

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: P731332 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-1S-CV5**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731332 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-80-1S-CV5  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

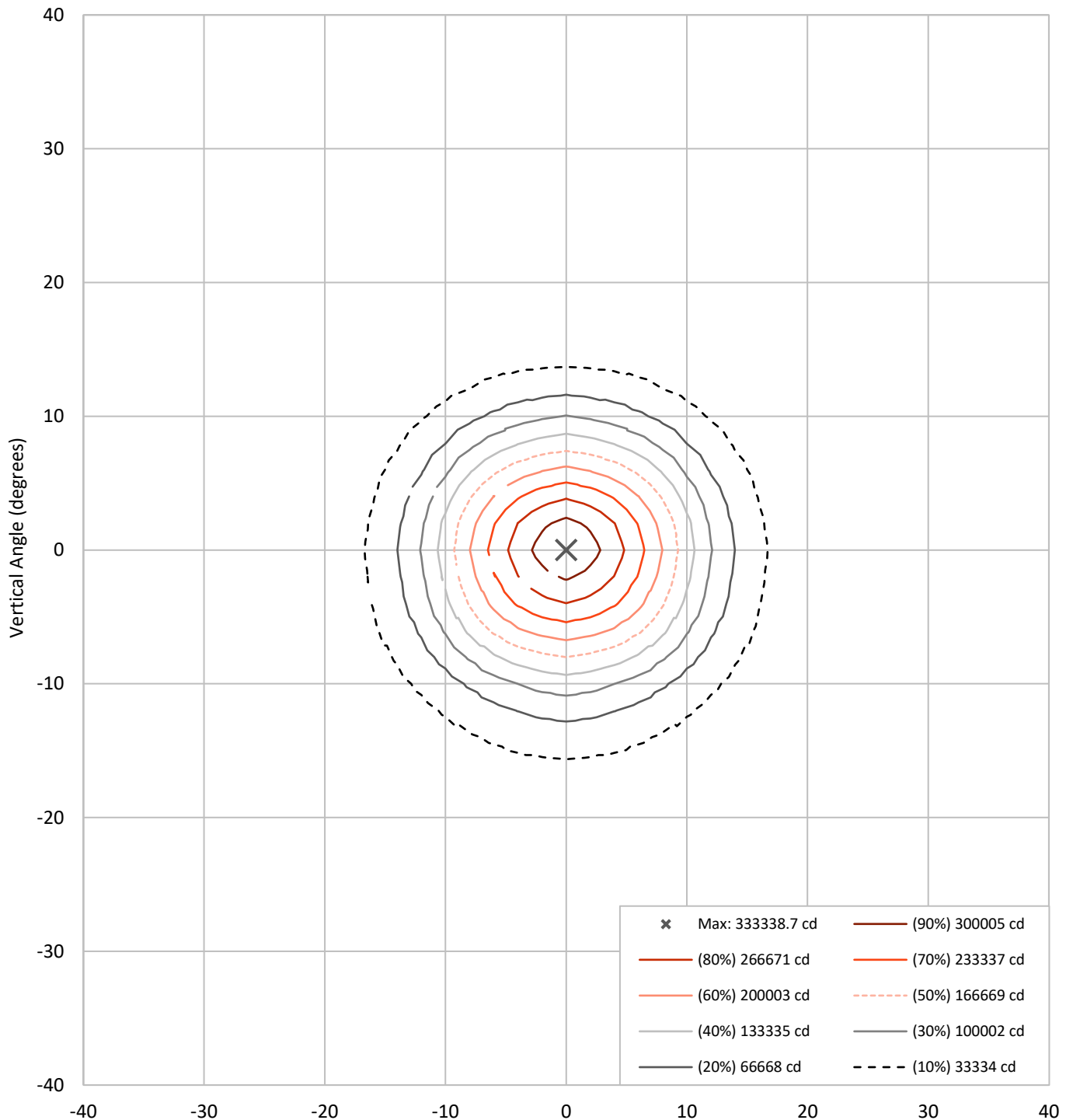
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	34270.4 lumens	Max Intensity:	333338.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	99.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.6°H x 15.4°V	Field Angle (10%):	33.2°H x 29.1°V
Beam Lumens:	15805.1 lumens	Field Lumens:	29158.7 lumens
Beam Efficiency:	46.1%	Field Efficiency:	85.1%

Input Watts (W): 343.2  
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

REPORT NUMBER: P731332 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-CV5

### Iso-Candela Plot





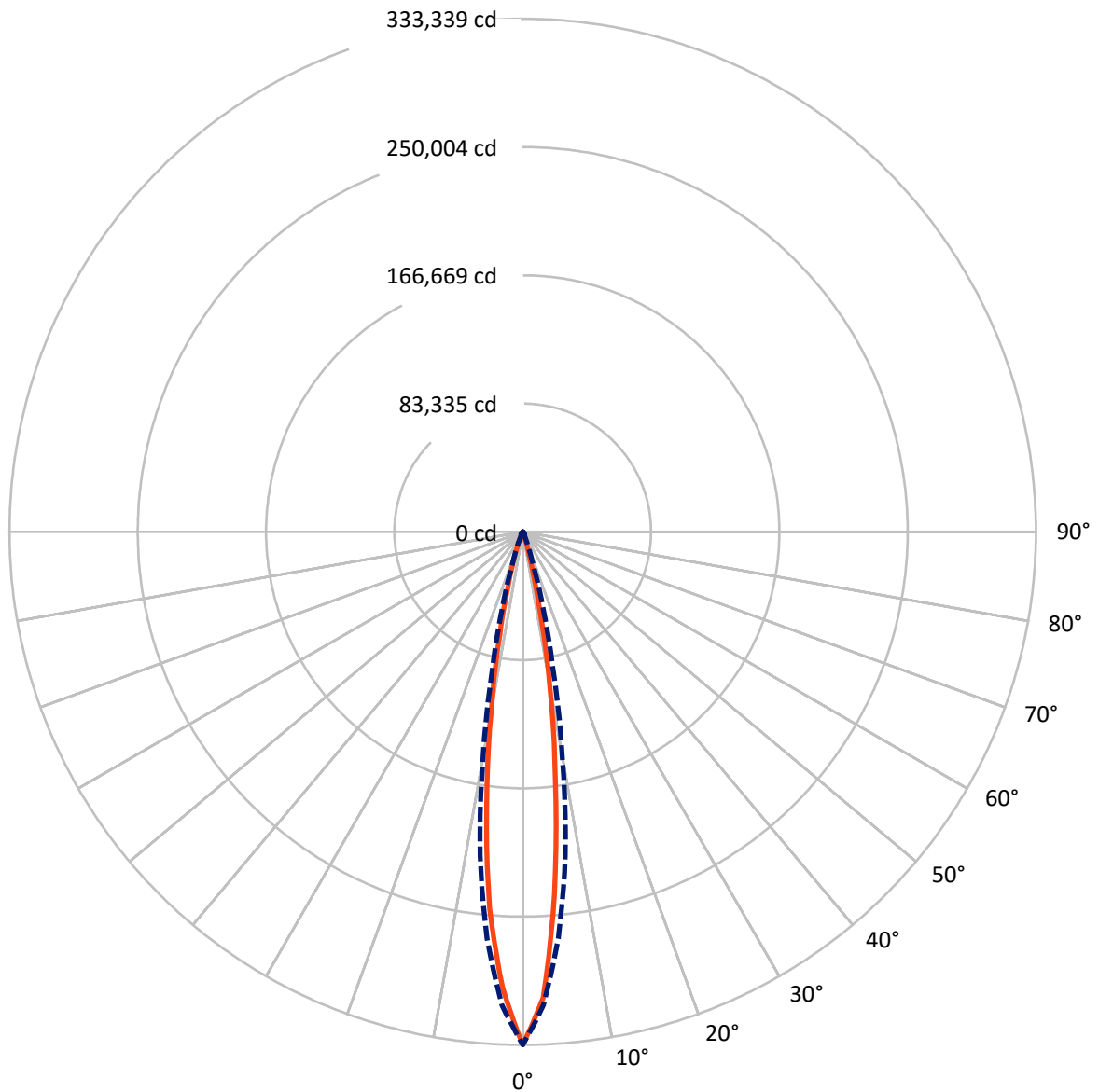
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### Lumen Table

