

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: P731314 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-3S-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731314 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-20)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-70-3S-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

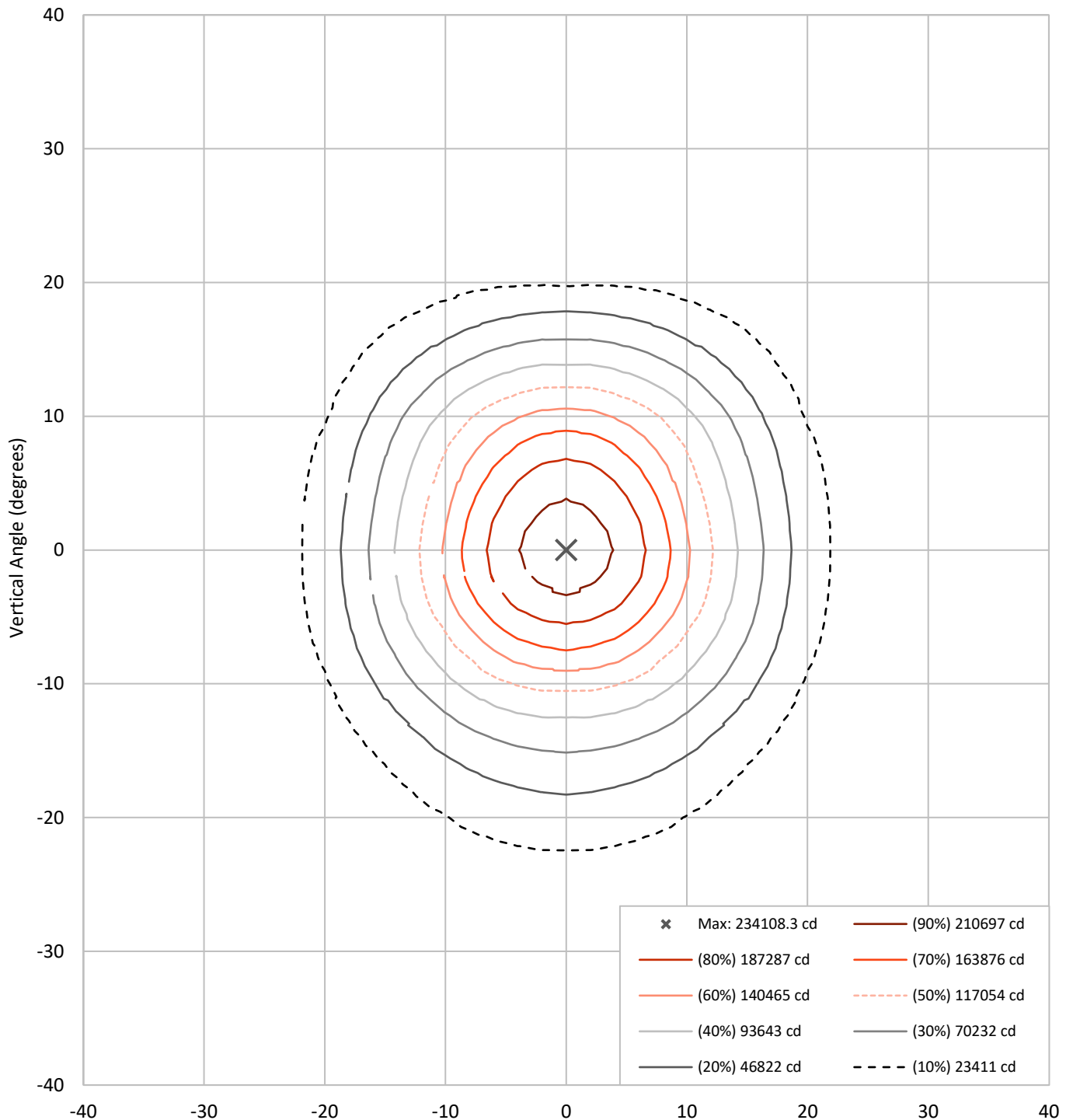
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	48520.8 lumens	Max Intensity:	234108.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	140.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24.3°H x 22.7°V	Field Angle (10%):	43.8°H x 42.1°V
Beam Lumens:	22879.8 lumens	Field Lumens:	41333.4 lumens
Beam Efficiency:	47.2%	Field Efficiency:	85.2%

Input Watts (W): 345.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Candela Plot





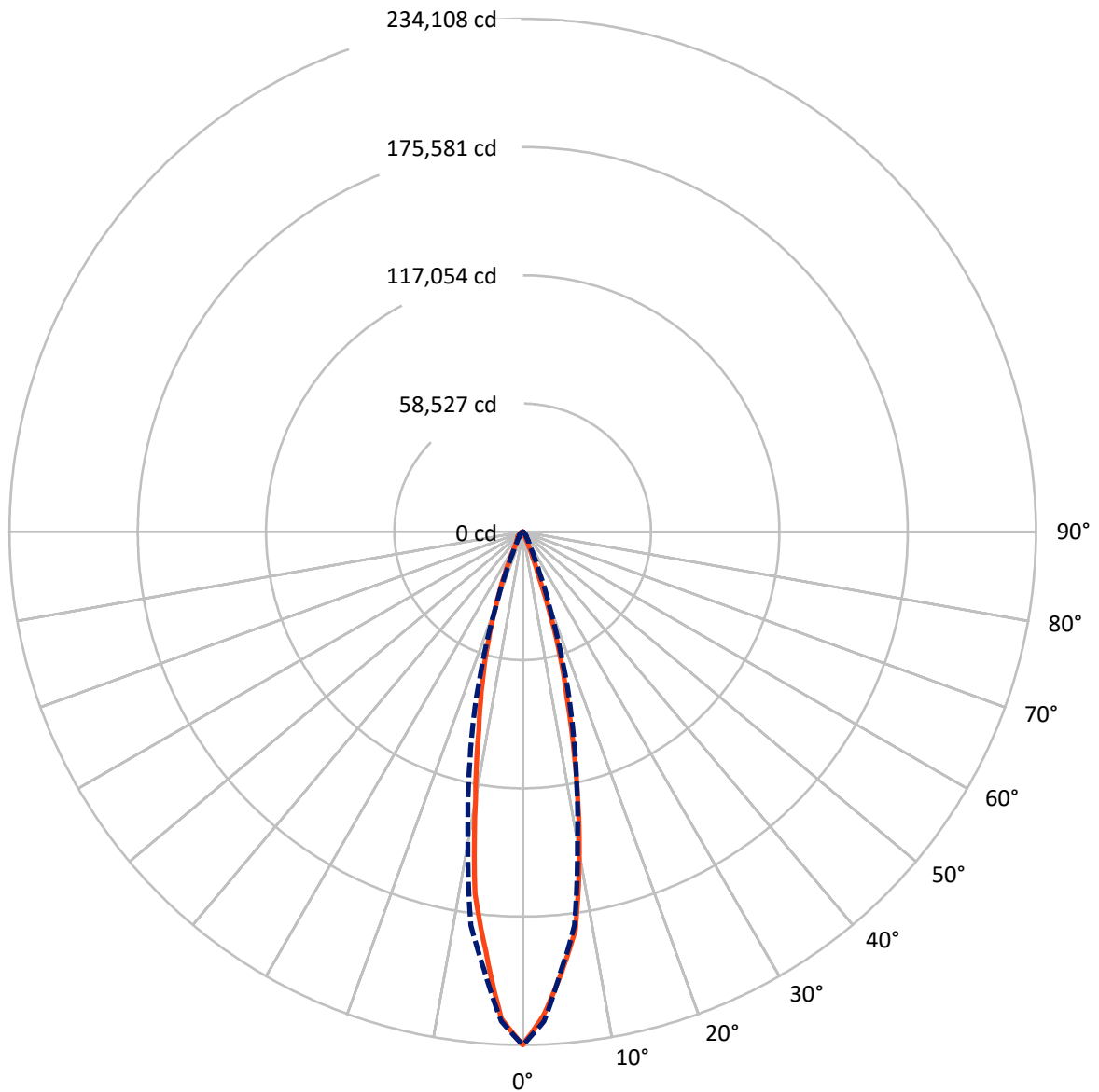
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Lumen Table

