

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: P701332 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-70-5S-CV2-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701332 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-32)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320L-40-70-5S-CV2-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE WITH 2 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

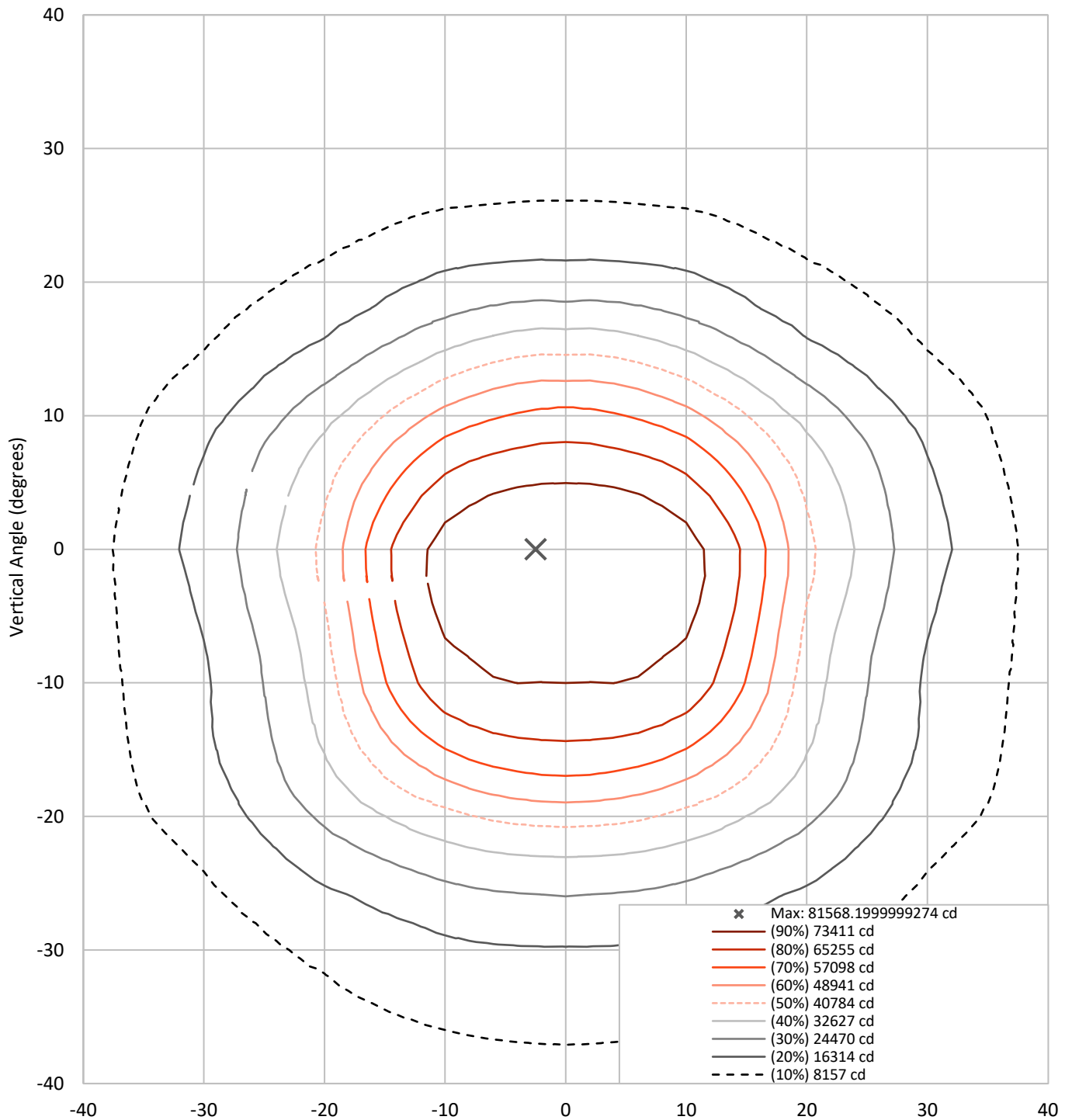
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 4V
Luminaire Lumens:	40256.2 lumens	Max Intensity:	81568.2 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	117.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	41.5°H x 35.3°V	Field Angle (10%):	75°H x 63°V
Beam Lumens:	22141.7 lumens	Field Lumens:	36879.3 lumens
Beam Efficiency:	55.0%	Field Efficiency:	91.6%

Input Watts (W): 344.2  
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

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### Iso-Candela Plot





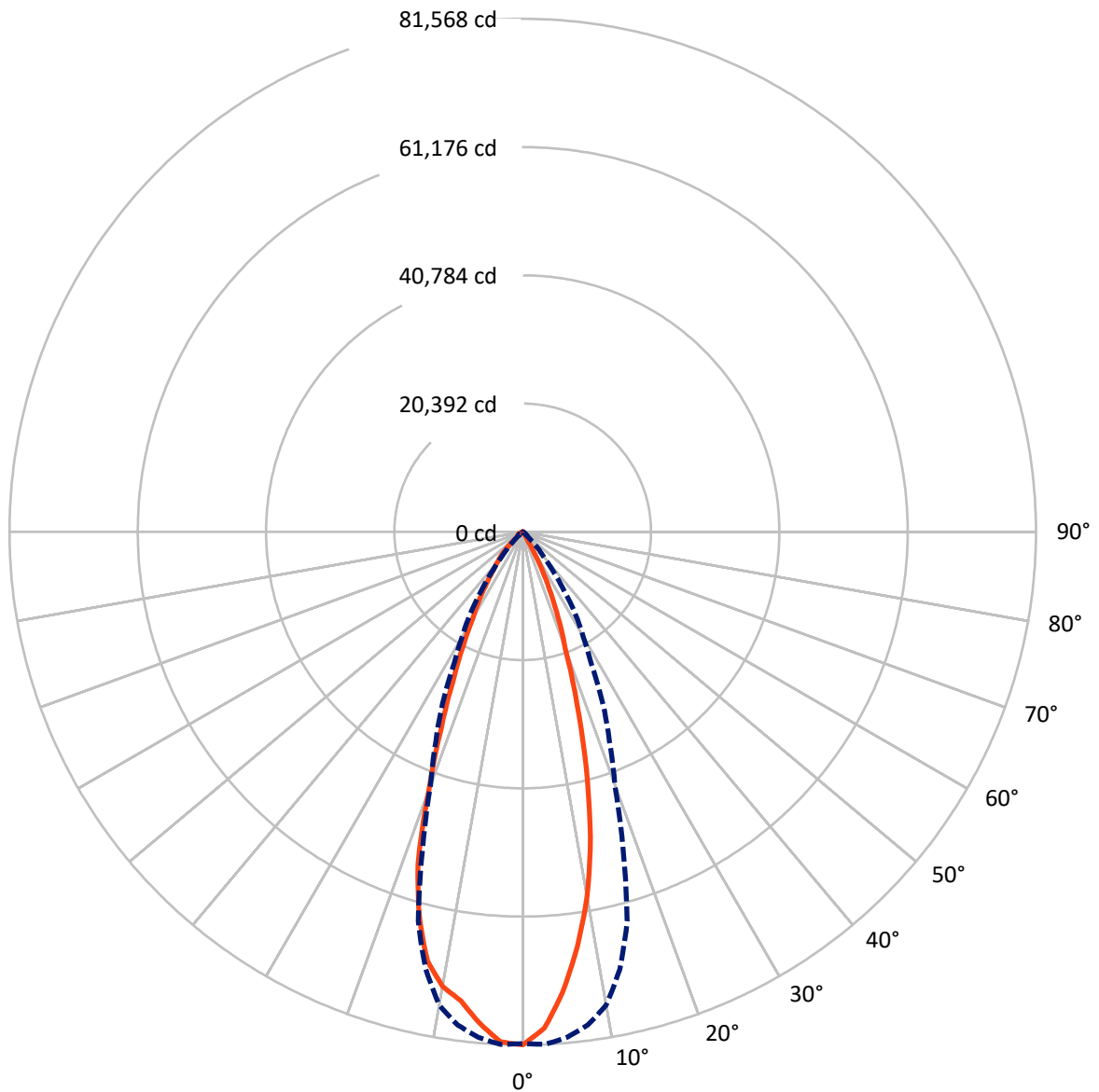
REPORT NUMBER: P701332 (CONVERTED FROM TYPE C PHOTOMETRY)  
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### Lumen Table