90	0.1		0.2		0.4		0.4		0.5		0.4		0.4		0.2		0.1	
80	0.1		0.2		0.4		0.4		0.5		0.4		0.4		0.2		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	0.2	0.1	0.3	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.1	0.2	0.2	0.2
40		0.2	0.4	0.5	0.9	1.3	1.3	1.5	1.5	1.3	1.3	0.9	0.5	0.4	0.2			
30	0.2	0.3	0.9	2.0	3.8	4.3	6.2	12.4	12.4	6.2	4.3	3.8	2.0	0.9	0.3	0.2	0.2	0.2
20		0.7	2.8	9.4	17.4	23.2	171.8	715.6	715.6	171.8	23.2	17.4	9.4	2.8	0.7			
10	0.2	1.1	5.5	23.5	38.1	86.7	1260.6	5462.4	5462.4	1260.6	86.7	38.1	23.5	5.5	1.1	0.2	0.2	0.2
0		1.4	6.4	27.1	44.7	88.8	1352.9	5709.5	5709.5	1352.9	88.8	44.7	27.1	6.4	1.4			
-10	0.3	1.5	5.6	20.5	36.9	40.6	288.5	1120.7	1120.7	288.5	40.6	36.9	20.5	5.6	1.5	0.3	0.3	0.3
-20		1.4	4.8	11.5	29.7	34.3	37.9	73.8	73.8	37.9	34.3	29.7	11.5	4.8	1.4			
-30	0.3	1.3	4.1	7.3	18.2	34.3	40.1	40.5	40.5	40.1	34.3	18.2	7.3	4.1	1.3	0.3	0.3	0.3
-40		0.9	3.1	6.3	9.9	17.3	29.2	38.4	38.4	29.2	17.3	9.9	6.3	3.1	0.9			
-50	0.2	0.4	1.7	4.1	7.4	10.2	12.0	13.4	13.4	12.0	10.2	7.4	4.1	1.7	0.4	0.2	0.2	0.2
-60		0.2	0.6	1.7	3.2	5.1	6.7	7.9	7.9	6.7	5.1	3.2	1.7	0.6	0.2			
-70	0.1	0.6	1.5	3.6	6.0	3.6	1.5	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	1.5	3.6	6.0	3.6	1.5	0.6									
-90	0.1		0.6		1.5		3.6		6.0		3.6		1.5		0.6		0.1	

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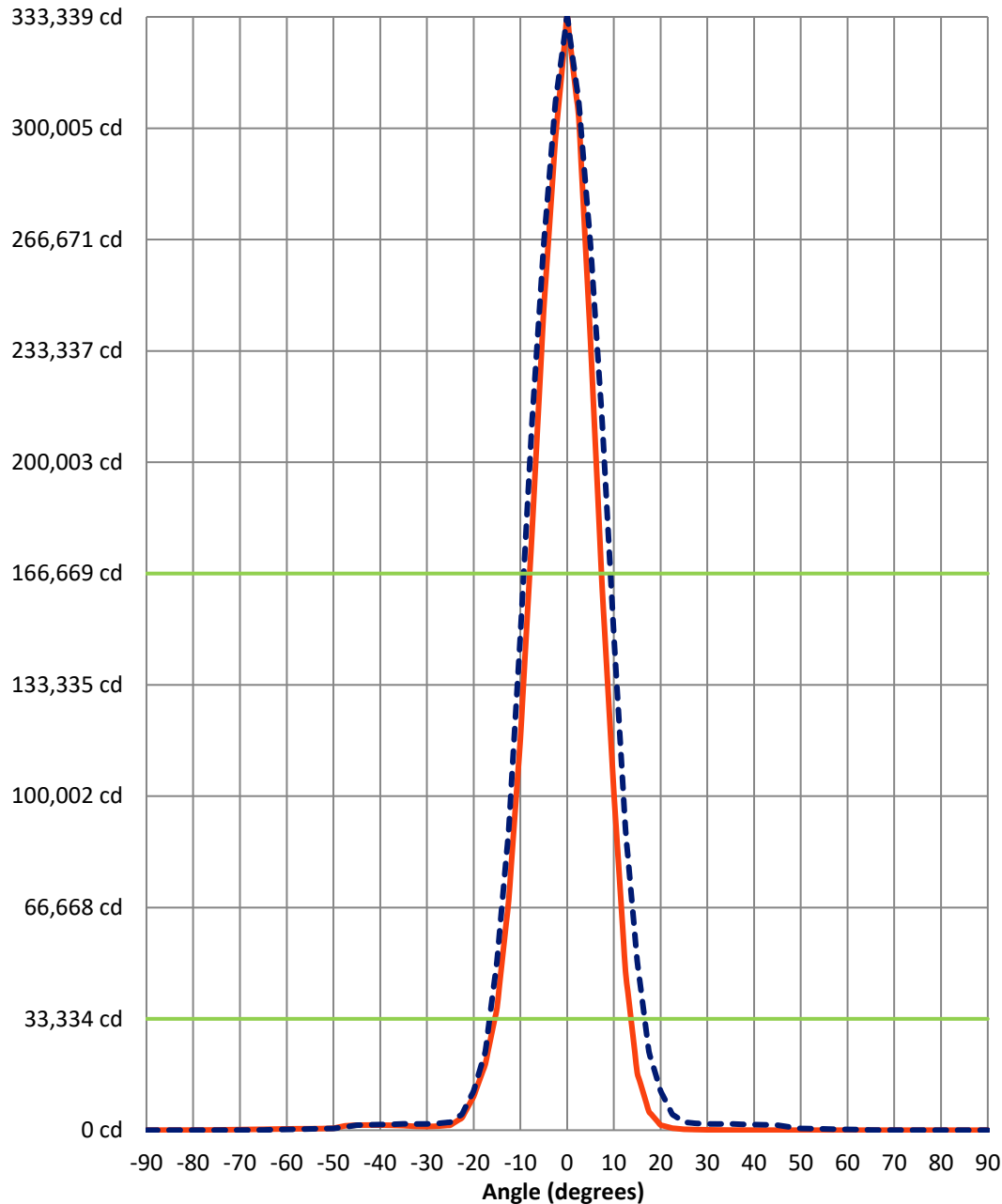
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 18.6°  
V Angle: 15.4°  
Lumens: 15805.1  
Efficiency: 46.1%

**Field:**  
H Angle: 33.2°  
V Angle: 29.1°  
Lumens: 29158.7  
Efficiency: 85.1%

**Spill:**  
Lumens: 5111.6  
Efficiency: 14.9%

— 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°	4.2	4.2	4.2	4.4	4.7	4.9	5.1	5.1	5.1	5.1	5.1
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	4.2	4.2	4.2	4.2	4.2	4.3	4.2	4.2	4.2	4.3	4.2
72.5°	4.2	4.2	4.2	4.2	4.4	4.5	4.3	4.3	4.4	4.4	4.3
70°	4.2	4.2	4.2	4.2	4.5	4.6	4.4	4.5	4.6	4.5	4.6
67.5°	4.2	4.2	4.2	4.4	4.7	4.7	4.6	4.7	4.8	4.9	5.0
65°	4.2	4.2	4.2	4.6	4.9	4.9	4.9	4.9	5.1	5.2	5.3
62.5°	4.2	4.2	4.2	4.7	5.1	5.1	5.1	5.2	5.4	5.5	5.4
60°	4.2	4.2	4.2	4.9	5.3	5.3	5.4	5.4	5.6	5.7	5.6
57.5°	4.2	4.2	4.3	5.1	5.4	5.6	5.7	5.7	5.9	5.9	5.9
55°	4.2	4.2	4.4	5.3	5.6	5.8	6.0	6.0	6.2	6.2	6.3
52.5°	4.2	4.2	4.5	5.5	5.8	6.0	6.3	6.4	6.5	6.6	6.7
50°	4.2	4.2	4.6	5.7	5.9	6.3	6.6	6.8	6.8	6.9	7.7
47.5°	4.2	4.2	4.7	5.8	6.1	6.5	6.9	7.2	7.1	7.3	8.8
45°	4.2	4.2	4.8	6.0	6.3	6.8	7.4	7.7	7.6	8.1	9.8
42.5°	4.2	4.2	4.9	6.1	6.4	7.1	7.8	8.2	8.2	9.0	10.8
40°	4.2	4.2	5.0	6.1	6.6	7.4	8.3	8.8	8.9	9.8	11.7
37.5°	4.2	4.2	5.0	6.2	6.9	7.7	8.7	9.3	9.9	10.9	12.4
35°	4.2	4.2	5.1	6.2	7.1	8.1	9.2	10.0	10.8	12.1	12.9
32.5°	4.2	4.2	5.1	6.2	7.3	8.5	9.7	10.6	11.8	13.4	14.3
30°	4.2	4.2	5.2	6.2	7.6	8.9	10.3	11.3	12.7	14.8	15.9
27.5°	4.2	4.2	5.2	6.2	7.6	9.3	10.8	12.1	13.7	16.3	17.7
25°	4.2	4.2	5.2	6.2	7.7	9.7	11.4	12.9	14.9	17.9	19.7
22.5°	4.2	4.2	5.2	6.2	7.6	10.0	11.9	13.6	16.2	19.5	22.7
20°	4.2	4.2	5.2	6.2	7.6	9.9	12.5	14.3	17.5	21.2	26.0
17.5°	4.2	4.2	5.2	6.2	7.6	9.9	12.6	15.0	18.7	22.9	29.4
15°	4.2	4.2	5.2	6.2	7.5	9.8	12.4	15.3	20.0	24.7	32.9
12.5°	4.2	4.2	5.2	6.1	7.4	9.6	12.1	15.1	20.6	26.5	36.5
10°	4.2	4.2	5.2	6.1	7.3	9.4	11.8	14.9	20.6	27.3	40.0
7.5°	4.2	4.2	5.2	6.1	7.2	9.2	11.5	14.6	20.4	28.0	43.1
5°	4.2	4.2	5.2	6.0	7.1	9.0	11.1	14.3	20.2	28.7	46.2
2.5°	4.2	4.2	5.1	6.0	6.9	8.8	10.6	14.0	19.9	29.3	49.1
0°	4.2	4.2	5.1	5.9	6.8	8.5	10.2	13.6	19.5	29.7	51.7
-2.5°	4.2	4.2	5.1	5.9	6.9	8.6	10.6	15.0	23.0	35.6	59.8
-5°	4.2	4.2	5.1	5.9	6.9	8.6	11.1	16.4	26.3	41.1	67.2
-7.5°	4.2	4.3	5.1	5.9	7.0	8.7	11.4	17.6	29.3	46.2	74.1
-10°	4.2	4.3	5.1	5.9	7.0	8.7	11.7	18.7	31.9	50.8	80.1
-12.5°	4.2	4.3	5.1	5.8	7.0	8.7	12.0	19.5	34.1	54.9	85.8
-15°	4.2	4.3	5.1	5.8	7.0	8.7	12.1	20.1	36.3	59.1	90.8
-17.5°	4.2	4.3	5.0	5.8	7.0	8.7	12.2	21.1	38.6	62.6	94.7
-20°	4.2	4.3	5.0	5.8	7.0	8.7	12.3	22.1	40.3	65.3	97.4



