

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: P701328 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701328 (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: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-70-4S-CV2-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

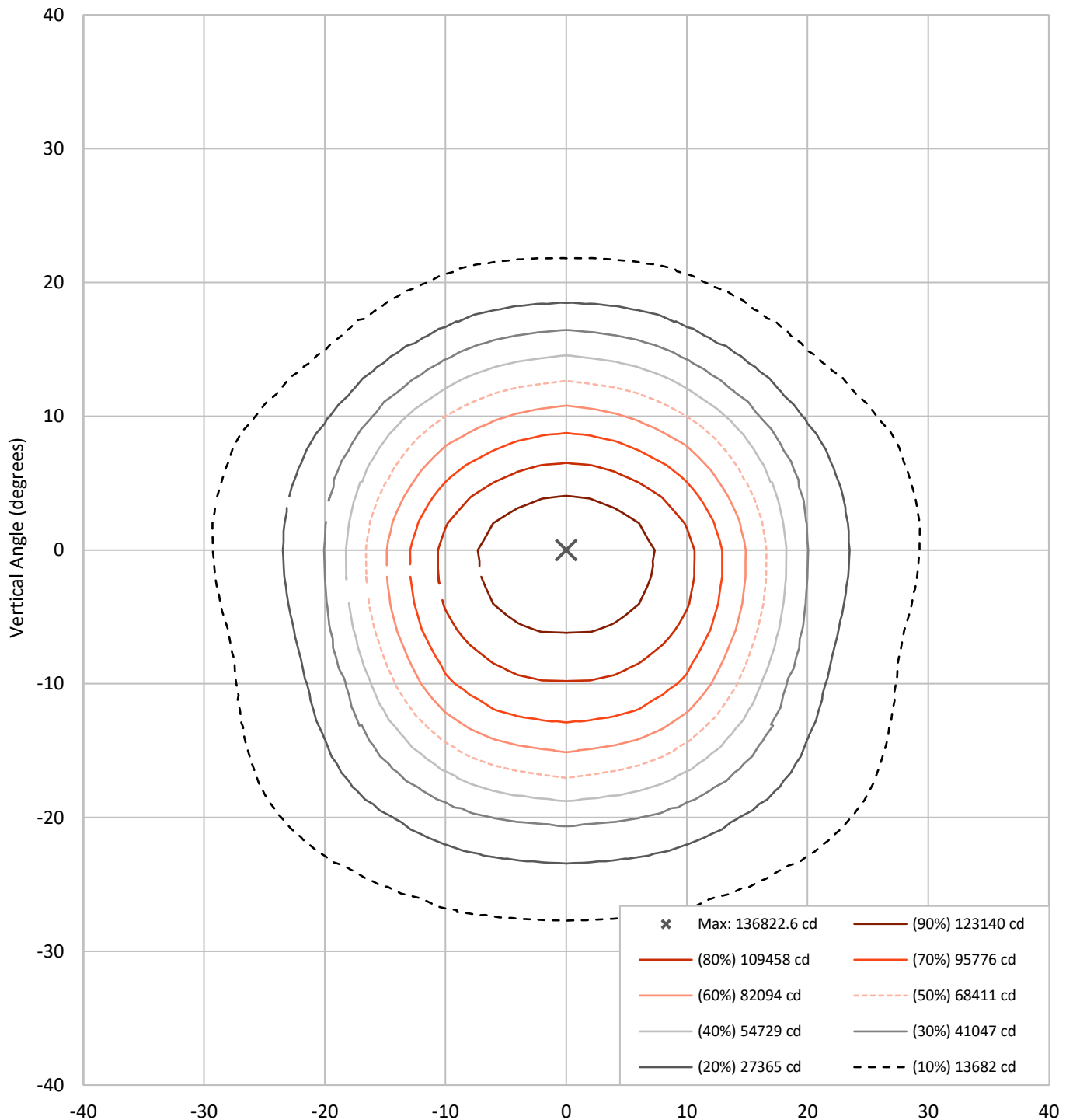
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	43789.4 lumens	Max Intensity:	136822.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	127.2 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:	24028.7 lumens	Field Lumens:	38499.1 lumens
Beam Efficiency:	54.9%	Field Efficiency:	87.9%

Input Watts (W): 344.2
Input Voltage (V): NR
Input Current (A_{in}): 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





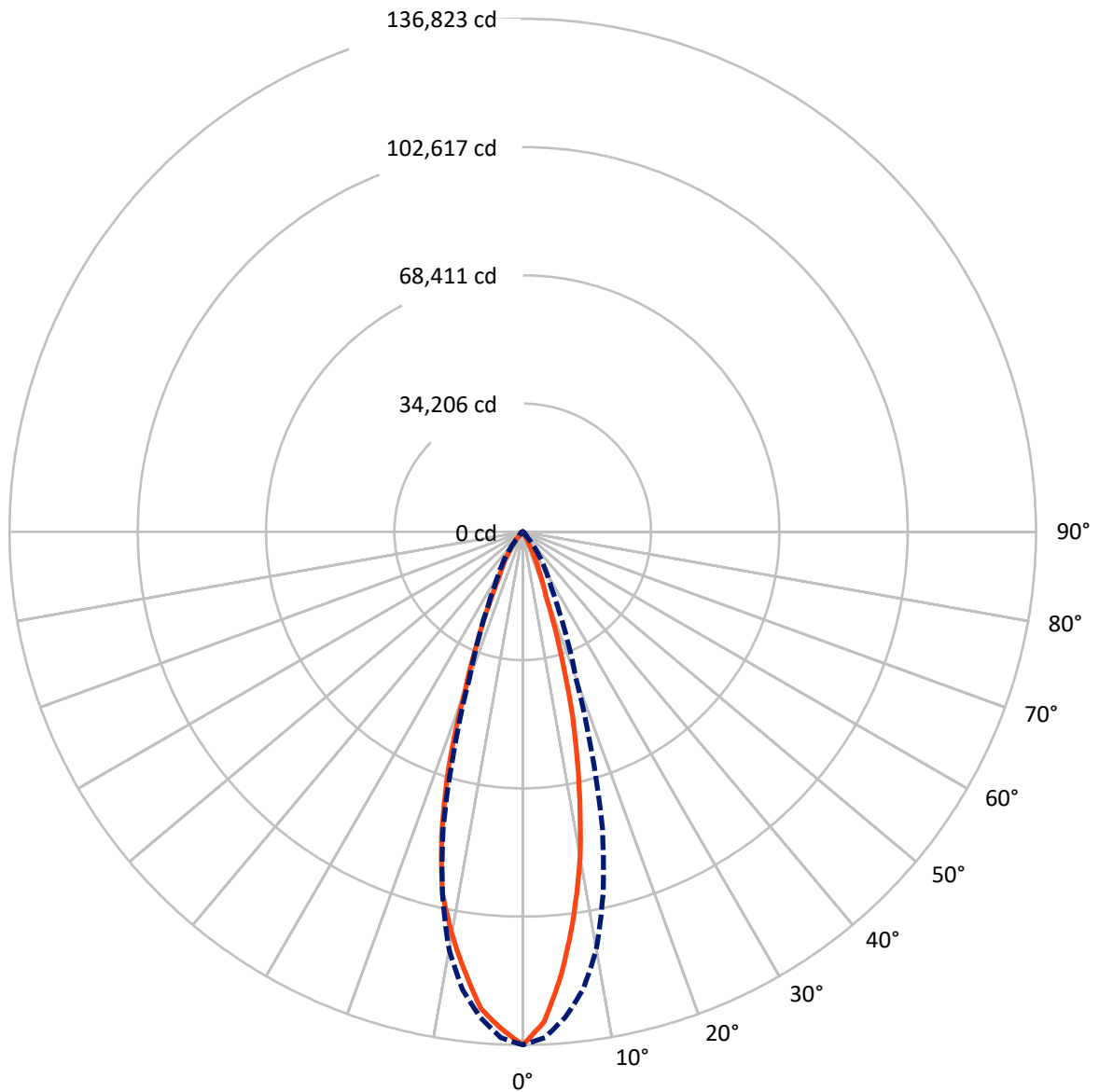
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Lumen Table

