

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: P731435 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-3S-CV2**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731435 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-57-80-3S-CV2  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 3S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

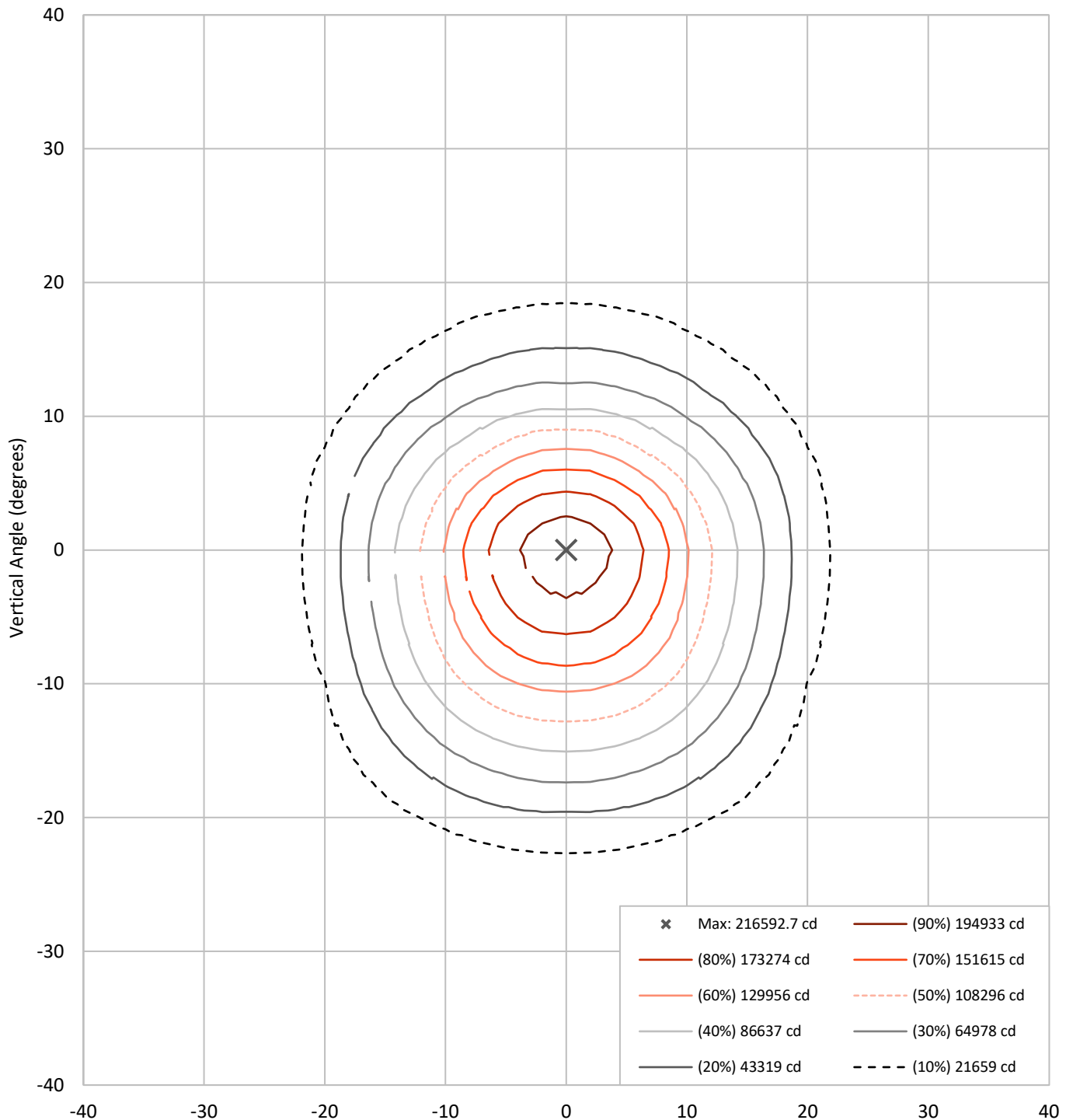
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	42752.8 lumens	Max Intensity:	216592.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	123.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	24.2°H x 21.8°V	Field Angle (10%):	43.8°H x 40.9°V
Beam Lumens:	19371.9 lumens	Field Lumens:	36659.7 lumens
Beam Efficiency:	45.3%	Field Efficiency:	85.7%

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-57-80-3S-CV2

### Iso-Candela Plot





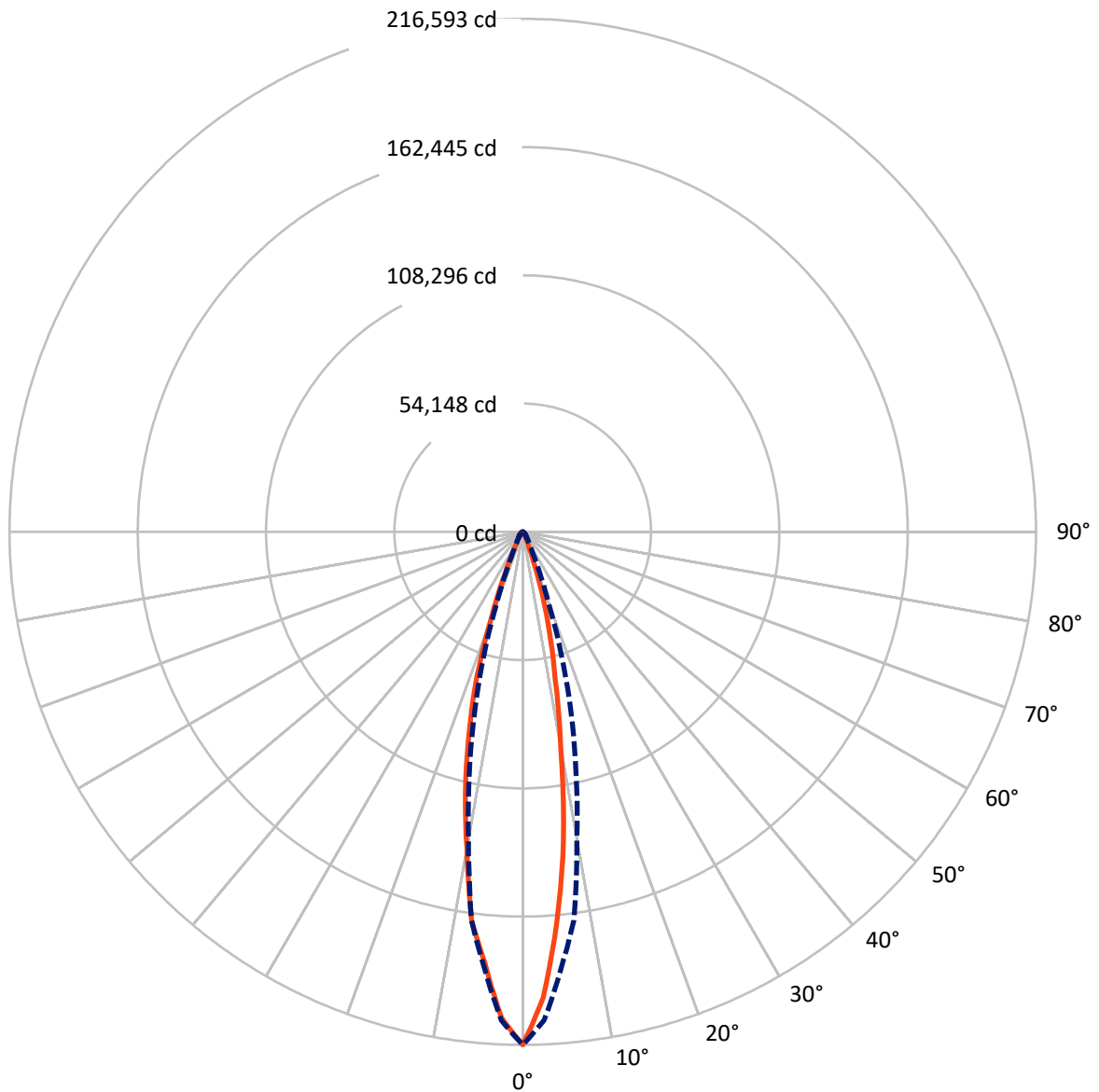
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### Lumen Table

