

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: P731618 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680N-40-80-1S-CV1**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731618 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680N-40-80-1S-CV1  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

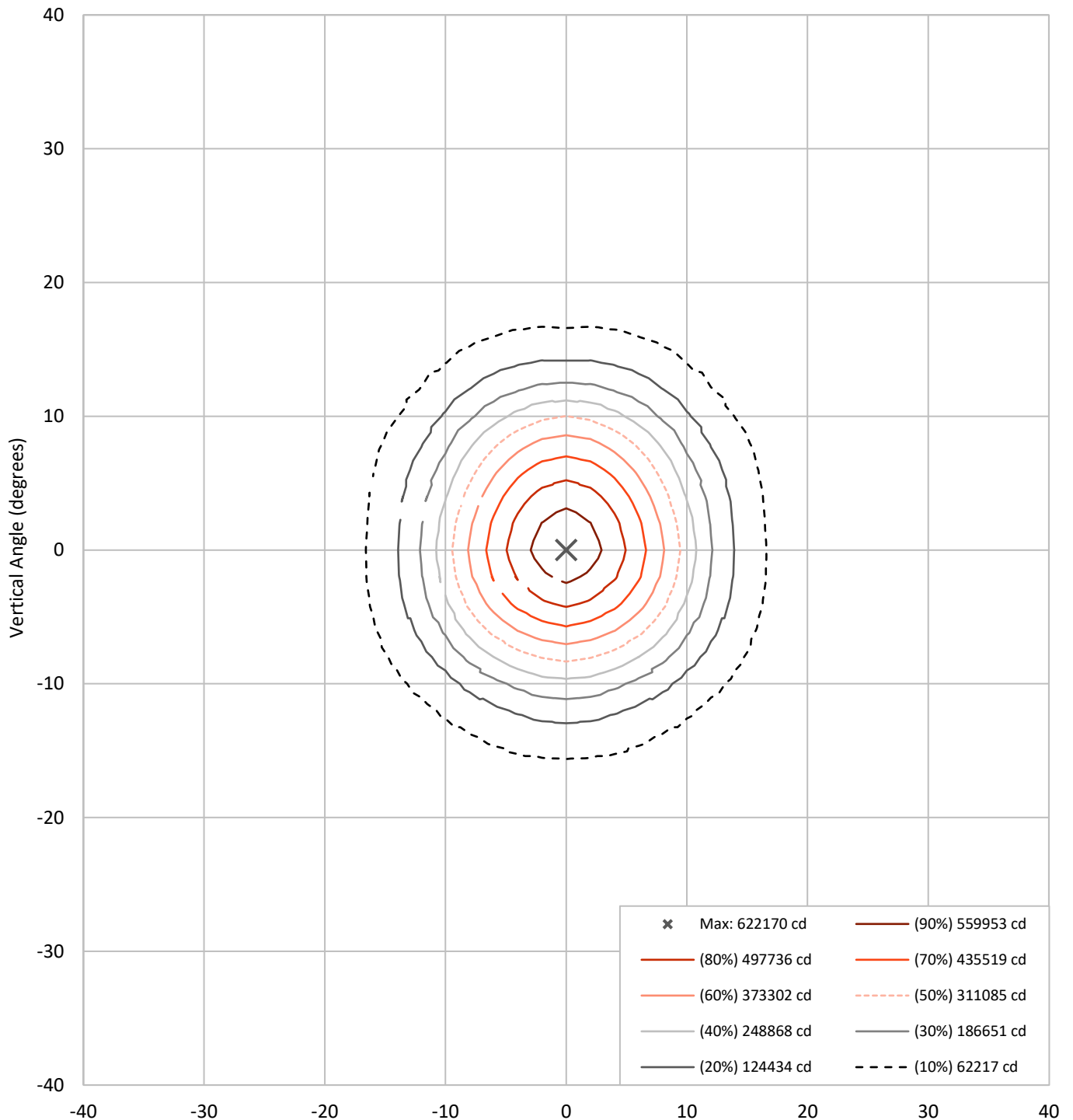
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	74941.3 lumens	Max Intensity:	622170 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	103.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.9°H x 18.3°V	Field Angle (10%):	33°H x 31.9°V
Beam Lumens:	34965.4 lumens	Field Lumens:	63506.8 lumens
Beam Efficiency:	46.7%	Field Efficiency:	84.7%

Input Watts (W): 724.3  
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-08-0680N-40-80-1S-CV1

### Iso-Candela Plot





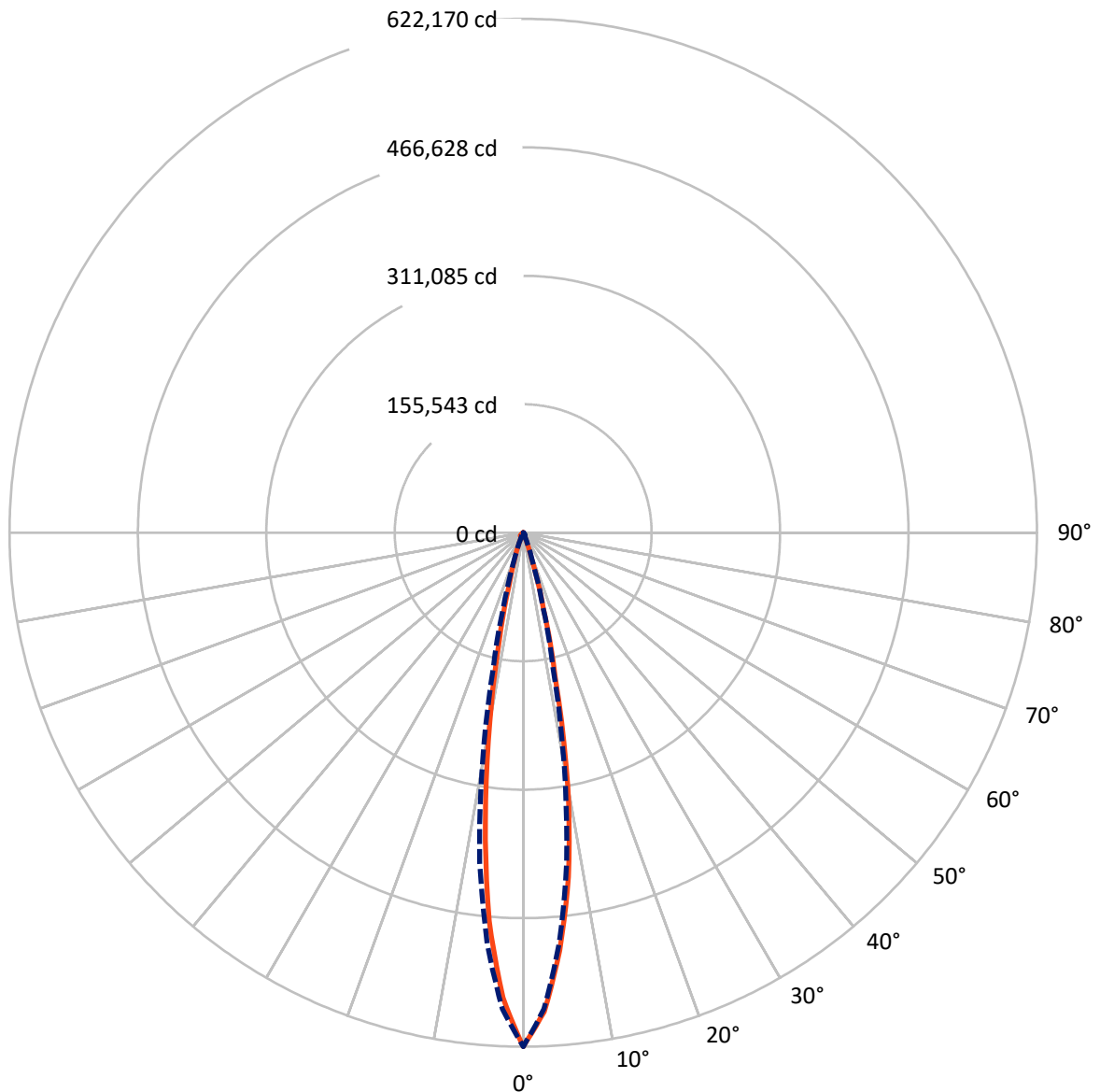
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### Lumen Table