90	0.1		0.1		0.3		0.3		0.3		0.3		0.3		0.1		0.1	
80	0.1		0.1		0.3		0.3		0.3		0.3		0.3		0.1		0.1	
70	0.1	0.0	0.1	0.4	0.5	0.4	0.3	0.2	0.2	0.3	0.4	0.5	0.4	0.1	0.0	0.1		
60		0.1	0.3	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.3	0.1			
50	0.1	0.1	0.4	0.4	0.5	0.7	1.3	0.9	0.9	1.3	0.7	0.5	0.4	0.4	0.1	0.1		
40		0.3	0.8	1.9	3.4	4.9	6.8	8.1	8.1	6.8	4.9	3.4	1.9	0.8	0.3			
30	0.1	0.5	3.3	10.3	23.9	39.8	81.8	157.5	157.5	81.8	39.8	23.9	10.3	3.3	0.5	0.1		
20		1.0	7.1	26.4	63.8	168.9	929.9	2194.4	2194.4	929.9	168.9	63.8	26.4	7.1	1.0			
10	0.2	1.5	9.4	35.1	82.1	360.2	2229.2	5228.0	5228.0	2229.2	360.2	82.1	35.1	9.4	1.5	0.2		
0		1.9	10.1	35.7	82.3	356.7	2190.3	5010.0	5010.0	2190.3	356.7	82.3	35.7	10.1	1.9			
-10	0.4	2.3	9.5	29.6	64.7	170.2	888.0	2004.2	2004.2	888.0	170.2	64.7	29.6	9.5	2.3	0.4		
-20		2.4	8.8	22.2	55.1	96.5	221.0	451.7	451.7	221.0	96.5	55.1	22.2	8.8	2.4			
-30	0.3	2.1	7.6	16.8	40.7	79.8	112.1	137.7	137.7	112.1	79.8	40.7	16.8	7.6	2.1	0.3		
-40		1.5	5.8	13.2	24.7	43.8	71.8	91.9	91.9	71.8	43.8	24.7	13.2	5.8	1.5			
-50	0.2	0.7	3.5	8.9	16.8	25.9	34.7	40.2	40.2	34.7	25.9	16.8	8.9	3.5	0.7	0.2		
-60		0.3	1.2	3.9	7.8	12.5	17.0	19.6	19.6	17.0	12.5	7.8	3.9	1.2	0.3			
-70	0.1	0.7	2.5	6.4	8.7	6.4	2.5	0.7	0.1									
-80		0.1	0.7	2.5	6.4	8.7	6.4	2.5				0.7						
-90	0.1		0.7		2.5		6.4		8.7		6.4		2.5		0.7		0.1	

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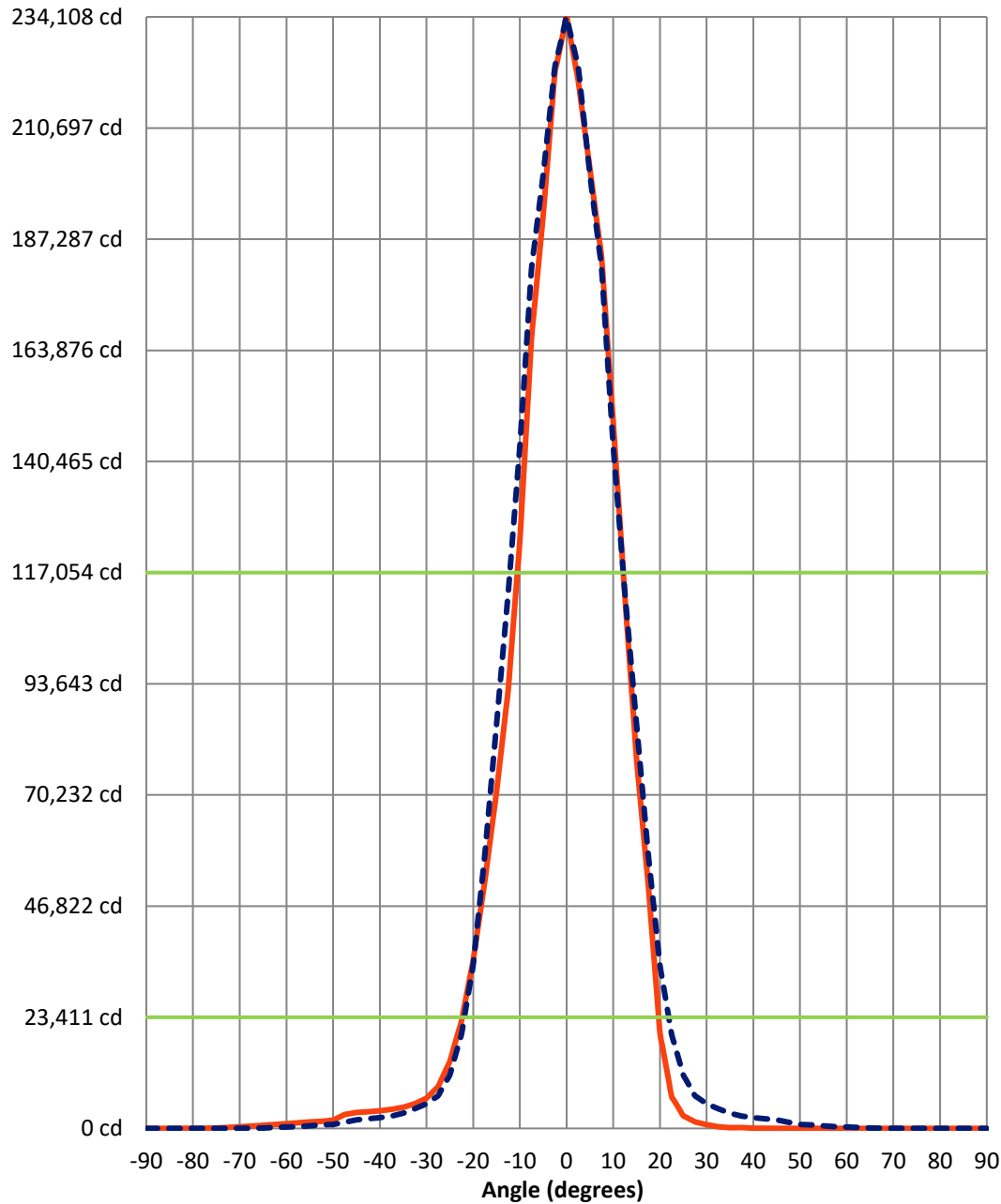
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 24.3°
 V Angle: 22.7°
 Lumens: 22879.8
 Efficiency: 47.2%

Field:
 H Angle: 43.8°
 V Angle: 42.1°
 Lumens: 41333.4
 Efficiency: 85.2%

Spill:
 Lumens: 7187.4
 Efficiency: 14.8%

— 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°	2.4	3.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	2.4	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.5	2.6	2.6	2.6	2.5	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.6	2.7	2.8	2.7	2.6	2.4	2.4	2.4	2.4	2.4
80°	2.4	2.6	2.8	2.9	2.8	2.7	2.5	2.6	2.6	2.6	2.4
77.5°	2.4	2.7	2.9	3.0	2.9	2.8	2.8	2.9	2.9	2.7	2.5
75°	2.4	2.7	3.0	3.1	3.1	3.0	3.1	3.2	3.1	2.8	2.5
72.5°	2.4	2.8	3.1	3.2	3.2	3.2	3.4	3.4	3.1	2.8	2.5
70°	2.4	2.8	3.2	3.4	3.3	3.4	3.6	3.4	3.1	2.9	2.9
67.5°	2.4	2.9	3.3	3.4	3.4	3.5	3.6	3.5	3.2	3.1	3.3
65°	2.4	2.9	3.4	3.4	3.4	3.6	3.6	3.5	3.3	3.4	3.6
62.5°	2.4	3.0	3.5	3.5	3.5	3.6	3.6	3.5	3.5	3.6	3.8
60°	2.4	3.0	3.6	3.5	3.6	3.6	3.6	3.6	3.6	3.9	3.9
57.5°	2.4	3.0	3.6	3.5	3.6	3.6	3.7	3.6	3.8	4.1	4.1
55°	2.4	3.1	3.6	3.6	3.6	3.6	3.7	3.7	4.1	4.4	4.4
52.5°	2.4	3.1	3.6	3.6	3.6	3.6	3.8	4.0	4.5	4.7	4.7
50°	2.4	3.2	3.6	3.6	3.6	3.7	3.9	4.3	4.8	5.1	6.3
47.5°	2.4	3.2	3.6	3.6	3.6	3.8	4.1	4.6	5.2	5.4	7.9
45°	2.4	3.2	3.6	3.6	3.6	4.0	4.4	5.0	5.5	6.7	9.3
42.5°	2.4	3.3	3.6	3.6	3.6	4.1	4.6	5.3	5.9	7.8	12.0
40°	2.4	3.3	3.6	3.6	3.7	4.3	4.9	5.6	6.4	8.8	14.8
37.5°	2.4	3.4	3.6	3.6	3.8	4.4	5.1	5.8	7.2	10.2	17.4
35°	2.4	3.4	3.6	3.6	3.9	4.6	5.4	6.1	7.9	12.6	19.6
32.5°	2.4	3.4	3.6	3.6	4.0	4.8	5.6	6.4	8.6	15.0	21.6
30°	2.4	3.4	3.6	3.6	4.1	5.0	5.8	6.7	9.2	17.4	23.6
27.5°	2.4	3.5	3.6	3.6	4.3	5.2	6.0	7.2	10.2	19.8	25.7
25°	2.4	3.5	3.6	3.6	4.3	5.3	6.2	7.7	12.1	21.7	27.9
22.5°	2.4	3.5	3.6	3.6	4.4	5.5	6.4	8.1	13.9	23.4	31.8
20°	2.4	3.5	3.6	3.6	4.5	5.6	6.6	8.4	15.7	25.1	35.9
17.5°	2.4	3.5	3.6	3.6	4.6	5.6	6.8	8.7	17.3	26.8	40.3
15°	2.4	3.6	3.6	3.6	4.6	5.7	7.0	9.1	18.8	28.4	44.8
12.5°	2.4	3.6	3.6	3.6	4.7	5.8	7.3	9.6	20.5	29.9	49.4
10°	2.4	3.6	3.6	3.6	4.7	5.8	7.5	10.1	22.5	32.3	54.4
7.5°	2.4	3.6	3.6	3.6	4.8	5.9	7.7	10.6	24.2	34.8	60.6
5°	2.4	3.6	3.6	3.6	4.8	5.9	7.9	11.1	25.9	37.3	66.6
2.5°	2.4	3.6	3.6	3.6	4.8	5.9	8.1	11.5	27.3	39.5	72.3
0°	2.4	3.6	3.6	3.6	4.8	5.9	8.3	11.9	28.5	41.6	77.3
-2.5°	2.4	3.6	3.7	3.8	5.0	6.4	9.7	15.6	35.1	52.3	91.1
-5°	2.4	3.6	3.7	3.9	5.2	6.9	11.1	19.2	41.2	62.6	103.9
-7.5°	2.4	3.6	3.8	4.0	5.4	7.4	12.3	22.5	46.9	72.2	115.8
-10°	2.4	3.6	3.8	4.2	5.5	7.8	13.5	25.5	51.9	81.0	126.5
-12.5°	2.4	3.6	3.8	4.3	5.7	8.2	14.5	28.1	56.1	88.8	137.2
-15°	2.4	3.6	3.9	4.5	5.8	8.6	15.3	30.2	59.9	95.9	146.7
-17.5°	2.4	3.6	3.9	4.6	6.0	8.9	15.9	32.2	63.2	101.9	154.0
-20°	2.4	3.5	4.0	4.7	6.1	9.1	16.5	33.9	65.5	106.6	158.8