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-CV5

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.2	4.4	5.0	5.7	7.0	8.6	12.7	22.7	41.3	67.2	98.8
-25°	4.2	4.4	5.0	5.7	6.9	8.7	12.8	22.8	41.6	68.3	99.0
-27.5°	4.2	4.4	5.0	5.6	6.8	8.8	12.7	22.3	41.0	68.5	99.8
-30°	4.2	4.4	5.0	5.6	6.7	8.8	12.4	21.3	40.2	67.7	99.5
-32.5°	4.2	4.4	5.0	5.5	6.7	8.8	11.8	20.7	39.0	65.8	98.1
-35°	4.2	4.4	5.0	5.5	6.6	8.8	11.6	20.0	36.9	62.7	95.5
-37.5°	4.2	4.4	5.0	5.4	6.6	8.7	11.5	18.9	33.9	58.5	88.3
-40°	4.2	4.4	4.9	5.3	6.5	8.6	11.3	17.4	30.0	54.0	79.9
-42.5°	4.2	4.4	4.9	5.3	6.5	8.5	11.1	15.6	27.1	47.4	70.8
-45°	4.2	4.4	4.9	5.3	6.4	8.3	10.7	14.1	24.5	40.0	61.1
-47.5°	4.2	4.4	4.9	5.3	6.4	8.1	10.3	13.6	21.4	32.1	52.2
-50°	4.2	4.4	4.9	5.3	6.4	7.9	10.0	13.0	17.4	27.6	42.6
-52.5°	4.2	4.4	5.0	5.3	6.3	7.7	9.7	12.4	15.5	22.9	33.0
-55°	4.2	4.4	5.0	5.3	6.2	7.5	9.4	11.6	14.4	17.9	27.4
-57.5°	4.2	4.4	5.0	5.3	6.1	7.4	9.0	11.1	13.2	15.8	21.4
-60°	4.2	4.4	5.0	5.3	6.0	7.2	8.6	10.5	12.2	14.4	16.8
-62.5°	4.2	4.4	4.9	5.3	6.0	7.0	8.4	9.9	11.4	13.1	15.3
-65°	4.2	4.4	4.9	5.3	5.9	6.8	8.1	9.3	10.7	12.1	13.7
-67.5°	4.2	4.4	4.8	5.3	5.8	6.6	7.8	8.9	9.9	11.3	12.6
-70°	4.2	4.3	4.8	5.3	5.7	6.4	7.4	8.5	9.4	10.4	11.6
-72.5°	4.2	4.3	4.7	5.2	5.6	6.2	7.1	8.0	8.9	9.8	10.7
-75°	4.2	4.3	4.6	5.1	5.5	6.0	6.7	7.5	8.4	9.2	10.0
-77.5°	4.2	4.3	4.6	5.0	5.4	5.8	6.3	7.0	7.8	8.6	9.4
-80°	4.2	4.3	4.5	4.9	5.2	5.6	5.9	6.5	7.1	7.7	8.5
-82.5°	4.2	4.3	4.4	4.8	5.1	5.4	5.7	6.0	6.4	6.9	7.4
-85°	4.2	4.2	4.4	4.7	4.9	5.2	5.5	5.7	5.9	6.2	6.5
-87.5°	4.2	4.2	4.3	4.5	4.8	5.1	5.3	5.4	5.5	5.7	5.8
-90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2





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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°	5.1	5.1	5.1	5.1	5.3	5.5	5.7	5.9	5.9	5.9	5.9
87.5°	4.0	3.8	3.6	3.4	3.2	3.0	2.7	2.5	2.5	2.5	2.5
85°	4.0	3.8	3.6	3.4	3.2	3.1	3.0	2.9	2.8	2.7	2.6
82.5°	4.0	3.8	3.6	3.4	3.4	3.4	3.4	3.4	3.2	3.0	2.7
80°	4.0	3.8	3.7	3.7	3.7	3.6	3.6	3.4	3.2	3.0	2.9
77.5°	4.1	4.0	4.0	4.1	4.1	3.9	3.9	3.8	3.8	3.7	3.6
75°	4.2	4.2	4.3	4.2	4.2	4.1	4.2	4.2	4.1	4.1	4.1
72.5°	4.3	4.5	4.4	4.3	4.2	4.2	4.2	4.2	4.7	5.5	6.1
70°	4.7	4.8	4.6	4.3	4.2	4.5	5.4	6.6	7.8	8.9	10.4
67.5°	5.0	4.8	4.6	4.5	5.2	6.3	7.7	10.8	14.5	16.1	16.8
65°	5.1	4.9	5.1	5.7	6.7	8.9	12.3	16.7	21.4	22.3	21.8
62.5°	5.1	5.3	5.9	7.1	8.9	11.9	16.2	21.2	26.6	26.7	23.3
60°	5.5	5.8	7.1	9.1	11.2	14.6	19.5	23.3	27.3	28.8	22.0
57.5°	5.9	6.8	8.8	11.2	13.9	16.3	19.0	22.7	24.2	24.2	17.8
55°	6.7	8.2	10.7	13.6	15.6	15.1	16.9	18.2	18.4	17.2	12.4
52.5°	8.0	9.8	12.9	15.4	15.8	14.3	13.2	13.9	13.0	11.1	9.7
50°	9.3	11.8	14.9	16.5	15.6	12.8	10.6	10.6	10.0	9.2	8.3
47.5°	10.8	13.6	16.6	17.3	14.3	12.2	10.2	9.5	9.1	8.7	7.9
45°	12.1	14.9	18.1	16.2	13.9	12.7	11.1	9.3	9.3	9.1	9.0
42.5°	13.3	16.0	17.3	15.2	14.9	13.9	12.6	10.9	10.2	10.6	10.9
40°	14.0	16.7	16.6	16.6	16.3	15.8	14.8	13.5	12.1	13.0	13.5
37.5°	14.6	16.6	17.1	19.0	18.3	18.2	17.5	17.7	16.7	16.2	18.2
35°	14.9	17.0	19.9	22.1	21.8	21.1	22.2	22.8	22.5	21.9	25.0
32.5°	15.3	17.9	23.5	25.9	26.7	26.3	27.6	29.0	30.4	32.0	37.1
30°	17.0	21.1	27.5	30.1	32.8	35.8	35.1	36.2	39.9	51.9	63.2
27.5°	20.2	25.4	31.6	35.8	40.5	47.6	49.1	47.3	58.8	78.0	98.1
25°	23.9	38.2	36.0	42.5	52.0	61.7	67.0	71.1	87.0	115.1	136.0
22.5°	31.2	55.2	54.8	49.9	64.9	78.1	90.8	118.9	158.8	171.6	175.8
20°	43.6	72.1	77.5	79.2	84.3	96.3	117.9	184.0	263.9	294.0	261.8
17.5°	58.3	90.7	102.4	115.3	131.0	134.6	153.0	262.4	394.6	439.8	440.0
15°	74.7	110.5	128.9	155.0	180.9	197.2	258.2	390.4	536.0	607.6	648.5
12.5°	92.2	131.3	156.6	197.4	233.2	261.9	394.9	605.8	741.2	803.7	923.0
10°	110.3	152.7	185.0	241.7	287.2	327.8	548.7	835.6	967.5	1028.7	1165.0
7.5°	128.3	172.7	212.7	286.7	342.0	394.2	712.4	1073.1	1185.9	1240.5	1351.5
5°	145.7	190.4	234.7	320.9	385.3	448.6	860.9	1309.6	1397.5	1441.5	1504.2
2.5°	161.6	207.2	255.7	351.7	420.1	482.9	925.5	1413.5	1509.9	1575.9	1629.3
0°	175.5	223.0	275.6	379.9	452.8	514.7	972.6	1499.2	1600.9	1679.8	1744.2
-2.5°	176.2	226.3	282.1	378.7	445.5	509.6	927.6	1479.8	1632.1	1750.5	1847.1
-5°	174.5	228.3	286.9	375.0	436.5	502.0	868.4	1433.3	1638.5	1764.5	1863.2
-7.5°	171.1	228.8	289.7	368.4	423.1	482.7	816.6	1338.4	1564.4	1672.3	1777.1
-10°	166.5	227.5	285.6	353.1	403.8	456.0	750.8	1228.0	1488.5	1581.2	1678.5
-12.5°	162.6	224.8	279.4	338.0	384.3	428.7	664.7	1106.6	1413.2	1494.0	1571.7
-15°	157.9	221.3	272.5	323.9	364.9	401.2	557.2	978.2	1339.7	1430.4	1490.5
-17.5°	152.9	217.1	265.0	311.6	346.1	373.8	430.0	823.8	1217.3	1355.5	1425.8
-20°	148.0	212.2	257.2	301.6	328.5	354.5	392.2	666.6	1026.3	1265.1	1354.8