90	0.1	0.3	0.4	0.5	0.5	0.5	0.4	0.3	0.1								
80	0.1	0.3	0.4	0.5	0.5	0.5	0.4	0.3	0.1								
70	0.1	0.1	0.2	0.6	0.7	0.4	0.3	0.3	0.3	0.3	0.4	0.7	0.6	0.2	0.1	0.1	
60		0.1	0.3	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.6	0.3	0.1		
50	0.2	0.2	0.4	0.4	0.5	0.8	1.2	0.9	0.9	1.2	0.8	0.5	0.4	0.4	0.2	0.2	
40		0.3	0.9	2.1	4.1	6.0	8.5	10.5	10.5	8.5	6.0	4.1	2.1	0.9	0.3		
30	0.3	0.5	4.1	13.0	30.6	41.6	66.5	118.7	118.7	66.5	41.6	30.6	13.0	4.1	0.5	0.3	
20		1.3	8.7	37.4	75.3	99.7	728.9	2937.3	2937.3	728.9	99.7	75.3	37.4	8.7	1.3		
10	0.4	2.0	11.2	50.4	83.8	183.1	2730.7	11792.7	11792.7	2730.7	183.1	83.8	50.4	11.2	2.0	0.4	
0		2.5	11.8	49.5	83.7	177.8	2612.4	10924.3	10924.3	2612.4	177.8	83.7	49.5	11.8	2.5		
-10	0.6	3.0	11.3	39.7	77.1	97.3	581.8	2181.1	2181.1	581.8	97.3	77.1	39.7	11.3	3.0	0.6	
-20		3.0	11.0	27.5	76.3	95.8	108.4	187.2	187.2	108.4	95.8	76.3	27.5	11.0	3.0		
-30	0.5	2.7	10.0	19.4	54.2	112.3	131.5	135.5	135.5	131.5	112.3	54.2	19.4	10.0	2.7	0.5	
-40		1.9	7.6	17.1	28.7	51.6	93.7	127.1	127.1	93.7	51.6	28.7	17.1	7.6	1.9		
-50	0.3	1.0	4.4	11.5	22.0	31.9	40.2	45.2	45.2	40.2	31.9	22.0	11.5	4.4	1.0	0.3	
-60		0.4	1.5	4.5	9.4	15.4	21.3	24.9	24.9	21.3	15.4	9.4	4.5	1.5	0.4		
-70	0.2	1.2	3.4	7.8	10.6	7.8	3.4	1.2	0.2							0.2	
-80		1.2	3.4	7.8	10.6	7.8	3.4	1.2	0.2								
-90	0.2	1.2	3.4	7.8	10.6	7.8	3.4	1.2	0.2								

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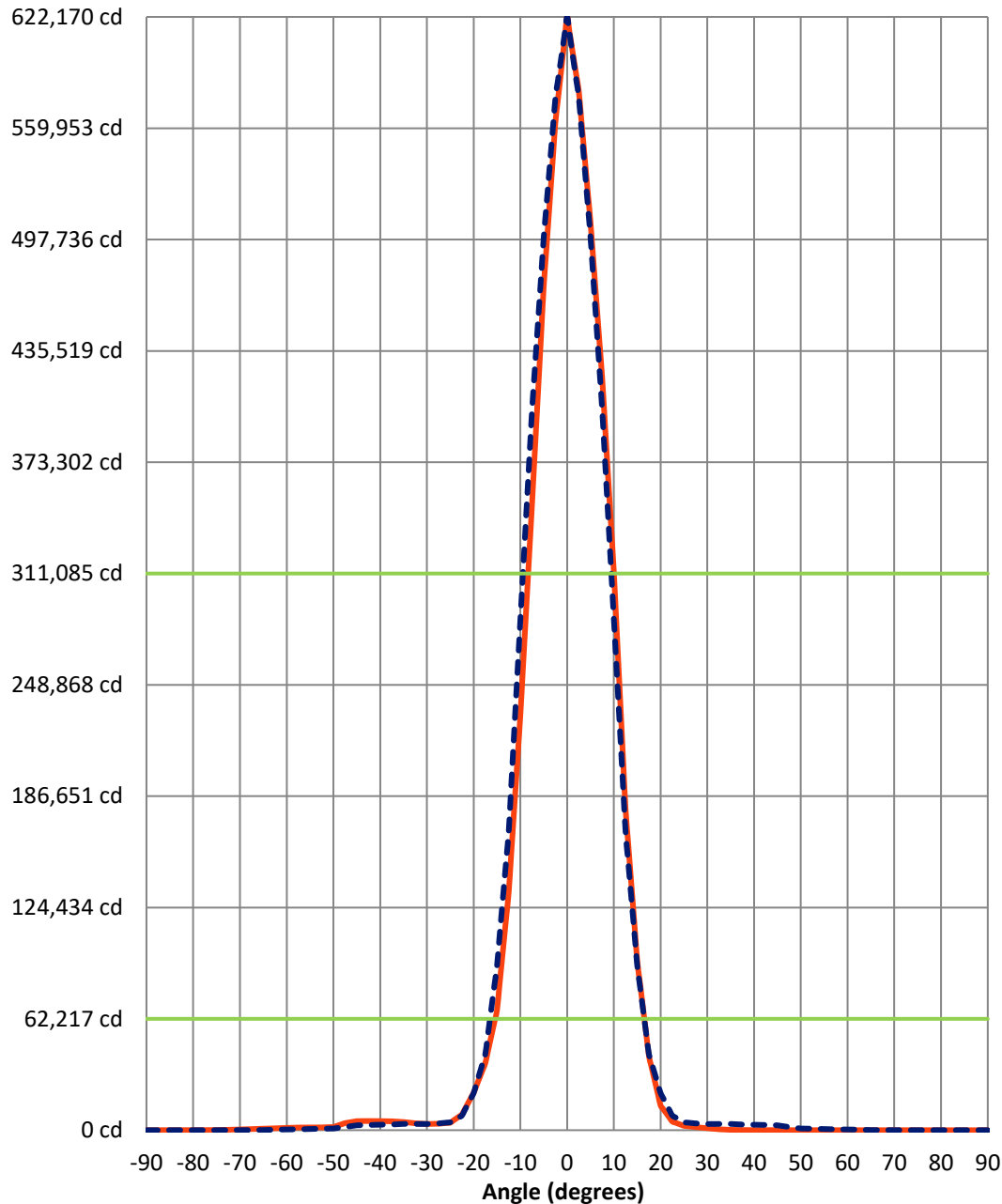
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 18.9°  
V Angle: 18.3°  
Lumens: 34965.4  
Efficiency: 46.7%

**Field:**  
H Angle: 33°  
V Angle: 31.9°  
Lumens: 63506.8  
Efficiency: 84.7%

**Spill:**  
Lumens: 11434.5  
Efficiency: 15.3%

— 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°	4.5	4.5	4.5	5.3	6.0	6.8	7.5	8.3	9.0	9.8	10.5
87.5°	4.5	4.5	4.5	4.2	3.9	3.6	3.4	3.3	3.3	3.1	3.0
85°	4.5	4.6	4.5	4.2	4.0	3.9	3.8	3.7	3.5	3.3	3.0
82.5°	4.5	4.6	4.5	4.3	4.1	4.1	4.2	4.0	3.8	3.6	3.4
80°	4.5	4.6	4.5	4.3	4.3	4.3	4.5	4.5	4.3	4.2	4.1
77.5°	4.5	4.7	4.5	4.4	4.4	4.6	4.9	4.9	4.9	4.8	4.6
75°	4.5	4.7	4.5	4.4	4.5	4.9	5.3	5.4	5.3	5.0	4.6
72.5°	4.5	4.7	4.5	4.5	4.8	5.2	5.7	5.7	5.4	5.0	4.7
70°	4.5	4.8	4.6	4.5	5.0	5.5	6.0	5.8	5.4	5.1	5.2
67.5°	4.5	4.8	4.6	4.7	5.3	5.9	6.0	5.8	5.5	5.7	5.8
65°	4.5	4.8	4.6	4.9	5.5	6.1	6.1	5.9	6.0	6.2	6.3
62.5°	4.5	4.9	4.7	5.1	5.8	6.2	6.2	6.2	6.5	6.8	6.6
60°	4.5	4.9	4.7	5.2	6.0	6.3	6.3	6.6	7.0	7.1	6.8
57.5°	4.5	5.0	4.8	5.4	6.1	6.4	6.6	7.1	7.5	7.5	7.4
55°	4.5	5.0	5.0	5.6	6.3	6.6	7.0	7.5	7.9	8.0	8.1
52.5°	4.5	5.1	5.1	5.7	6.5	6.8	7.4	8.0	8.4	8.6	8.9
50°	4.5	5.1	5.3	5.9	6.6	7.1	7.8	8.5	8.9	9.3	10.2
47.5°	4.5	5.1	5.4	6.0	6.8	7.4	8.1	9.0	9.5	9.9	11.6
45°	4.5	5.2	5.6	6.2	7.0	7.7	8.6	9.6	10.1	11.0	12.9
42.5°	4.5	5.2	5.7	6.3	7.2	8.0	9.1	10.1	10.6	12.0	15.2
40°	4.5	5.3	5.8	6.5	7.4	8.3	9.6	10.6	11.3	13.0	17.6
37.5°	4.5	5.3	6.0	6.7	7.6	8.5	10.1	11.0	12.3	14.4	19.7
35°	4.5	5.4	6.1	6.9	7.8	8.9	10.6	11.5	13.2	16.5	21.5
32.5°	4.5	5.4	6.2	7.1	8.0	9.3	11.1	11.9	14.2	18.6	23.3
30°	4.5	5.5	6.3	7.3	8.2	9.7	11.5	12.5	15.2	20.5	25.5
27.5°	4.5	5.5	6.5	7.4	8.4	10.1	11.8	13.3	16.4	22.4	28.0
25°	4.5	5.6	6.6	7.6	8.7	10.5	12.2	14.1	18.0	24.3	30.8
22.5°	4.5	5.6	6.7	7.8	8.9	10.9	12.5	14.8	19.4	26.5	35.1
20°	4.5	5.7	6.8	8.0	9.1	11.1	12.9	15.6	20.8	28.7	39.7
17.5°	4.5	5.7	6.9	8.1	9.3	11.4	13.2	16.3	22.1	31.1	44.7
15°	4.5	5.8	7.0	8.3	9.5	11.6	13.4	17.0	23.2	33.5	49.8
12.5°	4.5	5.8	7.1	8.4	9.7	11.7	13.7	17.6	24.3	35.8	55.0
10°	4.5	5.8	7.2	8.5	9.9	11.8	14.0	18.1	25.3	38.0	60.1
7.5°	4.5	5.9	7.3	8.7	10.1	11.9	14.3	18.5	26.3	40.1	65.1
5°	4.5	5.9	7.4	8.8	10.2	12.0	14.5	18.9	27.1	42.0	69.8
2.5°	4.5	6.0	7.4	8.9	10.4	12.0	14.8	19.2	27.9	43.6	74.2
0°	4.5	6.0	7.5	9.0	10.5	12.0	15.0	19.5	28.5	45.0	78.0
-2.5°	4.5	6.0	7.6	9.1	10.8	12.7	16.4	23.2	36.6	59.4	100.3
-5°	4.5	6.1	7.6	9.2	11.0	13.3	17.7	26.8	44.3	73.2	121.6
-7.5°	4.5	6.1	7.7	9.3	11.2	13.9	19.0	30.1	51.5	86.0	141.3
-10°	4.5	6.1	7.7	9.3	11.4	14.4	20.1	33.1	58.0	97.6	158.9
-12.5°	4.5	6.1	7.8	9.4	11.6	14.9	21.1	35.7	63.5	107.7	173.8
-15°	4.5	6.1	7.8	9.4	11.8	15.3	22.0	37.7	68.8	116.9	185.9
-17.5°	4.5	6.1	7.8	9.5	11.9	15.7	22.6	40.0	74.0	124.3	195.4
-20°	4.5	6.2	7.8	9.5	12.0	15.9	23.4	42.3	77.8	130.0	201.8



