

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: P701608 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-70-2S-CV2-S**

Issue Date: 8/29/2023

**Test Information**

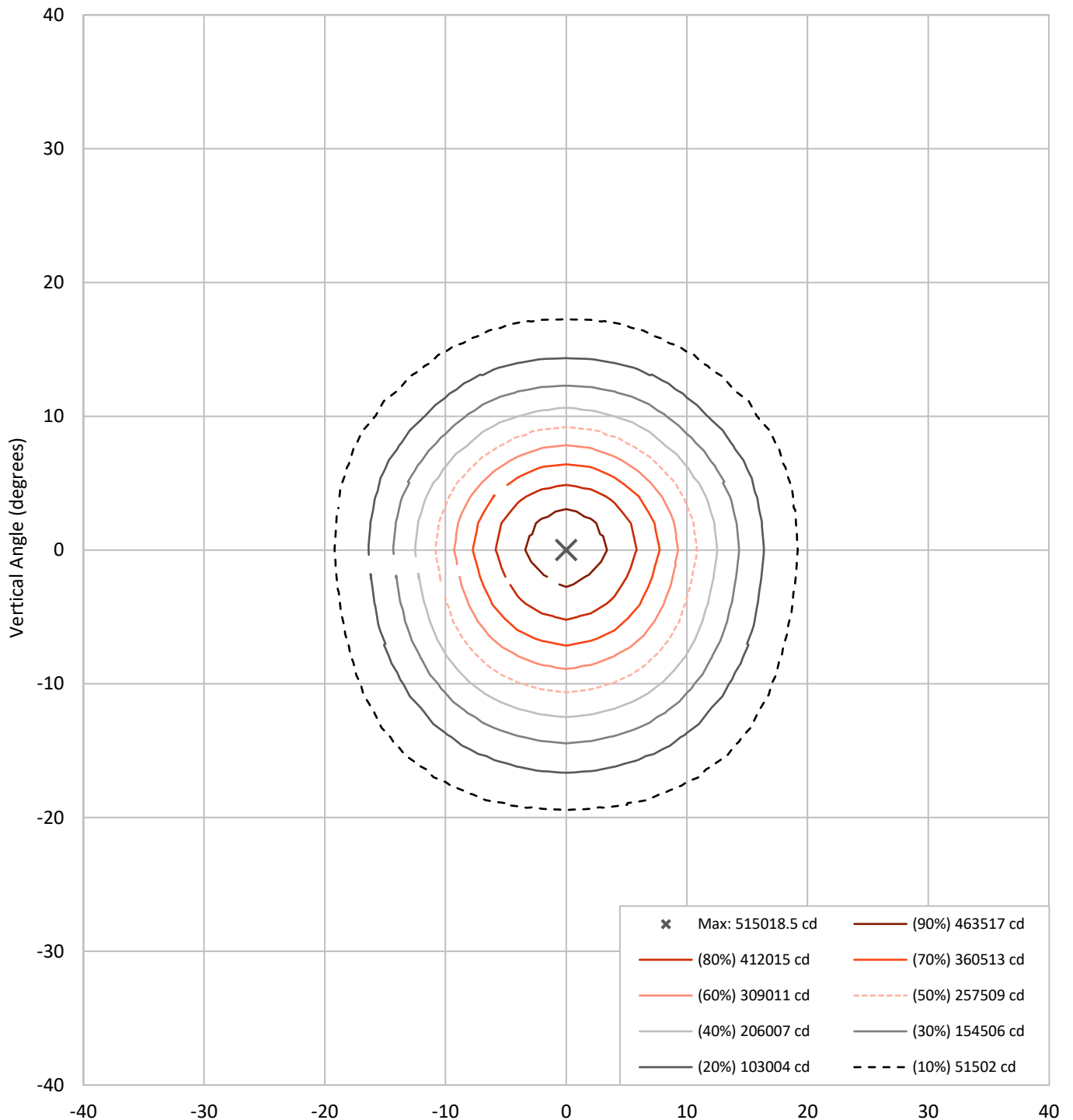
Test Method: LM-79-08  
Report Number: P701608 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0680R-40-70-2S-CV2-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 2S 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:	79725.9 lumens	Max Intensity:	515018.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	113.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	21.7°H x 19.8°V	Field Angle (10%):	38.4°H x 36.6°V
Beam Lumens:	36856.6 lumens	Field Lumens:	68754.8 lumens
Beam Efficiency:	46.2%	Field Efficiency:	86.2%
Input Watts (W):	703.6		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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### Iso-Candela Plot





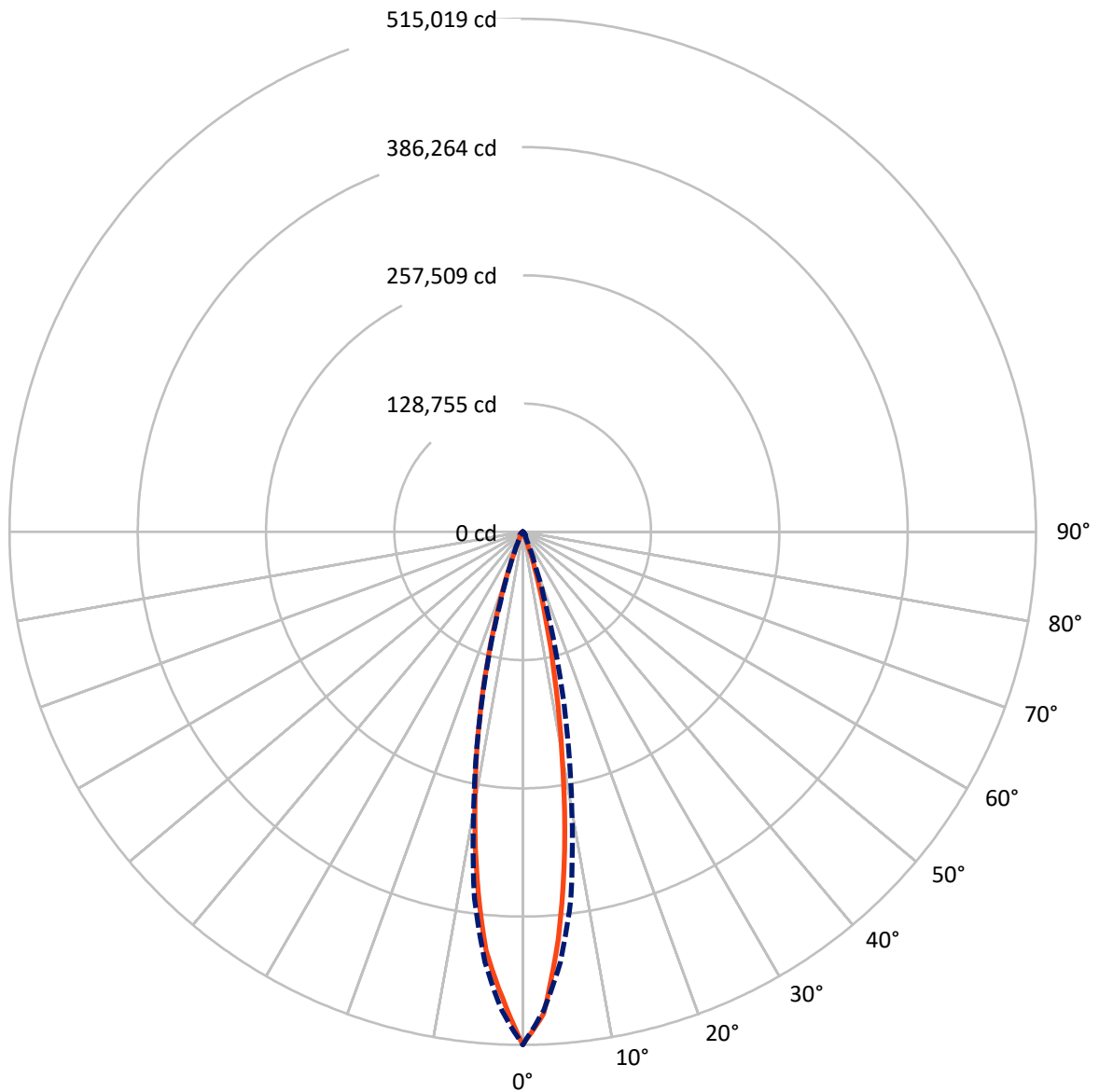
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### Lumen Table

