

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: P731334 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-2S-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731334 (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-40-80-2S-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 2S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

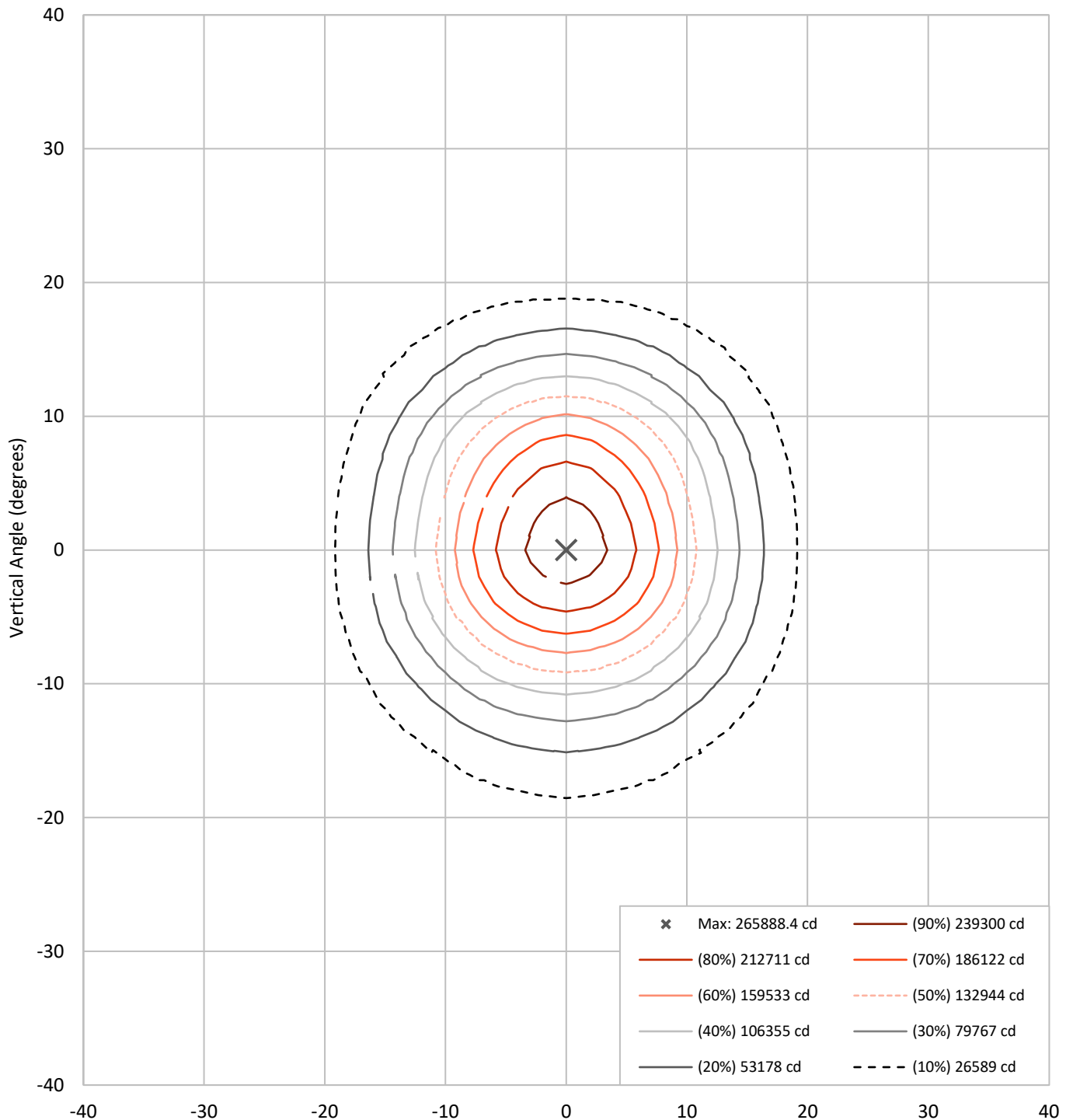
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	42994.4 lumens	Max Intensity:	265888.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	123.4 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:	19964.7 lumens	Field Lumens:	36346.5 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-40-80-2S-CV1

Iso-Candela Plot





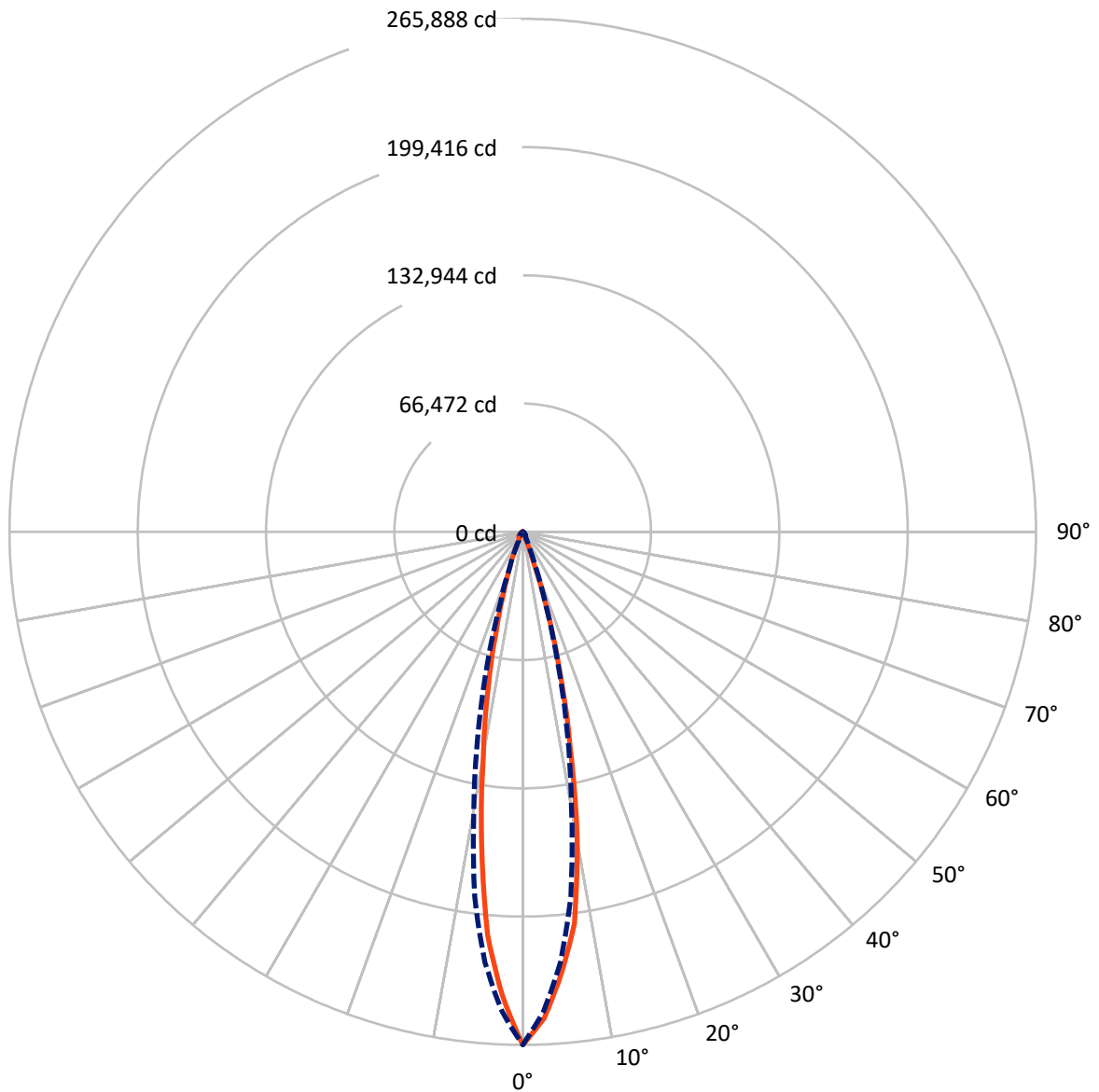
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Lumen Table