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV1

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.4	3.5	4.0	4.8	6.2	9.2	17.1	34.8	66.5	109.9	161.0
-25°	2.4	3.5	4.0	4.9	6.3	9.3	17.2	35.0	66.3	111.7	160.4
-27.5°	2.4	3.5	4.0	4.9	6.4	9.4	17.0	34.3	64.8	111.8	161.9
-30°	2.4	3.5	4.0	5.0	6.5	9.3	16.3	32.7	63.4	109.8	161.6
-32.5°	2.4	3.5	4.0	5.0	6.5	9.1	15.1	31.6	61.5	106.0	159.3
-35°	2.4	3.4	4.0	5.1	6.6	8.9	14.5	30.3	58.3	100.3	154.9
-37.5°	2.4	3.4	4.0	5.1	6.6	8.6	14.2	28.2	53.9	92.8	145.0
-40°	2.4	3.4	4.0	5.1	6.5	8.6	13.6	25.4	48.1	85.7	132.8
-42.5°	2.4	3.4	4.0	5.1	6.5	8.5	12.9	21.8	43.2	76.7	118.7
-45°	2.4	3.4	4.0	5.0	6.4	8.4	12.1	19.0	38.3	66.1	103.4
-47.5°	2.4	3.4	3.9	5.0	6.3	8.3	11.0	17.7	32.4	54.4	90.0
-50°	2.4	3.3	3.9	4.9	6.2	8.0	10.6	16.2	25.4	46.3	75.1
-52.5°	2.4	3.3	3.8	4.8	6.1	7.8	10.2	14.5	21.6	37.5	59.4
-55°	2.4	3.3	3.7	4.7	6.0	7.5	9.8	12.7	19.2	28.0	48.4
-57.5°	2.4	3.3	3.7	4.6	5.8	7.3	9.3	12.0	16.7	23.5	36.6
-60°	2.4	3.3	3.6	4.5	5.6	7.1	8.7	11.3	14.3	20.3	27.1
-62.5°	2.4	3.2	3.6	4.3	5.4	6.8	8.4	10.5	13.4	16.9	23.2
-65°	2.4	3.2	3.6	4.2	5.2	6.5	7.9	9.8	12.3	15.2	19.1
-67.5°	2.4	3.2	3.6	4.0	5.0	6.1	7.5	9.2	11.3	13.9	16.8
-70°	2.4	3.2	3.6	3.9	4.7	5.8	7.0	8.6	10.5	12.5	15.1
-72.5°	2.4	3.2	3.6	3.8	4.5	5.4	6.5	7.9	9.6	11.5	13.5
-75°	2.4	3.1	3.6	3.8	4.2	5.0	5.9	7.3	8.8	10.4	12.2
-77.5°	2.4	3.1	3.6	3.8	4.1	4.6	5.4	6.6	7.9	9.3	10.9
-80°	2.4	3.1	3.6	3.7	4.0	4.4	4.8	5.8	6.9	8.1	9.5
-82.5°	2.4	3.1	3.6	3.7	3.9	4.2	4.5	5.2	6.0	7.0	8.0
-85°	2.4	3.1	3.6	3.7	3.8	4.0	4.2	4.7	5.2	5.8	6.5
-87.5°	2.4	3.0	3.6	3.6	3.7	3.8	3.9	4.1	4.4	4.7	5.1
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	3.9	4.2	4.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	2.1	1.8	1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	2.1	1.8	1.6	1.4	1.4	1.4	1.3	1.2	1.2	1.2	1.2
82.5°	2.2	2.1	2.1	2.1	2.0	1.8	1.5	1.4	1.4	1.4	1.3
80°	2.4	2.4	2.4	2.4	2.3	2.2	2.1	2.2	2.1	1.9	1.8
77.5°	2.4	2.4	2.4	2.4	2.4	2.5	2.7	3.0	3.0	2.9	2.7
75°	2.4	2.4	2.5	2.4	2.5	2.8	3.2	3.5	3.5	3.4	3.4
72.5°	2.6	2.7	2.7	2.5	2.8	3.2	3.5	3.6	4.3	5.2	5.9
70°	3.1	3.1	3.1	3.1	3.4	3.9	5.1	6.7	8.4	9.6	11.2
67.5°	3.5	3.4	3.4	3.7	4.5	5.9	7.8	12.0	16.7	18.5	19.4
65°	3.6	3.6	3.9	4.6	5.8	9.3	13.9	19.4	25.1	26.4	26.3
62.5°	3.6	3.8	4.4	6.1	9.5	13.9	19.9	26.0	32.0	31.0	27.4
60°	3.7	3.9	6.0	9.5	13.5	19.4	26.0	29.2	31.1	30.9	26.6
57.5°	3.9	5.2	8.8	13.3	19.0	24.1	26.2	28.1	29.2	30.2	25.0
55°	4.8	7.6	12.2	18.1	22.7	23.8	25.0	25.6	26.6	24.7	19.1
52.5°	7.0	10.3	16.3	21.6	23.6	23.4	22.2	22.3	20.6	18.0	15.2
50°	9.0	14.2	19.9	23.2	24.2	22.4	19.2	18.2	16.5	14.4	12.5
47.5°	12.1	18.0	22.1	24.8	24.2	21.7	18.1	15.8	14.0	13.4	11.6
45°	15.4	20.7	24.6	25.8	24.5	21.3	18.3	14.3	15.1	14.9	14.8
42.5°	18.6	22.9	26.2	27.2	24.5	22.3	19.7	18.7	18.6	21.0	22.6
40°	20.7	25.0	28.1	28.4	25.5	24.9	26.7	27.8	26.7	30.8	34.2
37.5°	22.6	27.2	31.0	32.5	28.7	31.7	36.2	48.7	49.9	42.7	54.7
35°	24.3	29.8	36.9	42.4	42.2	42.5	61.7	80.7	89.6	78.5	88.9
32.5°	26.5	32.7	44.9	59.4	71.3	73.3	94.1	132.8	151.0	151.7	150.3
30°	29.6	40.4	57.5	81.3	111.6	140.9	156.7	199.3	228.5	278.5	316.4
27.5°	34.0	50.2	78.7	118.4	166.1	224.3	259.7	284.4	356.4	449.9	550.6
25°	38.9	70.1	103.1	166.0	247.0	321.0	366.2	395.7	521.5	707.0	836.7
22.5°	49.8	95.7	138.9	220.0	338.4	421.5	469.2	564.6	759.6	1008.7	1162.3
20°	68.4	127.0	180.9	269.3	431.9	524.5	569.6	758.9	1060.0	1315.3	1526.9
17.5°	90.0	158.6	222.6	327.0	484.4	603.7	680.4	966.9	1379.9	1609.2	1851.6
15°	113.7	190.1	259.7	378.4	535.1	650.6	816.6	1217.7	1672.5	1891.5	2141.6
12.5°	138.8	221.3	292.5	423.4	585.0	694.0	938.5	1396.5	1823.6	2120.1	2444.5
10°	164.4	251.7	321.5	462.2	633.1	733.8	1052.9	1545.5	1903.5	2182.4	2560.9
7.5°	180.3	272.6	345.3	495.1	678.4	770.2	1157.4	1665.9	1960.2	2219.2	2576.8
5°	191.8	282.7	356.9	517.5	710.0	799.2	1242.7	1758.7	1997.1	2233.9	2548.6
2.5°	200.3	290.6	366.8	534.2	729.4	819.1	1282.8	1794.4	2021.4	2251.9	2552.8
0°	205.8	296.2	374.7	546.0	742.2	836.2	1303.7	1806.8	2036.4	2267.2	2595.5
-2.5°	213.1	304.3	387.2	557.9	745.5	840.0	1306.7	1801.9	2045.0	2303.6	2641.6
-5°	217.9	310.2	397.2	564.7	743.1	840.5	1290.3	1776.2	2032.6	2294.7	2623.8
-7.5°	220.8	313.8	404.3	565.2	730.4	827.8	1234.3	1695.3	1962.8	2208.7	2532.2
-10°	223.1	318.8	411.1	555.6	705.8	805.6	1155.3	1599.2	1885.4	2111.9	2415.7
-12.5°	230.6	325.7	416.1	544.0	680.6	780.7	1058.8	1490.9	1801.9	2005.5	2290.0
-15°	235.8	331.3	419.1	531.3	656.1	753.0	945.2	1372.9	1738.2	1966.9	2210.8
-17.5°	238.9	335.8	420.1	518.5	633.9	722.9	820.5	1263.4	1687.5	1946.0	2171.2
-20°	239.8	339.4	419.4	506.3	614.2	705.0	792.7	1130.5	1563.5	1912.7	2136.2



