

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: P701437 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-80-1S-CV5-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701437 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320L-57-80-1S-CV5-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 80 CRI LEDS AND 1S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

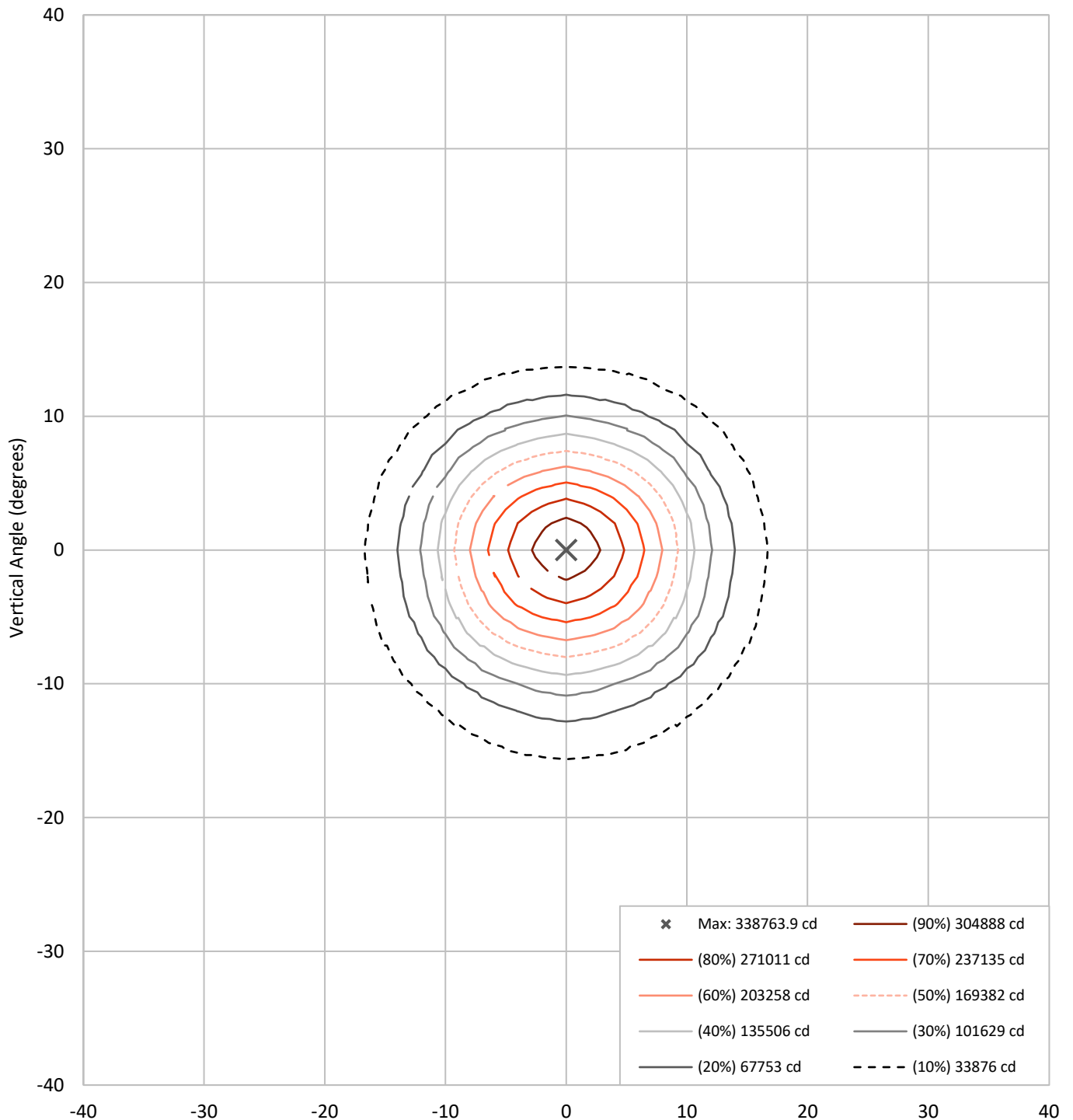
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	34828.1 lumens	Max Intensity:	338763.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	102.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.6°H x 15.4°V	Field Angle (10%):	33.2°H x 29.1°V
Beam Lumens:	16062.3 lumens	Field Lumens:	29633.3 lumens
Beam Efficiency:	46.1%	Field Efficiency:	85.1%

Input Watts (W): 341.6  
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





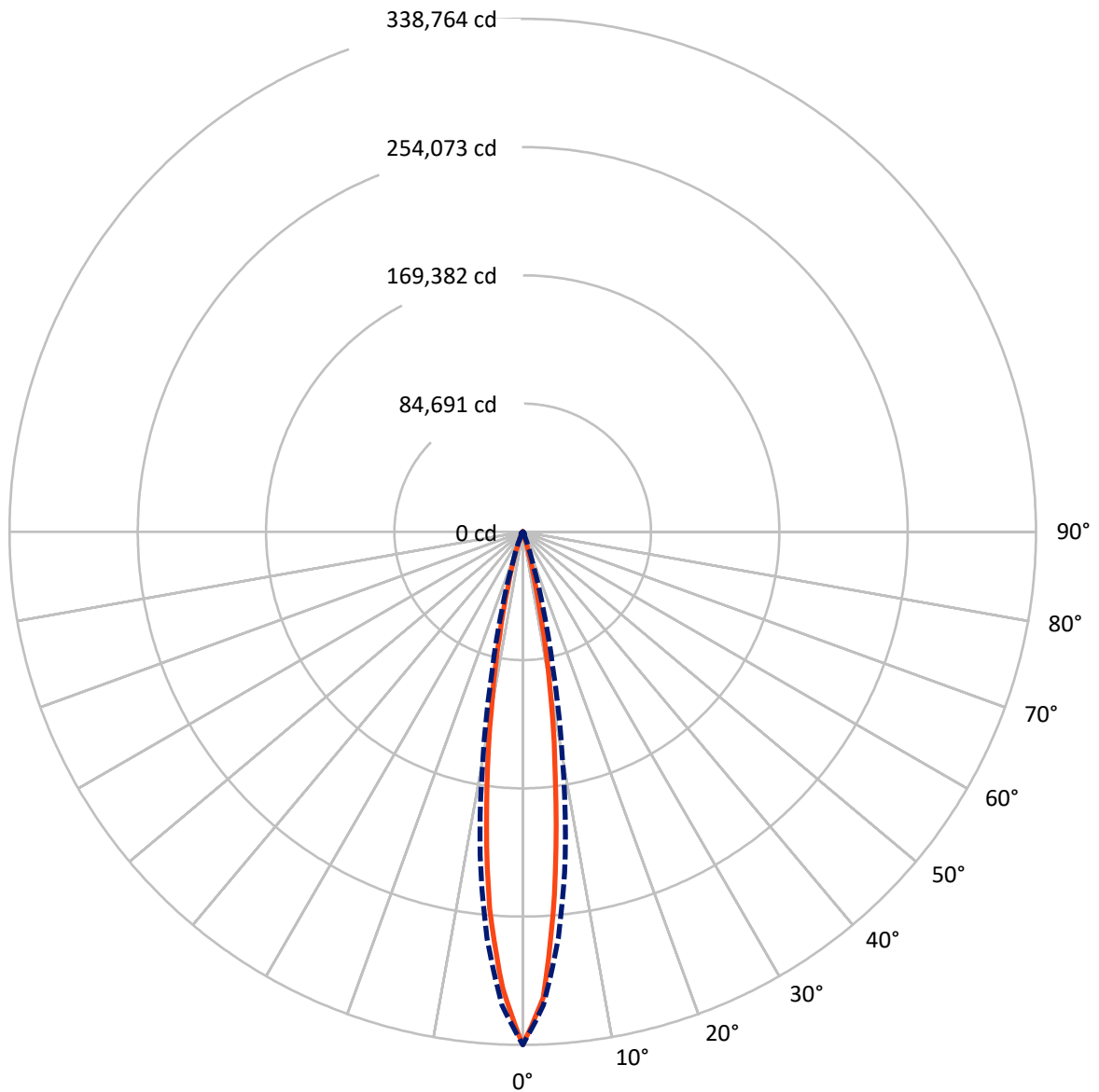
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### Lumen Table

90	0.1		0.3		0.4		0.4		0.5		0.4		0.4		0.3		0.1	
80	0.1		0.3		0.4		0.4		0.5		0.4		0.4		0.3		0.1	
70	0.1	0.1	0.1	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.1	0.1	0.1	0.1	0.1
60		0.1	0.2	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.1			
50	0.2	0.1	0.3	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.1	0.2	0.2	0.2
40		0.2	0.4	0.5	0.9	1.3	1.4	1.6	1.6	1.4	1.3	0.9	0.5	0.4	0.2			
30	0.2	0.3	0.9	2.0	3.9	4.4	6.3	12.6	12.6	6.3	4.4	3.9	2.0	0.9	0.3	0.2	0.2	0.2
20		0.7	2.8	9.5	17.7	23.5	174.6	727.3	727.3	174.6	23.5	17.7	9.5	2.8	0.7			
10	0.2	1.1	5.6	23.9	38.7	88.1	1281.1	5551.3	5551.3	1281.1	88.1	38.7	23.9	5.6	1.1	0.2	0.2	0.2
0		1.4	6.5	27.5	45.4	90.2	1374.9	5802.4	5802.4	1374.9	90.2	45.4	27.5	6.5	1.4			
-10	0.3	1.5	5.7	20.8	37.5	41.3	293.2	1138.9	1138.9	293.2	41.3	37.5	20.8	5.7	1.5	0.3	0.3	0.3
-20		1.5	4.9	11.7	30.2	34.9	38.5	75.0	75.0	38.5	34.9	30.2	11.7	4.9	1.5			
-30	0.3	1.3	4.2	7.4	18.5	34.9	40.8	41.2	41.2	40.8	34.9	18.5	7.4	4.2	1.3	0.3	0.3	0.3
-40		0.9	3.1	6.4	10.0	17.6	29.7	39.0	39.0	29.7	17.6	10.0	6.4	3.1	0.9			
-50	0.2	0.4	1.8	4.2	7.5	10.3	12.2	13.6	13.6	12.2	10.3	7.5	4.2	1.8	0.4	0.2	0.2	0.2
-60		0.2	0.6	1.7	3.3	5.2	6.8	8.1	8.1	6.8	5.2	3.3	1.7	0.6	0.2			