90																			
80	0.1	0.3		0.4		0.4		0.3		0.4		0.4		0.3		0.1			
70																			
60	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.1	0.1	0.1			
50		0.1	0.1	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.4	0.1	0.1				
40	0.1	0.1	0.2	0.4	0.5	0.7	1.0	1.2	1.2	1.0	0.7	0.5	0.4	0.2	0.1	0.1			
30		0.1	0.5	1.2	3.3	9.0	15.7	20.0	20.0	15.7	9.0	3.3	1.2	0.5	0.1				
20	0.1	0.2	1.8	6.1	35.7	102.8	208.9	301.6	301.6	208.9	102.8	35.7	6.1	1.8	0.2	0.1			
10		0.5	3.8	20.0	127.1	372.6	763.7	1128.2	1128.2	763.7	372.6	127.1	20.0	3.8	0.5				
0	0.2	0.9	6.5	43.6	261.5	747.1	1564.2	2134.8	2134.8	1564.2	747.1	261.5	43.6	6.5	0.9	0.2			
-10		1.5	8.8	52.7	273.9	765.0	1755.4	2339.7	2339.7	1755.4	765.0	273.9	52.7	8.8	1.5				
-20	0.2	1.7	9.1	42.4	232.5	629.8	1326.4	1826.5	1826.5	1326.4	629.8	232.5	42.4	9.1	1.7	0.2			
-30		1.5	7.4	19.9	116.6	337.0	619.8	813.8	813.8	619.8	337.0	116.6	19.9	7.4	1.5				
-40	0.2	1.2	5.1	11.6	34.1	127.0	233.6	304.8	304.8	233.6	127.0	34.1	11.6	5.1	1.2	0.2			
-50		0.7	3.1	8.2	15.0	28.2	63.5	95.8	95.8	63.5	28.2	15.0	8.2	3.1	0.7				
-60	0.1	0.3	1.5	4.6	9.6	15.8	21.7	25.1	25.1	21.7	15.8	9.6	4.6	1.5	0.3	0.1			
-70		0.1	0.6	1.8	4.0	7.0	10.5	12.6	12.6	10.5	7.0	4.0	1.8	0.6	0.1				
-80	0.1	0.4		1.4		3.8		5.3		3.8		1.4		0.4		0.1			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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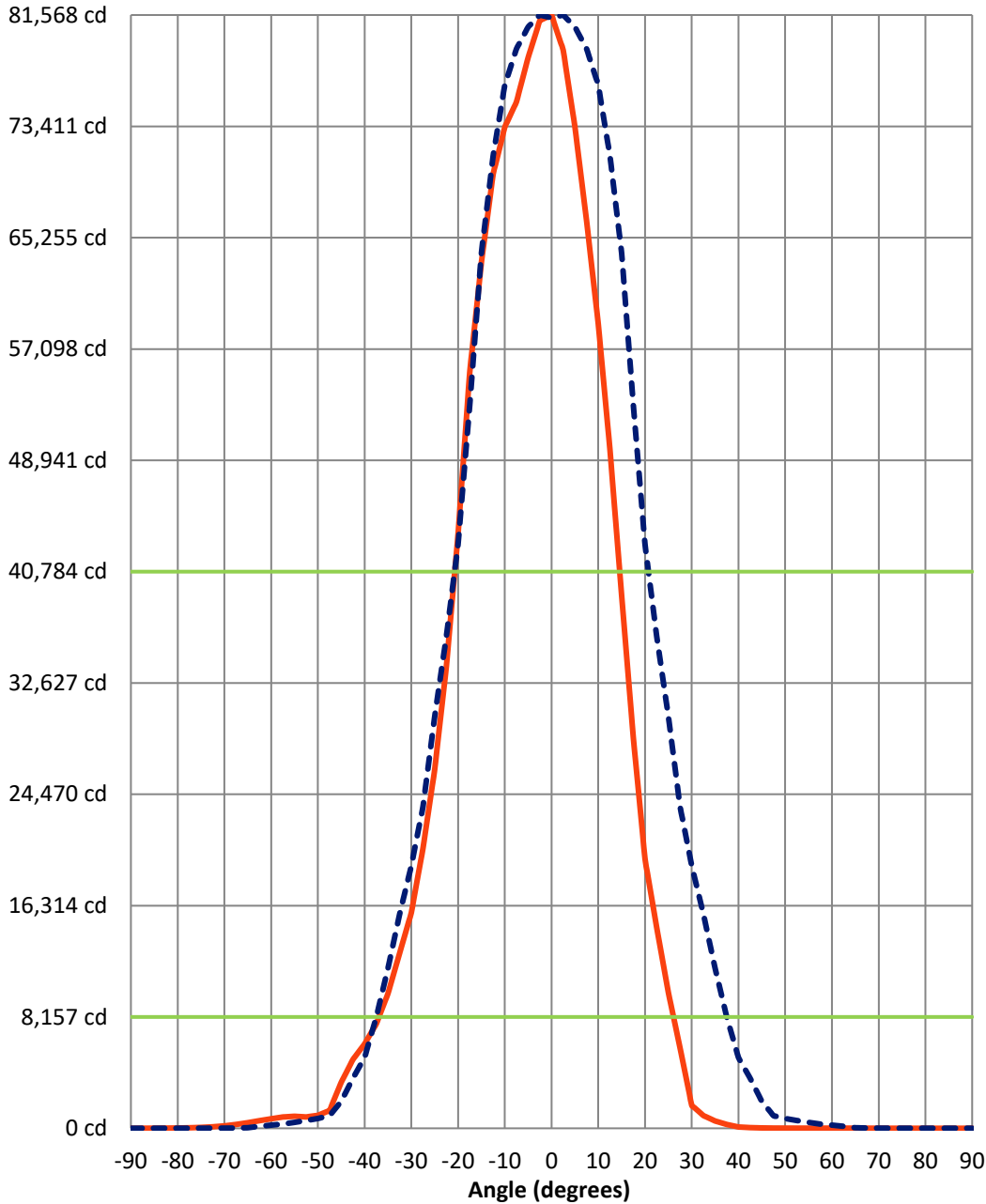
### Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 41.5°  
 V Angle: 35.3°  
 Lumens: 22141.7  
 Efficiency: 55.0%

**Field:**  
 H Angle: 75°  
 V Angle: 63°  
 Lumens: 36879.3  
 Efficiency: 91.6%

**Spill:**  
 Lumens: 3376.9  
 Efficiency: 8.4%

— Vertical Distribution through -2.5-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°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9	4.8
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.9	5.0	5.0	4.9
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.1	5.3	5.2	5.3
67.5°	4.8	4.8	4.8	4.8	4.8	4.8	5.1	5.4	5.5	5.5	5.6
65°	4.8	4.8	4.8	4.8	4.8	4.9	5.4	5.7	5.7	5.7	5.9
62.5°	4.8	4.8	4.8	4.8	4.8	5.1	5.6	5.8	5.8	5.9	5.9
60°	4.8	4.8	4.8	4.8	4.8	5.3	5.9	5.9	5.9	5.9	5.9
57.5°	4.8	4.8	4.8	4.8	5.0	5.5	5.9	5.9	5.9	5.9	5.9
55°	4.8	4.8	4.8	4.8	5.1	5.7	5.9	5.9	5.9	5.9	5.9
52.5°	4.8	4.8	4.8	4.8	5.3	5.9	5.9	5.9	5.9	5.9	5.9
50°	4.8	4.8	4.8	4.8	5.4	5.9	5.9	5.9	5.9	5.9	6.3
47.5°	4.8	4.8	4.8	4.8	5.6	5.9	5.9	5.9	5.9	5.9	6.7
45°	4.8	4.8	4.8	4.9	5.7	5.9	5.9	5.9	5.9	6.2	7.0
42.5°	4.8	4.8	4.8	5.0	5.8	5.9	5.9	5.9	6.0	6.6	7.4
40°	4.8	4.8	4.8	5.1	5.9	5.9	5.9	6.0	6.2	6.9	7.8
37.5°	4.8	4.8	4.8	5.2	5.9	5.9	5.9	6.2	6.6	7.3	8.1
35°	4.8	4.8	4.8	5.2	5.9	5.9	5.9	6.3	6.9	7.7	8.4
32.5°	4.8	4.8	4.8	5.3	5.9	5.9	5.9	6.5	7.2	8.2	9.0
30°	4.8	4.8	4.8	5.3	5.9	5.9	6.1	6.7	7.5	8.7	9.7
27.5°	4.8	4.8	4.8	5.3	5.9	5.9	6.2	6.9	7.9	9.2	10.5
25°	4.8	4.8	4.8	5.3	5.8	5.9	6.3	7.2	8.3	9.8	11.4
22.5°	4.8	4.8	4.8	5.3	5.8	5.9	6.5	7.4	8.7	10.5	13.4
20°	4.8	4.8	4.8	5.3	5.8	5.9	6.6	7.6	9.1	11.2	15.5
17.5°	4.8	4.8	4.8	5.2	5.8	5.9	6.8	7.8	9.5	11.9	17.6
15°	4.8	4.8	4.8	5.2	5.8	5.9	6.8	8.0	9.9	12.7	19.7
12.5°	4.8	4.8	4.8	5.1	5.8	5.9	6.9	8.1	10.3	13.4	21.7
10°	4.8	4.8	4.8	5.1	5.9	5.9	7.0	8.2	10.7	14.5	24.4
7.5°	4.8	4.8	4.8	5.0	5.9	5.9	7.0	8.2	11.0	15.7	28.7
5°	4.8	4.8	4.8	4.9	5.9	5.9	7.1	8.3	11.4	16.9	33.2
2.5°	4.8	4.8	4.8	4.9	5.9	5.9	7.1	8.3	11.7	18.0	37.5
0°	4.8	4.8	4.8	4.8	5.9	5.9	7.1	8.3	11.9	19.0	41.6
-2.5°	4.8	4.8	4.8	4.9	5.9	6.2	7.6	9.4	15.1	26.0	53.8
-5°	4.8	4.8	4.8	4.9	5.9	6.4	8.0	10.5	18.1	32.8	65.2
-7.5°	4.8	4.8	4.8	5.0	5.9	6.7	8.5	11.5	20.9	38.9	75.6
-10°	4.8	4.8	4.8	5.1	5.9	6.9	8.8	12.4	23.3	44.4	84.6
-12.5°	4.8	4.8	4.8	5.1	5.8	7.1	9.2	13.2	25.3	49.0	90.9
-15°	4.8	4.8	4.8	5.2	5.8	7.2	9.5	13.9	27.3	52.9	95.2
-17.5°	4.8	4.8	4.8	5.2	5.8	7.3	9.8	14.9	29.2	55.7	98.1
-20°	4.8	4.8	4.8	5.3	5.8	7.3	10.1	15.9	30.4	57.5	99.4