REPORT NUMBER: P731314 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	238.7	342.4	418.3	500.7	601.6	697.0	782.1	983.6	1399.8	1864.7	2091.4
-25°	237.9	338.3	418.1	492.9	587.3	687.3	771.1	846.3	1215.8	1680.0	2031.3
-27.5°	236.4	332.0	409.7	480.5	569.4	673.6	758.2	832.3	1046.2	1470.1	1936.7
-30°	231.1	315.1	398.2	465.1	551.4	650.5	743.6	822.0	902.1	1255.9	1691.2
-32.5°	219.2	296.6	379.2	450.0	528.9	623.8	722.9	804.1	885.3	1015.2	1428.0
-35°	206.5	279.2	357.0	431.3	501.8	593.0	687.7	780.0	860.8	945.7	1147.2
-37.5°	196.7	260.0	333.8	407.9	477.9	558.1	648.6	742.0	829.1	916.8	1016.0
-40°	184.9	239.3	310.7	381.7	451.6	524.0	607.5	695.8	787.0	888.0	981.0
-42.5°	170.9	223.9	286.3	354.7	422.5	492.0	564.1	647.7	743.1	849.8	948.2
-45°	153.2	206.3	261.4	325.5	391.0	457.2	525.8	598.1	693.7	795.7	900.3
-47.5°	133.4	185.8	239.0	293.8	356.6	420.5	484.6	557.7	638.4	733.3	835.0
-50°	112.9	161.4	213.4	264.0	319.4	380.7	442.6	513.1	589.2	668.2	757.2
-52.5°	94.2	134.8	183.3	233.4	283.3	337.6	398.0	463.7	534.3	609.5	682.7
-55°	73.8	110.1	150.4	198.2	247.3	295.8	347.7	407.9	472.8	541.5	610.1
-57.5°	57.3	84.6	119.2	159.2	205.7	253.9	300.0	348.1	404.9	466.5	526.5
-60°	43.0	62.4	88.7	122.5	159.9	204.4	250.4	294.9	339.9	385.4	438.5
-62.5°	29.8	44.9	63.2	86.5	118.6	153.4	193.7	236.1	279.1	318.2	356.9
-65°	25.0	30.1	42.7	59.7	77.8	107.2	139.5	173.3	211.1	244.8	279.6
-67.5°	20.0	24.6	29.2	36.0	51.6	68.6	86.9	115.4	144.9	169.2	194.1
-70°	17.5	19.5	23.2	27.3	31.2	38.1	53.0	68.9	84.8	100.6	121.0
-72.5°	15.4	17.1	19.0	20.9	24.2	27.5	30.8	34.2	43.1	55.2	66.4
-75°	13.5	14.7	16.2	17.8	19.4	20.9	22.5	25.3	28.1	30.9	33.7
-77.5°	11.8	12.7	13.7	14.7	15.9	17.2	18.5	19.7	20.8	21.9	23.1
-80°	10.1	10.7	11.3	12.1	12.9	13.7	14.6	15.6	16.4	17.1	17.8
-82.5°	8.5	8.9	9.3	9.7	10.1	10.4	10.8	11.4	12.0	12.5	13.0
-85°	6.9	7.1	7.4	7.6	7.9	8.1	8.4	8.6	8.8	9.0	9.2
-87.5°	5.4	5.6	5.9	6.1	6.2	6.3	6.4	6.4	6.5	6.6	6.6
-90°	2.1	1.8	1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



REPORT NUMBER: P731314 (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°	4.8	5.1	5.4	5.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.6	1.5	1.5	1.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	2.6	2.4	2.3	2.1	1.9	1.8	1.7	1.5	1.2	1.2	1.2
75°	3.5	3.5	3.6	3.4	3.1	2.8	2.6	2.4	2.2	2.2	2.3
72.5°	6.3	6.3	6.0	6.0	5.6	5.5	5.5	5.4	5.2	5.3	5.5
70°	12.2	12.5	12.3	11.5	10.2	9.2	8.7	8.0	7.1	7.0	7.4
67.5°	19.2	18.3	17.2	15.8	13.7	11.9	10.9	10.0	9.2	9.0	9.2
65°	24.4	20.7	18.1	16.1	14.4	12.7	11.5	10.4	9.3	8.6	8.5
62.5°	23.5	19.3	16.5	14.7	13.1	11.7	10.2	8.9	7.5	6.7	6.7
60°	22.1	17.5	13.8	12.0	10.6	9.6	8.3	7.2	6.4	5.9	6.0
57.5°	18.8	13.7	10.5	9.7	8.7	7.6	6.8	6.3	6.1	5.9	5.9
55°	14.5	11.6	9.7	8.6	7.6	6.6	5.9	6.1	6.1	5.9	6.2
52.5°	12.0	10.3	8.9	7.9	7.4	7.1	7.0	7.0	7.1	7.3	7.5
50°	10.7	9.5	8.9	8.2	8.2	8.2	8.2	8.6	8.9	9.0	8.9
47.5°	10.8	10.3	10.9	9.4	9.7	10.6	10.6	10.7	11.5	11.7	11.6
45°	13.6	16.4	16.5	15.2	14.4	17.6	17.8	16.1	24.7	24.2	18.3
42.5°	24.3	25.9	26.0	27.5	30.5	40.0	57.8	73.8	76.2	67.0	45.9
40°	39.2	37.9	40.9	49.0	72.7	94.3	110.6	159.5	159.1	124.5	125.4
37.5°	63.8	62.4	66.9	91.7	99.4	85.9	121.0	124.4	106.5	127.0	128.8
35°	109.9	124.5	108.5	134.8	136.1	121.7	130.6	145.8	124.3	148.8	159.3
32.5°	200.3	226.2	228.7	226.7	240.2	253.4	245.7	282.5	289.1	313.5	340.4
30°	325.4	375.3	413.5	406.2	428.6	467.9	480.8	537.0	593.1	627.9	713.0
27.5°	567.1	592.3	670.6	725.6	712.9	777.2	904.6	944.0	1104.9	1181.9	1292.8
25°	898.1	942.8	1054.3	1185.0	1241.0	1348.6	1555.7	1654.8	1866.0	1973.9	2380.4
22.5°	1308.1	1459.6	1599.5	1775.1	2027.1	2241.1	2471.3	2858.3	3487.0	4390.3	5468.7
20°	1776.3	2030.2	2241.7	2566.1	2983.8	3386.3	3981.8	5698.9	7522.6	11326.5	13910.9
17.5°	2219.2	2622.3	2917.8	3348.6	3965.6	4973.1	7024.6	10862.7	16894.8	24263.6	31297.5
15°	2564.8	2976.9	3524.5	4174.7	5117.1	7088.8	10836.1	18422.5	29923.2	41151.5	52965.6
12.5°	2856.8	3292.7	3892.9	4773.7	6183.2	9727.3	16464.9	27892.8	43053.6	59769.1	77430.5
10°	3044.8	3574.0	4292.9	5456.2	7798.5	12833.6	21592.7	36906.4	57285.0	79108.7	98739.0
7.5°	3077.9	3723.6	4634.2	6049.2	9401.1	16074.0	27691.8	45706.5	68025.2	92605.0	117327.9
5°	3091.1	3862.9	4922.7	6515.2	10502.1	18418.0	31205.3	51344.4	76126.3	101370.1	127977.8
2.5°	3126.3	3999.7	5134.4	6841.1	11137.3	19815.7	33235.8	55383.0	81527.7	108939.4	138605.4
0°	3199.7	4143.0	5180.2	6896.6	11270.4	19845.3	34407.0	57697.1	85050.5	112745.2	143688.5
-2.5°	3239.5	4124.6	5141.6	6783.3	11098.8	19848.4	33281.4	56087.1	83213.5	110234.6	141416.6
-5°	3171.2	3940.4	4903.7	6441.4	10348.0	18261.2	31045.4	51929.9	76967.4	101262.5	126336.9
-7.5°	3024.5	3681.3	4565.6	5955.9	9183.7	15800.8	27003.8	44152.8	65413.6	86534.7	106069.8
-10°	2853.7	3406.6	4131.9	5251.1	7538.3	12493.6	21129.1	34622.3	52884.3	71015.8	87501.7
-12.5°	2669.4	3100.0	3637.0	4411.1	5835.0	9433.5	16013.1	26355.0	38982.5	52660.6	67634.9
-15°	2511.9	2829.3	3236.4	3895.6	4981.7	7027.8	10748.9	17631.0	26685.8	37408.8	48447.1
-17.5°	2406.0	2642.0	2996.5	3499.4	4167.0	5382.3	8075.5	12155.8	17982.0	26007.3	33297.5
-20°	2330.0	2551.9	2833.3	3229.2	3788.4	4645.2	5963.0	8775.2	12609.1	17810.8	22759.3