90	0.2	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.2					
80	0.2	0.1	0.2	0.7	0.8	0.5	0.3	0.3	0.3	0.3	0.5	0.8	0.7	0.2	0.1	0.2
70	0.2	0.1	0.4	0.7	0.5	0.4	0.3	0.3	0.3	0.3	0.4	0.5	0.7	0.4	0.1	0.2
60	0.2	0.2	0.5	0.6	0.8	1.1	1.4	1.6	1.6	1.4	1.1	0.8	0.6	0.5	0.2	0.2
50	0.2	0.3	1.0	2.2	4.6	7.4	9.0	10.4	10.4	9.0	7.4	4.6	2.2	1.0	0.3	0.2
40	0.2	0.5	3.3	11.2	29.6	43.5	76.1	167.5	167.5	76.1	43.5	29.6	11.2	3.3	0.5	0.3
30	0.3	1.1	7.5	28.8	67.8	132.6	824.0	2570.9	2570.9	824.0	132.6	67.8	28.8	7.5	1.1	0.3
20	0.3	2.1	12.8	53.3	110.7	356.8	3367.4	10030.1	10030.1	3367.4	356.8	110.7	53.3	12.8	2.1	0.4
10	0.4	3.4	16.7	62.6	124.1	358.1	3568.7	10457.1	10457.1	3568.7	358.1	124.1	62.6	16.7	3.4	0.4
0	0.4	3.9	17.0	57.8	122.5	204.8	1313.9	3792.0	3792.0	1313.9	204.8	122.5	57.8	17.0	3.9	0.7
-10	0.7	3.6	14.4	34.5	87.1	128.1	200.1	391.6	391.6	200.1	128.1	87.1	34.5	14.4	3.6	0.7
-20	0.7	3.1	10.5	21.6	48.2	92.2	119.4	131.2	131.2	119.4	92.2	48.2	21.6	10.5	3.1	0.5
-30	0.5	2.1	7.3	16.0	27.2	45.1	78.3	105.8	105.8	78.3	45.1	27.2	16.0	7.3	2.1	0.5
-40	0.5	1.0	4.3	10.4	18.9	28.3	36.3	40.7	40.7	36.3	28.3	18.9	10.4	4.3	1.0	0.3
-50	0.3	0.4	1.5	4.9	10.0	16.3	22.9	27.0	27.0	22.9	16.3	10.0	4.9	1.5	0.4	0.3
-60	0.3	0.4	1.5	4.9	10.0	16.3	22.9	27.0	27.0	22.9	16.3	10.0	4.9	1.5	0.4	0.3
-70	0.3	0.4	1.5	4.9	10.0	16.3	22.9	27.0	27.0	22.9	16.3	10.0	4.9	1.5	0.4	0.3
-80	0.2	1.2	3.7	9.3	13.4	9.3	3.7	1.2	0.2							0.2
-90	0.2	1.2	3.7	9.3	13.4	9.3	3.7	1.2	0.2							0.2

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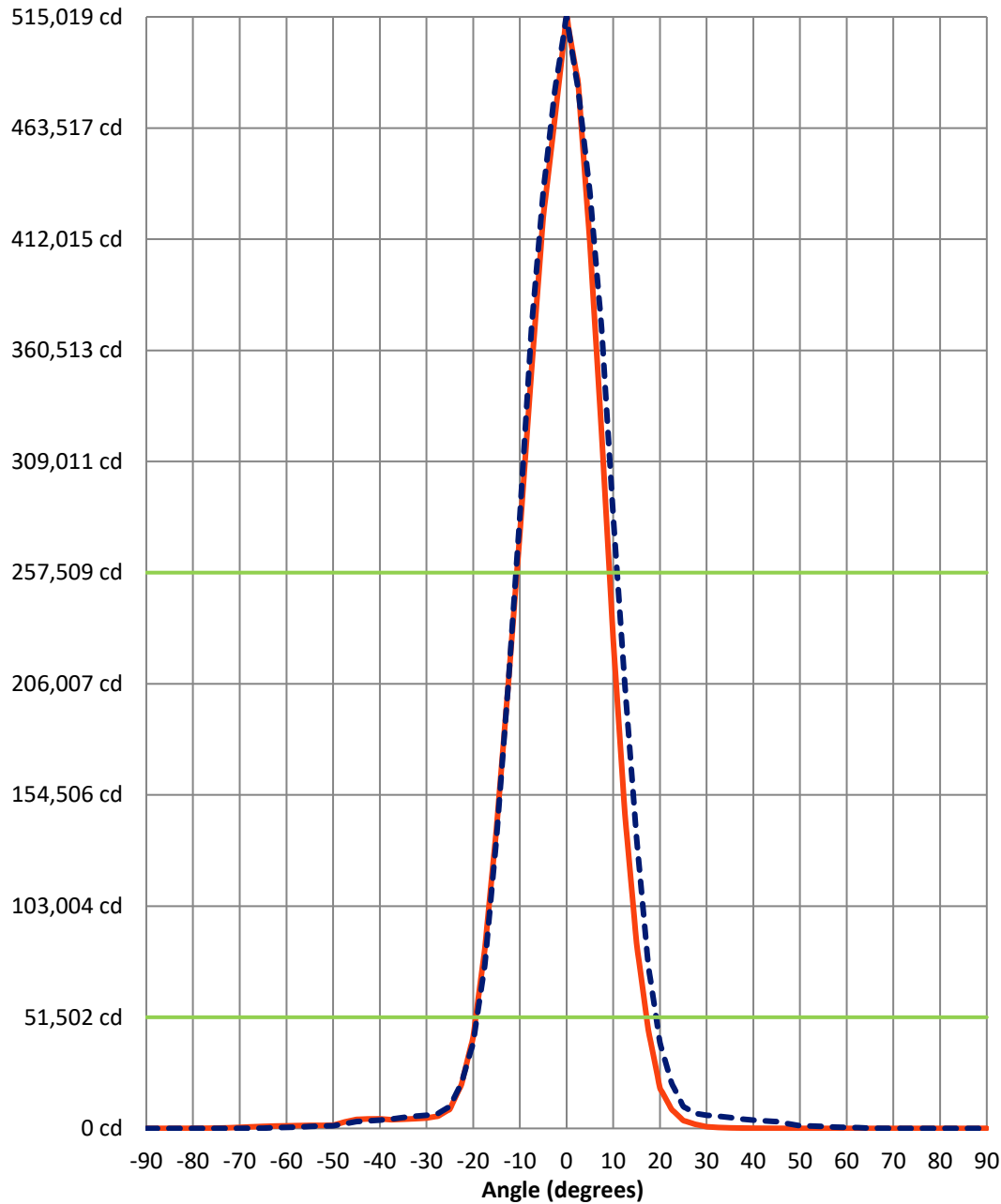
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 21.7°  
 V Angle: 19.8°  
 Lumens: 36856.6  
 Efficiency: 46.2%

**Field:**  
 H Angle: 38.4°  
 V Angle: 36.6°  
 Lumens: 68754.8  
 Efficiency: 86.2%

**Spill:**  
 Lumens: 10971.1  
 Efficiency: 13.8%

- 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°	8.3	8.3	8.3	8.8	9.4	9.9	10.4	10.4	10.4	10.4	10.4
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	7.9	7.6	7.3	7.1
85°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.1	8.0	7.9	8.0
82.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
80°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
75°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
72.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
70°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.4
67.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.4	8.3	8.3	8.6	8.6
65°	8.3	8.3	8.3	8.3	8.3	8.4	8.4	8.3	8.8	9.0	8.7
62.5°	8.3	8.3	8.3	8.3	8.3	8.5	8.6	8.7	9.2	9.3	8.8
60°	8.3	8.3	8.3	8.3	8.3	8.7	8.7	9.2	9.8	9.4	8.9
57.5°	8.3	8.3	8.3	8.3	8.5	8.9	9.1	9.8	10.0	9.5	9.0
55°	8.3	8.3	8.4	8.3	8.7	9.1	9.5	10.3	10.1	9.6	9.2
52.5°	8.3	8.3	8.4	8.3	8.9	9.4	9.9	10.4	10.2	9.7	9.3
50°	8.3	8.3	8.4	8.3	9.2	9.6	10.2	10.4	10.3	9.9	10.9
47.5°	8.3	8.3	8.5	8.3	9.4	9.8	10.4	10.4	10.4	10.0	12.5
45°	8.3	8.3	8.6	8.5	9.7	10.0	10.4	10.4	10.5	10.9	13.6
42.5°	8.3	8.3	8.6	8.7	9.9	10.2	10.4	10.5	10.6	11.7	15.3
40°	8.3	8.3	8.7	9.0	10.1	10.3	10.4	10.6	11.0	12.2	16.8
37.5°	8.3	8.3	8.8	9.2	10.2	10.4	10.4	10.9	11.9	13.5	18.2
35°	8.3	8.3	8.9	9.4	10.3	10.4	10.4	11.1	12.8	15.6	18.9
32.5°	8.3	8.3	9.0	9.6	10.3	10.4	10.5	11.4	13.8	17.9	20.7
30°	8.3	8.3	9.1	9.8	10.4	10.4	10.7	11.8	15.0	20.2	22.8
27.5°	8.3	8.3	9.2	9.9	10.4	10.4	10.9	12.7	16.4	22.5	25.3
25°	8.3	8.3	9.3	10.0	10.4	10.4	11.2	13.6	18.3	24.7	28.2
22.5°	8.3	8.3	9.4	10.1	10.4	10.4	11.4	14.6	20.3	26.9	33.5
20°	8.3	8.3	9.5	10.2	10.4	10.6	11.7	15.5	22.1	29.3	38.6
17.5°	8.3	8.3	9.6	10.3	10.4	10.8	12.1	16.4	24.0	31.8	43.4
15°	8.3	8.3	9.7	10.3	10.4	11.0	12.5	17.3	25.8	34.4	47.9
12.5°	8.3	8.3	9.9	10.4	10.4	11.2	12.9	18.1	27.6	37.0	52.0
10°	8.3	8.3	10.0	10.4	10.4	11.5	13.2	18.8	29.4	41.0	58.4
7.5°	8.3	8.3	10.1	10.4	10.4	11.7	13.6	19.4	31.1	45.4	70.2
5°	8.3	8.3	10.2	10.4	10.4	12.0	13.9	20.0	32.6	49.8	82.4
2.5°	8.3	8.3	10.3	10.4	10.4	12.3	14.2	20.4	34.1	54.1	94.4
0°	8.3	8.3	10.4	10.4	10.4	12.5	14.5	20.8	35.3	58.2	106.0
-2.5°	8.3	8.3	10.4	10.5	10.6	12.9	16.2	25.6	45.7	76.0	136.9
-5°	8.3	8.4	10.4	10.7	10.8	13.4	17.7	30.3	55.7	93.0	166.0
-7.5°	8.3	8.4	10.4	10.8	11.0	13.7	19.2	34.5	64.9	108.9	192.6
-10°	8.3	8.5	10.3	10.9	11.1	14.1	20.6	38.3	73.1	123.3	216.1
-12.5°	8.3	8.5	10.3	11.0	11.3	14.4	21.7	41.5	80.0	135.7	230.0
-15°	8.3	8.6	10.3	11.1	11.5	14.6	22.6	44.0	86.3	145.4	238.3
-17.5°	8.3	8.6	10.3	11.2	11.7	14.8	23.3	46.8	92.1	153.4	243.9
-20°	8.3	8.6	10.2	11.3	11.8	14.9	24.0	49.5	96.4	159.5	246.7