90	0.1		0.3		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	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	0.9	0.9	0.7	0.5	0.4	0.4	0.2	0.1	0.1	0.1	0.1
40		0.1	0.5	1.1	1.8	4.1	8.3	11.4	11.4	8.3	4.1	1.8	1.1	0.5	0.1			
30	0.1	0.2	1.6	4.3	16.1	58.4	138.3	233.9	233.9	138.3	58.4	16.1	4.3	1.6	0.2	0.1	0.1	0.1
20		0.5	3.6	11.5	70.9	245.5	753.2	1423.1	1423.1	753.2	245.5	70.9	11.5	3.6	0.5			
10	0.2	1.0	6.1	21.8	165.1	588.1	1950.8	3296.2	3296.2	1950.8	588.1	165.1	21.8	6.1	1.0	0.2	0.2	0.2
0		1.7	8.1	25.8	172.1	606.5	2189.6	3618.9	3618.9	2189.6	606.5	172.1	25.8	8.1	1.7			
-10	0.3	2.0	8.3	22.2	134.3	447.1	1307.7	2284.5	2284.5	1307.7	447.1	134.3	22.2	8.3	2.0	0.3	0.3	0.3
-20		1.8	7.1	15.3	58.0	212.2	441.6	661.0	661.0	441.6	212.2	58.0	15.3	7.1	1.8			
-30	0.2	1.4	5.4	10.6	19.9	57.3	130.1	183.8	183.8	130.1	57.3	19.9	10.6	5.4	1.4	0.2	0.2	0.2
-40		0.9	3.7	8.0	13.1	19.9	29.2	38.2	38.2	29.2	19.9	13.1	8.0	3.7	0.9			
-50	0.2	0.4	1.9	5.3	9.7	14.0	18.0	20.3	20.3	18.0	14.0	9.7	5.3	1.9	0.4	0.2	0.2	0.2
-60		0.2	0.7	2.2	4.7	8.1	11.6	13.6	13.6	11.6	8.1	4.7	2.2	0.7	0.2			
-70	0.1	0.5	1.7	4.6	6.5	4.6	1.7	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
-80		0.1	0.5	1.7	4.6	6.5	4.6	1.7	0.5									
-90	0.1		0.5		1.7		4.6		6.5		4.6		1.7		0.5		0.1	

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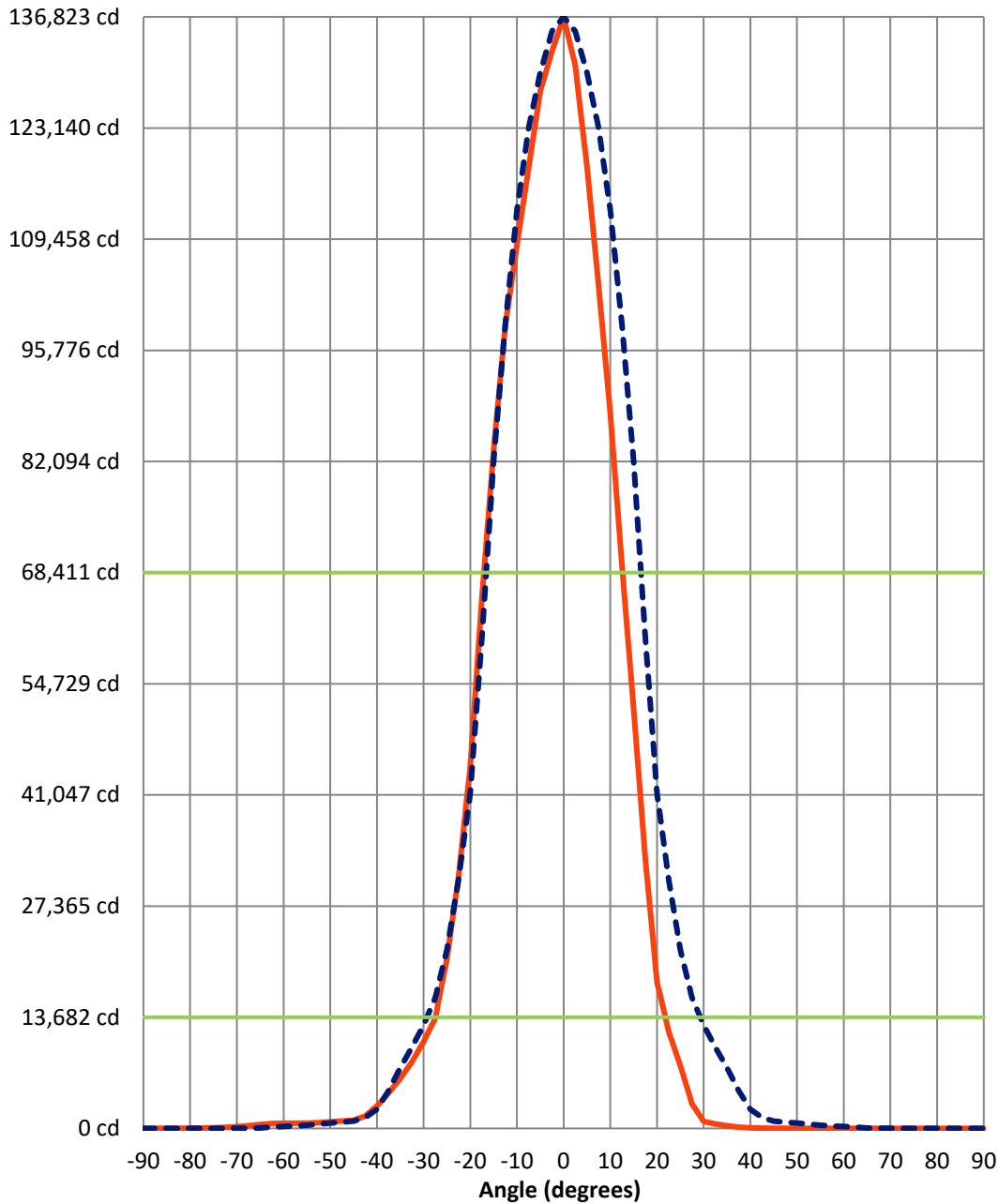
Luminous Intensity Polar Plot