REPORT NUMBER: P731314 (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°	2275.8	2475.5	2713.2	3031.9	3531.2	4200.8	5041.9	6406.8	8821.3	11888.7	15328.9
-25°	2222.4	2388.0	2650.2	2992.9	3336.1	3815.2	4396.6	5066.7	6353.0	7716.8	9828.5
-27.5°	2161.4	2366.3	2659.3	2979.3	3288.6	3526.4	3939.1	4401.3	5082.3	5741.7	6826.6
-30°	2116.9	2379.0	2670.5	2978.1	3216.4	3426.5	3657.3	4010.6	4451.2	4917.2	5416.0
-32.5°	1895.7	2340.0	2639.2	2915.0	3112.1	3307.4	3511.8	3756.9	4038.6	4333.8	4636.8
-35°	1599.2	2072.4	2536.5	2752.7	2952.5	3149.5	3362.7	3561.2	3760.0	3959.6	4149.8
-37.5°	1235.8	1699.5	2137.9	2515.7	2745.0	2945.6	3172.9	3376.7	3550.9	3701.0	3847.4
-40°	1079.6	1241.5	1665.6	2063.2	2397.0	2714.8	2929.0	3154.7	3349.1	3487.5	3611.8
-42.5°	1036.6	1127.8	1221.8	1526.7	1895.2	2221.9	2512.5	2794.8	3062.1	3254.5	3402.4
-45°	999.3	1076.5	1157.0	1246.9	1336.7	1623.2	1925.3	2229.4	2544.0	2825.5	3053.5
-47.5°	930.2	1023.7	1103.0	1177.4	1248.8	1330.3	1414.5	1535.7	1811.7	2093.5	2350.2
-50°	845.0	932.6	1021.0	1109.0	1175.1	1237.7	1301.7	1374.0	1454.4	1536.5	1605.7
-52.5°	752.1	832.7	914.3	991.9	1066.0	1138.0	1208.3	1272.0	1331.9	1389.7	1423.7
-55°	676.7	741.2	805.5	872.0	939.5	1005.4	1070.7	1136.6	1200.1	1260.7	1294.5
-57.5°	588.6	652.9	714.5	765.2	817.6	871.1	927.0	983.8	1039.4	1091.2	1120.4
-60°	493.0	548.8	602.1	651.4	699.9	747.4	793.2	838.2	881.5	919.1	941.9
-62.5°	396.9	442.3	486.5	528.4	569.2	609.2	652.0	692.7	730.9	761.9	780.9
-65°	315.0	349.6	380.3	410.5	440.2	474.4	510.9	545.4	577.8	603.0	619.7
-67.5°	223.0	252.8	281.0	307.9	332.6	357.0	382.9	408.3	432.7	451.5	465.0
-70°	140.5	159.3	177.9	197.7	219.4	240.8	262.2	281.9	299.9	313.4	323.7
-72.5°	76.6	85.7	95.1	109.2	122.6	137.0	151.7	165.6	178.6	187.7	194.5
-75°	36.4	40.4	47.7	54.3	60.0	66.3	72.7	78.6	84.0	86.8	88.3
-77.5°	24.9	26.9	28.8	30.4	31.8	33.7	35.7	37.8	39.8	41.1	42.1
-80°	18.6	19.4	20.2	21.0	21.8	22.7	23.5	24.3	25.0	25.7	26.3
-82.5°	13.4	13.9	14.3	14.7	15.0	15.6	16.2	16.7	17.2	17.6	18.1
-85°	9.4	9.7	9.9	10.1	10.2	10.6	10.9	11.3	11.6	11.7	11.8
-87.5°	6.7	7.0	7.4	7.7	8.1	8.1	8.2	8.2	8.2	8.2	8.3
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6



REPORT NUMBER: P731314 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	5.9	5.9	6.5	7.1	6.5	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	0.3	0.0	0.6	1.2	0.6	0.0	0.3	0.6	0.9	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.2	1.8	2.4	1.8	1.2	1.2	1.2	1.2	1.2	1.5
75°	2.3	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.2	2.2	2.4
72.5°	5.7	5.8	5.9	5.9	5.9	5.8	5.7	5.5	5.3	5.2	5.4
70°	7.8	8.2	8.3	8.3	8.3	8.2	7.8	7.4	7.0	7.1	8.0
67.5°	9.4	9.5	9.5	9.5	9.5	9.5	9.4	9.2	9.0	9.2	10.0
65°	8.4	8.3	7.8	7.1	7.8	8.3	8.4	8.5	8.6	9.3	10.4
62.5°	6.9	7.1	7.1	7.1	7.1	7.1	6.9	6.7	6.7	7.5	8.9
60°	6.0	6.0	5.9	5.9	5.9	6.0	6.0	6.0	5.9	6.4	7.2
57.5°	5.9	5.9	6.4	7.1	6.4	5.9	5.9	5.9	5.9	6.1	6.3
55°	6.5	6.9	7.1	7.1	7.1	6.9	6.5	6.2	5.9	6.1	6.1
52.5°	7.5	7.2	7.1	7.1	7.1	7.2	7.5	7.5	7.3	7.1	7.0
50°	8.7	8.4	8.3	8.3	8.3	8.4	8.7	8.9	9.0	8.9	8.6
47.5°	11.4	10.9	10.7	10.7	10.7	10.9	11.4	11.6	11.7	11.5	10.7
45°	18.7	18.8	18.8	19.0	18.8	18.8	18.7	18.3	24.2	24.7	16.1
42.5°	44.1	38.2	33.0	33.3	33.0	38.2	44.1	45.9	67.0	76.2	73.8
40°	113.0	84.6	56.2	47.6	56.2	84.6	113.0	125.4	124.5	159.1	159.5
37.5°	116.3	118.7	139.6	187.9	139.6	118.7	116.3	128.8	127.0	106.5	124.4
35°	162.6	165.1	159.3	155.8	159.3	165.1	162.6	159.3	148.8	124.3	145.8
32.5°	345.8	361.2	359.3	349.7	359.3	361.2	345.8	340.4	313.5	289.1	282.5
30°	744.8	783.8	779.6	787.4	779.6	783.8	744.8	713.0	627.9	593.1	537.0
27.5°	1336.7	1384.9	1393.7	1383.4	1393.7	1384.9	1336.7	1292.8	1181.9	1104.9	944.0
25°	2653.5	2729.6	2701.8	2665.6	2701.8	2729.6	2653.5	2380.4	1973.9	1866.0	1654.8
22.5°	6729.3	7030.6	6999.6	6745.6	6999.6	7030.6	6729.3	5468.7	4390.3	3487.0	2858.3
20°	18488.2	20477.6	21343.4	20170.1	21343.4	20477.6	18488.2	13910.9	11326.5	7522.6	5698.9
17.5°	39132.8	45194.3	49504.1	51302.4	49504.1	45194.3	39132.8	31297.5	24263.6	16894.8	10862.7
15°	64011.3	73135.6	78442.1	77729.2	78442.1	73135.6	64011.3	52965.6	41151.5	29923.2	18422.5
12.5°	92045.2	102859.7	111822.0	112012.0	111822.0	102859.7	92045.2	77430.5	59769.1	43053.6	27892.8
10°	119161.1	134170.5	146403.0	148773.5	146403.0	134170.5	119161.1	98739.0	79108.7	57285.0	36906.4
7.5°	139504.1	162513.4	177868.7	183495.2	177868.7	162513.4	139504.1	117327.9	92605.0	68025.2	45706.5
5°	159607.8	183718.0	199364.0	202139.7	199364.0	183718.0	159607.8	127977.8	101370.1	76126.3	51344.4
2.5°	173167.5	197488.1	211179.8	220676.7	211179.8	197488.1	173167.5	138605.4	108939.4	81527.7	55383.0
0°	181110.2	200926.4	223581.9	234108.3	223581.9	200926.4	181110.2	143688.5	112745.2	85050.5	57697.1
-2.5°	175104.8	197397.6	210368.3	222330.0	210368.3	197397.6	175104.8	141416.6	110234.6	83213.5	56087.1
-5°	155215.8	179460.3	190919.3	192414.5	190919.3	179460.3	155215.8	126336.9	101262.5	76967.4	51929.9
-7.5°	126829.5	149403.1	160405.0	166478.3	160405.0	149403.1	126829.5	106069.8	86534.7	65413.6	44152.8
-10°	102669.7	115843.3	123249.6	123737.3	123249.6	115843.3	102669.7	87501.7	71015.8	52884.3	34622.3
-12.5°	79266.5	88102.8	92483.2	92323.0	92483.2	88102.8	79266.5	67634.9	52660.6	38982.5	26355.0
-15°	58167.1	65032.0	68983.2	70877.8	68983.2	65032.0	58167.1	48447.1	37408.8	26685.8	17631.0
-17.5°	41056.2	46509.9	50469.0	52068.5	50469.0	46509.9	41056.2	33297.5	26007.3	17982.0	12155.8
-20°	27989.4	31727.0	34295.6	35386.0	34295.6	31727.0	27989.4	22759.3	17810.8	12609.1	8775.2