REPORT NUMBER: P731332 (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°	143.4	206.8	249.5	291.4	319.0	342.2	372.2	513.6	824.7	1162.8	1271.1
-25°	141.7	198.4	241.9	281.5	312.0	330.5	351.7	385.0	638.4	959.8	1177.0
-27.5°	141.2	191.5	233.1	271.1	306.5	320.5	336.8	362.2	492.0	751.5	1060.9
-30°	139.0	181.5	223.3	260.2	295.8	314.9	325.1	345.1	380.0	579.4	833.2
-32.5°	132.6	170.9	211.7	248.5	283.2	311.5	319.4	336.2	361.9	418.9	624.9
-35°	124.6	160.9	199.1	236.0	270.2	301.7	319.3	329.3	346.4	373.6	466.1
-37.5°	117.0	150.1	186.0	222.2	255.7	287.6	318.3	327.1	338.6	358.0	393.2
-40°	108.1	138.7	173.2	207.6	240.0	271.5	301.7	327.4	334.3	353.9	378.6
-42.5°	98.1	127.6	160.0	192.1	222.4	253.3	283.8	312.5	339.4	352.9	371.9
-45°	87.0	115.1	146.0	174.8	203.1	233.3	263.0	292.9	327.7	358.9	371.7
-47.5°	75.0	101.4	130.3	156.2	182.5	210.6	240.3	271.8	306.8	341.4	377.2
-50°	62.7	87.1	112.2	136.7	160.9	186.6	214.0	247.1	280.5	315.1	349.8
-52.5°	51.4	71.8	94.3	116.8	139.1	161.7	187.9	217.9	250.1	283.3	314.1
-55°	39.4	57.7	76.0	96.7	117.6	137.6	160.8	187.9	215.8	246.4	274.3
-57.5°	30.6	43.3	59.2	76.1	95.4	114.8	135.9	157.5	182.3	208.0	231.1
-60°	23.7	31.9	43.3	57.7	72.4	90.8	110.7	130.4	150.4	169.2	188.9
-62.5°	17.4	24.0	31.2	40.3	53.2	66.8	83.8	101.9	120.1	136.1	150.4
-65°	15.7	17.5	22.6	28.9	35.0	47.0	59.8	72.6	88.3	102.3	115.4
-67.5°	14.0	15.6	17.2	19.7	25.4	31.7	38.2	49.4	60.5	70.3	80.0
-70°	12.7	13.7	15.1	16.5	18.1	20.9	26.5	32.1	37.9	44.7	53.2
-72.5°	11.6	12.5	13.4	14.2	15.6	17.1	18.7	20.4	23.8	28.3	32.9
-75°	10.7	11.3	12.1	12.9	13.7	14.6	15.6	17.0	18.3	19.5	20.5
-77.5°	9.9	10.3	10.9	11.5	12.1	12.8	13.6	14.4	15.2	16.1	17.1
-80°	8.9	9.3	9.6	10.0	10.5	11.0	11.5	12.1	12.5	12.9	13.5
-82.5°	7.8	8.0	8.3	8.6	8.9	9.1	9.4	9.7	9.9	10.0	10.2
-85°	6.7	6.8	7.0	7.2	7.3	7.5	7.7	7.8	7.8	7.7	7.6
-87.5°	5.9	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.4	6.2	6.1
-90°	4.0	3.8	3.6	3.4	3.2	3.0	2.7	2.5	2.5	2.5	2.5



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	5.9	5.9	5.9	5.9	5.9	8.2	10.6	12.9	15.3	21.0	26.7
87.5°	2.5	2.3	2.1	1.9	1.7	1.5	1.3	1.0	0.8	0.8	0.8
85°	2.5	2.3	2.1	1.9	1.7	1.7	1.6	1.6	1.6	1.4	1.2
82.5°	2.5	2.4	2.3	2.3	2.3	2.2	2.0	1.9	1.7	1.5	1.3
80°	2.8	2.8	2.7	2.6	2.5	2.3	2.1	1.9	1.7	1.7	1.7
77.5°	3.5	3.4	3.1	2.9	2.6	2.4	2.4	2.4	2.4	2.2	2.1
75°	4.1	4.1	4.0	3.8	3.4	3.3	3.4	3.3	3.2	3.1	2.9
72.5°	6.7	6.8	6.5	6.2	5.8	5.6	5.6	5.5	5.4	5.3	5.3
70°	11.2	11.4	11.0	10.1	8.9	8.0	7.6	7.2	6.8	6.8	7.3
67.5°	16.3	15.1	13.9	12.5	10.7	9.3	8.7	8.0	7.2	6.8	6.6
65°	19.7	15.6	13.3	11.7	10.7	9.7	8.6	7.6	6.7	6.0	5.7
62.5°	18.8	13.3	10.9	9.8	8.9	8.2	7.1	6.1	5.3	4.7	4.7
60°	16.1	11.1	8.5	7.6	6.8	5.9	5.4	4.9	4.5	4.3	4.5
57.5°	12.6	8.8	6.7	6.4	5.9	5.4	5.0	4.8	4.5	4.2	4.5
55°	9.2	7.7	6.8	6.6	6.3	6.0	5.7	5.3	5.0	4.8	4.9
52.5°	8.0	7.5	7.4	7.3	6.8	6.3	5.9	5.8	5.7	5.6	5.7
50°	7.7	7.7	7.7	7.5	7.1	6.8	6.7	6.7	6.6	6.5	6.5
47.5°	7.9	8.1	8.0	7.6	7.5	7.7	7.6	7.5	7.7	7.8	8.0
45°	8.7	9.0	9.1	9.2	8.9	9.2	9.2	9.2	10.6	10.7	10.1
42.5°	10.6	11.7	12.5	12.2	11.2	13.4	16.7	18.2	16.7	14.6	13.1
40°	15.1	16.5	17.1	18.2	22.7	26.1	23.0	19.8	18.5	19.6	20.5
37.5°	21.1	22.9	28.3	35.2	32.7	26.6	27.3	27.5	26.9	28.7	29.0
35°	30.8	39.6	46.0	44.0	40.9	40.3	41.8	42.2	38.2	40.0	40.7
32.5°	49.4	60.1	60.5	57.9	59.4	59.6	63.8	61.0	57.5	59.2	64.0
30°	71.4	81.9	85.7	80.9	71.9	76.9	81.2	79.9	82.3	89.6	97.3
27.5°	105.7	112.5	118.9	109.0	91.2	99.1	102.1	99.0	115.9	125.0	143.0
25°	146.6	154.4	159.3	151.1	138.8	132.5	142.1	149.3	169.9	190.0	218.3
22.5°	191.2	212.0	217.8	196.4	196.4	196.3	200.0	224.5	252.3	296.7	371.2
20°	243.2	284.4	317.3	295.5	267.6	286.4	309.8	339.9	419.0	620.4	849.2
17.5°	427.3	398.4	459.0	461.1	420.8	464.9	548.8	656.8	990.8	2017.8	2691.0
15°	727.1	696.7	658.9	660.9	700.6	787.1	958.7	1556.8	3032.0	5223.9	7489.2
12.5°	1033.1	987.5	932.0	917.3	1004.0	1178.0	1988.1	4448.9	7922.5	11705.2	21408.6
10°	1274.7	1250.4	1199.2	1237.4	1382.2	1893.3	3550.1	7818.1	14985.9	27517.9	42981.1
7.5°	1416.4	1407.1	1420.9	1533.2	1769.3	3114.9	6757.6	13101.8	24913.4	43904.1	71762.5
5°	1558.7	1566.4	1608.3	1762.7	2064.9	3962.1	9537.5	18206.6	36072.9	63988.1	107128.8
2.5°	1716.3	1723.4	1779.7	1974.1	2319.9	4094.5	10199.1	21457.6	45737.3	82318.6	139504.4
0°	1897.7	1857.0	1874.0	2051.2	2408.2	4775.6	11770.3	23530.4	50619.6	89932.7	148259.3
-2.5°	1962.1	1875.0	1859.1	2008.8	2321.7	4232.0	10514.3	21881.0	46493.0	82389.6	138247.1
-5°	1918.4	1799.4	1751.8	1874.3	2171.3	3710.9	8840.9	19910.2	41278.7	70480.3	117145.1
-7.5°	1809.8	1695.7	1625.5	1717.7	1977.0	3057.8	6772.0	15077.3	30046.1	52147.8	83217.2
-10°	1716.5	1607.1	1500.2	1529.7	1709.3	2276.1	4215.9	9875.9	19851.0	35201.2	52907.2
-12.5°	1635.7	1544.1	1384.0	1335.3	1436.0	1702.0	2942.4	6731.3	12697.6	19968.4	32380.0
-15°	1552.2	1477.1	1317.2	1240.2	1276.1	1405.7	1741.7	3233.1	6952.6	11834.7	17181.5
-17.5°	1459.6	1408.0	1311.9	1198.1	1149.5	1201.6	1362.1	1822.7	3089.7	6132.3	9466.2
-20°	1396.8	1368.2	1297.5	1197.7	1135.2	1111.1	1166.8	1307.9	1619.0	2785.2	4221.4



