

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: P731414 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-70-4S-CV1**

Issue Date: 11/16/2023

**Test Information**

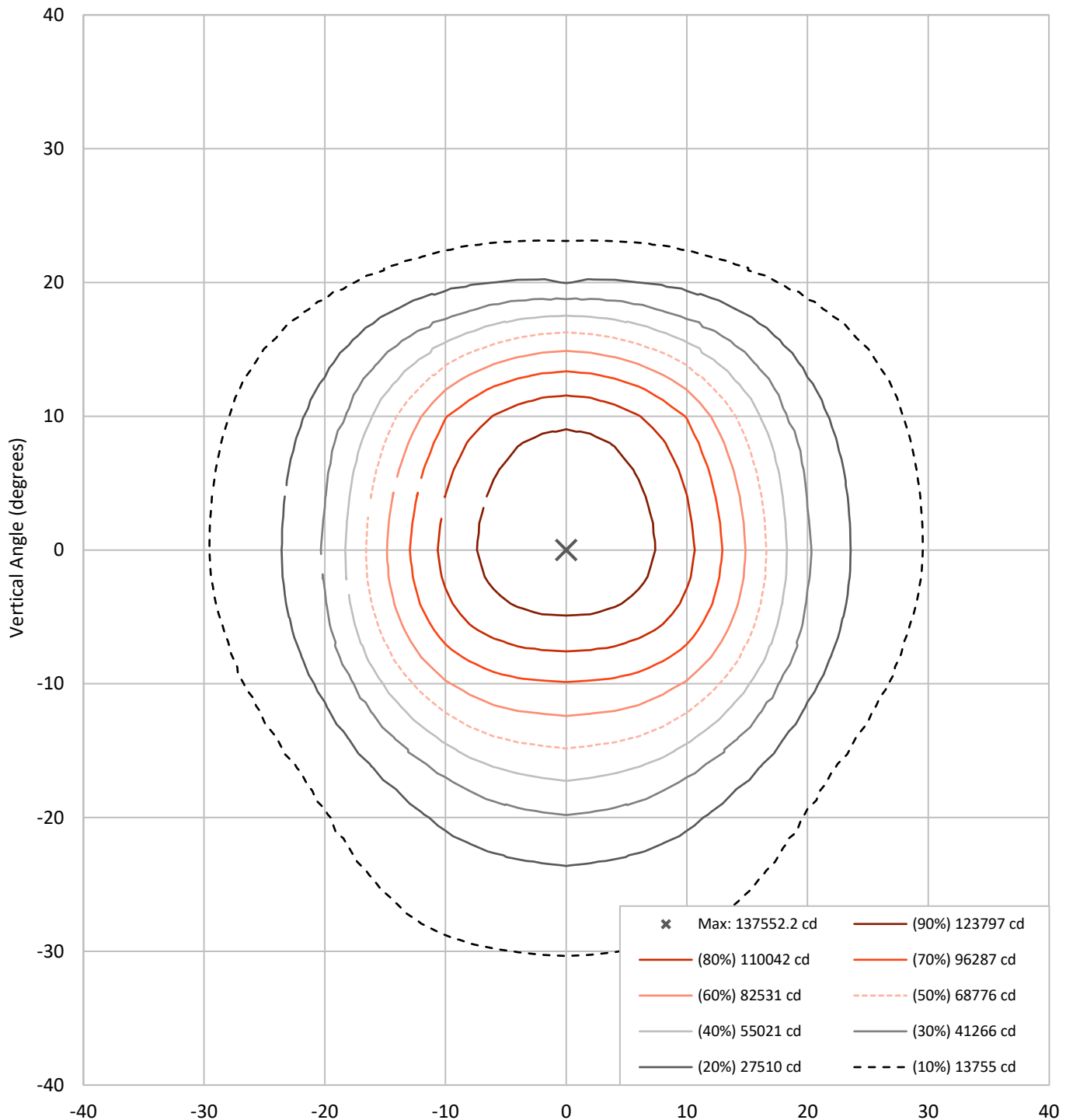
Test Method: LM-79-08  
Report Number: P731414 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-57-70-4S-CV1  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 4S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	46866.9 lumens	Max Intensity:	137552.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	135.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	33.1°H x 31.1°V	Field Angle (10%):	59.1°H x 53.4°V
Beam Lumens:	25614.6 lumens	Field Lumens:	41273.4 lumens
Beam Efficiency:	54.7%	Field Efficiency:	88.1%
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





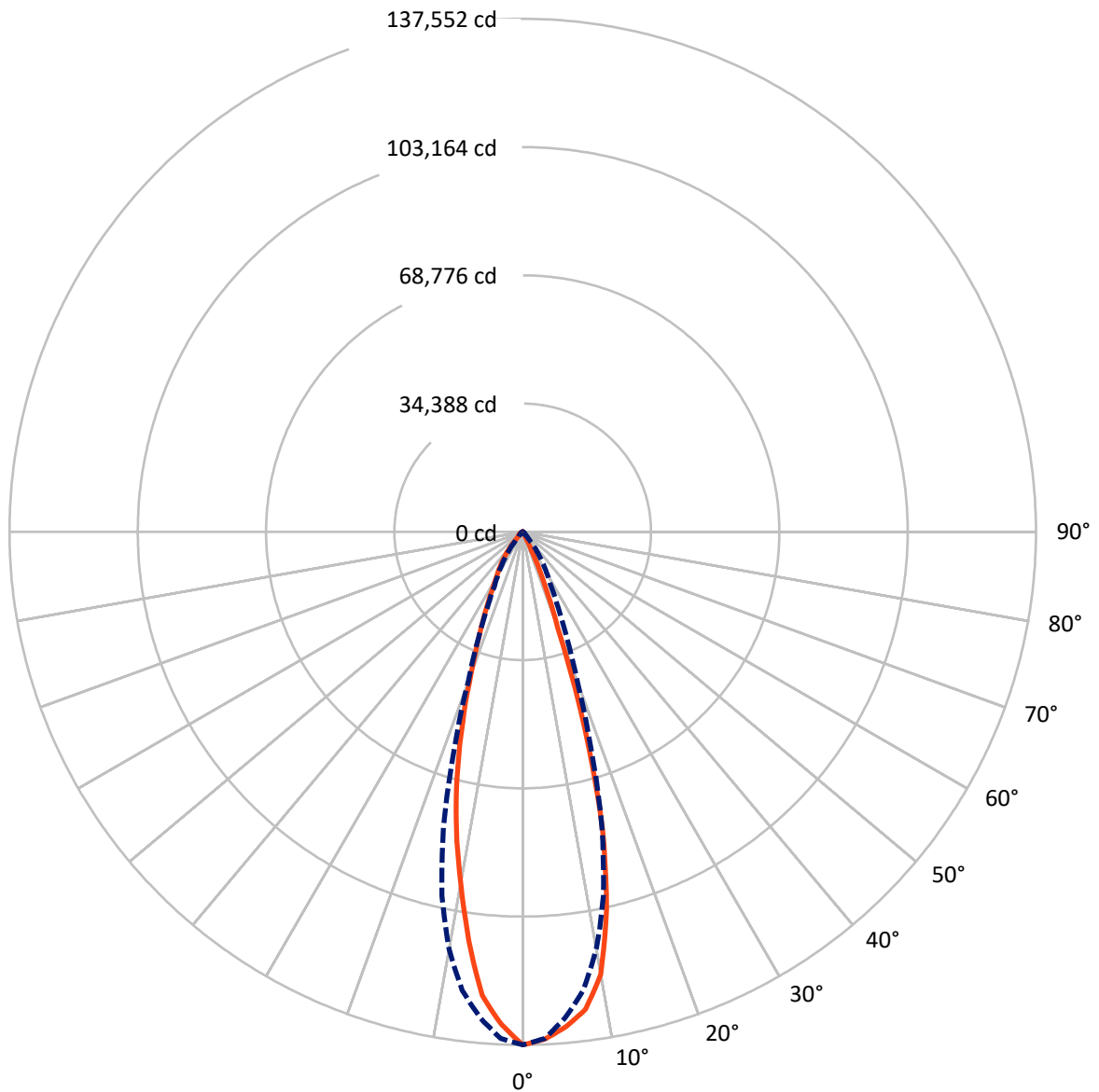
REPORT NUMBER: P731414 (CONVERTED FROM TYPE C PHOTOMETRY)  
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### Lumen Table