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 CATALOG NUMBER: EPH-LS-08-0680R-40-70-2S-CV2-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	8.3	8.7	10.2	11.3	12.0	14.9	24.8	50.9	99.0	163.7	246.6
-25°	8.3	8.7	10.2	11.4	12.2	15.1	25.1	50.8	99.9	165.7	243.5
-27.5°	8.3	8.7	10.1	11.4	12.4	15.4	24.9	49.2	99.0	165.9	244.6
-30°	8.3	8.8	10.1	11.3	12.5	15.5	24.1	46.0	97.0	164.4	243.3
-32.5°	8.3	8.8	10.1	11.3	12.8	15.4	22.7	44.3	93.3	160.3	239.1
-35°	8.3	8.8	10.1	11.2	13.0	15.3	22.1	42.7	87.2	153.7	232.1
-37.5°	8.3	8.8	10.1	11.1	13.1	15.2	21.9	40.0	78.7	144.5	214.3
-40°	8.3	8.8	10.0	11.0	13.2	15.4	21.5	36.4	67.8	132.8	194.6
-42.5°	8.3	8.8	10.0	10.9	13.1	15.4	20.9	31.9	60.1	114.5	173.1
-45°	8.3	8.8	10.0	10.7	12.9	15.4	20.1	28.4	53.8	94.7	150.1
-47.5°	8.3	8.8	10.0	10.6	12.7	15.2	19.1	27.2	46.1	74.1	127.0
-50°	8.3	8.8	10.0	10.5	12.5	15.0	18.7	25.7	36.6	63.2	102.8
-52.5°	8.3	8.8	10.1	10.6	12.2	14.6	18.1	24.0	31.9	51.3	79.0
-55°	8.3	8.8	10.1	10.6	11.9	14.2	17.5	22.2	29.3	38.6	64.3
-57.5°	8.3	8.8	10.1	10.6	11.5	13.7	16.6	21.0	26.6	33.3	48.7
-60°	8.3	8.8	10.1	10.6	11.2	13.2	15.7	19.7	24.1	30.1	36.4
-62.5°	8.3	8.7	10.0	10.5	11.1	12.7	15.0	18.2	22.4	26.8	32.7
-65°	8.3	8.7	9.9	10.5	11.0	12.1	14.2	16.9	20.7	24.6	29.0
-67.5°	8.3	8.7	9.8	10.5	10.9	11.6	13.3	15.9	18.9	22.6	26.3
-70°	8.3	8.6	9.6	10.4	10.7	11.4	12.4	14.9	17.8	20.6	24.1
-72.5°	8.3	8.6	9.5	10.2	10.6	11.1	11.9	13.9	16.6	19.2	21.9
-75°	8.3	8.6	9.3	10.0	10.4	10.8	11.5	13.2	15.3	17.9	20.4
-77.5°	8.3	8.5	9.2	9.8	10.2	10.5	11.0	12.5	14.4	16.5	18.8
-80°	8.3	8.5	9.0	9.6	10.1	10.3	10.5	11.8	13.5	15.2	17.2
-82.5°	8.3	8.4	8.8	9.4	9.9	10.2	10.4	11.3	12.5	13.9	15.5
-85°	8.3	8.4	8.7	9.2	9.7	10.1	10.4	11.0	11.8	12.7	13.8
-87.5°	8.3	8.3	8.5	9.0	9.5	10.0	10.4	10.7	11.1	11.6	12.1
-90°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	7.8	7.3	6.7	6.2





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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°	10.4	10.4	10.4	10.4	10.9	11.5	12.0	12.5	13.0	13.5	14.0
87.5°	6.9	6.7	6.5	6.2	6.2	6.2	6.2	6.2	5.7	5.2	4.7
85°	7.7	7.3	6.7	6.2	6.2	6.2	6.2	6.2	5.7	5.2	4.7
82.5°	7.8	7.3	6.8	6.2	6.2	6.2	6.2	6.2	5.7	5.2	4.7
80°	7.9	7.3	6.8	6.3	6.2	6.2	6.2	6.2	5.8	5.4	5.1
77.5°	7.9	7.4	6.9	6.3	6.3	6.6	7.0	7.3	7.2	7.0	6.8
75°	7.9	7.4	7.2	7.2	7.5	7.9	8.3	8.3	8.0	7.5	6.9
72.5°	8.1	7.9	7.9	8.3	8.3	8.3	8.3	8.3	9.3	10.7	11.7
70°	8.2	8.3	8.3	8.3	8.3	8.8	11.0	13.9	16.8	19.0	21.8
67.5°	8.3	8.3	8.3	8.5	10.0	12.4	15.7	23.9	33.4	36.4	36.3
65°	8.3	8.3	8.8	10.2	12.3	18.7	27.7	38.8	47.2	45.9	42.9
62.5°	8.3	8.6	9.7	12.8	18.6	27.0	35.7	43.7	51.7	50.4	43.9
60°	8.5	8.8	12.2	18.2	24.5	31.1	39.5	44.7	50.0	51.5	40.6
57.5°	8.6	10.7	16.5	22.7	28.5	33.3	36.5	41.1	44.1	44.7	33.5
55°	9.7	14.0	20.2	26.3	30.4	29.1	31.4	34.3	35.5	32.8	23.7
52.5°	12.4	17.2	23.4	28.5	29.0	26.8	26.2	27.5	25.4	21.7	18.8
50°	14.7	20.2	26.2	29.1	28.4	25.5	21.8	21.2	20.5	19.0	17.2
47.5°	17.0	22.9	28.2	30.1	28.0	25.4	20.9	20.4	20.5	21.7	20.5
45°	19.2	24.6	30.0	30.3	28.8	26.7	24.8	22.7	26.7	28.0	27.9
42.5°	21.1	25.7	30.5	31.0	31.7	31.3	30.7	32.9	35.3	37.5	38.2
40°	21.9	26.4	32.0	36.1	36.2	37.8	42.1	46.0	46.2	49.0	50.6
37.5°	22.2	29.0	36.7	45.8	43.1	48.2	55.3	66.2	67.7	61.4	70.1
35°	22.2	32.6	49.0	59.6	58.2	61.8	78.8	94.6	101.8	91.5	105.6
32.5°	24.4	37.3	64.8	76.2	86.7	90.7	107.1	138.6	156.1	162.7	174.4
30°	29.6	51.9	83.0	95.3	124.9	144.6	158.3	195.9	228.0	325.5	397.8
27.5°	36.1	69.7	101.2	129.3	173.0	206.9	236.5	275.1	393.1	570.6	755.1
25°	42.4	93.7	121.0	173.5	232.7	278.5	319.1	373.9	621.1	984.9	1140.2
22.5°	55.2	121.2	152.6	223.2	297.8	352.1	411.1	559.1	893.1	1439.8	1503.8
20°	76.1	147.7	195.8	278.8	370.0	425.9	504.1	753.7	1201.1	1618.7	1792.0
17.5°	98.5	176.7	243.1	344.6	455.2	518.5	609.9	941.0	1466.4	1838.2	2070.5
15°	121.9	207.6	288.6	416.7	545.2	632.6	821.5	1198.3	1675.9	2095.4	2434.1
12.5°	145.7	239.6	332.0	493.0	639.6	745.3	1078.1	1590.8	2027.1	2419.9	2879.7
10°	169.1	272.1	373.1	571.6	736.5	855.9	1360.6	1989.6	2418.0	2802.2	3273.5
7.5°	216.0	315.8	416.4	649.9	833.8	963.7	1655.9	2385.9	2776.6	3137.2	3599.6
5°	267.3	369.6	483.1	743.2	931.4	1063.1	1925.0	2769.1	3107.2	3432.3	3884.0
2.5°	317.2	420.9	547.5	832.7	1024.7	1149.4	2062.7	2979.6	3317.4	3658.5	4129.6
0°	363.6	469.6	608.9	914.3	1111.7	1230.2	2163.2	3156.5	3493.1	3848.4	4345.1
-2.5°	402.3	519.2	673.6	953.0	1135.8	1250.8	2130.1	3154.8	3558.6	3953.3	4467.2
-5°	434.5	565.6	733.3	985.0	1155.3	1267.7	2064.7	3104.9	3612.7	4037.3	4559.3
-7.5°	459.8	608.3	787.1	1010.0	1167.2	1276.2	2035.9	3125.6	3709.3	4111.0	4619.5
-10°	473.6	625.3	791.0	1009.0	1169.4	1278.1	1972.4	3082.9	3789.5	4176.6	4645.0
-12.5°	455.2	618.2	780.7	998.6	1170.0	1277.3	1850.0	2969.6	3855.2	4239.2	4621.8
-15°	434.7	607.5	764.0	978.1	1170.2	1274.3	1663.0	2781.1	3817.9	4127.4	4525.0
-17.5°	413.3	593.3	740.4	947.0	1170.7	1269.2	1397.2	2376.5	3445.4	3890.7	4368.7
-20°	391.9	575.3	709.9	904.8	1164.4	1235.2	1294.6	1965.7	2902.3	3589.8	4072.8