REPORT NUMBER: P731332 (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°	1318.2	1306.3	1258.6	1230.0	1184.3	1132.7	1083.8	1127.6	1230.9	1389.8	1886.1
-25°	1243.8	1246.7	1249.8	1287.4	1280.0	1207.9	1115.3	1048.9	1083.7	1133.5	1234.0
-27.5°	1161.5	1202.4	1265.8	1336.6	1369.4	1308.3	1199.2	1099.8	1070.2	1041.1	1083.5
-30°	1089.2	1172.4	1240.3	1326.8	1383.5	1365.3	1309.0	1242.0	1169.4	1118.9	1102.3
-32.5°	902.6	1133.3	1196.1	1265.7	1350.3	1377.3	1370.8	1345.1	1314.0	1278.5	1241.6
-35°	701.5	957.6	1168.2	1208.2	1263.6	1343.4	1406.3	1410.6	1406.6	1393.5	1383.7
-37.5°	495.4	739.2	961.1	1139.3	1205.7	1258.9	1355.1	1428.7	1470.5	1467.2	1468.2
-40°	411.4	478.6	701.8	907.8	1060.4	1202.7	1279.5	1375.8	1452.3	1483.5	1507.3
-42.5°	396.9	422.9	449.6	604.1	800.6	972.8	1105.2	1227.4	1335.5	1412.5	1473.7
-45°	386.6	404.3	424.5	450.1	477.8	631.6	802.7	961.8	1065.8	1169.8	1278.4
-47.5°	386.2	390.5	404.9	422.9	440.5	465.5	494.1	532.9	647.9	752.4	862.7
-50°	374.7	392.2	397.0	402.5	413.7	427.4	440.9	454.9	468.0	476.3	487.5
-52.5°	340.7	363.2	384.3	400.8	405.1	409.2	413.1	422.2	431.0	438.3	446.6
-55°	299.5	323.4	346.7	365.6	382.7	398.8	410.8	412.8	415.4	418.6	423.7
-57.5°	254.9	278.2	300.2	320.1	338.8	356.1	368.6	377.9	386.6	394.9	405.6
-60°	209.1	229.6	249.7	269.0	287.4	305.0	316.5	325.9	334.1	342.2	353.3
-62.5°	164.2	180.0	198.1	215.5	231.5	246.6	258.5	268.6	277.0	285.5	295.8
-65°	127.7	139.4	152.9	165.5	177.3	191.3	204.2	214.8	223.2	231.6	240.8
-67.5°	91.2	102.0	114.6	126.3	137.3	148.0	158.8	168.9	178.4	187.9	197.4
-70°	60.9	68.6	77.7	87.7	98.0	107.7	116.9	125.8	134.2	142.7	150.8
-72.5°	37.7	42.5	47.6	54.2	61.2	67.9	74.5	81.1	87.6	95.2	102.8
-75°	21.5	23.4	27.3	31.0	34.5	37.8	40.6	43.0	45.0	49.5	54.4
-77.5°	18.1	19.0	20.0	21.0	22.1	23.5	25.0	26.6	28.2	31.8	35.8
-80°	14.1	14.7	15.4	16.1	16.9	18.0	19.0	20.1	21.0	23.7	26.5
-82.5°	10.4	10.7	11.0	11.3	11.5	12.3	13.2	14.0	14.8	17.0	19.2
-85°	7.6	7.7	7.8	7.9	8.0	8.7	9.4	10.1	10.8	13.0	15.2
-87.5°	5.9	5.9	5.9	5.9	5.9	6.7	7.4	8.1	8.7	11.1	13.3
-90°	2.5	2.3	2.1	1.9	1.7	1.5	1.3	1.0	0.8	0.8	0.8



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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°	32.5	38.2	32.2	26.3	32.2	38.2	32.5	26.7	21.0	15.3	12.9
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0
85°	1.0	0.8	0.8	0.8	0.8	0.8	1.0	1.2	1.4	1.6	1.6
82.5°	1.0	0.8	1.2	1.7	1.2	0.8	1.0	1.3	1.5	1.7	1.9
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9
77.5°	1.9	1.7	1.7	1.7	1.7	1.7	1.9	2.1	2.2	2.4	2.4
75°	2.7	2.5	2.5	2.5	2.5	2.5	2.7	2.9	3.1	3.2	3.3
72.5°	5.2	5.0	5.1	5.1	5.1	5.0	5.2	5.3	5.3	5.4	5.5
70°	7.8	8.3	8.5	8.5	8.5	8.3	7.8	7.3	6.8	6.8	7.2
67.5°	6.3	6.0	5.9	5.9	5.9	6.0	6.3	6.6	6.8	7.2	8.0
65°	5.4	5.2	5.1	5.1	5.1	5.2	5.4	5.7	6.0	6.7	7.6
62.5°	4.8	5.0	5.1	5.1	5.1	5.0	4.8	4.7	4.7	5.3	6.1
60°	4.8	5.0	5.1	5.1	5.1	5.0	4.8	4.5	4.3	4.5	4.9
57.5°	4.8	5.0	5.1	5.1	5.1	5.0	4.8	4.5	4.2	4.5	4.8
55°	5.0	5.1	5.4	5.9	5.4	5.1	5.0	4.9	4.8	5.0	5.3
52.5°	5.8	5.8	5.9	5.9	5.9	5.8	5.8	5.7	5.6	5.7	5.8
50°	6.7	6.7	6.8	6.8	6.8	6.7	6.7	6.5	6.5	6.6	6.7
47.5°	8.2	8.4	8.5	8.5	8.5	8.4	8.2	8.0	7.8	7.7	7.5
45°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.1	10.7	10.6	9.2
42.5°	13.6	14.0	14.3	14.4	14.3	14.0	13.6	13.1	14.6	16.7	18.2
40°	21.5	21.9	21.6	21.2	21.6	21.9	21.5	20.5	19.6	18.5	19.8
37.5°	29.3	29.9	30.3	30.5	30.3	29.9	29.3	29.0	28.7	26.9	27.5
35°	41.1	41.6	41.3	42.4	41.3	41.6	41.1	40.7	40.0	38.2	42.2
32.5°	67.0	67.4	65.3	66.1	65.3	67.4	67.0	64.0	59.2	57.5	61.0
30°	102.6	107.3	110.2	113.6	110.2	107.3	102.6	97.3	89.6	82.3	79.9
27.5°	156.2	167.8	175.4	179.8	175.4	167.8	156.2	143.0	125.0	115.9	99.0
25°	244.0	261.5	270.9	278.1	270.9	261.5	244.0	218.3	190.0	169.9	149.3
22.5°	473.9	541.0	578.5	613.9	578.5	541.0	473.9	371.2	296.7	252.3	224.5
20°	1215.2	1293.5	1441.0	1532.2	1441.0	1293.5	1215.2	849.2	620.4	419.0	339.9
17.5°	4093.7	5219.1	5429.2	5587.9	5429.2	5219.1	4093.7	2691.0	2017.8	990.8	656.8
15°	12191.2	15531.3	16430.3	17195.4	16430.3	15531.3	12191.2	7489.2	5223.9	3032.0	1556.8
12.5°	29434.8	38627.7	43627.9	47426.7	43627.9	38627.7	29434.8	21408.6	11705.2	7922.5	4448.9
10°	61670.1	79667.8	93328.1	101239.2	93328.1	79667.8	61670.1	42981.1	27517.9	14985.9	7818.1
7.5°	105021.7	135526.3	153358.1	162434.8	153358.1	135526.3	105021.7	71762.5	43904.1	24913.4	13101.8
5°	158402.1	197780.6	222666.8	236351.1	222666.8	197780.6	158402.1	107128.8	63988.1	36072.9	18206.6
2.5°	197859.3	248378.1	285681.8	303228.7	285681.8	248378.1	197859.3	139504.4	82318.6	45737.3	21457.6
0°	212146.2	265148.1	307791.9	333338.7	307791.9	265148.1	212146.2	148259.3	89932.7	50619.6	23530.4
-2.5°	198507.6	248264.9	281478.6	296934.4	281478.6	248264.9	198507.6	138247.1	82389.6	46493.0	21881.0
-5°	168802.6	211821.3	235689.4	245792.9	235689.4	211821.3	168802.6	117145.1	70480.3	41278.7	19910.2
-7.5°	119762.4	152577.4	169353.0	179304.9	169353.0	152577.4	119762.4	83217.2	52147.8	30046.1	15077.3
-10°	75402.0	93849.3	109896.1	117155.1	109896.1	93849.3	75402.0	52907.2	35201.2	19851.0	9875.9
-12.5°	43789.6	55468.8	64858.0	68846.5	64858.0	55468.8	43789.6	32380.0	19968.4	12697.6	6731.3
-15°	24199.3	30581.7	34904.5	36595.5	34904.5	30581.7	24199.3	17181.5	11834.7	6952.6	3233.1
-17.5°	13456.7	16553.8	17782.5	19752.8	17782.5	16553.8	13456.7	9466.2	6132.3	3089.7	1822.7
-20°	6592.6	8198.5	8713.4	10103.2	8713.4	8198.5	6592.6	4221.4	2785.2	1619.0	1307.9