90																			
80	0.0	0.1		0.2		0.3		0.2		0.3		0.2		0.1		0.0			
70																			
60	0.0	0.0	0.1	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.1	0.0	0.0			
50		0.0	0.2	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.2	0.0				
40	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0.1			
30		0.1	0.5	1.4	2.5	4.4	6.7	8.3	8.3	6.7	4.4	2.5	1.4	0.5	0.1				
20	0.1	0.3	2.3	7.0	27.8	86.9	173.9	282.4	282.4	173.9	86.9	27.8	7.0	2.3	0.3	0.1			
10		0.7	5.2	17.0	115.0	392.7	1172.0	2185.0	2185.0	1172.0	392.7	115.0	17.0	5.2	0.7				
0	0.1	1.2	7.2	24.3	179.1	638.0	2187.9	3747.5	3747.5	2187.9	638.0	179.1	24.3	7.2	1.2	0.1			
-10		1.5	7.6	25.0	176.8	615.5	2117.7	3488.3	3488.3	2117.7	615.5	176.8	25.0	7.6	1.5				
-20	0.3	1.8	7.3	19.2	105.1	347.8	1068.7	1905.0	1905.0	1068.7	347.8	105.1	19.2	7.3	1.8	0.3			
-30		1.8	7.0	14.8	49.5	188.5	434.3	692.8	692.8	434.3	188.5	49.5	14.8	7.0	1.8				
-40	0.2	1.5	6.3	12.7	24.4	70.0	175.4	266.4	266.4	175.4	70.0	24.4	12.7	6.3	1.5	0.2			
-50		1.0	4.6	10.8	18.3	27.9	42.4	57.6	57.6	42.4	27.9	18.3	10.8	4.6	1.0				
-60	0.1	0.5	2.4	7.1	13.7	19.8	25.4	29.1	29.1	25.4	19.8	13.7	7.1	2.4	0.5	0.1			
-70		0.2	0.8	2.5	5.5	9.2	13.0	15.0	15.0	13.0	9.2	5.5	2.5	0.8	0.2				
-80	0.1	0.4		1.7		4.4		5.9		4.4		1.7		0.4		0.1			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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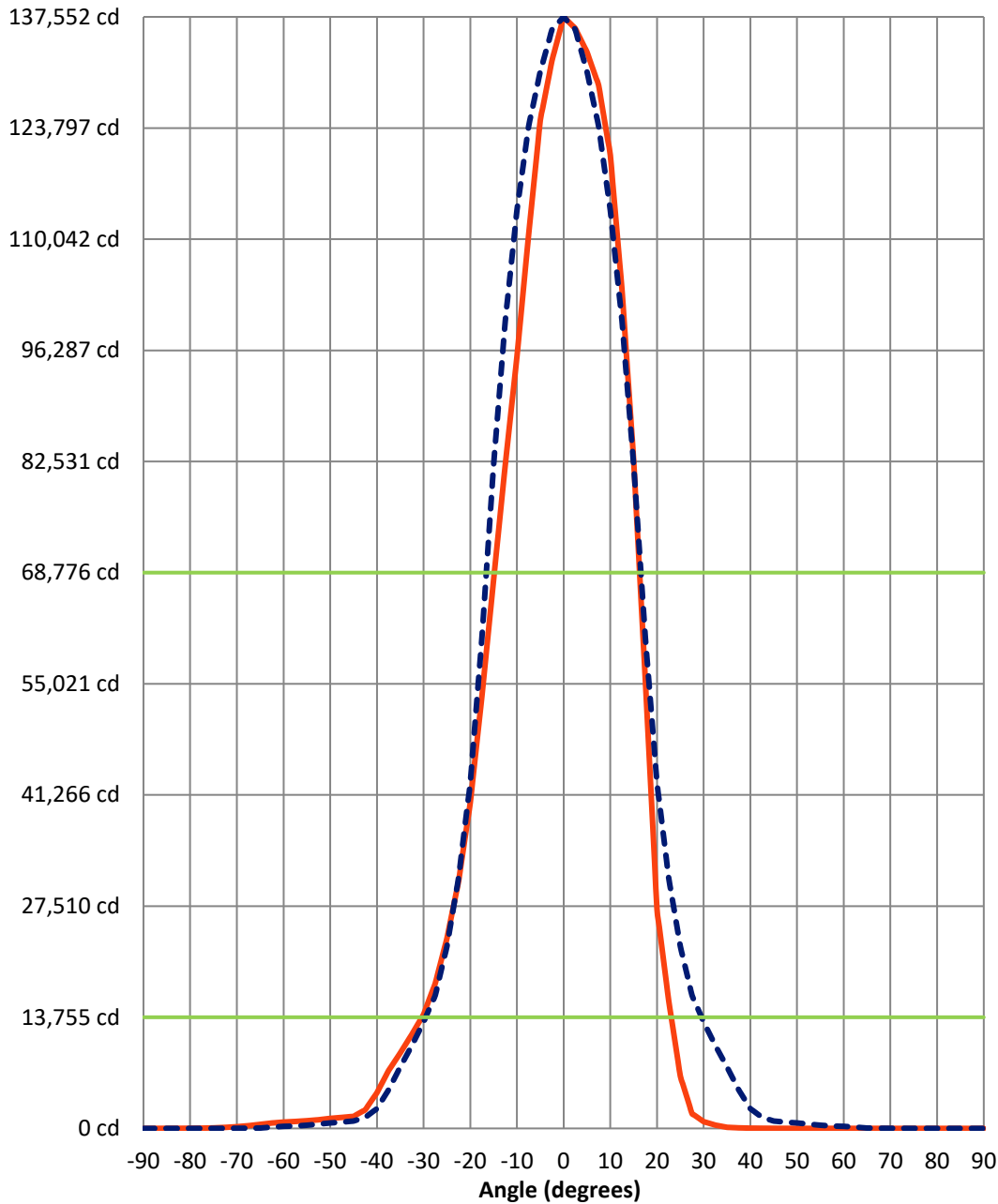
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 33.1°  
V Angle: 31.1°  
Lumens: 25614.6  
Efficiency: 54.7%

**Field:**  
H Angle: 59.1°  
V Angle: 53.4°  
Lumens: 41273.4  
Efficiency: 88.1%

**Spill:**  
Lumens: 5593.5  
Efficiency: 11.9%

— 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	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	2.4	1.8	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2
85°	2.4	1.9	1.4	1.4	1.4	1.3	1.2	1.2	1.2	1.2	1.2
82.5°	2.4	1.9	1.5	1.6	1.5	1.4	1.2	1.2	1.2	1.2	1.2
80°	2.4	1.9	1.6	1.7	1.6	1.5	1.3	1.4	1.4	1.4	1.2
77.5°	2.4	1.9	1.7	1.8	1.7	1.6	1.6	1.7	1.7	1.5	1.4
75°	2.4	2.0	1.8	1.9	1.9	1.8	1.9	2.0	1.9	1.8	1.9
72.5°	2.4	2.0	1.9	2.0	2.0	2.0	2.2	2.2	2.1	2.1	2.3
70°	2.4	2.0	2.0	2.2	2.1	2.2	2.4	2.3	2.3	2.4	2.4
67.5°	2.4	2.1	2.1	2.2	2.2	2.3	2.4	2.3	2.4	2.4	2.4
65°	2.4	2.1	2.2	2.2	2.2	2.4	2.4	2.4	2.4	2.4	2.4
62.5°	2.4	2.1	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4
60°	2.4	2.1	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4
57.5°	2.4	2.2	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4
55°	2.4	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
52.5°	2.4	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
50°	2.4	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1
47.5°	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.9
45°	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1	4.7
42.5°	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.5	3.7	5.6
40°	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.5	2.8	4.4	6.6
37.5°	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.7	3.4	5.1	7.6
35°	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.8	4.0	6.1	8.5
32.5°	2.4	2.3	2.4	2.4	2.4	2.4	2.4	3.0	4.5	6.9	9.4
30°	2.4	2.4	2.4	2.4	2.4	2.4	2.6	3.2	5.1	7.8	10.5
27.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.7	3.6	5.6	8.6	11.7
25°	2.4	2.4	2.4	2.4	2.4	2.4	2.8	4.0	6.3	9.5	13.1
22.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.0	4.4	6.9	10.5	15.8
20°	2.4	2.4	2.4	2.4	2.4	2.5	3.1	4.8	7.5	11.6	18.9
17.5°	2.4	2.4	2.4	2.4	2.4	2.6	3.4	5.1	8.0	12.7	22.1
15°	2.4	2.4	2.4	2.4	2.4	2.7	3.6	5.5	8.4	13.8	25.5
12.5°	2.4	2.4	2.4	2.4	2.4	2.9	3.8	6.0	9.2	14.9	28.8
10°	2.4	2.4	2.4	2.4	2.4	3.0	4.0	6.5	10.3	17.0	32.4
7.5°	2.4	2.4	2.4	2.4	2.4	3.2	4.3	7.0	11.4	19.1	36.0
5°	2.4	2.4	2.4	2.4	2.4	3.3	4.5	7.5	12.4	21.1	39.4
2.5°	2.4	2.4	2.4	2.4	2.4	3.5	4.6	7.9	13.4	23.1	42.4
0°	2.4	2.4	2.4	2.4	2.4	3.6	4.8	8.3	14.3	24.9	45.1
-2.5°	2.4	2.4	2.4	2.4	2.5	4.0	5.9	10.5	19.2	33.6	58.2
-5°	2.4	2.4	2.4	2.4	2.6	4.3	7.0	12.7	23.9	42.0	70.6
-7.5°	2.4	2.4	2.4	2.4	2.7	4.7	8.0	14.6	28.2	49.8	82.1
-10°	2.4	2.4	2.4	2.4	2.8	5.0	8.9	16.5	32.1	56.8	92.5
-12.5°	2.4	2.4	2.4	2.4	2.9	5.2	9.7	18.1	35.4	62.8	101.7
-15°	2.4	2.4	2.4	2.4	2.9	5.4	10.3	19.4	38.1	67.4	109.3
-17.5°	2.4	2.4	2.4	2.4	3.0	5.6	10.9	20.7	40.1	70.8	114.9
-20°	2.4	2.4	2.4	2.4	3.0	5.7	11.3	21.8	41.4	73.0	118.3



