.4	9.1	9.1	9.1	9.1	9.1	8.8	8.5	8.2	7.9
87.5°	0.5	0.8	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.3
80°	1.1	1.1	1.1	1.3	1.4	1.4	1.5	1.6	1.8	2.0	2.1
77.5°	1.1	1.1	1.2	1.6	2.0	2.3	2.5	2.6	2.7	2.8	2.9
75°	2.2	2.2	2.3	2.8	3.1	3.2	3.3	3.2	3.2	3.3	3.4
72.5°	4.6	4.7	5.1	5.9	6.4	6.8	6.9	6.4	5.6	4.3	3.4
70°	6.6	7.3	8.4	10.1	11.4	12.1	12.5	12.2	11.1	9.8	7.5
67.5°	7.7	8.7	10.6	12.9	14.6	16.2	18.0	19.8	20.0	18.7	13.5
65°	7.3	8.5	10.1	11.7	13.9	16.6	20.8	23.4	25.1	25.7	21.2
62.5°	5.9	6.7	7.7	9.2	11.0	13.9	19.2	23.7	27.5	28.3	23.9
60°	5.0	5.8	6.4	7.2	8.2	10.7	15.6	21.4	28.0	27.3	24.4
57.5°	4.3	4.9	5.7	6.3	6.7	8.6	12.0	16.7	22.7	23.4	22.4
55°	4.5	4.8	5.3	6.0	6.8	7.5	8.9	11.8	16.1	17.4	17.7
52.5°	5.6	5.4	5.4	5.5	6.2	7.0	7.6	9.2	10.6	12.5	13.5
50°	5.7	5.9	5.9	5.7	6.3	6.8	7.4	7.9	8.7	9.7	10.4
47.5°	7.9	7.8	7.0	6.7	8.0	7.6	8.0	8.4	8.9	8.7	9.2
45°	16.9	16.5	11.5	11.9	12.9	12.9	10.6	11.3	10.9	10.2	9.1
42.5°	53.2	40.1	35.2	26.1	20.8	20.8	19.6	18.0	16.3	13.5	13.0
40°	89.4	71.4	58.8	48.1	37.5	30.8	32.4	27.5	24.6	21.0	20.8
37.5°	95.4	67.1	78.0	73.9	59.1	55.9	55.8	46.5	34.3	41.5	40.9
35°	117.1	111.6	121.4	118.3	95.4	112.4	102.1	79.9	67.3	74.8	70.2
32.5°	236.6	240.3	227.3	210.5	204.9	202.3	183.4	141.2	134.3	129.0	113.4
30°	451.9	434.7	400.6	379.6	373.2	332.5	293.2	296.1	255.8	198.1	169.3
27.5°	824.8	696.8	645.7	671.4	606.9	525.0	515.3	522.9	421.8	319.6	244.2
25°	1337.1	1151.1	1104.4	1088.6	969.7	854.3	827.7	793.6	677.5	480.0	337.4
22.5°	1977.2	1796.4	1686.6	1622.5	1466.2	1339.2	1224.0	1098.5	980.8	718.6	500.5
20°	2673.5	2453.5	2278.9	2146.7	2009.4	1838.7	1665.5	1449.4	1264.9	1015.7	698.2
17.5°	3999.1	3125.9	2789.0	2623.0	2490.1	2327.0	2043.3	1763.5	1546.1	1327.1	916.5
15°	5812.9	4036.0	3290.4	3031.0	2864.4	2602.0	2337.1	2039.1	1822.3	1608.6	1163.5
12.5°	9708.6	5188.0	3734.9	3255.6	3010.4	2790.0	2570.1	2300.2	2040.1	1759.0	1339.7
10°	13346.3	7011.0	4364.9	3477.7	3128.6	2915.9	2695.9	2383.5	2088.8	1838.7	1489.3
7.5°	17631.5	9189.4	5007.0	3652.1	3226.3	2963.2	2695.0	2375.1	2113.3	1892.9	1612.8
5°	20291.4	10675.9	5408.6	3774.2	3293.6	3018.1	2693.5	2331.2	2117.0	1925.7	1710.4
