

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: P731319 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-70-4S-CV2**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731319 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-25)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-70-4S-CV2
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

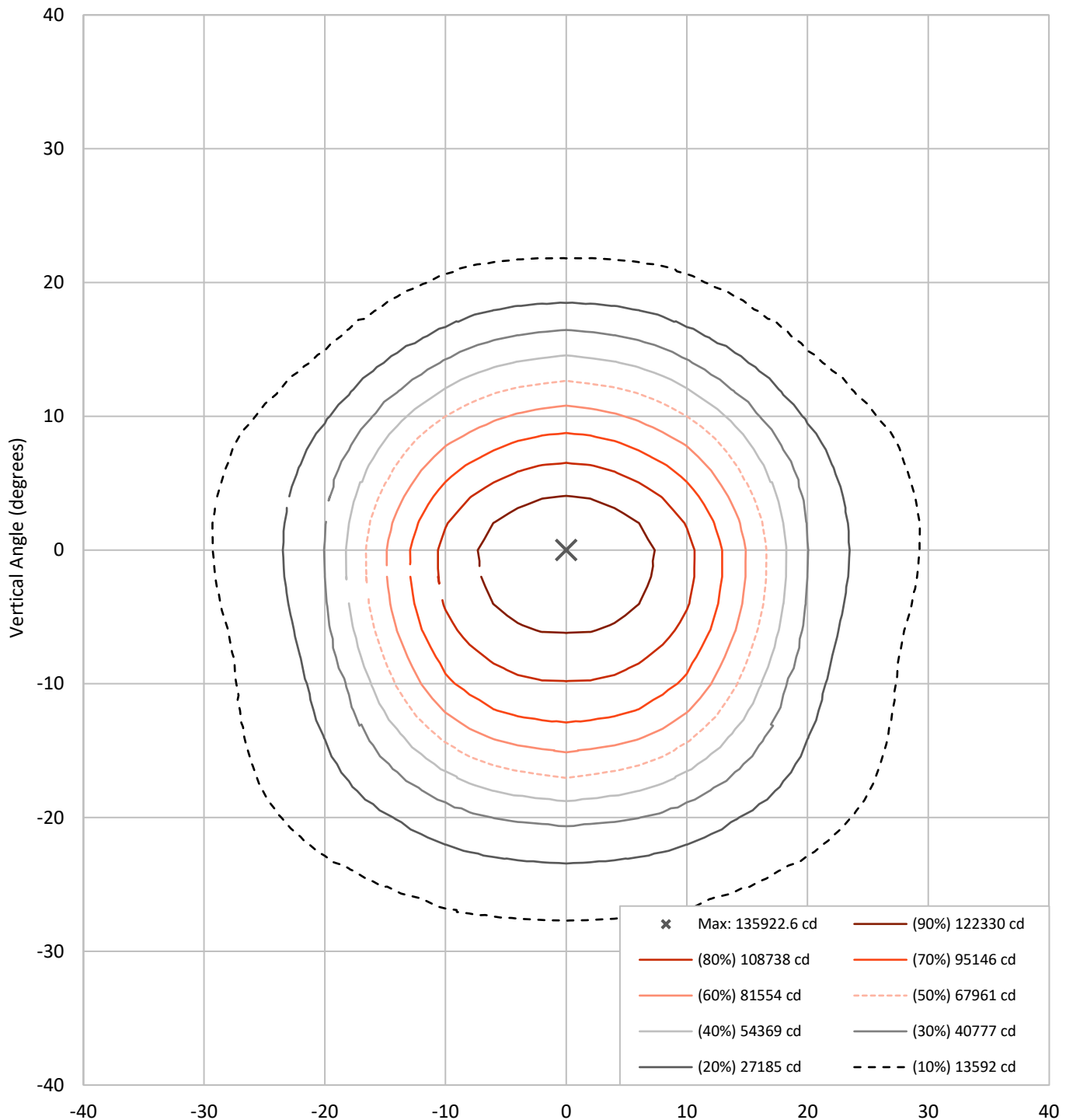
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	43501.4 lumens	Max Intensity:	135922.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	125.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.2°H x 29.7°V	Field Angle (10%):	58.6°H x 49.3°V
Beam Lumens:	23870.6 lumens	Field Lumens:	38245.9 lumens
Beam Efficiency:	54.9%	Field Efficiency:	87.9%

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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CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-CV2

Iso-Candela Plot





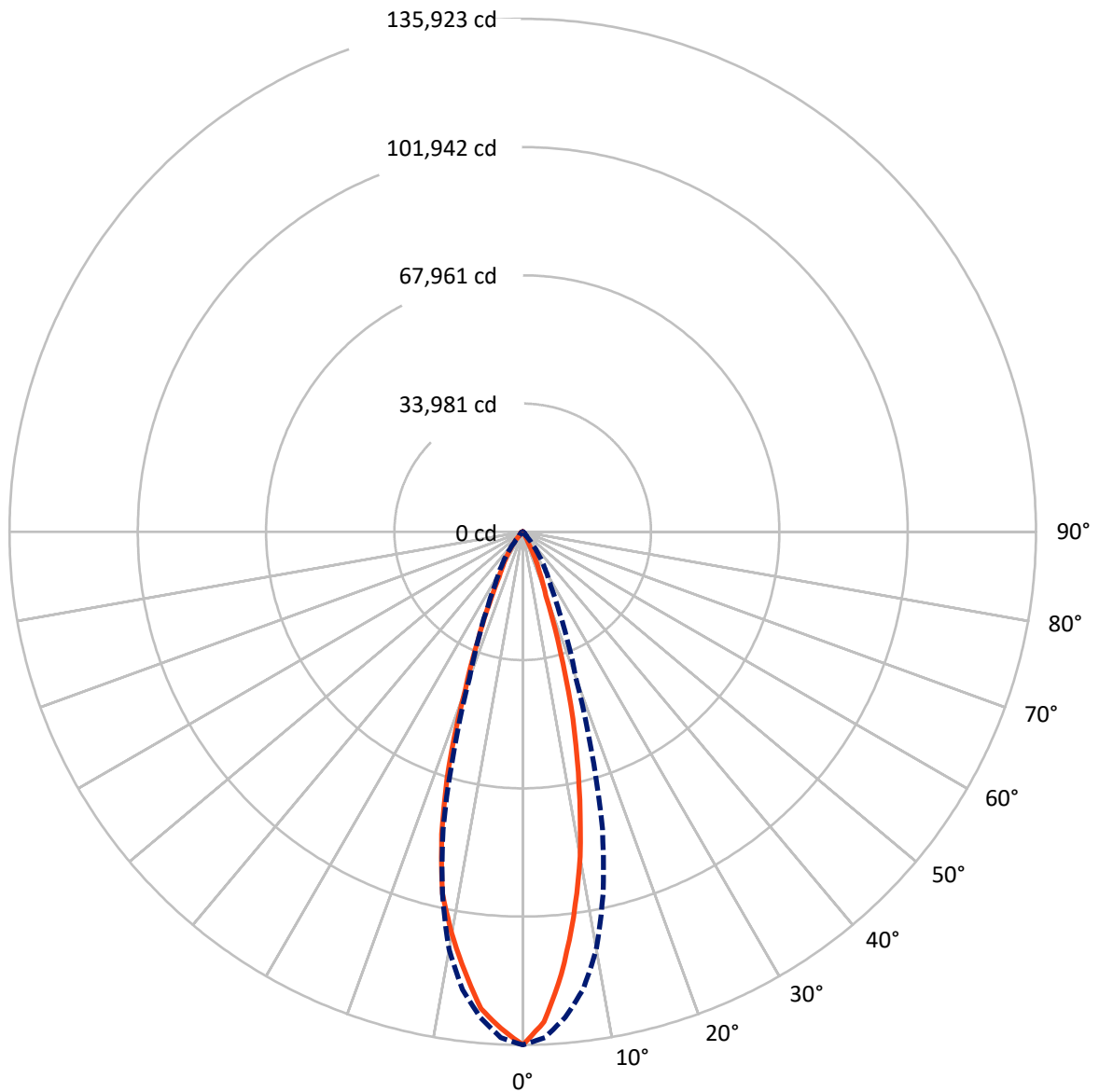
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Lumen Table