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 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-CV2-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.8	4.8	4.8	5.3	5.8	7.3	10.4	16.7	30.9	58.0	99.1
-25°	4.8	4.8	4.8	5.3	5.8	7.3	10.6	17.1	30.6	57.3	97.0
-27.5°	4.8	4.8	4.8	5.3	5.9	7.2	10.6	17.1	29.4	55.8	95.9
-30°	4.8	4.8	4.8	5.3	5.9	7.1	10.4	16.7	28.7	54.4	93.1
-32.5°	4.8	4.8	4.8	5.3	6.0	6.9	10.1	16.5	28.3	51.8	88.4
-35°	4.8	4.8	4.8	5.2	6.0	6.7	9.8	16.0	27.3	47.9	81.9
-37.5°	4.8	4.8	4.8	5.2	6.1	6.5	9.5	15.3	25.7	42.8	72.3
-40°	4.8	4.8	4.8	5.1	6.1	6.6	9.1	14.2	23.5	39.3	63.3
-42.5°	4.8	4.8	4.8	5.0	6.1	6.6	8.6	12.8	21.6	35.3	53.8
-45°	4.8	4.8	4.8	5.0	6.0	6.6	8.1	11.6	19.6	30.9	44.7
-47.5°	4.8	4.8	4.8	4.9	5.8	6.6	7.5	10.8	17.2	26.1	39.3
-50°	4.8	4.8	4.8	4.9	5.7	6.6	7.3	10.0	14.2	22.6	33.5
-52.5°	4.8	4.8	4.8	4.9	5.6	6.5	7.3	9.1	12.4	18.9	27.6
-55°	4.8	4.8	4.8	4.9	5.5	6.4	7.2	8.1	11.1	14.9	23.1
-57.5°	4.8	4.8	4.8	4.9	5.3	6.2	7.0	7.9	9.7	12.8	18.2
-60°	4.8	4.8	4.8	5.0	5.2	6.0	6.8	7.7	8.5	11.1	14.1
-62.5°	4.8	4.8	4.8	5.0	5.2	5.8	6.6	7.4	8.2	9.3	12.1
-65°	4.8	4.8	4.8	5.0	5.2	5.6	6.4	7.1	7.9	8.6	9.9
-67.5°	4.8	4.8	4.8	5.0	5.3	5.5	6.1	6.8	7.5	8.3	9.0
-70°	4.8	4.8	4.8	5.0	5.3	5.5	5.8	6.5	7.2	7.9	8.5
-72.5°	4.8	4.8	4.8	5.0	5.3	5.6	5.8	6.2	6.8	7.5	8.1
-75°	4.8	4.8	4.8	5.0	5.3	5.6	5.8	6.1	6.5	7.0	7.6
-77.5°	4.8	4.8	4.8	5.0	5.3	5.6	5.9	6.0	6.3	6.7	7.2
-80°	4.8	4.8	4.8	4.9	5.2	5.5	5.9	6.0	6.1	6.4	6.7
-82.5°	4.8	4.8	4.8	4.9	5.1	5.3	5.6	5.8	5.9	6.0	6.2
-85°	4.8	4.8	4.8	4.9	5.0	5.2	5.4	5.5	5.6	5.6	5.7
-87.5°	4.8	4.8	4.8	4.8	4.9	5.0	5.1	5.1	5.2	5.2	5.3
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8





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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°	4.8	4.8	4.8	4.8	4.5	4.2	3.9	3.6	3.6	3.6	3.6
87.5°	4.6	4.5	4.4	4.3	4.1	4.0	3.8	3.6	3.3	3.0	2.7
85°	4.8	4.8	4.8	4.8	4.5	4.2	3.9	3.6	3.4	3.3	3.2
82.5°	4.8	4.8	4.8	4.8	4.5	4.2	3.9	3.6	3.6	3.6	3.6
80°	4.8	4.8	4.8	4.8	4.6	4.3	4.0	3.7	3.6	3.6	3.7
77.5°	4.8	4.8	4.8	4.8	4.6	4.4	4.3	4.3	4.3	4.2	4.0
75°	4.8	4.8	4.9	4.8	4.7	4.7	4.8	4.8	4.6	4.3	4.0
72.5°	5.0	5.1	5.1	4.9	4.8	4.8	4.8	4.8	4.9	5.0	4.9
70°	5.4	5.5	5.3	5.0	4.8	4.9	5.4	6.0	6.6	6.5	6.5
67.5°	5.8	5.6	5.3	5.1	5.2	5.8	6.5	7.5	8.4	8.4	8.7
65°	5.9	5.6	5.5	5.6	5.9	6.9	8.0	9.1	11.6	13.2	13.9
62.5°	5.9	5.7	5.8	6.2	7.1	8.3	9.9	12.7	16.7	18.9	18.3
60°	5.9	5.9	6.3	7.2	8.2	9.4	12.0	15.9	21.2	25.0	22.7
57.5°	5.9	6.2	7.0	8.0	8.8	9.9	13.4	18.3	24.4	31.0	26.9
55°	6.1	6.7	7.6	8.5	9.4	10.2	13.9	19.5	26.4	30.4	26.5
52.5°	6.5	7.2	8.1	9.0	9.9	10.8	13.6	19.0	23.1	26.2	24.2
50°	7.0	7.7	8.5	9.5	10.5	11.5	12.0	16.4	19.7	21.1	21.0
47.5°	7.4	8.2	8.9	10.0	11.4	12.2	12.2	14.4	16.8	18.3	17.0
45°	7.8	8.6	9.4	10.9	12.4	13.2	13.8	13.4	17.2	18.2	17.5
42.5°	8.3	9.1	10.5	11.9	13.7	15.7	16.8	18.1	20.0	21.8	21.4
40°	8.6	9.5	11.9	14.8	16.1	19.7	23.2	25.3	26.1	27.8	27.8
37.5°	9.0	11.0	14.7	20.6	20.7	26.1	31.1	36.1	37.6	34.9	39.5
35°	9.4	12.7	22.3	29.4	30.5	34.6	42.9	50.6	55.2	52.6	56.9
32.5°	10.5	14.6	32.1	39.5	46.9	50.6	56.6	73.2	89.1	94.0	85.5
30°	12.4	23.6	43.3	50.7	68.1	79.5	83.1	105.4	138.8	168.0	225.6
27.5°	14.7	34.5	53.7	69.5	94.5	115.1	124.2	160.7	217.7	294.7	460.4
25°	17.2	46.1	64.8	93.4	129.2	153.1	167.9	219.4	315.1	561.0	870.5
22.5°	23.3	57.9	78.9	120.0	168.3	189.1	220.2	290.4	451.1	859.7	1373.2
20°	32.7	69.1	98.9	146.3	210.2	223.4	268.4	358.5	637.2	1256.1	1873.0
17.5°	42.0	81.6	120.8	177.4	242.4	269.0	315.2	420.5	793.4	1752.9	2521.9
15°	50.9	95.3	141.4	208.9	280.1	332.6	403.3	560.2	1091.8	2341.1	3381.0
12.5°	59.5	109.6	160.8	240.3	323.7	400.1	504.4	787.9	1624.0	3028.2	4580.4
10°	67.5	124.2	178.7	270.9	371.5	469.9	609.0	1037.0	2161.9	3626.3	5530.1
7.5°	85.9	146.5	198.8	300.2	421.5	540.6	714.6	1296.2	2647.4	4132.3	6323.6
5°	106.3	176.5	237.1	346.1	474.1	607.1	811.5	1552.9	3073.1	4549.2	7038.4
2.5°	126.4	205.6	274.4	391.7	524.6	665.0	871.4	1776.7	3407.1	4901.9	7655.3
0°	145.0	233.0	310.2	433.9	570.6	718.0	922.4	1972.0	3661.2	5187.5	8141.4
-2.5°	167.8	262.4	349.9	474.0	586.1	719.6	923.2	1899.9	3716.4	5457.3	7959.0
-5°	187.5	289.1	386.7	510.5	599.8	717.4	915.8	1789.7	3685.9	5601.8	7812.0
-7.5°	203.4	313.0	420.0	539.6	612.5	724.7	933.6	1814.0	3635.1	5601.7	7719.8
-10°	212.6	319.8	420.2	538.0	620.8	734.1	945.8	1771.1	3480.2	5485.7	7532.4
-12.5°	204.4	311.3	411.5	531.0	625.9	736.0	941.9	1649.9	3219.1	5249.2	7298.4
-15°	194.7	301.2	399.2	518.0	627.8	729.6	919.9	1442.0	2791.1	4739.9	7016.2
-17.5°	183.9	289.7	383.1	498.7	626.3	714.2	866.4	1113.3	2237.1	4028.4	6368.8
-20°	172.3	276.8	363.1	472.6	617.7	678.8	785.1	987.6	1765.0	3230.7	5350.7