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	0.2	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.1	0.0	0.1
60		0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	
50	0.1	0.1	0.2	0.2	0.3	0.6	1.0	0.6	0.6	1.0	0.6	0.3	0.2	0.2	0.1	0.1
40		0.2	0.6	1.5	2.8	4.1	5.7	6.9	6.9	5.7	4.1	2.8	1.5	0.6	0.2	
30	0.1	0.3	2.7	8.7	20.6	31.2	54.0	102.4	102.4	54.0	31.2	20.6	8.7	2.7	0.3	0.1
20		0.8	5.8	23.0	52.7	98.5	643.2	1993.3	1993.3	643.2	98.5	52.7	23.0	5.8	0.8	
10	0.2	1.3	7.5	30.9	62.6	197.3	1890.6	5666.2	5666.2	1890.6	197.3	62.6	30.9	7.5	1.3	0.2
0		1.6	8.0	30.9	62.4	188.1	1778.1	5153.3	5153.3	1778.1	188.1	62.4	30.9	8.0	1.6	
-10	0.3	1.8	7.7	24.7	52.8	91.5	523.1	1514.6	1514.6	523.1	91.5	52.8	24.7	7.7	1.8	0.3
-20		1.9	7.2	17.6	47.3	70.6	107.3	207.3	207.3	107.3	70.6	47.3	17.6	7.2	1.9	
-30	0.3	1.6	6.2	13.2	33.0	68.5	89.0	99.5	99.5	89.0	68.5	33.0	13.2	6.2	1.6	0.3
-40		1.2	4.7	10.8	19.5	33.0	56.5	75.3	75.3	56.5	33.0	19.5	10.8	4.7	1.2	
-50	0.2	0.6	2.8	7.2	13.9	21.0	27.4	31.0	31.0	27.4	21.0	13.9	7.2	2.8	0.6	0.2
-60		0.2	0.9	2.9	6.1	9.8	13.5	15.6	15.6	13.5	9.8	6.1	2.9	0.9	0.2	
-70	0.1	0.7	2.1	4.8	6.5	4.8	2.1	0.7	0.1						0.1	
-80		0.1	0.7	2.1	4.8	6.5	4.8	2.1	0.7	0.1						
-90	0.1	0.7	2.1	4.8	6.5	4.8	2.1	0.7	0.1						0.1	

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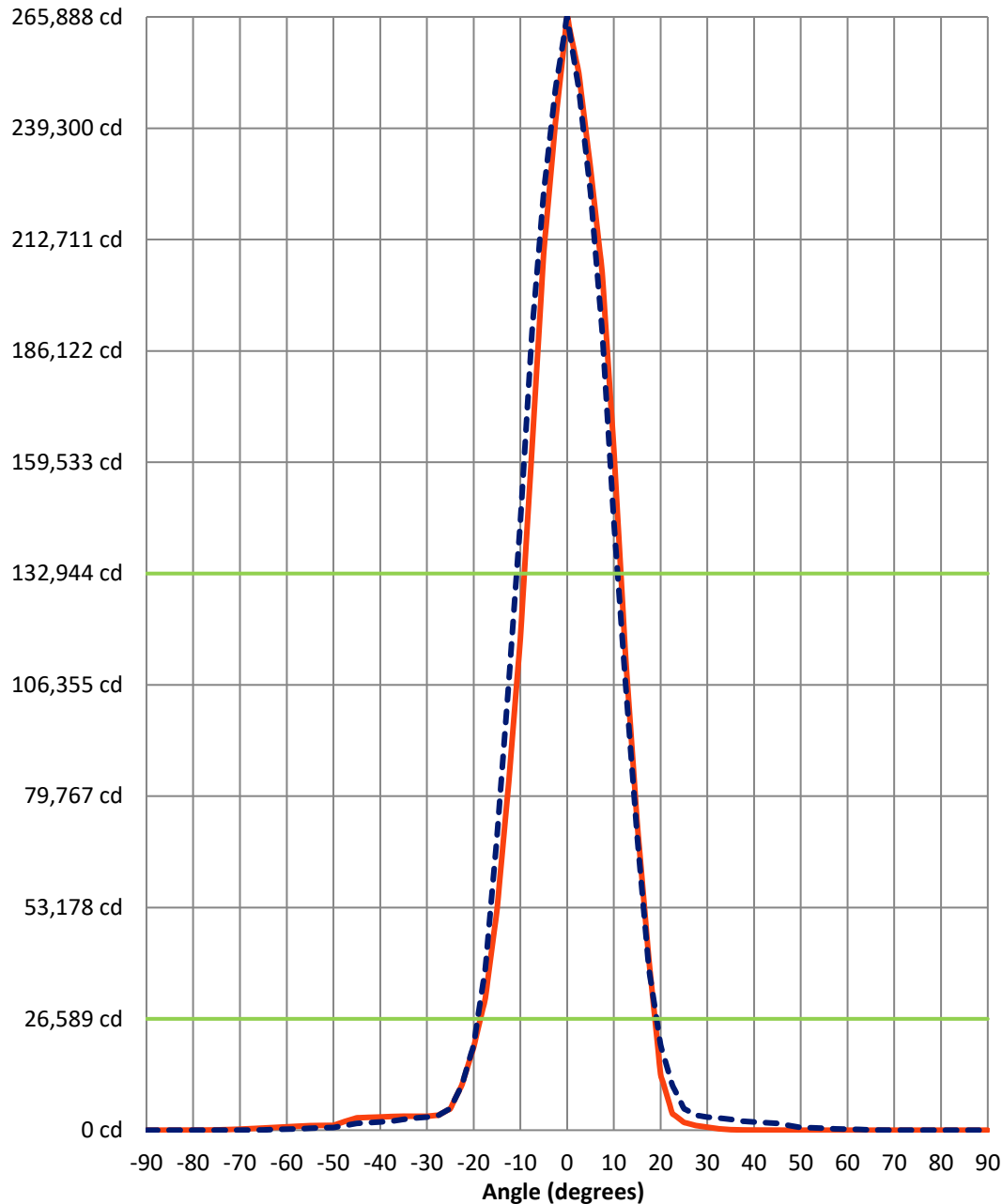
Luminous Intensity Polar Plot



— 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: 19964.7
 Efficiency: 46.4%

Field:
 H Angle: 38.3°
 V Angle: 37.3°
 Lumens: 36346.5
 Efficiency: 84.5%

Spill:
 Lumens: 6647.9
 Efficiency: 15.5%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	3.2	3.7	4.2	4.5	4.8	5.0	5.3	5.6	5.8	6.1	6.3
87.5°	3.2	3.2	3.2	3.0	2.7	2.6	2.4	2.3	2.3	2.2	2.1
85°	3.2	3.2	3.2	3.0	2.8	2.7	2.7	2.6	2.5	2.3	2.1
82.5°	3.2	3.3	3.2	3.0	2.9	2.9	3.0	2.9	2.7	2.5	2.4
80°	3.2	3.3	3.2	3.1	3.0	3.1	3.2	3.0	2.9	2.8	2.9
77.5°	3.2	3.3	3.2	3.1	3.1	3.2	3.2	3.1	3.0	3.1	3.2
75°	3.2	3.3	3.2	3.1	3.2	3.3	3.2	3.2	3.2	3.2	3.2
72.5°	3.2	3.4	3.2	3.2	3.3	3.4	3.3	3.2	3.2	3.2	3.2
70°	3.2	3.4	3.2	3.2	3.4	3.4	3.3	3.2	3.2	3.2	3.2
67.5°	3.2	3.4	3.3	3.3	3.5	3.5	3.3	3.2	3.2	3.3	3.3
65°	3.2	3.4	3.3	3.4	3.6	3.6	3.3	3.2	3.4	3.5	3.4
62.5°	3.2	3.5	3.3	3.5	3.7	3.6	3.4	3.4	3.7	3.7	3.5
60°	3.2	3.5	3.3	3.6	3.8	3.6	3.4	3.6	3.9	3.7	3.5
57.5°	3.2	3.5	3.4	3.7	3.9	3.6	3.6	3.9	4.0	3.8	3.8
55°	3.2	3.5	3.5	3.8	3.9	3.7	3.9	4.2	4.0	3.9	4.2
52.5°	3.2	3.6	3.6	3.9	3.9	3.7	4.1	4.3	4.1	4.3	4.7
50°	3.2	3.6	3.7	4.1	3.9	3.9	4.4	4.4	4.2	4.7	5.7
47.5°	3.2	3.6	3.7	4.1	4.0	4.2	4.6	4.4	4.6	5.1	6.7
45°	3.2	3.7	3.8	4.2	4.0	4.4	4.7	4.5	5.0	5.8	7.6
42.5°	3.2	3.7	3.8	4.2	4.0	4.6	4.7	4.7	5.4	6.5	8.7
40°	3.2	3.7	3.9	4.2	4.1	4.8	4.8	5.1	5.8	7.0	9.9
37.5°	3.2	3.8	3.9	4.2	4.3	5.0	4.8	5.4	6.5	7.9	11.0
35°	3.2	3.8	4.0	4.3	4.4	5.1	4.9	5.8	7.0	9.1	11.9
32.5°	3.2	3.8	4.0	4.3	4.6	5.1	5.0	6.2	7.6	10.4	13.2
30°	3.2	3.8	4.1	4.4	4.7	5.2	5.3	6.6	8.2	11.7	14.6
27.5°	3.2	3.9	4.1	4.4	4.8	5.2	5.7	7.1	8.9	13.0	16.0
25°	3.2	3.9	4.1	4.5	4.9	5.3	6.0	7.5	9.9	14.3	17.6
22.5°	3.2	3.9	4.1	4.6	5.0	5.3	6.3	8.0	11.0	15.5	20.5
20°	3.2	4.0	4.2	4.6	5.1	5.4	6.6	8.3	12.0	16.8	23.8
17.5°	3.2	4.0	4.2	4.7	5.2	5.5	6.9	8.7	13.0	18.1	27.3
15°	3.2	4.0	4.2	4.8	5.2	5.6	7.2	9.1	13.9	19.4	31.1
12.5°	3.2	4.1	4.2	4.9	5.3	5.7	7.4	9.4	14.7	20.6	34.9
10°	3.2	4.1	4.2	5.0	5.3	5.8	7.7	9.6	15.3	22.2	38.8
7.5°	3.2	4.1	4.2	5.1	5.3	5.9	7.9	9.9	15.8	23.8	42.7
5°	3.2	4.2	4.2	5.1	5.3	6.1	8.1	10.1	16.2	25.5	46.4
2.5°	3.2	4.2	4.2	5.2	5.3	6.2	8.3	10.3	16.6	27.0	49.7
0°	3.2	4.2	4.2	5.3	5.3	6.3	8.4	10.5	16.8	28.4	52.6
-2.5°	3.2	4.2	4.2	5.4	5.5	6.6	9.2	13.0	21.9	37.4	65.6
-5°	3.2	4.2	4.3	5.4	5.7	7.0	10.0	15.3	26.8	46.0	77.9
-7.5°	3.2	4.3	4.3	5.5	5.8	7.3	10.7	17.5	31.4	54.0	89.2
-10°	3.2	4.3	4.4	5.5	6.0	7.6	11.4	19.5	35.5	61.2	99.5
-12.5°	3.2	4.3	4.4	5.6	6.2	7.9	12.0	21.2	39.0	67.5	108.2
-15°	3.2	4.3	4.5	5.6	6.3	8.1	12.4	22.5	42.4	72.8	115.2
-17.5°	3.2	4.3	4.5	5.6	6.4	8.3	12.8	24.1	45.8	77.2	120.6
-20°	3.2	4.3	4.6	5.6	6.6	8.5	13.2	25.6	48.4	80.7	124.1