90	0.1		0.3		0.4		0.3		0.3		0.3		0.4		0.3		0.1	
80	0.1		0.3		0.4		0.3		0.3		0.3		0.4		0.3		0.1	
70	0.1	0.1	0.1	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.1	0.1	0.1		
60		0.1	0.2	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.2	0.1			
50	0.1	0.1	0.2	0.4	0.4	0.5	0.7	0.8	0.8	0.7	0.5	0.4	0.4	0.2	0.1	0.1		
40		0.1	0.5	1.1	1.8	4.1	8.2	11.3	11.3	8.2	4.1	1.8	1.1	0.5	0.1			
30	0.1	0.2	1.6	4.3	15.9	58.0	137.4	232.4	232.4	137.4	58.0	15.9	4.3	1.6	0.2	0.1		
20		0.5	3.6	11.5	70.4	243.9	748.2	1413.7	1413.7	748.2	243.9	70.4	11.5	3.6	0.5			
10	0.2	1.0	6.1	21.6	164.0	584.2	1938.0	3274.6	3274.6	1938.0	584.2	164.0	21.6	6.1	1.0	0.2		
0		1.7	8.1	25.6	171.0	602.5	2175.2	3595.1	3595.1	2175.2	602.5	171.0	25.6	8.1	1.7			
-10	0.3	2.0	8.2	22.1	133.4	444.1	1299.1	2269.5	2269.5	1299.1	444.1	133.4	22.1	8.2	2.0	0.3		
-20		1.8	7.1	15.2	57.6	210.8	438.7	656.6	656.6	438.7	210.8	57.6	15.2	7.1	1.8			
-30	0.2	1.4	5.4	10.5	19.8	56.9	129.3	182.6	182.6	129.3	56.9	19.8	10.5	5.4	1.4	0.2		
-40		0.9	3.6	8.0	13.0	19.8	29.0	37.9	37.9	29.0	19.8	13.0	8.0	3.6	0.9			
-50	0.2	0.4	1.9	5.3	9.6	13.9	17.9	20.2	20.2	17.9	13.9	9.6	5.3	1.9	0.4	0.2		
-60		0.2	0.7	2.2	4.7	8.0	11.5	13.5	13.5	11.5	8.0	4.7	2.2	0.7	0.2			
-70	0.1	0.5	1.7	4.6	6.4	4.6	1.7	0.5	0.1	0.1								
-80		0.1	0.5	1.7	4.6	6.4	4.6	1.7	0.5		0.1							
-90	0.1		0.5		1.7		4.6		6.4		4.6		1.7		0.5		0.1	

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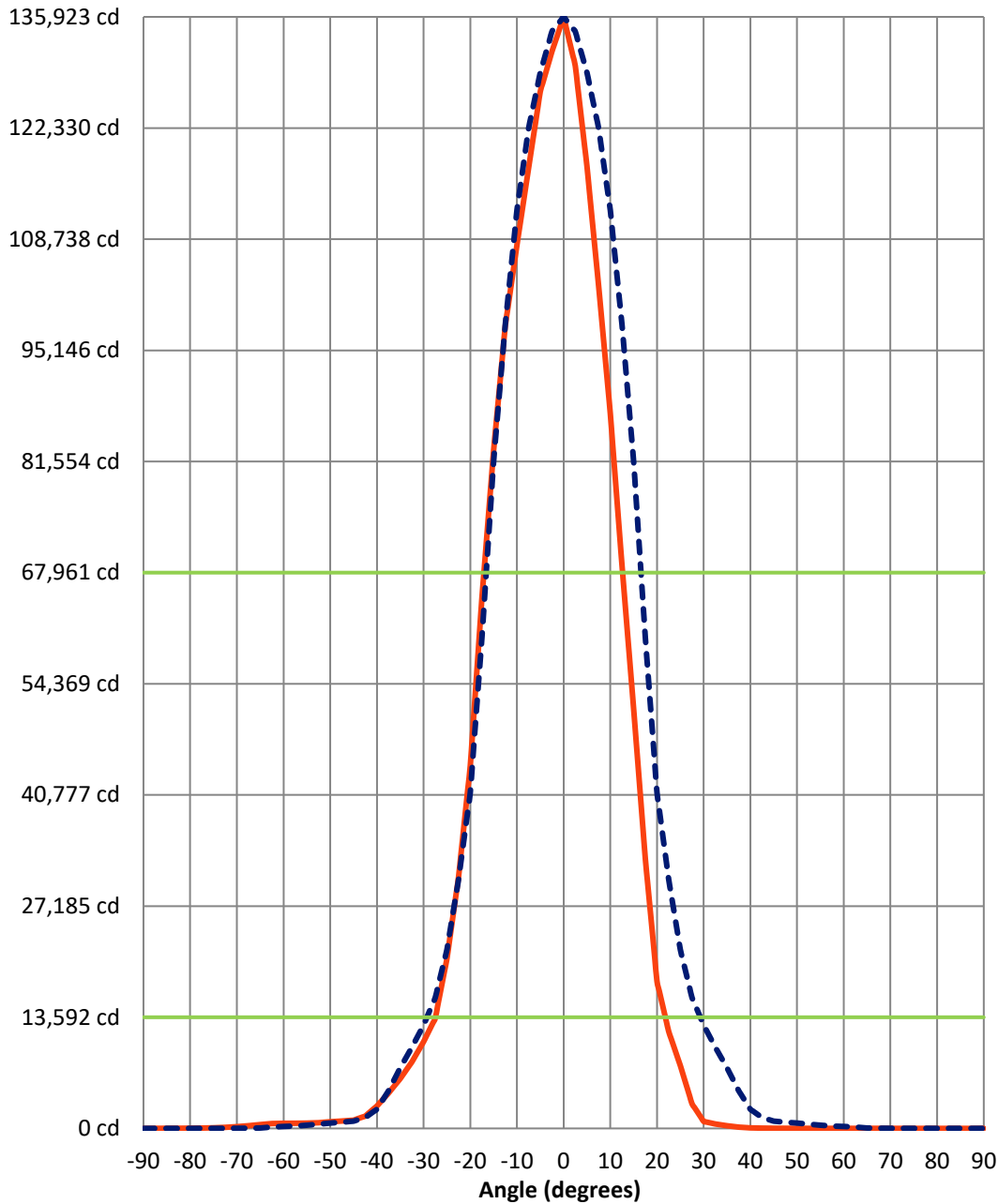
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 33.2°
 V Angle: 29.7°
 Lumens: 23870.6
 Efficiency: 54.9%

Field:
 H Angle: 58.6°
 V Angle: 49.3°
 Lumens: 38245.9
 Efficiency: 87.9%

Spill:
 Lumens: 5255.5
 Efficiency: 12.1%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.0	5.0	5.0	4.8
77.5°	4.8	4.8	4.8	4.8	4.8	4.9	5.1	5.3	5.3	5.1	4.9
75°	4.8	4.8	4.8	4.8	4.8	5.1	5.4	5.6	5.5	5.2	4.9
72.5°	4.8	4.8	4.8	4.8	5.0	5.4	5.7	5.8	5.5	5.2	4.9
70°	4.8	4.8	4.8	4.8	5.2	5.6	6.0	5.8	5.5	5.3	5.3
67.5°	4.8	4.8	4.8	5.0	5.4	5.9	6.0	5.9	5.6	5.5	5.7
65°	4.8	4.8	4.8	5.1	5.6	6.0	6.0	5.9	5.7	5.8	6.0
62.5°	4.8	4.8	4.8	5.3	5.8	6.0	6.0	5.9	5.9	6.0	6.0
60°	4.8	4.8	4.8	5.4	6.0	6.0	6.0	6.0	6.0	6.0	6.0
57.5°	4.8	4.8	4.9	5.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0
55°	4.8	4.8	5.0	5.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0
52.5°	4.8	4.8	5.1	5.8	6.0	6.0	6.0	6.0	6.0	6.0	6.0
50°	4.8	4.8	5.1	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.5
47.5°	4.8	4.8	5.2	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.1
45°	4.8	4.8	5.3	6.0	6.0	6.0	6.0	6.0	6.0	6.4	7.5
42.5°	4.8	4.8	5.4	6.0	6.0	6.0	6.0	6.0	6.1	6.7	7.8
40°	4.8	4.8	5.4	6.0	6.0	6.0	6.0	6.1	6.3	7.0	8.1
37.5°	4.8	4.8	5.5	6.0	6.0	6.0	6.0	6.3	6.7	7.4	8.3
35°	4.8	4.8	5.6	6.0	6.0	6.0	6.0	6.4	7.0	7.8	8.5
32.5°	4.8	4.8	5.6	6.0	6.0	6.0	6.0	6.6	7.3	8.1	9.1
30°	4.8	4.8	5.7	6.0	6.0	6.0	6.2	6.8	7.6	8.5	9.9
27.5°	4.8	4.8	5.7	6.0	6.0	6.0	6.3	7.0	7.9	8.8	10.8
25°	4.8	4.8	5.8	6.0	6.0	6.0	6.4	7.3	8.2	9.4	12.0
22.5°	4.8	4.8	5.8	6.0	6.0	6.0	6.6	7.5	8.5	10.3	14.5
20°	4.8	4.8	5.9	6.0	6.0	6.1	6.7	7.7	8.7	11.2	17.0
17.5°	4.8	4.8	5.9	6.0	6.0	6.2	6.9	7.9	9.0	12.2	19.6
15°	4.8	4.8	5.9	6.0	6.0	6.3	7.0	8.2	9.2	13.2	22.2
12.5°	4.8	4.8	5.9	6.0	6.0	6.5	7.1	8.4	9.9	14.2	24.7
10°	4.8	4.8	6.0	6.0	6.0	6.6	7.1	8.7	10.9	16.5	28.1
7.5°	4.8	4.8	6.0	6.0	6.0	6.8	7.2	8.9	12.1	19.1	33.8
5°	4.8	4.8	6.0	6.0	6.0	6.9	7.2	9.2	13.3	21.6	39.5
2.5°	4.8	4.8	6.0	6.0	6.0	7.1	7.2	9.4	14.5	24.1	45.1
0°	4.8	4.8	6.0	6.0	6.0	7.2	7.2	9.6	15.6	26.4	50.3
-2.5°	4.8	4.8	6.0	6.0	6.0	7.2	7.8	11.5	20.1	34.9	65.1
-5°	4.8	4.8	6.0	6.0	6.0	7.2	8.5	13.2	24.4	43.1	79.1
-7.5°	4.8	4.8	6.0	6.0	6.0	7.1	9.0	14.9	28.4	50.6	91.8
-10°	4.8	4.8	6.0	6.0	6.0	7.1	9.5	16.4	31.9	57.3	103.0
-12.5°	4.8	4.8	5.9	6.0	6.0	7.1	9.9	17.6	34.8	63.0	110.3
-15°	4.8	4.8	5.9	6.0	6.0	7.0	10.2	18.6	37.2	67.4	115.2
-17.5°	4.8	4.8	5.9	6.0	6.0	6.9	10.4	19.6	39.2	70.7	118.4
-20°	4.8	4.8	5.9	6.0	6.0	6.8	10.6	20.6	40.3	72.7	119.9