90	0.1		0.3		0.4		0.4		0.3		0.4		0.4		0.3		0.1	
80	0.1		0.3		0.4		0.4		0.3		0.4		0.4		0.3		0.1	
70	0.1	0.1	0.1	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.1	0.1	0.1	0.1	0.1
60		0.1	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.1			
50	0.1	0.1	0.3	0.3	0.4	0.5	0.7	0.8	0.8	0.7	0.5	0.4	0.3	0.3	0.1	0.1	0.1	0.1
40		0.1	0.5	1.2	2.3	3.6	4.5	5.5	5.5	4.5	3.6	2.3	1.2	0.5	0.1			
30	0.2	0.3	1.8	5.7	14.9	25.6	58.8	122.8	122.8	58.8	25.6	14.9	5.7	1.8	0.3	0.2	0.2	0.2
20		0.6	4.2	15.1	37.4	102.6	539.5	1266.7	1266.7	539.5	102.6	37.4	15.1	4.2	0.6			
10	0.2	1.1	7.4	28.4	68.6	309.0	1862.3	4260.1	4260.1	1862.3	309.0	68.6	28.4	7.4	1.1	0.2	0.2	0.2
0		1.9	9.8	34.3	78.7	333.5	2149.1	4842.9	4842.9	2149.1	333.5	78.7	34.3	9.8	1.9			
-10	0.4	2.2	10.0	32.6	72.2	194.4	1098.9	2405.9	2405.9	1098.9	194.4	72.2	32.6	10.0	2.2	0.4	0.4	0.4
-20		2.1	8.3	21.3	49.7	87.7	201.5	410.5	410.5	201.5	87.7	49.7	21.3	8.3	2.1			
-30	0.3	1.8	6.0	13.1	28.9	51.6	71.4	86.3	86.3	71.4	51.6	28.9	13.1	6.0	1.8	0.3	0.3	0.3
-40		1.2	4.2	9.2	16.6	28.5	46.2	60.2	60.2	46.2	28.5	16.6	9.2	4.2	1.2			
-50	0.2	0.6	2.6	6.0	10.8	16.3	21.2	24.4	24.4	21.2	16.3	10.8	6.0	2.6	0.6	0.2	0.2	0.2
-60		0.2	1.0	3.1	6.1	9.7	13.5	15.7	15.7	13.5	9.7	6.1	3.1	1.0	0.2			
-70	0.1	0.6	2.1	5.9	8.5	5.9	2.1	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
-80		0.1	0.6	2.1	5.9	8.5	5.9	2.1	0.6									
-90	0.1		0.6		2.1		5.9		8.5		5.9		2.1		0.6		0.1	

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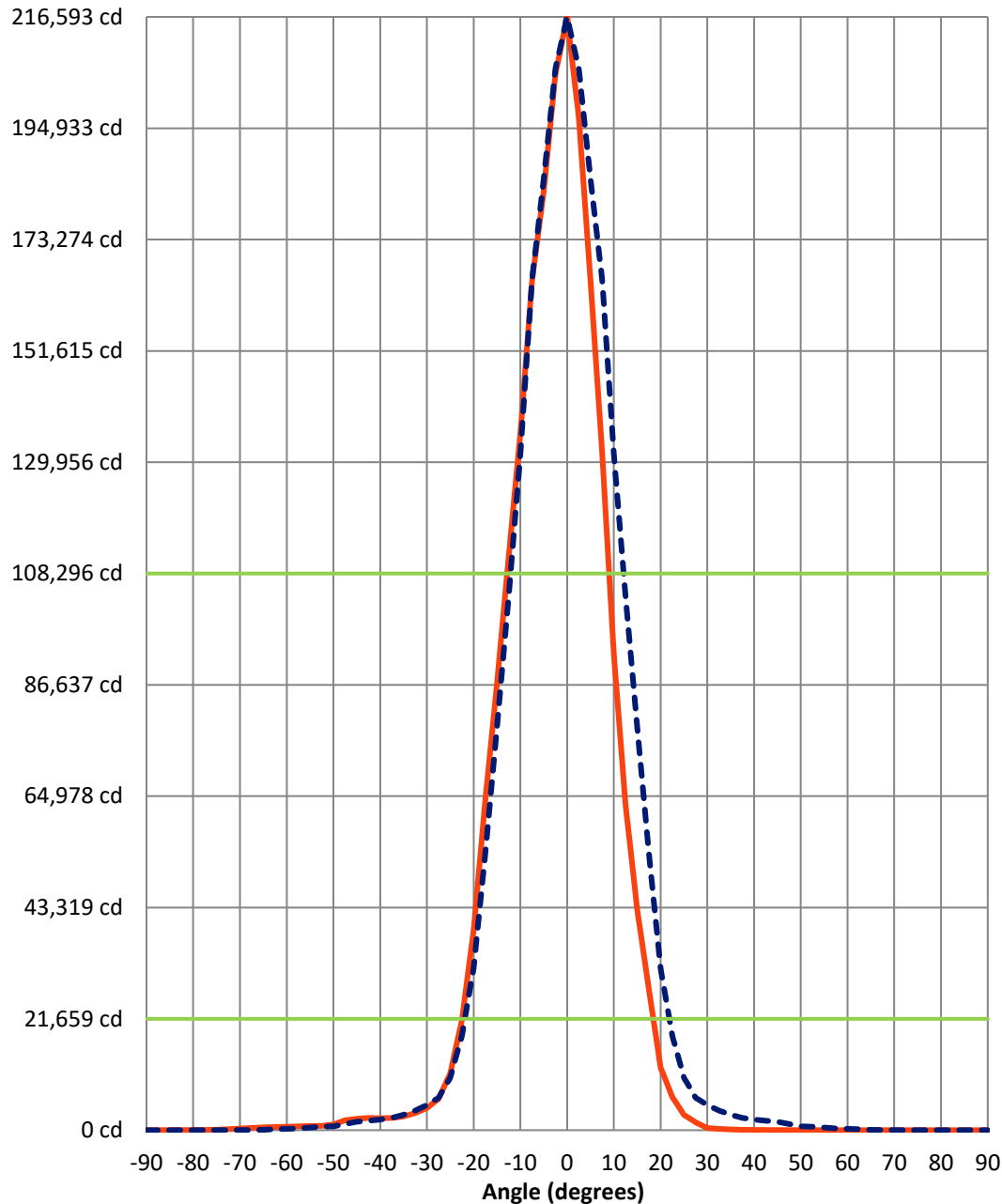
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 24.2°  
 V Angle: 21.8°  
 Lumens: 19371.9  
 Efficiency: 45.3%

**Field:**  
 H Angle: 43.8°  
 V Angle: 40.9°  
 Lumens: 36659.7  
 Efficiency: 85.7%

**Spill:**  
 Lumens: 6093.1  
 Efficiency: 14.3%

— 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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.9	6.2	6.4	6.7
87.5°	5.6	5.6	5.7	5.7	5.7	5.7	5.6	5.6	5.6	5.6	5.6
85°	5.6	5.6	5.8	5.8	5.8	5.7	5.6	5.6	5.6	5.6	5.6
82.5°	5.6	5.7	5.9	5.9	5.9	5.8	5.6	5.6	5.6	5.6	5.6
80°	5.6	5.7	6.0	6.0	6.0	5.9	5.7	5.8	5.8	5.8	5.6
77.5°	5.6	5.7	6.1	6.1	6.1	6.0	5.9	6.0	6.0	5.9	5.7
75°	5.6	5.7	6.1	6.3	6.2	6.1	6.2	6.3	6.2	6.0	5.7
72.5°	5.6	5.8	6.2	6.4	6.3	6.3	6.5	6.5	6.2	6.0	5.7
70°	5.6	5.8	6.3	6.5	6.4	6.5	6.7	6.5	6.3	6.0	5.7
67.5°	5.6	5.8	6.4	6.5	6.5	6.6	6.7	6.6	6.3	6.0	5.8
65°	5.6	5.8	6.4	6.6	6.6	6.7	6.7	6.6	6.3	6.1	5.9
62.5°	5.6	5.8	6.5	6.6	6.6	6.7	6.7	6.6	6.4	6.2	6.3
60°	5.6	5.8	6.6	6.6	6.7	6.7	6.7	6.7	6.4	6.4	6.6
57.5°	5.6	5.8	6.5	6.6	6.7	6.7	6.7	6.7	6.5	6.6	6.7
55°	5.6	5.9	6.5	6.7	6.7	6.7	6.7	6.7	6.6	6.7	6.7
52.5°	5.6	5.9	6.5	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
50°	5.6	5.9	6.5	6.7	6.7	6.7	6.7	6.8	6.7	6.7	7.2
47.5°	5.6	5.9	6.5	6.7	6.7	6.7	6.7	6.8	6.7	6.7	7.7
45°	5.6	5.9	6.5	6.7	6.7	6.7	6.8	6.9	6.8	7.0	8.1
42.5°	5.6	5.9	6.5	6.7	6.7	6.7	6.9	7.0	6.8	7.3	8.5
40°	5.6	5.9	6.5	6.7	6.7	6.7	7.0	7.1	7.0	7.6	8.8
37.5°	5.6	5.9	6.5	6.7	6.7	6.7	7.2	7.2	7.3	8.0	9.0
35°	5.6	5.9	6.5	6.7	6.7	6.8	7.3	7.2	7.6	8.4	9.0
32.5°	5.6	5.8	6.5	6.7	6.7	6.9	7.4	7.3	7.9	9.0	9.8
30°	5.6	5.8	6.6	6.7	6.7	7.0	7.5	7.4	8.2	9.5	10.8
27.5°	5.6	5.8	6.6	6.7	6.7	7.1	7.6	7.6	8.6	10.2	12.0
25°	5.6	5.8	6.6	6.7	6.7	7.3	7.6	7.9	9.1	11.1	13.6
22.5°	5.6	5.8	6.6	6.7	6.7	7.4	7.7	8.1	9.6	12.2	16.5
20°	5.6	5.8	6.6	6.7	6.7	7.5	7.8	8.3	10.1	13.4	19.4
17.5°	5.6	5.8	6.6	6.7	6.7	7.5	7.9	8.5	10.7	14.7	22.2
15°	5.6	5.7	6.6	6.7	6.7	7.6	8.0	8.7	11.2	16.0	24.8
12.5°	5.6	5.7	6.7	6.7	6.7	7.7	8.1	9.0	12.2	17.4	27.3
10°	5.6	5.7	6.7	6.7	6.7	7.7	8.3	9.2	13.5	20.1	31.7
7.5°	5.6	5.7	6.7	6.7	6.7	7.8	8.4	9.4	14.9	22.9	40.6
5°	5.6	5.6	6.7	6.7	6.7	7.8	8.6	9.6	16.3	25.8	49.8
2.5°	5.6	5.6	6.7	6.7	6.7	7.8	8.7	9.8	17.7	28.6	59.1
0°	5.6	5.6	6.7	6.7	6.7	7.8	8.9	10.0	19.0	31.2	68.0
-2.5°	5.6	5.6	6.7	6.7	6.7	7.8	9.8	13.3	25.2	41.5	82.7
-5°	5.6	5.6	6.7	6.7	6.7	7.8	10.6	16.5	31.1	51.3	96.3
-7.5°	5.6	5.6	6.7	6.7	6.7	7.8	11.4	19.5	36.6	60.5	108.8
-10°	5.6	5.6	6.7	6.7	6.7	7.7	12.0	22.2	41.6	68.9	119.8
-12.5°	5.6	5.6	6.6	6.7	6.7	7.7	12.5	24.4	45.9	76.2	127.4
-15°	5.6	5.6	6.6	6.7	6.7	7.6	12.9	26.2	49.8	82.1	132.8
-17.5°	5.6	5.6	6.6	6.7	6.7	7.5	13.0	27.8	53.3	87.1	136.6
-20°	5.6	5.6	6.6	6.7	6.7	7.5	13.2	29.2	55.9	91.0	138.8