REPORT NUMBER: P701332 (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°	160.5	263.0	342.3	446.9	567.7	636.1	709.1	855.0	1247.9	2334.0	4034.5
-25°	153.8	245.4	324.1	413.0	516.6	596.2	632.7	724.6	921.3	1713.4	2945.5
-27.5°	150.7	228.8	301.7	378.1	469.8	554.5	581.2	640.7	787.7	1105.3	1989.8
-30°	145.4	206.2	277.0	344.7	428.9	504.4	543.6	581.2	675.1	846.8	1336.7
-32.5°	133.9	183.2	250.5	315.9	388.6	461.8	520.7	556.8	615.9	705.6	868.1
-35°	119.7	166.2	223.6	284.8	348.9	422.3	488.7	541.6	570.2	632.0	740.8
-37.5°	106.7	147.8	196.5	253.3	313.0	381.1	454.1	511.8	553.8	583.4	661.4
-40°	93.0	128.0	173.4	223.8	277.6	339.8	407.1	474.0	527.2	571.5	606.1
-42.5°	79.1	112.0	150.4	194.9	245.8	300.2	358.0	423.7	489.7	547.3	591.0
-45°	68.2	95.5	127.1	169.7	214.5	262.1	314.4	368.8	439.7	504.9	559.3
-47.5°	56.9	79.6	108.6	143.9	185.1	227.4	271.5	326.0	384.9	449.2	511.3
-50°	46.6	66.8	90.1	121.9	157.2	194.6	233.8	283.6	337.9	392.8	449.6
-52.5°	39.8	53.7	75.2	100.2	131.3	164.7	201.0	243.4	291.5	341.7	392.1
-55°	32.6	44.7	60.7	81.7	106.1	136.1	170.1	207.0	244.8	290.5	335.7
-57.5°	26.3	36.6	49.2	64.8	85.0	107.4	139.0	171.9	206.5	241.9	279.5
-60°	20.5	29.0	39.6	51.8	65.7	85.5	108.0	136.4	167.2	198.3	230.0
-62.5°	15.0	21.9	30.6	40.6	52.2	64.6	82.8	104.1	127.2	153.1	179.7
-65°	12.6	15.6	21.8	30.2	39.4	50.3	62.1	74.8	93.6	112.0	130.4
-67.5°	10.0	12.6	15.6	19.7	27.5	36.1	45.2	55.9	67.2	77.6	89.6
-70°	9.1	9.8	11.9	14.7	17.7	22.4	30.0	38.1	46.1	53.9	62.7
-72.5°	8.6	9.1	9.7	10.5	12.8	15.5	18.7	22.1	27.3	33.5	39.6
-75°	8.0	8.3	8.7	9.2	9.9	10.7	11.8	14.3	17.0	19.7	22.3
-77.5°	7.5	7.7	7.9	8.1	8.4	8.9	9.5	10.1	11.0	12.1	13.3
-80°	6.9	7.1	7.3	7.4	7.5	7.5	7.7	7.9	8.2	8.6	9.2
-82.5°	6.4	6.5	6.6	6.8	6.6	6.4	6.3	6.2	6.4	6.6	6.8
-85°	5.8	5.9	6.0	6.1	5.9	5.7	5.5	5.3	5.3	5.4	5.4
-87.5°	5.3	5.3	5.4	5.4	5.2	4.9	4.7	4.5	4.5	4.5	4.6
-90°	4.5	4.2	3.9	3.6	3.6	3.6	3.6	3.6	3.3	3.0	2.7



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	3.6	3.6	3.6	3.6	3.6	3.9	4.2	4.5	4.8	5.4	5.9
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.1	1.8
85°	3.2	3.0	2.8	2.6	2.4	2.4	2.4	2.4	2.4	2.1	1.8
82.5°	3.6	3.3	3.0	2.7	2.4	2.4	2.4	2.4	2.4	2.1	1.8
80°	3.6	3.4	3.3	3.2	3.2	3.0	2.9	2.7	2.4	2.1	1.8
77.5°	3.7	3.6	3.6	3.6	3.6	3.4	3.1	2.7	2.4	2.1	1.8
75°	3.7	3.6	3.7	3.7	3.6	3.5	3.4	3.4	3.4	3.2	2.9
72.5°	4.7	4.5	4.4	4.3	4.2	4.1	4.0	3.9	3.7	3.6	3.5
70°	6.4	6.3	6.1	5.9	5.7	5.5	5.3	5.0	4.6	4.6	4.6
67.5°	9.3	9.5	9.4	9.0	8.1	7.2	6.8	6.3	5.8	5.8	6.2
65°	13.7	12.0	10.9	9.9	9.1	8.4	8.0	7.5	7.0	7.2	8.2
62.5°	16.3	12.8	10.9	10.2	9.8	9.4	8.7	8.2	8.0	8.2	9.1
60°	19.0	13.7	10.2	9.6	9.0	8.4	8.3	8.3	8.3	8.4	8.8
57.5°	20.3	14.0	9.4	9.1	8.8	8.4	8.4	8.5	8.5	8.3	8.7
55°	19.8	14.1	9.7	9.3	9.2	9.3	9.3	8.8	8.5	8.3	8.6
52.5°	18.1	13.6	10.4	9.6	9.5	9.1	8.3	8.8	9.3	9.7	10.1
50°	16.1	12.8	11.2	10.4	10.4	10.5	10.5	11.1	11.7	12.1	12.6
47.5°	14.8	12.9	12.8	12.6	12.9	13.6	13.9	14.5	16.3	17.2	17.6
45°	14.9	15.8	16.5	17.0	17.0	20.4	22.8	24.1	25.7	27.2	28.3
42.5°	20.1	22.4	24.5	27.6	29.5	35.1	38.0	34.4	42.0	48.5	50.1
40°	30.8	34.2	41.5	49.6	59.4	63.6	83.4	84.3	92.9	114.4	121.3
37.5°	46.9	56.4	81.9	103.3	137.5	157.9	183.0	207.1	226.6	246.5	260.1
35°	73.1	121.7	160.0	227.1	273.0	296.2	326.1	361.8	376.9	439.6	487.5
32.5°	156.2	243.4	347.5	401.1	461.3	507.4	500.9	649.4	706.6	800.8	877.4
30°	288.7	497.2	776.4	776.4	765.6	1019.5	1112.4	1304.1	1500.7	1631.6	1944.8
27.5°	667.4	1109.7	1552.0	1560.9	1752.5	2282.7	2584.6	2675.3	3528.3	4076.1	4823.2
25°	1229.7	1957.9	2567.9	2851.8	3420.9	4284.6	4796.0	5405.6	6678.7	8129.4	9045.2
22.5°	1831.5	2607.5	3524.2	4170.7	5261.4	6372.5	7302.3	8647.7	10358.7	11977.4	13072.6
20°	2284.4	3196.1	4490.9	5848.9	7230.6	8623.5	10067.9	11916.5	14232.7	16203.8	17985.4
17.5°	3208.0	4171.9	5924.4	7771.4	9646.7	11134.8	13415.9	15633.0	18454.9	21315.1	23530.5
15°	4574.7	6128.4	7881.7	10277.6	12915.2	15192.4	17610.9	21501.8	24934.7	28610.9	31895.5
12.5°	6328.5	8387.7	10711.1	13466.5	16923.4	20497.1	24185.7	28292.5	32782.7	37198.4	41885.9
10°	7966.0	10796.0	13795.8	17186.2	21142.1	25655.1	30162.0	34815.3	41054.8	46709.8	51722.3
7.5°	9096.6	12429.7	16111.4	20255.5	25138.3	29938.3	35029.3	41356.3	48645.6	55058.0	60194.9
5°	10111.8	13888.8	17565.0	21754.3	27431.2	32917.6	38933.0	46633.8	54931.6	61963.6	67083.1
2.5°	10995.7	15060.2	18630.4	22850.8	29083.6	34791.9	41360.5	50538.1	60204.8	67248.4	72650.0
0°	11722.9	15689.6	19233.1	23580.1	30170.2	36049.5	42788.2	52994.4	64121.7	71237.2	76429.5
-2.5°	11018.9	14617.4	18115.1	22518.1	29159.2	35180.3	42463.7	52845.1	63765.4	71439.9	76801.1
-5°	10487.2	13773.3	17093.7	21450.5	27291.6	32874.8	39709.3	50385.8	61879.8	69634.2	75058.9
-7.5°	10075.1	12943.0	15961.9	19973.6	25317.0	31237.6	38565.6	48866.7	59727.7	67570.4	72485.7
-10°	9625.8	12089.6	15379.7	19423.2	24619.3	30263.7	36773.7	46302.7	57276.6	64822.5	70579.5
-12.5°	9489.0	12090.4	15404.4	18915.3	23694.9	29115.3	35321.9	43438.6	51849.9	59762.7	64811.2
-15°	9268.3	11908.2	15151.5	18453.7	22786.8	28007.2	33188.4	39186.7	46217.2	51934.6	57208.5
-17.5°	8835.6	11372.4	13809.9	16895.4	21112.7	25952.4	29878.3	34595.5	39667.8	44027.6	48005.7
-20°	7799.8	9525.0	11835.2	14744.9	18359.0	22277.8	25852.3	29255.8	32515.5	35836.8	38137.7