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.8	4.8	5.8	6.0	6.0	6.7	11.0	21.2	40.6	73.3	119.6
-25°	4.8	4.8	5.8	6.0	6.0	6.8	11.2	21.4	39.9	72.6	117.4
-27.5°	4.8	4.8	5.7	6.0	6.0	6.9	11.2	21.2	38.2	70.9	116.2
-30°	4.8	4.8	5.7	6.0	6.0	7.0	10.9	20.6	37.0	68.8	113.2
-32.5°	4.8	4.8	5.6	6.0	6.1	6.9	10.3	20.1	36.3	65.3	108.1
-35°	4.8	4.8	5.6	6.0	6.1	6.8	10.0	19.4	34.8	60.4	101.0
-37.5°	4.8	4.8	5.5	6.0	6.2	6.6	9.8	18.3	32.8	54.0	89.9
-40°	4.8	4.8	5.4	6.0	6.2	6.7	9.5	16.7	30.1	49.7	79.2
-42.5°	4.8	4.8	5.4	6.0	6.2	6.7	9.0	14.7	27.6	45.0	67.8
-45°	4.8	4.8	5.3	6.0	6.3	6.7	8.4	13.0	24.8	39.8	56.8
-47.5°	4.8	4.8	5.2	6.1	6.3	6.7	7.6	12.1	21.4	34.2	50.5
-50°	4.8	4.8	5.1	6.0	6.3	6.7	7.4	11.0	17.2	29.4	43.8
-52.5°	4.8	4.8	5.1	5.9	6.4	6.6	7.4	9.6	14.7	24.3	36.8
-55°	4.8	4.8	5.0	5.8	6.4	6.6	7.3	8.2	12.7	18.7	30.4
-57.5°	4.8	4.8	4.9	5.7	6.4	6.7	7.1	8.0	10.5	15.4	23.7
-60°	4.8	4.8	4.8	5.6	6.4	6.7	7.0	7.8	8.6	12.6	17.8
-62.5°	4.8	4.8	4.8	5.5	6.3	6.7	7.0	7.5	8.3	9.7	14.3
-65°	4.8	4.8	4.8	5.3	6.1	6.8	7.0	7.3	8.0	8.7	10.5
-67.5°	4.8	4.8	4.8	5.2	5.9	6.7	7.1	7.3	7.6	8.4	9.1
-70°	4.8	4.8	4.8	5.1	5.8	6.4	7.1	7.3	7.5	8.0	8.6
-72.5°	4.8	4.8	4.8	5.0	5.6	6.2	6.9	7.2	7.4	7.7	8.2
-75°	4.8	4.8	4.8	5.0	5.4	6.0	6.6	6.9	7.2	7.4	7.8
-77.5°	4.8	4.8	4.8	5.0	5.3	5.8	6.3	6.6	6.8	7.1	7.3
-80°	4.8	4.8	4.8	4.9	5.2	5.6	6.0	6.2	6.4	6.6	6.8
-82.5°	4.8	4.8	4.8	4.9	5.1	5.4	5.7	5.9	6.0	6.2	6.3
-85°	4.8	4.8	4.8	4.9	5.0	5.2	5.4	5.5	5.6	5.7	5.8
-87.5°	4.8	4.8	4.8	4.8	4.9	5.0	5.1	5.2	5.2	5.3	5.3
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



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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°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.5	4.2	3.9
87.5°	4.5	4.2	3.9	3.6	3.6	3.6	3.6	3.6	3.3	3.0	2.7
85°	4.5	4.2	4.0	3.8	3.8	3.8	3.7	3.6	3.4	3.3	3.2
82.5°	4.6	4.5	4.5	4.5	4.4	4.2	3.9	3.6	3.6	3.6	3.6
80°	4.8	4.8	4.8	4.8	4.6	4.3	4.0	3.7	3.6	3.6	3.7
77.5°	4.8	4.8	4.8	4.8	4.6	4.4	4.3	4.3	4.3	4.2	4.0
75°	4.8	4.8	4.9	4.8	4.7	4.7	4.8	4.8	4.6	4.3	4.0
72.5°	5.0	5.1	5.1	4.9	4.8	4.8	4.8	4.8	4.9	5.0	4.9
70°	5.5	5.5	5.3	5.0	4.8	5.0	5.6	6.2	6.7	6.7	6.9
67.5°	5.9	5.6	5.3	5.2	5.7	6.5	7.2	8.1	9.1	9.5	10.0
65°	6.0	5.7	5.7	6.2	7.1	8.0	9.1	10.3	12.9	14.5	15.3
62.5°	6.0	5.9	6.3	7.2	8.4	9.6	11.4	14.3	18.2	21.0	21.1
60°	6.0	6.1	7.0	8.3	9.6	11.2	14.0	18.5	24.3	28.7	26.2
57.5°	6.0	6.7	8.1	9.4	10.7	12.5	16.8	22.5	28.5	34.9	29.8
55°	6.3	7.6	9.0	10.2	11.8	14.2	18.6	24.0	30.6	32.4	26.7
52.5°	7.1	8.5	9.5	11.0	13.0	15.2	18.4	23.1	25.2	25.7	22.2
50°	7.8	8.9	10.0	11.7	13.8	15.6	16.6	19.4	20.2	19.2	17.3
47.5°	8.2	9.2	10.3	12.2	14.3	15.9	15.9	16.0	15.8	15.5	12.8
45°	8.6	9.6	10.6	12.7	15.0	16.4	15.6	13.4	15.2	14.7	14.0
42.5°	8.9	9.9	11.7	13.3	16.3	17.2	15.9	16.5	17.0	17.7	18.0
40°	9.2	10.3	13.2	16.3	18.0	18.5	20.4	21.9	21.3	23.3	24.5
37.5°	9.4	11.9	15.9	21.8	20.0	22.6	26.3	32.3	32.5	30.6	35.2
35°	9.7	13.8	22.6	29.0	27.5	29.1	38.9	46.8	49.2	46.5	49.5
32.5°	10.8	15.9	31.1	37.8	41.6	43.6	54.8	66.6	75.5	77.2	70.0
30°	13.0	23.6	40.8	48.3	59.5	70.2	78.0	92.3	110.6	124.9	130.7
27.5°	15.9	32.9	50.9	64.5	81.5	99.8	113.3	131.1	160.9	186.6	207.6
25°	19.0	45.7	62.2	84.3	109.5	133.3	154.0	183.8	223.3	265.8	339.7
22.5°	25.8	60.3	79.2	106.2	139.5	169.2	203.8	246.1	296.6	354.9	492.0
20°	37.0	74.6	99.7	130.6	171.7	206.9	255.6	309.6	378.6	503.0	735.6
17.5°	48.8	90.1	120.7	159.5	210.4	255.0	309.6	372.7	464.1	663.1	1121.2
15°	61.2	106.3	140.8	190.1	252.8	316.4	382.3	451.1	581.8	889.7	1612.3
12.5°	73.7	122.9	159.8	221.7	297.7	380.6	459.1	546.6	735.6	1279.1	2339.8
10°	86.0	139.7	177.8	253.6	344.0	446.1	535.2	638.3	895.5	1631.8	2990.4
7.5°	106.2	161.5	197.0	285.0	390.6	511.7	609.9	725.6	1051.7	1939.3	3589.6
5°	127.5	188.3	227.7	323.5	436.6	570.1	677.5	808.0	1199.6	2198.0	4151.6
2.5°	148.0	214.1	257.6	360.5	479.7	615.5	720.4	854.1	1278.7	2318.9	4498.8
0°	166.6	238.5	286.5	394.4	519.0	655.7	758.8	894.2	1326.9	2342.2	4610.1
-2.5°	189.2	265.3	316.4	421.3	540.5	679.3	783.1	924.7	1376.8	2473.2	4630.2
-5°	208.6	290.0	344.8	445.4	558.5	697.8	803.4	948.4	1400.1	2532.8	4532.8
-7.5°	224.3	312.7	371.7	464.3	567.9	701.4	810.9	952.3	1383.8	2502.1	4333.6
-10°	233.8	322.2	378.2	464.0	564.8	693.6	810.9	948.9	1337.1	2374.7	4053.9
-12.5°	226.9	319.6	379.4	460.5	559.1	680.5	805.2	938.0	1257.5	2139.5	3726.5
-15°	218.5	315.3	378.6	453.8	550.8	662.1	793.2	919.5	1133.4	1774.9	3322.2
-17.5°	208.8	309.5	375.7	443.8	540.3	638.4	768.8	871.3	1005.1	1512.3	2856.2
-20°	198.2	302.1	370.6	430.5	527.5	604.2	711.5	817.0	939.1	1286.0	2229.3