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 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-CV2

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.6	5.6	6.5	6.7	6.7	7.4	13.6	30.0	57.4	93.8	139.3
-25°	5.6	5.6	6.5	6.7	6.7	7.5	13.6	30.0	57.9	95.6	138.1
-27.5°	5.6	5.6	6.5	6.7	6.7	7.7	13.2	29.2	57.1	96.1	139.4
-30°	5.6	5.6	6.4	6.7	6.7	7.7	12.5	27.6	55.9	95.1	139.3
-32.5°	5.6	5.6	6.4	6.7	6.8	7.7	11.2	26.4	54.0	92.5	137.7
-35°	5.6	5.6	6.3	6.7	6.9	7.6	10.8	25.0	50.9	88.2	134.6
-37.5°	5.6	5.6	6.2	6.7	7.0	7.6	10.7	22.9	46.6	82.3	124.6
-40°	5.6	5.6	6.2	6.7	7.0	7.7	10.4	20.1	41.1	75.9	113.2
-42.5°	5.6	5.6	6.1	6.7	7.1	7.7	10.1	16.7	36.3	66.9	101.0
-45°	5.6	5.6	6.1	6.7	7.1	7.8	9.5	14.1	31.6	56.7	88.2
-47.5°	5.6	5.6	6.0	6.8	7.1	7.8	8.9	13.2	25.9	46.0	76.0
-50°	5.6	5.6	5.9	6.7	7.2	7.8	8.8	12.2	19.3	38.3	62.9
-52.5°	5.6	5.6	5.8	6.6	7.2	7.8	8.7	11.0	16.1	30.1	49.5
-55°	5.6	5.6	5.8	6.5	7.2	7.8	8.7	9.8	14.3	21.3	39.5
-57.5°	5.6	5.6	5.7	6.4	7.1	7.7	8.6	9.7	12.4	17.5	28.8
-60°	5.6	5.6	5.6	6.3	7.1	7.7	8.5	9.5	10.7	15.0	20.3
-62.5°	5.6	5.6	5.6	6.2	7.0	7.6	8.3	9.2	10.3	12.4	17.1
-65°	5.6	5.6	5.6	6.1	6.8	7.5	8.1	8.9	9.9	11.2	13.8
-67.5°	5.6	5.6	5.6	6.0	6.6	7.3	7.9	8.6	9.3	10.5	12.0
-70°	5.6	5.6	5.6	5.9	6.5	7.1	7.7	8.3	8.8	9.6	10.9
-72.5°	5.6	5.6	5.6	5.8	6.3	6.9	7.5	7.9	8.4	9.0	9.7
-75°	5.6	5.6	5.6	5.8	6.1	6.7	7.2	7.6	7.8	8.3	8.9
-77.5°	5.6	5.6	5.6	5.8	6.1	6.5	7.0	7.2	7.5	7.7	8.0
-80°	5.6	5.6	5.6	5.7	6.0	6.3	6.7	6.9	7.1	7.3	7.5
-82.5°	5.6	5.6	5.6	5.7	5.9	6.1	6.4	6.6	6.7	6.9	7.0
-85°	5.6	5.6	5.6	5.7	5.8	6.0	6.2	6.4	6.5	6.6	6.7
-87.5°	5.6	5.6	5.6	5.6	5.7	5.8	5.9	6.1	6.3	6.5	6.7
-90°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6





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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°	6.4	6.2	5.9	5.6	5.6	5.6	5.6	5.6	5.3	5.1	4.8
87.5°	5.3	5.1	4.8	4.5	4.5	4.5	4.5	4.5	4.2	3.9	3.6
85°	5.3	5.1	4.8	4.7	4.7	4.7	4.6	4.5	4.2	3.9	3.6
82.5°	5.4	5.3	5.3	5.3	5.2	5.0	4.8	4.5	4.2	3.9	3.6
80°	5.6	5.6	5.6	5.6	5.4	5.1	4.8	4.5	4.3	4.0	3.7
77.5°	5.6	5.6	5.6	5.6	5.4	5.1	4.9	4.6	4.3	4.0	3.7
75°	5.6	5.6	5.6	5.6	5.4	5.2	4.9	4.8	4.8	4.7	4.6
72.5°	5.6	5.6	5.6	5.6	5.5	5.4	5.4	5.5	5.7	5.8	5.7
70°	5.6	5.6	5.7	5.7	5.6	5.7	6.2	6.8	7.3	7.9	9.3
67.5°	5.7	5.9	6.0	5.9	6.0	6.6	7.3	10.3	13.9	15.6	16.5
65°	6.1	6.3	6.3	6.4	6.7	8.8	12.1	16.4	21.1	22.2	22.0
62.5°	6.6	6.5	6.6	7.2	9.0	12.0	16.4	21.4	26.6	25.6	22.1
60°	6.7	6.7	7.4	9.1	11.4	15.4	20.5	23.0	24.7	24.6	20.2
57.5°	6.7	7.3	8.8	11.1	14.5	17.8	19.0	20.4	21.6	22.3	17.5
55°	7.0	8.2	10.2	13.4	16.0	15.6	16.2	17.1	18.0	16.9	12.6
52.5°	7.7	9.1	11.9	14.6	15.2	14.0	13.2	13.9	13.3	11.5	9.5
50°	8.4	10.3	13.1	14.8	14.5	12.6	10.9	11.1	10.6	9.3	8.1
47.5°	9.1	11.3	14.0	15.2	13.6	12.4	10.9	10.5	10.0	10.3	9.7
45°	9.8	12.1	15.0	14.7	13.7	13.2	12.6	11.1	12.8	13.4	13.2
42.5°	10.3	12.7	14.9	14.4	15.2	15.6	15.4	16.0	17.0	18.5	19.2
40°	10.6	13.0	15.5	17.1	17.5	19.1	21.2	22.8	23.4	25.6	27.2
37.5°	10.8	14.3	17.8	22.0	21.5	24.6	28.1	34.1	35.9	33.8	38.0
35°	10.7	16.1	23.9	29.7	30.6	31.9	41.0	50.1	55.7	50.2	55.3
32.5°	11.9	18.7	31.6	39.9	45.9	47.4	56.4	75.2	84.8	86.2	86.7
30°	14.7	25.8	41.2	52.1	65.7	76.6	85.3	106.8	122.3	160.7	191.6
27.5°	18.3	34.5	52.7	70.3	90.7	111.0	131.4	148.5	198.5	270.5	350.8
25°	21.9	47.1	65.5	92.7	123.7	153.3	180.8	204.1	301.7	449.3	548.0
22.5°	28.7	62.0	84.0	117.7	160.1	199.1	233.0	294.6	431.0	649.5	755.8
20°	39.9	77.8	106.7	147.7	200.9	246.3	286.1	389.1	588.2	793.1	924.9
17.5°	52.1	94.3	131.4	185.6	253.5	303.8	344.6	481.0	740.6	936.3	1070.6
15°	65.1	111.2	155.8	226.7	311.1	373.5	456.3	623.9	875.1	1077.0	1241.7
12.5°	78.3	128.4	179.7	270.1	372.4	444.0	592.5	835.6	1059.8	1235.8	1482.2
10°	91.6	145.5	202.7	314.6	435.8	514.4	742.3	1044.8	1261.5	1442.5	1725.9
7.5°	117.4	169.5	227.6	358.8	499.7	584.2	899.3	1248.5	1450.4	1634.7	1933.3
5°	145.3	200.5	266.2	413.8	563.0	647.1	1045.3	1442.6	1627.6	1813.1	2109.1
2.5°	172.3	230.3	303.5	467.3	622.5	698.3	1132.5	1550.4	1742.5	1951.7	2258.7
0°	197.4	258.7	339.0	516.3	676.9	746.0	1203.2	1641.5	1838.9	2067.5	2389.7
-2.5°	217.6	286.5	372.3	544.1	695.8	773.2	1217.7	1675.0	1888.7	2133.5	2452.6
-5°	234.5	312.4	403.0	567.2	710.4	797.2	1214.8	1686.9	1930.5	2183.6	2509.9
-7.5°	247.7	335.8	430.8	583.8	718.0	808.6	1211.2	1702.8	1976.3	2217.8	2556.3
-10°	255.0	345.5	436.7	581.5	716.1	811.1	1184.7	1693.3	2013.7	2242.6	2570.9
-12.5°	247.4	342.4	435.2	574.1	711.1	810.6	1127.2	1656.5	2043.6	2259.5	2543.4
-15°	238.4	337.3	429.2	561.7	703.3	807.1	1035.5	1591.4	2028.6	2197.7	2462.8
-17.5°	228.6	330.3	418.4	544.2	693.1	800.8	901.0	1426.1	1875.3	2092.0	2375.6
-20°	218.5	321.4	402.5	521.6	678.6	770.0	837.8	1217.3	1656.2	1961.7	2223.1