REPORT NUMBER: P731334 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.2	4.3	4.6	5.6	6.7	8.6	13.7	26.6	50.0	83.1	125.6
-25°	3.2	4.3	4.7	5.6	6.7	8.7	13.9	26.8	50.6	84.5	124.9
-27.5°	3.2	4.3	4.7	5.6	6.8	8.9	13.8	26.4	50.2	85.0	125.8
-30°	3.2	4.3	4.8	5.6	6.8	8.9	13.4	25.1	49.4	84.4	125.6
-32.5°	3.2	4.3	4.8	5.6	6.9	8.9	12.6	24.4	48.0	82.3	123.9
-35°	3.2	4.3	4.8	5.6	6.9	8.8	12.3	23.4	45.4	78.7	120.8
-37.5°	3.2	4.3	4.9	5.6	7.0	8.7	12.2	22.0	41.8	73.5	113.3
-40°	3.2	4.3	4.9	5.6	7.0	8.8	12.0	20.0	36.9	67.9	104.1
-42.5°	3.2	4.3	4.9	5.5	7.0	8.8	11.7	17.4	33.1	60.2	93.4
-45°	3.2	4.3	5.0	5.5	7.0	8.7	11.2	15.5	29.5	51.3	81.6
-47.5°	3.2	4.3	5.0	5.5	6.9	8.7	10.7	14.8	25.2	41.5	70.4
-50°	3.2	4.3	5.0	5.5	6.9	8.6	10.5	14.1	20.0	35.5	58.1
-52.5°	3.2	4.2	5.1	5.6	6.8	8.4	10.4	13.2	17.5	29.0	45.3
-55°	3.2	4.2	5.1	5.6	6.7	8.3	10.2	12.3	16.2	22.0	37.2
-57.5°	3.2	4.2	5.1	5.6	6.6	8.1	9.9	12.0	14.8	19.0	28.4
-60°	3.2	4.2	5.2	5.6	6.4	7.9	9.6	11.6	13.5	17.2	21.5
-62.5°	3.2	4.1	5.1	5.6	6.4	7.7	9.3	11.1	12.9	15.2	19.2
-65°	3.2	4.1	5.0	5.6	6.3	7.4	9.0	10.6	12.3	14.2	16.7
-67.5°	3.2	4.1	5.0	5.6	6.2	7.2	8.6	10.1	11.7	13.4	15.3
-70°	3.2	4.0	4.9	5.5	6.1	7.0	8.2	9.5	11.0	12.5	14.2
-72.5°	3.2	4.0	4.8	5.4	5.9	6.7	7.8	8.9	10.2	11.6	13.1
-75°	3.2	4.0	4.7	5.3	5.8	6.4	7.3	8.4	9.4	10.6	11.9
-77.5°	3.2	3.9	4.7	5.2	5.6	6.1	6.8	7.8	8.7	9.7	10.7
-80°	3.2	3.9	4.6	5.0	5.5	5.9	6.3	7.2	8.1	8.9	9.8
-82.5°	3.2	3.8	4.5	4.9	5.3	5.7	6.1	6.7	7.4	8.1	8.9
-85°	3.2	3.8	4.4	4.8	5.1	5.5	5.8	6.3	6.8	7.4	8.1
-87.5°	3.2	3.7	4.3	4.6	4.9	5.2	5.6	5.9	6.3	6.7	7.2
-90°	3.2	3.2	3.2	2.9	2.7	2.4	2.1	2.1	2.1	2.1	2.1



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	6.3	6.3	6.3	6.3	6.6	6.9	7.1	7.4	7.7	7.9	8.2
87.5°	2.0	1.9	1.8	1.7	1.6	1.4	1.3	1.1	1.1	1.1	1.1
85°	2.1	2.1	2.1	2.1	1.9	1.6	1.4	1.1	1.1	1.1	1.1
82.5°	2.4	2.4	2.3	2.1	1.9	1.6	1.4	1.2	1.3	1.3	1.2
80°	2.8	2.7	2.4	2.1	2.0	1.9	1.9	1.9	1.8	1.7	1.6
77.5°	3.0	2.7	2.4	2.2	2.1	2.3	2.5	2.7	2.6	2.5	2.4
75°	3.0	2.7	2.6	2.6	2.8	3.0	3.2	3.2	3.1	3.0	3.0
72.5°	3.1	3.0	3.0	3.2	3.2	3.2	3.2	3.2	4.1	5.2	6.0
70°	3.2	3.2	3.2	3.2	3.2	3.5	4.9	7.0	9.2	10.3	11.4
67.5°	3.2	3.2	3.2	3.3	4.1	5.7	8.0	12.5	17.4	18.6	18.4
65°	3.2	3.2	3.6	4.3	5.2	9.1	14.0	19.7	24.0	23.3	21.8
62.5°	3.2	3.6	4.3	5.9	9.0	13.6	18.1	22.2	26.3	25.5	22.0
60°	3.6	4.1	5.9	9.0	12.4	15.8	20.0	22.7	25.4	26.0	19.9
57.5°	4.1	5.4	8.3	11.5	14.4	16.9	18.5	20.9	21.7	21.2	15.5
55°	5.0	7.1	10.2	13.3	15.4	14.8	15.8	16.5	16.2	15.0	11.0
52.5°	6.4	8.7	11.8	14.4	14.7	13.3	12.4	12.6	11.6	9.9	8.6
50°	7.7	10.4	13.2	14.7	14.1	11.9	9.9	9.6	8.9	8.1	7.4
47.5°	9.1	12.0	14.3	15.0	13.0	11.1	9.2	8.5	8.1	8.3	7.9
45°	10.5	13.2	15.5	14.2	12.4	10.9	10.1	8.4	9.5	10.1	10.5
42.5°	11.9	14.3	15.3	13.6	12.6	12.6	12.4	12.0	12.6	15.2	16.7
40°	12.8	15.3	15.2	14.9	13.8	15.9	17.8	19.3	19.5	22.9	25.6
37.5°	13.7	15.7	16.6	18.7	17.7	21.5	24.8	38.0	38.5	31.8	43.2
35°	14.5	16.5	21.8	27.8	30.2	29.3	47.9	65.2	69.5	62.5	74.2
32.5°	15.4	17.7	28.9	42.9	55.6	56.5	77.7	105.3	119.8	124.7	131.1
30°	17.1	24.3	39.9	62.0	92.5	117.4	127.6	157.2	183.9	237.5	275.0
27.5°	20.1	32.9	58.2	96.0	142.8	190.0	206.1	226.8	296.8	391.7	485.5
25°	23.9	51.1	79.0	141.1	212.7	265.0	285.6	313.3	445.8	629.1	736.9
22.5°	33.4	74.5	110.6	193.1	290.1	338.1	365.0	464.7	667.3	910.8	1020.0
20°	50.5	102.3	149.0	236.5	367.9	410.7	440.8	648.4	943.2	1174.5	1345.9
17.5°	70.2	130.3	187.2	282.2	401.6	466.0	528.9	851.0	1232.4	1435.8	1637.5
15°	92.0	158.0	220.2	322.9	432.1	499.1	664.4	1080.4	1493.8	1692.2	1893.5
12.5°	115.0	185.4	248.6	358.7	462.2	530.0	787.6	1244.0	1633.5	1894.5	2136.0
10°	138.6	212.1	272.8	389.5	491.4	558.6	902.7	1383.0	1707.5	1939.7	2213.3
7.5°	154.4	229.6	291.7	415.7	519.1	584.8	1007.1	1497.7	1757.7	1962.4	2205.5
5°	167.0	236.1	298.9	434.3	541.9	605.6	1089.3	1588.3	1788.3	1965.9	2164.7
2.5°	177.0	240.6	304.6	448.7	560.0	618.8	1116.5	1616.2	1794.3	1965.8	2145.2
0°	184.2	243.2	308.5	459.0	574.8	629.6	1122.3	1622.4	1789.8	1961.4	2153.0
-2.5°	190.7	250.7	320.6	467.8	575.5	630.8	1116.8	1615.2	1810.0	2008.9	2237.8
-5°	194.7	256.7	330.5	472.3	573.2	630.1	1091.4	1586.4	1807.9	2009.8	2251.8
-7.5°	196.7	261.2	337.8	471.7	565.4	621.5	1023.9	1494.3	1736.9	1927.0	2180.7
-10°	197.3	266.8	342.7	461.7	550.6	607.2	936.8	1384.9	1658.3	1836.4	2082.5
-12.5°	199.1	273.2	345.7	450.5	535.9	590.9	838.3	1260.7	1573.1	1739.3	1970.5
-15°	199.0	278.1	347.3	438.8	522.3	572.7	730.8	1123.6	1509.8	1720.8	1909.8
-17.5°	197.2	281.6	347.4	427.6	510.4	552.5	620.2	1002.5	1457.4	1713.2	1896.6
-20°	193.7	283.6	346.4	417.7	499.5	544.0	599.1	885.2	1318.0	1686.2	1891.4