-70	0.1	0.6	1.5	3.6	6.1	3.6	1.5	0.6	0.1	0.6	1.5	3.6	6.1	3.6	1.5	0.1	0.1	0.1
-80		0.1	0.6	1.5	3.6	6.1	3.6	1.5	0.6	0.1	0.6	1.5	3.6	6.1	3.6			
-90	0.1		0.6		1.5		3.6		6.1		3.6		1.5		0.6		0.1	

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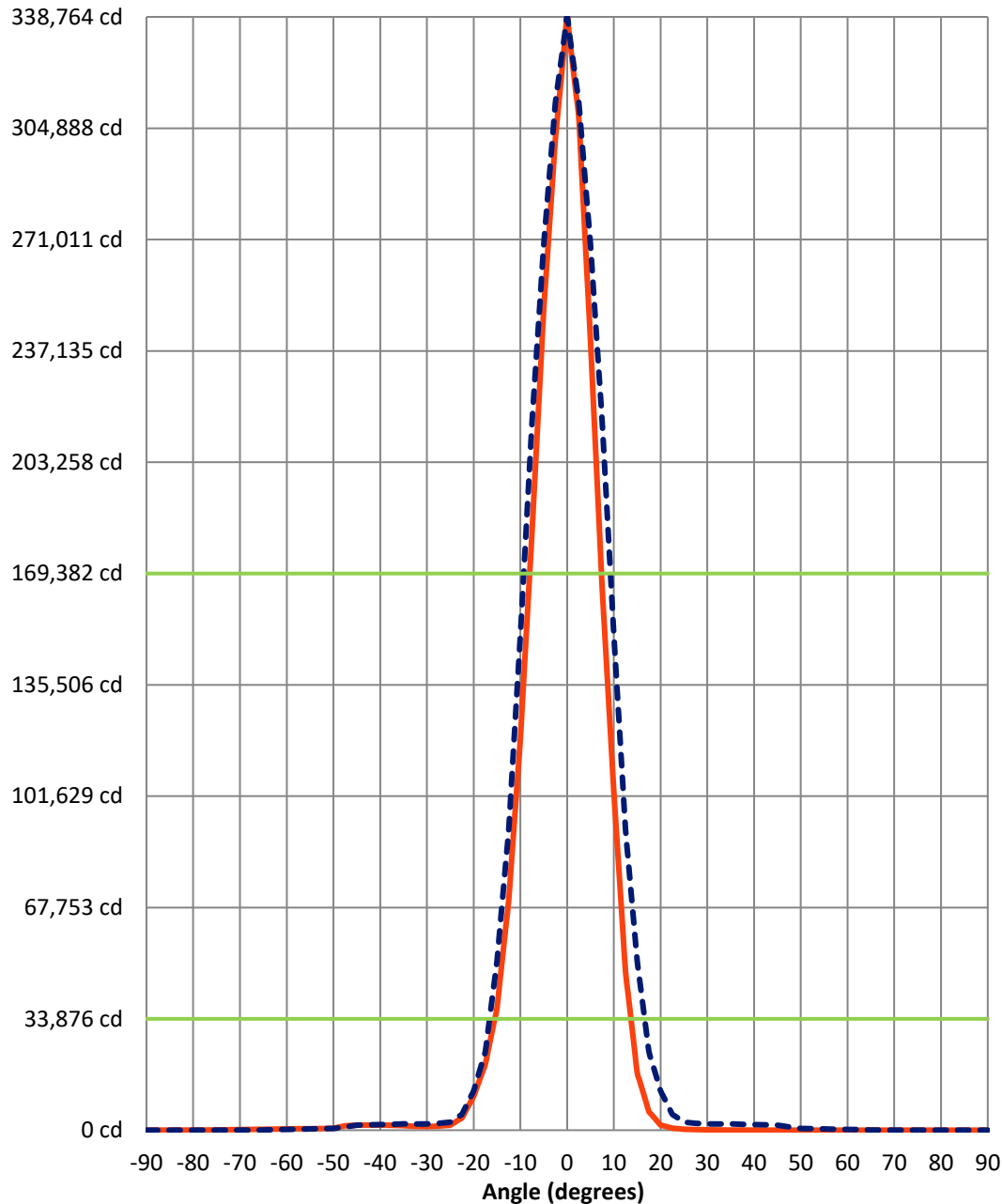
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 18.6°  
 V Angle: 15.4°  
 Lumens: 16062.3  
 Efficiency: 46.1%

**Field:**  
 H Angle: 33.2°  
 V Angle: 29.1°  
 Lumens: 29633.3  
 Efficiency: 85.1%

**Spill:**  
 Lumens: 5194.9  
 Efficiency: 14.9%

— Vertical Distribution through 0-Deg  
 - - Horizontal Distribution through 0-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.3	4.3	4.3	4.5	4.8	5.0	5.2	5.2	5.2	5.2	5.2
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
85°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
75°	4.3	4.3	4.3	4.3	4.3	4.4	4.3	4.3	4.3	4.4	4.3
72.5°	4.3	4.3	4.3	4.3	4.5	4.6	4.4	4.4	4.5	4.5	4.4
70°	4.3	4.3	4.3	4.3	4.6	4.7	4.5	4.6	4.7	4.6	4.7
67.5°	4.3	4.3	4.3	4.5	4.8	4.8	4.7	4.8	4.9	5.0	5.1
65°	4.3	4.3	4.3	4.7	5.0	5.0	5.0	5.0	5.2	5.3	5.4
62.5°	4.3	4.3	4.3	4.8	5.2	5.2	5.2	5.3	5.5	5.6	5.5
60°	4.3	4.3	4.3	5.0	5.4	5.4	5.5	5.5	5.7	5.8	5.7
57.5°	4.3	4.3	4.4	5.2	5.5	5.7	5.8	5.8	6.0	6.0	6.0
55°	4.3	4.3	4.5	5.4	5.7	5.9	6.1	6.1	6.3	6.3	6.4
52.5°	4.3	4.3	4.6	5.6	5.9	6.1	6.4	6.5	6.6	6.7	6.8
50°	4.3	4.3	4.7	5.8	6.0	6.4	6.7	6.9	6.9	7.1	7.9
47.5°	4.3	4.3	4.8	5.9	6.2	6.6	7.0	7.3	7.2	7.4	8.9
45°	4.3	4.3	4.9	6.1	6.4	6.9	7.5	7.8	7.7	8.3	9.9
42.5°	4.3	4.3	5.0	6.2	6.5	7.2	7.9	8.4	8.3	9.1	10.9
40°	4.3	4.3	5.1	6.2	6.7	7.5	8.4	8.9	9.1	9.9	11.8
37.5°	4.3	4.3	5.1	6.3	7.0	7.8	8.9	9.5	10.1	11.0	12.6
35°	4.3	4.3	5.2	6.3	7.2	8.2	9.4	10.1	11.0	12.3	13.1
32.5°	4.3	4.3	5.2	6.3	7.4	8.6	9.9	10.8	12.0	13.6	14.5
30°	4.3	4.3	5.3	6.3	7.7	9.0	10.5	11.5	12.9	15.1	16.2
27.5°	4.3	4.3	5.3	6.3	7.7	9.4	11.0	12.3	13.9	16.6	18.0
25°	4.3	4.3	5.3	6.3	7.8	9.8	11.6	13.1	15.2	18.2	20.0
22.5°	4.3	4.3	5.3	6.3	7.7	10.1	12.1	13.8	16.5	19.8	23.1
20°	4.3	4.3	5.3	6.3	7.7	10.1	12.7	14.6	17.8	21.5	26.4
17.5°	4.3	4.3	5.3	6.3	7.7	10.0	12.8	15.3	19.1	23.3	29.9
15°	4.3	4.3	5.3	6.3	7.6	9.9	12.6	15.6	20.4	25.1	33.5
12.5°	4.3	4.3	5.3	6.2	7.5	9.8	12.3	15.4	21.0	26.9	37.1
10°	4.3	4.3	5.3	6.2	7.4	9.6	12.0	15.1	20.9	27.7	40.6