REPORT NUMBER: P731435 (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°	208.5	310.5	385.5	500.6	626.2	719.1	791.0	1004.1	1429.3	1800.4	1995.4
-25°	203.2	294.6	371.2	462.2	570.4	666.9	736.9	812.6	1192.2	1548.8	1794.2
-27.5°	200.7	280.3	350.2	423.9	517.4	611.6	678.3	749.8	958.4	1295.3	1589.6
-30°	196.1	260.7	328.2	389.3	472.4	553.9	619.5	693.2	777.1	1049.2	1321.0
-32.5°	185.1	240.9	305.2	364.0	430.3	501.6	574.2	646.3	718.2	817.2	1066.3
-35°	172.2	224.3	282.2	338.0	390.8	459.2	531.7	602.7	663.7	726.9	864.8
-37.5°	161.9	206.3	259.5	312.3	362.1	420.6	487.4	556.4	618.7	675.8	754.3
-40°	150.5	187.1	238.0	288.0	334.8	385.1	444.7	506.9	571.2	638.0	699.4
-42.5°	137.9	173.3	215.7	264.0	307.9	354.2	401.9	459.5	522.7	593.2	656.9
-45°	123.6	158.6	193.4	237.8	280.0	322.6	367.2	412.8	474.9	538.2	604.9
-47.5°	108.5	142.7	176.1	211.6	251.8	290.6	331.5	378.0	426.8	484.7	543.6
-50°	93.0	125.3	157.8	189.9	224.3	259.5	295.5	342.6	388.9	434.3	484.8
-52.5°	77.4	107.2	138.2	169.1	199.6	231.3	265.7	307.2	350.9	393.4	435.4
-55°	60.9	88.6	117.6	146.9	176.1	204.9	238.3	275.1	313.0	353.5	392.5
-57.5°	46.9	69.0	95.8	123.7	151.3	179.4	212.2	243.9	278.3	314.1	349.1
-60°	34.1	51.2	72.6	98.5	125.4	153.0	185.4	216.8	246.2	274.8	307.7
-62.5°	22.5	35.8	52.0	71.4	95.9	123.6	152.6	183.6	216.9	243.0	268.7
-65°	18.5	22.8	33.8	49.0	65.2	88.7	115.2	143.9	172.7	198.7	226.2
-67.5°	14.3	18.4	22.2	28.0	41.9	57.5	74.2	97.9	123.0	144.8	167.0
-70°	12.5	14.3	17.6	20.9	24.2	30.6	44.4	58.9	73.3	87.3	105.4
-72.5°	11.0	12.6	14.3	16.2	19.0	22.0	25.2	28.5	36.7	47.4	57.5
-75°	9.8	10.9	12.3	13.9	15.3	16.8	18.5	21.1	23.8	26.3	28.6
-77.5°	8.7	9.6	10.6	11.7	12.6	13.8	14.9	16.2	17.4	18.8	20.2
-80°	7.8	8.3	9.0	9.8	10.3	10.9	11.6	12.4	13.1	13.8	14.6
-82.5°	7.2	7.5	7.9	8.3	8.3	8.3	8.2	8.5	9.0	9.5	9.9
-85°	6.7	6.7	6.8	7.0	7.1	7.2	7.2	7.2	7.1	7.0	7.0
-87.5°	6.6	6.4	6.3	6.2	6.3	6.3	6.3	6.4	6.1	5.9	5.7
-90°	5.3	5.1	4.8	4.5	4.5	4.5	4.5	4.5	4.2	3.9	3.6



REPORT NUMBER: P731435 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	4.5	4.5	4.5	4.5	4.5	4.8	5.1	5.3	5.6	6.4	7.3
87.5°	3.3	3.0	2.8	2.5	2.2	1.9	1.7	1.4	1.1	1.1	1.1
85°	3.3	3.0	2.8	2.5	2.2	1.9	1.7	1.4	1.1	1.1	1.1
82.5°	3.3	3.2	3.1	3.0	3.0	2.8	2.6	2.3	2.1	1.9	1.6
80°	3.3	3.3	3.3	3.3	3.3	3.1	2.8	2.5	2.2	1.9	1.7
77.5°	3.5	3.5	3.5	3.5	3.3	3.1	2.8	2.5	2.2	2.0	1.7
75°	4.5	4.3	4.1	3.8	3.4	3.1	2.8	2.5	2.3	2.2	2.2
72.5°	5.5	5.2	5.0	5.2	5.1	5.0	4.9	4.6	4.1	4.1	4.2
70°	10.2	10.7	10.8	10.2	9.1	8.2	7.4	6.6	5.7	5.4	5.5
67.5°	16.3	15.5	14.5	13.2	11.3	9.7	8.6	7.7	6.8	6.5	6.5
65°	20.2	16.7	14.4	12.5	11.0	9.6	8.6	7.5	6.5	5.9	5.8
62.5°	18.5	14.5	12.0	10.5	9.4	8.6	7.2	6.2	5.3	4.9	5.0
60°	15.9	11.6	9.0	7.8	6.7	5.7	5.2	4.8	4.6	4.5	4.6
57.5°	12.6	8.8	6.6	6.2	5.6	4.8	4.6	4.7	4.6	4.5	4.5
55°	9.3	7.6	6.7	6.4	6.1	5.8	5.5	5.5	5.3	5.2	5.3
52.5°	7.5	7.5	7.6	7.5	7.2	6.9	6.6	6.6	6.7	6.9	7.2
50°	8.3	8.5	8.7	8.6	8.4	8.1	7.7	8.1	8.6	9.0	9.4
47.5°	9.7	10.1	10.6	9.9	10.0	10.6	10.2	10.3	12.0	13.0	13.7
45°	12.3	14.3	14.7	15.1	15.3	16.4	17.0	17.3	20.5	21.9	22.0
42.5°	19.6	21.4	22.9	24.4	24.2	27.8	32.6	35.4	35.2	34.7	35.3
40°	29.6	31.6	36.1	39.6	44.9	49.6	49.9	45.3	45.9	51.2	51.6
37.5°	44.5	50.7	59.7	69.6	72.3	69.2	71.1	74.4	77.9	82.8	88.5
35°	70.8	91.6	95.7	103.4	108.4	103.4	105.4	114.3	114.4	130.1	138.8
32.5°	125.6	157.5	167.3	160.4	173.8	181.9	157.0	188.2	194.2	210.4	230.3
30°	204.9	271.2	291.7	282.2	318.4	329.8	307.8	370.7	407.6	406.9	500.2
27.5°	389.3	422.4	460.9	519.7	527.3	546.9	670.9	766.8	888.6	1003.6	1153.0
25°	595.7	614.4	724.7	797.4	833.3	964.4	1148.1	1298.0	1556.3	1797.3	2299.2
22.5°	785.7	855.9	990.4	1106.8	1237.5	1448.5	1701.9	1980.0	2666.4	3510.9	4570.5
20°	972.2	1064.5	1225.3	1434.5	1643.2	1930.2	2267.0	3148.2	4497.9	6543.5	8754.3
17.5°	1182.7	1271.5	1490.7	1786.1	2103.5	2533.7	3567.1	5250.7	8116.9	12118.8	15979.4
15°	1456.0	1608.9	1851.4	2287.8	2895.4	3909.4	5593.9	9746.4	15468.9	21692.2	28364.1
12.5°	1775.7	2027.8	2422.5	2986.5	3861.3	6256.8	10490.5	17158.4	25709.8	34450.2	45416.0
10°	2085.2	2506.9	3110.9	3999.7	5740.0	9515.5	15822.8	25446.2	38548.6	52062.6	64173.2
7.5°	2357.1	2915.1	3727.8	4973.5	7736.3	13192.8	22266.5	35676.2	52007.5	68707.3	84992.4
5°	2634.7	3298.2	4245.4	5702.7	8953.7	15854.6	27501.4	45041.6	64773.0	84999.5	106254.5
2.5°	2862.6	3619.9	4677.4	6307.3	9673.1	17285.2	30747.7	51564.6	74362.5	97518.9	123967.1
0°	2999.7	3819.4	4891.0	6326.2	10238.1	18412.1	31549.6	53873.6	78411.1	103870.9	131552.0
-2.5°	3004.0	3777.8	4786.9	6266.2	10117.2	18104.0	31605.5	53816.0	78193.4	102713.5	130030.3
-5°	2994.6	3683.1	4630.8	6050.9	9393.4	16496.8	29180.9	50329.3	74340.1	97545.2	122426.1
-7.5°	2980.3	3557.9	4409.0	5706.8	8467.2	14557.0	26388.1	45747.9	68402.0	90016.5	112289.1
-10°	2963.7	3428.3	4204.9	5411.5	7628.1	12249.6	21227.5	38858.5	59640.1	79585.6	97849.7
-12.5°	2949.5	3375.1	4040.5	5004.7	6608.1	10264.7	17921.5	31756.0	48585.1	65426.8	81606.0
-15°	2895.1	3304.6	3906.3	4702.6	6002.5	8559.9	13378.6	22941.4	36760.4	50064.4	62907.7
-17.5°	2783.6	3204.3	3582.9	4202.8	5140.4	6808.1	9965.2	15727.5	24600.4	35000.0	44060.8
-20°	2565.2	2853.6	3167.6	3694.2	4415.8	5293.7	6733.5	10016.9	14235.8	21019.3	25770.0