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.4	2.4	2.4	2.4	3.0	5.7	11.7	22.5	41.9	73.8	119.3
-25°	2.4	2.4	2.4	2.4	3.0	5.7	11.9	22.8	41.4	73.1	117.9
-27.5°	2.4	2.4	2.4	2.4	3.0	5.7	11.8	22.7	40.0	71.5	116.8
-30°	2.4	2.4	2.4	2.4	3.0	5.6	11.5	22.1	39.1	69.8	113.8
-32.5°	2.4	2.4	2.4	2.4	3.0	5.4	10.9	21.6	38.4	66.8	108.7
-35°	2.4	2.4	2.4	2.4	3.0	5.1	10.5	20.9	36.9	62.4	101.4
-37.5°	2.4	2.4	2.4	2.4	3.0	4.8	10.1	19.8	34.9	56.7	92.4
-40°	2.4	2.4	2.4	2.4	3.0	4.8	9.5	18.2	32.1	52.6	83.3
-42.5°	2.4	2.4	2.4	2.4	3.0	4.7	8.7	16.3	29.5	48.0	72.9
-45°	2.4	2.4	2.4	2.4	3.1	4.6	7.8	14.5	26.8	42.7	62.1
-47.5°	2.4	2.4	2.4	2.5	3.1	4.5	6.7	13.2	23.6	37.0	55.5
-50°	2.4	2.4	2.4	2.5	3.1	4.4	6.4	11.6	19.5	32.2	48.3
-52.5°	2.4	2.4	2.4	2.5	3.0	4.2	6.1	9.8	16.5	26.8	40.6
-55°	2.4	2.4	2.4	2.5	3.0	4.1	5.8	8.0	14.0	21.0	33.8
-57.5°	2.4	2.4	2.4	2.5	2.9	3.9	5.5	7.6	11.3	17.3	26.4
-60°	2.4	2.4	2.4	2.5	2.8	3.8	5.2	7.1	9.0	14.2	19.9
-62.5°	2.4	2.4	2.4	2.5	2.8	3.5	4.8	6.5	8.3	10.9	16.2
-65°	2.4	2.4	2.4	2.5	2.7	3.3	4.5	5.9	7.6	9.5	12.4
-67.5°	2.4	2.4	2.4	2.4	2.7	3.1	4.0	5.4	6.8	8.5	10.3
-70°	2.4	2.4	2.4	2.4	2.6	3.0	3.6	4.8	6.1	7.4	9.1
-72.5°	2.4	2.4	2.4	2.4	2.5	2.8	3.3	4.2	5.4	6.6	7.9
-75°	2.4	2.4	2.4	2.4	2.4	2.6	3.0	3.7	4.7	5.8	7.0
-77.5°	2.4	2.4	2.4	2.4	2.4	2.5	2.7	3.4	4.1	5.0	6.0
-80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0	3.6	4.3	5.1
-82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.7	3.0	3.6	4.2
-85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.8	3.1	3.4
-87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.6	2.7	2.9
-90°	2.4	1.8	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):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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	1.5	1.6	1.7
80°	1.2	1.2	1.2	1.2	1.3	1.5	1.8	2.1	2.3	2.4	2.4
77.5°	1.5	1.5	1.5	1.3	1.4	1.7	2.0	2.3	2.4	2.4	2.4
75°	1.9	1.9	1.6	1.3	1.4	1.7	2.0	2.3	2.4	2.4	2.4
72.5°	2.2	1.9	1.6	1.4	1.6	2.0	2.3	2.4	2.9	3.7	4.1
70°	2.3	2.0	1.9	1.9	2.2	2.7	3.7	5.0	6.2	6.7	7.2
67.5°	2.3	2.2	2.2	2.5	3.4	4.5	6.0	7.8	9.7	10.4	11.1
65°	2.4	2.4	2.7	3.5	4.7	6.5	8.5	10.7	13.9	15.6	16.3
62.5°	2.4	2.6	3.2	4.5	6.4	8.5	11.3	14.8	19.1	21.9	21.8
60°	2.4	2.7	4.0	6.0	8.1	10.7	14.2	19.1	25.2	29.5	26.6
57.5°	2.4	3.2	5.1	7.3	9.7	12.5	17.4	23.4	29.0	34.8	29.9
55°	2.7	4.1	6.2	8.5	11.3	14.7	19.4	24.2	30.3	32.5	27.2
52.5°	3.7	5.0	7.0	9.8	13.2	15.9	18.5	22.7	25.1	26.1	22.4
50°	4.6	6.0	7.9	11.2	14.1	15.7	16.0	18.7	19.8	18.9	17.1
47.5°	5.6	7.1	9.0	12.3	14.3	15.0	14.5	15.0	14.9	14.7	12.4
45°	6.6	8.4	10.5	12.7	14.2	14.0	13.8	12.1	13.7	13.3	12.2
42.5°	7.7	9.6	11.7	13.2	13.6	14.3	14.2	14.7	14.8	15.4	16.6
40°	8.7	10.7	13.1	14.2	13.8	16.0	19.2	20.8	18.7	22.6	25.9
37.5°	9.6	12.2	15.3	17.7	16.3	21.2	26.4	34.7	35.9	33.3	42.6
35°	10.4	13.9	20.3	25.9	27.3	29.6	44.2	57.5	65.8	61.0	68.1
32.5°	11.7	15.7	27.1	39.4	49.2	51.9	67.3	95.2	111.5	114.4	109.8
30°	13.7	22.1	37.4	56.4	78.2	97.8	111.3	143.2	169.9	199.0	216.3
27.5°	16.7	30.3	53.7	83.3	116.2	152.8	183.1	207.7	256.5	306.0	348.6
25°	20.3	47.2	72.4	116.9	169.2	219.6	261.9	299.6	363.9	441.1	570.4
22.5°	29.1	68.8	103.6	154.7	228.1	292.0	349.0	407.6	486.1	590.2	860.4
20°	44.9	95.7	139.2	193.6	288.9	367.4	439.7	513.5	611.8	829.7	1422.6
17.5°	63.0	123.8	173.5	236.5	334.2	434.0	533.2	614.6	733.7	1055.2	2041.6
15°	82.9	152.7	204.4	275.7	377.1	485.7	596.6	713.1	894.6	1355.7	2629.1
12.5°	103.9	182.0	232.3	311.3	417.4	534.9	647.5	773.6	1039.9	1811.6	3376.6
10°	125.4	211.1	257.5	343.3	454.8	581.0	692.8	824.5	1153.7	2103.4	3898.7
7.5°	139.1	231.8	278.0	371.8	488.9	623.6	733.0	866.5	1250.1	2288.7	4263.6
5°	149.5	242.3	284.8	384.6	511.4	654.7	764.1	900.2	1327.8	2379.3	4515.8
2.5°	157.4	250.6	290.3	392.3	525.1	669.2	773.3	912.9	1360.0	2434.0	4690.5
0°	162.8	256.6	294.6	396.8	534.6	678.3	778.1	919.5	1365.0	2449.6	4775.7
-2.5°	171.7	261.3	303.5	404.8	539.6	681.2	782.1	924.7	1384.9	2522.9	4905.9
-5°	178.2	264.1	311.0	409.7	540.4	679.1	782.1	923.4	1373.4	2497.4	4741.6
-7.5°	182.7	265.3	317.0	411.4	533.2	664.2	766.2	897.1	1301.3	2336.8	4295.7
-10°	185.9	269.1	324.5	408.9	517.4	640.0	743.7	865.1	1208.5	2111.1	3779.0
-12.5°	190.9	275.4	331.8	405.2	500.9	612.3	717.6	828.0	1096.0	1820.5	3194.8
-15°	193.4	280.6	338.6	400.9	484.6	581.5	688.1	786.2	969.8	1469.8	2546.4
-17.5°	193.5	285.0	345.1	396.6	469.6	548.1	658.5	755.9	880.9	1254.2	2094.4
-20°	191.0	288.6	351.3	392.7	457.2	527.3	634.3	734.4	844.6	1092.7	1645.9