— 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: 24028.7
 Efficiency: 54.9%

Field:
 H Angle: 58.6°
 V Angle: 49.3°
 Lumens: 38499.1
 Efficiency: 87.9%

Spill:
 Lumens: 5290.3
 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	8.9	10.9
25°	4.8	4.8	5.8	6.0	6.0	6.0	6.4	7.3	8.2	9.5	12.1
22.5°	4.8	4.8	5.8	6.0	6.0	6.0	6.6	7.5	8.5	10.3	14.6
20°	4.8	4.8	5.9	6.0	6.0	6.1	6.7	7.7	8.8	11.3	17.2
17.5°	4.8	4.8	5.9	6.0	6.0	6.2	6.9	7.9	9.0	12.2	19.7
15°	4.8	4.8	5.9	6.0	6.0	6.3	7.0	8.2	9.3	13.3	22.3
12.5°	4.8	4.8	5.9	6.0	6.0	6.5	7.1	8.4	9.9	14.3	24.8
10°	4.8	4.8	6.0	6.0	6.0	6.6	7.1	8.7	11.0	16.6	28.3
7.5°	4.8	4.8	6.0	6.0	6.0	6.8	7.2	9.0	12.2	19.2	34.1
5°	4.8	4.8	6.0	6.0	6.0	6.9	7.2	9.2	13.4	21.7	39.8
2.5°	4.8	4.8	6.0	6.0	6.0	7.1	7.2	9.5	14.6	24.2	45.4
0°	4.8	4.8	6.0	6.0	6.0	7.2	7.2	9.7	15.7	26.5	50.7
-2.5°	4.8	4.8	6.0	6.0	6.0	7.2	7.9	11.6	20.2	35.1	65.6
-5°	4.8	4.8	6.0	6.0	6.0	7.2	8.5	13.3	24.5	43.3	79.6
-7.5°	4.8	4.8	6.0	6.0	6.0	7.1	9.1	15.0	28.5	51.0	92.4
-10°	4.8	4.8	6.0	6.0	6.0	7.1	9.6	16.5	32.0	57.7	103.6
-12.5°	4.8	4.8	5.9	6.0	6.0	7.1	10.0	17.7	34.9	63.5	111.0
-15°	4.8	4.8	5.9	6.0	6.0	7.0	10.3	18.7	37.4	67.9	115.9
-17.5°	4.8	4.8	5.9	6.0	6.0	6.9	10.4	19.7	39.4	71.1	119.2
-20°	4.8	4.8	5.9	6.0	6.0	6.8	10.7	20.7	40.6	73.1	120.7



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

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	11.1	21.3	40.8	73.8	120.4
-25°	4.8	4.8	5.8	6.0	6.0	6.8	11.3	21.6	40.1	73.0	118.2
-27.5°	4.8	4.8	5.7	6.0	6.0	6.9	11.2	21.4	38.4	71.3	117.0
-30°	4.8	4.8	5.7	6.0	6.0	7.0	10.9	20.8	37.3	69.2	113.9
-32.5°	4.8	4.8	5.6	6.0	6.1	6.9	10.3	20.3	36.5	65.8	108.8
-35°	4.8	4.8	5.6	6.0	6.1	6.8	10.0	19.5	35.1	60.8	101.6
-37.5°	4.8	4.8	5.5	6.0	6.2	6.6	9.8	18.4	33.0	54.3	90.5
-40°	4.8	4.8	5.4	6.0	6.2	6.7	9.5	16.8	30.3	50.1	79.7
-42.5°	4.8	4.8	5.4	6.0	6.2	6.7	9.0	14.8	27.7	45.3	68.3
-45°	4.8	4.8	5.3	6.0	6.3	6.7	8.4	13.1	24.9	40.0	57.2
-47.5°	4.8	4.8	5.2	6.1	6.3	6.7	7.6	12.2	21.5	34.4	50.8
-50°	4.8	4.8	5.1	6.0	6.3	6.7	7.4	11.0	17.4	29.6	44.0
-52.5°	4.8	4.8	5.1	5.9	6.4	6.6	7.4	9.6	14.7	24.4	37.0
-55°	4.8	4.8	5.0	5.8	6.4	6.6	7.3	8.2	12.7	18.8	30.6
-57.5°	4.8	4.8	4.9	5.7	6.4	6.7	7.1	8.0	10.6	15.5	23.8
-60°	4.8	4.8	4.8	5.6	6.4	6.7	7.0	7.8	8.6	12.7	17.9
-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	8.8	10.6
-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	8.7
-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	8.2	9.2	9.5	10.0
65°	6.0	5.7	5.7	6.2	7.1	8.0	9.1	10.4	13.0	14.6	15.3
62.5°	6.0	5.9	6.3	7.2	8.4	9.6	11.5	14.4	18.3	21.1	21.2
60°	6.0	6.1	7.0	8.4	9.7	11.3	14.1	18.6	24.5	28.9	26.4
57.5°	6.0	6.7	8.1	9.5	10.8	12.6	16.9	22.7	28.7	35.1	30.0
55°	6.3	7.6	9.0	10.3	11.9	14.3	18.7	24.1	30.8	32.6	26.8
52.5°	7.1	8.5	9.6	11.1	13.1	15.3	18.5	23.2	25.3	25.9	22.3
50°	7.8	8.9	10.1	11.8	13.9	15.7	16.7	19.5	20.3	19.3	17.4
47.5°	8.3	9.3	10.4	12.3	14.4	16.0	16.0	16.1	15.9	15.6	12.9
45°	8.6	9.7	10.7	12.8	15.1	16.5	15.7	13.5	15.3	14.8	14.1
42.5°	8.9	10.0	11.8	13.4	16.4	17.3	16.0	16.6	17.1	17.8	18.1
40°	9.2	10.4	13.3	16.5	18.1	18.6	20.5	22.1	21.4	23.4	24.6
37.5°	9.5	12.0	16.0	22.0	20.1	22.7	26.5	32.5	32.7	30.8	35.4
35°	9.8	13.9	22.8	29.2	27.6	29.3	39.2	47.1	49.5	46.9	49.8
32.5°	10.9	16.0	31.3	38.0	41.9	43.9	55.1	67.0	76.0	77.8	70.4
30°	13.1	23.7	41.1	48.6	59.8	70.7	78.5	92.9	111.4	125.7	131.6
27.5°	16.0	33.2	51.2	64.9	82.0	100.5	114.0	132.0	162.1	187.8	209.0
25°	19.1	46.1	62.6	84.9	110.2	134.2	155.1	185.1	224.8	267.5	341.9
22.5°	26.0	60.7	79.8	106.9	140.4	170.4	205.1	247.7	298.6	357.3	495.3
20°	37.2	75.2	100.4	131.5	172.8	208.4	257.3	311.7	381.1	506.3	740.5
17.5°	49.2	90.7	121.5	160.5	211.8	256.8	311.6	375.2	467.2	667.5	1128.7
15°	61.6	107.0	141.7	191.3	254.5	318.6	384.8	454.0	585.6	895.6	1623.1
12.5°	74.1	123.8	160.9	223.1	299.7	383.1	462.1	550.2	740.5	1287.6	2355.4
10°	86.5	140.7	179.0	255.3	346.3	449.0	538.7	642.5	901.4	1642.7	3010.2
7.5°	106.9	162.6	198.3	286.9	393.2	515.0	614.0	730.4	1058.7	1952.2	3613.4
5°	128.4	189.6	229.2	325.6	439.5	573.8	681.9	813.3	1207.5	2212.5	4179.1
2.5°	148.9	215.6	259.3	362.9	482.9	619.5	725.1	859.7	1287.1	2334.2	4528.6
0°	167.7	240.1	288.4	397.0	522.5	660.0	763.8	900.1	1335.7	2357.7	4640.6
-2.5°	190.5	267.0	318.4	424.1	544.1	683.8	788.3	930.8	1385.9	2489.6	4660.9
-5°	210.0	291.9	347.1	448.3	562.2	702.4	808.8	954.7	1409.4	2549.6	4562.9
-7.5°	225.8	314.7	374.1	467.4	571.6	706.1	816.2	958.7	1393.0	2518.7	4362.3
-10°	235.3	324.3	380.7	467.1	568.5	698.3	816.3	955.2	1346.0	2390.5	4080.8
-12.5°	228.4	321.7	381.9	463.5	562.7	685.0	810.5	944.3	1265.8	2153.8	3751.2
-15°	219.9	317.4	381.1	456.8	554.4	666.5	798.5	925.6	1141.0	1786.7	3344.3
-17.5°	210.1	311.5	378.2	446.7	543.8	642.6	773.9	877.0	1011.7	1522.3	2875.1
-20°	199.5	304.1	373.1	433.4	530.9	608.2	716.2	822.4	945.3	1294.5	2244.0