7.5°	4.3	4.3	5.3	6.2	7.3	9.4	11.6	14.8	20.8	28.5	43.9
5°	4.3	4.3	5.3	6.1	7.2	9.1	11.2	14.5	20.6	29.1	47.0
2.5°	4.3	4.3	5.2	6.1	7.0	8.9	10.8	14.2	20.2	29.7	50.0
0°	4.3	4.3	5.2	6.0	6.9	8.6	10.3	13.8	19.8	30.2	52.6
-2.5°	4.3	4.3	5.2	6.0	7.0	8.7	10.8	15.3	23.3	36.2	60.8
-5°	4.3	4.3	5.2	6.0	7.0	8.8	11.2	16.6	26.7	41.8	68.4
-7.5°	4.3	4.4	5.2	6.0	7.1	8.8	11.6	17.9	29.7	47.0	75.3
-10°	4.3	4.4	5.2	6.0	7.1	8.9	11.9	19.0	32.4	51.7	81.4
-12.5°	4.3	4.4	5.2	5.9	7.2	8.9	12.1	19.8	34.6	55.8	87.2
-15°	4.3	4.4	5.2	5.9	7.2	8.9	12.3	20.4	36.9	60.1	92.3
-17.5°	4.3	4.4	5.1	5.9	7.2	8.9	12.4	21.4	39.3	63.6	96.2
-20°	4.3	4.4	5.1	5.9	7.2	8.9	12.5	22.5	41.0	66.4	99.0



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 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-CV5-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	4.3	4.5	5.1	5.8	7.1	8.8	12.9	23.1	42.0	68.3	100.4
-25°	4.3	4.5	5.1	5.8	7.0	8.9	13.0	23.2	42.2	69.4	100.6
-27.5°	4.3	4.5	5.1	5.7	6.9	9.0	13.0	22.7	41.6	69.6	101.4
-30°	4.3	4.5	5.1	5.7	6.8	9.0	12.6	21.6	40.8	68.8	101.1
-32.5°	4.3	4.5	5.1	5.6	6.8	9.0	12.0	21.0	39.6	66.8	99.7
-35°	4.3	4.5	5.1	5.6	6.8	9.0	11.8	20.3	37.4	63.7	97.0
-37.5°	4.3	4.5	5.1	5.5	6.7	8.9	11.7	19.2	34.4	59.4	89.7
-40°	4.3	4.5	5.0	5.4	6.6	8.8	11.5	17.7	30.5	54.8	81.2
-42.5°	4.3	4.5	5.0	5.4	6.6	8.6	11.3	15.9	27.5	48.1	71.9
-45°	4.3	4.5	5.0	5.4	6.6	8.5	11.0	14.4	24.9	40.6	62.0
-47.5°	4.3	4.5	5.0	5.4	6.5	8.3	10.5	13.9	21.7	32.6	53.0
-50°	4.3	4.5	5.0	5.4	6.5	8.1	10.2	13.3	17.8	28.1	43.3
-52.5°	4.3	4.5	5.1	5.4	6.4	7.8	9.9	12.6	15.8	23.3	33.6
-55°	4.3	4.5	5.1	5.4	6.3	7.7	9.6	11.8	14.6	18.2	27.8
-57.5°	4.3	4.5	5.1	5.5	6.3	7.5	9.2	11.3	13.5	16.0	21.8
-60°	4.3	4.5	5.1	5.5	6.2	7.4	8.8	10.7	12.4	14.7	17.1
-62.5°	4.3	4.5	5.0	5.4	6.1	7.2	8.5	10.1	11.6	13.3	15.5
-65°	4.3	4.5	5.0	5.4	6.0	7.0	8.3	9.5	10.9	12.3	13.9
-67.5°	4.3	4.5	4.9	5.4	5.9	6.8	8.0	9.1	10.1	11.5	12.8
-70°	4.3	4.4	4.9	5.4	5.8	6.6	7.6	8.7	9.6	10.6	11.8
-72.5°	4.3	4.4	4.8	5.3	5.7	6.4	7.3	8.2	9.1	10.0	10.9
-75°	4.3	4.4	4.7	5.2	5.6	6.1	6.9	7.7	8.6	9.4	10.2
-77.5°	4.3	4.4	4.7	5.1	5.5	5.9	6.5	7.2	7.9	8.8	9.6
-80°	4.3	4.4	4.6	5.0	5.3	5.7	6.0	6.6	7.2	7.9	8.6
-82.5°	4.3	4.4	4.5	4.9	5.2	5.5	5.8	6.1	6.5	7.0	7.6
-85°	4.3	4.3	4.5	4.8	5.0	5.3	5.6	5.8	6.0	6.3	6.6