REPORT NUMBER: P731435 (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°	2241.0	2483.5	2747.7	3098.5	3606.0	4225.6	4993.8	6207.7	8409.1	11023.7	13913.4
-25°	1945.2	2119.5	2364.3	2665.7	2937.3	3341.5	3879.9	4350.8	5301.7	6070.9	7660.2
-27.5°	1721.0	1865.9	2087.7	2321.4	2521.9	2738.5	3113.1	3446.0	3908.6	4312.5	4958.6
-30°	1558.9	1707.4	1885.6	2062.8	2253.2	2436.8	2604.5	2856.9	3134.3	3397.8	3739.6
-32.5°	1358.8	1593.0	1722.0	1871.9	2041.3	2201.9	2329.7	2489.3	2642.1	2816.6	3004.1
-35°	1149.7	1405.6	1603.7	1718.8	1844.7	1998.0	2129.1	2238.2	2339.4	2447.8	2546.8
-37.5°	903.5	1186.3	1412.0	1582.3	1697.2	1804.3	1944.8	2049.8	2116.7	2206.5	2274.2
-40°	776.5	889.8	1146.3	1377.8	1525.9	1694.5	1825.3	1936.4	2058.9	2154.6	2209.7
-42.5°	714.6	780.3	848.6	1037.7	1269.4	1471.9	1640.5	1823.2	1987.2	2117.5	2238.9
-45°	666.8	713.4	762.1	824.8	889.7	1079.2	1287.0	1500.7	1692.1	1870.9	2024.4
-47.5°	603.0	657.6	701.9	741.6	781.5	839.7	901.9	988.6	1172.5	1359.0	1536.8
-50°	537.3	587.5	636.5	682.5	719.9	749.2	772.7	811.0	866.4	921.5	975.7
-52.5°	475.4	522.0	566.4	611.0	654.7	693.5	727.8	754.8	777.1	796.0	808.9
-55°	431.1	467.8	502.3	544.9	586.9	625.9	662.0	695.2	725.5	753.0	772.0
-57.5°	385.1	421.1	456.8	492.6	527.3	560.9	594.5	627.4	658.2	686.2	705.0
-60°	339.5	370.2	405.7	442.7	477.3	509.6	540.9	570.4	597.8	621.4	636.6
-62.5°	296.4	325.5	356.1	389.3	424.4	458.5	489.9	519.7	548.0	570.8	585.6
-65°	253.0	277.4	303.6	331.0	359.4	388.5	418.4	448.9	479.6	504.2	520.3
-67.5°	190.0	214.5	240.2	267.1	291.2	313.5	335.0	357.2	379.6	398.3	413.0
-70°	123.6	141.9	159.8	178.2	198.3	218.6	238.1	256.4	273.3	286.8	297.8
-72.5°	66.8	75.6	85.6	99.5	113.0	126.5	139.9	152.5	164.3	173.2	180.1
-75°	30.9	35.0	42.5	49.5	55.9	62.5	68.8	74.6	80.0	83.7	86.6
-77.5°	22.0	23.8	25.6	27.4	29.2	31.7	34.3	36.9	39.5	41.9	44.3
-80°	15.5	16.5	17.5	18.4	19.3	20.7	22.3	23.8	25.3	26.9	28.3
-82.5°	10.3	11.0	11.7	12.3	12.9	13.7	14.6	15.3	16.1	17.4	18.6
-85°	7.0	7.3	7.6	7.9	8.3	8.9	9.6	10.3	11.0	11.8	12.7
-87.5°	5.4	5.4	5.5	5.5	5.5	6.0	6.6	7.2	7.7	8.6	9.5
-90°	3.3	3.0	2.8	2.5	2.2	1.9	1.7	1.4	1.1	0.8	0.6



REPORT NUMBER: P731435 (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°	8.1	8.9	9.5	10.0	9.5	8.9	8.1	7.3	6.4	5.6	5.3
87.5°	1.1	1.1	0.5	0.0	0.5	1.1	1.1	1.1	1.1	1.1	1.4
85°	1.1	1.1	0.6	0.0	0.6	1.1	1.1	1.1	1.1	1.1	1.4
82.5°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.6	1.9	2.1	2.3
80°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	1.9	2.2	2.5
77.5°	1.4	1.1	1.1	1.1	1.1	1.1	1.4	1.7	2.0	2.2	2.5
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.5
72.5°	4.4	4.4	4.5	4.5	4.5	4.4	4.4	4.2	4.1	4.1	4.6
70°	5.5	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.7	6.6
67.5°	6.6	6.7	6.7	6.7	6.7	6.7	6.6	6.5	6.5	6.8	7.7
65°	5.7	5.6	5.6	5.6	5.6	5.6	5.7	5.8	5.9	6.5	7.5
62.5°	5.3	5.5	5.6	5.6	5.6	5.5	5.3	5.0	4.9	5.3	6.2
60°	4.6	4.6	4.5	4.5	4.5	4.6	4.6	4.6	4.5	4.6	4.8
57.5°	4.5	4.5	4.9	5.6	4.9	4.5	4.5	4.5	4.5	4.6	4.7
55°	5.4	5.5	6.0	6.7	6.0	5.5	5.4	5.3	5.2	5.3	5.5
52.5°	7.5	7.7	7.8	7.8	7.8	7.7	7.5	7.2	6.9	6.7	6.6
50°	9.6	9.8	10.0	10.0	10.0	9.8	9.6	9.4	9.0	8.6	8.1
47.5°	14.2	14.3	14.4	14.5	14.4	14.3	14.2	13.7	13.0	12.0	10.3
45°	22.8	23.1	23.2	23.4	23.2	23.1	22.8	22.0	21.9	20.5	17.3
42.5°	36.7	37.3	37.3	36.8	37.3	37.3	36.7	35.3	34.7	35.2	35.4
40°	52.4	52.4	51.8	51.3	51.8	52.4	52.4	51.6	51.2	45.9	45.3
37.5°	91.1	87.8	81.9	79.2	81.9	87.8	91.1	88.5	82.8	77.9	74.4
35°	141.0	143.1	143.7	142.7	143.7	143.1	141.0	138.8	130.1	114.4	114.3
32.5°	235.8	247.1	250.8	257.6	250.8	247.1	235.8	230.3	210.4	194.2	188.2
30°	485.5	482.2	439.9	421.5	439.9	482.2	485.5	500.2	406.9	407.6	370.7
27.5°	1307.9	1458.5	1530.3	1524.4	1530.3	1458.5	1307.9	1153.0	1003.6	888.6	766.8
25°	2693.7	2935.7	3096.2	2990.8	3096.2	2935.7	2693.7	2299.2	1797.3	1556.3	1298.0
22.5°	5557.5	6085.0	6372.5	6475.6	6372.5	6085.0	5557.5	4570.5	3510.9	2666.4	1980.0
20°	11137.0	12133.1	12860.6	12253.2	12860.6	12133.1	11137.0	8754.3	6543.5	4497.9	3148.2
17.5°	20675.9	23774.4	26515.6	27372.2	26515.6	23774.4	20675.9	15979.4	12118.8	8116.9	5250.7
15°	34796.5	40029.4	43139.9	42958.6	43139.9	40029.4	34796.5	28364.1	21692.2	15468.9	9746.4
12.5°	53538.4	59996.1	64304.9	63346.7	64304.9	59996.1	53538.4	45416.0	34450.2	25709.8	17158.4
10°	76058.2	85839.5	92946.4	92619.1	92946.4	85839.5	76058.2	64173.2	52062.6	38548.6	25446.2
7.5°	99406.2	115463.6	129400.8	131746.1	129400.8	115463.6	99406.2	84992.4	68707.3	52007.5	35676.2
5°	129515.4	150679.7	164520.6	165311.8	164520.6	150679.7	129515.4	106254.5	84999.5	64773.0	45041.6
2.5°	153939.0	178218.0	189898.6	196975.7	189898.6	178218.0	153939.0	123967.1	97518.9	74362.5	51564.6
0°	165381.5	185118.9	206474.4	216592.7	206474.4	185118.9	165381.5	131552.0	103870.9	78411.1	53873.6
-2.5°	160687.1	181837.2	194650.7	205374.4	194650.7	181837.2	160687.1	130030.3	102713.5	78193.4	53816.0
-5°	150040.6	170996.9	181746.4	182749.3	181746.4	170996.9	150040.6	122426.1	97545.2	74340.1	50329.3
-7.5°	132659.9	150429.7	161715.5	165227.1	161715.5	150429.7	132659.9	112289.1	90016.5	68402.0	45747.9
-10°	114188.7	126968.1	134261.9	135660.2	134261.9	126968.1	114188.7	97849.7	79585.6	59640.1	38858.5
-12.5°	94985.1	105447.5	110480.3	111579.9	110480.3	105447.5	94985.1	81606.0	65426.8	48585.1	31756.0
-15°	73712.4	81585.1	86116.6	86905.1	86116.6	81585.1	73712.4	62907.7	50064.4	36760.4	22941.4
-17.5°	52614.5	59011.7	63602.1	64212.0	63602.1	59011.7	52614.5	44060.8	35000.0	24600.4	15727.5
-20°	32320.9	36673.6	39359.0	38965.2	39359.0	36673.6	32320.9	25770.0	21019.3	14235.8	10016.9