REPORT NUMBER: P731334 (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°	188.8	284.1	345.2	412.7	490.9	546.7	594.0	756.7	1134.0	1641.4	1856.1
-25°	186.2	275.8	343.8	406.8	481.7	550.0	588.7	638.1	952.1	1416.1	1773.5
-27.5°	184.8	266.2	335.9	397.1	469.9	549.2	589.1	631.0	798.3	1158.9	1645.8
-30°	180.5	250.3	325.3	384.4	456.2	533.7	593.0	625.8	672.7	952.4	1349.8
-32.5°	171.5	233.7	307.8	370.5	438.1	515.6	589.0	625.7	665.7	748.7	1069.4
-35°	161.9	220.6	287.7	353.3	415.9	491.2	562.9	624.3	659.0	701.9	845.2
-37.5°	154.4	205.9	267.3	332.3	394.0	461.7	534.0	601.8	653.8	697.0	751.6
-40°	144.9	189.6	248.5	309.6	369.9	432.4	500.1	568.3	633.9	699.6	749.3
-42.5°	133.4	176.9	229.0	286.3	344.2	404.3	464.7	530.5	606.9	689.6	753.5
-45°	119.8	162.2	208.5	261.6	316.0	373.8	432.2	491.7	572.2	657.3	737.3
-47.5°	104.5	145.2	189.4	235.1	286.4	340.2	397.2	459.4	530.1	611.2	698.5
-50°	88.4	126.1	167.3	209.8	255.6	305.3	357.9	420.8	487.3	558.4	637.1
-52.5°	73.1	105.1	143.3	183.8	225.3	269.8	319.1	375.4	437.8	504.0	570.1
-55°	56.6	85.4	117.3	155.2	195.0	235.1	278.1	328.1	382.3	442.7	502.0
-57.5°	43.9	64.9	92.4	124.1	161.2	200.0	238.2	278.8	326.2	377.7	427.7
-60°	33.2	47.6	67.9	94.8	124.5	159.5	196.1	233.1	271.3	309.5	352.1
-62.5°	23.5	34.7	48.1	65.8	91.3	117.3	147.9	182.0	218.0	250.8	282.2
-65°	20.6	23.9	33.0	45.5	58.6	80.2	103.3	127.1	156.9	186.3	216.3
-67.5°	17.5	20.5	23.5	28.2	39.5	50.7	62.0	82.2	102.8	121.6	141.7
-70°	15.9	17.3	19.8	22.5	25.1	29.7	39.5	49.2	58.6	69.8	85.7
-72.5°	14.5	15.7	17.1	18.6	20.9	23.1	25.3	27.5	33.1	40.8	48.0
-75°	13.1	14.0	15.1	16.3	17.7	19.0	20.6	22.5	24.2	25.9	27.7
-77.5°	11.6	12.5	13.4	14.2	15.0	16.1	17.3	18.5	19.5	20.5	21.5
-80°	10.4	11.0	11.7	12.4	13.0	13.6	14.3	15.0	15.6	16.1	16.8
-82.5°	9.3	9.7	10.2	10.7	11.1	11.4	11.7	12.1	12.7	13.2	13.6
-85°	8.2	8.4	8.6	8.9	9.3	9.7	10.0	10.4	10.6	10.9	11.2
-87.5°	7.3	7.3	7.4	7.5	7.9	8.2	8.5	8.9	9.0	9.1	9.2
-90°	1.9	1.6	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	8.4	8.4	8.4	8.4	8.4	8.7	9.0	9.2	9.5	9.5	9.5
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°	1.4	1.4	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	2.3	2.1	1.9	1.6	1.2	1.1	1.1	1.1	1.1	1.1	1.1
75°	3.1	3.0	2.9	2.7	2.2	2.1	2.1	2.1	1.9	2.0	2.0
72.5°	6.4	6.4	6.0	5.5	4.8	4.4	4.3	4.1	3.8	3.7	3.6
70°	11.7	11.3	10.6	9.4	7.8	6.7	6.1	5.4	4.5	4.2	4.1
67.5°	16.8	15.0	13.6	11.9	9.8	8.1	7.1	6.2	5.4	4.9	4.7
65°	19.3	15.4	12.8	10.8	9.3	7.9	6.8	5.8	5.0	4.4	4.3
62.5°	17.8	12.9	10.2	8.5	7.2	6.2	5.4	4.7	4.0	3.6	3.7
60°	14.5	9.9	7.6	6.7	5.9	5.4	4.7	4.0	3.5	3.3	3.5
57.5°	11.1	7.9	6.2	5.8	5.3	4.5	4.1	3.9	3.8	3.9	4.0
55°	8.3	7.0	6.3	5.6	4.9	4.4	4.2	4.4	4.4	4.2	4.2
52.5°	7.1	6.5	5.8	5.1	5.0	5.0	5.2	5.0	4.9	4.9	5.0
50°	6.9	6.4	5.8	5.3	5.5	5.5	5.3	5.5	5.8	5.9	6.0
47.5°	7.5	7.0	7.4	6.2	6.5	7.3	7.3	7.5	8.4	8.8	8.9
45°	9.8	12.0	11.9	11.0	10.7	15.4	15.7	13.2	21.4	20.5	14.4
42.5°	18.2	19.3	19.3	24.2	32.7	37.3	49.5	68.8	64.4	50.0	30.3
40°	30.1	28.6	34.8	44.7	54.7	66.4	83.0	115.9	110.4	88.3	97.1
37.5°	51.9	51.9	54.9	68.6	72.4	62.4	88.6	85.6	68.2	95.9	101.5
35°	94.9	104.4	88.6	109.8	112.7	103.7	108.7	120.2	104.0	124.4	133.1
32.5°	170.3	187.9	190.2	195.4	211.1	223.1	219.8	247.8	249.2	275.7	311.9
30°	272.2	308.7	346.5	352.4	372.0	403.7	419.6	476.1	535.9	575.1	647.1
27.5°	478.5	487.5	563.5	623.5	599.6	647.1	766.0	834.9	949.3	1017.4	1089.8
25°	768.5	793.3	900.5	1010.9	1025.5	1068.9	1241.6	1340.3	1458.1	1526.9	1676.3
22.5°	1136.6	1243.6	1361.5	1506.6	1566.2	1668.1	1836.1	1980.6	2226.2	2530.0	3184.6
20°	1546.6	1707.4	1865.9	1993.4	2116.2	2278.4	2482.6	3180.3	4007.0	6497.7	8216.2
17.5°	1897.4	2160.8	2312.3	2435.8	2589.9	2902.7	3713.6	5769.5	9734.1	15279.4	20355.3
15°	2170.3	2416.2	2659.9	2814.7	3055.5	3747.9	5397.8	10439.9	18655.0	28015.8	39343.4
12.5°	2386.6	2590.8	2795.5	3023.2	3468.2	4817.7	9015.5	16801.9	28748.2	43879.4	63961.2
10°	2503.4	2707.7	2905.3	3229.4	4053.3	6510.5	12393.5	22662.0	41411.6	65043.3	90636.0
7.5°	2502.6	2751.7	2995.9	3391.3	4649.5	8533.3	16372.8	30268.1	52445.6	82073.0	115021.3
5°	2501.2	2802.6	3058.5	3504.8	5022.4	9913.8	18842.8	34480.4	61430.1	94864.7	130144.2
2.5°	2525.5	2857.2	3098.9	3579.5	5195.2	10654.5	20212.9	37807.5	67711.4	102145.5	139844.5
0°	2582.6	2905.8	3122.7	3587.0	5174.6	10807.3	20372.2	38612.4	70128.8	106711.9	145397.6
-2.5°	2677.1	2898.8	3109.3	3556.7	5105.6	10492.0	20000.0	37910.3	67327.7	101630.5	139071.0
-5°	2620.2	2799.3	2985.4	3388.0	4767.0	9386.9	18015.6	33923.5	59049.2	89853.4	121926.3
-7.5°	2474.2	2655.8	2828.2	3175.3	4278.9	7746.4	14736.9	27251.6	46876.4	70866.5	96057.8
-10°	2341.2	2504.0	2666.3	2944.0	3656.1	5681.7	10545.6	19286.4	34225.2	52309.5	71560.8
-12.5°	2238.7	2375.5	2500.5	2686.6	3082.6	4214.0	7672.0	14159.4	22982.8	34496.2	48585.4
-15°	2148.6	2254.9	2346.9	2525.9	2820.3	3411.4	4780.5	8486.7	13984.5	21239.2	28932.4
-17.5°	2065.2	2167.1	2275.8	2412.2	2597.6	2881.3	3667.8	5226.7	8398.5	13137.5	17674.7
-20°	2022.6	2147.3	2240.7	2347.4	2504.7	2722.8	2999.1	3772.5	5079.8	7992.2	10942.3