2.5°	21766.8	11473.6	5594.7	3854.6	3337.2	3076.9	2719.6	2310.1	2116.9	1932.3	1740.5
0°	21938.4	11638.1	5572.5	3862.7	3362.8	3129.2	2781.1	2318.6	2112.2	1927.4	1747.1
-2.5°	21537.6	11298.6	5498.2	3830.1	3348.3	3121.7	2882.8	2409.8	2163.3	1949.2	1739.4
-5°	19400.6	10108.6	5133.5	3648.4	3215.0	3014.5	2821.6	2424.8	2164.2	1946.9	1708.4
-7.5°	15869.9	8341.9	4607.9	3419.4	3045.6	2859.9	2664.4	2348.3	2075.1	1870.4	1609.2
-10°	11356.2	6118.5	3937.2	3170.3	2871.3	2696.4	2521.2	2242.7	1977.5	1785.8	1491.4
-12.5°	8261.8	4537.9	3319.6	2893.2	2692.7	2558.1	2410.8	2122.0	1872.9	1694.0	1357.6
-15°	5148.0	3673.6	3037.1	2720.2	2527.3	2428.2	2313.8	2056.6	1853.0	1625.8	1210.0
-17.5°	3949.8	3102.8	2797.2	2597.7	2450.7	2333.7	2223.9	2042.4	1844.9	1569.4	1079.6
-20°	3229.7	2932.0	2697.3	2527.9	2412.9	2312.3	2178.0	2036.7	1815.8	1419.4	953.3



REPORT NUMBER: P731310 (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°	3037.9	2877.3	2692.0	2518.0	2384.6	2269.9	2141.8	1998.8	1767.6	1221.1	814.8
-25°	2958.9	2877.4	2737.2	2587.8	2393.6	2224.0	2097.7	1909.8	1525.0	1025.3	687.1
-27.5°	2986.3	2920.6	2833.7	2672.9	2463.3	2214.1	2013.9	1772.3	1248.0	859.7	679.5
-30°	3090.5	3004.9	2898.7	2758.7	2515.0	2245.9	1939.0	1453.6	1025.7	724.5	673.9
-32.5°	3162.0	3030.1	2904.7	2760.9	2536.6	2237.3	1673.3	1151.6	806.3	716.9	673.8
-35°	3106.3	2947.9	2784.5	2641.7	2513.2	1887.4	1314.3	910.2	755.9	709.7	672.3
-37.5°	2938.2	2743.7	2576.4	2384.8	1920.7	1413.2	984.5	809.4	750.6	704.0	648.1
-40°	2664.3	2472.1	2112.8	1721.2	1352.6	979.2	863.0	807.0	753.3	682.6	612.1
-42.5°	2128.7	1801.7	1492.6	1191.4	944.3	906.2	861.7	811.5	742.7	653.6	571.3
-45°	1471.8	1233.4	1006.0	973.2	937.4	901.8	867.2	794.1	707.8	616.3	529.5
-47.5°	1065.3	1034.1	1002.2	969.7	935.3	892.8	825.9	752.2	658.2	570.9	494.7
-50°	1059.1	1025.1	993.6	956.3	892.7	829.4	760.4	686.1	601.3	524.8	453.2
-52.5°	1035.3	981.9	928.5	874.3	813.9	748.0	680.1	614.0	542.7	471.4	404.3
-55°	936.3	883.2	830.5	777.5	724.5	664.4	603.3	540.6	476.7	411.7	353.3