REPORT NUMBER: P731319 (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°	187.2	293.3	362.2	421.9	494.8	564.8	651.2	754.6	866.5	1004.9	1562.4
-25°	180.8	276.7	350.0	401.9	459.5	524.7	589.3	684.8	790.7	902.1	1195.6
-27.5°	177.4	260.7	330.2	382.0	425.4	484.5	539.4	615.6	713.8	809.1	902.1
-30°	171.6	238.0	309.9	361.3	400.7	447.3	494.6	556.4	643.6	727.2	804.3
-32.5°	159.2	214.9	285.0	338.3	378.8	412.8	459.6	514.7	581.8	654.5	716.5
-35°	144.0	196.7	258.1	315.3	357.3	389.4	431.6	477.9	527.1	590.1	664.4
-37.5°	129.9	177.0	231.3	289.6	332.6	371.6	404.0	445.7	488.2	534.9	609.1
-40°	114.8	155.7	207.1	260.7	310.4	351.0	384.6	415.8	452.9	499.6	549.2
-42.5°	99.0	137.8	182.3	232.3	282.3	326.0	364.2	393.0	424.7	464.8	509.0
-45°	85.9	118.9	157.0	204.3	251.4	297.4	336.3	372.7	403.1	432.6	470.8
-47.5°	72.3	100.4	135.4	175.7	220.4	263.6	305.8	345.9	384.6	412.2	435.6
-50°	59.8	85.0	113.5	150.5	189.6	230.0	269.4	316.4	357.4	392.2	419.4
-52.5°	51.9	69.0	95.3	125.7	160.8	197.2	236.1	279.3	323.7	365.2	397.0
-55°	43.5	58.3	76.8	103.1	132.9	165.9	202.3	242.0	282.4	324.0	364.7
-57.5°	35.4	48.6	62.7	81.0	106.8	135.1	168.4	203.6	240.8	278.6	316.2
-60°	27.3	38.8	51.5	64.9	80.7	106.0	133.7	164.6	197.7	231.5	265.5
-62.5°	19.5	28.9	40.1	52.2	64.7	78.5	100.8	126.5	153.2	181.3	210.9
-65°	15.1	20.0	28.3	38.9	50.3	62.4	75.7	90.2	112.4	134.2	155.0
-67.5°	10.6	15.2	19.6	25.1	34.9	45.2	56.3	68.4	81.3	94.1	109.0
-70°	9.5	10.7	14.3	18.3	22.1	27.2	36.3	46.0	55.9	65.6	76.2
-72.5°	8.9	9.8	11.1	12.7	15.9	19.0	22.1	25.1	31.0	38.9	46.7
-75°	8.2	8.9	9.7	10.9	12.2	13.5	15.1	17.7	20.2	22.6	25.0
-77.5°	7.6	8.0	8.6	9.2	9.9	10.9	12.0	13.2	14.2	15.1	16.2
-80°	7.0	7.2	7.5	7.9	8.3	8.9	9.5	10.1	10.6	11.1	11.7
-82.5°	6.5	6.6	6.7	6.9	6.9	7.1	7.3	7.6	8.0	8.3	8.6
-85°	5.9	6.0	6.1	6.2	6.0	5.9	5.8	5.8	5.9	6.1	6.2
-87.5°	5.4	5.4	5.4	5.5	5.3	5.2	5.0	4.8	4.7	4.7	4.6
-90°	4.5	4.2	3.9	3.6	3.6	3.6	3.6	3.6	3.3	3.0	2.7



REPORT NUMBER: P731319 (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°	3.6	3.6	3.6	3.6	3.6	4.2	4.8	5.4	6.0	6.6	7.2
87.5°	2.4	2.4	2.4	2.4	2.4	2.1	1.8	1.5	1.2	1.2	1.2
85°	3.2	3.0	2.8	2.6	2.4	2.4	2.3	2.3	2.3	2.1	1.8
82.5°	3.6	3.3	3.0	2.7	2.4	2.4	2.4	2.4	2.4	2.1	1.8
80°	3.6	3.3	3.0	2.7	2.4	2.4	2.4	2.4	2.4	2.1	1.8
77.5°	3.7	3.4	3.2	3.1	3.1	3.0	2.9	2.7	2.4	2.1	1.8
75°	3.7	3.6	3.7	3.7	3.6	3.4	3.1	2.8	2.5	2.4	2.3
72.5°	4.7	4.5	4.5	4.6	4.6	4.4	4.2	3.9	3.5	3.4	3.5
70°	7.0	7.2	7.2	7.1	6.7	6.2	5.7	5.2	4.7	4.6	4.6
67.5°	10.6	10.8	10.4	9.7	8.4	7.3	6.9	6.4	5.9	5.7	5.8
65°	15.3	14.1	12.9	11.6	10.0	8.3	7.8	7.4	7.0	7.0	7.4
62.5°	19.8	16.1	13.0	11.0	9.5	8.3	7.7	7.2	6.7	6.5	6.7
60°	21.7	15.4	11.2	9.9	8.7	7.4	6.7	6.1	5.6	5.3	5.5
57.5°	21.8	15.1	10.4	8.8	7.5	6.4	5.8	5.5	5.1	4.8	5.2
55°	19.4	13.4	8.8	7.6	6.8	6.3	5.9	5.8	5.7	5.6	5.8
52.5°	15.6	11.2	8.2	7.1	7.1	7.1	7.1	7.1	7.2	7.4	7.8
50°	12.4	9.6	8.7	8.2	8.5	8.5	8.3	8.8	9.4	9.8	10.1
47.5°	11.4	10.4	10.5	10.3	10.7	11.5	11.7	12.0	13.0	13.5	14.0
45°	12.6	13.6	14.1	15.1	15.7	17.1	17.5	17.5	19.5	20.9	21.6
42.5°	17.7	19.2	21.1	23.0	23.9	25.7	27.5	28.5	31.5	33.8	34.8
40°	26.7	27.6	31.5	33.9	35.7	38.0	43.5	47.1	52.9	63.7	71.5
37.5°	39.2	42.1	44.4	47.8	55.4	59.0	76.8	92.9	104.0	130.7	145.9
35°	57.4	65.3	62.5	77.9	96.8	120.7	146.6	185.3	215.9	252.1	285.5
32.5°	90.0	109.2	127.8	145.6	188.3	256.7	258.6	330.9	379.3	438.0	489.6
30°	142.4	210.4	296.1	324.4	444.5	578.7	541.5	652.4	762.4	827.7	1053.5
27.5°	280.9	434.3	604.5	820.8	1044.5	1275.2	1428.0	1481.5	2037.7	2446.7	2979.1
25°	480.6	749.8	1225.3	1575.5	1968.4	2480.8	2776.7	3175.1	4102.9	5259.1	6157.1
22.5°	765.9	1236.3	1864.5	2394.5	2983.4	3673.9	4298.4	5253.5	6696.3	8274.5	9617.0
20°	1085.7	1692.1	2488.1	3282.2	4054.1	4953.9	6040.5	7991.0	10220.3	12694.1	14930.5
17.5°	1675.5	2271.9	3291.3	4376.9	5473.6	6557.5	8946.9	11835.6	15325.3	18990.9	22246.6
15°	2518.5	3483.7	4494.8	5930.3	7755.7	9838.6	12864.7	17931.3	23351.2	29071.9	35891.9
12.5°	3618.6	5017.9	6534.6	8196.8	10671.7	14474.0	19493.8	25678.1	33435.9	42018.5	51723.1
10°	4741.2	6759.3	8848.0	11221.8	14483.8	19381.4	25864.1	33607.6	45807.9	57832.9	67961.3
7.5°	5654.0	8005.9	10641.2	13794.5	18046.0	24013.6	32024.8	43215.9	57765.4	72073.1	83403.9
5°	6510.4	9094.0	11837.4	15059.2	20184.8	27381.1	37029.0	50991.4	68397.5	83613.9	95755.5
2.5°	7131.5	9845.5	12683.7	15961.9	21805.6	29428.2	40020.5	57340.0	77374.3	92964.4	106886.0
0°	7406.5	9917.8	12632.7	15996.2	21858.8	30472.5	41057.9	60020.7	81529.6	98289.9	112274.1
-2.5°	7065.7	9503.6	12305.3	15591.2	21468.0	29742.6	40677.0	59718.9	81301.7	98299.3	112086.5
-5°	6704.9	9016.1	11617.0	14654.3	20013.2	27707.0	38863.2	57057.0	77768.0	94856.5	108305.8
-7.5°	6320.4	8435.7	10762.6	13487.7	18241.9	25645.6	36004.8	51360.4	70719.6	88118.7	100767.7
-10°	5880.8	7806.5	10253.4	13141.6	17280.4	23716.2	32283.1	44584.9	62717.4	78882.9	92770.9
-12.5°	5622.7	7676.7	10121.8	12774.8	16113.2	21784.9	29579.7	40073.2	52485.5	67501.6	79859.0
-15°	5290.9	7370.0	9795.0	12283.9	15374.2	19802.5	25956.7	33664.3	43108.8	53227.9	64196.3
-17.5°	4745.5	6823.4	8776.2	11112.2	14047.3	17546.0	21968.6	27950.2	34216.7	41386.5	47948.8
-20°	3847.3	5525.7	7372.5	9573.5	12096.7	14747.9	17701.3	21777.0	25752.1	30771.6	34801.2