REPORT NUMBER: P731334 (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°	1988.9	2107.9	2214.4	2338.3	2499.8	2671.9	2821.0	3057.3	3674.1	4588.7	6111.7
-25°	1947.9	2065.2	2222.8	2403.1	2541.9	2672.0	2747.7	2796.9	3061.6	3323.0	3906.1
-27.5°	1870.1	2056.0	2287.5	2482.1	2631.4	2712.2	2773.1	2813.0	2971.7	3127.6	3297.2
-30°	1800.6	2085.5	2335.4	2561.8	2691.8	2790.4	2869.9	2941.8	3051.5	3183.5	3245.1
-32.5°	1553.8	2077.5	2355.5	2563.8	2697.4	2813.8	2936.3	3002.7	3099.3	3196.0	3274.0
-35°	1220.5	1752.7	2333.8	2453.1	2585.7	2737.5	2884.6	2979.1	3077.5	3177.0	3268.8
-37.5°	914.2	1312.3	1783.5	2214.6	2392.5	2547.9	2728.5	2874.1	3002.8	3111.4	3216.0
-40°	801.3	909.3	1256.0	1598.3	1961.9	2295.6	2474.1	2669.1	2862.8	2996.9	3116.3
-42.5°	800.1	841.4	876.9	1106.3	1386.0	1673.0	1976.7	2259.7	2574.8	2795.7	2963.3
-45°	805.2	837.4	870.4	903.7	934.2	1145.3	1366.8	1591.3	1920.1	2246.6	2528.9
-47.5°	766.9	829.0	868.5	900.4	930.6	960.3	989.2	1049.8	1260.0	1482.5	1685.9
-50°	706.1	770.1	828.9	888.0	922.6	951.9	983.4	1018.0	1051.6	1085.8	1108.6
-52.5°	631.6	694.6	755.8	811.8	862.2	911.8	961.4	1001.6	1037.5	1072.5	1089.9
-55°	560.3	617.0	672.8	722.0	771.2	820.1	869.3	918.4	967.1	1014.9	1039.3
-57.5°	481.1	536.2	588.7	630.2	672.0	713.7	758.4	804.4	848.8	889.5	910.9
-60°	397.2	444.4	489.3	529.6	568.7	606.4	644.3	682.8	720.3	753.4	772.8
-62.5°	313.7	350.1	387.6	422.7	456.0	488.1	522.7	555.8	587.1	613.4	631.7
-65°	245.6	272.8	296.8	321.1	345.8	374.0	402.5	429.5	454.8	475.7	491.3
-67.5°	166.8	191.8	213.8	234.4	253.4	272.6	293.1	312.7	331.3	346.7	358.9
-70°	100.8	114.9	127.4	141.4	157.9	174.1	190.3	205.2	218.8	230.0	238.9
-72.5°	54.8	60.8	67.2	77.2	86.4	95.6	104.7	113.0	120.6	127.2	133.1
-75°	29.4	32.0	36.6	40.8	44.5	48.2	51.9	55.2	58.2	60.6	62.6
-77.5°	22.7	24.0	25.1	26.1	27.0	27.8	28.6	29.4	30.1	30.8	31.4
-80°	17.5	18.3	19.2	20.0	20.7	21.3	21.8	22.2	22.5	22.9	23.3
-82.5°	14.0	14.4	14.8	15.2	15.6	16.0	16.5	16.9	17.3	17.5	17.7
-85°	11.5	11.6	11.8	11.9	12.0	12.2	12.3	12.4	12.5	12.5	12.5
-87.5°	9.3	9.3	9.4	9.4	9.4	9.7	9.9	10.2	10.5	10.5	10.5
-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: P731334 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.2
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°	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9	2.1
72.5°	3.4	3.2	3.2	3.2	3.2	3.2	3.4	3.6	3.7	3.8	4.1
70°	4.1	4.2	4.2	4.2	4.2	4.2	4.1	4.1	4.2	4.5	5.4
67.5°	4.5	4.2	3.7	3.2	3.7	4.2	4.5	4.7	4.9	5.4	6.2
65°	4.2	4.2	3.8	3.2	3.8	4.2	4.2	4.3	4.4	5.0	5.8
62.5°	3.9	4.1	3.8	3.2	3.8	4.1	3.9	3.7	3.6	4.0	4.7
60°	3.8	4.1	4.2	4.2	4.2	4.1	3.8	3.5	3.3	3.5	4.0
57.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.0	3.9	3.8	3.9
55°	4.2	4.2	4.6	5.3	4.6	4.2	4.2	4.2	4.2	4.4	4.4
52.5°	5.1	5.2	5.3	5.3	5.3	5.2	5.1	5.0	4.9	4.9	5.0
50°	6.1	6.2	6.3	6.3	6.3	6.2	6.1	6.0	5.9	5.8	5.5
47.5°	8.9	8.6	8.4	8.4	8.4	8.6	8.9	8.9	8.8	8.4	7.5
45°	14.6	14.6	14.6	14.7	14.6	14.6	14.6	14.4	20.5	21.4	13.2
42.5°	29.5	26.5	24.3	25.3	24.3	26.5	29.5	30.3	50.0	64.4	68.8
40°	86.6	59.5	34.4	34.7	34.4	59.5	86.6	97.1	88.3	110.4	115.9
37.5°	80.9	65.3	58.9	57.9	58.9	65.3	80.9	101.5	95.9	68.2	85.6
35°	133.6	132.8	126.9	126.3	126.9	132.8	133.6	133.1	124.4	104.0	120.2
32.5°	325.9	339.3	334.9	329.5	334.9	339.3	325.9	311.9	275.7	249.2	247.8
30°	681.2	710.9	704.9	721.2	704.9	710.9	681.2	647.1	575.1	535.9	476.1
27.5°	1129.9	1149.3	1129.3	1123.4	1129.3	1149.3	1129.9	1089.8	1017.4	949.3	834.9
25°	1778.4	1816.0	1833.3	1868.8	1833.3	1816.0	1778.4	1676.3	1526.9	1458.1	1340.3
22.5°	3998.5	4231.4	4111.8	4005.0	4111.8	4231.4	3998.5	3184.6	2530.0	2226.2	1980.6
20°	11734.4	13806.8	13654.1	13381.4	13654.1	13806.8	11734.4	8216.2	6497.7	4007.0	3180.3
17.5°	28295.0	34662.1	38627.3	40713.9	38627.3	34662.1	28295.0	20355.3	15279.4	9734.1	5769.5
15°	52786.7	63496.1	69784.2	73350.5	69784.2	63496.1	52786.7	39343.4	28015.8	18655.0	10439.9
12.5°	83267.3	100053.0	111188.6	113317.4	111188.6	100053.0	83267.3	63961.2	43879.4	28748.2	16801.9
10°	116830.7	138329.2	156059.5	162526.0	156059.5	138329.2	116830.7	90636.0	65043.3	41411.6	22662.0
7.5°	145494.9	172929.5	196472.8	204846.6	196472.8	172929.5	145494.9	115021.3	82073.0	52445.6	30268.1
5°	166338.4	202731.4	224042.0	229792.2	224042.0	202731.4	166338.4	130144.2	94864.7	61430.1	34480.4
2.5°	183305.0	217851.0	240698.9	252479.1	240698.9	217851.0	183305.0	139844.5	102145.5	67711.4	37807.5
0°	190764.9	223963.8	248605.2	265888.4	248605.2	223963.8	190764.9	145397.6	106711.9	70128.8	38612.4
-2.5°	181597.3	215547.7	233076.4	240651.6	233076.4	215547.7	181597.3	139071.0	101630.5	67327.7	37910.3
-5°	154395.7	186400.1	204017.7	209614.8	204017.7	186400.1	154395.7	121926.3	89853.4	59049.2	33923.5
-7.5°	120435.0	142607.7	157807.6	163105.1	157807.6	142607.7	120435.0	96057.8	70866.5	46876.4	27251.6
-10°	90685.0	106586.6	114732.0	117485.0	114732.0	106586.6	90685.0	71560.8	52309.5	34225.2	19286.4
-12.5°	62269.2	74240.0	79505.3	82964.3	79505.3	74240.0	62269.2	48585.4	34496.2	22982.8	14159.4
-15°	38303.5	46107.5	50253.5	52620.3	50253.5	46107.5	38303.5	28932.4	21239.2	13984.5	8486.7
-17.5°	23271.4	27513.4	30261.0	31505.9	30261.0	27513.4	23271.4	17674.7	13137.5	8398.5	5226.7
-20°	14447.5	17271.9	18876.2	19796.3	18876.2	17271.9	14447.5	10942.3	7992.2	5079.8	3772.5