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 CATALOG NUMBER: EPH-LS-08-0680N-40-80-1S-CV1

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.5	6.2	7.8	9.5	12.0	16.1	24.2	43.6	80.1	133.6	205.0
-25°	4.5	6.1	7.9	9.5	12.0	16.3	24.6	43.9	80.9	135.1	204.8
-27.5°	4.5	6.1	7.9	9.5	12.0	16.3	24.5	43.0	79.9	135.0	205.9
-30°	4.5	6.1	7.8	9.5	11.9	16.3	24.0	41.0	78.5	133.7	204.2
-32.5°	4.5	6.1	7.8	9.5	11.9	16.2	22.9	39.9	76.1	130.0	199.6
-35°	4.5	6.1	7.8	9.5	11.8	16.0	22.4	38.7	72.0	123.9	191.9
-37.5°	4.5	6.1	7.8	9.4	11.7	15.7	22.1	36.7	66.2	115.3	179.7
-40°	4.5	6.0	7.8	9.4	11.6	15.6	21.6	33.9	58.6	106.3	165.5
-42.5°	4.5	6.0	7.7	9.4	11.5	15.3	21.0	30.4	52.9	94.7	148.6
-45°	4.5	5.9	7.7	9.3	11.4	15.0	20.2	27.5	47.9	81.3	129.8
-47.5°	4.5	5.9	7.6	9.3	11.4	14.6	19.3	26.4	41.9	66.3	112.6
-50°	4.5	5.8	7.6	9.2	11.3	14.2	18.6	25.0	34.7	58.0	93.5
-52.5°	4.5	5.8	7.5	9.1	11.2	13.6	17.9	23.5	31.0	48.7	73.7
-55°	4.5	5.7	7.4	9.0	11.0	13.3	17.1	21.9	28.9	38.5	61.8
-57.5°	4.5	5.6	7.4	8.9	10.8	13.1	16.2	20.7	26.6	34.0	48.9
-60°	4.5	5.6	7.3	8.7	10.6	12.8	15.3	19.5	24.4	31.1	38.6
-62.5°	4.5	5.5	7.1	8.5	10.3	12.5	14.8	18.2	22.9	27.9	34.9
-65°	4.5	5.4	6.9	8.3	10.0	12.1	14.3	17.1	21.4	25.9	30.9
-67.5°	4.5	5.3	6.7	8.1	9.6	11.6	13.8	16.4	19.8	24.1	28.3
-70°	4.5	5.3	6.5	7.9	9.2	11.0	13.2	15.6	18.7	22.2	26.2
-72.5°	4.5	5.2	6.3	7.6	8.7	10.3	12.3	14.8	17.5	20.6	24.1
-75°	4.5	5.1	6.0	7.2	8.3	9.6	11.3	13.7	16.3	19.0	22.0
-77.5°	4.5	5.0	5.8	6.9	7.9	8.9	10.2	12.5	14.9	17.3	19.8
-80°	4.5	4.9	5.5	6.6	7.5	8.3	9.1	11.2	13.5	15.7	17.9
-82.5°	4.5	4.8	5.3	6.3	7.2	7.9	8.6	10.2	12.0	14.0	16.1
-85°	4.5	4.7	5.0	5.9	6.8	7.5	8.3	9.6	11.0	12.6	14.3
-87.5°	4.5	4.6	4.8	5.6	6.4	7.2	7.9	8.9	10.0	11.2	12.4
-90°	4.5	4.5	4.5	4.1	3.8	3.4	3.0	3.0	3.0	3.0	3.0





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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°	10.5	10.5	10.5	10.5	10.9	11.3	11.6	12.0	12.4	12.8	13.1
87.5°	2.8	2.6	2.5	2.4	2.2	2.0	1.8	1.5	1.5	1.5	1.5
85°	3.0	3.0	3.0	3.0	2.7	2.5	2.3	2.1	2.0	1.9	1.7
82.5°	3.4	3.4	3.2	3.0	2.9	2.9	3.0	3.0	2.7	2.5	2.3
80°	4.0	3.8	3.6	3.5	3.5	3.5	3.3	3.1	3.0	3.1	3.3
77.5°	4.3	4.2	4.2	4.3	4.2	4.0	3.8	3.8	4.0	4.2	4.4
75°	4.4	4.5	4.6	4.6	4.4	4.4	4.5	4.8	5.0	5.0	4.9
72.5°	4.7	4.9	4.9	4.7	4.8	5.2	5.5	5.9	6.6	7.4	8.2
70°	5.4	5.4	5.3	5.4	5.7	6.3	7.6	9.3	10.9	12.8	15.6
67.5°	5.9	5.7	5.8	6.2	7.2	8.7	10.5	16.5	23.5	26.4	27.3
65°	6.0	6.0	6.6	7.6	8.9	13.6	20.2	28.4	36.1	36.9	35.6
62.5°	6.1	6.6	7.6	9.8	14.2	20.6	27.7	35.5	44.2	44.6	39.0
60°	6.7	7.4	9.7	13.9	19.1	24.9	32.7	39.0	46.2	49.5	37.8
57.5°	7.5	8.8	12.6	17.6	22.9	27.2	31.4	37.9	41.7	42.4	31.2
55°	8.7	10.7	15.5	21.3	25.1	24.1	27.6	31.2	32.7	30.4	21.7
52.5°	10.5	12.8	18.9	23.9	24.7	22.7	22.6	24.4	22.7	19.5	17.0
50°	12.1	16.6	22.1	25.3	24.6	21.6	18.3	17.9	17.3	16.2	14.6
47.5°	14.9	20.1	24.8	26.8	23.7	20.6	16.6	16.0	16.0	15.4	14.1
45°	17.9	22.9	27.8	26.0	23.1	20.0	18.4	16.5	16.5	16.7	17.6
42.5°	20.7	25.2	27.6	25.3	23.3	22.5	22.1	19.7	19.6	23.7	25.1
40°	22.6	27.1	27.6	27.2	25.1	27.2	27.8	28.0	29.3	33.6	35.8
37.5°	24.1	27.8	29.6	32.4	30.4	33.7	35.2	51.6	53.7	45.3	62.2
35°	25.4	29.2	36.8	44.9	47.5	42.2	63.7	86.2	94.1	88.9	108.1
32.5°	26.8	31.2	46.5	66.0	83.9	79.3	100.2	139.2	164.1	176.7	192.0
30°	29.6	40.3	61.7	92.9	139.0	166.6	168.2	209.6	255.4	336.6	409.9
27.5°	34.2	52.2	87.5	144.0	215.0	272.7	283.5	310.2	415.0	568.7	762.2
25°	39.5	81.2	117.2	213.3	317.9	383.0	401.9	447.3	629.0	981.7	1172.8
22.5°	54.2	119.8	167.4	294.1	433.4	489.6	529.0	694.1	1022.2	1488.3	1631.9
20°	82.0	164.5	229.7	363.5	550.0	594.9	654.2	1008.2	1534.2	1922.4	2117.4
17.5°	114.8	209.6	292.0	432.0	596.2	679.1	804.6	1367.9	2063.1	2341.8	2544.8
15°	151.5	254.8	346.1	492.3	637.0	735.1	1040.4	1786.0	2510.4	2741.0	2939.7
12.5°	190.7	299.6	392.6	544.7	677.2	787.1	1255.0	2080.0	2725.5	3051.7	3307.6
10°	231.0	343.6	432.5	589.6	716.4	835.0	1456.0	2331.9	2834.2	3104.3	3386.7
7.5°	256.1	371.7	463.0	627.3	753.6	878.6	1638.1	2541.6	2909.1	3120.7	3329.9
5°	274.8	381.3	470.9	644.2	781.5	910.7	1775.2	2708.3	2956.6	3108.2	3231.0
2.5°	289.1	387.9	476.0	653.5	802.4	926.8	1788.2	2734.5	2942.1	3084.5	3169.1
0°	298.6	391.7	478.7	657.3	819.3	937.9	1761.7	2720.6	2909.7	3056.8	3155.8
-2.5°	309.1	403.1	500.3	668.9	820.8	938.3	1736.5	2693.6	2941.8	3139.3	3303.7
-5°	315.4	412.3	518.6	676.0	818.1	934.5	1680.0	2624.5	2937.8	3145.8	3347.4
-7.5°	318.4	419.3	532.9	678.0	806.4	916.6	1584.0	2459.6	2814.2	3008.8	3258.3
-10°	319.5	428.3	539.6	667.4	783.6	888.6	1456.1	2269.1	2686.5	2864.5	3126.8
-12.5°	322.5	439.1	543.9	656.9	760.4	857.5	1299.6	2060.2	2557.9	2714.5	2981.6
-15°	322.6	447.7	546.9	647.9	737.9	823.8	1115.9	1839.5	2487.6	2741.9	2961.5
-17.5°	319.9	454.3	549.1	641.5	717.2	787.8	912.9	1642.4	2443.2	2801.1	3017.7
-20°	314.8	458.9	551.1	638.9	699.9	771.0	870.4	1422.7	2217.8	2828.0	3092.4