-57.5°	816.7	768.5	723.6	678.6	634.0	577.5	518.1	460.6	406.7	351.3	300.2
-60°	693.8	653.0	612.4	570.3	527.0	478.6	427.7	379.2	333.3	292.1	250.9
-62.5°	562.9	525.6	491.1	455.2	417.4	377.0	337.8	303.9	270.1	234.7	195.9
-65°	433.5	402.8	372.4	345.8	319.6	293.7	264.4	232.9	200.6	169.0	136.9
-67.5°	315.6	293.5	272.8	252.4	230.2	206.5	179.6	152.6	131.0	110.8	88.5
-70°	204.9	187.5	170.0	152.3	137.3	123.8	108.6	92.3	75.2	63.2	53.0
-72.5°	112.7	102.9	93.0	83.1	72.3	65.4	59.0	51.7	43.9	35.6	29.6
-75°	55.8	51.9	47.9	44.0	39.5	34.5	31.8	29.8	28.0	26.1	24.2
-77.5°	30.8	29.9	29.1	28.1	27.1	25.8	24.5	23.2	22.0	21.0	19.9
-80°	23.4	22.9	22.3	21.5	20.6	19.7	18.8	18.1	17.4	16.8	16.2
-82.5°	17.8	17.3	16.8	16.4	15.9	15.5	15.1	14.7	14.2	13.6	13.0
-85°	13.3	13.1	13.0	12.8	12.7	12.5	12.4	12.0	11.7	11.4	11.1
-87.5°	10.7	10.4	10.1	10.1	10.1	10.0	10.0	9.9	9.8	9.7	9.5
-90°	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.1	1.1	1.1	1.1



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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°	7.6	7.4	7.1	6.8	6.8	6.8	6.8	6.8	6.5	6.3	6.0
87.5°	1.3	1.5	1.6	1.8	1.9	2.0	2.1	2.3	2.4	2.5	2.5
85°	1.4	1.7	2.0	2.3	2.3	2.3	2.3	2.3	2.5	2.7	2.8
82.5°	1.4	1.7	2.0	2.3	2.5	2.6	2.6	2.6	2.7	2.9	3.1
80°	2.0	2.1	2.2	2.3	2.6	2.9	3.0	3.1	3.0	3.1	3.2
77.5°	2.7	2.5	2.3	2.4	2.6	2.9	3.2	3.4	3.3	3.2	3.3
75°	3.4	3.2	3.0	2.8	2.8	2.9	3.2	3.4	3.4	3.4	3.4
72.5°	3.4	3.4	3.4	3.4	3.2	3.2	3.3	3.4	3.4	3.4	3.4
70°	5.3	3.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	8.6	6.1	4.4	3.5	3.4	3.4	3.4	3.5	3.6	3.4	3.4
65°	15.1	9.8	5.6	4.6	3.8	3.4	3.4	3.6	3.8	3.6	3.4
62.5°	19.5	14.6	9.7	6.3	4.6	3.9	3.4	3.7	3.9	3.9	3.6
60°	21.5	17.0	13.4	9.7	6.3	4.4	3.9	3.7	4.0	4.2	3.9
57.5°	19.9	18.2	15.5	12.4	8.9	5.8	4.4	4.1	4.0	4.3	4.2
55°	17.0	15.9	16.6	14.4	11.1	7.7	5.3	4.5	4.2	4.3	4.5
52.5°	13.4	14.3	15.8	15.5	12.8	9.5	6.9	5.0	4.6	4.4	4.6
50°	10.7	12.8	15.1	15.8	14.3	11.2	8.4	6.2	5.0	4.5	4.7
47.5°	9.9	12.0	14.0	16.2	15.4	12.9	9.8	7.2	5.5	4.9	4.7
45°	10.9	11.8	13.4	15.3	16.7	14.3	11.4	8.2	6.2	5.3	4.8
42.5°	13.4	13.5	13.5	14.6	16.4	15.4	12.8	9.4	6.9	5.8	5.0