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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°	5968.3	7625.0	9561.9	11978.9	14843.9	18259.1	21418.0	23723.1	26316.0	28707.6	30674.0
-25°	4364.6	5578.4	7386.2	9448.6	11318.3	14053.7	16477.9	18034.7	20310.6	22098.5	23800.6
-27.5°	3156.3	4345.0	5819.3	7448.9	8850.7	10320.2	12460.2	13946.8	15736.8	17107.8	18527.5
-30°	2154.3	3463.4	4822.0	6155.0	7221.5	8331.7	9517.6	10983.9	12421.0	13572.8	14598.4
-32.5°	1494.2	2442.8	3770.6	5012.5	5976.4	6822.8	7602.1	8716.0	9791.4	10728.9	11497.6
-35°	915.4	1588.2	2507.7	3690.4	4709.4	5522.8	6241.4	6951.0	7638.9	8344.3	8938.6
-37.5°	774.5	935.1	1508.1	2322.4	3293.0	4198.4	4902.3	5488.2	6007.5	6544.3	6966.9
-40°	684.4	780.5	924.3	1222.2	1968.8	2721.4	3480.4	4110.9	4682.0	5158.0	5528.1
-42.5°	625.1	689.3	759.3	876.1	1014.6	1383.5	2036.2	2672.6	3292.1	3811.5	4247.0
-45°	606.6	638.9	676.8	739.2	796.5	908.8	1029.9	1155.5	1648.0	2170.6	2631.0
-47.5°	564.6	616.3	650.7	677.6	709.5	760.2	806.7	866.0	979.2	1091.4	1183.1
-50°	509.0	565.5	612.9	659.0	691.5	713.7	730.6	761.3	806.4	850.3	885.7
-52.5°	441.7	496.4	551.6	607.5	653.7	696.5	736.6	764.4	785.4	803.4	812.6
-55°	380.4	426.2	472.3	528.6	584.4	638.0	689.4	733.3	774.2	812.4	834.0
-57.5°	320.5	360.0	401.1	451.4	501.0	549.7	599.6	650.2	699.7	745.9	772.6
-60°	263.5	298.5	335.7	376.3	419.3	464.3	507.3	550.1	592.7	630.4	652.6
-62.5°	207.6	237.1	267.4	299.5	333.3	368.8	404.4	440.5	476.4	506.7	525.4
-65°	150.8	174.9	198.0	221.4	245.2	272.0	300.2	327.8	354.3	375.1	388.7
-67.5°	105.4	121.0	135.1	149.0	165.8	184.9	205.2	224.9	244.0	258.3	267.9
-70°	71.6	80.2	88.0	97.0	108.1	119.5	131.4	142.8	153.7	162.1	168.5
-72.5°	45.7	51.5	57.0	63.2	69.2	75.7	82.6	89.1	95.2	99.5	102.8
-75°	24.7	27.8	32.3	36.6	40.5	45.3	50.1	54.7	59.0	61.3	62.8
-77.5°	15.2	17.2	19.1	21.0	22.7	25.3	28.2	31.0	33.9	35.2	36.1
-80°	9.9	10.8	11.8	12.8	13.9	15.4	17.0	18.6	20.2	20.7	21.0
-82.5°	7.0	7.3	7.7	8.1	8.5	9.4	10.5	11.5	12.6	13.3	14.0
-85°	5.5	5.6	5.6	5.7	5.7	6.2	6.8	7.4	8.0	8.4	8.8
-87.5°	4.6	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.8	5.1	5.4
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.1	1.8



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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°	6.5	7.1	6.5	5.9	6.5	7.1	6.5	5.9	5.4	4.8	4.5
87.5°	1.5	1.2	0.6	0.0	0.6	1.2	1.5	1.8	2.1	2.4	2.4
85°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.4
82.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.4
80°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.8	2.1	2.4	2.7
77.5°	1.5	1.2	1.8	2.4	1.8	1.2	1.5	1.8	2.1	2.4	2.7
75°	2.7	2.4	2.4	2.4	2.4	2.4	2.7	2.9	3.2	3.4	3.4
72.5°	3.5	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.6	3.7	3.9
70°	4.7	4.8	4.8	4.8	4.8	4.8	4.7	4.6	4.6	4.6	5.0
67.5°	6.6	7.0	7.1	7.1	7.1	7.0	6.6	6.2	5.8	5.8	6.3
65°	9.3	10.4	10.1	9.5	10.1	10.4	9.3	8.2	7.2	7.0	7.5
62.5°	9.8	10.5	10.7	10.7	10.7	10.5	9.8	9.1	8.2	8.0	8.2
60°	9.1	9.5	9.5	9.5	9.5	9.5	9.1	8.8	8.4	8.3	8.3
57.5°	9.0	9.4	9.5	9.5	9.5	9.4	9.0	8.7	8.3	8.5	8.5
55°	9.0	9.4	9.5	9.5	9.5	9.4	9.0	8.6	8.3	8.5	8.8
52.5°	10.4	10.6	10.7	10.7	10.7	10.6	10.4	10.1	9.7	9.3	8.8
50°	13.2	13.9	13.4	11.9	13.4	13.9	13.2	12.6	12.1	11.7	11.1
47.5°	17.6	17.0	16.5	16.6	16.5	17.0	17.6	17.6	17.2	16.3	14.5
45°	28.7	28.4	28.2	28.5	28.2	28.4	28.7	28.3	27.2	25.7	24.1
42.5°	51.8	51.9	51.1	49.9	51.1	51.9	51.8	50.1	48.5	42.0	34.4
40°	121.0	110.9	97.2	89.2	97.2	110.9	121.0	121.3	114.4	92.9	84.3
37.5°	272.5	280.5	281.2	275.8	281.2	280.5	272.5	260.1	246.5	226.6	207.1
35°	517.8	536.3	537.4	527.8	537.4	536.3	517.8	487.5	439.6	376.9	361.8
32.5°	876.1	917.9	933.6	929.6	933.6	917.9	876.1	877.4	800.8	706.6	649.4
30°	1799.1	1811.7	1683.6	1449.0	1683.6	1811.7	1799.1	1944.8	1631.6	1500.7	1304.1
27.5°	5228.6	5711.2	5886.3	5809.1	5886.3	5711.2	5228.6	4823.2	4076.1	3528.3	2675.3
25°	9308.1	9626.1	9943.5	9980.3	9943.5	9626.1	9308.1	9045.2	8129.4	6678.7	5405.6
22.5°	13831.1	14283.0	14711.9	14613.8	14711.9	14283.0	13831.1	13072.6	11977.4	10358.7	8647.7
20°	19116.9	19428.5	19745.0	19394.7	19745.0	19428.5	19116.9	17985.4	16203.8	14232.7	11916.5
17.5°	25851.1	27318.4	28621.0	28031.8	28621.0	27318.4	25851.1	23530.5	21315.1	18454.9	15633.0
15°	34988.1	37542.0	39039.9	38960.6	39039.9	37542.0	34988.1	31895.5	28610.9	24934.7	21501.8
12.5°	45517.3	48186.2	49714.8	49398.6	49714.8	48186.2	45517.3	41885.9	37198.4	32782.7	28292.5
10°	55017.0	57112.7	58928.9	59640.3	58928.9	57112.7	55017.0	51722.3	46709.8	41054.8	34815.3
7.5°	63407.5	64969.0	66484.0	66754.7	66484.0	64969.0	63407.5	60194.9	55058.0	48645.6	41356.3
5°	70314.7	72526.8	73383.2	73722.8	73383.2	72526.8	70314.7	67083.1	61963.6	54931.6	46633.8
2.5°	75889.1	77912.8	78984.0	78667.8	78984.0	77912.8	75889.1	72650.0	67248.4	60204.8	50538.1
0°	79091.5	80693.3	81568.2	81359.0	81568.2	80693.3	79091.5	76429.5	71237.2	64121.7	52994.4
-2.5°	79407.2	80484.2	81168.6	80900.1	81168.6	80484.2	79407.2	76801.1	71439.9	63765.4	52845.1
-5°	77223.3	78099.9	78459.4	78613.1	78459.4	78099.9	77223.3	75058.9	69634.2	61879.8	50385.8
-7.5°	74214.3	75391.8	75212.7	75522.5	75212.7	75391.8	74214.3	72485.7	67570.4	59727.7	48866.7
-10°	72422.2	73508.9	73351.5	73435.1	73351.5	73508.9	72422.2	70579.5	64822.5	57276.6	46302.7
-12.5°	68073.9	69651.6	69893.8	70165.6	69893.8	69651.6	68073.9	64811.2	59762.7	51849.9	43438.6
-15°	60670.2	62403.8	63451.9	63687.8	63451.9	62403.8	60670.2	57208.5	51934.6	46217.2	39186.7
-17.5°	51313.0	53710.5	55396.0	55787.8	55396.0	53710.5	51313.0	48005.7	44027.6	39667.8	34595.5
-20°	40947.6	42663.8	43537.1	44007.8	43537.1	42663.8	40947.6	38137.7	35836.8	32515.5	29255.8