REPORT NUMBER: P731414 (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°	186.1	291.7	355.4	395.8	452.7	518.7	606.7	708.9	806.8	920.3	1303.6
-25°	182.9	283.9	355.9	399.0	447.9	509.5	577.0	678.8	771.5	880.7	1123.3
-27.5°	180.7	273.2	349.4	399.8	442.0	500.5	559.8	643.4	744.5	846.0	956.9
-30°	175.1	253.7	340.3	396.1	439.6	492.3	548.1	611.1	713.5	811.9	914.0
-32.5°	164.0	233.2	320.3	384.2	435.7	483.2	536.3	593.0	674.0	775.5	869.3
-35°	151.1	217.3	295.5	369.2	428.0	474.2	522.7	576.2	635.9	728.0	832.4
-37.5°	139.1	198.8	270.2	347.1	408.8	464.8	507.1	557.8	613.3	676.8	781.0
-40°	124.8	177.8	246.3	318.8	387.9	449.3	497.0	537.6	588.9	653.6	718.2
-42.5°	109.0	159.7	220.6	289.7	358.1	423.5	485.3	524.9	570.2	630.5	692.4
-45°	95.9	139.1	193.1	257.1	323.0	391.2	453.9	515.8	559.2	607.6	666.3
-47.5°	81.3	117.8	167.3	221.8	284.6	349.5	416.6	481.0	547.2	593.5	639.6
-50°	67.3	99.7	138.6	188.8	243.5	304.7	367.9	438.5	505.2	569.7	623.2
-52.5°	58.5	79.9	114.9	155.4	204.0	257.2	317.5	382.9	451.6	520.1	578.9
-55°	48.9	67.0	91.0	125.7	165.4	212.1	263.9	323.8	386.2	451.8	513.9
-57.5°	39.8	55.4	73.2	97.4	131.1	167.9	212.8	262.1	318.1	376.2	428.1
-60°	30.5	43.8	59.1	76.6	98.0	129.5	161.8	202.5	249.1	296.0	341.3
-62.5°	21.7	32.5	45.3	59.7	76.6	93.7	119.4	149.2	180.0	218.1	255.7
-65°	17.4	22.5	31.9	44.0	56.9	71.6	86.9	102.6	127.8	153.0	177.1
-67.5°	12.8	17.3	22.1	28.4	39.4	50.4	62.3	76.0	89.7	102.5	117.9
-70°	10.8	12.5	16.2	20.5	24.8	30.0	39.6	49.9	60.5	70.6	81.3
-72.5°	9.3	10.9	12.4	13.9	17.3	20.5	23.5	26.2	32.3	40.7	48.8
-75°	8.0	9.2	10.6	12.0	13.1	14.1	15.4	17.9	20.5	22.9	25.2
-77.5°	6.7	7.6	8.6	9.9	10.8	11.5	12.3	13.1	14.2	15.5	16.8
-80°	5.5	5.9	6.5	7.2	8.1	8.8	9.5	10.0	10.7	11.6	12.5
-82.5°	4.5	4.7	5.0	5.3	5.7	6.3	6.9	7.5	7.9	8.3	8.8
-85°	3.5	3.6	3.8	3.9	4.2	4.4	4.7	5.0	5.4	5.7	6.0
-87.5°	3.0	3.0	3.0	3.1	3.1	3.2	3.2	3.2	3.5	3.8	4.1
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



REPORT NUMBER: P731414 (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°	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	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°	1.7	1.7	1.6	1.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	2.4	2.2	2.1	2.0	2.0	1.8	1.7	1.5	1.2	1.2	1.2
77.5°	2.4	2.4	2.4	2.4	2.4	2.2	1.9	1.5	1.2	1.2	1.2
75°	2.4	2.5	2.7	2.6	2.5	2.3	2.2	2.2	2.2	2.0	1.8
72.5°	4.3	4.2	4.0	4.0	3.8	3.8	3.8	3.7	3.4	3.4	3.4
70°	7.6	7.8	7.8	7.5	6.8	6.1	5.6	5.2	4.7	4.4	4.2
67.5°	11.7	11.8	11.2	10.1	8.4	6.9	6.3	5.7	5.1	4.9	5.1
65°	16.3	14.8	13.0	11.0	8.9	7.0	6.5	6.1	5.7	5.8	6.2
62.5°	20.0	16.2	13.0	10.8	8.8	7.0	6.4	5.9	5.5	5.1	5.1
60°	22.2	16.3	11.7	9.7	7.8	6.2	5.5	5.1	4.9	4.8	4.8
57.5°	22.2	15.4	10.2	8.3	6.7	5.3	4.8	4.8	4.8	4.8	4.8
55°	19.7	13.4	8.7	7.2	6.1	5.3	4.8	5.0	5.0	4.8	5.0
52.5°	15.5	11.1	8.1	6.7	6.2	6.0	5.8	5.8	5.7	5.5	5.7
50°	12.3	9.2	7.8	7.0	7.0	7.0	7.0	7.1	7.3	7.4	7.4
47.5°	10.3	8.6	8.8	8.1	8.4	9.2	9.3	9.4	9.8	9.8	9.6
45°	10.5	12.2	12.6	12.4	12.3	14.0	13.9	12.7	14.2	14.7	14.3
42.5°	17.4	18.9	19.9	20.8	21.8	23.1	23.8	23.4	24.8	24.8	23.2
40°	29.5	28.1	30.4	33.1	35.5	36.4	38.6	41.0	41.9	41.4	39.8
37.5°	48.4	46.3	46.5	52.5	58.1	51.5	61.2	65.1	62.7	71.3	73.0
35°	80.4	88.9	76.6	98.3	109.0	103.8	115.4	138.2	120.5	152.9	160.9
32.5°	143.0	163.4	176.2	194.5	221.4	256.8	265.7	322.1	340.2	366.3	394.5
30°	233.6	291.4	397.6	417.4	443.0	565.0	598.5	629.2	693.4	742.9	827.0
27.5°	424.6	580.1	802.4	998.0	983.7	1190.0	1419.6	1162.5	1543.9	1390.9	1756.8
25°	795.0	1138.0	1673.9	2192.3	2439.7	2860.1	3385.9	3286.4	3980.1	4028.2	5051.4
22.5°	1512.0	2257.3	3076.6	3958.0	4813.0	5759.2	6668.4	7621.6	9054.6	11034.6	12958.9
20°	2474.0	3569.7	4893.0	6257.6	7704.8	9176.3	10885.9	13781.1	16749.6	20870.1	23781.0
17.5°	3516.2	5260.3	6884.7	8575.4	10598.6	13044.5	16580.9	21527.9	27528.3	33687.8	38452.8
15°	4426.6	6399.6	8741.1	10995.2	13510.9	17182.4	22736.7	30064.1	38987.5	48351.2	59674.3
12.5°	5307.5	7368.4	9912.9	12764.0	16182.6	21437.7	28637.4	38539.7	50360.9	64431.8	78974.9
10°	5991.1	8252.4	11084.4	14295.3	18467.8	24922.1	33288.7	44979.7	62497.0	79107.5	95714.7
7.5°	6525.4	9069.2	12069.0	15438.8	20297.2	27564.8	37574.7	52291.5	70800.0	88772.1	104068.5
5°	7000.2	9740.8	12736.1	16083.4	21614.2	29487.5	40266.8	57074.0	76825.0	94488.1	109044.0
2.5°	7374.2	10179.9	13102.5	16406.2	22462.0	30549.0	41686.6	59640.6	80708.7	98146.8	112045.7
0°	7600.7	10258.2	13164.0	16474.9	22526.4	31029.9	42794.5	60763.8	82093.9	99937.3	113607.3
-2.5°	7519.6	10082.8	12964.8	16273.3	22314.0	30579.2	41903.4	60194.7	80920.1	97614.2	111362.7
-5°	7115.3	9508.9	12185.1	15298.0	20904.5	28867.0	39377.2	56056.9	75537.9	92203.7	105141.1
-7.5°	6478.0	8707.0	11163.9	14045.8	18894.0	26089.2	35666.8	49861.1	67546.0	82923.5	94598.8
-10°	5765.1	7777.2	9906.0	12458.5	16248.2	22355.7	30353.6	41192.1	56359.4	70185.5	81224.7
-12.5°	4908.1	6582.2	8371.6	10572.9	13445.2	18424.3	25148.7	33940.8	44486.6	56790.0	66840.0
-15°	4017.5	5424.9	6906.0	8970.8	11420.5	14592.2	19425.7	26415.4	34243.3	42646.8	51765.3
-17.5°	3226.1	4417.7	5988.1	7727.3	9594.3	11801.4	15797.9	20561.4	26226.5	32220.5	37723.7
-20°	2591.5	3855.4	5266.2	6778.6	8494.1	10616.4	13071.5	16690.5	20891.7	25492.9	29901.4