-87.5°	4.3	4.3	4.4	4.6	4.9	5.2	5.4	5.5	5.6	5.8	5.9
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	5.2	5.2	5.2	5.2	5.4	5.6	5.8	6.0	6.0	6.0	6.0
87.5°	4.1	3.9	3.6	3.4	3.2	3.0	2.8	2.6	2.6	2.6	2.6
85°	4.1	3.9	3.6	3.4	3.2	3.1	3.0	2.9	2.9	2.8	2.7
82.5°	4.1	3.9	3.6	3.4	3.4	3.4	3.4	3.4	3.2	3.0	2.8
80°	4.1	3.9	3.8	3.7	3.7	3.7	3.6	3.4	3.2	3.1	3.0
77.5°	4.2	4.1	4.1	4.2	4.1	4.0	3.9	3.9	3.8	3.8	3.6
75°	4.3	4.3	4.4	4.3	4.2	4.2	4.3	4.3	4.2	4.1	4.1
72.5°	4.4	4.6	4.5	4.4	4.3	4.3	4.3	4.3	4.8	5.6	6.3
70°	4.8	4.9	4.7	4.4	4.3	4.6	5.5	6.7	7.9	9.1	10.6
67.5°	5.1	4.9	4.7	4.6	5.3	6.4	7.8	10.9	14.7	16.4	17.0
65°	5.2	5.0	5.2	5.8	6.8	9.1	12.5	17.0	21.8	22.6	22.1
62.5°	5.2	5.4	6.0	7.2	9.1	12.1	16.5	21.5	27.0	27.0	23.6
60°	5.6	5.9	7.2	9.2	11.4	14.8	19.9	23.7	27.7	29.3	22.4
57.5°	6.0	6.9	9.0	11.4	14.1	16.6	19.3	23.0	24.6	24.6	18.2
55°	6.8	8.4	10.9	13.8	15.9	15.3	17.2	18.5	18.8	17.5	12.7
52.5°	8.2	10.0	13.1	15.7	16.1	14.5	13.5	14.1	13.3	11.3	9.9
50°	9.5	12.0	15.1	16.8	15.9	13.0	10.8	10.8	10.2	9.4	8.4
47.5°	10.9	13.8	16.8	17.6	14.6	12.4	10.4	9.7	9.2	8.8	8.1
45°	12.3	15.2	18.4	16.4	14.1	12.9	11.3	9.5	9.5	9.2	9.2
42.5°	13.5	16.2	17.5	15.4	15.1	14.1	12.8	11.1	10.4	10.8	11.0
40°	14.3	17.0	16.8	16.8	16.5	16.0	15.1	13.7	12.2	13.2	13.7
37.5°	14.8	16.9	17.3	19.2	18.6	18.5	17.8	18.0	17.0	16.4	18.5
35°	15.1	17.3	20.2	22.4	22.1	21.4	22.5	23.2	22.8	22.2	25.5
32.5°	15.5	18.2	23.9	26.2	27.1	26.7	28.1	29.4	30.8	32.5	37.8
30°	17.2	21.5	28.0	30.6	33.3	36.4	35.7	36.7	40.6	52.8	64.2
27.5°	20.5	25.8	32.1	36.3	41.1	48.3	49.9	48.1	59.8	79.3	99.7
25°	24.3	38.9	36.5	43.1	52.8	62.7	68.1	72.3	88.4	116.9	138.2
22.5°	31.7	56.1	55.7	50.6	65.9	79.3	92.3	120.9	161.5	174.5	178.7
20°	44.4	73.3	78.7	80.4	85.6	97.9	119.8	187.1	268.2	298.8	266.1
17.5°	59.3	92.1	104.1	117.1	133.1	136.8	155.4	266.7	401.0	447.0	447.1
15°	75.9	112.3	131.0	157.5	183.8	200.4	262.4	396.8	544.8	617.5	659.1
12.5°	93.7	133.5	159.1	200.6	237.0	266.1	401.4	615.7	753.3	816.8	938.1
10°	112.1	155.2	188.0	245.5	291.8	333.1	557.7	849.2	983.3	1045.5	1184.0
7.5°	130.5	175.5	216.2	291.3	347.5	400.6	724.0	1090.5	1205.2	1260.6	1373.5
5°	148.1	193.5	238.5	326.1	391.6	455.9	874.9	1330.9	1420.2	1464.9	1528.6