REPORT NUMBER: P731314 (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°	18436.3	20941.9	22703.1	22608.5	22703.1	20941.9	18436.3	15328.9	11888.7	8821.3	6406.8
-25°	11752.8	13130.5	14035.1	14108.5	14035.1	13130.5	11752.8	9828.5	7716.8	6353.0	5066.7
-27.5°	7778.8	8384.5	8749.5	8812.9	8749.5	8384.5	7778.8	6826.6	5741.7	5082.3	4401.3
-30°	5887.5	6166.2	6374.9	6366.1	6374.9	6166.2	5887.5	5416.0	4917.2	4451.2	4010.6
-32.5°	4894.5	5031.6	5123.0	5196.9	5123.0	5031.6	4894.5	4636.8	4333.8	4038.6	3756.9
-35°	4280.3	4350.1	4401.1	4447.5	4401.1	4350.1	4280.3	4149.8	3959.6	3760.0	3561.2
-37.5°	3931.6	3980.0	4012.0	4022.8	4012.0	3980.0	3931.6	3847.4	3701.0	3550.9	3376.7
-40°	3659.3	3686.6	3702.8	3712.4	3702.8	3686.6	3659.3	3611.8	3487.5	3349.1	3154.7
-42.5°	3455.1	3492.4	3511.7	3511.4	3511.7	3492.4	3455.1	3402.4	3254.5	3062.1	2794.8
-45°	3184.3	3278.7	3336.0	3360.3	3336.0	3278.7	3184.3	3053.5	2825.5	2544.0	2229.4
-47.5°	2560.7	2740.1	2865.9	2932.1	2865.9	2740.1	2560.7	2350.2	2093.5	1811.7	1535.7
-50°	1668.0	1727.9	1753.1	1742.6	1753.1	1727.9	1668.0	1605.7	1536.5	1454.4	1374.0
-52.5°	1448.9	1470.4	1483.5	1489.2	1483.5	1470.4	1448.9	1423.7	1389.7	1331.9	1272.0
-55°	1323.1	1347.0	1362.4	1370.3	1362.4	1347.0	1323.1	1294.5	1260.7	1200.1	1136.6
-57.5°	1144.6	1163.9	1175.7	1181.2	1175.7	1163.9	1144.6	1120.4	1091.2	1039.4	983.8
-60°	961.4	977.3	987.7	993.2	987.7	977.3	961.4	941.9	919.1	881.5	838.2
-62.5°	796.3	808.0	818.2	825.5	818.2	808.0	796.3	780.9	761.9	730.9	692.7
-65°	633.3	643.7	651.1	655.4	651.1	643.7	633.3	619.7	603.0	577.8	545.4
-67.5°	476.0	484.5	491.5	496.0	491.5	484.5	476.0	465.0	451.5	432.7	408.3
-70°	331.9	338.2	344.3	348.5	344.3	338.2	331.9	323.7	313.4	299.9	281.9
-72.5°	199.9	203.8	205.6	205.8	205.6	203.8	199.9	194.5	187.7	178.6	165.6
-75°	89.2	89.4	91.3	92.8	91.3	89.4	89.2	88.3	86.8	84.0	78.6
-77.5°	43.0	43.7	44.5	45.2	44.5	43.7	43.0	42.1	41.1	39.8	37.8
-80°	26.8	27.3	27.4	27.4	27.4	27.3	26.8	26.3	25.7	25.0	24.3
-82.5°	18.5	18.9	19.0	19.0	19.0	18.9	18.5	18.1	17.6	17.2	16.7
-85°	11.8	11.9	11.9	11.9	11.9	11.9	11.8	11.8	11.7	11.6	11.3
-87.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.2	8.2	8.2
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.9	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	5.9	5.9	5.9	5.6	5.4	5.1	4.8	4.8	4.8	4.8	4.8
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.4	1.4	1.4
80°	1.2	1.2	1.2	1.4	1.5	1.5	1.6	1.8	1.9	2.1	2.2
77.5°	1.7	1.8	1.9	2.1	2.3	2.4	2.6	2.7	2.9	3.0	3.0
75°	2.6	2.8	3.1	3.4	3.6	3.5	3.5	3.4	3.4	3.5	3.5
72.5°	5.5	5.5	5.6	6.0	6.0	6.3	6.3	5.9	5.2	4.3	3.6
70°	8.7	9.2	10.2	11.5	12.3	12.5	12.2	11.2	9.6	8.4	6.7
67.5°	10.9	11.9	13.7	15.8	17.2	18.3	19.2	19.4	18.5	16.7	12.0
65°	11.5	12.7	14.4	16.1	18.1	20.7	24.4	26.3	26.4	25.1	19.4
62.5°	10.2	11.7	13.1	14.7	16.5	19.3	23.5	27.4	31.0	32.0	26.0
60°	8.3	9.6	10.6	12.0	13.8	17.5	22.1	26.6	30.9	31.1	29.2
57.5°	6.8	7.6	8.7	9.7	10.5	13.7	18.8	25.0	30.2	29.2	28.1
55°	5.9	6.6	7.6	8.6	9.7	11.6	14.5	19.1	24.7	26.6	25.6
52.5°	7.0	7.1	7.4	7.9	8.9	10.3	12.0	15.2	18.0	20.6	22.3
50°	8.2	8.2	8.2	8.2	8.9	9.5	10.7	12.5	14.4	16.5	18.2
47.5°	10.6	10.6	9.7	9.4	10.9	10.3	10.8	11.6	13.4	14.0	15.8
45°	17.8	17.6	14.4	15.2	16.5	16.4	13.6	14.8	14.9	15.1	14.3
42.5°	57.8	40.0	30.5	27.5	26.0	25.9	24.3	22.6	21.0	18.6	18.7
40°	110.6	94.3	72.7	49.0	40.9	37.9	39.2	34.2	30.8	26.7	27.8
37.5°	121.0	85.9	99.4	91.7	66.9	62.4	63.8	54.7	42.7	49.9	48.7
35°	130.6	121.7	136.1	134.8	108.5	124.5	109.9	88.9	78.5	89.6	80.7
32.5°	245.7	253.4	240.2	226.7	228.7	226.2	200.3	150.3	151.7	151.0	132.8
30°	480.8	467.9	428.6	406.2	413.5	375.3	325.4	316.4	278.5	228.5	199.3
27.5°	904.6	777.2	712.9	725.6	670.6	592.3	567.1	550.6	449.9	356.4	284.4
25°	1555.7	1348.6	1241.0	1185.0	1054.3	942.8	898.1	836.7	707.0	521.5	395.7
22.5°	2471.3	2241.1	2027.1	1775.1	1599.5	1459.6	1308.1	1162.3	1008.7	759.6	564.6
20°	3981.8	3386.3	2983.8	2566.1	2241.7	2030.2	1776.3	1526.9	1315.3	1060.0	758.9
17.5°	7024.6	4973.1	3965.6	3348.6	2917.8	2622.3	2219.2	1851.6	1609.2	1379.9	966.9
15°	10836.1	7088.8	5117.1	4174.7	3524.5	2976.9	2564.8	2141.6	1891.5	1672.5	1217.7
12.5°	16464.9	9727.3	6183.2	4773.7	3892.9	3292.7	2856.8	2444.5	2120.1	1823.6	1396.5
10°	21592.7	12833.6	7798.5	5456.2	4292.9	3574.0	3044.8	2560.9	2182.4	1903.5	1545.5
7.5°	27691.8	16074.0	9401.1	6049.2	4634.2	3723.6	3077.9	2576.8	2219.2	1960.2	1665.9
5°	31205.3	18418.0	10502.1	6515.2	4922.7	3862.9	3091.1	2548.6	2233.9	1997.1	1758.7
2.5°	33235.8	19815.7	11137.3	6841.1	5134.4	3999.7	3126.3	2552.8	2251.9	2021.4	1794.4
0°	34407.0	19845.3	11270.4	6896.6	5180.2	4143.0	3199.7	2595.5	2267.2	2036.4	1806.8
-2.5°	33281.4	19848.4	11098.8	6783.3	5141.6	4124.6	3239.5	2641.6	2303.6	2045.0	1801.9
-5°	31045.4	18261.2	10348.0	6441.4	4903.7	3940.4	3171.2	2623.8	2294.7	2032.6	1776.2
-7.5°	27003.8	15800.8	9183.7	5955.9	4565.6	3681.3	3024.5	2532.2	2208.7	1962.8	1695.3
-10°	21129.1	12493.6	7538.3	5251.1	4131.9	3406.6	2853.7	2415.7	2111.9	1885.4	1599.2
-12.5°	16013.1	9433.5	5835.0	4411.1	3637.0	3100.0	2669.4	2290.0	2005.5	1801.9	1490.9
-15°	10748.9	7027.8	4981.7	3895.6	3236.4	2829.3	2511.9	2210.8	1966.9	1738.2	1372.9
-17.5°	8075.5	5382.3	4167.0	3499.4	2996.5	2642.0	2406.0	2171.2	1946.0	1687.5	1263.4
-20°	5963.0	4645.2	3788.4	3229.2	2833.3	2551.9	2330.0	2136.2	1912.7	1563.5	1130.5