REPORT NUMBER: P731414 (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°	2131.8	3265.2	4575.4	5993.9	7729.6	9640.1	11628.4	13899.7	16914.6	20452.1	23838.8
-25°	1623.7	2570.8	3841.7	5272.4	6871.3	8556.2	10170.1	12021.5	14225.6	16527.3	18898.8
-27.5°	1287.0	1955.6	2999.1	4342.7	5822.1	7141.3	8524.0	10065.7	11993.1	13995.6	15315.2
-30°	1050.5	1441.9	2225.2	3275.0	4511.4	5675.6	6810.9	8196.4	9709.5	11146.7	12313.2
-32.5°	981.3	1156.4	1561.8	2309.9	3238.6	4277.6	5296.9	6533.7	7708.0	8845.4	9848.3
-35°	932.5	1044.5	1197.4	1587.7	2147.0	2991.5	3922.7	4969.3	6029.2	6948.0	7798.6
-37.5°	887.0	984.2	1085.4	1186.1	1501.0	1887.5	2543.3	3371.1	4175.2	4918.6	5650.8
-40°	822.1	928.6	1010.3	1096.4	1190.1	1296.5	1639.7	1978.0	2371.6	2941.7	3441.2
-42.5°	753.2	842.0	935.1	1015.7	1094.0	1175.8	1262.3	1348.3	1528.2	1751.9	1935.2
-45°	724.5	777.9	841.9	926.0	1004.7	1078.2	1148.6	1216.6	1288.5	1354.2	1407.8
-47.5°	690.1	738.6	790.4	845.2	903.0	974.0	1043.6	1112.9	1175.8	1234.2	1280.9
-50°	658.3	696.4	742.7	789.3	835.5	883.1	931.1	984.6	1044.7	1103.9	1152.6
-52.5°	632.3	667.2	700.3	733.4	773.5	813.9	854.2	896.8	937.9	976.7	1007.0
-55°	569.1	618.3	666.8	698.0	725.1	752.5	783.1	821.2	857.6	892.1	912.4
-57.5°	483.1	540.1	592.5	629.3	667.1	705.3	736.9	764.2	791.7	818.0	832.3
-60°	387.5	434.3	481.7	525.7	567.7	607.3	644.1	679.9	713.1	741.0	757.9
-62.5°	292.8	331.7	370.2	407.0	442.3	476.8	516.0	553.8	589.7	619.1	637.1
-65°	203.9	235.7	265.6	294.2	321.6	350.9	381.4	411.1	439.5	462.1	476.9
-67.5°	138.6	158.3	176.1	193.1	214.0	236.5	258.9	279.7	298.7	313.4	323.8
-70°	92.1	102.6	112.0	123.0	136.6	150.4	164.2	177.1	188.8	197.5	204.1
-72.5°	56.7	64.0	70.7	78.1	85.1	92.3	99.8	107.2	114.3	119.4	123.3
-75°	27.3	30.6	36.6	42.1	47.0	51.6	55.8	59.4	62.6	64.6	65.9
-77.5°	18.6	20.1	21.6	23.1	24.6	26.5	28.4	30.2	31.9	33.2	34.4
-80°	13.4	14.2	14.9	15.5	16.0	16.8	17.6	18.5	19.3	19.7	19.9
-82.5°	9.3	9.9	10.5	11.1	11.7	12.3	12.8	13.3	13.8	14.2	14.6
-85°	6.3	6.6	6.9	7.3	7.6	8.1	8.5	8.9	9.2	9.3	9.4
-87.5°	4.4	4.5	4.6	4.6	4.7	5.0	5.3	5.6	5.9	5.9	5.9
-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: P731414 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-CV1

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.5
87.5°	1.2	1.2	0.6	0.0	0.6	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	1.2	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	1.5
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5
75°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.0	2.2	2.2
72.5°	3.5	3.5	3.0	2.4	3.0	3.5	3.5	3.4	3.4	3.4	3.7
70°	3.9	3.6	3.6	3.6	3.6	3.6	3.9	4.2	4.4	4.7	5.2
67.5°	5.4	5.8	5.9	5.9	5.9	5.8	5.4	5.1	4.9	5.1	5.7
65°	6.6	7.0	6.6	5.9	6.6	7.0	6.6	6.2	5.8	5.7	6.1
62.5°	5.0	4.9	4.8	4.8	4.8	4.9	5.0	5.1	5.1	5.5	5.9
60°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9	5.1
57.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
55°	5.4	5.7	5.9	5.9	5.9	5.7	5.4	5.0	4.8	5.0	5.0
52.5°	5.8	5.9	5.9	5.9	5.9	5.9	5.8	5.7	5.5	5.7	5.8
50°	7.4	7.2	7.1	7.1	7.1	7.2	7.4	7.4	7.4	7.3	7.1
47.5°	9.2	8.6	8.3	8.3	8.3	8.6	9.2	9.6	9.8	9.8	9.4
45°	14.4	14.3	14.2	14.3	14.2	14.3	14.4	14.3	14.7	14.2	12.7
42.5°	24.1	24.5	24.1	22.6	24.1	24.5	24.1	23.2	24.8	24.8	23.4
40°	39.8	38.3	36.2	35.6	36.2	38.3	39.8	39.8	41.4	41.9	41.0
37.5°	73.9	73.9	72.2	71.3	72.2	73.9	73.9	73.0	71.3	62.7	65.1
35°	155.5	154.3	145.8	137.8	145.8	154.3	155.5	160.9	152.9	120.5	138.2
32.5°	404.0	425.4	423.4	411.0	423.4	425.4	404.0	394.5	366.3	340.2	322.1
30°	859.4	897.7	889.6	838.7	889.6	897.7	859.4	827.0	742.9	693.4	629.2
27.5°	1776.2	1866.0	1945.2	1841.4	1945.2	1866.0	1776.2	1756.8	1390.9	1543.9	1162.5
25°	6075.8	6660.1	7005.7	6468.5	7005.7	6660.1	6075.8	5051.4	4028.2	3980.1	3286.4
22.5°	14500.5	15228.7	15617.2	15839.3	15617.2	15228.7	14500.5	12958.9	11034.6	9054.6	7621.6
20°	26598.8	28155.9	29153.2	27144.1	29153.2	28155.9	26598.8	23781.0	20870.1	16749.6	13781.1
17.5°	45063.0	50805.4	53828.7	55471.4	53828.7	50805.4	45063.0	38452.8	33687.8	27528.3	21527.9
15°	68412.8	75760.1	80721.6	82664.1	80721.6	75760.1	68412.8	59674.3	48351.2	38987.5	30064.1
12.5°	90490.2	98071.5	102649.3	103800.0	102649.3	98071.5	90490.2	78974.9	64431.8	50360.9	38539.7
10°	106193.3	113336.6	118602.6	120451.3	118602.6	113336.6	106193.3	95714.7	79107.5	62497.0	44979.7
7.5°	114935.2	123285.2	127926.5	129081.9	127926.5	123285.2	114935.2	104068.5	88772.1	70800.0	52291.5
5°	119966.3	127510.7	132584.2	133199.5	132584.2	127510.7	119966.3	109044.0	94488.1	76825.0	57074.0
2.5°	123210.3	130588.6	134857.2	136111.8	134857.2	130588.6	123210.3	112045.7	98146.8	80708.7	59640.6
0°	124006.3	130790.2	135947.2	137552.2	135947.2	130790.2	124006.3	113607.3	99937.3	82093.9	60763.8
-2.5°	121596.1	128140.5	131575.7	132132.7	131575.7	128140.5	121596.1	111362.7	97614.2	80920.1	60194.7
-5°	115441.2	120281.2	124246.9	124754.1	124246.9	120281.2	115441.2	105141.1	92203.7	75537.9	56056.9
-7.5°	102367.0	107796.4	109989.8	110583.4	109989.8	107796.4	102367.0	94598.8	82923.5	67546.0	49861.1
-10°	88456.3	93107.6	94661.4	95500.2	94661.4	93107.6	88456.3	81224.7	70185.5	56359.4	41192.1
-12.5°	74837.6	79385.9	80914.3	82128.4	80914.3	79385.9	74837.6	66840.0	56790.0	44486.6	33940.8
-15°	59579.0	64057.9	66527.1	67894.0	66527.1	64057.9	59579.0	51765.3	42646.8	34243.3	26415.4
-17.5°	44707.9	48961.5	51835.4	53507.6	51835.4	48961.5	44707.9	37723.7	32220.5	26226.5	20561.4
-20°	33899.2	36778.0	38989.7	40302.1	38989.7	36778.0	33899.2	29901.4	25492.9	20891.7	16690.5