40°	19.2	17.1	14.8	16.0	16.4	16.5	13.9	10.6	7.5	6.3	5.4
37.5°	26.7	23.2	19.1	20.1	17.8	16.9	14.8	11.8	8.4	6.9	5.8
35°	51.6	31.6	32.5	29.9	23.5	17.8	15.7	12.9	9.8	7.5	6.2
32.5°	83.7	60.8	59.9	46.2	31.1	19.1	16.7	14.2	11.2	8.1	6.7
30°	137.4	126.5	99.6	66.7	42.9	26.2	18.4	15.7	12.6	8.7	7.1
27.5°	221.9	204.6	153.8	103.4	62.6	35.4	21.7	17.3	14.0	9.5	7.6
25°	307.5	285.4	229.1	152.0	85.1	55.0	25.7	19.0	15.4	10.7	8.1
22.5°	393.0	364.1	312.5	207.9	119.1	80.2	35.9	22.1	16.7	11.8	8.5
20°	474.7	442.2	396.3	254.7	160.4	110.2	54.3	25.6	18.1	12.9	8.9
17.5°	569.6	501.7	432.5	303.9	201.5	140.3	75.6	29.4	19.5	13.9	9.3
15°	715.5	537.4	465.3	347.8	237.2	170.2	99.0	33.4	20.8	14.9	9.7
12.5°	848.1	570.7	497.8	386.3	267.7	199.7	123.9	37.5	22.2	15.8	10.1
10°	972.1	601.5	529.2	419.5	293.8	228.4	149.2	41.8	23.9	16.4	10.4
7.5°	1084.5	629.8	559.0	447.6	314.1	247.2	166.3	46.0	25.7	17.0	10.6
5°	1173.0	652.1	583.5	467.6	321.9	254.3	179.9	49.9	27.4	17.5	10.9
2.5°	1202.3	666.4	603.1	483.2	328.0	259.1	190.6	53.5	29.1	17.8	11.1
0°	1208.6	678.0	619.0	494.3	332.2	261.9	198.4	56.7	30.6	18.1	11.3
-2.5°	1202.6	679.3	619.7	503.8	345.2	269.9	205.4	70.7	40.3	23.6	14.0
-5°	1175.3	678.5	617.3	508.6	355.9	276.4	209.7	83.9	49.6	28.9	16.5
-7.5°	1102.6	669.3	608.8	508.0	363.8	281.3	211.8	96.1	58.2	33.8	18.9
-10°	1008.8	653.9	592.8	497.2	369.0	287.3	212.5	107.1	66.0	38.2	21.0
-12.5°	902.8	636.3	577.1	485.1	372.3	294.2	214.4	116.5	72.7	42.0	22.8
-15°	787.0	616.7	562.4	472.5	374.0	299.5	214.3	124.1	78.4	45.7	24.3
-17.5°	667.8	595.0	549.6	460.5	374.1	303.3	212.3	129.9	83.1	49.3	26.0
-20°	645.1	585.8	537.8	449.8	373.0	305.4	208.6	133.6	86.8	52.1	27.6



REPORT NUMBER: P731310 (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°
-22.5°	639.6	588.7	528.5	444.4	371.7	306.0	203.4	135.2	89.5	53.8	28.6
-25°	633.9	592.3	518.7	438.1	370.2	297.1	200.5	134.5	91.0	54.5	28.9
-27.5°	634.4	591.4	506.1	427.6	361.8	286.7	199.0	135.5	91.5	54.0	28.4
-30°	638.6	574.7	491.2	413.9	350.3	269.6	194.3	135.2	90.8	53.2	27.1
-32.5°	634.2	555.2	471.8	399.0	331.5	251.7	184.6	133.3	88.6	51.6	26.2