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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°	17401.1	19747.4	20882.3	21468.7	20882.3	19747.4	17401.1	13913.4	11023.7	8409.1	6207.7
-25°	9198.2	10191.9	10701.8	11101.2	10701.8	10191.9	9198.2	7660.2	6070.9	5301.7	4350.8
-27.5°	5473.0	5814.7	6004.5	6108.7	6004.5	5814.7	5473.0	4958.6	4312.5	3908.6	3446.0
-30°	4012.3	4176.0	4262.5	4305.6	4262.5	4176.0	4012.3	3739.6	3397.8	3134.3	2856.9
-32.5°	3154.6	3251.7	3311.5	3333.2	3311.5	3251.7	3154.6	3004.1	2816.6	2642.1	2489.3
-35°	2616.8	2649.3	2661.0	2681.9	2661.0	2649.3	2616.8	2546.8	2447.8	2339.4	2238.2
-37.5°	2325.8	2356.1	2370.8	2383.1	2370.8	2356.1	2325.8	2274.2	2206.5	2116.7	2049.8
-40°	2235.2	2267.3	2300.2	2324.0	2300.2	2267.3	2235.2	2209.7	2154.6	2058.9	1936.4
-42.5°	2291.9	2344.3	2380.3	2385.3	2380.3	2344.3	2291.9	2238.9	2117.5	1987.2	1823.2
-45°	2111.5	2171.3	2203.8	2214.7	2203.8	2171.3	2111.5	2024.4	1870.9	1692.1	1500.7
-47.5°	1694.4	1830.9	1912.4	1930.3	1912.4	1830.9	1694.4	1536.8	1359.0	1172.5	988.6
-50°	1028.4	1077.0	1103.8	1107.3	1103.8	1077.0	1028.4	975.7	921.5	866.4	811.0
-52.5°	819.1	827.8	833.2	836.4	833.2	827.8	819.1	808.9	796.0	777.1	754.8
-55°	788.6	803.2	811.4	815.2	811.4	803.2	788.6	772.0	753.0	725.5	695.2
-57.5°	721.8	736.6	743.2	744.9	743.2	736.6	721.8	705.0	686.2	658.2	627.4
-60°	650.4	663.0	666.9	666.9	666.9	663.0	650.4	636.6	621.4	597.8	570.4
-62.5°	599.6	612.7	619.0	622.2	619.0	612.7	599.6	585.6	570.8	548.0	519.7
-65°	534.4	546.4	551.4	553.1	551.4	546.4	534.4	520.3	504.2	479.6	448.9
-67.5°	426.0	437.3	440.6	440.5	440.6	437.3	426.0	413.0	398.3	379.6	357.2
-70°	307.1	314.6	315.9	314.5	315.9	314.6	307.1	297.8	286.8	273.3	256.4
-72.5°	185.7	190.0	191.7	191.8	191.7	190.0	185.7	180.1	173.2	164.3	152.5
-75°	88.8	90.4	91.7	92.6	91.7	90.4	88.8	86.6	83.7	80.0	74.6
-77.5°	46.6	48.7	49.5	50.2	49.5	48.7	46.6	44.3	41.9	39.5	36.9
-80°	29.7	31.0	31.2	31.2	31.2	31.0	29.7	28.3	26.9	25.3	23.8
-82.5°	19.9	21.1	21.2	21.2	21.2	21.1	19.9	18.6	17.4	16.1	15.3
-85°	13.6	14.5	15.0	15.6	15.0	14.5	13.6	12.7	11.8	11.0	10.3
-87.5°	10.3	11.2	11.2	11.2	11.2	11.2	10.3	9.5	8.6	7.7	7.2
-90°	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.8	1.1	1.4



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	5.1	4.8	4.5	4.5	4.5	4.5	4.5	4.8	5.1	5.3	5.6
87.5°	1.7	1.9	2.2	2.5	2.8	3.0	3.3	3.6	3.9	4.2	4.5
85°	1.7	1.9	2.2	2.5	2.8	3.0	3.3	3.6	3.9	4.2	4.5
82.5°	2.6	2.8	3.0	3.0	3.1	3.2	3.3	3.6	3.9	4.2	4.5
80°	2.8	3.1	3.3	3.3	3.3	3.3	3.3	3.7	4.0	4.3	4.5
77.5°	2.8	3.1	3.3	3.5	3.5	3.5	3.5	3.7	4.0	4.3	4.6
75°	2.8	3.1	3.4	3.8	4.1	4.3	4.5	4.6	4.7	4.8	4.8
72.5°	4.9	5.0	5.1	5.2	5.0	5.2	5.5	5.7	5.8	5.7	5.5
70°	7.4	8.2	9.1	10.2	10.8	10.7	10.2	9.3	7.9	7.3	6.8
67.5°	8.6	9.7	11.3	13.2	14.5	15.5	16.3	16.5	15.6	13.9	10.3
65°	8.6	9.6	11.0	12.5	14.4	16.7	20.2	22.0	22.2	21.1	16.4
62.5°	7.2	8.6	9.4	10.5	12.0	14.5	18.5	22.1	25.6	26.6	21.4
60°	5.2	5.7	6.7	7.8	9.0	11.6	15.9	20.2	24.6	24.7	23.0
57.5°	4.6	4.8	5.6	6.2	6.6	8.8	12.6	17.5	22.3	21.6	20.4
55°	5.5	5.8	6.1	6.4	6.7	7.6	9.3	12.6	16.9	18.0	17.1
52.5°	6.6	6.9	7.2	7.5	7.6	7.5	7.5	9.5	11.5	13.3	13.9
50°	7.7	8.1	8.4	8.6	8.7	8.5	8.3	8.1	9.3	10.6	11.1
47.5°	10.2	10.6	10.0	9.9	10.6	10.1	9.7	9.7	10.3	10.0	10.5
45°	17.0	16.4	15.3	15.1	14.7	14.3	12.3	13.2	13.4	12.8	11.1
42.5°	32.6	27.8	24.2	24.4	22.9	21.4	19.6	19.2	18.5	17.0	16.0
40°	49.9	49.6	44.9	39.6	36.1	31.6	29.6	27.2	25.6	23.4	22.8
37.5°	71.1	69.2	72.3	69.6	59.7	50.7	44.5	38.0	33.8	35.9	34.1
35°	105.4	103.4	108.4	103.4	95.7	91.6	70.8	55.3	50.2	55.7	50.1
32.5°	157.0	181.9	173.8	160.4	167.3	157.5	125.6	86.7	86.2	84.8	75.2
30°	307.8	329.8	318.4	282.2	291.7	271.2	204.9	191.6	160.7	122.3	106.8
27.5°	670.9	546.9	527.3	519.7	460.9	422.4	389.3	350.8	270.5	198.5	148.5
25°	1148.1	964.4	833.3	797.4	724.7	614.4	595.7	548.0	449.3	301.7	204.1
22.5°	1701.9	1448.5	1237.5	1106.8	990.4	855.9	785.7	755.8	649.5	431.0	294.6
20°	2267.0	1930.2	1643.2	1434.5	1225.3	1064.5	972.2	924.9	793.1	588.2	389.1
17.5°	3567.1	2533.7	2103.5	1786.1	1490.7	1271.5	1182.7	1070.6	936.3	740.6	481.0
15°	5593.9	3909.4	2895.4	2287.8	1851.4	1608.9	1456.0	1241.7	1077.0	875.1	623.9
12.5°	10490.5	6256.8	3861.3	2986.5	2422.5	2027.8	1775.7	1482.2	1235.8	1059.8	835.6
10°	15822.8	9515.5	5740.0	3999.7	3110.9	2506.9	2085.2	1725.9	1442.5	1261.5	1044.8
7.5°	22266.5	13192.8	7736.3	4973.5	3727.8	2915.1	2357.1	1933.3	1634.7	1450.4	1248.5
5°	27501.4	15854.6	8953.7	5702.7	4245.4	3298.2	2634.7	2109.1	1813.1	1627.6	1442.6
2.5°	30747.7	17285.2	9673.1	6307.3	4677.4	3619.9	2862.6	2258.7	1951.7	1742.5	1550.4
0°	31549.6	18412.1	10238.1	6326.2	4891.0	3819.4	2999.7	2389.7	2067.5	1838.9	1641.5
-2.5°	31605.5	18104.0	10117.2	6266.2	4786.9	3777.8	3004.0	2452.6	2133.5	1888.7	1675.0
-5°	29180.9	16496.8	9393.4	6050.9	4630.8	3683.1	2994.6	2509.9	2183.6	1930.5	1686.9
-7.5°	26388.1	14557.0	8467.2	5706.8	4409.0	3557.9	2980.3	2556.3	2217.8	1976.3	1702.8
-10°	21227.5	12249.6	7628.1	5411.5	4204.9	3428.3	2963.7	2570.9	2242.6	2013.7	1693.3
-12.5°	17921.5	10264.7	6608.1	5004.7	4040.5	3375.1	2949.5	2543.4	2259.5	2043.6	1656.5
-15°	13378.6	8559.9	6002.5	4702.6	3906.3	3304.6	2895.1	2462.8	2197.7	2028.6	1591.4
-17.5°	9965.2	6808.1	5140.4	4202.8	3582.9	3204.3	2783.6	2375.6	2092.0	1875.3	1426.1
-20°	6733.5	5293.7	4415.8	3694.2	3167.6	2853.6	2565.2	2223.1	1961.7	1656.2	1217.3