2.5°	164.3	210.6	259.9	357.4	426.9	490.8	940.6	1436.4	1534.5	1601.5	1655.8
0°	178.4	226.6	280.1	386.1	460.2	523.1	988.4	1523.6	1627.0	1707.1	1772.6
-2.5°	179.1	230.0	286.7	384.9	452.8	517.9	942.7	1503.9	1658.7	1778.9	1877.1
-5°	177.4	231.9	291.5	381.1	443.6	510.1	882.5	1456.6	1665.2	1793.2	1893.5
-7.5°	173.8	232.5	294.4	374.4	430.0	490.5	829.9	1360.2	1589.9	1699.5	1806.0
-10°	169.2	231.1	290.1	358.9	410.4	463.5	763.1	1248.0	1512.7	1607.0	1705.9
-12.5°	165.2	228.4	283.9	343.5	390.5	435.7	675.5	1124.7	1436.3	1518.3	1597.3
-15°	160.5	224.9	276.9	329.2	370.8	407.7	566.3	994.2	1361.5	1453.7	1514.7
-17.5°	155.4	220.6	269.3	316.6	351.7	379.9	437.0	837.3	1237.1	1377.5	1449.0
-20°	150.4	215.6	261.3	306.5	333.8	360.3	398.6	677.5	1043.0	1285.6	1376.9



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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°	145.8	210.1	253.5	296.1	324.2	347.8	378.3	521.9	838.0	1181.7	1291.7
-25°	144.0	201.6	245.8	286.1	317.1	335.8	357.5	391.3	648.8	975.4	1196.1
-27.5°	143.5	194.6	236.9	275.5	311.5	325.7	342.2	368.0	499.9	763.7	1078.2
-30°	141.3	184.5	226.9	264.4	300.7	320.0	330.4	350.7	386.1	588.8	846.8
-32.5°	134.7	173.7	215.1	252.5	287.8	316.6	324.6	341.7	367.8	425.8	635.1
-35°	126.6	163.5	202.3	239.8	274.6	306.6	324.5	334.7	352.0	379.7	473.7
-37.5°	118.9	152.6	189.1	225.8	259.8	292.2	323.5	332.4	344.1	363.8	399.6
-40°	109.9	140.9	176.1	211.0	243.9	275.9	306.6	332.7	339.8	359.7	384.7
-42.5°	99.7	129.7	162.6	195.3	226.1	257.5	288.4	317.6	345.0	358.6	378.0
-45°	88.4	117.0	148.4	177.7	206.4	237.1	267.3	297.6	333.0	364.8	377.7
-47.5°	76.2	103.1	132.5	158.7	185.5	214.0	244.2	276.2	311.8	346.9	383.3
-50°	63.7	88.5	114.1	139.0	163.6	189.6	217.4	251.2	285.1	320.3	355.5
-52.5°	52.2	73.0	95.9	118.8	141.4	164.3	191.0	221.4	254.1	287.9	319.2
-55°	40.0	58.6	77.2	98.3	119.5	139.9	163.5	191.0	219.3	250.4	278.7
-57.5°	31.1	44.0	60.1	77.3	96.9	116.6	138.1	160.1	185.3	211.4	234.8
-60°	24.1	32.4	44.0	58.6	73.6	92.3	112.5	132.6	152.9	172.0	192.0
-62.5°	17.7	24.4	31.7	41.0	54.0	67.9	85.1	103.5	122.1	138.3	152.9
-65°	16.0	17.8	23.0	29.4	35.6	47.8	60.8	73.8	89.7	104.0	117.3
-67.5°	14.2	15.8	17.5	20.1	25.8	32.2	38.8	50.2	61.6	71.4	81.3
-70°	12.9	13.9	15.3	16.8	18.3	21.3	26.9	32.7	38.5	45.4	54.1