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	32229.5	33362.8	33849.4	33928.9	33849.4	33362.8	32229.5	30674.0	28707.6	26316.0	23723.1
-25°	25179.0	25951.5	26282.6	26771.8	26282.6	25951.5	25179.0	23800.6	22098.5	20310.6	18034.7
-27.5°	19539.8	20219.0	20521.9	20972.1	20521.9	20219.0	19539.8	18527.5	17107.8	15736.8	13946.8
-30°	15290.2	15699.4	15801.5	15823.9	15801.5	15699.4	15290.2	14598.4	13572.8	12421.0	10983.9
-32.5°	12094.5	12555.4	12830.6	12953.2	12830.6	12555.4	12094.5	11497.6	10728.9	9791.4	8716.0
-35°	9383.6	9687.4	9868.3	10071.8	9868.3	9687.4	9383.6	8938.6	8344.3	7638.9	6951.0
-37.5°	7295.5	7520.8	7645.4	7687.3	7645.4	7520.8	7295.5	6966.9	6544.3	6007.5	5488.2
-40°	5823.3	6046.9	6181.2	6201.4	6181.2	6046.9	5823.3	5528.1	5158.0	4682.0	4110.9
-42.5°	4577.8	4856.5	5036.7	5078.1	5036.7	4856.5	4577.8	4247.0	3811.5	3292.1	2672.6
-45°	2967.8	3227.2	3364.4	3355.7	3364.4	3227.2	2967.8	2631.0	2170.6	1648.0	1155.5
-47.5°	1241.7	1283.5	1301.5	1295.7	1301.5	1283.5	1241.7	1183.1	1091.4	979.2	866.0
-50°	913.6	937.3	950.3	953.3	950.3	937.3	913.6	885.7	850.3	806.4	761.3
-52.5°	820.4	829.1	832.2	832.1	832.2	829.1	820.4	812.6	803.4	785.4	764.4
-55°	854.1	873.3	880.7	880.8	880.7	873.3	854.1	834.0	812.4	774.2	733.3
-57.5°	796.9	818.4	828.4	830.9	828.4	818.4	796.9	772.6	745.9	699.7	650.2
-60°	672.4	689.7	697.3	699.0	697.3	689.7	672.4	652.6	630.4	592.7	550.1
-62.5°	541.4	554.5	558.5	557.5	558.5	554.5	541.4	525.4	506.7	476.4	440.5
-65°	400.1	409.2	409.8	406.5	409.8	409.2	400.1	388.7	375.1	354.3	327.8
-67.5°	275.6	281.4	281.6	279.3	281.6	281.4	275.6	267.9	258.3	244.0	224.9
-70°	173.9	178.2	178.5	177.1	178.5	178.2	173.9	168.5	162.1	153.7	142.8
-72.5°	105.7	108.1	110.2	111.7	110.2	108.1	105.7	102.8	99.5	95.2	89.1
-75°	63.9	64.8	64.7	64.2	64.7	64.8	63.9	62.8	61.3	59.0	54.7
-77.5°	37.0	37.7	39.1	40.4	39.1	37.7	37.0	36.1	35.2	33.9	31.0
-80°	21.2	21.3	22.0	22.6	22.0	21.3	21.2	21.0	20.7	20.2	18.6
-82.5°	14.7	15.4	15.5	15.5	15.5	15.4	14.7	14.0	13.3	12.6	11.5
-85°	9.1	9.5	10.1	10.7	10.1	9.5	9.1	8.8	8.4	8.0	7.4
-87.5°	5.6	5.9	5.9	5.9	5.9	5.9	5.6	5.4	5.1	4.8	4.8
-90°	1.5	1.2	0.6	0.0	0.6	1.2	1.5	1.8	2.1	2.4	2.4



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	4.2	3.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.7	3.0	3.3	3.6
85°	2.4	2.4	2.4	2.6	2.8	3.0	3.2	3.2	3.3	3.4	3.6
82.5°	2.4	2.4	2.4	2.7	3.0	3.3	3.6	3.6	3.6	3.6	3.6
80°	2.9	3.0	3.2	3.2	3.3	3.4	3.6	3.7	3.6	3.6	3.7
77.5°	3.1	3.4	3.6	3.6	3.6	3.6	3.7	4.0	4.2	4.3	4.3
75°	3.4	3.5	3.6	3.7	3.7	3.6	3.7	4.0	4.3	4.6	4.8
72.5°	4.0	4.1	4.2	4.3	4.4	4.5	4.7	4.9	5.0	4.9	4.8
70°	5.3	5.5	5.7	5.9	6.1	6.3	6.4	6.5	6.5	6.6	6.0
67.5°	6.8	7.2	8.1	9.0	9.4	9.5	9.3	8.7	8.4	8.4	7.5
65°	8.0	8.4	9.1	9.9	10.9	12.0	13.7	13.9	13.2	11.6	9.1
62.5°	8.7	9.4	9.8	10.2	10.9	12.8	16.3	18.3	18.9	16.7	12.7
60°	8.3	8.4	9.0	9.6	10.2	13.7	19.0	22.7	25.0	21.2	15.9
57.5°	8.4	8.4	8.8	9.1	9.4	14.0	20.3	26.9	31.0	24.4	18.3
55°	9.3	9.3	9.2	9.3	9.7	14.1	19.8	26.5	30.4	26.4	19.5
52.5°	8.3	9.1	9.5	9.6	10.4	13.6	18.1	24.2	26.2	23.1	19.0
50°	10.5	10.5	10.4	10.4	11.2	12.8	16.1	21.0	21.1	19.7	16.4
47.5°	13.9	13.6	12.9	12.6	12.8	12.9	14.8	17.0	18.3	16.8	14.4
45°	22.8	20.4	17.0	17.0	16.5	15.8	14.9	17.5	18.2	17.2	13.4
42.5°	38.0	35.1	29.5	27.6	24.5	22.4	20.1	21.4	21.8	20.0	18.1
40°	83.4	63.6	59.4	49.6	41.5	34.2	30.8	27.8	27.8	26.1	25.3
37.5°	183.0	157.9	137.5	103.3	81.9	56.4	46.9	39.5	34.9	37.6	36.1
35°	326.1	296.2	273.0	227.1	160.0	121.7	73.1	56.9	52.6	55.2	50.6
32.5°	500.9	507.4	461.3	401.1	347.5	243.4	156.2	85.5	94.0	89.1	73.2
30°	1112.4	1019.5	765.6	776.4	776.4	497.2	288.7	225.6	168.0	138.8	105.4
27.5°	2584.6	2282.7	1752.5	1560.9	1552.0	1109.7	667.4	460.4	294.7	217.7	160.7
25°	4796.0	4284.6	3420.9	2851.8	2567.9	1957.9	1229.7	870.5	561.0	315.1	219.4
22.5°	7302.3	6372.5	5261.4	4170.7	3524.2	2607.5	1831.5	1373.2	859.7	451.1	290.4
20°	10067.9	8623.5	7230.6	5848.9	4490.9	3196.1	2284.4	1873.0	1256.1	637.2	358.5
17.5°	13415.9	11134.8	9646.7	7771.4	5924.4	4171.9	3208.0	2521.9	1752.9	793.4	420.5
15°	17610.9	15192.4	12915.2	10277.6	7881.7	6128.4	4574.7	3381.0	2341.1	1091.8	560.2
12.5°	24185.7	20497.1	16923.4	13466.5	10711.1	8387.7	6328.5	4580.4	3028.2	1624.0	787.9
10°	30162.0	25655.1	21142.1	17186.2	13795.8	10796.0	7966.0	5530.1	3626.3	2161.9	1037.0
7.5°	35029.3	29938.3	25138.3	20255.5	16111.4	12429.7	9096.6	6323.6	4132.3	2647.4	1296.2
5°	38933.0	32917.6	27431.2	21754.3	17565.0	13888.8	10111.8	7038.4	4549.2	3073.1	1552.9
2.5°	41360.5	34791.9	29083.6	22850.8	18630.4	15060.2	10995.7	7655.3	4901.9	3407.1	1776.7
0°	42788.2	36049.5	30170.2	23580.1	19233.1	15689.6	11722.9	8141.4	5187.5	3661.2	1972.0
-2.5°	42463.7	35180.3	29159.2	22518.1	18115.1	14617.4	11018.9	7959.0	5457.3	3716.4	1899.9
-5°	39709.3	32874.8	27291.6	21450.5	17093.7	13773.3	10487.2	7812.0	5601.8	3685.9	1789.7
-7.5°	38565.6	31237.6	25317.0	19973.6	15961.9	12943.0	10075.1	7719.8	5601.7	3635.1	1814.0
-10°	36773.7	30263.7	24619.3	19423.2	15379.7	12089.6	9625.8	7532.4	5485.7	3480.2	1771.1
-12.5°	35321.9	29115.3	23694.9	18915.3	15404.4	12090.4	9489.0	7298.4	5249.2	3219.1	1649.9
-15°	33188.4	28007.2	22786.8	18453.7	15151.5	11908.2	9268.3	7016.2	4739.9	2791.1	1442.0
-17.5°	29878.3	25952.4	21112.7	16895.4	13809.9	11372.4	8835.6	6368.8	4028.4	2237.1	1113.3
-20°	25852.3	22277.8	18359.0	14744.9	11835.2	9525.0	7799.8	5350.7	3230.7	1765.0	987.6