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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°	8116.1	9665.9	10534.9	10837.8	10534.9	9665.9	8116.1	6111.7	4588.7	3674.1	3057.3
-25°	4513.3	4907.7	5080.4	5121.0	5080.4	4907.7	4513.3	3906.1	3323.0	3061.6	2796.9
-27.5°	3444.3	3528.4	3581.7	3597.5	3581.7	3528.4	3444.3	3297.2	3127.6	2971.7	2813.0
-30°	3303.8	3312.6	3327.2	3324.8	3327.2	3312.6	3303.8	3245.1	3183.5	3051.5	2941.8
-32.5°	3328.9	3332.1	3335.1	3330.1	3335.1	3332.1	3328.9	3274.0	3196.0	3099.3	3002.7
-35°	3319.0	3328.5	3336.0	3339.6	3336.0	3328.5	3319.0	3268.8	3177.0	3077.5	2979.1
-37.5°	3257.6	3270.7	3277.1	3271.1	3277.1	3270.7	3257.6	3216.0	3111.4	3002.8	2874.1
-40°	3144.9	3154.4	3155.0	3150.1	3155.0	3154.4	3144.9	3116.3	2996.9	2862.8	2669.1
-42.5°	3014.3	3047.6	3063.2	3063.7	3063.2	3047.6	3014.3	2963.3	2795.7	2574.8	2259.7
-45°	2707.8	2846.6	2928.9	2949.0	2928.9	2846.6	2707.8	2528.9	2246.6	1920.1	1591.3
-47.5°	1848.4	1986.3	2076.0	2109.9	2076.0	1986.3	1848.4	1685.9	1482.5	1260.0	1049.8
-50°	1125.1	1141.8	1149.2	1147.6	1149.2	1141.8	1125.1	1108.6	1085.8	1051.6	1018.0
-52.5°	1103.3	1116.5	1124.7	1128.6	1124.7	1116.5	1103.3	1089.9	1072.5	1037.5	1001.6
-55°	1059.4	1076.0	1084.5	1086.5	1084.5	1076.0	1059.4	1039.3	1014.9	967.1	918.4
-57.5°	929.0	943.4	951.6	954.9	951.6	943.4	929.0	910.9	889.5	848.8	804.4
-60°	788.5	800.6	805.9	806.5	805.9	800.6	788.5	772.8	753.4	720.3	682.8
-62.5°	646.9	658.9	662.9	662.2	662.9	658.9	646.9	631.7	613.4	587.1	555.8
-65°	504.4	514.8	516.9	514.8	516.9	514.8	504.4	491.3	475.7	454.8	429.5
-67.5°	369.1	377.2	379.6	379.0	379.6	377.2	369.1	358.9	346.7	331.3	312.7
-70°	245.9	251.2	251.0	248.5	251.0	251.2	245.9	238.9	230.0	218.8	205.2
-72.5°	138.0	141.9	145.2	147.4	145.2	141.9	138.0	133.1	127.2	120.6	113.0
-75°	64.3	65.5	67.1	68.4	67.1	65.5	64.3	62.6	60.6	58.2	55.2
-77.5°	32.0	32.4	33.1	33.7	33.1	32.4	32.0	31.4	30.8	30.1	29.4
-80°	23.7	24.1	24.2	24.2	24.2	24.1	23.7	23.3	22.9	22.5	22.2
-82.5°	17.8	17.8	17.9	17.9	17.9	17.8	17.8	17.7	17.5	17.3	16.9
-85°	12.6	12.6	13.1	13.7	13.1	12.6	12.6	12.5	12.5	12.5	12.4
-87.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.2
-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°	9.0	8.7	8.4	8.4	8.4	8.4	8.4	8.2	7.9	7.7	7.4
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	1.2
80°	1.1	1.1	1.1	1.3	1.3	1.4	1.4	1.6	1.7	1.8	1.9
77.5°	1.1	1.1	1.2	1.6	1.9	2.1	2.3	2.4	2.5	2.6	2.7
75°	2.1	2.1	2.2	2.7	2.9	3.0	3.1	3.0	3.0	3.1	3.2
72.5°	4.3	4.4	4.8	5.5	6.0	6.4	6.4	6.0	5.2	4.1	3.2
70°	6.1	6.7	7.8	9.4	10.6	11.3	11.7	11.4	10.3	9.2	7.0
67.5°	7.1	8.1	9.8	11.9	13.6	15.0	16.8	18.4	18.6	17.4	12.5
65°	6.8	7.9	9.3	10.8	12.8	15.4	19.3	21.8	23.3	24.0	19.7
62.5°	5.4	6.2	7.2	8.5	10.2	12.9	17.8	22.0	25.5	26.3	22.2
60°	4.7	5.4	5.9	6.7	7.6	9.9	14.5	19.9	26.0	25.4	22.7
57.5°	4.1	4.5	5.3	5.8	6.2	7.9	11.1	15.5	21.2	21.7	20.9
55°	4.2	4.4	4.9	5.6	6.3	7.0	8.3	11.0	15.0	16.2	16.5
52.5°	5.2	5.0	5.0	5.1	5.8	6.5	7.1	8.6	9.9	11.6	12.6
50°	5.3	5.5	5.5	5.3	5.8	6.4	6.9	7.4	8.1	8.9	9.6
47.5°	7.3	7.3	6.5	6.2	7.4	7.0	7.5	7.9	8.3	8.1	8.5
45°	15.7	15.4	10.7	11.0	11.9	12.0	9.8	10.5	10.1	9.5	8.4
42.5°	49.5	37.3	32.7	24.2	19.3	19.3	18.2	16.7	15.2	12.6	12.0
40°	83.0	66.4	54.7	44.7	34.8	28.6	30.1	25.6	22.9	19.5	19.3
37.5°	88.6	62.4	72.4	68.6	54.9	51.9	51.9	43.2	31.8	38.5	38.0
35°	108.7	103.7	112.7	109.8	88.6	104.4	94.9	74.2	62.5	69.5	65.2
32.5°	219.8	223.1	211.1	195.4	190.2	187.9	170.3	131.1	124.7	119.8	105.3
30°	419.6	403.7	372.0	352.4	346.5	308.7	272.2	275.0	237.5	183.9	157.2
27.5°	766.0	647.1	599.6	623.5	563.5	487.5	478.5	485.5	391.7	296.8	226.8
25°	1241.6	1068.9	1025.5	1010.9	900.5	793.3	768.5	736.9	629.1	445.8	313.3
22.5°	1836.1	1668.1	1566.2	1506.6	1361.5	1243.6	1136.6	1020.0	910.8	667.3	464.7
20°	2482.6	2278.4	2116.2	1993.4	1865.9	1707.4	1546.6	1345.9	1174.5	943.2	648.4
17.5°	3713.6	2902.7	2589.9	2435.8	2312.3	2160.8	1897.4	1637.5	1435.8	1232.4	851.0
15°	5397.8	3747.9	3055.5	2814.7	2659.9	2416.2	2170.3	1893.5	1692.2	1493.8	1080.4
12.5°	9015.5	4817.7	3468.2	3023.2	2795.5	2590.8	2386.6	2136.0	1894.5	1633.5	1244.0
10°	12393.5	6510.5	4053.3	3229.4	2905.3	2707.7	2503.4	2213.3	1939.7	1707.5	1383.0
7.5°	16372.8	8533.3	4649.5	3391.3	2995.9	2751.7	2502.6	2205.5	1962.4	1757.7	1497.7
5°	18842.8	9913.8	5022.4	3504.8	3058.5	2802.6	2501.2	2164.7	1965.9	1788.3	1588.3
2.5°	20212.9	10654.5	5195.2	3579.5	3098.9	2857.2	2525.5	2145.2	1965.8	1794.3	1616.2
0°	20372.2	10807.3	5174.6	3587.0	3122.7	2905.8	2582.6	2153.0	1961.4	1789.8	1622.4
-2.5°	20000.0	10492.0	5105.6	3556.7	3109.3	2898.8	2677.1	2237.8	2008.9	1810.0	1615.2
-5°	18015.6	9386.9	4767.0	3388.0	2985.4	2799.3	2620.2	2251.8	2009.8	1807.9	1586.4
-7.5°	14736.9	7746.4	4278.9	3175.3	2828.2	2655.8	2474.2	2180.7	1927.0	1736.9	1494.3
-10°	10545.6	5681.7	3656.1	2944.0	2666.3	2504.0	2341.2	2082.5	1836.4	1658.3	1384.9
-12.5°	7672.0	4214.0	3082.6	2686.6	2500.5	2375.5	2238.7	1970.5	1739.3	1573.1	1260.7
-15°	4780.5	3411.4	2820.3	2525.9	2346.9	2254.9	2148.6	1909.8	1720.8	1509.8	1123.6
-17.5°	3667.8	2881.3	2597.6	2412.2	2275.8	2167.1	2065.2	1896.6	1713.2	1457.4	1002.5
-20°	2999.1	2722.8	2504.7	2347.4	2240.7	2147.3	2022.6	1891.4	1686.2	1318.0	885.2