REPORT NUMBER: P731319 (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°	2767.9	4186.7	5786.7	7605.7	9603.8	11873.6	14098.5	16249.3	18973.6	22150.9	25388.7
-25°	1802.7	2852.3	4237.8	5728.6	7124.1	8938.1	10536.6	11821.1	13658.1	15095.8	17057.9
-27.5°	1248.3	1930.5	2962.6	4150.4	5251.2	6412.2	7713.5	8590.5	10021.5	10799.2	12002.0
-30°	913.4	1296.3	2038.6	2927.0	3886.0	4874.3	5803.2	6767.4	7762.9	8643.2	9310.7
-32.5°	810.0	960.4	1326.5	1965.9	2716.3	3545.0	4331.6	5172.2	5965.3	6647.6	7198.3
-35°	739.8	824.1	939.1	1277.3	1725.1	2372.0	2990.9	3671.3	4308.3	4835.8	5277.9
-37.5°	684.2	751.7	824.1	898.3	1149.7	1432.9	1872.7	2345.6	2754.3	3221.4	3582.1
-40°	621.0	693.2	751.1	810.4	877.0	948.1	1186.2	1397.9	1628.8	1944.1	2201.7
-42.5°	555.9	618.7	684.0	739.1	789.4	842.5	896.0	943.4	1060.7	1199.7	1305.2
-45°	510.8	555.3	603.1	661.5	715.7	761.7	805.0	846.5	889.0	928.3	961.0
-47.5°	471.1	507.0	546.4	586.6	627.3	674.6	719.0	761.2	798.1	831.6	858.5
-50°	442.1	467.0	499.8	531.4	566.2	599.2	628.7	663.3	701.0	735.4	762.8
-52.5°	427.5	449.2	468.0	490.7	522.2	549.8	574.1	601.4	627.7	651.7	669.4
-55°	398.6	427.0	454.5	480.1	501.8	521.5	542.5	569.4	592.4	612.3	623.2
-57.5°	353.4	389.9	424.5	456.9	487.4	516.1	539.9	561.2	582.6	602.9	612.2
-60°	300.0	334.9	371.0	410.0	449.4	488.6	517.4	544.9	570.8	592.6	604.1
-62.5°	242.6	274.4	306.7	341.8	379.2	415.9	447.4	480.2	513.9	542.8	561.4
-65°	177.4	204.5	233.4	262.2	290.7	320.0	348.0	375.7	402.5	424.2	439.4
-67.5°	127.2	144.7	162.5	181.0	203.1	225.7	246.4	266.5	285.7	301.0	312.4
-70°	87.4	98.7	109.3	121.0	135.1	148.9	161.7	173.8	185.2	194.9	202.9
-72.5°	54.4	61.8	69.1	77.3	85.4	93.1	100.3	107.1	113.4	119.1	124.3
-75°	27.3	30.8	36.6	42.1	47.3	52.7	57.7	62.1	65.9	69.0	71.8
-77.5°	17.7	19.9	22.1	24.1	25.9	28.4	31.2	34.0	36.8	39.1	41.2
-80°	12.4	13.6	14.9	16.2	17.6	19.2	20.8	22.4	23.9	25.0	25.8
-82.5°	8.8	9.5	10.3	11.0	11.8	12.9	14.1	15.2	16.3	17.0	17.8
-85°	6.3	6.6	7.0	7.3	7.7	8.7	9.7	10.7	11.7	12.4	13.1
-87.5°	4.6	4.6	4.6	4.7	4.7	5.6	6.5	7.4	8.3	8.6	9.0
-90°	2.4	2.4	2.4	2.4	2.4	2.1	1.8	1.5	1.2	1.2	1.2



REPORT NUMBER: P731319 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	7.8	8.4	8.4	8.4	8.4	8.4	7.8	7.2	6.6	6.0	5.4
87.5°	1.2	1.2	0.6	0.0	0.6	1.2	1.2	1.2	1.2	1.2	1.5
85°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.3	2.3
82.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.4
80°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.4
77.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.7
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.5	2.8
72.5°	3.5	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.4	3.5	3.9
70°	4.7	4.8	4.2	3.6	4.2	4.8	4.7	4.6	4.6	4.7	5.2
67.5°	5.9	6.0	6.5	7.2	6.5	6.0	5.9	5.8	5.7	5.9	6.4
65°	7.8	8.2	7.8	7.2	7.8	8.2	7.8	7.4	7.0	7.0	7.4
62.5°	6.9	7.2	6.7	6.0	6.7	7.2	6.9	6.7	6.5	6.7	7.2
60°	5.7	6.0	6.0	6.0	6.0	6.0	5.7	5.5	5.3	5.6	6.1
57.5°	5.5	5.9	6.0	6.0	6.0	5.9	5.5	5.2	4.8	5.1	5.5
55°	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.8	5.6	5.7	5.8
52.5°	8.0	8.2	8.4	8.4	8.4	8.2	8.0	7.8	7.4	7.2	7.1
50°	10.4	10.6	10.8	10.8	10.8	10.6	10.4	10.1	9.8	9.4	8.8
47.5°	14.3	14.3	14.3	14.4	14.3	14.3	14.3	14.0	13.5	13.0	12.0
45°	21.9	21.7	21.4	21.6	21.4	21.7	21.9	21.6	20.9	19.5	17.5
42.5°	35.7	35.7	35.7	36.0	35.7	35.7	35.7	34.8	33.8	31.5	28.5
40°	73.6	71.0	67.2	67.1	67.2	71.0	73.6	71.5	63.7	52.9	47.1
37.5°	153.3	156.0	155.6	158.2	155.6	156.0	153.3	145.9	130.7	104.0	92.9
35°	311.0	324.9	328.0	327.2	328.0	324.9	311.0	285.5	252.1	215.9	185.3
32.5°	512.2	530.7	535.8	543.0	535.8	530.7	512.2	489.6	438.0	379.3	330.9
30°	900.4	925.3	901.6	853.4	901.6	925.3	900.4	1053.5	827.7	762.4	652.4
27.5°	3262.6	3382.2	3112.9	3014.6	3112.9	3382.2	3262.6	2979.1	2446.7	2037.7	1481.5
25°	6649.1	7178.3	7720.8	7672.7	7720.8	7178.3	6649.1	6157.1	5259.1	4102.9	3175.1
22.5°	10730.8	11267.1	11714.0	11868.0	11714.0	11267.1	10730.8	9617.0	8274.5	6696.3	5253.5
20°	16996.6	18041.1	18788.9	17992.0	18788.9	18041.1	16996.6	14930.5	12694.1	10220.3	7991.0
17.5°	27168.1	30313.3	31947.1	32978.9	31947.1	30313.3	27168.1	22246.6	18990.9	15325.3	11835.6
15°	42173.9	46917.0	49544.8	51284.9	49544.8	46917.0	42173.9	35891.9	29071.9	23351.2	17931.3
12.5°	59479.2	64650.6	66973.2	68868.7	66973.2	64650.6	59479.2	51723.1	42018.5	33435.9	25678.1
10°	75930.2	81517.2	85385.5	87395.8	85385.5	81517.2	75930.2	67961.3	57832.9	45807.9	33607.6
7.5°	91003.4	97837.8	101763.2	103012.6	101763.2	97837.8	91003.4	83403.9	72073.1	57765.4	43215.9
5°	105746.9	111844.8	116565.4	117635.8	116565.4	111844.8	105746.9	95755.5	83613.9	68397.5	50991.4
2.5°	117098.7	124406.9	128645.1	129926.3	128645.1	124406.9	117098.7	106886.0	92964.4	77374.3	57340.0
0°	122300.9	129104.6	134122.8	135922.6	134122.8	129104.6	122300.9	112274.1	98289.9	81529.6	60020.7
-2.5°	121212.8	127482.8	131074.8	131693.7	131074.8	127482.8	121212.8	112086.5	98299.3	81301.7	59718.9
-5°	117385.9	123146.7	126694.5	126796.0	126694.5	123146.7	117385.9	108305.8	94856.5	77768.0	57057.0
-7.5°	108979.9	114366.9	116840.2	117461.4	116840.2	114366.9	108979.9	100767.7	88118.7	70719.6	51360.4
-10°	100424.1	105421.8	107759.0	108017.7	107759.0	105421.8	100424.1	92770.9	78882.9	62717.4	44584.9
-12.5°	89341.6	94689.2	97022.8	98120.3	97022.8	94689.2	89341.6	79859.0	67501.6	52485.5	40073.2
-15°	72849.6	78020.6	80820.4	82887.7	80820.4	78020.6	72849.6	64196.3	53227.9	43108.8	33664.3
-17.5°	55178.5	59610.8	62369.8	64881.3	62369.8	59610.8	55178.5	47948.8	41386.5	34216.7	27950.2
-20°	39284.7	42107.4	42974.4	44327.8	42974.4	42107.4	39284.7	34801.2	30771.6	25752.1	21777.0