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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°	21418.0	18259.1	14843.9	11978.9	9561.9	7625.0	5968.3	4034.5	2334.0	1247.9	855.0
-25°	16477.9	14053.7	11318.3	9448.6	7386.2	5578.4	4364.6	2945.5	1713.4	921.3	724.6
-27.5°	12460.2	10320.2	8850.7	7448.9	5819.3	4345.0	3156.3	1989.8	1105.3	787.7	640.7
-30°	9517.6	8331.7	7221.5	6155.0	4822.0	3463.4	2154.3	1336.7	846.8	675.1	581.2
-32.5°	7602.1	6822.8	5976.4	5012.5	3770.6	2442.8	1494.2	868.1	705.6	615.9	556.8
-35°	6241.4	5522.8	4709.4	3690.4	2507.7	1588.2	915.4	740.8	632.0	570.2	541.6
-37.5°	4902.3	4198.4	3293.0	2322.4	1508.1	935.1	774.5	661.4	583.4	553.8	511.8
-40°	3480.4	2721.4	1968.8	1222.2	924.3	780.5	684.4	606.1	571.5	527.2	474.0
-42.5°	2036.2	1383.5	1014.6	876.1	759.3	689.3	625.1	591.0	547.3	489.7	423.7
-45°	1029.9	908.8	796.5	739.2	676.8	638.9	606.6	559.3	504.9	439.7	368.8
-47.5°	806.7	760.2	709.5	677.6	650.7	616.3	564.6	511.3	449.2	384.9	326.0
-50°	730.6	713.7	691.5	659.0	612.9	565.5	509.0	449.6	392.8	337.9	283.6
-52.5°	736.6	696.5	653.7	607.5	551.6	496.4	441.7	392.1	341.7	291.5	243.4
-55°	689.4	638.0	584.4	528.6	472.3	426.2	380.4	335.7	290.5	244.8	207.0
-57.5°	599.6	549.7	501.0	451.4	401.1	360.0	320.5	279.5	241.9	206.5	171.9
-60°	507.3	464.3	419.3	376.3	335.7	298.5	263.5	230.0	198.3	167.2	136.4
-62.5°	404.4	368.8	333.3	299.5	267.4	237.1	207.6	179.7	153.1	127.2	104.1
-65°	300.2	272.0	245.2	221.4	198.0	174.9	150.8	130.4	112.0	93.6	74.8
-67.5°	205.2	184.9	165.8	149.0	135.1	121.0	105.4	89.6	77.6	67.2	55.9
-70°	131.4	119.5	108.1	97.0	88.0	80.2	71.6	62.7	53.9	46.1	38.1
-72.5°	82.6	75.7	69.2	63.2	57.0	51.5	45.7	39.6	33.5	27.3	22.1
-75°	50.1	45.3	40.5	36.6	32.3	27.8	24.7	22.3	19.7	17.0	14.3
-77.5°	28.2	25.3	22.7	21.0	19.1	17.2	15.2	13.3	12.1	11.0	10.1
-80°	17.0	15.4	13.9	12.8	11.8	10.8	9.9	9.2	8.6	8.2	7.9
-82.5°	10.5	9.4	8.5	8.1	7.7	7.3	7.0	6.8	6.6	6.4	6.2
-85°	6.8	6.2	5.7	5.7	5.6	5.6	5.5	5.4	5.4	5.3	5.3
-87.5°	4.8	4.7	4.7	4.7	4.6	4.6	4.6	4.6	4.5	4.5	4.5
-90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.7	3.0	3.3	3.6





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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°	3.9	4.2	4.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	3.8	4.0	4.1	4.3	4.4	4.5	4.6	4.8	4.8	4.8	4.8
85°	3.9	4.2	4.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	3.9	4.2	4.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	4.0	4.3	4.6	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	4.3	4.4	4.6	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	4.8	4.7	4.7	4.8	4.9	4.8	4.8	4.8	4.9	4.8	4.8
72.5°	4.8	4.8	4.8	4.9	5.1	5.1	5.0	4.9	5.0	5.0	4.9
70°	5.4	4.9	4.8	5.0	5.3	5.5	5.4	5.3	5.2	5.3	5.1
67.5°	6.5	5.8	5.2	5.1	5.3	5.6	5.8	5.6	5.5	5.5	5.4
65°	8.0	6.9	5.9	5.6	5.5	5.6	5.9	5.9	5.7	5.7	5.7
62.5°	9.9	8.3	7.1	6.2	5.8	5.7	5.9	5.9	5.9	5.8	5.8
60°	12.0	9.4	8.2	7.2	6.3	5.9	5.9	5.9	5.9	5.9	5.9
57.5°	13.4	9.9	8.8	8.0	7.0	6.2	5.9	5.9	5.9	5.9	5.9
55°	13.9	10.2	9.4	8.5	7.6	6.7	6.1	5.9	5.9	5.9	5.9
52.5°	13.6	10.8	9.9	9.0	8.1	7.2	6.5	5.9	5.9	5.9	5.9
50°	12.0	11.5	10.5	9.5	8.5	7.7	7.0	6.3	5.9	5.9	5.9
47.5°	12.2	12.2	11.4	10.0	8.9	8.2	7.4	6.7	5.9	5.9	5.9
45°	13.8	13.2	12.4	10.9	9.4	8.6	7.8	7.0	6.2	5.9	5.9
42.5°	16.8	15.7	13.7	11.9	10.5	9.1	8.3	7.4	6.6	6.0	5.9
40°	23.2	19.7	16.1	14.8	11.9	9.5	8.6	7.8	6.9	6.2	6.0
37.5°	31.1	26.1	20.7	20.6	14.7	11.0	9.0	8.1	7.3	6.6	6.2
35°	42.9	34.6	30.5	29.4	22.3	12.7	9.4	8.4	7.7	6.9	6.3
32.5°	56.6	50.6	46.9	39.5	32.1	14.6	10.5	9.0	8.2	7.2	6.5
30°	83.1	79.5	68.1	50.7	43.3	23.6	12.4	9.7	8.7	7.5	6.7
27.5°	124.2	115.1	94.5	69.5	53.7	34.5	14.7	10.5	9.2	7.9	6.9
25°	167.9	153.1	129.2	93.4	64.8	46.1	17.2	11.4	9.8	8.3	7.2
22.5°	220.2	189.1	168.3	120.0	78.9	57.9	23.3	13.4	10.5	8.7	7.4
20°	268.4	223.4	210.2	146.3	98.9	69.1	32.7	15.5	11.2	9.1	7.6
17.5°	315.2	269.0	242.4	177.4	120.8	81.6	42.0	17.6	11.9	9.5	7.8
15°	403.3	332.6	280.1	208.9	141.4	95.3	50.9	19.7	12.7	9.9	8.0
12.5°	504.4	400.1	323.7	240.3	160.8	109.6	59.5	21.7	13.4	10.3	8.1
10°	609.0	469.9	371.5	270.9	178.7	124.2	67.5	24.4	14.5	10.7	8.2
7.5°	714.6	540.6	421.5	300.2	198.8	146.5	85.9	28.7	15.7	11.0	8.2
5°	811.5	607.1	474.1	346.1	237.1	176.5	106.3	33.2	16.9	11.4	8.3
2.5°	871.4	665.0	524.6	391.7	274.4	205.6	126.4	37.5	18.0	11.7	8.3
0°	922.4	718.0	570.6	433.9	310.2	233.0	145.0	41.6	19.0	11.9	8.3
-2.5°	923.2	719.6	586.1	474.0	349.9	262.4	167.8	53.8	26.0	15.1	9.4
-5°	915.8	717.4	599.8	510.5	386.7	289.1	187.5	65.2	32.8	18.1	10.5
-7.5°	933.6	724.7	612.5	539.6	420.0	313.0	203.4	75.6	38.9	20.9	11.5
-10°	945.8	734.1	620.8	538.0	420.2	319.8	212.6	84.6	44.4	23.3	12.4
-12.5°	941.9	736.0	625.9	531.0	411.5	311.3	204.4	90.9	49.0	25.3	13.2
-15°	919.9	729.6	627.8	518.0	399.2	301.2	194.7	95.2	52.9	27.3	13.9
-17.5°	866.4	714.2	626.3	498.7	383.1	289.7	183.9	98.1	55.7	29.2	14.9
-20°	785.1	678.8	617.7	472.6	363.1	276.8	172.3	99.4	57.5	30.4	15.9