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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°	307.4	461.6	552.8	636.9	705.5	772.8	856.4	1173.7	1904.7	2824.6	3094.7
-25°	303.9	448.6	552.6	636.5	713.9	776.2	839.9	936.7	1568.1	2422.6	3012.7
-27.5°	302.6	433.8	543.1	630.3	721.5	781.7	836.9	915.4	1246.2	1941.3	2844.6
-30°	296.7	409.3	529.3	617.8	713.9	788.1	842.4	892.1	983.2	1526.5	2278.3
-32.5°	283.0	383.7	503.1	599.4	695.7	794.0	844.4	887.2	954.4	1115.1	1725.8
-35°	267.1	363.4	472.2	576.0	670.2	773.6	841.1	886.2	930.3	1008.0	1284.9
-37.5°	252.7	340.0	440.7	545.3	639.9	737.0	833.9	881.6	926.0	981.6	1086.9
-40°	235.5	313.6	410.8	510.4	604.8	698.4	792.3	875.0	919.6	991.9	1061.4
-42.5°	215.6	291.4	378.8	474.4	564.8	656.6	748.6	837.0	929.7	1002.2	1071.7
-45°	193.8	266.3	344.8	431.7	520.5	610.0	699.4	791.3	903.0	1013.6	1083.3
-47.5°	169.0	238.0	312.7	384.6	470.1	557.8	645.4	741.8	852.5	967.9	1092.3
-50°	142.8	206.5	274.8	340.8	413.6	498.9	584.8	681.8	785.9	897.6	1014.8
-52.5°	118.8	171.7	233.2	297.0	360.5	431.7	517.7	609.8	707.3	812.3	914.6
-55°	92.7	139.5	188.3	248.3	310.5	370.9	441.0	527.2	617.1	712.2	804.6
-57.5°	73.1	106.1	147.3	195.1	253.5	314.6	374.9	440.0	519.6	603.6	680.6
-60°	57.0	78.7	108.7	147.8	191.0	247.1	306.7	365.7	427.3	488.7	555.1
-62.5°	42.3	58.9	78.1	103.5	139.8	178.1	227.7	282.8	339.9	390.9	439.1
-65°	37.6	42.5	55.7	73.2	91.1	122.7	157.8	194.6	242.4	287.3	330.9
-67.5°	32.6	37.2	41.5	48.1	63.8	79.5	95.0	125.6	157.5	186.3	216.8
-70°	29.5	32.1	35.9	39.6	43.2	49.9	63.5	76.9	89.7	105.3	129.3
-72.5°	26.7	28.8	31.2	33.9	37.0	40.1	43.3	46.5	54.6	65.1	74.6
-75°	24.0	25.3	27.1	29.1	31.4	33.6	35.8	38.4	41.2	44.2	47.3
-77.5°	21.3	22.4	23.5	24.6	26.0	27.9	29.8	31.6	33.3	35.0	36.6
-80°	18.8	19.5	20.3	21.2	22.2	23.3	24.4	25.6	26.9	28.2	29.6
-82.5°	16.7	17.2	17.7	18.2	18.7	19.2	19.7	20.4	21.1	21.9	22.7
-85°	14.7	15.0	15.3	15.7	16.0	16.3	16.6	16.9	17.1	17.4	17.6
-87.5°	12.6	12.7	12.9	13.1	13.4	13.7	13.9	14.1	14.3	14.5	14.6
-90°	2.6	2.3	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	13.5	13.9	14.3	14.6	15.0	15.4	15.8	16.1	16.5	16.5	16.5
87.5°	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.1	0.7
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	2.2	2.1	2.0	1.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	3.4	3.2	3.0	2.7	2.5	2.3	2.1	1.8	1.5	1.5	1.5
77.5°	4.5	4.2	3.8	3.5	3.1	2.9	2.8	2.7	2.7	2.8	2.9
75°	4.6	4.5	4.7	4.7	4.5	4.3	4.1	3.7	3.1	3.0	3.0
72.5°	8.9	9.2	9.1	8.9	8.1	7.6	7.3	7.0	6.6	6.5	6.4
70°	17.0	17.2	16.5	15.0	12.7	11.2	10.6	9.8	8.9	8.9	9.3
67.5°	25.9	23.7	21.6	19.2	16.1	14.0	13.2	12.4	11.6	11.2	11.1
65°	32.0	25.1	21.4	19.0	17.5	15.7	14.0	12.4	10.8	9.7	9.4
62.5°	31.6	22.1	17.8	15.8	14.3	13.2	11.5	10.1	8.8	7.9	7.8
60°	27.4	18.4	13.7	12.3	11.3	10.5	9.6	8.7	8.0	7.5	7.5
57.5°	21.5	14.3	10.5	10.3	9.9	9.3	8.8	8.3	7.9	7.5	7.9
55°	15.6	12.5	10.6	10.4	10.1	9.5	8.9	8.8	8.7	8.5	9.1
52.5°	13.5	12.3	11.8	11.5	10.9	10.5	10.4	10.4	10.5	10.8	11.0
50°	13.3	12.8	12.5	11.9	11.8	11.9	11.9	12.3	12.8	12.9	13.0
47.5°	13.8	13.7	14.1	13.3	13.6	14.6	14.8	15.1	16.2	16.4	16.4
45°	16.3	18.5	19.0	18.9	18.5	24.1	25.2	23.1	31.7	30.5	23.7
42.5°	25.1	27.8	29.6	34.9	43.0	48.2	62.2	85.5	76.5	57.6	37.2
40°	43.1	42.3	50.5	60.5	66.4	77.3	94.5	116.8	107.8	91.5	97.7
37.5°	76.0	76.9	79.6	92.7	97.5	85.5	110.7	108.8	92.3	118.1	121.1
35°	139.4	154.2	131.0	159.5	166.2	156.0	165.3	182.8	158.1	191.2	201.9
32.5°	250.9	276.4	277.5	284.1	307.8	330.6	337.0	384.4	399.7	439.6	482.6
30°	400.7	447.9	488.1	498.9	530.5	586.8	633.3	724.5	822.3	895.7	992.1
27.5°	722.3	679.5	769.0	877.9	843.2	925.0	1092.6	1224.3	1419.0	1559.2	1634.9
25°	1168.2	1098.7	1261.7	1427.8	1428.1	1442.0	1684.4	1895.8	2055.1	2181.6	2292.6
22.5°	1694.5	1781.0	1927.2	2120.0	2019.5	2111.1	2351.8	2523.4	2746.7	2965.5	3621.2
20°	2284.3	2459.4	2579.7	2550.9	2546.5	2702.2	2913.9	3245.2	3920.6	6301.4	8575.0
17.5°	2804.0	3016.7	3006.2	2885.1	2942.5	3203.9	3588.2	4874.3	8286.2	16018.7	23255.3
15°	3207.0	3301.8	3239.4	3167.0	3295.4	3686.9	4648.0	8806.8	19160.4	31543.2	45677.2
12.5°	3476.2	3439.0	3275.4	3287.2	3592.2	4142.3	7408.7	17142.3	32113.2	49698.5	85233.9
10°	3580.3	3478.4	3335.2	3467.7	3883.7	5207.9	9964.7	23801.4	46435.5	82996.0	130893.2
7.5°	3509.4	3422.6	3382.2	3616.3	4170.0	6897.2	15489.8	33665.1	66561.2	113708.6	181112.0
5°	3463.6	3405.6	3414.3	3713.9	4351.0	8139.4	19394.5	39870.3	82562.9	143409.5	229161.3
2.5°	3460.9	3426.3	3441.7	3781.6	4453.1	8775.2	21594.2	40903.8	88183.7	159564.9	268476.7
0°	3498.0	3475.5	3462.0	3795.1	4404.4	8152.9	20717.7	42564.0	92039.8	166853.9	285557.0
-2.5°	3670.8	3486.6	3478.9	3794.3	4458.2	8615.7	21230.8	41990.6	90648.1	160117.3	267234.3
-5°	3629.4	3421.1	3387.9	3652.8	4272.5	7758.5	18586.8	38779.5	79624.9	136148.5	220263.8
-7.5°	3465.4	3326.3	3267.2	3478.0	4016.9	6512.0	14414.4	30616.9	59959.0	102623.7	158723.1
-10°	3332.1	3240.2	3152.9	3298.8	3708.4	4976.6	9189.0	20539.9	40784.6	69786.2	101913.3
-12.5°	3262.0	3218.5	3061.1	3101.8	3388.0	3950.6	6429.7	13883.6	25541.5	37894.7	61903.7
-15°	3212.3	3179.4	3031.9	3022.2	3182.1	3514.5	4235.7	7201.5	14283.0	23176.2	32706.2
-17.5°	3167.4	3155.4	3077.3	2992.5	3012.5	3205.2	3602.2	4655.4	7304.3	12957.2	19117.0
-20°	3189.1	3196.1	3136.4	3047.8	3016.3	3041.2	3247.4	3610.3	4281.3	6566.6	9357.2