REPORT NUMBER: P701608 (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°	371.6	553.7	678.8	864.4	1074.2	1176.6	1233.1	1568.1	2343.1	3224.1	3630.9
-25°	360.5	521.9	651.8	802.7	979.9	1115.5	1164.1	1233.7	1849.3	2646.0	3227.5
-27.5°	354.8	494.2	615.6	741.3	892.7	1042.3	1094.8	1155.4	1468.8	2080.2	2803.8
-30°	345.6	458.8	577.5	685.2	820.5	948.4	1025.2	1094.4	1179.6	1639.0	2211.3
-32.5°	324.7	422.0	536.1	641.1	753.3	866.6	974.7	1050.2	1119.7	1244.2	1696.8
-35°	300.4	390.9	493.0	595.3	690.1	800.7	913.1	1011.9	1068.0	1126.0	1325.6
-37.5°	280.2	358.0	449.1	547.9	639.1	739.3	848.4	952.8	1030.4	1083.3	1159.1
-40°	258.3	323.3	409.4	499.4	588.7	679.1	779.5	881.0	977.8	1058.8	1119.8
-42.5°	234.9	297.3	369.8	450.4	535.9	621.0	708.6	805.1	907.0	1012.5	1091.6
-45°	209.2	270.0	330.4	405.8	481.6	560.8	642.2	727.5	830.6	931.7	1031.9
-47.5°	181.6	240.6	298.9	360.6	430.4	501.0	573.9	660.6	751.4	846.8	940.9
-50°	152.9	208.0	266.4	322.6	382.1	444.6	509.4	594.9	681.4	764.0	848.5
-52.5°	125.3	173.3	229.3	286.1	338.8	393.8	456.0	531.1	611.9	691.8	767.1
-55°	96.8	141.2	189.3	244.1	298.4	347.5	406.0	472.7	540.9	616.8	689.7
-57.5°	74.7	108.7	150.8	197.6	250.2	304.2	359.9	416.1	478.4	542.6	605.4
-60°	55.7	80.4	112.7	153.1	196.7	249.4	310.4	366.1	418.9	471.5	528.8
-62.5°	38.6	58.0	80.9	108.9	146.8	190.1	242.4	300.1	361.6	408.1	454.0
-65°	34.4	39.8	55.6	76.5	97.5	133.5	175.1	220.4	272.6	320.2	369.8
-67.5°	30.1	34.9	40.0	48.2	67.0	86.9	108.1	145.0	184.6	218.6	254.1
-70°	27.3	30.1	34.3	38.9	43.6	51.7	69.1	87.6	106.0	125.9	154.3
-72.5°	24.7	27.3	29.9	32.5	36.4	40.5	44.4	48.2	58.7	73.2	86.4
-75°	22.3	24.4	26.8	29.2	31.3	33.6	36.3	39.7	43.0	46.4	50.0
-77.5°	20.2	21.6	23.4	25.6	27.2	28.6	30.3	32.3	34.4	36.4	38.4
-80°	18.0	18.7	19.7	21.0	22.5	23.8	24.9	25.9	27.1	28.6	30.2
-82.5°	16.1	16.6	17.1	17.5	18.3	19.3	20.4	21.5	22.2	22.9	23.7
-85°	14.2	14.5	14.8	15.1	15.5	16.0	16.5	17.1	17.5	17.8	18.2
-87.5°	12.3	12.4	12.6	12.8	13.1	13.4	13.7	13.9	14.1	14.3	14.4
-90°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	5.7	5.2	4.7



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	14.5	14.5	14.5	14.5	14.5	17.6	20.7	23.9	27.0	31.7	36.3
87.5°	4.2	4.1	4.1	4.0	4.0	3.6	3.1	2.6	2.1	1.6	1.1
85°	4.2	4.2	4.2	4.2	4.2	3.7	3.2	2.6	2.1	2.1	2.1
82.5°	4.2	4.2	4.2	4.2	4.2	3.7	3.2	2.7	2.1	2.1	2.1
80°	4.8	4.8	4.7	4.5	4.2	3.7	3.2	2.7	2.1	2.1	2.1
77.5°	6.3	5.8	5.3	4.8	4.3	4.0	3.9	3.8	3.8	3.5	3.1
75°	6.4	6.2	6.4	6.1	5.4	5.1	4.9	4.6	4.3	4.1	4.1
72.5°	12.5	12.5	11.8	11.1	9.9	9.4	9.1	8.5	7.7	7.3	7.0
70°	22.8	22.4	21.5	19.7	16.8	14.5	13.2	11.8	10.4	9.9	10.0
67.5°	33.1	29.7	26.9	23.7	19.6	16.6	15.0	13.2	11.3	10.4	10.4
65°	38.3	31.3	26.6	23.1	20.5	17.5	14.8	12.4	10.1	9.0	9.3
62.5°	36.3	27.1	21.4	18.1	15.7	14.1	12.0	10.3	9.0	8.4	8.4
60°	30.2	20.2	15.2	13.6	12.0	10.5	9.8	8.9	7.9	6.9	7.2
57.5°	23.5	16.2	12.4	11.8	11.2	10.6	9.7	8.8	8.1	7.6	8.0
55°	17.5	14.5	12.6	12.7	12.4	11.4	10.3	10.1	9.9	9.6	9.9
52.5°	15.3	15.2	15.8	15.6	14.2	13.1	12.3	12.3	12.5	12.9	13.4
50°	17.4	18.0	17.7	16.3	16.0	15.5	14.5	15.4	16.6	17.1	17.5
47.5°	20.7	21.1	21.3	20.0	20.3	21.8	22.1	22.8	25.1	26.8	28.4
45°	26.6	28.9	29.5	30.3	30.9	34.1	35.6	36.4	42.9	45.9	46.3
42.5°	38.4	42.0	44.8	49.3	48.7	56.5	66.5	71.9	71.5	69.4	69.4
40°	56.2	62.4	76.1	83.4	91.4	100.4	101.3	90.2	90.4	101.6	101.0
37.5°	86.7	108.0	127.4	144.5	148.8	143.6	145.5	153.9	164.0	164.9	169.9
35°	146.2	189.3	199.3	212.4	226.8	213.2	211.5	225.1	220.4	243.8	260.6
32.5°	252.7	313.9	332.4	348.3	388.7	365.4	300.9	394.8	373.7	399.9	439.6
30°	402.0	522.2	603.1	627.3	637.5	640.3	700.9	754.7	797.3	854.1	934.6
27.5°	761.3	841.1	975.6	1051.0	956.0	995.2	1150.9	1179.2	1339.6	1514.0	1657.1
25°	1157.8	1247.3	1486.5	1516.6	1437.3	1583.0	1733.7	1764.9	2047.8	2253.2	2744.8
22.5°	1516.2	1666.1	1922.1	1994.8	2060.9	2234.2	2409.1	2617.8	3255.2	4045.6	5480.0
20°	1819.5	1986.8	2237.1	2439.2	2604.2	2825.2	3029.1	3741.5	5114.5	8117.5	11383.9
17.5°	2186.6	2290.3	2599.7	2869.9	3128.6	3445.2	4346.2	6145.7	10120.4	16663.6	22865.2
15°	2681.3	2887.5	3079.4	3371.9	3854.9	4775.9	6763.9	12625.5	20941.0	32354.0	46490.6
12.5°	3251.8	3536.1	3802.3	4050.4	4743.2	6915.5	13259.0	23423.7	37402.2	55736.1	83480.2
10°	3761.2	4195.5	4522.4	4955.2	6297.2	10521.4	20314.0	34684.2	59247.1	91641.5	127847.7
7.5°	4114.8	4631.0	5071.8	5715.3	7903.5	15059.9	28616.3	50994.9	85910.3	129559.6	178400.7
5°	4451.4	5033.4	5466.0	6257.6	8965.6	18212.6	34909.1	64590.4	112007.5	169683.9	232390.9
2.5°	4769.3	5388.6	5814.0	6743.4	9636.2	19649.6	37544.9	73042.4	128888.2	197206.1	271680.4
0°	5064.1	5650.0	6094.7	6971.6	10202.9	21029.2	39787.2	75767.5	134591.2	205309.2	283641.0
-2.5°	5009.0	5444.6	5937.0	6816.0	9663.8	19549.9	37174.0	72566.7	127895.7	195636.1	267688.0
-5°	4989.8	5343.0	5787.5	6584.3	8998.0	16892.5	33016.2	65339.8	116925.2	177972.8	245082.6
-7.5°	5004.5	5285.0	5632.5	6291.5	8193.9	14282.3	28706.1	56641.6	99249.7	150937.0	211539.9
-10°	5035.9	5252.9	5605.2	6184.8	7516.6	11415.6	21724.6	43639.8	78035.6	119146.2	166368.3
-12.5°	5090.2	5382.5	5736.1	6130.0	6835.8	9092.6	17085.8	33876.4	57697.1	86579.2	122511.0
-15°	5071.6	5448.5	5847.8	6091.1	6475.4	7731.6	11082.5	22368.2	39921.5	59076.7	80822.2
-17.5°	4935.0	5386.2	5561.7	5750.4	5984.2	6603.0	8473.4	13490.5	23486.1	36072.1	48306.4
-20°	4617.9	4846.1	5065.7	5290.9	5549.8	5891.3	6473.1	8427.5	11354.4	18496.3	24466.9