REPORT NUMBER: P701328 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	188.4	295.2	364.6	424.7	498.1	568.5	655.5	759.6	872.2	1011.5	1572.8
-25°	181.9	278.5	352.4	404.6	462.5	528.1	593.2	689.2	795.9	908.1	1203.5
-27.5°	178.5	262.4	332.4	384.5	428.2	487.7	543.0	619.7	718.5	814.4	908.1
-30°	172.7	239.6	312.0	363.7	403.4	450.2	497.9	560.0	647.8	732.0	809.6
-32.5°	160.3	216.4	286.9	340.5	381.4	415.5	462.6	518.1	585.6	658.8	721.3
-35°	145.0	198.1	259.8	317.4	359.7	392.0	434.4	481.1	530.6	594.0	668.8
-37.5°	130.8	178.2	232.9	291.5	334.8	374.1	406.7	448.7	491.5	538.4	613.2
-40°	115.5	156.7	208.5	262.4	312.5	353.3	387.1	418.6	456.0	502.9	552.8
-42.5°	99.7	138.7	183.6	234.0	284.2	328.2	366.5	395.6	427.5	467.9	512.4
-45°	86.5	119.7	158.0	205.7	253.1	299.4	338.5	375.1	405.8	435.5	473.9
-47.5°	72.8	101.0	136.3	176.9	221.9	265.4	307.8	348.1	387.1	414.9	438.5
-50°	60.3	85.5	114.3	151.5	190.8	231.5	271.3	318.5	359.7	394.9	422.2
-52.5°	52.2	69.6	95.9	126.5	161.9	198.5	237.7	281.2	325.9	367.6	399.6
-55°	43.8	58.7	77.3	103.8	133.8	166.9	203.7	243.6	284.2	326.1	367.1
-57.5°	35.6	48.8	63.1	81.5	107.5	135.9	169.5	205.0	242.4	280.4	318.2
-60°	27.4	39.0	51.8	65.3	81.2	106.7	134.6	165.7	199.0	233.2	267.3
-62.5°	19.6	29.1	40.3	52.5	65.1	79.0	101.5	127.4	154.3	182.6	212.4
-65°	15.2	20.1	28.5	39.2	50.7	62.8	76.2	90.8	113.1	135.1	156.1
-67.5°	10.7	15.3	19.7	25.2	35.1	45.5	56.7	68.8	81.8	94.7	109.7
-70°	9.5	10.8	14.4	18.4	22.2	27.3	36.5	46.2	56.3	66.1	76.7
-72.5°	8.9	9.9	11.2	12.8	16.0	19.1	22.2	25.2	31.1	39.2	47.0
-75°	8.3	8.9	9.8	11.0	12.3	13.6	15.2	17.8	20.3	22.7	25.1
-77.5°	7.6	8.1	8.6	9.3	10.0	11.0	12.1	13.3	14.3	15.2	16.3
-80°	7.0	7.2	7.5	7.9	8.4	8.9	9.5	10.2	10.7	11.2	11.8
-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: P701328 (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°	10.7	10.8	10.5	9.7	8.5	7.3	6.9	6.4	5.9	5.7	5.8
65°	15.4	14.2	13.0	11.6	10.0	8.3	7.8	7.4	7.0	7.0	7.4
62.5°	19.9	16.2	13.0	11.0	9.5	8.3	7.7	7.2	6.7	6.5	6.7
60°	21.9	15.5	11.3	10.0	8.7	7.4	6.7	6.1	5.6	5.3	5.5
57.5°	22.0	15.2	10.5	8.9	7.5	6.4	5.8	5.5	5.1	4.8	5.2
55°	19.5	13.5	8.8	7.6	6.8	6.3	5.9	5.8	5.7	5.6	5.8
52.5°	15.7	11.3	8.2	7.1	7.1	7.1	7.1	7.1	7.2	7.4	7.8
50°	12.5	9.6	8.7	8.2	8.5	8.5	8.3	8.8	9.5	9.8	10.2
47.5°	11.5	10.5	10.6	10.3	10.8	11.6	11.8	12.1	13.1	13.6	14.1
45°	12.7	13.6	14.2	15.2	15.8	17.2	17.6	17.6	19.6	21.0	21.7
42.5°	17.8	19.3	21.2	23.1	24.0	25.8	27.6	28.7	31.7	34.0	34.9
40°	26.8	27.7	31.7	34.1	35.9	38.2	43.8	47.5	53.3	64.1	72.0
37.5°	39.4	42.3	44.7	48.1	55.7	59.4	77.3	93.5	104.7	131.6	146.8
35°	57.7	65.7	63.0	78.4	97.5	121.5	147.6	186.5	217.3	253.8	287.4
32.5°	90.5	109.9	128.7	146.6	189.6	258.4	260.3	333.1	381.8	440.9	492.8
30°	143.2	211.8	298.1	326.6	447.4	582.5	545.1	656.7	767.4	833.2	1060.5
27.5°	282.7	437.2	608.6	826.2	1051.4	1283.7	1437.5	1491.3	2051.2	2462.9	2998.8
25°	483.8	754.8	1233.4	1586.0	1981.5	2497.1	2795.1	3196.2	4130.1	5293.9	6197.9
22.5°	771.0	1244.5	1876.9	2410.4	3003.1	3698.2	4326.8	5288.3	6740.6	8329.3	9680.7
20°	1092.8	1703.3	2504.6	3304.0	4080.9	4986.8	6080.5	8044.0	10288.0	12778.1	15029.4
17.5°	1686.6	2287.0	3313.1	4405.9	5509.8	6600.9	9006.2	11914.0	15426.8	19116.6	22393.9
15°	2535.2	3506.8	4524.6	5969.6	7807.1	9903.8	12949.9	18050.1	23505.8	29264.4	36129.6
12.5°	3642.6	5051.2	6577.9	8251.0	10742.3	14569.8	19622.9	25848.1	33657.3	42296.7	52065.6
10°	4772.6	6804.1	8906.6	11296.1	14579.7	19509.8	26035.4	33830.1	46111.2	58215.8	68411.3
7.5°	5691.5	8058.9	10711.6	13885.8	18165.5	24172.6	32236.9	43502.0	58147.9	72550.3	83956.1
5°	6553.5	9154.2	11915.8	15158.9	20318.5	27562.4	37274.2	51329.1	68850.4	84167.6	96389.6
2.5°	7178.8	9910.7	12767.7	16067.6	21949.9	29623.1	40285.5	57719.6	77886.7	93580.0	107593.8
0°	7455.6	9983.4	12716.4	16102.1	22003.6	30674.2	41329.7	60418.2	82069.4	98940.7	113017.5
-2.5°	7112.4	9566.5	12386.8	15694.4	21610.2	29939.5	40946.3	60114.3	81840.0	98950.1	112828.7
-5°	6749.3	9075.8	11693.9	14751.4	20145.7	27890.5	39120.5	57434.7	78282.9	95484.6	109022.9
-7.5°	6362.2	8491.6	10833.9	13577.0	18362.7	25815.4	36243.2	51700.5	71187.9	88702.2	101435.0
-10°	5919.7	7858.2	10321.3	13228.7	17394.8	23873.2	32496.9	44880.2	63132.7	79405.2	93385.1
-12.5°	5659.9	7727.5	10188.8	12859.3	16220.0	21929.1	29775.5	40338.6	52833.0	67948.5	80387.8
-15°	5325.9	7418.8	9859.8	12365.2	15476.0	19933.6	26128.6	33887.2	43394.3	53580.3	64621.4
-17.5°	4776.9	6868.6	8834.3	11185.7	14140.3	17662.2	22114.1	28135.2	34443.3	41660.5	48266.3
-20°	3872.7	5562.3	7421.3	9636.9	12176.8	14845.6	17818.6	21921.2	25922.6	30975.3	35031.7