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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°	2821.0	2671.9	2499.8	2338.3	2214.4	2107.9	1988.9	1856.1	1641.4	1134.0	756.7
-25°	2747.7	2672.0	2541.9	2403.1	2222.8	2065.2	1947.9	1773.5	1416.1	952.1	638.1
-27.5°	2773.1	2712.2	2631.4	2482.1	2287.5	2056.0	1870.1	1645.8	1158.9	798.3	631.0
-30°	2869.9	2790.4	2691.8	2561.8	2335.4	2085.5	1800.6	1349.8	952.4	672.7	625.8
-32.5°	2936.3	2813.8	2697.4	2563.8	2355.5	2077.5	1553.8	1069.4	748.7	665.7	625.7
-35°	2884.6	2737.5	2585.7	2453.1	2333.8	1752.7	1220.5	845.2	701.9	659.0	624.3
-37.5°	2728.5	2547.9	2392.5	2214.6	1783.5	1312.3	914.2	751.6	697.0	653.8	601.8
-40°	2474.1	2295.6	1961.9	1598.3	1256.0	909.3	801.3	749.3	699.6	633.9	568.3
-42.5°	1976.7	1673.0	1386.0	1106.3	876.9	841.4	800.1	753.5	689.6	606.9	530.5
-45°	1366.8	1145.3	934.2	903.7	870.4	837.4	805.2	737.3	657.3	572.2	491.7
-47.5°	989.2	960.3	930.6	900.4	868.5	829.0	766.9	698.5	611.2	530.1	459.4
-50°	983.4	951.9	922.6	888.0	828.9	770.1	706.1	637.1	558.4	487.3	420.8
-52.5°	961.4	911.8	862.2	811.8	755.8	694.6	631.6	570.1	504.0	437.8	375.4
-55°	869.3	820.1	771.2	722.0	672.8	617.0	560.3	502.0	442.7	382.3	328.1
-57.5°	758.4	713.7	672.0	630.2	588.7	536.2	481.1	427.7	377.7	326.2	278.8
-60°	644.3	606.4	568.7	529.6	489.3	444.4	397.2	352.1	309.5	271.3	233.1
-62.5°	522.7	488.1	456.0	422.7	387.6	350.1	313.7	282.2	250.8	218.0	182.0
-65°	402.5	374.0	345.8	321.1	296.8	272.8	245.6	216.3	186.3	156.9	127.1
-67.5°	293.1	272.6	253.4	234.4	213.8	191.8	166.8	141.7	121.6	102.8	82.2
-70°	190.3	174.1	157.9	141.4	127.4	114.9	100.8	85.7	69.8	58.6	49.2
-72.5°	104.7	95.6	86.4	77.2	67.2	60.8	54.8	48.0	40.8	33.1	27.5
-75°	51.9	48.2	44.5	40.8	36.6	32.0	29.4	27.7	25.9	24.2	22.5
-77.5°	28.6	27.8	27.0	26.1	25.1	24.0	22.7	21.5	20.5	19.5	18.5
-80°	21.8	21.3	20.7	20.0	19.2	18.3	17.5	16.8	16.1	15.6	15.0
-82.5°	16.5	16.0	15.6	15.2	14.8	14.4	14.0	13.6	13.2	12.7	12.1
-85°	12.3	12.2	12.0	11.9	11.8	11.6	11.5	11.2	10.9	10.6	10.4
-87.5°	9.9	9.7	9.4	9.4	9.4	9.3	9.3	9.2	9.1	9.0	8.9
-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°	7.1	6.9	6.6	6.3	6.3	6.3	6.3	6.3	6.1	5.8	5.6
87.5°	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.3
85°	1.4	1.6	1.9	2.1	2.1	2.1	2.1	2.1	2.3	2.5	2.6
82.5°	1.4	1.6	1.9	2.1	2.3	2.4	2.4	2.4	2.5	2.7	2.9
80°	1.9	1.9	2.0	2.1	2.4	2.7	2.8	2.9	2.8	2.9	3.0
77.5°	2.5	2.3	2.1	2.2	2.4	2.7	3.0	3.2	3.1	3.0	3.1
75°	3.2	3.0	2.8	2.6	2.6	2.7	3.0	3.2	3.2	3.2	3.2
72.5°	3.2	3.2	3.2	3.2	3.0	3.0	3.1	3.2	3.2	3.2	3.2
70°	4.9	3.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	8.0	5.7	4.1	3.3	3.2	3.2	3.2	3.3	3.3	3.2	3.2
65°	14.0	9.1	5.2	4.3	3.6	3.2	3.2	3.4	3.5	3.4	3.2
62.5°	18.1	13.6	9.0	5.9	4.3	3.6	3.2	3.5	3.7	3.7	3.4
60°	20.0	15.8	12.4	9.0	5.9	4.1	3.6	3.5	3.7	3.9	3.6
57.5°	18.5	16.9	14.4	11.5	8.3	5.4	4.1	3.8	3.8	4.0	3.9
55°	15.8	14.8	15.4	13.3	10.2	7.1	5.0	4.2	3.9	4.0	4.2
52.5°	12.4	13.3	14.7	14.4	11.8	8.7	6.4	4.7	4.3	4.1	4.3
50°	9.9	11.9	14.1	14.7	13.2	10.4	7.7	5.7	4.7	4.2	4.4
47.5°	9.2	11.1	13.0	15.0	14.3	12.0	9.1	6.7	5.1	4.6	4.4
45°	10.1	10.9	12.4	14.2	15.5	13.2	10.5	7.6	5.8	5.0	4.5
42.5°	12.4	12.6	12.6	13.6	15.3	14.3	11.9	8.7	6.5	5.4	4.7
40°	17.8	15.9	13.8	14.9	15.2	15.3	12.8	9.9	7.0	5.8	5.1
37.5°	24.8	21.5	17.7	18.7	16.6	15.7	13.7	11.0	7.9	6.5	5.4
35°	47.9	29.3	30.2	27.8	21.8	16.5	14.5	11.9	9.1	7.0	5.8
32.5°	77.7	56.5	55.6	42.9	28.9	17.7	15.4	13.2	10.4	7.6	6.2
30°	127.6	117.4	92.5	62.0	39.9	24.3	17.1	14.6	11.7	8.2	6.6
27.5°	206.1	190.0	142.8	96.0	58.2	32.9	20.1	16.0	13.0	8.9	7.1
25°	285.6	265.0	212.7	141.1	79.0	51.1	23.9	17.6	14.3	9.9	7.5
22.5°	365.0	338.1	290.1	193.1	110.6	74.5	33.4	20.5	15.5	11.0	8.0
20°	440.8	410.7	367.9	236.5	149.0	102.3	50.5	23.8	16.8	12.0	8.3
17.5°	528.9	466.0	401.6	282.2	187.2	130.3	70.2	27.3	18.1	13.0	8.7
15°	664.4	499.1	432.1	322.9	220.2	158.0	92.0	31.1	19.4	13.9	9.1
12.5°	787.6	530.0	462.2	358.7	248.6	185.4	115.0	34.9	20.6	14.7	9.4
10°	902.7	558.6	491.4	389.5	272.8	212.1	138.6	38.8	22.2	15.3	9.6
7.5°	1007.1	584.8	519.1	415.7	291.7	229.6	154.4	42.7	23.8	15.8	9.9
5°	1089.3	605.6	541.9	434.3	298.9	236.1	167.0	46.4	25.5	16.2	10.1
2.5°	1116.5	618.8	560.0	448.7	304.6	240.6	177.0	49.7	27.0	16.6	10.3
0°	1122.3	629.6	574.8	459.0	308.5	243.2	184.2	52.6	28.4	16.8	10.5
-2.5°	1116.8	630.8	575.5	467.8	320.6	250.7	190.7	65.6	37.4	21.9	13.0
-5°	1091.4	630.1	573.2	472.3	330.5	256.7	194.7	77.9	46.0	26.8	15.3
-7.5°	1023.9	621.5	565.4	471.7	337.8	261.2	196.7	89.2	54.0	31.4	17.5
-10°	936.8	607.2	550.6	461.7	342.7	266.8	197.3	99.5	61.2	35.5	19.5
-12.5°	838.3	590.9	535.9	450.5	345.7	273.2	199.1	108.2	67.5	39.0	21.2
-15°	730.8	572.7	522.3	438.8	347.3	278.1	199.0	115.2	72.8	42.4	22.5
-17.5°	620.2	552.5	510.4	427.6	347.4	281.6	197.2	120.6	77.2	45.8	24.1
-20°	599.1	544.0	499.5	417.7	346.4	283.6	193.7	124.1	80.7	48.4	25.6