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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°	4022.6	4242.3	4432.5	4797.9	5059.2	5310.1	5630.5	6053.5	7179.2	8947.6	11886.5
-25°	3512.0	3647.4	3915.0	4341.5	4622.4	4772.6	4973.6	5134.0	5519.9	5930.6	6945.8
-27.5°	3103.9	3306.9	3636.6	4010.2	4279.3	4400.2	4505.8	4600.2	4842.5	5010.5	5298.7
-30°	2781.1	3109.6	3418.6	3760.5	4008.0	4151.6	4196.6	4332.7	4490.8	4610.7	4727.4
-32.5°	2317.8	2895.9	3177.0	3460.1	3739.7	3916.5	4037.7	4144.9	4293.2	4385.3	4431.2
-35°	1819.1	2410.9	2964.3	3154.2	3357.5	3611.5	3818.2	3927.3	4024.9	4113.6	4169.6
-37.5°	1372.8	1857.6	2372.8	2836.1	3053.7	3243.8	3544.5	3726.5	3814.9	3947.3	4022.6
-40°	1190.6	1328.2	1767.7	2201.5	2592.0	3024.9	3317.4	3598.0	3875.5	4045.6	4156.0
-42.5°	1149.7	1205.9	1258.1	1562.2	1952.5	2344.7	2775.9	3252.0	3650.2	3950.1	4228.7
-45°	1116.8	1159.5	1201.5	1249.1	1294.8	1594.8	1932.0	2286.9	2745.0	3188.6	3571.6
-47.5°	1031.7	1112.5	1159.8	1195.7	1233.0	1274.5	1312.7	1393.2	1701.3	2028.9	2340.0
-50°	934.9	1015.1	1086.9	1153.3	1201.3	1233.6	1257.6	1289.2	1326.0	1358.7	1388.7
-52.5°	839.6	917.4	990.4	1062.6	1130.3	1192.7	1250.2	1286.6	1314.5	1339.1	1354.3
-55°	759.6	826.6	892.0	963.4	1033.1	1099.4	1161.9	1218.2	1271.0	1320.4	1348.7
-57.5°	672.0	738.0	803.5	869.4	932.9	993.9	1054.2	1113.1	1168.9	1219.9	1250.8
-60°	585.3	640.9	705.9	773.6	836.9	895.8	956.0	1013.0	1065.8	1110.7	1138.3
-62.5°	504.0	555.7	609.8	670.0	735.1	798.7	852.1	906.1	960.0	1006.4	1038.1
-65°	417.7	461.1	505.0	552.1	601.9	653.9	707.4	760.0	811.3	853.3	883.4
-67.5°	295.6	338.6	380.5	422.4	460.7	499.1	540.1	581.5	622.6	656.3	683.0
-70°	182.2	209.1	234.5	261.7	293.6	327.1	361.2	393.2	422.7	444.6	460.8
-72.5°	98.3	109.2	122.2	142.5	161.5	181.4	202.1	221.9	240.6	254.4	264.7
-75°	53.8	58.7	67.2	75.1	82.6	91.4	100.5	109.0	116.8	124.6	131.8
-77.5°	40.8	43.3	45.5	47.4	49.2	52.3	55.8	59.4	62.9	67.6	72.6
-80°	31.8	33.1	34.3	35.6	36.8	39.0	41.2	43.5	45.7	47.9	50.0
-82.5°	24.6	25.2	25.7	26.3	26.8	28.1	29.6	31.0	32.3	34.6	36.9
-85°	18.5	19.0	19.4	19.7	20.0	21.1	22.2	23.3	24.5	26.2	27.8
-87.5°	14.5	14.9	15.4	15.9	16.4	17.2	17.8	18.4	19.0	20.5	22.0
-90°	4.2	3.7	3.2	2.6	2.1	2.1	2.1	2.1	2.1	1.6	1.1



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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°	41.0	45.7	48.8	51.9	48.8	45.7	41.0	36.3	31.7	27.0	23.9
87.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.6	2.1	2.6
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.7
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.7
77.5°	2.6	2.1	2.1	2.1	2.1	2.1	2.6	3.1	3.5	3.8	3.8
75°	4.1	4.2	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.3	4.6
72.5°	6.6	6.2	6.2	6.2	6.2	6.2	6.6	7.0	7.3	7.7	8.5
70°	10.1	10.3	10.4	10.4	10.4	10.3	10.1	10.0	9.9	10.4	11.8
67.5°	10.4	10.4	9.4	8.3	9.4	10.4	10.4	10.4	10.4	11.3	13.2
65°	9.8	10.3	9.5	8.3	9.5	10.3	9.8	9.3	9.0	10.1	12.4
62.5°	8.4	8.4	8.3	8.3	8.3	8.4	8.4	8.4	8.4	9.0	10.3
60°	7.6	8.1	8.3	8.3	8.3	8.1	7.6	7.2	6.9	7.9	8.9
57.5°	8.2	8.3	9.1	10.4	9.1	8.3	8.2	8.0	7.6	8.1	8.8
55°	10.1	10.3	10.4	10.4	10.4	10.3	10.1	9.9	9.6	9.9	10.1
52.5°	13.9	14.2	14.4	14.5	14.4	14.2	13.9	13.4	12.9	12.5	12.3
50°	18.0	18.4	17.9	16.6	17.9	18.4	18.0	17.5	17.1	16.6	15.4
47.5°	29.8	30.5	30.3	29.1	30.3	30.5	29.8	28.4	26.8	25.1	22.8
45°	47.5	47.6	47.4	47.8	47.4	47.6	47.5	46.3	45.9	42.9	36.4
42.5°	71.2	71.8	72.1	72.7	72.1	71.8	71.2	69.4	69.4	71.5	71.9
40°	102.9	103.4	102.2	99.7	102.2	103.4	102.9	101.0	101.6	90.4	90.2
37.5°	178.6	182.6	181.5	178.7	181.5	182.6	178.6	169.9	164.9	164.0	153.9
35°	266.6	264.2	257.1	257.7	257.1	264.2	266.6	260.6	243.8	220.4	225.1
32.5°	416.5	431.4	436.1	438.5	436.1	431.4	416.5	439.6	399.9	373.7	394.8
30°	991.4	961.4	828.5	787.6	828.5	961.4	991.4	934.6	854.1	797.3	754.7
27.5°	1761.1	1856.0	1942.9	1951.2	1942.9	1856.0	1761.1	1657.1	1514.0	1339.6	1179.2
25°	3252.4	3572.0	3706.6	3688.4	3706.6	3572.0	3252.4	2744.8	2253.2	2047.8	1764.9
22.5°	7176.0	8266.4	8834.7	8854.3	8834.7	8266.4	7176.0	5480.0	4045.6	3255.2	2617.8
20°	15658.0	18289.6	18954.2	18755.9	18954.2	18289.6	15658.0	11383.9	8117.5	5114.5	3741.5
17.5°	32285.2	40070.2	45385.2	45751.0	45385.2	40070.2	32285.2	22865.2	16663.6	10120.4	6145.7
15°	62836.7	77147.2	84568.3	85829.2	84568.3	77147.2	62836.7	46490.6	32354.0	20941.0	12625.5
12.5°	109770.8	131552.6	143671.8	145745.8	143671.8	131552.6	109770.8	83480.2	55736.1	37402.2	23423.7
10°	167435.2	197815.5	217569.4	226486.0	217569.4	197815.5	167435.2	127847.7	91641.5	59247.1	34684.2
7.5°	226603.4	274465.2	313552.1	322414.2	313552.1	274465.2	226603.4	178400.7	129559.6	85910.3	50994.9
5°	299802.3	363977.5	401513.4	410182.0	401513.4	363977.5	299802.3	232390.9	169683.9	112007.5	64590.4
2.5°	354083.5	423082.7	462424.5	484044.1	462424.5	423082.7	354083.5	271680.4	197206.1	128888.2	73042.4
0°	370928.9	433713.2	481010.2	515018.5	481010.2	433713.2	370928.9	283641.0	205309.2	134591.2	75767.5
-2.5°	348128.2	414699.3	449018.4	468138.1	449018.4	414699.3	348128.2	267688.0	195636.1	127895.7	72566.7
-5°	311854.8	373048.6	410475.9	422014.1	410475.9	373048.6	311854.8	245082.6	177972.8	116925.2	65339.8
-7.5°	264331.7	309019.8	337049.3	351182.8	337049.3	309019.8	264331.7	211539.9	150937.0	99249.7	56641.6
-10°	212892.1	246808.2	267715.4	275534.8	267715.4	246808.2	212892.1	166368.3	119146.2	78035.6	43639.8
-12.5°	155930.0	182943.6	199005.6	205202.2	199005.6	182943.6	155930.0	122511.0	86579.2	57697.1	33876.4
-15°	102921.1	122393.9	134748.7	139063.0	134748.7	122393.9	102921.1	80822.2	59076.7	39921.5	22368.2
-17.5°	62380.3	73129.3	81127.0	83144.4	81127.0	73129.3	62380.3	48306.4	36072.1	23486.1	13490.5
-20°	33010.6	37847.6	40549.0	42376.4	40549.0	37847.6	33010.6	24466.9	18496.3	11354.4	8427.5