REPORT NUMBER: P731319 (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°	27591.7	29196.6	30213.2	30787.7	30213.2	29196.6	27591.7	25388.7	22150.9	18973.6	16249.3
-25°	18705.2	19818.3	20251.1	20750.1	20251.1	19818.3	18705.2	17057.9	15095.8	13658.1	11821.1
-27.5°	12529.5	12986.6	13298.8	13468.2	13298.8	12986.6	12529.5	12002.0	10799.2	10021.5	8590.5
-30°	9848.0	10266.0	10516.6	10596.2	10516.6	10266.0	9848.0	9310.7	8643.2	7762.9	6767.4
-32.5°	7624.6	7940.5	8109.4	8131.7	8109.4	7940.5	7624.6	7198.3	6647.6	5965.3	5172.2
-35°	5648.5	5936.2	6095.5	6084.4	6095.5	5936.2	5648.5	5277.9	4835.8	4308.3	3671.3
-37.5°	3892.3	4136.2	4285.9	4324.8	4285.9	4136.2	3892.3	3582.1	3221.4	2754.3	2345.6
-40°	2435.0	2614.1	2721.1	2735.4	2721.1	2614.1	2435.0	2201.7	1944.1	1628.8	1397.9
-42.5°	1397.7	1470.3	1511.1	1509.1	1511.1	1470.3	1397.7	1305.2	1199.7	1060.7	943.4
-45°	982.4	998.6	1007.8	1009.3	1007.8	998.6	982.4	961.0	928.3	889.0	846.5
-47.5°	878.0	893.4	901.6	902.6	901.6	893.4	878.0	858.5	831.6	798.1	761.2
-50°	784.8	803.1	813.0	815.1	813.0	803.1	784.8	762.8	735.4	701.0	663.3
-52.5°	683.7	695.7	699.7	697.6	699.7	695.7	683.7	669.4	651.7	627.7	601.4
-55°	633.4	643.3	647.5	648.5	647.5	643.3	633.4	623.2	612.3	592.4	569.4
-57.5°	621.3	630.1	632.8	632.9	632.8	630.1	621.3	612.2	602.9	582.6	561.2
-60°	615.5	626.5	628.6	626.9	628.6	626.5	615.5	604.1	592.6	570.8	544.9
-62.5°	577.8	591.8	596.3	595.7	596.3	591.8	577.8	561.4	542.8	513.9	480.2
-65°	452.2	462.5	467.8	469.9	467.8	462.5	452.2	439.4	424.2	402.5	375.7
-67.5°	321.6	328.8	331.1	330.8	331.1	328.8	321.6	312.4	301.0	285.7	266.5
-70°	209.7	215.3	215.8	214.6	215.8	215.3	209.7	202.9	194.9	185.2	173.8
-72.5°	128.7	132.5	132.2	130.7	132.2	132.5	128.7	124.3	119.1	113.4	107.1
-75°	74.0	75.9	75.4	74.3	75.4	75.9	74.0	71.8	69.0	65.9	62.1
-77.5°	43.2	45.1	45.4	45.5	45.4	45.1	43.2	41.2	39.1	36.8	34.0
-80°	26.7	27.5	27.6	27.6	27.6	27.5	26.7	25.8	25.0	23.9	22.4
-82.5°	18.5	19.1	19.2	19.2	19.2	19.1	18.5	17.8	17.0	16.3	15.2
-85°	13.7	14.4	14.4	14.4	14.4	14.4	13.7	13.1	12.4	11.7	10.7
-87.5°	9.3	9.6	9.6	9.6	9.6	9.6	9.3	9.0	8.6	8.3	7.4
-90°	1.2	1.2	0.6	0.0	0.6	1.2	1.2	1.2	1.2	1.2	1.5



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	4.8	4.2	3.6	3.6	3.6	3.6	3.6	3.9	4.2	4.5	4.8
87.5°	1.8	2.1	2.4	2.4	2.4	2.4	2.4	2.7	3.0	3.3	3.6
85°	2.3	2.4	2.4	2.6	2.8	3.0	3.2	3.2	3.3	3.4	3.6
82.5°	2.4	2.4	2.4	2.7	3.0	3.3	3.6	3.6	3.6	3.6	3.6
80°	2.4	2.4	2.4	2.7	3.0	3.3	3.6	3.7	3.6	3.6	3.7
77.5°	2.9	3.0	3.1	3.1	3.2	3.4	3.7	4.0	4.2	4.3	4.3
75°	3.1	3.4	3.6	3.7	3.7	3.6	3.7	4.0	4.3	4.6	4.8
72.5°	4.2	4.4	4.6	4.6	4.5	4.5	4.7	4.9	5.0	4.9	4.8
70°	5.7	6.2	6.7	7.1	7.2	7.2	7.0	6.9	6.7	6.7	6.2
67.5°	6.9	7.3	8.4	9.7	10.4	10.8	10.6	10.0	9.5	9.1	8.1
65°	7.8	8.3	10.0	11.6	12.9	14.1	15.3	15.3	14.5	12.9	10.3
62.5°	7.7	8.3	9.5	11.0	13.0	16.1	19.8	21.1	21.0	18.2	14.3
60°	6.7	7.4	8.7	9.9	11.2	15.4	21.7	26.2	28.7	24.3	18.5
57.5°	5.8	6.4	7.5	8.8	10.4	15.1	21.8	29.8	34.9	28.5	22.5
55°	5.9	6.3	6.8	7.6	8.8	13.4	19.4	26.7	32.4	30.6	24.0
52.5°	7.1	7.1	7.1	7.1	8.2	11.2	15.6	22.2	25.7	25.2	23.1
50°	8.3	8.5	8.5	8.2	8.7	9.6	12.4	17.3	19.2	20.2	19.4
47.5°	11.7	11.5	10.7	10.3	10.5	10.4	11.4	12.8	15.5	15.8	16.0
45°	17.5	17.1	15.7	15.1	14.1	13.6	12.6	14.0	14.7	15.2	13.4
42.5°	27.5	25.7	23.9	23.0	21.1	19.2	17.7	18.0	17.7	17.0	16.5
40°	43.5	38.0	35.7	33.9	31.5	27.6	26.7	24.5	23.3	21.3	21.9
37.5°	76.8	59.0	55.4	47.8	44.4	42.1	39.2	35.2	30.6	32.5	32.3
35°	146.6	120.7	96.8	77.9	62.5	65.3	57.4	49.5	46.5	49.2	46.8
32.5°	258.6	256.7	188.3	145.6	127.8	109.2	90.0	70.0	77.2	75.5	66.6
30°	541.5	578.7	444.5	324.4	296.1	210.4	142.4	130.7	124.9	110.6	92.3
27.5°	1428.0	1275.2	1044.5	820.8	604.5	434.3	280.9	207.6	186.6	160.9	131.1
25°	2776.7	2480.8	1968.4	1575.5	1225.3	749.8	480.6	339.7	265.8	223.3	183.8
22.5°	4298.4	3673.9	2983.4	2394.5	1864.5	1236.3	765.9	492.0	354.9	296.6	246.1
20°	6040.5	4953.9	4054.1	3282.2	2488.1	1692.1	1085.7	735.6	503.0	378.6	309.6
17.5°	8946.9	6557.5	5473.6	4376.9	3291.3	2271.9	1675.5	1121.2	663.1	464.1	372.7
15°	12864.7	9838.6	7755.7	5930.3	4494.8	3483.7	2518.5	1612.3	889.7	581.8	451.1
12.5°	19493.8	14474.0	10671.7	8196.8	6534.6	5017.9	3618.6	2339.8	1279.1	735.6	546.6
10°	25864.1	19381.4	14483.8	11221.8	8848.0	6759.3	4741.2	2990.4	1631.8	895.5	638.3
7.5°	32024.8	24013.6	18046.0	13794.5	10641.2	8005.9	5654.0	3589.6	1939.3	1051.7	725.6
5°	37029.0	27381.1	20184.8	15059.2	11837.4	9094.0	6510.4	4151.6	2198.0	1199.6	808.0
2.5°	40020.5	29428.2	21805.6	15961.9	12683.7	9845.5	7131.5	4498.8	2318.9	1278.7	854.1
0°	41057.9	30472.5	21858.8	15996.2	12632.7	9917.8	7406.5	4610.1	2342.2	1326.9	894.2
-2.5°	40677.0	29742.6	21468.0	15591.2	12305.3	9503.6	7065.7	4630.2	2473.2	1376.8	924.7
-5°	38863.2	27707.0	20013.2	14654.3	11617.0	9016.1	6704.9	4532.8	2532.8	1400.1	948.4
-7.5°	36004.8	25645.6	18241.9	13487.7	10762.6	8435.7	6320.4	4333.6	2502.1	1383.8	952.3
-10°	32283.1	23716.2	17280.4	13141.6	10253.4	7806.5	5880.8	4053.9	2374.7	1337.1	948.9
-12.5°	29579.7	21784.9	16113.2	12774.8	10121.8	7676.7	5622.7	3726.5	2139.5	1257.5	938.0
-15°	25956.7	19802.5	15374.2	12283.9	9795.0	7370.0	5290.9	3322.2	1774.9	1133.4	919.5
-17.5°	21968.6	17546.0	14047.3	11112.2	8776.2	6823.4	4745.5	2856.2	1512.3	1005.1	871.3
-20°	17701.3	14747.9	12096.7	9573.5	7372.5	5525.7	3847.3	2229.3	1286.0	939.1	817.0