REPORT NUMBER: P701328 (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°	2786.2	4214.4	5825.0	7656.1	9667.4	11952.3	14191.9	16356.9	19099.2	22297.5	25556.7
-25°	1814.6	2871.2	4265.9	5766.5	7171.3	8997.3	10606.3	11899.3	13748.5	15195.8	17170.9
-27.5°	1256.5	1943.3	2982.2	4177.9	5285.9	6454.7	7764.6	8647.3	10087.9	10870.8	12081.5
-30°	919.4	1304.9	2052.1	2946.4	3911.7	4906.6	5841.7	6812.2	7814.3	8700.5	9372.4
-32.5°	815.4	966.7	1335.2	1978.9	2734.3	3568.5	4360.3	5206.5	6004.7	6691.6	7245.9
-35°	744.7	829.6	945.3	1285.7	1736.5	2387.8	3010.7	3695.7	4336.8	4867.8	5312.9
-37.5°	688.7	756.7	829.6	904.2	1157.3	1442.4	1885.2	2361.2	2772.6	3242.7	3605.8
-40°	625.1	697.8	756.2	815.8	882.8	954.3	1194.1	1407.1	1639.6	1957.0	2216.3
-42.5°	559.6	622.8	688.5	744.0	794.6	848.1	902.0	949.7	1067.7	1207.7	1313.8
-45°	514.2	558.9	607.1	665.9	720.4	766.7	810.3	852.1	894.9	934.5	967.3
-47.5°	474.2	510.3	550.0	590.4	631.4	679.0	723.7	766.2	803.3	837.1	864.3
-50°	445.1	470.0	503.0	534.9	570.0	603.2	632.9	667.6	705.7	740.3	767.9
-52.5°	430.3	452.2	471.1	493.9	525.6	553.4	577.9	605.4	631.8	656.0	673.8
-55°	401.3	429.9	457.5	483.2	505.0	524.9	546.1	573.1	596.4	616.3	627.3
-57.5°	355.8	392.5	427.3	459.9	490.6	519.5	543.5	564.9	586.4	606.9	616.3
-60°	302.0	337.1	373.4	412.7	452.3	491.7	520.8	548.5	574.6	596.5	608.1
-62.5°	244.3	276.3	308.8	344.1	381.7	418.6	450.3	483.4	517.3	546.4	565.1
-65°	178.6	205.9	235.0	264.0	292.6	322.1	350.3	378.1	405.2	427.1	442.3
-67.5°	128.0	145.6	163.6	182.3	204.4	227.2	248.1	268.3	287.6	303.1	314.4
-70°	88.0	99.4	110.0	121.8	136.0	149.9	162.8	175.0	186.4	196.2	204.3
-72.5°	54.8	62.2	69.6	77.9	86.0	93.7	101.0	107.8	114.1	119.9	125.0
-75°	27.5	31.0	36.9	42.4	47.6	53.0	58.1	62.5	66.3	69.5	72.2
-77.5°	17.8	20.0	22.2	24.2	26.1	28.6	31.4	34.2	37.0	39.3	41.5
-80°	12.5	13.7	15.0	16.3	17.7	19.3	20.9	22.5	24.0	25.1	26.0
-82.5°	8.9	9.6	10.3	11.1	11.9	13.0	14.2	15.3	16.4	17.1	17.9
-85°	6.3	6.6	7.0	7.3	7.7	8.7	9.8	10.8	11.8	12.5	13.2
-87.5°	4.6	4.6	4.6	4.7	4.7	5.6	6.5	7.4	8.3	8.7	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: P701328 (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°
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°	10.5	10.7	10.9	10.9	10.9	10.7	10.5	10.2	9.8	9.5	8.8
47.5°	14.4	14.4	14.4	14.5	14.4	14.4	14.4	14.1	13.6	13.1	12.1
45°	22.0	21.8	21.5	21.7	21.5	21.8	22.0	21.7	21.0	19.6	17.6
42.5°	35.9	35.9	35.9	36.2	35.9	35.9	35.9	34.9	34.0	31.7	28.7
40°	74.1	71.5	67.7	67.6	67.7	71.5	74.1	72.0	64.1	53.3	47.5
37.5°	154.3	157.0	156.7	159.3	156.7	157.0	154.3	146.8	131.6	104.7	93.5
35°	313.0	327.0	330.2	329.4	330.2	327.0	313.0	287.4	253.8	217.3	186.5
32.5°	515.5	534.2	539.4	546.6	539.4	534.2	515.5	492.8	440.9	381.8	333.1
30°	906.4	931.5	907.5	859.1	907.5	931.5	906.4	1060.5	833.2	767.4	656.7
27.5°	3284.2	3404.6	3133.5	3034.6	3133.5	3404.6	3284.2	2998.8	2462.9	2051.2	1491.3
25°	6693.1	7225.9	7771.8	7723.5	7771.8	7225.9	6693.1	6197.9	5293.9	4130.1	3196.2
22.5°	10801.8	11341.6	11791.6	11946.6	11791.6	11341.6	10801.8	9680.7	8329.3	6740.6	5288.3
20°	17109.2	18160.5	18913.4	18111.1	18913.4	18160.5	17109.2	15029.4	12778.1	10288.0	8044.0
17.5°	27348.0	30514.0	32158.6	33197.2	32158.6	30514.0	27348.0	22393.9	19116.6	15426.8	11914.0
15°	42453.1	47227.7	49872.8	51624.5	49872.8	47227.7	42453.1	36129.6	29264.4	23505.8	18050.1
12.5°	59873.1	65078.7	67416.6	69324.7	67416.6	65078.7	59873.1	52065.6	42296.7	33657.3	25848.1
10°	76433.0	82057.0	85950.8	87974.5	85950.8	82057.0	76433.0	68411.3	58215.8	46111.2	33830.1
7.5°	91605.9	98485.7	102437.0	103694.7	102437.0	98485.7	91605.9	83956.1	72550.3	58147.9	43502.0
5°	106447.0	112585.4	117337.2	118414.7	117337.2	112585.4	106447.0	96389.6	84167.6	68850.4	51329.1
2.5°	117874.1	125230.7	129496.9	130786.6	129496.9	125230.7	117874.1	107593.8	93580.0	77886.7	57719.6
0°	123110.7	129959.4	135010.9	136822.6	135010.9	129959.4	123110.7	113017.5	98940.7	82069.4	60418.2
-2.5°	122015.5	128326.9	131942.7	132565.7	131942.7	128326.9	122015.5	112828.7	98950.1	81840.0	60114.3
-5°	118163.2	123962.1	127533.4	127635.5	127533.4	123962.1	118163.2	109022.9	95484.6	78282.9	57434.7
-7.5°	109701.5	115124.1	117613.9	118239.1	117613.9	115124.1	109701.5	101435.0	88702.2	71187.9	51700.5
-10°	101089.0	106119.8	108472.6	108732.9	108472.6	106119.8	101089.0	93385.1	79405.2	63132.7	44880.2
-12.5°	89933.1	95316.1	97665.3	98770.0	97665.3	95316.1	89933.1	80387.8	67948.5	52833.0	40338.6
-15°	73331.9	78537.3	81355.5	83436.5	81355.5	78537.3	73331.9	64621.4	53580.3	43394.3	33887.2
-17.5°	55543.9	60005.5	62782.8	65310.9	62782.8	60005.5	55543.9	48266.3	41660.5	34443.3	28135.2
-20°	39544.9	42386.3	43259.0	44621.3	43259.0	42386.3	39544.9	35031.7	30975.3	25922.6	21921.2