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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°	15649.5	18283.7	19497.8	20424.5	19497.8	18283.7	15649.5	11886.5	8947.6	7179.2	6053.5
-25°	7832.0	8376.8	8614.1	8945.7	8614.1	8376.8	7832.0	6945.8	5930.6	5519.9	5134.0
-27.5°	5493.5	5621.4	5671.8	5712.4	5671.8	5621.4	5493.5	5298.7	5010.5	4842.5	4600.2
-30°	4787.3	4808.3	4805.2	4802.2	4805.2	4808.3	4787.3	4727.4	4610.7	4490.8	4332.7
-32.5°	4481.0	4503.4	4501.7	4498.8	4501.7	4503.4	4481.0	4431.2	4385.3	4293.2	4144.9
-35°	4205.6	4234.7	4249.1	4255.7	4249.1	4234.7	4205.6	4169.6	4113.6	4024.9	3927.3
-37.5°	4064.5	4070.8	4054.2	4035.4	4054.2	4070.8	4064.5	4022.6	3947.3	3814.9	3726.5
-40°	4210.2	4309.0	4408.2	4438.6	4408.2	4309.0	4210.2	4156.0	4045.6	3875.5	3598.0
-42.5°	4320.4	4383.9	4412.5	4403.3	4412.5	4383.9	4320.4	4228.7	3950.1	3650.2	3252.0
-45°	3824.7	4021.3	4137.9	4166.4	4137.9	4021.3	3824.7	3571.6	3188.6	2745.0	2286.9
-47.5°	2601.0	2821.3	2960.0	3004.8	2960.0	2821.3	2601.0	2340.0	2028.9	1701.3	1393.2
-50°	1417.8	1445.5	1454.7	1446.3	1454.7	1445.5	1417.8	1388.7	1358.7	1326.0	1289.2
-52.5°	1369.3	1385.7	1396.3	1402.6	1396.3	1385.7	1369.3	1354.3	1339.1	1314.5	1286.6
-55°	1372.9	1394.1	1405.7	1411.0	1405.7	1394.1	1372.9	1348.7	1320.4	1271.0	1218.2
-57.5°	1278.1	1301.9	1313.3	1317.4	1313.3	1301.9	1278.1	1250.8	1219.9	1168.9	1113.1
-60°	1163.3	1185.8	1194.6	1196.9	1194.6	1185.8	1163.3	1138.3	1110.7	1065.8	1013.0
-62.5°	1067.5	1094.1	1105.4	1109.6	1105.4	1094.1	1067.5	1038.1	1006.4	960.0	906.1
-65°	909.9	932.7	940.4	941.3	940.4	932.7	909.9	883.4	853.3	811.3	760.0
-67.5°	706.8	727.3	734.5	735.6	734.5	727.3	706.8	683.0	656.3	622.6	581.5
-70°	473.8	483.6	487.8	488.3	487.8	483.6	473.8	460.8	444.6	422.7	393.2
-72.5°	272.8	278.7	280.7	280.5	280.7	278.7	272.8	264.7	254.4	240.6	221.9
-75°	138.2	143.8	145.1	145.5	145.1	143.8	138.2	131.8	124.6	116.8	109.0
-77.5°	77.5	82.3	83.0	83.1	83.0	82.3	77.5	72.6	67.6	62.9	59.4
-80°	51.9	53.8	54.0	54.0	54.0	53.8	51.9	50.0	47.9	45.7	43.5
-82.5°	39.2	41.4	41.6	41.6	41.6	41.4	39.2	36.9	34.6	32.3	31.0
-85°	29.5	31.1	32.2	33.2	32.2	31.1	29.5	27.8	26.2	24.5	23.3
-87.5°	23.5	25.0	26.0	27.0	26.0	25.0	23.5	22.0	20.5	19.0	18.4
-90°	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.6	2.1	2.1



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	20.7	17.6	14.5	14.5	14.5	14.5	14.5	14.0	13.5	13.0	12.5
87.5°	3.1	3.6	4.0	4.0	4.1	4.1	4.2	4.7	5.2	5.7	6.2
85°	3.2	3.7	4.2	4.2	4.2	4.2	4.2	4.7	5.2	5.7	6.2
82.5°	3.2	3.7	4.2	4.2	4.2	4.2	4.2	4.7	5.2	5.7	6.2
80°	3.2	3.7	4.2	4.5	4.7	4.8	4.8	5.1	5.4	5.8	6.2
77.5°	3.9	4.0	4.3	4.8	5.3	5.8	6.3	6.8	7.0	7.2	7.3
75°	4.9	5.1	5.4	6.1	6.4	6.2	6.4	6.9	7.5	8.0	8.3
72.5°	9.1	9.4	9.9	11.1	11.8	12.5	12.5	11.7	10.7	9.3	8.3
70°	13.2	14.5	16.8	19.7	21.5	22.4	22.8	21.8	19.0	16.8	13.9
67.5°	15.0	16.6	19.6	23.7	26.9	29.7	33.1	36.3	36.4	33.4	23.9
65°	14.8	17.5	20.5	23.1	26.6	31.3	38.3	42.9	45.9	47.2	38.8
62.5°	12.0	14.1	15.7	18.1	21.4	27.1	36.3	43.9	50.4	51.7	43.7
60°	9.8	10.5	12.0	13.6	15.2	20.2	30.2	40.6	51.5	50.0	44.7
57.5°	9.7	10.6	11.2	11.8	12.4	16.2	23.5	33.5	44.7	44.1	41.1
55°	10.3	11.4	12.4	12.7	12.6	14.5	17.5	23.7	32.8	35.5	34.3
52.5°	12.3	13.1	14.2	15.6	15.8	15.2	15.3	18.8	21.7	25.4	27.5
50°	14.5	15.5	16.0	16.3	17.7	18.0	17.4	17.2	19.0	20.5	21.2
47.5°	22.1	21.8	20.3	20.0	21.3	21.1	20.7	20.5	21.7	20.5	20.4
45°	35.6	34.1	30.9	30.3	29.5	28.9	26.6	27.9	28.0	26.7	22.7
42.5°	66.5	56.5	48.7	49.3	44.8	42.0	38.4	38.2	37.5	35.3	32.9
40°	101.3	100.4	91.4	83.4	76.1	62.4	56.2	50.6	49.0	46.2	46.0
37.5°	145.5	143.6	148.8	144.5	127.4	108.0	86.7	70.1	61.4	67.7	66.2
35°	211.5	213.2	226.8	212.4	199.3	189.3	146.2	105.6	91.5	101.8	94.6
32.5°	300.9	365.4	388.7	348.3	332.4	313.9	252.7	174.4	162.7	156.1	138.6
30°	700.9	640.3	637.5	627.3	603.1	522.2	402.0	397.8	325.5	228.0	195.9
27.5°	1150.9	995.2	956.0	1051.0	975.6	841.1	761.3	755.1	570.6	393.1	275.1
25°	1733.7	1583.0	1437.3	1516.6	1486.5	1247.3	1157.8	1140.2	984.9	621.1	373.9
22.5°	2409.1	2234.2	2060.9	1994.8	1922.1	1666.1	1516.2	1503.8	1439.8	893.1	559.1
20°	3029.1	2825.2	2604.2	2439.2	2237.1	1986.8	1819.5	1792.0	1618.7	1201.1	753.7
17.5°	4346.2	3445.2	3128.6	2869.9	2599.7	2290.3	2186.6	2070.5	1838.2	1466.4	941.0
15°	6763.9	4775.9	3854.9	3371.9	3079.4	2887.5	2681.3	2434.1	2095.4	1675.9	1198.3
12.5°	13259.0	6915.5	4743.2	4050.4	3802.3	3536.1	3251.8	2879.7	2419.9	2027.1	1590.8
10°	20314.0	10521.4	6297.2	4955.2	4522.4	4195.5	3761.2	3273.5	2802.2	2418.0	1989.6
7.5°	28616.3	15059.9	7903.5	5715.3	5071.8	4631.0	4114.8	3599.6	3137.2	2776.6	2385.9
5°	34909.1	18212.6	8965.6	6257.6	5466.0	5033.4	4451.4	3884.0	3432.3	3107.2	2769.1
2.5°	37544.9	19649.6	9636.2	6743.4	5814.0	5388.6	4769.3	4129.6	3658.5	3317.4	2979.6
0°	39787.2	21029.2	10202.9	6971.6	6094.7	5650.0	5064.1	4345.1	3848.4	3493.1	3156.5
-2.5°	37174.0	19549.9	9663.8	6816.0	5937.0	5444.6	5009.0	4467.2	3953.3	3558.6	3154.8
-5°	33016.2	16892.5	8998.0	6584.3	5787.5	5343.0	4989.8	4559.3	4037.3	3612.7	3104.9
-7.5°	28706.1	14282.3	8193.9	6291.5	5632.5	5285.0	5004.5	4619.5	4111.0	3709.3	3125.6
-10°	21724.6	11415.6	7516.6	6184.8	5605.2	5252.9	5035.9	4645.0	4176.6	3789.5	3082.9
-12.5°	17085.8	9092.6	6835.8	6130.0	5736.1	5382.5	5090.2	4621.8	4239.2	3855.2	2969.6
-15°	11082.5	7731.6	6475.4	6091.1	5847.8	5448.5	5071.6	4525.0	4127.4	3817.9	2781.1
-17.5°	8473.4	6603.0	5984.2	5750.4	5561.7	5386.2	4935.0	4368.7	3890.7	3445.4	2376.5
-20°	6473.1	5891.3	5549.8	5290.9	5065.7	4846.1	4617.9	4072.8	3589.8	2902.3	1965.7