REPORT NUMBER: P731435 (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°	4993.8	4225.6	3606.0	3098.5	2747.7	2483.5	2241.0	1995.4	1800.4	1429.3	1004.1
-25°	3879.9	3341.5	2937.3	2665.7	2364.3	2119.5	1945.2	1794.2	1548.8	1192.2	812.6
-27.5°	3113.1	2738.5	2521.9	2321.4	2087.7	1865.9	1721.0	1589.6	1295.3	958.4	749.8
-30°	2604.5	2436.8	2253.2	2062.8	1885.6	1707.4	1558.9	1321.0	1049.2	777.1	693.2
-32.5°	2329.7	2201.9	2041.3	1871.9	1722.0	1593.0	1358.8	1066.3	817.2	718.2	646.3
-35°	2129.1	1998.0	1844.7	1718.8	1603.7	1405.6	1149.7	864.8	726.9	663.7	602.7
-37.5°	1944.8	1804.3	1697.2	1582.3	1412.0	1186.3	903.5	754.3	675.8	618.7	556.4
-40°	1825.3	1694.5	1525.9	1377.8	1146.3	889.8	776.5	699.4	638.0	571.2	506.9
-42.5°	1640.5	1471.9	1269.4	1037.7	848.6	780.3	714.6	656.9	593.2	522.7	459.5
-45°	1287.0	1079.2	889.7	824.8	762.1	713.4	666.8	604.9	538.2	474.9	412.8
-47.5°	901.9	839.7	781.5	741.6	701.9	657.6	603.0	543.6	484.7	426.8	378.0
-50°	772.7	749.2	719.9	682.5	636.5	587.5	537.3	484.8	434.3	388.9	342.6
-52.5°	727.8	693.5	654.7	611.0	566.4	522.0	475.4	435.4	393.4	350.9	307.2
-55°	662.0	625.9	586.9	544.9	502.3	467.8	431.1	392.5	353.5	313.0	275.1
-57.5°	594.5	560.9	527.3	492.6	456.8	421.1	385.1	349.1	314.1	278.3	243.9
-60°	540.9	509.6	477.3	442.7	405.7	370.2	339.5	307.7	274.8	246.2	216.8
-62.5°	489.9	458.5	424.4	389.3	356.1	325.5	296.4	268.7	243.0	216.9	183.6
-65°	418.4	388.5	359.4	331.0	303.6	277.4	253.0	226.2	198.7	172.7	143.9
-67.5°	335.0	313.5	291.2	267.1	240.2	214.5	190.0	167.0	144.8	123.0	97.9
-70°	238.1	218.6	198.3	178.2	159.8	141.9	123.6	105.4	87.3	73.3	58.9
-72.5°	139.9	126.5	113.0	99.5	85.6	75.6	66.8	57.5	47.4	36.7	28.5
-75°	68.8	62.5	55.9	49.5	42.5	35.0	30.9	28.6	26.3	23.8	21.1
-77.5°	34.3	31.7	29.2	27.4	25.6	23.8	22.0	20.2	18.8	17.4	16.2
-80°	22.3	20.7	19.3	18.4	17.5	16.5	15.5	14.6	13.8	13.1	12.4
-82.5°	14.6	13.7	12.9	12.3	11.7	11.0	10.3	9.9	9.5	9.0	8.5
-85°	9.6	8.9	8.3	7.9	7.6	7.3	7.0	7.0	7.0	7.1	7.2
-87.5°	6.6	6.0	5.5	5.5	5.5	5.4	5.4	5.7	5.9	6.1	6.4
-90°	1.7	1.9	2.2	2.5	2.8	3.0	3.3	3.6	3.9	4.2	4.5





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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°	5.6	5.6	5.6	5.6	5.9	6.2	6.4	6.7	6.4	6.2	5.9
87.5°	4.5	4.5	4.5	4.5	4.8	5.1	5.3	5.6	5.6	5.6	5.6
85°	4.6	4.7	4.7	4.7	4.8	5.1	5.3	5.6	5.6	5.6	5.6
82.5°	4.8	5.0	5.2	5.3	5.3	5.3	5.4	5.6	5.6	5.6	5.6
80°	4.8	5.1	5.4	5.6	5.6	5.6	5.6	5.6	5.8	5.8	5.8
77.5°	4.9	5.1	5.4	5.6	5.6	5.6	5.6	5.7	5.9	6.0	6.0
75°	4.9	5.2	5.4	5.6	5.6	5.6	5.6	5.7	6.0	6.2	6.3
72.5°	5.4	5.4	5.5	5.6	5.6	5.6	5.6	5.7	6.0	6.2	6.5
70°	6.2	5.7	5.6	5.7	5.7	5.6	5.6	5.7	6.0	6.3	6.5
67.5°	7.3	6.6	6.0	5.9	6.0	5.9	5.7	5.8	6.0	6.3	6.6
65°	12.1	8.8	6.7	6.4	6.3	6.3	6.1	5.9	6.1	6.3	6.6
62.5°	16.4	12.0	9.0	7.2	6.6	6.5	6.6	6.3	6.2	6.4	6.6
60°	20.5	15.4	11.4	9.1	7.4	6.7	6.7	6.6	6.4	6.4	6.7
57.5°	19.0	17.8	14.5	11.1	8.8	7.3	6.7	6.7	6.6	6.5	6.7
55°	16.2	15.6	16.0	13.4	10.2	8.2	7.0	6.7	6.7	6.6	6.7
52.5°	13.2	14.0	15.2	14.6	11.9	9.1	7.7	6.7	6.7	6.7	6.7
50°	10.9	12.6	14.5	14.8	13.1	10.3	8.4	7.2	6.7	6.7	6.8
47.5°	10.9	12.4	13.6	15.2	14.0	11.3	9.1	7.7	6.7	6.7	6.8
45°	12.6	13.2	13.7	14.7	15.0	12.1	9.8	8.1	7.0	6.8	6.9
42.5°	15.4	15.6	15.2	14.4	14.9	12.7	10.3	8.5	7.3	6.8	7.0
40°	21.2	19.1	17.5	17.1	15.5	13.0	10.6	8.8	7.6	7.0	7.1
37.5°	28.1	24.6	21.5	22.0	17.8	14.3	10.8	9.0	8.0	7.3	7.2
35°	41.0	31.9	30.6	29.7	23.9	16.1	10.7	9.0	8.4	7.6	7.2
32.5°	56.4	47.4	45.9	39.9	31.6	18.7	11.9	9.8	9.0	7.9	7.3
30°	85.3	76.6	65.7	52.1	41.2	25.8	14.7	10.8	9.5	8.2	7.4
27.5°	131.4	111.0	90.7	70.3	52.7	34.5	18.3	12.0	10.2	8.6	7.6
25°	180.8	153.3	123.7	92.7	65.5	47.1	21.9	13.6	11.1	9.1	7.9
22.5°	233.0	199.1	160.1	117.7	84.0	62.0	28.7	16.5	12.2	9.6	8.1
20°	286.1	246.3	200.9	147.7	106.7	77.8	39.9	19.4	13.4	10.1	8.3
17.5°	344.6	303.8	253.5	185.6	131.4	94.3	52.1	22.2	14.7	10.7	8.5
15°	456.3	373.5	311.1	226.7	155.8	111.2	65.1	24.8	16.0	11.2	8.7
12.5°	592.5	444.0	372.4	270.1	179.7	128.4	78.3	27.3	17.4	12.2	9.0
10°	742.3	514.4	435.8	314.6	202.7	145.5	91.6	31.7	20.1	13.5	9.2
7.5°	899.3	584.2	499.7	358.8	227.6	169.5	117.4	40.6	22.9	14.9	9.4
5°	1045.3	647.1	563.0	413.8	266.2	200.5	145.3	49.8	25.8	16.3	9.6
2.5°	1132.5	698.3	622.5	467.3	303.5	230.3	172.3	59.1	28.6	17.7	9.8
0°	1203.2	746.0	676.9	516.3	339.0	258.7	197.4	68.0	31.2	19.0	10.0
-2.5°	1217.7	773.2	695.8	544.1	372.3	286.5	217.6	82.7	41.5	25.2	13.3
-5°	1214.8	797.2	710.4	567.2	403.0	312.4	234.5	96.3	51.3	31.1	16.5
-7.5°	1211.2	808.6	718.0	583.8	430.8	335.8	247.7	108.8	60.5	36.6	19.5
-10°	1184.7	811.1	716.1	581.5	436.7	345.5	255.0	119.8	68.9	41.6	22.2
-12.5°	1127.2	810.6	711.1	574.1	435.2	342.4	247.4	127.4	76.2	45.9	24.4
-15°	1035.5	807.1	703.3	561.7	429.2	337.3	238.4	132.8	82.1	49.8	26.2
-17.5°	901.0	800.8	693.1	544.2	418.4	330.3	228.6	136.6	87.1	53.3	27.8
-20°	837.8	770.0	678.6	521.6	402.5	321.4	218.5	138.8	91.0	55.9	29.2