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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°	3182.3	3202.7	3186.7	3193.0	3155.0	3097.0	3056.1	3214.5	3468.5	3874.8	4906.9
-25°	3181.6	3209.7	3328.8	3481.4	3465.5	3327.1	3182.2	3056.6	3201.9	3377.4	3633.6
-27.5°	3134.6	3316.7	3613.4	3838.3	3902.8	3751.2	3548.4	3337.4	3314.2	3308.7	3407.2
-30°	3119.1	3510.5	3860.4	4181.1	4226.3	4149.8	4056.0	3905.6	3744.2	3654.9	3607.2
-32.5°	2648.3	3595.9	4023.9	4312.4	4383.8	4380.4	4401.5	4330.2	4279.9	4222.1	4140.5
-35°	2010.6	3005.1	4052.8	4185.8	4302.0	4405.7	4544.3	4579.8	4607.7	4639.7	4668.2
-37.5°	1404.0	2179.2	3049.8	3809.3	4050.6	4230.8	4476.5	4656.7	4806.7	4881.1	4970.3
-40°	1163.1	1377.3	2051.8	2693.7	3326.2	3909.6	4174.2	4481.3	4768.4	4928.0	5074.0
-42.5°	1139.2	1215.5	1296.5	1744.2	2279.6	2830.2	3371.1	3861.5	4384.0	4732.3	4988.6
-45°	1146.9	1185.4	1232.7	1311.3	1395.2	1815.4	2268.6	2731.3	3302.3	3860.2	4347.1
-47.5°	1146.0	1181.1	1218.5	1256.6	1306.6	1385.0	1465.5	1596.4	2001.3	2429.5	2843.7
-50°	1106.2	1177.7	1212.6	1248.2	1284.6	1323.3	1364.0	1421.4	1490.0	1554.1	1606.1
-52.5°	1006.0	1090.2	1171.1	1238.9	1272.3	1306.3	1342.5	1390.3	1435.2	1477.4	1499.3
-55°	892.7	976.6	1058.5	1131.3	1200.0	1266.2	1327.6	1371.5	1416.4	1462.0	1480.7
-57.5°	762.5	847.1	928.4	996.3	1064.9	1133.5	1197.1	1258.1	1319.1	1376.8	1409.0
-60°	623.9	694.5	767.3	836.9	903.6	967.0	1026.2	1084.1	1139.5	1187.9	1218.4
-62.5°	487.7	543.4	604.8	665.2	723.7	780.3	834.9	887.0	936.2	977.5	1006.3
-65°	373.4	414.9	457.2	500.7	545.2	593.9	639.8	683.2	723.8	757.5	782.6
-67.5°	253.6	289.6	323.8	356.1	388.7	423.0	457.9	490.6	521.1	545.9	565.4
-70°	152.4	174.9	196.6	219.8	246.0	271.1	295.7	319.0	340.7	357.6	370.4
-72.5°	83.1	91.1	101.9	119.7	136.2	151.5	165.5	178.2	189.5	198.9	206.6
-75°	50.5	54.6	61.2	67.6	73.6	79.5	85.0	90.1	94.8	98.6	101.9
-77.5°	38.7	40.9	43.0	45.0	46.8	48.8	50.8	52.6	54.3	55.8	57.2
-80°	30.9	32.1	33.3	34.5	35.5	36.8	38.1	39.3	40.5	41.3	42.1
-82.5°	23.6	24.8	25.9	26.9	27.8	28.5	29.2	29.9	30.6	31.2	31.8
-85°	17.9	18.7	19.6	20.5	21.4	21.6	21.9	22.0	22.2	22.7	23.1
-87.5°	14.7	15.1	15.5	16.0	16.4	16.8	17.2	17.6	17.9	18.3	18.7
-90°	1.5	1.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731618 (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°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.1
87.5°	0.4	0.0	0.7	1.5	0.7	0.0	0.4	0.7	1.1	1.4	1.4
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8
77.5°	2.9	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.8	2.7	2.7
75°	3.0	3.0	3.7	4.5	3.7	3.0	3.0	3.0	3.0	3.1	3.7
72.5°	6.2	6.0	6.0	6.0	6.0	6.0	6.2	6.4	6.5	6.6	7.0
70°	9.8	10.3	10.5	10.5	10.5	10.3	9.8	9.3	8.9	8.9	9.8
67.5°	10.9	10.6	9.1	7.5	9.1	10.6	10.9	11.1	11.2	11.6	12.4
65°	9.2	9.1	8.3	7.5	8.3	9.1	9.2	9.4	9.7	10.8	12.4
62.5°	7.7	7.6	7.5	7.5	7.5	7.6	7.7	7.8	7.9	8.8	10.1
60°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.7
57.5°	8.3	8.8	9.0	9.0	9.0	8.8	8.3	7.9	7.5	7.9	8.3
55°	9.7	10.2	10.5	10.5	10.5	10.2	9.7	9.1	8.5	8.7	8.8
52.5°	11.0	10.7	11.0	12.0	11.0	10.7	11.0	11.0	10.8	10.5	10.4
50°	13.1	13.3	13.5	13.5	13.5	13.3	13.1	13.0	12.9	12.8	12.3
47.5°	16.6	16.5	16.4	16.5	16.4	16.5	16.6	16.4	16.4	16.2	15.1
45°	24.6	25.0	25.7	27.0	25.7	25.0	24.6	23.7	30.5	31.7	23.1
42.5°	38.9	39.8	40.2	40.5	40.2	39.8	38.9	37.2	57.6	76.5	85.5
40°	92.7	73.7	55.1	55.5	55.1	73.7	92.7	97.7	91.5	107.8	116.8
37.5°	106.4	96.8	92.9	91.5	92.9	96.8	106.4	121.1	118.1	92.3	108.8
35°	201.6	205.1	200.5	202.6	200.5	205.1	201.6	201.9	191.2	158.1	182.8
32.5°	496.3	516.4	509.3	511.7	509.3	516.4	496.3	482.6	439.6	399.7	384.4
30°	1031.0	1092.9	1107.0	1103.0	1107.0	1092.9	1031.0	992.1	895.7	822.3	724.5
27.5°	1665.4	1714.5	1724.6	1715.2	1724.6	1714.5	1665.4	1634.9	1559.2	1419.0	1224.3
25°	2353.9	2400.7	2427.1	2414.5	2427.1	2400.7	2353.9	2292.6	2181.6	2055.1	1895.8
22.5°	4380.4	4593.1	4696.7	4838.0	4696.7	4593.1	4380.4	3621.2	2965.5	2746.7	2523.4
20°	12918.7	14387.3	14109.0	13805.8	14109.0	14387.3	12918.7	8575.0	6301.4	3920.6	3245.2
17.5°	32246.9	39467.4	42905.7	41506.0	42905.7	39467.4	32246.9	23255.3	16018.7	8286.2	4874.3
15°	65954.1	86128.6	97924.4	94775.5	97924.4	86128.6	65954.1	45677.2	31543.2	19160.4	8806.8
12.5°	119476.5	151539.6	176103.0	179619.0	176103.0	151539.6	119476.5	85233.9	49698.5	32113.2	17142.3
10°	187895.6	247145.2	295973.2	311915.6	295973.2	247145.2	187895.6	130893.2	82996.0	46435.5	23801.4
7.5°	269447.8	348542.2	404854.4	420506.7	404854.4	348542.2	269447.8	181112.0	113708.6	66561.2	33665.1
5°	334853.8	425880.8	488240.1	507394.1	488240.1	425880.8	334853.8	229161.3	143409.5	82562.9	39870.3
2.5°	383844.9	479323.6	548861.1	580634.8	548861.1	479323.6	383844.9	268476.7	159564.9	88183.7	40903.8
0°	402823.2	499038.6	577014.4	622170.0	577014.4	499038.6	402823.2	285557.0	166853.9	92039.8	42564.0
-2.5°	384258.2	473711.4	533758.0	563368.4	533758.0	473711.4	384258.2	267234.3	160117.3	90648.1	41990.6
-5°	319907.3	399061.6	450843.7	471748.0	450843.7	399061.6	319907.3	220263.8	136148.5	79624.9	38779.5
-7.5°	229221.4	294197.5	332795.3	350409.1	332795.3	294197.5	229221.4	158723.1	102623.7	59959.0	30616.9
-10°	148922.8	184888.1	223805.0	232134.4	223805.0	184888.1	148922.8	101913.3	69786.2	40784.6	20539.9
-12.5°	83899.5	106594.1	125935.9	132916.3	125935.9	106594.1	83899.5	61903.7	37894.7	25541.5	13883.6
-15°	45392.4	58322.8	65289.9	67003.3	65289.9	58322.8	45392.4	32706.2	23176.2	14283.0	7201.5
-17.5°	26061.3	32272.7	35827.0	37458.8	35827.0	32272.7	26061.3	19117.0	12957.2	7304.3	4655.4
-20°	13926.4	17431.2	19432.4	20905.3	19432.4	17431.2	13926.4	9357.2	6566.6	4281.3	3610.3