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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°	5630.5	5310.1	5059.2	4797.9	4432.5	4242.3	4022.6	3630.9	3224.1	2343.1	1568.1
-25°	4973.6	4772.6	4622.4	4341.5	3915.0	3647.4	3512.0	3227.5	2646.0	1849.3	1233.7
-27.5°	4505.8	4400.2	4279.3	4010.2	3636.6	3306.9	3103.9	2803.8	2080.2	1468.8	1155.4
-30°	4196.6	4151.6	4008.0	3760.5	3418.6	3109.6	2781.1	2211.3	1639.0	1179.6	1094.4
-32.5°	4037.7	3916.5	3739.7	3460.1	3177.0	2895.9	2317.8	1696.8	1244.2	1119.7	1050.2
-35°	3818.2	3611.5	3357.5	3154.2	2964.3	2410.9	1819.1	1325.6	1126.0	1068.0	1011.9
-37.5°	3544.5	3243.8	3053.7	2836.1	2372.8	1857.6	1372.8	1159.1	1083.3	1030.4	952.8
-40°	3317.4	3024.9	2592.0	2201.5	1767.7	1328.2	1190.6	1119.8	1058.8	977.8	881.0
-42.5°	2775.9	2344.7	1952.5	1562.2	1258.1	1205.9	1149.7	1091.6	1012.5	907.0	805.1
-45°	1932.0	1594.8	1294.8	1249.1	1201.5	1159.5	1116.8	1031.9	931.7	830.6	727.5
-47.5°	1312.7	1274.5	1233.0	1195.7	1159.8	1112.5	1031.7	940.9	846.8	751.4	660.6
-50°	1257.6	1233.6	1201.3	1153.3	1086.9	1015.1	934.9	848.5	764.0	681.4	594.9
-52.5°	1250.2	1192.7	1130.3	1062.6	990.4	917.4	839.6	767.1	691.8	611.9	531.1
-55°	1161.9	1099.4	1033.1	963.4	892.0	826.6	759.6	689.7	616.8	540.9	472.7
-57.5°	1054.2	993.9	932.9	869.4	803.5	738.0	672.0	605.4	542.6	478.4	416.1
-60°	956.0	895.8	836.9	773.6	705.9	640.9	585.3	528.8	471.5	418.9	366.1
-62.5°	852.1	798.7	735.1	670.0	609.8	555.7	504.0	454.0	408.1	361.6	300.1
-65°	707.4	653.9	601.9	552.1	505.0	461.1	417.7	369.8	320.2	272.6	220.4
-67.5°	540.1	499.1	460.7	422.4	380.5	338.6	295.6	254.1	218.6	184.6	145.0
-70°	361.2	327.1	293.6	261.7	234.5	209.1	182.2	154.3	125.9	106.0	87.6
-72.5°	202.1	181.4	161.5	142.5	122.2	109.2	98.3	86.4	73.2	58.7	48.2
-75°	100.5	91.4	82.6	75.1	67.2	58.7	53.8	50.0	46.4	43.0	39.7
-77.5°	55.8	52.3	49.2	47.4	45.5	43.3	40.8	38.4	36.4	34.4	32.3
-80°	41.2	39.0	36.8	35.6	34.3	33.1	31.8	30.2	28.6	27.1	25.9
-82.5°	29.6	28.1	26.8	26.3	25.7	25.2	24.6	23.7	22.9	22.2	21.5
-85°	22.2	21.1	20.0	19.7	19.4	19.0	18.5	18.2	17.8	17.5	17.1
-87.5°	17.8	17.2	16.4	15.9	15.4	14.9	14.5	14.4	14.3	14.1	13.9
-90°	2.1	2.1	2.1	2.6	3.2	3.7	4.2	4.7	5.2	5.7	6.2





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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	12.0	11.5	10.9	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
87.5°	6.2	6.2	6.2	6.2	6.5	6.7	6.9	7.1	7.3	7.6	7.9
85°	6.2	6.2	6.2	6.2	6.7	7.3	7.7	8.0	7.9	8.0	8.1
82.5°	6.2	6.2	6.2	6.2	6.8	7.3	7.8	8.3	8.3	8.3	8.3
80°	6.2	6.2	6.2	6.3	6.8	7.3	7.9	8.3	8.3	8.3	8.3
77.5°	7.0	6.6	6.3	6.3	6.9	7.4	7.9	8.3	8.3	8.3	8.3
75°	8.3	7.9	7.5	7.2	7.2	7.4	7.9	8.3	8.3	8.3	8.3
72.5°	8.3	8.3	8.3	8.3	7.9	7.9	8.1	8.3	8.3	8.3	8.3
70°	11.0	8.8	8.3	8.3	8.3	8.3	8.2	8.4	8.3	8.3	8.3
67.5°	15.7	12.4	10.0	8.5	8.3	8.3	8.3	8.6	8.6	8.3	8.3
65°	27.7	18.7	12.3	10.2	8.8	8.3	8.3	8.7	9.0	8.8	8.3
62.5°	35.7	27.0	18.6	12.8	9.7	8.6	8.3	8.8	9.3	9.2	8.7
60°	39.5	31.1	24.5	18.2	12.2	8.8	8.5	8.9	9.4	9.8	9.2
57.5°	36.5	33.3	28.5	22.7	16.5	10.7	8.6	9.0	9.5	10.0	9.8
55°	31.4	29.1	30.4	26.3	20.2	14.0	9.7	9.2	9.6	10.1	10.3
52.5°	26.2	26.8	29.0	28.5	23.4	17.2	12.4	9.3	9.7	10.2	10.4
50°	21.8	25.5	28.4	29.1	26.2	20.2	14.7	10.9	9.9	10.3	10.4
47.5°	20.9	25.4	28.0	30.1	28.2	22.9	17.0	12.5	10.0	10.4	10.4
45°	24.8	26.7	28.8	30.3	30.0	24.6	19.2	13.6	10.9	10.5	10.4
42.5°	30.7	31.3	31.7	31.0	30.5	25.7	21.1	15.3	11.7	10.6	10.5
40°	42.1	37.8	36.2	36.1	32.0	26.4	21.9	16.8	12.2	11.0	10.6
37.5°	55.3	48.2	43.1	45.8	36.7	29.0	22.2	18.2	13.5	11.9	10.9
35°	78.8	61.8	58.2	59.6	49.0	32.6	22.2	18.9	15.6	12.8	11.1
32.5°	107.1	90.7	86.7	76.2	64.8	37.3	24.4	20.7	17.9	13.8	11.4
30°	158.3	144.6	124.9	95.3	83.0	51.9	29.6	22.8	20.2	15.0	11.8
27.5°	236.5	206.9	173.0	129.3	101.2	69.7	36.1	25.3	22.5	16.4	12.7
25°	319.1	278.5	232.7	173.5	121.0	93.7	42.4	28.2	24.7	18.3	13.6
22.5°	411.1	352.1	297.8	223.2	152.6	121.2	55.2	33.5	26.9	20.3	14.6
20°	504.1	425.9	370.0	278.8	195.8	147.7	76.1	38.6	29.3	22.1	15.5
17.5°	609.9	518.5	455.2	344.6	243.1	176.7	98.5	43.4	31.8	24.0	16.4
15°	821.5	632.6	545.2	416.7	288.6	207.6	121.9	47.9	34.4	25.8	17.3
12.5°	1078.1	745.3	639.6	493.0	332.0	239.6	145.7	52.0	37.0	27.6	18.1
10°	1360.6	855.9	736.5	571.6	373.1	272.1	169.1	58.4	41.0	29.4	18.8
7.5°	1655.9	963.7	833.8	649.9	416.4	315.8	216.0	70.2	45.4	31.1	19.4
5°	1925.0	1063.1	931.4	743.2	483.1	369.6	267.3	82.4	49.8	32.6	20.0
2.5°	2062.7	1149.4	1024.7	832.7	547.5	420.9	317.2	94.4	54.1	34.1	20.4
0°	2163.2	1230.2	1111.7	914.3	608.9	469.6	363.6	106.0	58.2	35.3	20.8
-2.5°	2130.1	1250.8	1135.8	953.0	673.6	519.2	402.3	136.9	76.0	45.7	25.6
-5°	2064.7	1267.7	1155.3	985.0	733.3	565.6	434.5	166.0	93.0	55.7	30.3
-7.5°	2035.9	1276.2	1167.2	1010.0	787.1	608.3	459.8	192.6	108.9	64.9	34.5
-10°	1972.4	1278.1	1169.4	1009.0	791.0	625.3	473.6	216.1	123.3	73.1	38.3
-12.5°	1850.0	1277.3	1170.0	998.6	780.7	618.2	455.2	230.0	135.7	80.0	41.5
-15°	1663.0	1274.3	1170.2	978.1	764.0	607.5	434.7	238.3	145.4	86.3	44.0
-17.5°	1397.2	1269.2	1170.7	947.0	740.4	593.3	413.3	243.9	153.4	92.1	46.8
-20°	1294.6	1235.2	1164.4	904.8	709.9	575.3	391.9	246.7	159.5	96.4	49.5