REPORT NUMBER: P731414 (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°	26480.4	28474.2	29755.4	30594.0	29755.4	28474.2	26480.4	23838.8	20452.1	16914.6	13899.7
-25°	20696.0	22004.6	22833.1	23511.2	22833.1	22004.6	20696.0	18898.8	16527.3	14225.6	12021.5
-27.5°	16386.8	17088.4	17454.6	17952.7	17454.6	17088.4	16386.8	15315.2	13995.6	11993.1	10065.7
-30°	13173.4	13711.7	14002.8	14110.8	14002.8	13711.7	13173.4	12313.2	11146.7	9709.5	8196.4
-32.5°	10602.3	11110.9	11478.2	11650.5	11478.2	11110.9	10602.3	9848.3	8845.4	7708.0	6533.7
-35°	8458.7	8882.9	9172.4	9331.6	9172.4	8882.9	8458.7	7798.6	6948.0	6029.2	4969.3
-37.5°	6257.2	6722.7	7041.4	7150.4	7041.4	6722.7	6257.2	5650.8	4918.6	4175.2	3371.1
-40°	3839.0	4135.5	4326.9	4407.4	4326.9	4135.5	3839.0	3441.2	2941.7	2371.6	1978.0
-42.5°	2078.0	2186.9	2262.4	2305.9	2262.4	2186.9	2078.0	1935.2	1751.9	1528.2	1348.3
-45°	1442.5	1470.0	1487.5	1494.5	1487.5	1470.0	1442.5	1407.8	1354.2	1288.5	1216.6
-47.5°	1315.0	1344.8	1360.6	1361.4	1360.6	1344.8	1315.0	1280.9	1234.2	1175.8	1112.9
-50°	1191.1	1223.5	1239.9	1241.4	1239.9	1223.5	1191.1	1152.6	1103.9	1044.7	984.6
-52.5°	1034.5	1060.2	1071.4	1070.4	1071.4	1060.2	1034.5	1007.0	976.7	937.9	896.8
-55°	929.9	945.2	952.1	952.8	952.1	945.2	929.9	912.4	892.1	857.6	821.2
-57.5°	845.2	856.5	860.5	860.1	860.5	856.5	845.2	832.3	818.0	791.7	764.2
-60°	772.7	785.0	788.4	786.4	788.4	785.0	772.7	757.9	741.0	713.1	679.9
-62.5°	651.9	663.2	668.8	670.0	668.8	663.2	651.9	637.1	619.1	589.7	553.8
-65°	488.6	497.1	501.5	502.5	501.5	497.1	488.6	476.9	462.1	439.5	411.1
-67.5°	331.8	337.5	339.4	338.6	339.4	337.5	331.8	323.8	313.4	298.7	279.7
-70°	209.4	213.4	214.4	213.8	214.4	213.4	209.4	204.1	197.5	188.8	177.1
-72.5°	126.5	128.9	129.1	128.3	129.1	128.9	126.5	123.3	119.4	114.3	107.2
-75°	66.7	67.0	66.9	66.5	66.9	67.0	66.7	65.9	64.6	62.6	59.4
-77.5°	35.5	36.5	36.1	35.6	36.1	36.5	35.5	34.4	33.2	31.9	30.2
-80°	20.0	20.1	20.2	20.2	20.2	20.1	20.0	19.9	19.7	19.3	18.5
-82.5°	15.0	15.3	14.8	14.3	14.8	15.3	15.0	14.6	14.2	13.8	13.3
-85°	9.4	9.5	9.5	9.5	9.5	9.5	9.4	9.4	9.3	9.2	8.9
-87.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.6
-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°	4.2	3.9	3.6	3.3	3.0	2.7	2.4	2.4	2.4	2.4	2.4
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	1.4	1.6	1.7	1.7	1.7	1.6	1.5	1.3
80°	1.7	1.8	2.0	2.0	2.1	2.2	2.4	2.4	2.4	2.3	2.1
77.5°	1.9	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3
75°	2.2	2.3	2.5	2.6	2.7	2.5	2.4	2.4	2.4	2.4	2.3
72.5°	3.8	3.8	3.8	4.0	4.0	4.2	4.3	4.1	3.7	2.9	2.4
70°	5.6	6.1	6.8	7.5	7.8	7.8	7.6	7.2	6.7	6.2	5.0
67.5°	6.3	6.9	8.4	10.1	11.2	11.8	11.7	11.1	10.4	9.7	7.8
65°	6.5	7.0	8.9	11.0	13.0	14.8	16.3	16.3	15.6	13.9	10.7
62.5°	6.4	7.0	8.8	10.8	13.0	16.2	20.0	21.8	21.9	19.1	14.8
60°	5.5	6.2	7.8	9.7	11.7	16.3	22.2	26.6	29.5	25.2	19.1
57.5°	4.8	5.3	6.7	8.3	10.2	15.4	22.2	29.9	34.8	29.0	23.4
55°	4.8	5.3	6.1	7.2	8.7	13.4	19.7	27.2	32.5	30.3	24.2
52.5°	5.8	6.0	6.2	6.7	8.1	11.1	15.5	22.4	26.1	25.1	22.7
50°	7.0	7.0	7.0	7.0	7.8	9.2	12.3	17.1	18.9	19.8	18.7
47.5°	9.3	9.2	8.4	8.1	8.8	8.6	10.3	12.4	14.7	14.9	15.0
45°	13.9	14.0	12.3	12.4	12.6	12.2	10.5	12.2	13.3	13.7	12.1
42.5°	23.8	23.1	21.8	20.8	19.9	18.9	17.4	16.6	15.4	14.8	14.7
40°	38.6	36.4	35.5	33.1	30.4	28.1	29.5	25.9	22.6	18.7	20.8
37.5°	61.2	51.5	58.1	52.5	46.5	46.3	48.4	42.6	33.3	35.9	34.7
35°	115.4	103.8	109.0	98.3	76.6	88.9	80.4	68.1	61.0	65.8	57.5
32.5°	265.7	256.8	221.4	194.5	176.2	163.4	143.0	109.8	114.4	111.5	95.2
30°	598.5	565.0	443.0	417.4	397.6	291.4	233.6	216.3	199.0	169.9	143.2
27.5°	1419.6	1190.0	983.7	998.0	802.4	580.1	424.6	348.6	306.0	256.5	207.7
25°	3385.9	2860.1	2439.7	2192.3	1673.9	1138.0	795.0	570.4	441.1	363.9	299.6
22.5°	6668.4	5759.2	4813.0	3958.0	3076.6	2257.3	1512.0	860.4	590.2	486.1	407.6
20°	10885.9	9176.3	7704.8	6257.6	4893.0	3569.7	2474.0	1422.6	829.7	611.8	513.5
17.5°	16580.9	13044.5	10598.6	8575.4	6884.7	5260.3	3516.2	2041.6	1055.2	733.7	614.6
15°	22736.7	17182.4	13510.9	10995.2	8741.1	6399.6	4426.6	2629.1	1355.7	894.6	713.1
12.5°	28637.4	21437.7	16182.6	12764.0	9912.9	7368.4	5307.5	3376.6	1811.6	1039.9	773.6
10°	33288.7	24922.1	18467.8	14295.3	11084.4	8252.4	5991.1	3898.7	2103.4	1153.7	824.5
7.5°	37574.7	27564.8	20297.2	15438.8	12069.0	9069.2	6525.4	4263.6	2288.7	1250.1	866.5
5°	40266.8	29487.5	21614.2	16083.4	12736.1	9740.8	7000.2	4515.8	2379.3	1327.8	900.2
2.5°	41686.6	30549.0	22462.0	16406.2	13102.5	10179.9	7374.2	4690.5	2434.0	1360.0	912.9
0°	42794.5	31029.9	22526.4	16474.9	13164.0	10258.2	7600.7	4775.7	2449.6	1365.0	919.5
-2.5°	41903.4	30579.2	22314.0	16273.3	12964.8	10082.8	7519.6	4905.9	2522.9	1384.9	924.7
-5°	39377.2	28867.0	20904.5	15298.0	12185.1	9508.9	7115.3	4741.6	2497.4	1373.4	923.4
-7.5°	35666.8	26089.2	18894.0	14045.8	11163.9	8707.0	6478.0	4295.7	2336.8	1301.3	897.1
-10°	30353.6	22355.7	16248.2	12458.5	9906.0	7777.2	5765.1	3779.0	2111.1	1208.5	865.1
-12.5°	25148.7	18424.3	13445.2	10572.9	8371.6	6582.2	4908.1	3194.8	1820.5	1096.0	828.0
-15°	19425.7	14592.2	11420.5	8970.8	6906.0	5424.9	4017.5	2546.4	1469.8	969.8	786.2
-17.5°	15797.9	11801.4	9594.3	7727.3	5988.1	4417.7	3226.1	2094.4	1254.2	880.9	755.9
-20°	13071.5	10616.4	8494.1	6778.6	5266.2	3855.4	2591.5	1645.9	1092.7	844.6	734.4