REPORT NUMBER: P701328 (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°	27774.4	29389.9	30413.3	30991.6	30413.3	29389.9	27774.4	25556.7	22297.5	19099.2	16356.9
-25°	18829.1	19949.5	20385.2	20887.5	20385.2	19949.5	18829.1	17170.9	15195.8	13748.5	11899.3
-27.5°	12612.5	13072.6	13386.8	13557.4	13386.8	13072.6	12612.5	12081.5	10870.8	10087.9	8647.3
-30°	9913.2	10333.9	10586.2	10666.4	10586.2	10333.9	9913.2	9372.4	8700.5	7814.3	6812.2
-32.5°	7675.1	7993.1	8163.1	8185.6	8163.1	7993.1	7675.1	7245.9	6691.6	6004.7	5206.5
-35°	5685.9	5975.5	6135.9	6124.7	6135.9	5975.5	5685.9	5312.9	4867.8	4336.8	3695.7
-37.5°	3918.1	4163.6	4314.3	4353.4	4314.3	4163.6	3918.1	3605.8	3242.7	2772.6	2361.2
-40°	2451.1	2631.5	2739.2	2753.5	2739.2	2631.5	2451.1	2216.3	1957.0	1639.6	1407.1
-42.5°	1407.0	1480.1	1521.1	1519.1	1521.1	1480.1	1407.0	1313.8	1207.7	1067.7	949.7
-45°	988.9	1005.3	1014.5	1016.0	1014.5	1005.3	988.9	967.3	934.5	894.9	852.1
-47.5°	883.9	899.4	907.6	908.6	907.6	899.4	883.9	864.3	837.1	803.3	766.2
-50°	790.1	808.4	818.4	820.5	818.4	808.4	790.1	767.9	740.3	705.7	667.6
-52.5°	688.2	700.4	704.4	702.2	704.4	700.4	688.2	673.8	656.0	631.8	605.4
-55°	637.6	647.5	651.8	652.8	651.8	647.5	637.6	627.3	616.3	596.4	573.1
-57.5°	625.4	634.3	637.0	637.1	637.0	634.3	625.4	616.3	606.9	586.4	564.9
-60°	619.6	630.6	632.8	631.1	632.8	630.6	619.6	608.1	596.5	574.6	548.5
-62.5°	581.6	595.8	600.3	599.7	600.3	595.8	581.6	565.1	546.4	517.3	483.4
-65°	455.2	465.6	470.9	473.0	470.9	465.6	455.2	442.3	427.1	405.2	378.1
-67.5°	323.7	330.9	333.2	333.0	333.2	330.9	323.7	314.4	303.1	287.6	268.3
-70°	211.1	216.7	217.2	216.0	217.2	216.7	211.1	204.3	196.2	186.4	175.0
-72.5°	129.5	133.3	133.0	131.5	133.0	133.3	129.5	125.0	119.9	114.1	107.8
-75°	74.5	76.4	75.9	74.8	75.9	76.4	74.5	72.2	69.5	66.3	62.5
-77.5°	43.5	45.5	45.8	45.9	45.8	45.5	43.5	41.5	39.3	37.0	34.2
-80°	26.9	27.7	27.8	27.8	27.8	27.7	26.9	26.0	25.1	24.0	22.5
-82.5°	18.6	19.2	19.3	19.3	19.3	19.2	18.6	17.9	17.1	16.4	15.3
-85°	13.8	14.5	14.5	14.5	14.5	14.5	13.8	13.2	12.5	11.8	10.8
-87.5°	9.4	9.7	9.7	9.7	9.7	9.7	9.4	9.0	8.7	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	8.5	9.7	10.5	10.8	10.7	10.0	9.5	9.2	8.2
65°	7.8	8.3	10.0	11.6	13.0	14.2	15.4	15.3	14.6	13.0	10.4
62.5°	7.7	8.3	9.5	11.0	13.0	16.2	19.9	21.2	21.1	18.3	14.4
60°	6.7	7.4	8.7	10.0	11.3	15.5	21.9	26.4	28.9	24.5	18.6
57.5°	5.8	6.4	7.5	8.9	10.5	15.2	22.0	30.0	35.1	28.7	22.7
55°	5.9	6.3	6.8	7.6	8.8	13.5	19.5	26.8	32.6	30.8	24.1
52.5°	7.1	7.1	7.1	7.1	8.2	11.3	15.7	22.3	25.9	25.3	23.2
50°	8.3	8.5	8.5	8.2	8.7	9.6	12.5	17.4	19.3	20.3	19.5
47.5°	11.8	11.6	10.8	10.3	10.6	10.5	11.5	12.9	15.6	15.9	16.1
45°	17.6	17.2	15.8	15.2	14.2	13.6	12.7	14.1	14.8	15.3	13.5
42.5°	27.6	25.8	24.0	23.1	21.2	19.3	17.8	18.1	17.8	17.1	16.6
40°	43.8	38.2	35.9	34.1	31.7	27.7	26.8	24.6	23.4	21.4	22.1
37.5°	77.3	59.4	55.7	48.1	44.7	42.3	39.4	35.4	30.8	32.7	32.5
35°	147.6	121.5	97.5	78.4	63.0	65.7	57.7	49.8	46.9	49.5	47.1
32.5°	260.3	258.4	189.6	146.6	128.7	109.9	90.5	70.4	77.8	76.0	67.0
30°	545.1	582.5	447.4	326.6	298.1	211.8	143.2	131.6	125.7	111.4	92.9
27.5°	1437.5	1283.7	1051.4	826.2	608.6	437.2	282.7	209.0	187.8	162.1	132.0
25°	2795.1	2497.1	1981.5	1586.0	1233.4	754.8	483.8	341.9	267.5	224.8	185.1
22.5°	4326.8	3698.2	3003.1	2410.4	1876.9	1244.5	771.0	495.3	357.3	298.6	247.7
20°	6080.5	4986.8	4080.9	3304.0	2504.6	1703.3	1092.8	740.5	506.3	381.1	311.7
17.5°	9006.2	6600.9	5509.8	4405.9	3313.1	2287.0	1686.6	1128.7	667.5	467.2	375.2
15°	12949.9	9903.8	7807.1	5969.6	4524.6	3506.8	2535.2	1623.1	895.6	585.6	454.0
12.5°	19622.9	14569.8	10742.3	8251.0	6577.9	5051.2	3642.6	2355.4	1287.6	740.5	550.2
10°	26035.4	19509.8	14579.7	11296.1	8906.6	6804.1	4772.6	3010.2	1642.7	901.4	642.5
7.5°	32236.9	24172.6	18165.5	13885.8	10711.6	8058.9	5691.5	3613.4	1952.2	1058.7	730.4
5°	37274.2	27562.4	20318.5	15158.9	11915.8	9154.2	6553.5	4179.1	2212.5	1207.5	813.3
2.5°	40285.5	29623.1	21949.9	16067.6	12767.7	9910.7	7178.8	4528.6	2334.2	1287.1	859.7
0°	41329.7	30674.2	22003.6	16102.1	12716.4	9983.4	7455.6	4640.6	2357.7	1335.7	900.1
-2.5°	40946.3	29939.5	21610.2	15694.4	12386.8	9566.5	7112.4	4660.9	2489.6	1385.9	930.8
-5°	39120.5	27890.5	20145.7	14751.4	11693.9	9075.8	6749.3	4562.9	2549.6	1409.4	954.7
-7.5°	36243.2	25815.4	18362.7	13577.0	10833.9	8491.6	6362.2	4362.3	2518.7	1393.0	958.7
-10°	32496.9	23873.2	17394.8	13228.7	10321.3	7858.2	5919.7	4080.8	2390.5	1346.0	955.2
-12.5°	29775.5	21929.1	16220.0	12859.3	10188.8	7727.5	5659.9	3751.2	2153.8	1265.8	944.3
-15°	26128.6	19933.6	15476.0	12365.2	9859.8	7418.8	5325.9	3344.3	1786.7	1141.0	925.6
-17.5°	22114.1	17662.2	14140.3	11185.7	8834.3	6868.6	4776.9	2875.1	1522.3	1011.7	877.0
-20°	17818.6	14845.6	12176.8	9636.9	7421.3	5562.3	3872.7	2244.0	1294.5	945.3	822.4