REPORT NUMBER: P701608 (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°
-22.5°	1233.1	1176.6	1074.2	864.4	678.8	553.7	371.6	246.6	163.7	99.0	50.9
-25°	1164.1	1115.5	979.9	802.7	651.8	521.9	360.5	243.5	165.7	99.9	50.8
-27.5°	1094.8	1042.3	892.7	741.3	615.6	494.2	354.8	244.6	165.9	99.0	49.2
-30°	1025.2	948.4	820.5	685.2	577.5	458.8	345.6	243.3	164.4	97.0	46.0
-32.5°	974.7	866.6	753.3	641.1	536.1	422.0	324.7	239.1	160.3	93.3	44.3
-35°	913.1	800.7	690.1	595.3	493.0	390.9	300.4	232.1	153.7	87.2	42.7
-37.5°	848.4	739.3	639.1	547.9	449.1	358.0	280.2	214.3	144.5	78.7	40.0
-40°	779.5	679.1	588.7	499.4	409.4	323.3	258.3	194.6	132.8	67.8	36.4
-42.5°	708.6	621.0	535.9	450.4	369.8	297.3	234.9	173.1	114.5	60.1	31.9
-45°	642.2	560.8	481.6	405.8	330.4	270.0	209.2	150.1	94.7	53.8	28.4
-47.5°	573.9	501.0	430.4	360.6	298.9	240.6	181.6	127.0	74.1	46.1	27.2
-50°	509.4	444.6	382.1	322.6	266.4	208.0	152.9	102.8	63.2	36.6	25.7
-52.5°	456.0	393.8	338.8	286.1	229.3	173.3	125.3	79.0	51.3	31.9	24.0
-55°	406.0	347.5	298.4	244.1	189.3	141.2	96.8	64.3	38.6	29.3	22.2
-57.5°	359.9	304.2	250.2	197.6	150.8	108.7	74.7	48.7	33.3	26.6	21.0
-60°	310.4	249.4	196.7	153.1	112.7	80.4	55.7	36.4	30.1	24.1	19.7
-62.5°	242.4	190.1	146.8	108.9	80.9	58.0	38.6	32.7	26.8	22.4	18.2
-65°	175.1	133.5	97.5	76.5	55.6	39.8	34.4	29.0	24.6	20.7	16.9
-67.5°	108.1	86.9	67.0	48.2	40.0	34.9	30.1	26.3	22.6	18.9	15.9
-70°	69.1	51.7	43.6	38.9	34.3	30.1	27.3	24.1	20.6	17.8	14.9
-72.5°	44.4	40.5	36.4	32.5	29.9	27.3	24.7	21.9	19.2	16.6	13.9
-75°	36.3	33.6	31.3	29.2	26.8	24.4	22.3	20.4	17.9	15.3	13.2
-77.5°	30.3	28.6	27.2	25.6	23.4	21.6	20.2	18.8	16.5	14.4	12.5
-80°	24.9	23.8	22.5	21.0	19.7	18.7	18.0	17.2	15.2	13.5	11.8
-82.5°	20.4	19.3	18.3	17.5	17.1	16.6	16.1	15.5	13.9	12.5	11.3
-85°	16.5	16.0	15.5	15.1	14.8	14.5	14.2	13.8	12.7	11.8	11.0
-87.5°	13.7	13.4	13.1	12.8	12.6	12.4	12.3	12.1	11.6	11.1	10.7
-90°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.7	7.3	7.8



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	10.4	9.9	9.4	8.8	8.3	8.3	8.3
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
85°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
82.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
80°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
75°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
72.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
70°	8.3	8.3	8.3	8.3	8.3	8.3	8.3
67.5°	8.4	8.3	8.3	8.3	8.3	8.3	8.3
65°	8.4	8.4	8.3	8.3	8.3	8.3	8.3
62.5°	8.6	8.5	8.3	8.3	8.3	8.3	8.3
60°	8.7	8.7	8.3	8.3	8.3	8.3	8.3
57.5°	9.1	8.9	8.5	8.3	8.3	8.3	8.3
55°	9.5	9.1	8.7	8.3	8.4	8.3	8.3
52.5°	9.9	9.4	8.9	8.3	8.4	8.3	8.3
50°	10.2	9.6	9.2	8.3	8.4	8.3	8.3
47.5°	10.4	9.8	9.4	8.3	8.5	8.3	8.3
45°	10.4	10.0	9.7	8.5	8.6	8.3	8.3
42.5°	10.4	10.2	9.9	8.7	8.6	8.3	8.3
40°	10.4	10.3	10.1	9.0	8.7	8.3	8.3
37.5°	10.4	10.4	10.2	9.2	8.8	8.3	8.3
35°	10.4	10.4	10.3	9.4	8.9	8.3	8.3
32.5°	10.5	10.4	10.3	9.6	9.0	8.3	8.3
30°	10.7	10.4	10.4	9.8	9.1	8.3	8.3
27.5°	10.9	10.4	10.4	9.9	9.2	8.3	8.3
25°	11.2	10.4	10.4	10.0	9.3	8.3	8.3
22.5°	11.4	10.4	10.4	10.1	9.4	8.3	8.3
20°	11.7	10.6	10.4	10.2	9.5	8.3	8.3
17.5°	12.1	10.8	10.4	10.3	9.6	8.3	8.3
15°	12.5	11.0	10.4	10.3	9.7	8.3	8.3
12.5°	12.9	11.2	10.4	10.4	9.9	8.3	8.3
10°	13.2	11.5	10.4	10.4	10.0	8.3	8.3
7.5°	13.6	11.7	10.4	10.4	10.1	8.3	8.3
5°	13.9	12.0	10.4	10.4	10.2	8.3	8.3
2.5°	14.2	12.3	10.4	10.4	10.3	8.3	8.3
0°	14.5	12.5	10.4	10.4	10.4	8.3	8.3
-2.5°	16.2	12.9	10.6	10.5	10.4	8.3	8.3
-5°	17.7	13.4	10.8	10.7	10.4	8.4	8.3
-7.5°	19.2	13.7	11.0	10.8	10.4	8.4	8.3
-10°	20.6	14.1	11.1	10.9	10.3	8.5	8.3
-12.5°	21.7	14.4	11.3	11.0	10.3	8.5	8.3
-15°	22.6	14.6	11.5	11.1	10.3	8.6	8.3
-17.5°	23.3	14.8	11.7	11.2	10.3	8.6	8.3
-20°	24.0	14.9	11.8	11.3	10.2	8.6	8.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	24.8	14.9	12.0	11.3	10.2	8.7	8.3
-25°	25.1	15.1	12.2	11.4	10.2	8.7	8.3
-27.5°	24.9	15.4	12.4	11.4	10.1	8.7	8.3
-30°	24.1	15.5	12.5	11.3	10.1	8.8	8.3
-32.5°	22.7	15.4	12.8	11.3	10.1	8.8	8.3
-35°	22.1	15.3	13.0	11.2	10.1	8.8	8.3
-37.5°	21.9	15.2	13.1	11.1	10.1	8.8	8.3
-40°	21.5	15.4	13.2	11.0	10.0	8.8	8.3
-42.5°	20.9	15.4	13.1	10.9	10.0	8.8	8.3
-45°	20.1	15.4	12.9	10.7	10.0	8.8	8.3
-47.5°	19.1	15.2	12.7	10.6	10.0	8.8	8.3
-50°	18.7	15.0	12.5	10.5	10.0	8.8	8.3
-52.5°	18.1	14.6	12.2	10.6	10.1	8.8	8.3
-55°	17.5	14.2	11.9	10.6	10.1	8.8	8.3
-57.5°	16.6	13.7	11.5	10.6	10.1	8.8	8.3
-60°	15.7	13.2	11.2	10.6	10.1	8.8	8.3
-62.5°	15.0	12.7	11.1	10.5	10.0	8.7	8.3
-65°	14.2	12.1	11.0	10.5	9.9	8.7	8.3
-67.5°	13.3	11.6	10.9	10.5	9.8	8.7	8.3
-70°	12.4	11.4	10.7	10.4	9.6	8.6	8.3
-72.5°	11.9	11.1	10.6	10.2	9.5	8.6	8.3
-75°	11.5	10.8	10.4	10.0	9.3	8.6	8.3
-77.5°	11.0	10.5	10.2	9.8	9.2	8.5	8.3
-80°	10.5	10.3	10.1	9.6	9.0	8.5	8.3
-82.5°	10.4	10.2	9.9	9.4	8.8	8.4	8.3
-85°	10.4	10.1	9.7	9.2	8.7	8.4	8.3
-87.5°	10.4	10.0	9.5	9.0	8.5	8.3	8.3
-90°	8.3	8.3	8.3	8.3	8.3	8.3	8.3

(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