REPORT NUMBER: P731334 (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°	594.0	546.7	490.9	412.7	345.2	284.1	188.8	125.6	83.1	50.0	26.6
-25°	588.7	550.0	481.7	406.8	343.8	275.8	186.2	124.9	84.5	50.6	26.8
-27.5°	589.1	549.2	469.9	397.1	335.9	266.2	184.8	125.8	85.0	50.2	26.4
-30°	593.0	533.7	456.2	384.4	325.3	250.3	180.5	125.6	84.4	49.4	25.1
-32.5°	589.0	515.6	438.1	370.5	307.8	233.7	171.5	123.9	82.3	48.0	24.4
-35°	562.9	491.2	415.9	353.3	287.7	220.6	161.9	120.8	78.7	45.4	23.4
-37.5°	534.0	461.7	394.0	332.3	267.3	205.9	154.4	113.3	73.5	41.8	22.0
-40°	500.1	432.4	369.9	309.6	248.5	189.6	144.9	104.1	67.9	36.9	20.0
-42.5°	464.7	404.3	344.2	286.3	229.0	176.9	133.4	93.4	60.2	33.1	17.4
-45°	432.2	373.8	316.0	261.6	208.5	162.2	119.8	81.6	51.3	29.5	15.5
-47.5°	397.2	340.2	286.4	235.1	189.4	145.2	104.5	70.4	41.5	25.2	14.8
-50°	357.9	305.3	255.6	209.8	167.3	126.1	88.4	58.1	35.5	20.0	14.1
-52.5°	319.1	269.8	225.3	183.8	143.3	105.1	73.1	45.3	29.0	17.5	13.2
-55°	278.1	235.1	195.0	155.2	117.3	85.4	56.6	37.2	22.0	16.2	12.3
-57.5°	238.2	200.0	161.2	124.1	92.4	64.9	43.9	28.4	19.0	14.8	12.0
-60°	196.1	159.5	124.5	94.8	67.9	47.6	33.2	21.5	17.2	13.5	11.6
-62.5°	147.9	117.3	91.3	65.8	48.1	34.7	23.5	19.2	15.2	12.9	11.1
-65°	103.3	80.2	58.6	45.5	33.0	23.9	20.6	16.7	14.2	12.3	10.6
-67.5°	62.0	50.7	39.5	28.2	23.5	20.5	17.5	15.3	13.4	11.7	10.1
-70°	39.5	29.7	25.1	22.5	19.8	17.3	15.9	14.2	12.5	11.0	9.5
-72.5°	25.3	23.1	20.9	18.6	17.1	15.7	14.5	13.1	11.6	10.2	8.9
-75°	20.6	19.0	17.7	16.3	15.1	14.0	13.1	11.9	10.6	9.4	8.4
-77.5°	17.3	16.1	15.0	14.2	13.4	12.5	11.6	10.7	9.7	8.7	7.8
-80°	14.3	13.6	13.0	12.4	11.7	11.0	10.4	9.8	8.9	8.1	7.2
-82.5°	11.7	11.4	11.1	10.7	10.2	9.7	9.3	8.9	8.1	7.4	6.7
-85°	10.0	9.7	9.3	8.9	8.6	8.4	8.2	8.1	7.4	6.8	6.3
-87.5°	8.5	8.2	7.9	7.5	7.4	7.3	7.3	7.2	6.7	6.3	5.9
-90°	1.1	1.1	1.1	1.1	1.4	1.6	1.9	2.1	2.1	2.1	2.1



REPORT NUMBER: P731334 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.3	5.0	4.8	4.5	4.2	3.7	3.2
87.5°	2.4	2.6	2.7	3.0	3.2	3.2	3.2
85°	2.7	2.7	2.8	3.0	3.2	3.2	3.2
82.5°	3.0	2.9	2.9	3.0	3.2	3.3	3.2
80°	3.2	3.1	3.0	3.1	3.2	3.3	3.2
77.5°	3.2	3.2	3.1	3.1	3.2	3.3	3.2
75°	3.2	3.3	3.2	3.1	3.2	3.3	3.2
72.5°	3.3	3.4	3.3	3.2	3.2	3.4	3.2
70°	3.3	3.4	3.4	3.2	3.2	3.4	3.2
67.5°	3.3	3.5	3.5	3.3	3.3	3.4	3.2
65°	3.3	3.6	3.6	3.4	3.3	3.4	3.2
62.5°	3.4	3.6	3.7	3.5	3.3	3.5	3.2
60°	3.4	3.6	3.8	3.6	3.3	3.5	3.2
57.5°	3.6	3.6	3.9	3.7	3.4	3.5	3.2
55°	3.9	3.7	3.9	3.8	3.5	3.5	3.2
52.5°	4.1	3.7	3.9	3.9	3.6	3.6	3.2
50°	4.4	3.9	3.9	4.1	3.7	3.6	3.2
47.5°	4.6	4.2	4.0	4.1	3.7	3.6	3.2
45°	4.7	4.4	4.0	4.2	3.8	3.7	3.2
42.5°	4.7	4.6	4.0	4.2	3.8	3.7	3.2
40°	4.8	4.8	4.1	4.2	3.9	3.7	3.2
37.5°	4.8	5.0	4.3	4.2	3.9	3.8	3.2
35°	4.9	5.1	4.4	4.3	4.0	3.8	3.2
32.5°	5.0	5.1	4.6	4.3	4.0	3.8	3.2
30°	5.3	5.2	4.7	4.4	4.1	3.8	3.2
27.5°	5.7	5.2	4.8	4.4	4.1	3.9	3.2
25°	6.0	5.3	4.9	4.5	4.1	3.9	3.2
22.5°	6.3	5.3	5.0	4.6	4.1	3.9	3.2
20°	6.6	5.4	5.1	4.6	4.2	4.0	3.2
17.5°	6.9	5.5	5.2	4.7	4.2	4.0	3.2
15°	7.2	5.6	5.2	4.8	4.2	4.0	3.2
12.5°	7.4	5.7	5.3	4.9	4.2	4.1	3.2
10°	7.7	5.8	5.3	5.0	4.2	4.1	3.2
7.5°	7.9	5.9	5.3	5.1	4.2	4.1	3.2
5°	8.1	6.1	5.3	5.1	4.2	4.2	3.2
2.5°	8.3	6.2	5.3	5.2	4.2	4.2	3.2
0°	8.4	6.3	5.3	5.3	4.2	4.2	3.2
-2.5°	9.2	6.6	5.5	5.4	4.2	4.2	3.2
-5°	10.0	7.0	5.7	5.4	4.3	4.2	3.2
-7.5°	10.7	7.3	5.8	5.5	4.3	4.3	3.2
-10°	11.4	7.6	6.0	5.5	4.4	4.3	3.2
-12.5°	12.0	7.9	6.2	5.6	4.4	4.3	3.2
-15°	12.4	8.1	6.3	5.6	4.5	4.3	3.2
-17.5°	12.8	8.3	6.4	5.6	4.5	4.3	3.2
-20°	13.2	8.5	6.6	5.6	4.6	4.3	3.2



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-2S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	13.7	8.6	6.7	5.6	4.6	4.3	3.2
-25°	13.9	8.7	6.7	5.6	4.7	4.3	3.2
-27.5°	13.8	8.9	6.8	5.6	4.7	4.3	3.2
-30°	13.4	8.9	6.8	5.6	4.8	4.3	3.2
-32.5°	12.6	8.9	6.9	5.6	4.8	4.3	3.2
-35°	12.3	8.8	6.9	5.6	4.8	4.3	3.2
-37.5°	12.2	8.7	7.0	5.6	4.9	4.3	3.2
-40°	12.0	8.8	7.0	5.6	4.9	4.3	3.2
-42.5°	11.7	8.8	7.0	5.5	4.9	4.3	3.2
-45°	11.2	8.7	7.0	5.5	5.0	4.3	3.2
-47.5°	10.7	8.7	6.9	5.5	5.0	4.3	3.2
-50°	10.5	8.6	6.9	5.5	5.0	4.3	3.2
-52.5°	10.4	8.4	6.8	5.6	5.1	4.2	3.2
-55°	10.2	8.3	6.7	5.6	5.1	4.2	3.2
-57.5°	9.9	8.1	6.6	5.6	5.1	4.2	3.2
-60°	9.6	7.9	6.4	5.6	5.2	4.2	3.2
-62.5°	9.3	7.7	6.4	5.6	5.1	4.1	3.2
-65°	9.0	7.4	6.3	5.6	5.0	4.1	3.2
-67.5°	8.6	7.2	6.2	5.6	5.0	4.1	3.2
-70°	8.2	7.0	6.1	5.5	4.9	4.0	3.2
-72.5°	7.8	6.7	5.9	5.4	4.8	4.0	3.2
-75°	7.3	6.4	5.8	5.3	4.7	4.0	3.2
-77.5°	6.8	6.1	5.6	5.2	4.7	3.9	3.2
-80°	6.3	5.9	5.5	5.0	4.6	3.9	3.2
-82.5°	6.1	5.7	5.3	4.9	4.5	3.8	3.2
-85°	5.8	5.5	5.1	4.8	4.4	3.8	3.2
-87.5°	5.6	5.2	4.9	4.6	4.3	3.7	3.2
-90°	2.1	2.4	2.7	2.9	3.2	3.2	3.2

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