REPORT NUMBER: P731435 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-CV2

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	791.0	719.1	626.2	500.6	385.5	310.5	208.5	139.3	93.8	57.4	30.0
-25°	736.9	666.9	570.4	462.2	371.2	294.6	203.2	138.1	95.6	57.9	30.0
-27.5°	678.3	611.6	517.4	423.9	350.2	280.3	200.7	139.4	96.1	57.1	29.2
-30°	619.5	553.9	472.4	389.3	328.2	260.7	196.1	139.3	95.1	55.9	27.6
-32.5°	574.2	501.6	430.3	364.0	305.2	240.9	185.1	137.7	92.5	54.0	26.4
-35°	531.7	459.2	390.8	338.0	282.2	224.3	172.2	134.6	88.2	50.9	25.0
-37.5°	487.4	420.6	362.1	312.3	259.5	206.3	161.9	124.6	82.3	46.6	22.9
-40°	444.7	385.1	334.8	288.0	238.0	187.1	150.5	113.2	75.9	41.1	20.1
-42.5°	401.9	354.2	307.9	264.0	215.7	173.3	137.9	101.0	66.9	36.3	16.7
-45°	367.2	322.6	280.0	237.8	193.4	158.6	123.6	88.2	56.7	31.6	14.1
-47.5°	331.5	290.6	251.8	211.6	176.1	142.7	108.5	76.0	46.0	25.9	13.2
-50°	295.5	259.5	224.3	189.9	157.8	125.3	93.0	62.9	38.3	19.3	12.2
-52.5°	265.7	231.3	199.6	169.1	138.2	107.2	77.4	49.5	30.1	16.1	11.0
-55°	238.3	204.9	176.1	146.9	117.6	88.6	60.9	39.5	21.3	14.3	9.8
-57.5°	212.2	179.4	151.3	123.7	95.8	69.0	46.9	28.8	17.5	12.4	9.7
-60°	185.4	153.0	125.4	98.5	72.6	51.2	34.1	20.3	15.0	10.7	9.5
-62.5°	152.6	123.6	95.9	71.4	52.0	35.8	22.5	17.1	12.4	10.3	9.2
-65°	115.2	88.7	65.2	49.0	33.8	22.8	18.5	13.8	11.2	9.9	8.9
-67.5°	74.2	57.5	41.9	28.0	22.2	18.4	14.3	12.0	10.5	9.3	8.6
-70°	44.4	30.6	24.2	20.9	17.6	14.3	12.5	10.9	9.6	8.8	8.3
-72.5°	25.2	22.0	19.0	16.2	14.3	12.6	11.0	9.7	9.0	8.4	7.9
-75°	18.5	16.8	15.3	13.9	12.3	10.9	9.8	8.9	8.3	7.8	7.6
-77.5°	14.9	13.8	12.6	11.7	10.6	9.6	8.7	8.0	7.7	7.5	7.2
-80°	11.6	10.9	10.3	9.8	9.0	8.3	7.8	7.5	7.3	7.1	6.9
-82.5°	8.2	8.3	8.3	8.3	7.9	7.5	7.2	7.0	6.9	6.7	6.6
-85°	7.2	7.2	7.1	7.0	6.8	6.7	6.7	6.7	6.6	6.5	6.4
-87.5°	6.3	6.3	6.3	6.2	6.3	6.4	6.6	6.7	6.5	6.3	6.1
-90°	4.5	4.5	4.5	4.5	4.8	5.1	5.3	5.6	5.6	5.6	5.6



REPORT NUMBER: P731435 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.6	5.6	5.6	5.6	5.6	5.6	5.6
87.5°	5.6	5.7	5.7	5.7	5.7	5.6	5.6
85°	5.6	5.7	5.8	5.8	5.8	5.6	5.6
82.5°	5.6	5.8	5.9	5.9	5.9	5.7	5.6
80°	5.7	5.9	6.0	6.0	6.0	5.7	5.6
77.5°	5.9	6.0	6.1	6.1	6.1	5.7	5.6
75°	6.2	6.1	6.2	6.3	6.1	5.7	5.6
72.5°	6.5	6.3	6.3	6.4	6.2	5.8	5.6
70°	6.7	6.5	6.4	6.5	6.3	5.8	5.6
67.5°	6.7	6.6	6.5	6.5	6.4	5.8	5.6
65°	6.7	6.7	6.6	6.6	6.4	5.8	5.6
62.5°	6.7	6.7	6.6	6.6	6.5	5.8	5.6
60°	6.7	6.7	6.7	6.6	6.6	5.8	5.6
57.5°	6.7	6.7	6.7	6.6	6.5	5.8	5.6
55°	6.7	6.7	6.7	6.7	6.5	5.9	5.6
52.5°	6.7	6.7	6.7	6.7	6.5	5.9	5.6
50°	6.7	6.7	6.7	6.7	6.5	5.9	5.6
47.5°	6.7	6.7	6.7	6.7	6.5	5.9	5.6
45°	6.8	6.7	6.7	6.7	6.5	5.9	5.6
42.5°	6.9	6.7	6.7	6.7	6.5	5.9	5.6
40°	7.0	6.7	6.7	6.7	6.5	5.9	5.6
37.5°	7.2	6.7	6.7	6.7	6.5	5.9	5.6
35°	7.3	6.8	6.7	6.7	6.5	5.9	5.6
32.5°	7.4	6.9	6.7	6.7	6.5	5.8	5.6
30°	7.5	7.0	6.7	6.7	6.6	5.8	5.6
27.5°	7.6	7.1	6.7	6.7	6.6	5.8	5.6
25°	7.6	7.3	6.7	6.7	6.6	5.8	5.6
22.5°	7.7	7.4	6.7	6.7	6.6	5.8	5.6
20°	7.8	7.5	6.7	6.7	6.6	5.8	5.6
17.5°	7.9	7.5	6.7	6.7	6.6	5.8	5.6
15°	8.0	7.6	6.7	6.7	6.6	5.7	5.6
12.5°	8.1	7.7	6.7	6.7	6.7	5.7	5.6
10°	8.3	7.7	6.7	6.7	6.7	5.7	5.6
7.5°	8.4	7.8	6.7	6.7	6.7	5.7	5.6
5°	8.6	7.8	6.7	6.7	6.7	5.6	5.6
2.5°	8.7	7.8	6.7	6.7	6.7	5.6	5.6
0°	8.9	7.8	6.7	6.7	6.7	5.6	5.6
-2.5°	9.8	7.8	6.7	6.7	6.7	5.6	5.6
-5°	10.6	7.8	6.7	6.7	6.7	5.6	5.6
-7.5°	11.4	7.8	6.7	6.7	6.7	5.6	5.6
-10°	12.0	7.7	6.7	6.7	6.7	5.6	5.6
-12.5°	12.5	7.7	6.7	6.7	6.6	5.6	5.6
-15°	12.9	7.6	6.7	6.7	6.6	5.6	5.6
-17.5°	13.0	7.5	6.7	6.7	6.6	5.6	5.6
-20°	13.2	7.5	6.7	6.7	6.6	5.6	5.6



REPORT NUMBER: P731435 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-3S-CV2

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	13.6	7.4	6.7	6.7	6.5	5.6	5.6
-25°	13.6	7.5	6.7	6.7	6.5	5.6	5.6
-27.5°	13.2	7.7	6.7	6.7	6.5	5.6	5.6
-30°	12.5	7.7	6.7	6.7	6.4	5.6	5.6
-32.5°	11.2	7.7	6.8	6.7	6.4	5.6	5.6
-35°	10.8	7.6	6.9	6.7	6.3	5.6	5.6
-37.5°	10.7	7.6	7.0	6.7	6.2	5.6	5.6
-40°	10.4	7.7	7.0	6.7	6.2	5.6	5.6
-42.5°	10.1	7.7	7.1	6.7	6.1	5.6	5.6
-45°	9.5	7.8	7.1	6.7	6.1	5.6	5.6
-47.5°	8.9	7.8	7.1	6.8	6.0	5.6	5.6
-50°	8.8	7.8	7.2	6.7	5.9	5.6	5.6
-52.5°	8.7	7.8	7.2	6.6	5.8	5.6	5.6
-55°	8.7	7.8	7.2	6.5	5.8	5.6	5.6
-57.5°	8.6	7.7	7.1	6.4	5.7	5.6	5.6
-60°	8.5	7.7	7.1	6.3	5.6	5.6	5.6
-62.5°	8.3	7.6	7.0	6.2	5.6	5.6	5.6
-65°	8.1	7.5	6.8	6.1	5.6	5.6	5.6
-67.5°	7.9	7.3	6.6	6.0	5.6	5.6	5.6
-70°	7.7	7.1	6.5	5.9	5.6	5.6	5.6
-72.5°	7.5	6.9	6.3	5.8	5.6	5.6	5.6
-75°	7.2	6.7	6.1	5.8	5.6	5.6	5.6
-77.5°	7.0	6.5	6.1	5.8	5.6	5.6	5.6
-80°	6.7	6.3	6.0	5.7	5.6	5.6	5.6
-82.5°	6.4	6.1	5.9	5.7	5.6	5.6	5.6
-85°	6.2	6.0	5.8	5.7	5.6	5.6	5.6
-87.5°	5.9	5.8	5.7	5.6	5.6	5.6	5.6
-90°	5.6	5.6	5.6	5.6	5.6	5.6	5.6

(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