REPORT NUMBER: P731332 (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°	2560.8	2939.8	3024.3	3683.5	3024.3	2939.8	2560.8	1886.1	1389.8	1230.9	1127.6
-25°	1329.9	1393.8	1423.5	1500.9	1423.5	1393.8	1329.9	1234.0	1133.5	1083.7	1048.9
-27.5°	1117.9	1148.9	1173.6	1210.9	1173.6	1148.9	1117.9	1083.5	1041.1	1070.2	1099.8
-30°	1089.5	1084.1	1084.8	1088.8	1084.8	1084.1	1089.5	1102.3	1118.9	1169.4	1242.0
-32.5°	1212.3	1193.4	1184.1	1149.0	1184.1	1193.4	1212.3	1241.6	1278.5	1314.0	1345.1
-35°	1377.7	1376.1	1377.3	1360.9	1377.3	1376.1	1377.7	1383.7	1393.5	1406.6	1410.6
-37.5°	1468.6	1471.3	1474.5	1469.5	1474.5	1471.3	1468.6	1468.2	1467.2	1470.5	1428.7
-40°	1515.5	1523.2	1528.5	1527.1	1528.5	1523.2	1515.5	1507.3	1483.5	1452.3	1375.8
-42.5°	1504.2	1523.1	1532.5	1535.6	1532.5	1523.1	1504.2	1473.7	1412.5	1335.5	1227.4
-45°	1377.8	1455.0	1501.5	1514.4	1501.5	1455.0	1377.8	1278.4	1169.8	1065.8	961.8
-47.5°	986.9	1101.2	1208.3	1302.4	1208.3	1101.2	986.9	862.7	752.4	647.9	532.9
-50°	501.4	514.3	540.7	579.1	540.7	514.3	501.4	487.5	476.3	468.0	454.9
-52.5°	454.8	462.2	469.6	476.5	469.6	462.2	454.8	446.6	438.3	431.0	422.2
-55°	428.5	433.1	436.5	439.2	436.5	433.1	428.5	423.7	418.6	415.4	412.8
-57.5°	414.8	422.4	428.9	434.1	428.9	422.4	414.8	405.6	394.9	386.6	377.9
-60°	363.0	371.3	379.2	385.8	379.2	371.3	363.0	353.3	342.2	334.1	325.9
-62.5°	304.5	311.9	319.6	326.5	319.6	311.9	304.5	295.8	285.5	277.0	268.6
-65°	248.9	256.0	262.4	267.9	262.4	256.0	248.9	240.8	231.6	223.2	214.8
-67.5°	206.3	214.4	222.5	229.8	222.5	214.4	206.3	197.4	187.9	178.4	168.9
-70°	158.2	164.9	170.6	175.5	170.6	164.9	158.2	150.8	142.7	134.2	125.8
-72.5°	109.8	116.0	123.1	129.7	123.1	116.0	109.8	102.8	95.2	87.6	81.1
-75°	59.1	63.7	68.0	72.1	68.0	63.7	59.1	54.4	49.5	45.0	43.0
-77.5°	39.8	43.7	46.5	49.2	46.5	43.7	39.8	35.8	31.8	28.2	26.6
-80°	29.3	32.0	34.3	36.5	34.3	32.0	29.3	26.5	23.7	21.0	20.1
-82.5°	21.4	23.6	25.4	27.1	25.4	23.6	21.4	19.2	17.0	14.8	14.0
-85°	17.3	19.5	21.2	22.9	21.2	19.5	17.3	15.2	13.0	10.8	10.1
-87.5°	15.6	17.9	19.1	20.4	19.1	17.9	15.6	13.3	11.1	8.7	8.1
-90°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	10.6	8.2	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.5	2.5	2.5	2.5
85°	1.6	1.7	1.7	1.9	2.1	2.3	2.5	2.6	2.7	2.8	2.9
82.5°	2.0	2.2	2.3	2.3	2.3	2.4	2.5	2.7	3.0	3.2	3.4
80°	2.1	2.3	2.5	2.6	2.7	2.8	2.8	2.9	3.0	3.2	3.4
77.5°	2.4	2.4	2.6	2.9	3.1	3.4	3.5	3.6	3.7	3.8	3.8
75°	3.4	3.3	3.4	3.8	4.0	4.1	4.1	4.1	4.1	4.1	4.2
72.5°	5.6	5.6	5.8	6.2	6.5	6.8	6.7	6.1	5.5	4.7	4.2
70°	7.6	8.0	8.9	10.1	11.0	11.4	11.2	10.4	8.9	7.8	6.6
67.5°	8.7	9.3	10.7	12.5	13.9	15.1	16.3	16.8	16.1	14.5	10.8
65°	8.6	9.7	10.7	11.7	13.3	15.6	19.7	21.8	22.3	21.4	16.7
62.5°	7.1	8.2	8.9	9.8	10.9	13.3	18.8	23.3	26.7	26.6	21.2
60°	5.4	5.9	6.8	7.6	8.5	11.1	16.1	22.0	28.8	27.3	23.3
57.5°	5.0	5.4	5.9	6.4	6.7	8.8	12.6	17.8	24.2	24.2	22.7
55°	5.7	6.0	6.3	6.6	6.8	7.7	9.2	12.4	17.2	18.4	18.2
52.5°	5.9	6.3	6.8	7.3	7.4	7.5	8.0	9.7	11.1	13.0	13.9
50°	6.7	6.8	7.1	7.5	7.7	7.7	7.7	8.3	9.2	10.0	10.6
47.5°	7.6	7.7	7.5	7.6	8.0	8.1	7.9	7.9	8.7	9.1	9.5
45°	9.2	9.2	8.9	9.2	9.1	9.0	8.7	9.0	9.1	9.3	9.3
42.5°	16.7	13.4	11.2	12.2	12.5	11.7	10.6	10.9	10.6	10.2	10.9
40°	23.0	26.1	22.7	18.2	17.1	16.5	15.1	13.5	13.0	12.1	13.5
37.5°	27.3	26.6	32.7	35.2	28.3	22.9	21.1	18.2	16.2	16.7	17.7
35°	41.8	40.3	40.9	44.0	46.0	39.6	30.8	25.0	21.9	22.5	22.8
32.5°	63.8	59.6	59.4	57.9	60.5	60.1	49.4	37.1	32.0	30.4	29.0
30°	81.2	76.9	71.9	80.9	85.7	81.9	71.4	63.2	51.9	39.9	36.2
27.5°	102.1	99.1	91.2	109.0	118.9	112.5	105.7	98.1	78.0	58.8	47.3
25°	142.1	132.5	138.8	151.1	159.3	154.4	146.6	136.0	115.1	87.0	71.1
22.5°	200.0	196.3	196.4	196.4	217.8	212.0	191.2	175.8	171.6	158.8	118.9
20°	309.8	286.4	267.6	295.5	317.3	284.4	243.2	261.8	294.0	263.9	184.0
17.5°	548.8	464.9	420.8	461.1	459.0	398.4	427.3	440.0	439.8	394.6	262.4
15°	958.7	787.1	700.6	660.9	658.9	696.7	727.1	648.5	607.6	536.0	390.4
12.5°	1988.1	1178.0	1004.0	917.3	932.0	987.5	1033.1	923.0	803.7	741.2	605.8
10°	3550.1	1893.3	1382.2	1237.4	1199.2	1250.4	1274.7	1165.0	1028.7	967.5	835.6
7.5°	6757.6	3114.9	1769.3	1533.2	1420.9	1407.1	1416.4	1351.5	1240.5	1185.9	1073.1
5°	9537.5	3962.1	2064.9	1762.7	1608.3	1566.4	1558.7	1504.2	1441.5	1397.5	1309.6
2.5°	10199.1	4094.5	2319.9	1974.1	1779.7	1723.4	1716.3	1629.3	1575.9	1509.9	1413.5
0°	11770.3	4775.6	2408.2	2051.2	1874.0	1857.0	1897.7	1744.2	1679.8	1600.9	1499.2
-2.5°	10514.3	4232.0	2321.7	2008.8	1859.1	1875.0	1962.1	1847.1	1750.5	1632.1	1479.8
-5°	8840.9	3710.9	2171.3	1874.3	1751.8	1799.4	1918.4	1863.2	1764.5	1638.5	1433.3
-7.5°	6772.0	3057.8	1977.0	1717.7	1625.5	1695.7	1809.8	1777.1	1672.3	1564.4	1338.4
-10°	4215.9	2276.1	1709.3	1529.7	1500.2	1607.1	1716.5	1678.5	1581.2	1488.5	1228.0
-12.5°	2942.4	1702.0	1436.0	1335.3	1384.0	1544.1	1635.7	1571.7	1494.0	1413.2	1106.6
-15°	1741.7	1405.7	1276.1	1240.2	1317.2	1477.1	1552.2	1490.5	1430.4	1339.7	978.2
-17.5°	1362.1	1201.6	1149.5	1198.1	1311.9	1408.0	1459.6	1425.8	1355.5	1217.3	823.8
-20°	1166.8	1111.1	1135.2	1197.7	1297.5	1368.2	1396.8	1354.8	1265.1	1026.3	666.6