REPORT NUMBER: P731314 (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°	5041.9	4200.8	3531.2	3031.9	2713.2	2475.5	2275.8	2091.4	1864.7	1399.8	983.6
-25°	4396.6	3815.2	3336.1	2992.9	2650.2	2388.0	2222.4	2031.3	1680.0	1215.8	846.3
-27.5°	3939.1	3526.4	3288.6	2979.3	2659.3	2366.3	2161.4	1936.7	1470.1	1046.2	832.3
-30°	3657.3	3426.5	3216.4	2978.1	2670.5	2379.0	2116.9	1691.2	1255.9	902.1	822.0
-32.5°	3511.8	3307.4	3112.1	2915.0	2639.2	2340.0	1895.7	1428.0	1015.2	885.3	804.1
-35°	3362.7	3149.5	2952.5	2752.7	2536.5	2072.4	1599.2	1147.2	945.7	860.8	780.0
-37.5°	3172.9	2945.6	2745.0	2515.7	2137.9	1699.5	1235.8	1016.0	916.8	829.1	742.0
-40°	2929.0	2714.8	2397.0	2063.2	1665.6	1241.5	1079.6	981.0	888.0	787.0	695.8
-42.5°	2512.5	2221.9	1895.2	1526.7	1221.8	1127.8	1036.6	948.2	849.8	743.1	647.7
-45°	1925.3	1623.2	1336.7	1246.9	1157.0	1076.5	999.3	900.3	795.7	693.7	598.1
-47.5°	1414.5	1330.3	1248.8	1177.4	1103.0	1023.7	930.2	835.0	733.3	638.4	557.7
-50°	1301.7	1237.7	1175.1	1109.0	1021.0	932.6	845.0	757.2	668.2	589.2	513.1
-52.5°	1208.3	1138.0	1066.0	991.9	914.3	832.7	752.1	682.7	609.5	534.3	463.7
-55°	1070.7	1005.4	939.5	872.0	805.5	741.2	676.7	610.1	541.5	472.8	407.9
-57.5°	927.0	871.1	817.6	765.2	714.5	652.9	588.6	526.5	466.5	404.9	348.1
-60°	793.2	747.4	699.9	651.4	602.1	548.8	493.0	438.5	385.4	339.9	294.9
-62.5°	652.0	609.2	569.2	528.4	486.5	442.3	396.9	356.9	318.2	279.1	236.1
-65°	510.9	474.4	440.2	410.5	380.3	349.6	315.0	279.6	244.8	211.1	173.3
-67.5°	382.9	357.0	332.6	307.9	281.0	252.8	223.0	194.1	169.2	144.9	115.4
-70°	262.2	240.8	219.4	197.7	177.9	159.3	140.5	121.0	100.6	84.8	68.9
-72.5°	151.7	137.0	122.6	109.2	95.1	85.7	76.6	66.4	55.2	43.1	34.2
-75°	72.7	66.3	60.0	54.3	47.7	40.4	36.4	33.7	30.9	28.1	25.3
-77.5°	35.7	33.7	31.8	30.4	28.8	26.9	24.9	23.1	21.9	20.8	19.7
-80°	23.5	22.7	21.8	21.0	20.2	19.4	18.6	17.8	17.1	16.4	15.6
-82.5°	16.2	15.6	15.0	14.7	14.3	13.9	13.4	13.0	12.5	12.0	11.4
-85°	10.9	10.6	10.2	10.1	9.9	9.7	9.4	9.2	9.0	8.8	8.6
-87.5°	8.2	8.1	8.1	7.7	7.4	7.0	6.7	6.6	6.6	6.5	6.4
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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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°	4.8	4.8	4.8	4.8	4.5	4.2	3.9	3.6	3.6	3.6	3.6
87.5°	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.4	2.4	2.4
85°	1.3	1.4	1.4	1.4	1.6	1.8	2.1	2.4	2.4	2.4	2.4
82.5°	1.5	1.8	2.0	2.1	2.1	2.1	2.2	2.4	2.4	2.4	2.4
80°	2.1	2.2	2.3	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6
77.5°	2.7	2.5	2.4	2.4	2.4	2.4	2.4	2.5	2.7	2.9	2.9
75°	3.2	2.8	2.5	2.4	2.5	2.4	2.4	2.5	2.8	3.1	3.2
72.5°	3.5	3.2	2.8	2.5	2.7	2.7	2.6	2.5	2.8	3.1	3.4
70°	5.1	3.9	3.4	3.1	3.1	3.1	3.1	2.9	2.9	3.1	3.4
67.5°	7.8	5.9	4.5	3.7	3.4	3.4	3.5	3.3	3.1	3.2	3.5
65°	13.9	9.3	5.8	4.6	3.9	3.6	3.6	3.6	3.4	3.3	3.5
62.5°	19.9	13.9	9.5	6.1	4.4	3.8	3.6	3.8	3.6	3.5	3.5
60°	26.0	19.4	13.5	9.5	6.0	3.9	3.7	3.9	3.9	3.6	3.6
57.5°	26.2	24.1	19.0	13.3	8.8	5.2	3.9	4.1	4.1	3.8	3.6
55°	25.0	23.8	22.7	18.1	12.2	7.6	4.8	4.4	4.4	4.1	3.7
52.5°	22.2	23.4	23.6	21.6	16.3	10.3	7.0	4.7	4.7	4.5	4.0
50°	19.2	22.4	24.2	23.2	19.9	14.2	9.0	6.3	5.1	4.8	4.3
47.5°	18.1	21.7	24.2	24.8	22.1	18.0	12.1	7.9	5.4	5.2	4.6
45°	18.3	21.3	24.5	25.8	24.6	20.7	15.4	9.3	6.7	5.5	5.0
42.5°	19.7	22.3	24.5	27.2	26.2	22.9	18.6	12.0	7.8	5.9	5.3
40°	26.7	24.9	25.5	28.4	28.1	25.0	20.7	14.8	8.8	6.4	5.6
37.5°	36.2	31.7	28.7	32.5	31.0	27.2	22.6	17.4	10.2	7.2	5.8
35°	61.7	42.5	42.2	42.4	36.9	29.8	24.3	19.6	12.6	7.9	6.1
32.5°	94.1	73.3	71.3	59.4	44.9	32.7	26.5	21.6	15.0	8.6	6.4
30°	156.7	140.9	111.6	81.3	57.5	40.4	29.6	23.6	17.4	9.2	6.7
27.5°	259.7	224.3	166.1	118.4	78.7	50.2	34.0	25.7	19.8	10.2	7.2
25°	366.2	321.0	247.0	166.0	103.1	70.1	38.9	27.9	21.7	12.1	7.7
22.5°	469.2	421.5	338.4	220.0	138.9	95.7	49.8	31.8	23.4	13.9	8.1
20°	569.6	524.5	431.9	269.3	180.9	127.0	68.4	35.9	25.1	15.7	8.4
17.5°	680.4	603.7	484.4	327.0	222.6	158.6	90.0	40.3	26.8	17.3	8.7
15°	816.6	650.6	535.1	378.4	259.7	190.1	113.7	44.8	28.4	18.8	9.1
12.5°	938.5	694.0	585.0	423.4	292.5	221.3	138.8	49.4	29.9	20.5	9.6
10°	1052.9	733.8	633.1	462.2	321.5	251.7	164.4	54.4	32.3	22.5	10.1
7.5°	1157.4	770.2	678.4	495.1	345.3	272.6	180.3	60.6	34.8	24.2	10.6
5°	1242.7	799.2	710.0	517.5	356.9	282.7	191.8	66.6	37.3	25.9	11.1
2.5°	1282.8	819.1	729.4	534.2	366.8	290.6	200.3	72.3	39.5	27.3	11.5
0°	1303.7	836.2	742.2	546.0	374.7	296.2	205.8	77.3	41.6	28.5	11.9
-2.5°	1306.7	840.0	745.5	557.9	387.2	304.3	213.1	91.1	52.3	35.1	15.6
-5°	1290.3	840.5	743.1	564.7	397.2	310.2	217.9	103.9	62.6	41.2	19.2
-7.5°	1234.3	827.8	730.4	565.2	404.3	313.8	220.8	115.8	72.2	46.9	22.5
-10°	1155.3	805.6	705.8	555.6	411.1	318.8	223.1	126.5	81.0	51.9	25.5
-12.5°	1058.8	780.7	680.6	544.0	416.1	325.7	230.6	137.2	88.8	56.1	28.1
-15°	945.2	753.0	656.1	531.3	419.1	331.3	235.8	146.7	95.9	59.9	30.2
-17.5°	820.5	722.9	633.9	518.5	420.1	335.8	238.9	154.0	101.9	63.2	32.2
-20°	792.7	705.0	614.2	506.3	419.4	339.4	239.8	158.8	106.6	65.5	33.9