REPORT NUMBER: P731618 (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°	6396.6	7476.8	8087.3	8777.2	8087.3	7476.8	6396.6	4906.9	3874.8	3468.5	3214.5
-25°	3856.1	4001.4	4089.0	4159.8	4089.0	4001.4	3856.1	3633.6	3377.4	3201.9	3056.6
-27.5°	3491.8	3539.4	3566.8	3595.5	3566.8	3539.4	3491.8	3407.2	3308.7	3314.2	3337.4
-30°	3566.2	3518.0	3501.3	3483.0	3501.3	3518.0	3566.2	3607.2	3654.9	3744.2	3905.6
-32.5°	4058.4	3964.7	3914.4	3867.1	3914.4	3964.7	4058.4	4140.5	4222.1	4279.9	4330.2
-35°	4657.2	4615.0	4592.8	4564.9	4592.8	4615.0	4657.2	4668.2	4639.7	4607.7	4579.8
-37.5°	4985.3	4978.0	4976.7	4962.6	4976.7	4978.0	4985.3	4970.3	4881.1	4806.7	4656.7
-40°	5090.9	5088.0	5080.6	5073.6	5080.6	5088.0	5090.9	5074.0	4928.0	4768.4	4481.3
-42.5°	5056.9	5102.2	5124.0	5124.7	5124.0	5102.2	5056.9	4988.6	4732.3	4384.0	3861.5
-45°	4657.4	4888.1	5022.4	5058.6	5022.4	4888.1	4657.4	4347.1	3860.2	3302.3	2731.3
-47.5°	3212.5	3538.1	3788.9	3946.7	3788.9	3538.1	3212.5	2843.7	2429.5	2001.3	1596.4
-50°	1651.4	1693.8	1736.5	1778.3	1736.5	1693.8	1651.4	1606.1	1554.1	1490.0	1421.4
-52.5°	1516.9	1534.6	1545.6	1551.7	1545.6	1534.6	1516.9	1499.3	1477.4	1435.2	1390.3
-55°	1497.7	1514.0	1522.1	1524.6	1522.1	1514.0	1497.7	1480.7	1462.0	1416.4	1371.5
-57.5°	1436.7	1459.7	1473.3	1479.6	1473.3	1459.7	1436.7	1409.0	1376.8	1319.1	1258.1
-60°	1244.0	1264.3	1278.1	1286.0	1278.1	1264.3	1244.0	1218.4	1187.9	1139.5	1084.1
-62.5°	1030.2	1049.1	1059.7	1063.9	1059.7	1049.1	1030.2	1006.3	977.5	936.2	887.0
-65°	803.4	819.8	836.3	849.4	836.3	819.8	803.4	782.6	757.5	723.8	683.2
-67.5°	581.9	595.1	609.7	621.3	609.7	595.1	581.9	565.4	545.9	521.1	490.6
-70°	380.4	387.7	399.5	409.7	399.5	387.7	380.4	370.4	357.6	340.7	319.0
-72.5°	212.8	217.4	226.2	234.1	226.2	217.4	212.8	206.6	198.9	189.5	178.2
-75°	104.7	106.8	107.7	108.0	107.7	106.8	104.7	101.9	98.6	94.8	90.1
-77.5°	58.5	59.6	59.9	60.0	59.9	59.6	58.5	57.2	55.8	54.3	52.6
-80°	42.7	43.3	44.2	45.0	44.2	43.3	42.7	42.1	41.3	40.5	39.3
-82.5°	32.4	32.9	33.0	33.0	33.0	32.9	32.4	31.8	31.2	30.6	29.9
-85°	23.5	24.0	24.0	24.0	24.0	24.0	23.5	23.1	22.7	22.2	22.0
-87.5°	19.1	19.5	19.5	19.5	19.5	19.5	19.1	18.7	18.3	17.9	17.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	15.8	15.4	15.0	14.6	14.3	13.9	13.5	13.1	12.8	12.4	12.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.7	1.9	2.0	2.1
82.5°	1.5	1.5	1.5	1.8	2.0	2.1	2.2	2.3	2.5	2.7	3.0
80°	2.1	2.3	2.5	2.7	3.0	3.2	3.4	3.3	3.1	3.0	3.1
77.5°	2.8	2.9	3.1	3.5	3.8	4.2	4.5	4.4	4.2	4.0	3.8
75°	4.1	4.3	4.5	4.7	4.7	4.5	4.6	4.9	5.0	5.0	4.8
72.5°	7.3	7.6	8.1	8.9	9.1	9.2	8.9	8.2	7.4	6.6	5.9
70°	10.6	11.2	12.7	15.0	16.5	17.2	17.0	15.6	12.8	10.9	9.3
67.5°	13.2	14.0	16.1	19.2	21.6	23.7	25.9	27.3	26.4	23.5	16.5
65°	14.0	15.7	17.5	19.0	21.4	25.1	32.0	35.6	36.9	36.1	28.4
62.5°	11.5	13.2	14.3	15.8	17.8	22.1	31.6	39.0	44.6	44.2	35.5
60°	9.6	10.5	11.3	12.3	13.7	18.4	27.4	37.8	49.5	46.2	39.0
57.5°	8.8	9.3	9.9	10.3	10.5	14.3	21.5	31.2	42.4	41.7	37.9
55°	8.9	9.5	10.1	10.4	10.6	12.5	15.6	21.7	30.4	32.7	31.2
52.5°	10.4	10.5	10.9	11.5	11.8	12.3	13.5	17.0	19.5	22.7	24.4
50°	11.9	11.9	11.8	11.9	12.5	12.8	13.3	14.6	16.2	17.3	17.9
47.5°	14.8	14.6	13.6	13.3	14.1	13.7	13.8	14.1	15.4	16.0	16.0
45°	25.2	24.1	18.5	18.9	19.0	18.5	16.3	17.6	16.7	16.5	16.5
42.5°	62.2	48.2	43.0	34.9	29.6	27.8	25.1	25.1	23.7	19.6	19.7
40°	94.5	77.3	66.4	60.5	50.5	42.3	43.1	35.8	33.6	29.3	28.0
37.5°	110.7	85.5	97.5	92.7	79.6	76.9	76.0	62.2	45.3	53.7	51.6
35°	165.3	156.0	166.2	159.5	131.0	154.2	139.4	108.1	88.9	94.1	86.2
32.5°	337.0	330.6	307.8	284.1	277.5	276.4	250.9	192.0	176.7	164.1	139.2
30°	633.3	586.8	530.5	498.9	488.1	447.9	400.7	409.9	336.6	255.4	209.6
27.5°	1092.6	925.0	843.2	877.9	769.0	679.5	722.3	762.2	568.7	415.0	310.2
25°	1684.4	1442.0	1428.1	1427.8	1261.7	1098.7	1168.2	1172.8	981.7	629.0	447.3
22.5°	2351.8	2111.1	2019.5	2120.0	1927.2	1781.0	1694.5	1631.9	1488.3	1022.2	694.1
20°	2913.9	2702.2	2546.5	2550.9	2579.7	2459.4	2284.3	2117.4	1922.4	1534.2	1008.2
17.5°	3588.2	3203.9	2942.5	2885.1	3006.2	3016.7	2804.0	2544.8	2341.8	2063.1	1367.9
15°	4648.0	3686.9	3295.4	3167.0	3239.4	3301.8	3207.0	2939.7	2741.0	2510.4	1786.0
12.5°	7408.7	4142.3	3592.2	3287.2	3275.4	3439.0	3476.2	3307.6	3051.7	2725.5	2080.0
10°	9964.7	5207.9	3883.7	3467.7	3335.2	3478.4	3580.3	3386.7	3104.3	2834.2	2331.9
7.5°	15489.8	6897.2	4170.0	3616.3	3382.2	3422.6	3509.4	3329.9	3120.7	2909.1	2541.6
5°	19394.5	8139.4	4351.0	3713.9	3414.3	3405.6	3463.6	3231.0	3108.2	2956.6	2708.3
2.5°	21594.2	8775.2	4453.1	3781.6	3441.7	3426.3	3460.9	3169.1	3084.5	2942.1	2734.5
0°	20717.7	8152.9	4404.4	3795.1	3462.0	3475.5	3498.0	3155.8	3056.8	2909.7	2720.6
-2.5°	21230.8	8615.7	4458.2	3794.3	3478.9	3486.6	3670.8	3303.7	3139.3	2941.8	2693.6
-5°	18586.8	7758.5	4272.5	3652.8	3387.9	3421.1	3629.4	3347.4	3145.8	2937.8	2624.5
-7.5°	14414.4	6512.0	4016.9	3478.0	3267.2	3326.3	3465.4	3258.3	3008.8	2814.2	2459.6
-10°	9189.0	4976.6	3708.4	3298.8	3152.9	3240.2	3332.1	3126.8	2864.5	2686.5	2269.1
-12.5°	6429.7	3950.6	3388.0	3101.8	3061.1	3218.5	3262.0	2981.6	2714.5	2557.9	2060.2
-15°	4235.7	3514.5	3182.1	3022.2	3031.9	3179.4	3212.3	2961.5	2741.9	2487.6	1839.5
-17.5°	3602.2	3205.2	3012.5	2992.5	3077.3	3155.4	3167.4	3017.7	2801.1	2443.2	1642.4
-20°	3247.4	3041.2	3016.3	3047.8	3136.4	3196.1	3189.1	3092.4	2828.0	2217.8	1422.7