REPORT NUMBER: P701332 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-CV2-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	709.1	636.1	567.7	446.9	342.3	263.0	160.5	99.1	58.0	30.9	16.7
-25°	632.7	596.2	516.6	413.0	324.1	245.4	153.8	97.0	57.3	30.6	17.1
-27.5°	581.2	554.5	469.8	378.1	301.7	228.8	150.7	95.9	55.8	29.4	17.1
-30°	543.6	504.4	428.9	344.7	277.0	206.2	145.4	93.1	54.4	28.7	16.7
-32.5°	520.7	461.8	388.6	315.9	250.5	183.2	133.9	88.4	51.8	28.3	16.5
-35°	488.7	422.3	348.9	284.8	223.6	166.2	119.7	81.9	47.9	27.3	16.0
-37.5°	454.1	381.1	313.0	253.3	196.5	147.8	106.7	72.3	42.8	25.7	15.3
-40°	407.1	339.8	277.6	223.8	173.4	128.0	93.0	63.3	39.3	23.5	14.2
-42.5°	358.0	300.2	245.8	194.9	150.4	112.0	79.1	53.8	35.3	21.6	12.8
-45°	314.4	262.1	214.5	169.7	127.1	95.5	68.2	44.7	30.9	19.6	11.6
-47.5°	271.5	227.4	185.1	143.9	108.6	79.6	56.9	39.3	26.1	17.2	10.8
-50°	233.8	194.6	157.2	121.9	90.1	66.8	46.6	33.5	22.6	14.2	10.0
-52.5°	201.0	164.7	131.3	100.2	75.2	53.7	39.8	27.6	18.9	12.4	9.1
-55°	170.1	136.1	106.1	81.7	60.7	44.7	32.6	23.1	14.9	11.1	8.1
-57.5°	139.0	107.4	85.0	64.8	49.2	36.6	26.3	18.2	12.8	9.7	7.9
-60°	108.0	85.5	65.7	51.8	39.6	29.0	20.5	14.1	11.1	8.5	7.7
-62.5°	82.8	64.6	52.2	40.6	30.6	21.9	15.0	12.1	9.3	8.2	7.4
-65°	62.1	50.3	39.4	30.2	21.8	15.6	12.6	9.9	8.6	7.9	7.1
-67.5°	45.2	36.1	27.5	19.7	15.6	12.6	10.0	9.0	8.3	7.5	6.8
-70°	30.0	22.4	17.7	14.7	11.9	9.8	9.1	8.5	7.9	7.2	6.5
-72.5°	18.7	15.5	12.8	10.5	9.7	9.1	8.6	8.1	7.5	6.8	6.2
-75°	11.8	10.7	9.9	9.2	8.7	8.3	8.0	7.6	7.0	6.5	6.1
-77.5°	9.5	8.9	8.4	8.1	7.9	7.7	7.5	7.2	6.7	6.3	6.0
-80°	7.7	7.5	7.5	7.4	7.3	7.1	6.9	6.7	6.4	6.1	6.0
-82.5°	6.3	6.4	6.6	6.8	6.6	6.5	6.4	6.2	6.0	5.9	5.8
-85°	5.5	5.7	5.9	6.1	6.0	5.9	5.8	5.7	5.6	5.6	5.5
-87.5°	4.7	4.9	5.2	5.4	5.4	5.3	5.3	5.3	5.2	5.2	5.1
-90°	3.6	3.6	3.6	3.6	3.9	4.2	4.5	4.8	4.8	4.8	4.8



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
67.5°	5.1	4.8	4.8	4.8	4.8	4.8	4.8
65°	5.4	4.9	4.8	4.8	4.8	4.8	4.8
62.5°	5.6	5.1	4.8	4.8	4.8	4.8	4.8
60°	5.9	5.3	4.8	4.8	4.8	4.8	4.8
57.5°	5.9	5.5	5.0	4.8	4.8	4.8	4.8
55°	5.9	5.7	5.1	4.8	4.8	4.8	4.8
52.5°	5.9	5.9	5.3	4.8	4.8	4.8	4.8
50°	5.9	5.9	5.4	4.8	4.8	4.8	4.8
47.5°	5.9	5.9	5.6	4.8	4.8	4.8	4.8
45°	5.9	5.9	5.7	4.9	4.8	4.8	4.8
42.5°	5.9	5.9	5.8	5.0	4.8	4.8	4.8
40°	5.9	5.9	5.9	5.1	4.8	4.8	4.8
37.5°	5.9	5.9	5.9	5.2	4.8	4.8	4.8
35°	5.9	5.9	5.9	5.2	4.8	4.8	4.8
32.5°	5.9	5.9	5.9	5.3	4.8	4.8	4.8
30°	6.1	5.9	5.9	5.3	4.8	4.8	4.8
27.5°	6.2	5.9	5.9	5.3	4.8	4.8	4.8
25°	6.3	5.9	5.8	5.3	4.8	4.8	4.8
22.5°	6.5	5.9	5.8	5.3	4.8	4.8	4.8
20°	6.6	5.9	5.8	5.3	4.8	4.8	4.8
17.5°	6.8	5.9	5.8	5.2	4.8	4.8	4.8
15°	6.8	5.9	5.8	5.2	4.8	4.8	4.8
12.5°	6.9	5.9	5.8	5.1	4.8	4.8	4.8
10°	7.0	5.9	5.9	5.1	4.8	4.8	4.8
7.5°	7.0	5.9	5.9	5.0	4.8	4.8	4.8
5°	7.1	5.9	5.9	4.9	4.8	4.8	4.8
2.5°	7.1	5.9	5.9	4.9	4.8	4.8	4.8
0°	7.1	5.9	5.9	4.9	4.8	4.8	4.8
-2.5°	7.6	6.2	5.9	4.9	4.8	4.8	4.8
-5°	8.0	6.4	5.9	4.9	4.8	4.8	4.8
-7.5°	8.5	6.7	5.9	5.0	4.8	4.8	4.8
-10°	8.8	6.9	5.9	5.1	4.8	4.8	4.8
-12.5°	9.2	7.1	5.8	5.1	4.8	4.8	4.8
-15°	9.5	7.2	5.8	5.2	4.8	4.8	4.8
-17.5°	9.8	7.3	5.8	5.2	4.8	4.8	4.8
-20°	10.1	7.3	5.8	5.3	4.8	4.8	4.8



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 CATALOG NUMBER: EPH-LS-08-0320L-40-70-5S-CV2-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	10.4	7.3	5.8	5.3	4.8	4.8	4.8
-25°	10.6	7.3	5.8	5.3	4.8	4.8	4.8
-27.5°	10.6	7.2	5.9	5.3	4.8	4.8	4.8
-30°	10.4	7.1	5.9	5.3	4.8	4.8	4.8
-32.5°	10.1	6.9	6.0	5.3	4.8	4.8	4.8
-35°	9.8	6.7	6.0	5.2	4.8	4.8	4.8
-37.5°	9.5	6.5	6.1	5.2	4.8	4.8	4.8
-40°	9.1	6.6	6.1	5.1	4.8	4.8	4.8
-42.5°	8.6	6.6	6.1	5.0	4.8	4.8	4.8
-45°	8.1	6.6	6.0	5.0	4.8	4.8	4.8
-47.5°	7.5	6.6	5.8	4.9	4.8	4.8	4.8
-50°	7.3	6.6	5.7	4.9	4.8	4.8	4.8
-52.5°	7.3	6.5	5.6	4.9	4.8	4.8	4.8
-55°	7.2	6.4	5.5	4.9	4.8	4.8	4.8
-57.5°	7.0	6.2	5.3	4.9	4.8	4.8	4.8
-60°	6.8	6.0	5.2	5.0	4.8	4.8	4.8
-62.5°	6.6	5.8	5.2	5.0	4.8	4.8	4.8
-65°	6.4	5.6	5.2	5.0	4.8	4.8	4.8
-67.5°	6.1	5.5	5.3	5.0	4.8	4.8	4.8
-70°	5.8	5.5	5.3	5.0	4.8	4.8	4.8
-72.5°	5.8	5.6	5.3	5.0	4.8	4.8	4.8
-75°	5.8	5.6	5.3	5.0	4.8	4.8	4.8
-77.5°	5.9	5.6	5.3	5.0	4.8	4.8	4.8
-80°	5.9	5.5	5.2	4.9	4.8	4.8	4.8
-82.5°	5.6	5.3	5.1	4.9	4.8	4.8	4.8
-85°	5.4	5.2	5.0	4.9	4.8	4.8	4.8
-87.5°	5.1	5.0	4.9	4.8	4.8	4.8	4.8
-90°	4.8	4.8	4.8	4.8	4.8	4.8	4.8

(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