-35°	606.2	528.9	447.9	380.5	309.9	237.6	174.3	130.0	84.6	48.9	25.2
-37.5°	575.1	497.2	424.3	357.8	287.8	221.7	166.2	122.0	79.1	44.9	23.7
-40°	538.5	465.7	398.3	333.3	267.6	204.2	156.0	112.0	73.1	39.7	21.5
-42.5°	500.4	435.3	370.6	308.3	246.6	190.5	143.6	100.5	64.7	35.6	18.8
-45°	465.5	402.5	340.3	281.7	224.6	174.6	129.0	87.8	55.2	31.7	16.7
-47.5°	427.7	366.4	308.4	253.2	203.9	156.3	112.5	75.7	44.7	27.1	16.0
-50°	385.4	328.8	275.2	225.9	180.2	135.7	95.1	62.5	38.3	21.5	15.2
-52.5°	343.7	290.6	242.6	197.9	154.3	113.2	78.7	48.8	31.2	18.9	14.2
-55°	299.5	253.1	210.0	167.1	126.3	91.9	61.0	40.0	23.7	17.5	13.2
-57.5°	256.5	215.4	173.6	133.6	99.5	69.9	47.3	30.6	20.5	16.0	12.9
-60°	211.2	171.7	134.1	102.0	73.2	51.4	35.8	23.2	18.5	14.6	12.5
-62.5°	159.3	126.4	98.3	70.9	51.8	37.4	25.4	20.7	16.4	13.9	12.0
-65°	111.3	86.3	63.1	49.0	35.6	25.7	22.2	18.0	15.3	13.3	11.4
-67.5°	66.8	54.7	42.5	30.4	25.3	22.1	18.8	16.4	14.4	12.5	10.9
-70°	42.6	32.0	27.0	24.2	21.3	18.7	17.1	15.3	13.5	11.8	10.3
-72.5°	27.3	24.9	22.4	20.0	18.4	16.9	15.6	14.1	12.5	11.0	9.7
-75°	22.1	20.5	19.0	17.6	16.3	15.1	14.0	12.8	11.4	10.1	9.0
-77.5°	18.6	17.4	16.2	15.3	14.4	13.5	12.5	11.5	10.4	9.4	8.4
-80°	15.4	14.7	14.1	13.4	12.6	11.8	11.2	10.5	9.6	8.7	7.8
-82.5°	12.6	12.3	11.9	11.5	11.0	10.5	10.0	9.6	8.8	8.0	7.2
-85°	10.8	10.5	10.0	9.6	9.3	9.1	8.9	8.7	8.0	7.4	6.8
-87.5°	9.2	8.8	8.5	8.1	8.0	7.9	7.9	7.8	7.3	6.8	6.4
-90°	1.1	1.1	1.1	1.1	1.4	1.7	2.0	2.3	2.3	2.3	2.3



REPORT NUMBER: P731310 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.7	5.4	5.1	4.8	4.5	4.0	3.4
87.5°	2.6	2.8	2.9	3.2	3.4	3.4	3.4
85°	2.9	2.9	3.0	3.2	3.4	3.4	3.4
82.5°	3.2	3.1	3.1	3.2	3.4	3.5	3.4
80°	3.4	3.3	3.2	3.3	3.4	3.5	3.4
77.5°	3.4	3.4	3.3	3.3	3.4	3.5	3.4
75°	3.4	3.5	3.4	3.3	3.4	3.5	3.4
72.5°	3.5	3.6	3.5	3.4	3.4	3.6	3.4
70°	3.5	3.6	3.6	3.4	3.4	3.6	3.4
67.5°	3.5	3.7	3.7	3.5	3.5	3.6	3.4
65°	3.5	3.8	3.8	3.6	3.5	3.7	3.4
62.5°	3.6	3.8	4.0	3.8	3.5	3.7	3.4
60°	3.6	3.9	4.1	3.9	3.5	3.7	3.4
57.5°	3.9	3.9	4.1	4.0	3.6	3.7	3.4
55°	4.2	3.9	4.1	4.1	3.7	3.8	3.4
52.5°	4.4	4.0	4.2	4.2	3.8	3.8	3.4
50°	4.7	4.2	4.2	4.3	3.9	3.8	3.4