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 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	14098.5	11873.6	9603.8	7605.7	5786.7	4186.7	2767.9	1562.4	1004.9	866.5	754.6
-25°	10536.6	8938.1	7124.1	5728.6	4237.8	2852.3	1802.7	1195.6	902.1	790.7	684.8
-27.5°	7713.5	6412.2	5251.2	4150.4	2962.6	1930.5	1248.3	902.1	809.1	713.8	615.6
-30°	5803.2	4874.3	3886.0	2927.0	2038.6	1296.3	913.4	804.3	727.2	643.6	556.4
-32.5°	4331.6	3545.0	2716.3	1965.9	1326.5	960.4	810.0	716.5	654.5	581.8	514.7
-35°	2990.9	2372.0	1725.1	1277.3	939.1	824.1	739.8	664.4	590.1	527.1	477.9
-37.5°	1872.7	1432.9	1149.7	898.3	824.1	751.7	684.2	609.1	534.9	488.2	445.7
-40°	1186.2	948.1	877.0	810.4	751.1	693.2	621.0	549.2	499.6	452.9	415.8
-42.5°	896.0	842.5	789.4	739.1	684.0	618.7	555.9	509.0	464.8	424.7	393.0
-45°	805.0	761.7	715.7	661.5	603.1	555.3	510.8	470.8	432.6	403.1	372.7
-47.5°	719.0	674.6	627.3	586.6	546.4	507.0	471.1	435.6	412.2	384.6	345.9
-50°	628.7	599.2	566.2	531.4	499.8	467.0	442.1	419.4	392.2	357.4	316.4
-52.5°	574.1	549.8	522.2	490.7	468.0	449.2	427.5	397.0	365.2	323.7	279.3
-55°	542.5	521.5	501.8	480.1	454.5	427.0	398.6	364.7	324.0	282.4	242.0
-57.5°	539.9	516.1	487.4	456.9	424.5	389.9	353.4	316.2	278.6	240.8	203.6
-60°	517.4	488.6	449.4	410.0	371.0	334.9	300.0	265.5	231.5	197.7	164.6
-62.5°	447.4	415.9	379.2	341.8	306.7	274.4	242.6	210.9	181.3	153.2	126.5
-65°	348.0	320.0	290.7	262.2	233.4	204.5	177.4	155.0	134.2	112.4	90.2
-67.5°	246.4	225.7	203.1	181.0	162.5	144.7	127.2	109.0	94.1	81.3	68.4
-70°	161.7	148.9	135.1	121.0	109.3	98.7	87.4	76.2	65.6	55.9	46.0
-72.5°	100.3	93.1	85.4	77.3	69.1	61.8	54.4	46.7	38.9	31.0	25.1
-75°	57.7	52.7	47.3	42.1	36.6	30.8	27.3	25.0	22.6	20.2	17.7
-77.5°	31.2	28.4	25.9	24.1	22.1	19.9	17.7	16.2	15.1	14.2	13.2
-80°	20.8	19.2	17.6	16.2	14.9	13.6	12.4	11.7	11.1	10.6	10.1
-82.5°	14.1	12.9	11.8	11.0	10.3	9.5	8.8	8.6	8.3	8.0	7.6
-85°	9.7	8.7	7.7	7.3	7.0	6.6	6.3	6.2	6.1	5.9	5.8
-87.5°	6.5	5.6	4.7	4.7	4.6	4.6	4.6	4.6	4.7	4.7	4.8
-90°	1.8	2.1	2.4	2.4	2.4	2.4	2.4	2.7	3.0	3.3	3.6



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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	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	3.6	3.6	3.6	3.6	3.9	4.2	4.5	4.8	4.8	4.8	4.8
85°	3.7	3.8	3.8	3.8	4.0	4.2	4.5	4.8	4.8	4.8	4.8
82.5°	3.9	4.2	4.4	4.5	4.5	4.5	4.6	4.8	4.8	4.8	4.8
80°	4.0	4.3	4.6	4.8	4.8	4.8	4.8	4.8	5.0	5.0	5.0
77.5°	4.3	4.4	4.6	4.8	4.8	4.8	4.8	4.9	5.1	5.3	5.3
75°	4.8	4.7	4.7	4.8	4.9	4.8	4.8	4.9	5.2	5.5	5.6
72.5°	4.8	4.8	4.8	4.9	5.1	5.1	5.0	4.9	5.2	5.5	5.8
70°	5.6	5.0	4.8	5.0	5.3	5.5	5.5	5.3	5.3	5.5	5.8
67.5°	7.2	6.5	5.7	5.2	5.3	5.6	5.9	5.7	5.5	5.6	5.9
65°	9.1	8.0	7.1	6.2	5.7	5.7	6.0	6.0	5.8	5.7	5.9
62.5°	11.4	9.6	8.4	7.2	6.3	5.9	6.0	6.0	6.0	5.9	5.9
60°	14.0	11.2	9.6	8.3	7.0	6.1	6.0	6.0	6.0	6.0	6.0
57.5°	16.8	12.5	10.7	9.4	8.1	6.7	6.0	6.0	6.0	6.0	6.0
55°	18.6	14.2	11.8	10.2	9.0	7.6	6.3	6.0	6.0	6.0	6.0
52.5°	18.4	15.2	13.0	11.0	9.5	8.5	7.1	6.0	6.0	6.0	6.0
50°	16.6	15.6	13.8	11.7	10.0	8.9	7.8	6.5	6.0	6.0	6.0
47.5°	15.9	15.9	14.3	12.2	10.3	9.2	8.2	7.1	6.0	6.0	6.0
45°	15.6	16.4	15.0	12.7	10.6	9.6	8.6	7.5	6.4	6.0	6.0
42.5°	15.9	17.2	16.3	13.3	11.7	9.9	8.9	7.8	6.7	6.1	6.0
40°	20.4	18.5	18.0	16.3	13.2	10.3	9.2	8.1	7.0	6.3	6.1
37.5°	26.3	22.6	20.0	21.8	15.9	11.9	9.4	8.3	7.4	6.7	6.3
35°	38.9	29.1	27.5	29.0	22.6	13.8	9.7	8.5	7.8	7.0	6.4
32.5°	54.8	43.6	41.6	37.8	31.1	15.9	10.8	9.1	8.1	7.3	6.6
30°	78.0	70.2	59.5	48.3	40.8	23.6	13.0	9.9	8.5	7.6	6.8
27.5°	113.3	99.8	81.5	64.5	50.9	32.9	15.9	10.8	8.8	7.9	7.0
25°	154.0	133.3	109.5	84.3	62.2	45.7	19.0	12.0	9.4	8.2	7.3
22.5°	203.8	169.2	139.5	106.2	79.2	60.3	25.8	14.5	10.3	8.5	7.5
20°	255.6	206.9	171.7	130.6	99.7	74.6	37.0	17.0	11.2	8.7	7.7
17.5°	309.6	255.0	210.4	159.5	120.7	90.1	48.8	19.6	12.2	9.0	7.9
15°	382.3	316.4	252.8	190.1	140.8	106.3	61.2	22.2	13.2	9.2	8.2
12.5°	459.1	380.6	297.7	221.7	159.8	122.9	73.7	24.7	14.2	9.9	8.4
10°	535.2	446.1	344.0	253.6	177.8	139.7	86.0	28.1	16.5	10.9	8.7
7.5°	609.9	511.7	390.6	285.0	197.0	161.5	106.2	33.8	19.1	12.1	8.9
5°	677.5	570.1	436.6	323.5	227.7	188.3	127.5	39.5	21.6	13.3	9.2
2.5°	720.4	615.5	479.7	360.5	257.6	214.1	148.0	45.1	24.1	14.5	9.4
0°	758.8	655.7	519.0	394.4	286.5	238.5	166.6	50.3	26.4	15.6	9.6
-2.5°	783.1	679.3	540.5	421.3	316.4	265.3	189.2	65.1	34.9	20.1	11.5
-5°	803.4	697.8	558.5	445.4	344.8	290.0	208.6	79.1	43.1	24.4	13.2
-7.5°	810.9	701.4	567.9	464.3	371.7	312.7	224.3	91.8	50.6	28.4	14.9
-10°	810.9	693.6	564.8	464.0	378.2	322.2	233.8	103.0	57.3	31.9	16.4
-12.5°	805.2	680.5	559.1	460.5	379.4	319.6	226.9	110.3	63.0	34.8	17.6
-15°	793.2	662.1	550.8	453.8	378.6	315.3	218.5	115.2	67.4	37.2	18.6
-17.5°	768.8	638.4	540.3	443.8	375.7	309.5	208.8	118.4	70.7	39.2	19.6
-20°	711.5	604.2	527.5	430.5	370.6	302.1	198.2	119.9	72.7	40.3	20.6