-72.5°	11.8	12.7	13.6	14.4	15.8	17.4	19.0	20.7	24.1	28.7	33.5
-75°	10.9	11.5	12.3	13.1	13.9	14.8	15.9	17.3	18.6	19.8	20.9
-77.5°	10.1	10.5	11.1	11.7	12.3	13.0	13.8	14.6	15.5	16.4	17.4
-80°	9.1	9.5	9.8	10.2	10.7	11.2	11.7	12.3	12.7	13.1	13.7
-82.5°	7.9	8.2	8.5	8.8	9.0	9.3	9.6	9.9	10.0	10.2	10.4
-85°	6.8	6.9	7.1	7.3	7.5	7.6	7.8	8.0	7.9	7.8	7.8
-87.5°	6.0	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.5	6.3	6.2
-90°	4.1	3.9	3.6	3.4	3.2	3.0	2.8	2.6	2.6	2.6	2.6



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	6.0	6.0	6.0	6.0	6.0	8.4	10.7	13.1	15.5	21.3	27.1
87.5°	2.6	2.4	2.2	1.9	1.7	1.5	1.3	1.1	0.9	0.9	0.9
85°	2.6	2.4	2.2	1.9	1.7	1.7	1.7	1.6	1.6	1.5	1.3
82.5°	2.6	2.5	2.4	2.4	2.4	2.2	2.1	1.9	1.7	1.5	1.3
80°	2.9	2.8	2.8	2.7	2.6	2.4	2.2	1.9	1.7	1.7	1.7
77.5°	3.5	3.4	3.2	3.0	2.7	2.5	2.5	2.4	2.4	2.3	2.1
75°	4.2	4.2	4.1	3.9	3.5	3.4	3.4	3.4	3.3	3.1	2.9
72.5°	6.8	7.0	6.7	6.4	5.9	5.7	5.7	5.6	5.5	5.4	5.4
70°	11.4	11.6	11.2	10.3	9.1	8.2	7.8	7.4	6.9	6.9	7.4
67.5°	16.5	15.3	14.1	12.7	10.9	9.5	8.8	8.1	7.3	6.9	6.7
65°	20.0	15.8	13.5	11.9	10.9	9.8	8.7	7.7	6.8	6.1	5.8
62.5°	19.1	13.5	11.1	9.9	9.1	8.3	7.2	6.2	5.4	4.8	4.8
60°	16.4	11.3	8.7	7.8	6.9	6.0	5.5	5.0	4.6	4.4	4.6
57.5°	12.8	8.9	6.8	6.5	6.0	5.5	5.1	4.9	4.6	4.3	4.6
55°	9.4	7.8	6.9	6.7	6.4	6.2	5.8	5.4	5.1	4.9	5.0
52.5°	8.1	7.6	7.6	7.5	7.0	6.5	6.0	5.9	5.8	5.7	5.8
50°	7.9	7.8	7.9	7.7	7.2	7.0	6.8	6.8	6.7	6.6	6.6
47.5°	8.1	8.2	8.2	7.8	7.7	7.8	7.8	7.7	7.8	7.9	8.1
45°	8.8	9.1	9.2	9.4	9.1	9.4	9.4	9.3	10.7	10.9	10.2
42.5°	10.7	11.9	12.8	12.5	11.4	13.7	17.0	18.5	17.0	14.8	13.3
40°	15.3	16.8	17.4	18.5	23.1	26.5	23.4	20.2	18.8	19.9	20.8
37.5°	21.5	23.4	28.8	35.8	33.2	27.1	27.7	28.0	27.4	29.2	29.4
35°	31.4	40.3	46.9	44.7	41.6	40.9	42.4	42.9	38.8	40.7	41.3
32.5°	50.3	61.1	61.6	58.8	60.3	60.6	64.9	62.0	58.4	60.2	65.0
30°	72.5	83.2	87.1	82.1	73.1	78.2	82.5	81.2	83.7	91.1	98.9
27.5°	107.4	114.3	120.8	110.8	92.7	100.6	103.7	100.6	117.8	127.0	145.3
25°	149.0	156.9	161.9	153.6	141.1	134.6	144.4	151.7	172.7	193.1	221.8
22.5°	194.3	215.4	221.4	199.6	199.6	199.5	203.3	228.2	256.4	301.5	377.2
20°	247.1	289.0	322.5	300.3	271.9	291.1	314.8	345.4	425.8	630.5	863.1
17.5°	434.3	404.9	466.5	468.5	427.7	472.5	557.7	667.5	1006.9	2050.7	2734.9