REPORT NUMBER: P731332 (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°	1083.8	1132.7	1184.3	1230.0	1258.6	1306.3	1318.2	1271.1	1162.8	824.7	513.6
-25°	1115.3	1207.9	1280.0	1287.4	1249.8	1246.7	1243.8	1177.0	959.8	638.4	385.0
-27.5°	1199.2	1308.3	1369.4	1336.6	1265.8	1202.4	1161.5	1060.9	751.5	492.0	362.2
-30°	1309.0	1365.3	1383.5	1326.8	1240.3	1172.4	1089.2	833.2	579.4	380.0	345.1
-32.5°	1370.8	1377.3	1350.3	1265.7	1196.1	1133.3	902.6	624.9	418.9	361.9	336.2
-35°	1406.3	1343.4	1263.6	1208.2	1168.2	957.6	701.5	466.1	373.6	346.4	329.3
-37.5°	1355.1	1258.9	1205.7	1139.3	961.1	739.2	495.4	393.2	358.0	338.6	327.1
-40°	1279.5	1202.7	1060.4	907.8	701.8	478.6	411.4	378.6	353.9	334.3	327.4
-42.5°	1105.2	972.8	800.6	604.1	449.6	422.9	396.9	371.9	352.9	339.4	312.5
-45°	802.7	631.6	477.8	450.1	424.5	404.3	386.6	371.7	358.9	327.7	292.9
-47.5°	494.1	465.5	440.5	422.9	404.9	390.5	386.2	377.2	341.4	306.8	271.8
-50°	440.9	427.4	413.7	402.5	397.0	392.2	374.7	349.8	315.1	280.5	247.1
-52.5°	413.1	409.2	405.1	400.8	384.3	363.2	340.7	314.1	283.3	250.1	217.9
-55°	410.8	398.8	382.7	365.6	346.7	323.4	299.5	274.3	246.4	215.8	187.9
-57.5°	368.6	356.1	338.8	320.1	300.2	278.2	254.9	231.1	208.0	182.3	157.5
-60°	316.5	305.0	287.4	269.0	249.7	229.6	209.1	188.9	169.2	150.4	130.4
-62.5°	258.5	246.6	231.5	215.5	198.1	180.0	164.2	150.4	136.1	120.1	101.9
-65°	204.2	191.3	177.3	165.5	152.9	139.4	127.7	115.4	102.3	88.3	72.6
-67.5°	158.8	148.0	137.3	126.3	114.6	102.0	91.2	80.0	70.3	60.5	49.4
-70°	116.9	107.7	98.0	87.7	77.7	68.6	60.9	53.2	44.7	37.9	32.1
-72.5°	74.5	67.9	61.2	54.2	47.6	42.5	37.7	32.9	28.3	23.8	20.4
-75°	40.6	37.8	34.5	31.0	27.3	23.4	21.5	20.5	19.5	18.3	17.0
-77.5°	25.0	23.5	22.1	21.0	20.0	19.0	18.1	17.1	16.1	15.2	14.4
-80°	19.0	18.0	16.9	16.1	15.4	14.7	14.1	13.5	12.9	12.5	12.1
-82.5°	13.2	12.3	11.5	11.3	11.0	10.7	10.4	10.2	10.0	9.9	9.7
-85°	9.4	8.7	8.0	7.9	7.8	7.7	7.6	7.6	7.7	7.8	7.8
-87.5°	7.4	6.7	5.9	5.9	5.9	5.9	5.9	6.1	6.2	6.4	6.5
-90°	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.5	2.5	2.5	2.5





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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°	5.7	5.5	5.3	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	2.7	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.2	4.2	4.2
85°	3.0	3.1	3.2	3.4	3.6	3.8	4.0	4.2	4.2	4.2	4.2
82.5°	3.4	3.4	3.4	3.4	3.6	3.8	4.0	4.2	4.2	4.2	4.2
80°	3.6	3.6	3.7	3.7	3.7	3.8	4.0	4.2	4.2	4.2	4.2
77.5°	3.9	3.9	4.1	4.1	4.0	4.0	4.1	4.2	4.2	4.2	4.2
75°	4.2	4.1	4.2	4.2	4.3	4.2	4.2	4.2	4.3	4.2	4.2
72.5°	4.2	4.2	4.2	4.3	4.4	4.5	4.3	4.3	4.4	4.4	4.3
70°	5.4	4.5	4.2	4.3	4.6	4.8	4.7	4.6	4.5	4.6	4.5
67.5°	7.7	6.3	5.2	4.5	4.6	4.8	5.0	5.0	4.9	4.8	4.7
65°	12.3	8.9	6.7	5.7	5.1	4.9	5.1	5.3	5.2	5.1	4.9
62.5°	16.2	11.9	8.9	7.1	5.9	5.3	5.1	5.4	5.5	5.4	5.2
60°	19.5	14.6	11.2	9.1	7.1	5.8	5.5	5.6	5.7	5.6	5.4
57.5°	19.0	16.3	13.9	11.2	8.8	6.8	5.9	5.9	5.9	5.9	5.7
55°	16.9	15.1	15.6	13.6	10.7	8.2	6.7	6.3	6.2	6.2	6.0
52.5°	13.2	14.3	15.8	15.4	12.9	9.8	8.0	6.7	6.6	6.5	6.4
50°	10.6	12.8	15.6	16.5	14.9	11.8	9.3	7.7	6.9	6.8	6.8
47.5°	10.2	12.2	14.3	17.3	16.6	13.6	10.8	8.8	7.3	7.1	7.2
45°	11.1	12.7	13.9	16.2	18.1	14.9	12.1	9.8	8.1	7.6	7.7
42.5°	12.6	13.9	14.9	15.2	17.3	16.0	13.3	10.8	9.0	8.2	8.2
40°	14.8	15.8	16.3	16.6	16.6	16.7	14.0	11.7	9.8	8.9	8.8
37.5°	17.5	18.2	18.3	19.0	17.1	16.6	14.6	12.4	10.9	9.9	9.3
35°	22.2	21.1	21.8	22.1	19.9	17.0	14.9	12.9	12.1	10.8	10.0
32.5°	27.6	26.3	26.7	25.9	23.5	17.9	15.3	14.3	13.4	11.8	10.6
30°	35.1	35.8	32.8	30.1	27.5	21.1	17.0	15.9	14.8	12.7	11.3
27.5°	49.1	47.6	40.5	35.8	31.6	25.4	20.2	17.7	16.3	13.7	12.1
25°	67.0	61.7	52.0	42.5	36.0	38.2	23.9	19.7	17.9	14.9	12.9
22.5°	90.8	78.1	64.9	49.9	54.8	55.2	31.2	22.7	19.5	16.2	13.6
20°	117.9	96.3	84.3	79.2	77.5	72.1	43.6	26.0	21.2	17.5	14.3
17.5°	153.0	134.6	131.0	115.3	102.4	90.7	58.3	29.4	22.9	18.7	15.0
15°	258.2	197.2	180.9	155.0	128.9	110.5	74.7	32.9	24.7	20.0	15.3
12.5°	394.9	261.9	233.2	197.4	156.6	131.3	92.2	36.5	26.5	20.6	15.1
10°	548.7	327.8	287.2	241.7	185.0	152.7	110.3	40.0	27.3	20.6	14.9
7.5°	712.4	394.2	342.0	286.7	212.7	172.7	128.3	43.1	28.0	20.4	14.6
5°	860.9	448.6	385.3	320.9	234.7	190.4	145.7	46.2	28.7	20.2	14.3
2.5°	925.5	482.9	420.1	351.7	255.7	207.2	161.6	49.1	29.3	19.9	14.0
0°	972.6	514.7	452.8	379.9	275.6	223.0	175.5	51.7	29.7	19.5	13.6
-2.5°	927.6	509.6	445.5	378.7	282.1	226.3	176.2	59.8	35.6	23.0	15.0
-5°	868.4	502.0	436.5	375.0	286.9	228.3	174.5	67.2	41.1	26.3	16.4
-7.5°	816.6	482.7	423.1	368.4	289.7	228.8	171.1	74.1	46.2	29.3	17.6
-10°	750.8	456.0	403.8	353.1	285.6	227.5	166.5	80.1	50.8	31.9	18.7
-12.5°	664.7	428.7	384.3	338.0	279.4	224.8	162.6	85.8	54.9	34.1	19.5
-15°	557.2	401.2	364.9	323.9	272.5	221.3	157.9	90.8	59.1	36.3	20.1
-17.5°	430.0	373.8	346.1	311.6	265.0	217.1	152.9	94.7	62.6	38.6	21.1
-20°	392.2	354.5	328.5	301.6	257.2	212.2	148.0	97.4	65.3	40.3	22.1