REPORT NUMBER: P731314 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	782.1	697.0	601.6	500.7	418.3	342.4	238.7	161.0	109.9	66.5	34.8
-25°	771.1	687.3	587.3	492.9	418.1	338.3	237.9	160.4	111.7	66.3	35.0
-27.5°	758.2	673.6	569.4	480.5	409.7	332.0	236.4	161.9	111.8	64.8	34.3
-30°	743.6	650.5	551.4	465.1	398.2	315.1	231.1	161.6	109.8	63.4	32.7
-32.5°	722.9	623.8	528.9	450.0	379.2	296.6	219.2	159.3	106.0	61.5	31.6
-35°	687.7	593.0	501.8	431.3	357.0	279.2	206.5	154.9	100.3	58.3	30.3
-37.5°	648.6	558.1	477.9	407.9	333.8	260.0	196.7	145.0	92.8	53.9	28.2
-40°	607.5	524.0	451.6	381.7	310.7	239.3	184.9	132.8	85.7	48.1	25.4
-42.5°	564.1	492.0	422.5	354.7	286.3	223.9	170.9	118.7	76.7	43.2	21.8
-45°	525.8	457.2	391.0	325.5	261.4	206.3	153.2	103.4	66.1	38.3	19.0
-47.5°	484.6	420.5	356.6	293.8	239.0	185.8	133.4	90.0	54.4	32.4	17.7
-50°	442.6	380.7	319.4	264.0	213.4	161.4	112.9	75.1	46.3	25.4	16.2
-52.5°	398.0	337.6	283.3	233.4	183.3	134.8	94.2	59.4	37.5	21.6	14.5
-55°	347.7	295.8	247.3	198.2	150.4	110.1	73.8	48.4	28.0	19.2	12.7
-57.5°	300.0	253.9	205.7	159.2	119.2	84.6	57.3	36.6	23.5	16.7	12.0
-60°	250.4	204.4	159.9	122.5	88.7	62.4	43.0	27.1	20.3	14.3	11.3
-62.5°	193.7	153.4	118.6	86.5	63.2	44.9	29.8	23.2	16.9	13.4	10.5
-65°	139.5	107.2	77.8	59.7	42.7	30.1	25.0	19.1	15.2	12.3	9.8
-67.5°	86.9	68.6	51.6	36.0	29.2	24.6	20.0	16.8	13.9	11.3	9.2
-70°	53.0	38.1	31.2	27.3	23.2	19.5	17.5	15.1	12.5	10.5	8.6
-72.5°	30.8	27.5	24.2	20.9	19.0	17.1	15.4	13.5	11.5	9.6	7.9
-75°	22.5	20.9	19.4	17.8	16.2	14.7	13.5	12.2	10.4	8.8	7.3
-77.5°	18.5	17.2	15.9	14.7	13.7	12.7	11.8	10.9	9.3	7.9	6.6
-80°	14.6	13.7	12.9	12.1	11.3	10.7	10.1	9.5	8.1	6.9	5.8
-82.5°	10.8	10.4	10.1	9.7	9.3	8.9	8.5	8.0	7.0	6.0	5.2
-85°	8.4	8.1	7.9	7.6	7.4	7.1	6.9	6.5	5.8	5.2	4.7
-87.5°	6.4	6.3	6.2	6.1	5.9	5.6	5.4	5.1	4.7	4.4	4.1
-90°	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.4	2.4	2.4



REPORT NUMBER: P731314 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	3.6	3.6	3.6	3.6	3.6	3.0	2.4
87.5°	2.4	2.5	2.5	2.5	2.5	2.5	2.4
85°	2.4	2.5	2.6	2.6	2.6	2.5	2.4
82.5°	2.4	2.6	2.7	2.8	2.7	2.6	2.4
80°	2.5	2.7	2.8	2.9	2.8	2.6	2.4
77.5°	2.8	2.8	2.9	3.0	2.9	2.7	2.4
75°	3.1	3.0	3.1	3.1	3.0	2.7	2.4
72.5°	3.4	3.2	3.2	3.2	3.1	2.8	2.4
70°	3.6	3.4	3.3	3.4	3.2	2.8	2.4
67.5°	3.6	3.5	3.4	3.4	3.3	2.9	2.4
65°	3.6	3.6	3.4	3.4	3.4	2.9	2.4
62.5°	3.6	3.6	3.5	3.5	3.5	3.0	2.4
60°	3.6	3.6	3.6	3.5	3.6	3.0	2.4
57.5°	3.7	3.6	3.6	3.5	3.6	3.0	2.4
55°	3.7	3.6	3.6	3.6	3.6	3.1	2.4
52.5°	3.8	3.6	3.6	3.6	3.6	3.1	2.4
50°	3.9	3.7	3.6	3.6	3.6	3.2	2.4
47.5°	4.1	3.8	3.6	3.6	3.6	3.2	2.4
45°	4.4	4.0	3.6	3.6	3.6	3.2	2.4
42.5°	4.6	4.1	3.6	3.6	3.6	3.3	2.4
40°	4.9	4.3	3.7	3.6	3.6	3.3	2.4
37.5°	5.1	4.4	3.8	3.6	3.6	3.4	2.4
35°	5.4	4.6	3.9	3.6	3.6	3.4	2.4
32.5°	5.6	4.8	4.0	3.6	3.6	3.4	2.4
30°	5.8	5.0	4.1	3.6	3.6	3.4	2.4
27.5°	6.0	5.2	4.3	3.6	3.6	3.5	2.4
25°	6.2	5.3	4.3	3.6	3.6	3.5	2.4
22.5°	6.4	5.5	4.4	3.6	3.6	3.5	2.4
20°	6.6	5.6	4.5	3.6	3.6	3.5	2.4
17.5°	6.8	5.6	4.6	3.6	3.6	3.5	2.4
15°	7.0	5.7	4.6	3.6	3.6	3.6	2.4
12.5°	7.3	5.8	4.7	3.6	3.6	3.6	2.4
10°	7.5	5.8	4.7	3.6	3.6	3.6	2.4
7.5°	7.7	5.9	4.8	3.6	3.6	3.6	2.4
5°	7.9	5.9	4.8	3.6	3.6	3.6	2.4
2.5°	8.1	5.9	4.8	3.6	3.6	3.6	2.4
0°	8.3	5.9	4.8	3.6	3.6	3.6	2.4
-2.5°	9.7	6.4	5.0	3.8	3.7	3.6	2.4
-5°	11.1	6.9	5.2	3.9	3.7	3.6	2.4
-7.5°	12.3	7.4	5.4	4.0	3.8	3.6	2.4
-10°	13.5	7.8	5.5	4.2	3.8	3.6	2.4
-12.5°	14.5	8.2	5.7	4.3	3.8	3.6	2.4
-15°	15.3	8.6	5.8	4.5	3.9	3.6	2.4
-17.5°	15.9	8.9	6.0	4.6	3.9	3.6	2.4
-20°	16.5	9.1	6.1	4.7	4.0	3.5	2.4



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-3S-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	17.1	9.2	6.2	4.8	4.0	3.5	2.4
-25°	17.2	9.3	6.3	4.9	4.0	3.5	2.4
-27.5°	17.0	9.4	6.4	4.9	4.0	3.5	2.4
-30°	16.3	9.3	6.5	5.0	4.0	3.5	2.4
-32.5°	15.1	9.1	6.5	5.0	4.0	3.5	2.4
-35°	14.5	8.9	6.6	5.1	4.0	3.4	2.4
-37.5°	14.2	8.6	6.6	5.1	4.0	3.4	2.4
-40°	13.6	8.6	6.5	5.1	4.0	3.4	2.4
-42.5°	12.9	8.5	6.5	5.1	4.0	3.4	2.4
-45°	12.1	8.4	6.4	5.0	4.0	3.4	2.4
-47.5°	11.0	8.3	6.3	5.0	3.9	3.4	2.4
-50°	10.6	8.0	6.2	4.9	3.9	3.3	2.4
-52.5°	10.2	7.8	6.1	4.8	3.8	3.3	2.4
-55°	9.8	7.5	6.0	4.7	3.7	3.3	2.4
-57.5°	9.3	7.3	5.8	4.6	3.7	3.3	2.4
-60°	8.7	7.1	5.6	4.5	3.6	3.3	2.4
-62.5°	8.4	6.8	5.4	4.3	3.6	3.2	2.4
-65°	7.9	6.5	5.2	4.2	3.6	3.2	2.4
-67.5°	7.5	6.1	5.0	4.0	3.6	3.2	2.4
-70°	7.0	5.8	4.7	3.9	3.6	3.2	2.4
-72.5°	6.5	5.4	4.5	3.8	3.6	3.2	2.4
-75°	5.9	5.0	4.2	3.8	3.6	3.1	2.4
-77.5°	5.4	4.6	4.1	3.8	3.6	3.1	2.4
-80°	4.8	4.4	4.0	3.7	3.6	3.1	2.4
-82.5°	4.5	4.2	3.9	3.7	3.6	3.1	2.4
-85°	4.2	4.0	3.8	3.7	3.6	3.1	2.4
-87.5°	3.9	3.8	3.7	3.6	3.6	3.0	2.4
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4

(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