15°	739.0	708.0	669.6	671.7	712.0	799.8	974.4	1582.1	3081.3	5308.9	7611.1
12.5°	1050.0	1003.6	947.1	932.2	1020.3	1197.1	2020.5	4521.3	8051.4	11895.6	21757.0
10°	1295.4	1270.7	1218.6	1257.5	1404.7	1924.1	3607.9	7945.3	15229.8	27965.7	43680.6
7.5°	1439.4	1430.0	1444.0	1558.1	1798.1	3165.6	6867.6	13315.1	25318.9	44618.7	72930.5
5°	1584.0	1591.9	1634.4	1791.4	2098.5	4026.6	9692.7	18503.0	36660.0	65029.6	108872.3
2.5°	1744.2	1751.4	1808.6	2006.3	2357.7	4161.1	10365.1	21806.9	46481.7	83658.3	141774.9
0°	1928.6	1887.2	1904.5	2084.6	2447.3	4853.3	11961.8	23913.4	51443.4	91396.4	150672.2
-2.5°	1994.1	1905.6	1889.4	2041.5	2359.5	4301.0	10685.4	22237.1	47249.7	83730.5	140497.0
-5°	1949.6	1828.7	1780.4	1904.7	2206.6	3771.3	8984.7	20234.2	41950.4	71627.4	119051.7
-7.5°	1839.2	1723.3	1652.0	1745.6	2009.2	3107.6	6882.2	15322.7	30535.1	52996.5	84571.6
-10°	1744.4	1633.3	1524.6	1554.6	1737.1	2313.1	4284.5	10036.6	20174.1	35774.1	53768.3
-12.5°	1662.3	1569.2	1406.5	1357.0	1459.3	1729.7	2990.3	6840.9	12904.3	20293.4	32907.0
-15°	1577.5	1501.1	1338.6	1260.4	1296.9	1428.5	1770.1	3285.8	7065.8	12027.3	17461.1
-17.5°	1483.3	1430.9	1333.2	1217.7	1168.2	1221.1	1384.3	1852.3	3140.0	6232.2	9620.3
-20°	1419.5	1390.4	1318.7	1217.2	1153.7	1129.2	1185.8	1329.1	1645.4	2830.5	4290.2



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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°	1339.6	1327.5	1279.1	1250.1	1203.7	1151.1	1101.5	1145.9	1250.9	1412.4	1916.8
-25°	1264.0	1267.0	1270.1	1308.4	1300.9	1227.6	1133.4	1066.0	1101.3	1152.0	1254.1
-27.5°	1180.4	1221.9	1286.4	1358.3	1391.7	1329.6	1218.7	1117.7	1087.6	1058.0	1101.2
-30°	1106.9	1191.5	1260.5	1348.4	1406.0	1387.5	1330.3	1262.2	1188.4	1137.1	1120.3
-32.5°	917.3	1151.7	1215.6	1286.2	1372.3	1399.6	1393.1	1367.0	1335.4	1299.3	1261.8
-35°	712.9	973.2	1187.3	1227.9	1284.2	1365.3	1429.1	1433.6	1429.5	1416.3	1406.2
-37.5°	503.5	751.2	976.8	1157.8	1225.3	1279.4	1377.2	1452.0	1494.5	1491.1	1492.1
-40°	418.1	486.3	713.3	922.6	1077.7	1222.3	1300.3	1398.2	1476.0	1507.7	1531.8
-42.5°	403.3	429.7	456.9	613.9	813.6	988.6	1123.2	1247.4	1357.2	1435.5	1497.7
-45°	392.9	410.8	431.4	457.5	485.6	641.9	815.8	977.5	1083.1	1188.8	1299.2