REPORT NUMBER: P731332 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-CV5

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	372.2	342.2	319.0	291.4	249.5	206.8	143.4	98.8	67.2	41.3	22.7
-25°	351.7	330.5	312.0	281.5	241.9	198.4	141.7	99.0	68.3	41.6	22.8
-27.5°	336.8	320.5	306.5	271.1	233.1	191.5	141.2	99.8	68.5	41.0	22.3
-30°	325.1	314.9	295.8	260.2	223.3	181.5	139.0	99.5	67.7	40.2	21.3
-32.5°	319.4	311.5	283.2	248.5	211.7	170.9	132.6	98.1	65.8	39.0	20.7
-35°	319.3	301.7	270.2	236.0	199.1	160.9	124.6	95.5	62.7	36.9	20.0
-37.5°	318.3	287.6	255.7	222.2	186.0	150.1	117.0	88.3	58.5	33.9	18.9
-40°	301.7	271.5	240.0	207.6	173.2	138.7	108.1	79.9	54.0	30.0	17.4
-42.5°	283.8	253.3	222.4	192.1	160.0	127.6	98.1	70.8	47.4	27.1	15.6
-45°	263.0	233.3	203.1	174.8	146.0	115.1	87.0	61.1	40.0	24.5	14.1
-47.5°	240.3	210.6	182.5	156.2	130.3	101.4	75.0	52.2	32.1	21.4	13.6
-50°	214.0	186.6	160.9	136.7	112.2	87.1	62.7	42.6	27.6	17.4	13.0
-52.5°	187.9	161.7	139.1	116.8	94.3	71.8	51.4	33.0	22.9	15.5	12.4
-55°	160.8	137.6	117.6	96.7	76.0	57.7	39.4	27.4	17.9	14.4	11.6
-57.5°	135.9	114.8	95.4	76.1	59.2	43.3	30.6	21.4	15.8	13.2	11.1
-60°	110.7	90.8	72.4	57.7	43.3	31.9	23.7	16.8	14.4	12.2	10.5
-62.5°	83.8	66.8	53.2	40.3	31.2	24.0	17.4	15.3	13.1	11.4	9.9
-65°	59.8	47.0	35.0	28.9	22.6	17.5	15.7	13.7	12.1	10.7	9.3
-67.5°	38.2	31.7	25.4	19.7	17.2	15.6	14.0	12.6	11.3	9.9	8.9
-70°	26.5	20.9	18.1	16.5	15.1	13.7	12.7	11.6	10.4	9.4	8.5
-72.5°	18.7	17.1	15.6	14.2	13.4	12.5	11.6	10.7	9.8	8.9	8.0
-75°	15.6	14.6	13.7	12.9	12.1	11.3	10.7	10.0	9.2	8.4	7.5
-77.5°	13.6	12.8	12.1	11.5	10.9	10.3	9.9	9.4	8.6	7.8	7.0
-80°	11.5	11.0	10.5	10.0	9.6	9.3	8.9	8.5	7.7	7.1	6.5
-82.5°	9.4	9.1	8.9	8.6	8.3	8.0	7.8	7.4	6.9	6.4	6.0
-85°	7.7	7.5	7.3	7.2	7.0	6.8	6.7	6.5	6.2	5.9	5.7
-87.5°	6.4	6.3	6.2	6.1	6.0	5.9	5.9	5.8	5.7	5.5	5.4
-90°	2.7	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.2	4.2	4.2



REPORT NUMBER: P731332 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.1	4.9	4.7	4.4	4.2	4.2	4.2
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	4.2	4.3	4.2	4.2	4.2	4.2	4.2
72.5°	4.3	4.5	4.4	4.2	4.2	4.2	4.2
70°	4.4	4.6	4.5	4.2	4.2	4.2	4.2
67.5°	4.6	4.7	4.7	4.4	4.2	4.2	4.2
65°	4.9	4.9	4.9	4.6	4.2	4.2	4.2
62.5°	5.1	5.1	5.1	4.7	4.2	4.2	4.2
60°	5.4	5.3	5.3	4.9	4.2	4.2	4.2
57.5°	5.7	5.6	5.4	5.1	4.3	4.2	4.2
55°	6.0	5.8	5.6	5.3	4.4	4.2	4.2
52.5°	6.3	6.0	5.8	5.5	4.5	4.2	4.2
50°	6.6	6.3	5.9	5.7	4.6	4.2	4.2
47.5°	6.9	6.5	6.1	5.8	4.7	4.2	4.2
45°	7.4	6.8	6.3	6.0	4.8	4.2	4.2
42.5°	7.8	7.1	6.4	6.1	4.9	4.2	4.2
40°	8.3	7.4	6.6	6.1	5.0	4.2	4.2
37.5°	8.7	7.7	6.9	6.2	5.0	4.2	4.2
35°	9.2	8.1	7.1	6.2	5.1	4.2	4.2
32.5°	9.7	8.5	7.3	6.2	5.1	4.2	4.2
30°	10.3	8.9	7.6	6.2	5.2	4.2	4.2
27.5°	10.8	9.3	7.6	6.2	5.2	4.2	4.2
25°	11.4	9.7	7.7	6.2	5.2	4.2	4.2
22.5°	11.9	10.0	7.6	6.2	5.2	4.2	4.2
20°	12.5	9.9	7.6	6.2	5.2	4.2	4.2
17.5°	12.6	9.9	7.6	6.2	5.2	4.2	4.2
15°	12.4	9.8	7.5	6.2	5.2	4.2	4.2
12.5°	12.1	9.6	7.4	6.1	5.2	4.2	4.2
10°	11.8	9.4	7.3	6.1	5.2	4.2	4.2
7.5°	11.5	9.2	7.2	6.1	5.2	4.2	4.2
5°	11.1	9.0	7.1	6.0	5.2	4.2	4.2
2.5°	10.6	8.8	6.9	6.0	5.1	4.2	4.2
0°	10.2	8.5	6.8	5.9	5.1	4.2	4.2
-2.5°	10.6	8.6	6.9	5.9	5.1	4.2	4.2
-5°	11.1	8.6	6.9	5.9	5.1	4.2	4.2
-7.5°	11.4	8.7	7.0	5.9	5.1	4.3	4.2
-10°	11.7	8.7	7.0	5.9	5.1	4.3	4.2
-12.5°	12.0	8.7	7.0	5.8	5.1	4.3	4.2
-15°	12.1	8.7	7.0	5.8	5.1	4.3	4.2
-17.5°	12.2	8.7	7.0	5.8	5.0	4.3	4.2
-20°	12.3	8.7	7.0	5.8	5.0	4.3	4.2



REPORT NUMBER: P731332 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-1S-CV5

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	12.7	8.6	7.0	5.7	5.0	4.4	4.2
-25°	12.8	8.7	6.9	5.7	5.0	4.4	4.2
-27.5°	12.7	8.8	6.8	5.6	5.0	4.4	4.2
-30°	12.4	8.8	6.7	5.6	5.0	4.4	4.2
-32.5°	11.8	8.8	6.7	5.5	5.0	4.4	4.2
-35°	11.6	8.8	6.6	5.5	5.0	4.4	4.2
-37.5°	11.5	8.7	6.6	5.4	5.0	4.4	4.2
-40°	11.3	8.6	6.5	5.3	4.9	4.4	4.2
-42.5°	11.1	8.5	6.5	5.3	4.9	4.4	4.2
-45°	10.7	8.3	6.4	5.3	4.9	4.4	4.2
-47.5°	10.3	8.1	6.4	5.3	4.9	4.4	4.2
-50°	10.0	7.9	6.4	5.3	4.9	4.4	4.2
-52.5°	9.7	7.7	6.3	5.3	5.0	4.4	4.2
-55°	9.4	7.5	6.2	5.3	5.0	4.4	4.2
-57.5°	9.0	7.4	6.1	5.3	5.0	4.4	4.2
-60°	8.6	7.2	6.0	5.3	5.0	4.4	4.2
-62.5°	8.4	7.0	6.0	5.3	4.9	4.4	4.2
-65°	8.1	6.8	5.9	5.3	4.9	4.4	4.2
-67.5°	7.8	6.6	5.8	5.3	4.8	4.4	4.2
-70°	7.4	6.4	5.7	5.3	4.8	4.3	4.2
-72.5°	7.1	6.2	5.6	5.2	4.7	4.3	4.2
-75°	6.7	6.0	5.5	5.1	4.6	4.3	4.2
-77.5°	6.3	5.8	5.4	5.0	4.6	4.3	4.2
-80°	5.9	5.6	5.2	4.9	4.5	4.3	4.2
-82.5°	5.7	5.4	5.1	4.8	4.4	4.3	4.2
-85°	5.5	5.2	4.9	4.7	4.4	4.2	4.2
-87.5°	5.3	5.1	4.8	4.5	4.3	4.2	4.2
-90°	4.2	4.2	4.2	4.2	4.2	4.2	4.2

(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