47.5°	5.0	4.4	4.2	4.4	4.0	3.9	3.4
45°	5.0	4.7	4.3	4.5	4.0	3.9	3.4
42.5°	5.1	4.9	4.3	4.5	4.1	3.9	3.4
40°	5.1	5.1	4.4	4.5	4.2	4.0	3.4
37.5°	5.2	5.3	4.6	4.5	4.2	4.0	3.4
35°	5.3	5.4	4.7	4.6	4.3	4.0	3.4
32.5°	5.4	5.5	4.9	4.6	4.3	4.1	3.4
30°	5.7	5.5	5.0	4.7	4.4	4.1	3.4
27.5°	6.1	5.6	5.2	4.7	4.4	4.2	3.4
25°	6.4	5.7	5.3	4.8	4.4	4.2	3.4
22.5°	6.7	5.7	5.4	4.9	4.4	4.2	3.4
20°	7.0	5.8	5.5	5.0	4.5	4.3	3.4
17.5°	7.4	5.9	5.6	5.1	4.5	4.3	3.4
15°	7.7	6.0	5.6	5.2	4.5	4.3	3.4
12.5°	8.0	6.1	5.6	5.3	4.5	4.4	3.4
10°	8.3	6.3	5.7	5.3	4.5	4.4	3.4
7.5°	8.5	6.4	5.7	5.4	4.5	4.4	3.4
5°	8.7	6.5	5.7	5.5	4.5	4.4	3.4
2.5°	8.9	6.7	5.7	5.6	4.5	4.5	3.4
0°	9.1	6.8	5.7	5.7	4.5	4.5	3.4
-2.5°	10.0	7.2	5.9	5.8	4.6	4.5	3.4
-5°	10.8	7.5	6.1	5.8	4.6	4.5	3.4
-7.5°	11.6	7.9	6.3	5.9	4.7	4.6	3.4
-10°	12.3	8.2	6.4	5.9	4.7	4.6	3.4
-12.5°	13.0	8.5	6.6	6.0	4.8	4.6	3.4
-15°	13.5	8.7	6.8	6.0	4.8	4.6	3.4
-17.5°	13.8	8.9	6.9	6.0	4.9	4.6	3.4
-20°	14.3	9.1	7.0	6.1	4.9	4.6	3.4



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-2S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	14.8	9.2	7.1	6.1	5.0	4.6	3.4
-25°	15.0	9.4	7.2	6.1	5.0	4.6	3.4
-27.5°	14.9	9.5	7.3	6.1	5.1	4.7	3.4
-30°	14.4	9.5	7.3	6.1	5.1	4.6	3.4
-32.5°	13.6	9.5	7.4	6.1	5.1	4.6	3.4
-35°	13.2	9.4	7.5	6.0	5.2	4.6	3.4
-37.5°	13.1	9.4	7.5	6.0	5.2	4.6	3.4
-40°	12.9	9.4	7.5	6.0	5.3	4.6	3.4
-42.5°	12.5	9.4	7.5	6.0	5.3	4.6	3.4
-45°	12.1	9.4	7.5	5.9	5.3	4.6	3.4
-47.5°	11.5	9.3	7.5	5.9	5.4	4.6	3.4
-50°	11.3	9.2	7.4	5.9	5.4	4.6	3.4
-52.5°	11.2	9.1	7.3	6.0	5.5	4.5	3.4
-55°	10.9	8.9	7.2	6.0	5.5	4.5	3.4
-57.5°	10.7	8.8	7.1	6.0	5.5	4.5	3.4
-60°	10.4	8.5	6.9	6.0	5.5	4.4	3.4
-62.5°	10.1	8.3	6.9	6.0	5.5	4.4	3.4
-65°	9.7	8.0	6.8	6.0	5.4	4.4	3.4
-67.5°	9.3	7.8	6.7	6.0	5.3	4.3	3.4
-70°	8.9	7.5	6.6	5.9	5.2	4.3	3.4
-72.5°	8.4	7.2	6.4	5.8	5.2	4.3	3.4
-75°	7.9	6.9	6.2	5.7	5.1	4.2	3.4
-77.5°	7.4	6.6	6.1	5.5	5.0	4.2	3.4
-80°	6.8	6.3	5.9	5.4	4.9	4.1	3.4
-82.5°	6.5	6.1	5.7	5.3	4.8	4.1	3.4
-85°	6.3	5.9	5.5	5.1	4.7	4.0	3.4
-87.5°	6.0	5.6	5.3	5.0	4.6	4.0	3.4
-90°	2.3	2.6	2.9	3.1	3.4	3.4	3.4

(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