REPORT NUMBER: P731618 (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°	3056.1	3097.0	3155.0	3193.0	3186.7	3202.7	3182.3	3094.7	2824.6	1904.7	1173.7
-25°	3182.2	3327.1	3465.5	3481.4	3328.8	3209.7	3181.6	3012.7	2422.6	1568.1	936.7
-27.5°	3548.4	3751.2	3902.8	3838.3	3613.4	3316.7	3134.6	2844.6	1941.3	1246.2	915.4
-30°	4056.0	4149.8	4226.3	4181.1	3860.4	3510.5	3119.1	2278.3	1526.5	983.2	892.1
-32.5°	4401.5	4380.4	4383.8	4312.4	4023.9	3595.9	2648.3	1725.8	1115.1	954.4	887.2
-35°	4544.3	4405.7	4302.0	4185.8	4052.8	3005.1	2010.6	1284.9	1008.0	930.3	886.2
-37.5°	4476.5	4230.8	4050.6	3809.3	3049.8	2179.2	1404.0	1086.9	981.6	926.0	881.6
-40°	4174.2	3909.6	3326.2	2693.7	2051.8	1377.3	1163.1	1061.4	991.9	919.6	875.0
-42.5°	3371.1	2830.2	2279.6	1744.2	1296.5	1215.5	1139.2	1071.7	1002.2	929.7	837.0
-45°	2268.6	1815.4	1395.2	1311.3	1232.7	1185.4	1146.9	1083.3	1013.6	903.0	791.3
-47.5°	1465.5	1385.0	1306.6	1256.6	1218.5	1181.1	1146.0	1092.3	967.9	852.5	741.8
-50°	1364.0	1323.3	1284.6	1248.2	1212.6	1177.7	1106.2	1014.8	897.6	785.9	681.8
-52.5°	1342.5	1306.3	1272.3	1238.9	1171.1	1090.2	1006.0	914.6	812.3	707.3	609.8
-55°	1327.6	1266.2	1200.0	1131.3	1058.5	976.6	892.7	804.6	712.2	617.1	527.2
-57.5°	1197.1	1133.5	1064.9	996.3	928.4	847.1	762.5	680.6	603.6	519.6	440.0
-60°	1026.2	967.0	903.6	836.9	767.3	694.5	623.9	555.1	488.7	427.3	365.7
-62.5°	834.9	780.3	723.7	665.2	604.8	543.4	487.7	439.1	390.9	339.9	282.8
-65°	639.8	593.9	545.2	500.7	457.2	414.9	373.4	330.9	287.3	242.4	194.6
-67.5°	457.9	423.0	388.7	356.1	323.8	289.6	253.6	216.8	186.3	157.5	125.6
-70°	295.7	271.1	246.0	219.8	196.6	174.9	152.4	129.3	105.3	89.7	76.9
-72.5°	165.5	151.5	136.2	119.7	101.9	91.1	83.1	74.6	65.1	54.6	46.5
-75°	85.0	79.5	73.6	67.6	61.2	54.6	50.5	47.3	44.2	41.2	38.4
-77.5°	50.8	48.8	46.8	45.0	43.0	40.9	38.7	36.6	35.0	33.3	31.6
-80°	38.1	36.8	35.5	34.5	33.3	32.1	30.9	29.6	28.2	26.9	25.6
-82.5°	29.2	28.5	27.8	26.9	25.9	24.8	23.6	22.7	21.9	21.1	20.4
-85°	21.9	21.6	21.4	20.5	19.6	18.7	17.9	17.6	17.4	17.1	16.9
-87.5°	17.2	16.8	16.4	16.0	15.5	15.1	14.7	14.6	14.5	14.3	14.1
-90°	0.0	0.0	0.0	0.4	0.8	1.1	1.5	1.5	1.5	1.5	1.5





REPORT NUMBER: P731618 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	11.6	11.3	10.9	10.5	10.5	10.5	10.5	10.5	9.8	9.0	8.3
87.5°	1.8	2.0	2.2	2.4	2.5	2.6	2.8	3.0	3.1	3.3	3.3
85°	2.3	2.5	2.7	3.0	3.0	3.0	3.0	3.0	3.3	3.5	3.7
82.5°	3.0	2.9	2.9	3.0	3.2	3.4	3.4	3.4	3.6	3.8	4.0
80°	3.3	3.5	3.5	3.5	3.6	3.8	4.0	4.1	4.2	4.3	4.5
77.5°	3.8	4.0	4.2	4.3	4.2	4.2	4.3	4.6	4.8	4.9	4.9
75°	4.5	4.4	4.4	4.6	4.6	4.5	4.4	4.6	5.0	5.3	5.4
72.5°	5.5	5.2	4.8	4.7	4.9	4.9	4.7	4.7	5.0	5.4	5.7
70°	7.6	6.3	5.7	5.4	5.3	5.4	5.4	5.2	5.1	5.4	5.8
67.5°	10.5	8.7	7.2	6.2	5.8	5.7	5.9	5.8	5.7	5.5	5.8
65°	20.2	13.6	8.9	7.6	6.6	6.0	6.0	6.3	6.2	6.0	5.9
62.5°	27.7	20.6	14.2	9.8	7.6	6.6	6.1	6.6	6.8	6.5	6.2
60°	32.7	24.9	19.1	13.9	9.7	7.4	6.7	6.8	7.1	7.0	6.6
57.5°	31.4	27.2	22.9	17.6	12.6	8.8	7.5	7.4	7.5	7.5	7.1
55°	27.6	24.1	25.1	21.3	15.5	10.7	8.7	8.1	8.0	7.9	7.5
52.5°	22.6	22.7	24.7	23.9	18.9	12.8	10.5	8.9	8.6	8.4	8.0
50°	18.3	21.6	24.6	25.3	22.1	16.6	12.1	10.2	9.3	8.9	8.5
47.5°	16.6	20.6	23.7	26.8	24.8	20.1	14.9	11.6	9.9	9.5	9.0
45°	18.4	20.0	23.1	26.0	27.8	22.9	17.9	12.9	11.0	10.1	9.6
42.5°	22.1	22.5	23.3	25.3	27.6	25.2	20.7	15.2	12.0	10.6	10.1
40°	27.8	27.2	25.1	27.2	27.6	27.1	22.6	17.6	13.0	11.3	10.6
37.5°	35.2	33.7	30.4	32.4	29.6	27.8	24.1	19.7	14.4	12.3	11.0
35°	63.7	42.2	47.5	44.9	36.8	29.2	25.4	21.5	16.5	13.2	11.5
32.5°	100.2	79.3	83.9	66.0	46.5	31.2	26.8	23.3	18.6	14.2	11.9
30°	168.2	166.6	139.0	92.9	61.7	40.3	29.6	25.5	20.5	15.2	12.5
27.5°	283.5	272.7	215.0	144.0	87.5	52.2	34.2	28.0	22.4	16.4	13.3
25°	401.9	383.0	317.9	213.3	117.2	81.2	39.5	30.8	24.3	18.0	14.1
22.5°	529.0	489.6	433.4	294.1	167.4	119.8	54.2	35.1	26.5	19.4	14.8
20°	654.2	594.9	550.0	363.5	229.7	164.5	82.0	39.7	28.7	20.8	15.6
17.5°	804.6	679.1	596.2	432.0	292.0	209.6	114.8	44.7	31.1	22.1	16.3
15°	1040.4	735.1	637.0	492.3	346.1	254.8	151.5	49.8	33.5	23.2	17.0
12.5°	1255.0	787.1	677.2	544.7	392.6	299.6	190.7	55.0	35.8	24.3	17.6
10°	1456.0	835.0	716.4	589.6	432.5	343.6	231.0	60.1	38.0	25.3	18.1
7.5°	1638.1	878.6	753.6	627.3	463.0	371.7	256.1	65.1	40.1	26.3	18.5
5°	1775.2	910.7	781.5	644.2	470.9	381.3	274.8	69.8	42.0	27.1	18.9
2.5°	1788.2	926.8	802.4	653.5	476.0	387.9	289.1	74.2	43.6	27.9	19.2
0°	1761.7	937.9	819.3	657.3	478.7	391.7	298.6	78.0	45.0	28.5	19.5
-2.5°	1736.5	938.3	820.8	668.9	500.3	403.1	309.1	100.3	59.4	36.6	23.2
-5°	1680.0	934.5	818.1	676.0	518.6	412.3	315.4	121.6	73.2	44.3	26.8
-7.5°	1584.0	916.6	806.4	678.0	532.9	419.3	318.4	141.3	86.0	51.5	30.1
-10°	1456.1	888.6	783.6	667.4	539.6	428.3	319.5	158.9	97.6	58.0	33.1
-12.5°	1299.6	857.5	760.4	656.9	543.9	439.1	322.5	173.8	107.7	63.5	35.7
-15°	1115.9	823.8	737.9	647.9	546.9	447.7	322.6	185.9	116.9	68.8	37.7
-17.5°	912.9	787.8	717.2	641.5	549.1	454.3	319.9	195.4	124.3	74.0	40.0
-20°	870.4	771.0	699.9	638.9	551.1	458.9	314.8	201.8	130.0	77.8	42.3