REPORT NUMBER: P731414 (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°	11628.4	9640.1	7729.6	5993.9	4575.4	3265.2	2131.8	1303.6	920.3	806.8	708.9
-25°	10170.1	8556.2	6871.3	5272.4	3841.7	2570.8	1623.7	1123.3	880.7	771.5	678.8
-27.5°	8524.0	7141.3	5822.1	4342.7	2999.1	1955.6	1287.0	956.9	846.0	744.5	643.4
-30°	6810.9	5675.6	4511.4	3275.0	2225.2	1441.9	1050.5	914.0	811.9	713.5	611.1
-32.5°	5296.9	4277.6	3238.6	2309.9	1561.8	1156.4	981.3	869.3	775.5	674.0	593.0
-35°	3922.7	2991.5	2147.0	1587.7	1197.4	1044.5	932.5	832.4	728.0	635.9	576.2
-37.5°	2543.3	1887.5	1501.0	1186.1	1085.4	984.2	887.0	781.0	676.8	613.3	557.8
-40°	1639.7	1296.5	1190.1	1096.4	1010.3	928.6	822.1	718.2	653.6	588.9	537.6
-42.5°	1262.3	1175.8	1094.0	1015.7	935.1	842.0	753.2	692.4	630.5	570.2	524.9
-45°	1148.6	1078.2	1004.7	926.0	841.9	777.9	724.5	666.3	607.6	559.2	515.8
-47.5°	1043.6	974.0	903.0	845.2	790.4	738.6	690.1	639.6	593.5	547.2	481.0
-50°	931.1	883.1	835.5	789.3	742.7	696.4	658.3	623.2	569.7	505.2	438.5
-52.5°	854.2	813.9	773.5	733.4	700.3	667.2	632.3	578.9	520.1	451.6	382.9
-55°	783.1	752.5	725.1	698.0	666.8	618.3	569.1	513.9	451.8	386.2	323.8
-57.5°	736.9	705.3	667.1	629.3	592.5	540.1	483.1	428.1	376.2	318.1	262.1
-60°	644.1	607.3	567.7	525.7	481.7	434.3	387.5	341.3	296.0	249.1	202.5
-62.5°	516.0	476.8	442.3	407.0	370.2	331.7	292.8	255.7	218.1	180.0	149.2
-65°	381.4	350.9	321.6	294.2	265.6	235.7	203.9	177.1	153.0	127.8	102.6
-67.5°	258.9	236.5	214.0	193.1	176.1	158.3	138.6	117.9	102.5	89.7	76.0
-70°	164.2	150.4	136.6	123.0	112.0	102.6	92.1	81.3	70.6	60.5	49.9
-72.5°	99.8	92.3	85.1	78.1	70.7	64.0	56.7	48.8	40.7	32.3	26.2
-75°	55.8	51.6	47.0	42.1	36.6	30.6	27.3	25.2	22.9	20.5	17.9
-77.5°	28.4	26.5	24.6	23.1	21.6	20.1	18.6	16.8	15.5	14.2	13.1
-80°	17.6	16.8	16.0	15.5	14.9	14.2	13.4	12.5	11.6	10.7	10.0
-82.5°	12.8	12.3	11.7	11.1	10.5	9.9	9.3	8.8	8.3	7.9	7.5
-85°	8.5	8.1	7.6	7.3	6.9	6.6	6.3	6.0	5.7	5.4	5.0
-87.5°	5.3	5.0	4.7	4.6	4.6	4.5	4.4	4.1	3.8	3.5	3.2
-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°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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	1.2	1.2	1.2	1.2
80°	1.8	1.5	1.3	1.2	1.2	1.2	1.2	1.2	1.4	1.4	1.4
77.5°	2.0	1.7	1.4	1.3	1.5	1.5	1.5	1.4	1.5	1.7	1.7
75°	2.0	1.7	1.4	1.3	1.6	1.9	1.9	1.9	1.8	1.9	2.0
72.5°	2.3	2.0	1.6	1.4	1.6	1.9	2.2	2.3	2.1	2.1	2.2
70°	3.7	2.7	2.2	1.9	1.9	2.0	2.3	2.4	2.4	2.3	2.3
67.5°	6.0	4.5	3.4	2.5	2.2	2.2	2.3	2.4	2.4	2.4	2.3
65°	8.5	6.5	4.7	3.5	2.7	2.4	2.4	2.4	2.4	2.4	2.4
62.5°	11.3	8.5	6.4	4.5	3.2	2.6	2.4	2.4	2.4	2.4	2.4
60°	14.2	10.7	8.1	6.0	4.0	2.7	2.4	2.4	2.4	2.4	2.4
57.5°	17.4	12.5	9.7	7.3	5.1	3.2	2.4	2.4	2.4	2.4	2.4
55°	19.4	14.7	11.3	8.5	6.2	4.1	2.7	2.4	2.4	2.4	2.4
52.5°	18.5	15.9	13.2	9.8	7.0	5.0	3.7	2.4	2.4	2.4	2.4
50°	16.0	15.7	14.1	11.2	7.9	6.0	4.6	3.1	2.4	2.4	2.4
47.5°	14.5	15.0	14.3	12.3	9.0	7.1	5.6	3.9	2.4	2.4	2.4
45°	13.8	14.0	14.2	12.7	10.5	8.4	6.6	4.7	3.1	2.4	2.4
42.5°	14.2	14.3	13.6	13.2	11.7	9.6	7.7	5.6	3.7	2.5	2.4
40°	19.2	16.0	13.8	14.2	13.1	10.7	8.7	6.6	4.4	2.8	2.5
37.5°	26.4	21.2	16.3	17.7	15.3	12.2	9.6	7.6	5.1	3.4	2.7
35°	44.2	29.6	27.3	25.9	20.3	13.9	10.4	8.5	6.1	4.0	2.8
32.5°	67.3	51.9	49.2	39.4	27.1	15.7	11.7	9.4	6.9	4.5	3.0
30°	111.3	97.8	78.2	56.4	37.4	22.1	13.7	10.5	7.8	5.1	3.2
27.5°	183.1	152.8	116.2	83.3	53.7	30.3	16.7	11.7	8.6	5.6	3.6
25°	261.9	219.6	169.2	116.9	72.4	47.2	20.3	13.1	9.5	6.3	4.0
22.5°	349.0	292.0	228.1	154.7	103.6	68.8	29.1	15.8	10.5	6.9	4.4
20°	439.7	367.4	288.9	193.6	139.2	95.7	44.9	18.9	11.6	7.5	4.8
17.5°	533.2	434.0	334.2	236.5	173.5	123.8	63.0	22.1	12.7	8.0	5.1
15°	596.6	485.7	377.1	275.7	204.4	152.7	82.9	25.5	13.8	8.4	5.5
12.5°	647.5	534.9	417.4	311.3	232.3	182.0	103.9	28.8	14.9	9.2	6.0
10°	692.8	581.0	454.8	343.3	257.5	211.1	125.4	32.4	17.0	10.3	6.5
7.5°	733.0	623.6	488.9	371.8	278.0	231.8	139.1	36.0	19.1	11.4	7.0
5°	764.1	654.7	511.4	384.6	284.8	242.3	149.5	39.4	21.1	12.4	7.5
2.5°	773.3	669.2	525.1	392.3	290.3	250.6	157.4	42.4	23.1	13.4	7.9
0°	778.1	678.3	534.6	396.8	294.6	256.6	162.8	45.1	24.9	14.3	8.3
-2.5°	782.1	681.2	539.6	404.8	303.5	261.3	171.7	58.2	33.6	19.2	10.5
-5°	782.1	679.1	540.4	409.7	311.0	264.1	178.2	70.6	42.0	23.9	12.7
-7.5°	766.2	664.2	533.2	411.4	317.0	265.3	182.7	82.1	49.8	28.2	14.6
-10°	743.7	640.0	517.4	408.9	324.5	269.1	185.9	92.5	56.8	32.1	16.5
-12.5°	717.6	612.3	500.9	405.2	331.8	275.4	190.9	101.7	62.8	35.4	18.1
-15°	688.1	581.5	484.6	400.9	338.6	280.6	193.4	109.3	67.4	38.1	19.4
-17.5°	658.5	548.1	469.6	396.6	345.1	285.0	193.5	114.9	70.8	40.1	20.7
-20°	634.3	527.3	457.2	392.7	351.3	288.6	191.0	118.3	73.0	41.4	21.8