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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°	14191.9	11952.3	9667.4	7656.1	5825.0	4214.4	2786.2	1572.8	1011.5	872.2	759.6
-25°	10606.3	8997.3	7171.3	5766.5	4265.9	2871.2	1814.6	1203.5	908.1	795.9	689.2
-27.5°	7764.6	6454.7	5285.9	4177.9	2982.2	1943.3	1256.5	908.1	814.4	718.5	619.7
-30°	5841.7	4906.6	3911.7	2946.4	2052.1	1304.9	919.4	809.6	732.0	647.8	560.0
-32.5°	4360.3	3568.5	2734.3	1978.9	1335.2	966.7	815.4	721.3	658.8	585.6	518.1
-35°	3010.7	2387.8	1736.5	1285.7	945.3	829.6	744.7	668.8	594.0	530.6	481.1
-37.5°	1885.2	1442.4	1157.3	904.2	829.6	756.7	688.7	613.2	538.4	491.5	448.7
-40°	1194.1	954.3	882.8	815.8	756.2	697.8	625.1	552.8	502.9	456.0	418.6
-42.5°	902.0	848.1	794.6	744.0	688.5	622.8	559.6	512.4	467.9	427.5	395.6
-45°	810.3	766.7	720.4	665.9	607.1	558.9	514.2	473.9	435.5	405.8	375.1
-47.5°	723.7	679.0	631.4	590.4	550.0	510.3	474.2	438.5	414.9	387.1	348.1
-50°	632.9	603.2	570.0	534.9	503.0	470.0	445.1	422.2	394.9	359.7	318.5
-52.5°	577.9	553.4	525.6	493.9	471.1	452.2	430.3	399.6	367.6	325.9	281.2
-55°	546.1	524.9	505.0	483.2	457.5	429.9	401.3	367.1	326.1	284.2	243.6
-57.5°	543.5	519.5	490.6	459.9	427.3	392.5	355.8	318.2	280.4	242.4	205.0
-60°	520.8	491.7	452.3	412.7	373.4	337.1	302.0	267.3	233.2	199.0	165.7
-62.5°	450.3	418.6	381.7	344.1	308.8	276.3	244.3	212.4	182.6	154.3	127.4
-65°	350.3	322.1	292.6	264.0	235.0	205.9	178.6	156.1	135.1	113.1	90.8
-67.5°	248.1	227.2	204.4	182.3	163.6	145.6	128.0	109.7	94.7	81.8	68.8
-70°	162.8	149.9	136.0	121.8	110.0	99.4	88.0	76.7	66.1	56.3	46.2
-72.5°	101.0	93.7	86.0	77.9	69.6	62.2	54.8	47.0	39.2	31.1	25.2
-75°	58.1	53.0	47.6	42.4	36.9	31.0	27.5	25.1	22.7	20.3	17.8
-77.5°	31.4	28.6	26.1	24.2	22.2	20.0	17.8	16.3	15.2	14.3	13.3
-80°	20.9	19.3	17.7	16.3	15.0	13.7	12.5	11.8	11.2	10.7	10.2
-82.5°	14.2	13.0	11.9	11.1	10.3	9.6	8.9	8.6	8.3	8.0	7.6
-85°	9.8	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°	11.5	9.6	8.4	7.2	6.3	5.9	6.0	6.0	6.0	5.9	5.9
60°	14.1	11.3	9.7	8.4	7.0	6.1	6.0	6.0	6.0	6.0	6.0
57.5°	16.9	12.6	10.8	9.5	8.1	6.7	6.0	6.0	6.0	6.0	6.0
55°	18.7	14.3	11.9	10.3	9.0	7.6	6.3	6.0	6.0	6.0	6.0
52.5°	18.5	15.3	13.1	11.1	9.6	8.5	7.1	6.0	6.0	6.0	6.0
50°	16.7	15.7	13.9	11.8	10.1	8.9	7.8	6.5	6.0	6.0	6.0
47.5°	16.0	16.0	14.4	12.3	10.4	9.3	8.3	7.1	6.0	6.0	6.0
45°	15.7	16.5	15.1	12.8	10.7	9.7	8.6	7.5	6.4	6.0	6.0
42.5°	16.0	17.3	16.4	13.4	11.8	10.0	8.9	7.8	6.7	6.1	6.0
40°	20.5	18.6	18.1	16.5	13.3	10.4	9.2	8.1	7.0	6.3	6.1
37.5°	26.5	22.7	20.1	22.0	16.0	12.0	9.5	8.3	7.4	6.7	6.3
35°	39.2	29.3	27.6	29.2	22.8	13.9	9.8	8.5	7.8	7.0	6.4
32.5°	55.1	43.9	41.9	38.0	31.3	16.0	10.9	9.1	8.1	7.3	6.6
30°	78.5	70.7	59.8	48.6	41.1	23.7	13.1	9.9	8.5	7.6	6.8
27.5°	114.0	100.5	82.0	64.9	51.2	33.2	16.0	10.9	8.9	7.9	7.0
25°	155.1	134.2	110.2	84.9	62.6	46.1	19.1	12.1	9.5	8.2	7.3
22.5°	205.1	170.4	140.4	106.9	79.8	60.7	26.0	14.6	10.3	8.5	7.5
20°	257.3	208.4	172.8	131.5	100.4	75.2	37.2	17.2	11.3	8.8	7.7
17.5°	311.6	256.8	211.8	160.5	121.5	90.7	49.2	19.7	12.2	9.0	7.9
15°	384.8	318.6	254.5	191.3	141.7	107.0	61.6	22.3	13.3	9.3	8.2
12.5°	462.1	383.1	299.7	223.1	160.9	123.8	74.1	24.8	14.3	9.9	8.4
10°	538.7	449.0	346.3	255.3	179.0	140.7	86.5	28.3	16.6	11.0	8.7
7.5°	614.0	515.0	393.2	286.9	198.3	162.6	106.9	34.1	19.2	12.2	9.0
5°	681.9	573.8	439.5	325.6	229.2	189.6	128.4	39.8	21.7	13.4	9.2
2.5°	725.1	619.5	482.9	362.9	259.3	215.6	148.9	45.4	24.2	14.6	9.5
0°	763.8	660.0	522.5	397.0	288.4	240.1	167.7	50.7	26.5	15.7	9.7
-2.5°	788.3	683.8	544.1	424.1	318.4	267.0	190.5	65.6	35.1	20.2	11.6
-5°	808.8	702.4	562.2	448.3	347.1	291.9	210.0	79.6	43.3	24.5	13.3
-7.5°	816.2	706.1	571.6	467.4	374.1	314.7	225.8	92.4	51.0	28.5	15.0
-10°	816.3	698.3	568.5	467.1	380.7	324.3	235.3	103.6	57.7	32.0	16.5
-12.5°	810.5	685.0	562.7	463.5	381.9	321.7	228.4	111.0	63.5	34.9	17.7
-15°	798.5	666.5	554.4	456.8	381.1	317.4	219.9	115.9	67.9	37.4	18.7
-17.5°	773.9	642.6	543.8	446.7	378.2	311.5	210.1	119.2	71.1	39.4	19.7
-20°	716.2	608.2	530.9	433.4	373.1	304.1	199.5	120.7	73.1	40.6	20.7