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	856.4	772.8	705.5	636.9	552.8	461.6	307.4	205.0	133.6	80.1	43.6
-25°	839.9	776.2	713.9	636.5	552.6	448.6	303.9	204.8	135.1	80.9	43.9
-27.5°	836.9	781.7	721.5	630.3	543.1	433.8	302.6	205.9	135.0	79.9	43.0
-30°	842.4	788.1	713.9	617.8	529.3	409.3	296.7	204.2	133.7	78.5	41.0
-32.5°	844.4	794.0	695.7	599.4	503.1	383.7	283.0	199.6	130.0	76.1	39.9
-35°	841.1	773.6	670.2	576.0	472.2	363.4	267.1	191.9	123.9	72.0	38.7
-37.5°	833.9	737.0	639.9	545.3	440.7	340.0	252.7	179.7	115.3	66.2	36.7
-40°	792.3	698.4	604.8	510.4	410.8	313.6	235.5	165.5	106.3	58.6	33.9
-42.5°	748.6	656.6	564.8	474.4	378.8	291.4	215.6	148.6	94.7	52.9	30.4
-45°	699.4	610.0	520.5	431.7	344.8	266.3	193.8	129.8	81.3	47.9	27.5
-47.5°	645.4	557.8	470.1	384.6	312.7	238.0	169.0	112.6	66.3	41.9	26.4
-50°	584.8	498.9	413.6	340.8	274.8	206.5	142.8	93.5	58.0	34.7	25.0
-52.5°	517.7	431.7	360.5	297.0	233.2	171.7	118.8	73.7	48.7	31.0	23.5
-55°	441.0	370.9	310.5	248.3	188.3	139.5	92.7	61.8	38.5	28.9	21.9
-57.5°	374.9	314.6	253.5	195.1	147.3	106.1	73.1	48.9	34.0	26.6	20.7
-60°	306.7	247.1	191.0	147.8	108.7	78.7	57.0	38.6	31.1	24.4	19.5
-62.5°	227.7	178.1	139.8	103.5	78.1	58.9	42.3	34.9	27.9	22.9	18.2
-65°	157.8	122.7	91.1	73.2	55.7	42.5	37.6	30.9	25.9	21.4	17.1
-67.5°	95.0	79.5	63.8	48.1	41.5	37.2	32.6	28.3	24.1	19.8	16.4
-70°	63.5	49.9	43.2	39.6	35.9	32.1	29.5	26.2	22.2	18.7	15.6
-72.5°	43.3	40.1	37.0	33.9	31.2	28.8	26.7	24.1	20.6	17.5	14.8
-75°	35.8	33.6	31.4	29.1	27.1	25.3	24.0	22.0	19.0	16.3	13.7
-77.5°	29.8	27.9	26.0	24.6	23.5	22.4	21.3	19.8	17.3	14.9	12.5
-80°	24.4	23.3	22.2	21.2	20.3	19.5	18.8	17.9	15.7	13.5	11.2
-82.5°	19.7	19.2	18.7	18.2	17.7	17.2	16.7	16.1	14.0	12.0	10.2
-85°	16.6	16.3	16.0	15.7	15.3	15.0	14.7	14.3	12.6	11.0	9.6
-87.5°	13.9	13.7	13.4	13.1	12.9	12.7	12.6	12.4	11.2	10.0	8.9
-90°	1.5	1.5	1.5	1.5	1.9	2.3	2.6	3.0	3.0	3.0	3.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	7.5	6.8	6.0	5.3	4.5	4.5	4.5
87.5°	3.4	3.6	3.9	4.2	4.5	4.5	4.5
85°	3.8	3.9	4.0	4.2	4.5	4.6	4.5
82.5°	4.2	4.1	4.1	4.3	4.5	4.6	4.5
80°	4.5	4.3	4.3	4.3	4.5	4.6	4.5
77.5°	4.9	4.6	4.4	4.4	4.5	4.7	4.5
75°	5.3	4.9	4.5	4.4	4.5	4.7	4.5
72.5°	5.7	5.2	4.8	4.5	4.5	4.7	4.5
70°	6.0	5.5	5.0	4.5	4.6	4.8	4.5
67.5°	6.0	5.9	5.3	4.7	4.6	4.8	4.5
65°	6.1	6.1	5.5	4.9	4.6	4.8	4.5
62.5°	6.2	6.2	5.8	5.1	4.7	4.9	4.5
60°	6.3	6.3	6.0	5.2	4.7	4.9	4.5
57.5°	6.6	6.4	6.1	5.4	4.8	5.0	4.5
55°	7.0	6.6	6.3	5.6	5.0	5.0	4.5
52.5°	7.4	6.8	6.5	5.7	5.1	5.1	4.5
50°	7.8	7.1	6.6	5.9	5.3	5.1	4.5
47.5°	8.1	7.4	6.8	6.0	5.4	5.1	4.5
45°	8.6	7.7	7.0	6.2	5.6	5.2	4.5
42.5°	9.1	8.0	7.2	6.3	5.7	5.2	4.5
40°	9.6	8.3	7.4	6.5	5.8	5.3	4.5
37.5°	10.1	8.5	7.6	6.7	6.0	5.3	4.5
35°	10.6	8.9	7.8	6.9	6.1	5.4	4.5
32.5°	11.1	9.3	8.0	7.1	6.2	5.4	4.5
30°	11.5	9.7	8.2	7.3	6.3	5.5	4.5
27.5°	11.8	10.1	8.4	7.4	6.5	5.5	4.5
25°	12.2	10.5	8.7	7.6	6.6	5.6	4.5
22.5°	12.5	10.9	8.9	7.8	6.7	5.6	4.5
20°	12.9	11.1	9.1	8.0	6.8	5.7	4.5
17.5°	13.2	11.4	9.3	8.1	6.9	5.7	4.5
15°	13.4	11.6	9.5	8.3	7.0	5.8	4.5
12.5°	13.7	11.7	9.7	8.4	7.1	5.8	4.5
10°	14.0	11.8	9.9	8.5	7.2	5.8	4.5
7.5°	14.3	11.9	10.1	8.7	7.3	5.9	4.5
5°	14.5	12.0	10.2	8.8	7.4	5.9	4.5
2.5°	14.8	12.0	10.4	8.9	7.4	6.0	4.5
0°	15.0	12.0	10.5	9.0	7.5	6.0	4.5
-2.5°	16.4	12.7	10.8	9.1	7.6	6.0	4.5
-5°	17.7	13.3	11.0	9.2	7.6	6.1	4.5
-7.5°	19.0	13.9	11.2	9.3	7.7	6.1	4.5
-10°	20.1	14.4	11.4	9.3	7.7	6.1	4.5
-12.5°	21.1	14.9	11.6	9.4	7.8	6.1	4.5
-15°	22.0	15.3	11.8	9.4	7.8	6.1	4.5
-17.5°	22.6	15.7	11.9	9.5	7.8	6.1	4.5
-20°	23.4	15.9	12.0	9.5	7.8	6.2	4.5



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	24.2	16.1	12.0	9.5	7.8	6.2	4.5
-25°	24.6	16.3	12.0	9.5	7.9	6.1	4.5
-27.5°	24.5	16.3	12.0	9.5	7.9	6.1	4.5
-30°	24.0	16.3	11.9	9.5	7.8	6.1	4.5
-32.5°	22.9	16.2	11.9	9.5	7.8	6.1	4.5
-35°	22.4	16.0	11.8	9.5	7.8	6.1	4.5
-37.5°	22.1	15.7	11.7	9.4	7.8	6.1	4.5
-40°	21.6	15.6	11.6	9.4	7.8	6.0	4.5
-42.5°	21.0	15.3	11.5	9.4	7.7	6.0	4.5
-45°	20.2	15.0	11.4	9.3	7.7	5.9	4.5
-47.5°	19.3	14.6	11.4	9.3	7.6	5.9	4.5
-50°	18.6	14.2	11.3	9.2	7.6	5.8	4.5
-52.5°	17.9	13.6	11.2	9.1	7.5	5.8	4.5
-55°	17.1	13.3	11.0	9.0	7.4	5.7	4.5
-57.5°	16.2	13.1	10.8	8.9	7.4	5.6	4.5
-60°	15.3	12.8	10.6	8.7	7.3	5.6	4.5
-62.5°	14.8	12.5	10.3	8.5	7.1	5.5	4.5
-65°	14.3	12.1	10.0	8.3	6.9	5.4	4.5
-67.5°	13.8	11.6	9.6	8.1	6.7	5.3	4.5
-70°	13.2	11.0	9.2	7.9	6.5	5.3	4.5
-72.5°	12.3	10.3	8.7	7.6	6.3	5.2	4.5
-75°	11.3	9.6	8.3	7.2	6.0	5.1	4.5
-77.5°	10.2	8.9	7.9	6.9	5.8	5.0	4.5
-80°	9.1	8.3	7.5	6.6	5.5	4.9	4.5
-82.5°	8.6	7.9	7.2	6.3	5.3	4.8	4.5
-85°	8.3	7.5	6.8	5.9	5.0	4.7	4.5
-87.5°	7.9	7.2	6.4	5.6	4.8	4.6	4.5
-90°	3.0	3.4	3.8	4.1	4.5	4.5	4.5

(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