REPORT NUMBER: P731319 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	651.2	564.8	494.8	421.9	362.2	293.3	187.2	119.6	73.3	40.6	21.2
-25°	589.3	524.7	459.5	401.9	350.0	276.7	180.8	117.4	72.6	39.9	21.4
-27.5°	539.4	484.5	425.4	382.0	330.2	260.7	177.4	116.2	70.9	38.2	21.2
-30°	494.6	447.3	400.7	361.3	309.9	238.0	171.6	113.2	68.8	37.0	20.6
-32.5°	459.6	412.8	378.8	338.3	285.0	214.9	159.2	108.1	65.3	36.3	20.1
-35°	431.6	389.4	357.3	315.3	258.1	196.7	144.0	101.0	60.4	34.8	19.4
-37.5°	404.0	371.6	332.6	289.6	231.3	177.0	129.9	89.9	54.0	32.8	18.3
-40°	384.6	351.0	310.4	260.7	207.1	155.7	114.8	79.2	49.7	30.1	16.7
-42.5°	364.2	326.0	282.3	232.3	182.3	137.8	99.0	67.8	45.0	27.6	14.7
-45°	336.3	297.4	251.4	204.3	157.0	118.9	85.9	56.8	39.8	24.8	13.0
-47.5°	305.8	263.6	220.4	175.7	135.4	100.4	72.3	50.5	34.2	21.4	12.1
-50°	269.4	230.0	189.6	150.5	113.5	85.0	59.8	43.8	29.4	17.2	11.0
-52.5°	236.1	197.2	160.8	125.7	95.3	69.0	51.9	36.8	24.3	14.7	9.6
-55°	202.3	165.9	132.9	103.1	76.8	58.3	43.5	30.4	18.7	12.7	8.2
-57.5°	168.4	135.1	106.8	81.0	62.7	48.6	35.4	23.7	15.4	10.5	8.0
-60°	133.7	106.0	80.7	64.9	51.5	38.8	27.3	17.8	12.6	8.6	7.8
-62.5°	100.8	78.5	64.7	52.2	40.1	28.9	19.5	14.3	9.7	8.3	7.5
-65°	75.7	62.4	50.3	38.9	28.3	20.0	15.1	10.5	8.7	8.0	7.3
-67.5°	56.3	45.2	34.9	25.1	19.6	15.2	10.6	9.1	8.4	7.6	7.3
-70°	36.3	27.2	22.1	18.3	14.3	10.7	9.5	8.6	8.0	7.5	7.3
-72.5°	22.1	19.0	15.9	12.7	11.1	9.8	8.9	8.2	7.7	7.4	7.2
-75°	15.1	13.5	12.2	10.9	9.7	8.9	8.2	7.8	7.4	7.2	6.9
-77.5°	12.0	10.9	9.9	9.2	8.6	8.0	7.6	7.3	7.1	6.8	6.6
-80°	9.5	8.9	8.3	7.9	7.5	7.2	7.0	6.8	6.6	6.4	6.2
-82.5°	7.3	7.1	6.9	6.9	6.7	6.6	6.5	6.3	6.2	6.0	5.9
-85°	5.8	5.9	6.0	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
-87.5°	5.0	5.2	5.3	5.5	5.4	5.4	5.4	5.3	5.3	5.2	5.2
-90°	3.6	3.6	3.6	3.6	3.9	4.2	4.5	4.8	4.8	4.8	4.8



REPORT NUMBER: P731319 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	5.1	4.9	4.8	4.8	4.8	4.8	4.8
75°	5.4	5.1	4.8	4.8	4.8	4.8	4.8
72.5°	5.7	5.4	5.0	4.8	4.8	4.8	4.8
70°	6.0	5.6	5.2	4.8	4.8	4.8	4.8
67.5°	6.0	5.9	5.4	5.0	4.8	4.8	4.8
65°	6.0	6.0	5.6	5.1	4.8	4.8	4.8
62.5°	6.0	6.0	5.8	5.3	4.8	4.8	4.8
60°	6.0	6.0	6.0	5.4	4.8	4.8	4.8
57.5°	6.0	6.0	6.0	5.5	4.9	4.8	4.8
55°	6.0	6.0	6.0	5.7	5.0	4.8	4.8
52.5°	6.0	6.0	6.0	5.8	5.1	4.8	4.8
50°	6.0	6.0	6.0	5.9	5.1	4.8	4.8
47.5°	6.0	6.0	6.0	6.0	5.2	4.8	4.8
45°	6.0	6.0	6.0	6.0	5.3	4.8	4.8
42.5°	6.0	6.0	6.0	6.0	5.4	4.8	4.8
40°	6.0	6.0	6.0	6.0	5.4	4.8	4.8
37.5°	6.0	6.0	6.0	6.0	5.5	4.8	4.8
35°	6.0	6.0	6.0	6.0	5.6	4.8	4.8
32.5°	6.0	6.0	6.0	6.0	5.6	4.8	4.8
30°	6.2	6.0	6.0	6.0	5.7	4.8	4.8
27.5°	6.3	6.0	6.0	6.0	5.7	4.8	4.8
25°	6.4	6.0	6.0	6.0	5.8	4.8	4.8
22.5°	6.6	6.0	6.0	6.0	5.8	4.8	4.8
20°	6.7	6.1	6.0	6.0	5.9	4.8	4.8
17.5°	6.9	6.2	6.0	6.0	5.9	4.8	4.8
15°	7.0	6.3	6.0	6.0	5.9	4.8	4.8
12.5°	7.1	6.5	6.0	6.0	5.9	4.8	4.8
10°	7.1	6.6	6.0	6.0	6.0	4.8	4.8
7.5°	7.2	6.8	6.0	6.0	6.0	4.8	4.8
5°	7.2	6.9	6.0	6.0	6.0	4.8	4.8
2.5°	7.2	7.1	6.0	6.0	6.0	4.8	4.8
0°	7.2	7.2	6.0	6.0	6.0	4.8	4.8
-2.5°	7.8	7.2	6.0	6.0	6.0	4.8	4.8
-5°	8.5	7.2	6.0	6.0	6.0	4.8	4.8
-7.5°	9.0	7.1	6.0	6.0	6.0	4.8	4.8
-10°	9.5	7.1	6.0	6.0	6.0	4.8	4.8
-12.5°	9.9	7.1	6.0	6.0	5.9	4.8	4.8
-15°	10.2	7.0	6.0	6.0	5.9	4.8	4.8
-17.5°	10.4	6.9	6.0	6.0	5.9	4.8	4.8
-20°	10.6	6.8	6.0	6.0	5.9	4.8	4.8



REPORT NUMBER: P731319 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-70-4S-CV2

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	11.0	6.7	6.0	6.0	5.8	4.8	4.8
-25°	11.2	6.8	6.0	6.0	5.8	4.8	4.8
-27.5°	11.2	6.9	6.0	6.0	5.7	4.8	4.8
-30°	10.9	7.0	6.0	6.0	5.7	4.8	4.8
-32.5°	10.3	6.9	6.1	6.0	5.6	4.8	4.8
-35°	10.0	6.8	6.1	6.0	5.6	4.8	4.8
-37.5°	9.8	6.6	6.2	6.0	5.5	4.8	4.8
-40°	9.5	6.7	6.2	6.0	5.4	4.8	4.8
-42.5°	9.0	6.7	6.2	6.0	5.4	4.8	4.8
-45°	8.4	6.7	6.3	6.0	5.3	4.8	4.8
-47.5°	7.6	6.7	6.3	6.1	5.2	4.8	4.8
-50°	7.4	6.7	6.3	6.0	5.1	4.8	4.8
-52.5°	7.4	6.6	6.4	5.9	5.1	4.8	4.8
-55°	7.3	6.6	6.4	5.8	5.0	4.8	4.8
-57.5°	7.1	6.7	6.4	5.7	4.9	4.8	4.8
-60°	7.0	6.7	6.4	5.6	4.8	4.8	4.8
-62.5°	7.0	6.7	6.3	5.5	4.8	4.8	4.8
-65°	7.0	6.8	6.1	5.3	4.8	4.8	4.8
-67.5°	7.1	6.7	5.9	5.2	4.8	4.8	4.8
-70°	7.1	6.4	5.8	5.1	4.8	4.8	4.8
-72.5°	6.9	6.2	5.6	5.0	4.8	4.8	4.8
-75°	6.6	6.0	5.4	5.0	4.8	4.8	4.8
-77.5°	6.3	5.8	5.3	5.0	4.8	4.8	4.8
-80°	6.0	5.6	5.2	4.9	4.8	4.8	4.8
-82.5°	5.7	5.4	5.1	4.9	4.8	4.8	4.8
-85°	5.4	5.2	5.0	4.9	4.8	4.8	4.8
-87.5°	5.1	5.0	4.9	4.8	4.8	4.8	4.8
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8

(END OF REPORT)

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

Scaled Data Report



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

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

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

Scaled Data Report