REPORT NUMBER: P731414 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-CV1

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	606.7	518.7	452.7	395.8	355.4	291.7	186.1	119.3	73.8	41.9	22.5
-25°	577.0	509.5	447.9	399.0	355.9	283.9	182.9	117.9	73.1	41.4	22.8
-27.5°	559.8	500.5	442.0	399.8	349.4	273.2	180.7	116.8	71.5	40.0	22.7
-30°	548.1	492.3	439.6	396.1	340.3	253.7	175.1	113.8	69.8	39.1	22.1
-32.5°	536.3	483.2	435.7	384.2	320.3	233.2	164.0	108.7	66.8	38.4	21.6
-35°	522.7	474.2	428.0	369.2	295.5	217.3	151.1	101.4	62.4	36.9	20.9
-37.5°	507.1	464.8	408.8	347.1	270.2	198.8	139.1	92.4	56.7	34.9	19.8
-40°	497.0	449.3	387.9	318.8	246.3	177.8	124.8	83.3	52.6	32.1	18.2
-42.5°	485.3	423.5	358.1	289.7	220.6	159.7	109.0	72.9	48.0	29.5	16.3
-45°	453.9	391.2	323.0	257.1	193.1	139.1	95.9	62.1	42.7	26.8	14.5
-47.5°	416.6	349.5	284.6	221.8	167.3	117.8	81.3	55.5	37.0	23.6	13.2
-50°	367.9	304.7	243.5	188.8	138.6	99.7	67.3	48.3	32.2	19.5	11.6
-52.5°	317.5	257.2	204.0	155.4	114.9	79.9	58.5	40.6	26.8	16.5	9.8
-55°	263.9	212.1	165.4	125.7	91.0	67.0	48.9	33.8	21.0	14.0	8.0
-57.5°	212.8	167.9	131.1	97.4	73.2	55.4	39.8	26.4	17.3	11.3	7.6
-60°	161.8	129.5	98.0	76.6	59.1	43.8	30.5	19.9	14.2	9.0	7.1
-62.5°	119.4	93.7	76.6	59.7	45.3	32.5	21.7	16.2	10.9	8.3	6.5
-65°	86.9	71.6	56.9	44.0	31.9	22.5	17.4	12.4	9.5	7.6	5.9
-67.5°	62.3	50.4	39.4	28.4	22.1	17.3	12.8	10.3	8.5	6.8	5.4
-70°	39.6	30.0	24.8	20.5	16.2	12.5	10.8	9.1	7.4	6.1	4.8
-72.5°	23.5	20.5	17.3	13.9	12.4	10.9	9.3	7.9	6.6	5.4	4.2
-75°	15.4	14.1	13.1	12.0	10.6	9.2	8.0	7.0	5.8	4.7	3.7
-77.5°	12.3	11.5	10.8	9.9	8.6	7.6	6.7	6.0	5.0	4.1	3.4
-80°	9.5	8.8	8.1	7.2	6.5	5.9	5.5	5.1	4.3	3.6	3.0
-82.5°	6.9	6.3	5.7	5.3	5.0	4.7	4.5	4.2	3.6	3.0	2.7
-85°	4.7	4.4	4.2	3.9	3.8	3.6	3.5	3.4	3.1	2.8	2.6
-87.5°	3.2	3.2	3.1	3.1	3.0	3.0	3.0	2.9	2.7	2.6	2.5
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



REPORT NUMBER: P731414 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	1.2	1.3	1.3	1.3	1.3	1.8	2.4
85°	1.2	1.3	1.4	1.4	1.4	1.9	2.4
82.5°	1.2	1.4	1.5	1.6	1.5	1.9	2.4
80°	1.3	1.5	1.6	1.7	1.6	1.9	2.4
77.5°	1.6	1.6	1.7	1.8	1.7	1.9	2.4
75°	1.9	1.8	1.9	1.9	1.8	2.0	2.4
72.5°	2.2	2.0	2.0	2.0	1.9	2.0	2.4
70°	2.4	2.2	2.1	2.2	2.0	2.0	2.4
67.5°	2.4	2.3	2.2	2.2	2.1	2.1	2.4
65°	2.4	2.4	2.2	2.2	2.2	2.1	2.4
62.5°	2.4	2.4	2.3	2.3	2.3	2.1	2.4
60°	2.4	2.4	2.4	2.3	2.4	2.1	2.4
57.5°	2.4	2.4	2.4	2.3	2.4	2.2	2.4
55°	2.4	2.4	2.4	2.4	2.4	2.2	2.4
52.5°	2.4	2.4	2.4	2.4	2.4	2.2	2.4
50°	2.4	2.4	2.4	2.4	2.4	2.2	2.4
47.5°	2.4	2.4	2.4	2.4	2.4	2.3	2.4
45°	2.4	2.4	2.4	2.4	2.4	2.3	2.4
42.5°	2.4	2.4	2.4	2.4	2.4	2.3	2.4
40°	2.4	2.4	2.4	2.4	2.4	2.3	2.4
37.5°	2.4	2.4	2.4	2.4	2.4	2.3	2.4
35°	2.4	2.4	2.4	2.4	2.4	2.3	2.4
32.5°	2.4	2.4	2.4	2.4	2.4	2.3	2.4
30°	2.6	2.4	2.4	2.4	2.4	2.4	2.4
27.5°	2.7	2.4	2.4	2.4	2.4	2.4	2.4
25°	2.8	2.4	2.4	2.4	2.4	2.4	2.4
22.5°	3.0	2.4	2.4	2.4	2.4	2.4	2.4
20°	3.1	2.5	2.4	2.4	2.4	2.4	2.4
17.5°	3.4	2.6	2.4	2.4	2.4	2.4	2.4
15°	3.6	2.7	2.4	2.4	2.4	2.4	2.4
12.5°	3.8	2.9	2.4	2.4	2.4	2.4	2.4
10°	4.0	3.0	2.4	2.4	2.4	2.4	2.4
7.5°	4.3	3.2	2.4	2.4	2.4	2.4	2.4
5°	4.5	3.3	2.4	2.4	2.4	2.4	2.4
2.5°	4.6	3.5	2.4	2.4	2.4	2.4	2.4
0°	4.8	3.6	2.4	2.4	2.4	2.4	2.4
-2.5°	5.9	4.0	2.5	2.4	2.4	2.4	2.4
-5°	7.0	4.3	2.6	2.4	2.4	2.4	2.4
-7.5°	8.0	4.7	2.7	2.4	2.4	2.4	2.4
-10°	8.9	5.0	2.8	2.4	2.4	2.4	2.4
-12.5°	9.7	5.2	2.9	2.4	2.4	2.4	2.4
-15°	10.3	5.4	2.9	2.4	2.4	2.4	2.4
-17.5°	10.9	5.6	3.0	2.4	2.4	2.4	2.4
-20°	11.3	5.7	3.0	2.4	2.4	2.4	2.4



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 CATALOG NUMBER: EPH-LS-08-0320N-57-70-4S-CV1

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	11.7	5.7	3.0	2.4	2.4	2.4	2.4
-25°	11.9	5.7	3.0	2.4	2.4	2.4	2.4
-27.5°	11.8	5.7	3.0	2.4	2.4	2.4	2.4
-30°	11.5	5.6	3.0	2.4	2.4	2.4	2.4
-32.5°	10.9	5.4	3.0	2.4	2.4	2.4	2.4
-35°	10.5	5.1	3.0	2.4	2.4	2.4	2.4
-37.5°	10.1	4.8	3.0	2.4	2.4	2.4	2.4
-40°	9.5	4.8	3.0	2.4	2.4	2.4	2.4
-42.5°	8.7	4.7	3.0	2.4	2.4	2.4	2.4
-45°	7.8	4.6	3.1	2.4	2.4	2.4	2.4
-47.5°	6.7	4.5	3.1	2.5	2.4	2.4	2.4
-50°	6.4	4.4	3.1	2.5	2.4	2.4	2.4
-52.5°	6.1	4.2	3.0	2.5	2.4	2.4	2.4
-55°	5.8	4.1	3.0	2.5	2.4	2.4	2.4
-57.5°	5.5	3.9	2.9	2.5	2.4	2.4	2.4
-60°	5.2	3.8	2.8	2.5	2.4	2.4	2.4
-62.5°	4.8	3.5	2.8	2.5	2.4	2.4	2.4
-65°	4.5	3.3	2.7	2.5	2.4	2.4	2.4
-67.5°	4.0	3.1	2.7	2.4	2.4	2.4	2.4
-70°	3.6	3.0	2.6	2.4	2.4	2.4	2.4
-72.5°	3.3	2.8	2.5	2.4	2.4	2.4	2.4
-75°	3.0	2.6	2.4	2.4	2.4	2.4	2.4
-77.5°	2.7	2.5	2.4	2.4	2.4	2.4	2.4
-80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
-82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
-85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
-87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
-90°	1.2	1.2	1.2	1.2	1.2	1.8	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