REPORT NUMBER: P701328 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	655.5	568.5	498.1	424.7	364.6	295.2	188.4	120.4	73.8	40.8	21.3
-25°	593.2	528.1	462.5	404.6	352.4	278.5	181.9	118.2	73.0	40.1	21.6
-27.5°	543.0	487.7	428.2	384.5	332.4	262.4	178.5	117.0	71.3	38.4	21.4
-30°	497.9	450.2	403.4	363.7	312.0	239.6	172.7	113.9	69.2	37.3	20.8
-32.5°	462.6	415.5	381.4	340.5	286.9	216.4	160.3	108.8	65.8	36.5	20.3
-35°	434.4	392.0	359.7	317.4	259.8	198.1	145.0	101.6	60.8	35.1	19.5
-37.5°	406.7	374.1	334.8	291.5	232.9	178.2	130.8	90.5	54.3	33.0	18.4
-40°	387.1	353.3	312.5	262.4	208.5	156.7	115.5	79.7	50.1	30.3	16.8
-42.5°	366.5	328.2	284.2	234.0	183.6	138.7	99.7	68.3	45.3	27.7	14.8
-45°	338.5	299.4	253.1	205.7	158.0	119.7	86.5	57.2	40.0	24.9	13.1
-47.5°	307.8	265.4	221.9	176.9	136.3	101.0	72.8	50.8	34.4	21.5	12.2
-50°	271.3	231.5	190.8	151.5	114.3	85.5	60.3	44.0	29.6	17.4	11.0
-52.5°	237.7	198.5	161.9	126.5	95.9	69.6	52.2	37.0	24.4	14.7	9.6
-55°	203.7	166.9	133.8	103.8	77.3	58.7	43.8	30.6	18.8	12.7	8.2
-57.5°	169.5	135.9	107.5	81.5	63.1	48.8	35.6	23.8	15.5	10.6	8.0
-60°	134.6	106.7	81.2	65.3	51.8	39.0	27.4	17.9	12.7	8.6	7.8
-62.5°	101.5	79.0	65.1	52.5	40.3	29.1	19.6	14.3	9.7	8.3	7.5
-65°	76.2	62.8	50.7	39.2	28.5	20.1	15.2	10.6	8.8	8.0	7.3
-67.5°	56.7	45.5	35.1	25.2	19.7	15.3	10.7	9.1	8.4	7.6	7.3
-70°	36.5	27.3	22.2	18.4	14.4	10.8	9.5	8.7	8.0	7.5	7.3
-72.5°	22.2	19.1	16.0	12.8	11.2	9.9	8.9	8.2	7.7	7.4	7.2
-75°	15.2	13.6	12.3	11.0	9.8	8.9	8.3	7.8	7.4	7.2	6.9
-77.5°	12.1	11.0	10.0	9.3	8.6	8.1	7.6	7.3	7.1	6.8	6.6
-80°	9.5	8.9	8.4	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: P701328 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	7.9	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°	9.1	7.1	6.0	6.0	6.0	4.8	4.8
-10°	9.6	7.1	6.0	6.0	6.0	4.8	4.8
-12.5°	10.0	7.1	6.0	6.0	5.9	4.8	4.8
-15°	10.3	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°	10.7	6.8	6.0	6.0	5.9	4.8	4.8



REPORT NUMBER: P701328 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-4S-CV2-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	11.1	6.7	6.0	6.0	5.8	4.8	4.8
-25°	11.3	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