-47.5°	392.5	396.9	411.5	429.8	447.7	473.1	502.1	541.6	658.5	764.6	876.8
-50°	380.8	398.5	403.4	409.1	420.5	434.4	448.1	462.3	475.7	484.0	495.4
-52.5°	346.2	369.1	390.6	407.3	411.7	415.9	419.9	429.1	438.0	445.4	453.8
-55°	304.4	328.7	352.3	371.6	388.9	405.3	417.5	419.5	422.2	425.4	430.6
-57.5°	259.1	282.7	305.1	325.3	344.3	361.9	374.6	384.1	393.0	401.4	412.3
-60°	212.5	233.4	253.8	273.3	292.1	309.9	321.6	331.2	339.6	347.8	359.1
-62.5°	166.9	182.8	201.3	219.0	235.2	250.6	262.7	273.0	281.5	290.2	300.6
-65°	129.8	141.7	155.3	168.2	180.2	194.4	207.5	218.3	226.9	235.4	244.7
-67.5°	92.6	103.7	116.5	128.4	139.6	150.4	161.4	171.7	181.3	191.0	200.6
-70°	61.9	69.7	78.9	89.1	99.6	109.4	118.8	127.8	136.4	145.1	153.3
-72.5°	38.4	43.2	48.4	55.1	62.2	69.0	75.7	82.4	89.0	96.8	104.5
-75°	21.9	23.8	27.8	31.5	35.1	38.4	41.3	43.7	45.8	50.3	55.3
-77.5°	18.4	19.3	20.4	21.4	22.4	23.8	25.4	27.0	28.7	32.4	36.4
-80°	14.3	14.9	15.7	16.4	17.2	18.2	19.3	20.4	21.4	24.1	26.9
-82.5°	10.6	10.9	11.2	11.4	11.7	12.5	13.4	14.2	15.0	17.3	19.5
-85°	7.7	7.8	7.9	8.0	8.1	8.8	9.6	10.3	11.0	13.2	15.4
-87.5°	6.0	6.0	6.0	6.0	6.0	6.8	7.5	8.2	8.8	11.2	13.6
-90°	2.6	2.4	2.2	1.9	1.7	1.5	1.3	1.1	0.9	0.9	0.9



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	33.0	38.8	32.7	26.7	32.7	38.8	33.0	27.1	21.3	15.5	13.1
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
85°	1.1	0.9	0.9	0.9	0.9	0.9	1.1	1.3	1.5	1.6	1.6
82.5°	1.1	0.9	1.3	1.7	1.3	0.9	1.1	1.3	1.5	1.7	1.9
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9
77.5°	1.9	1.7	1.7	1.7	1.7	1.7	1.9	2.1	2.3	2.4	2.4
75°	2.8	2.6	2.6	2.6	2.6	2.6	2.8	2.9	3.1	3.3	3.4
72.5°	5.3	5.1	5.2	5.2	5.2	5.1	5.3	5.4	5.4	5.5	5.6
70°	7.9	8.4	8.6	8.6	8.6	8.4	7.9	7.4	6.9	6.9	7.4
67.5°	6.4	6.1	6.0	6.0	6.0	6.1	6.4	6.7	6.9	7.3	8.1
65°	5.5	5.3	5.2	5.2	5.2	5.3	5.5	5.8	6.1	6.8	7.7
62.5°	4.9	5.1	5.2	5.2	5.2	5.1	4.9	4.8	4.8	5.4	6.2
60°	4.9	5.1	5.2	5.2	5.2	5.1	4.9	4.6	4.4	4.6	5.0
57.5°	4.9	5.1	5.2	5.2	5.2	5.1	4.9	4.6	4.3	4.6	4.9
55°	5.1	5.2	5.5	6.0	5.5	5.2	5.1	5.0	4.9	5.1	5.4
52.5°	5.9	5.9	6.0	6.0	6.0	5.9	5.9	5.8	5.7	5.8	5.9
50°	6.8	6.8	6.9	6.9	6.9	6.8	6.8	6.6	6.6	6.7	6.8
47.5°	8.3	8.5	8.6	8.6	8.6	8.5	8.3	8.1	7.9	7.8	7.7
45°	10.4	10.3	10.3	10.3	10.3	10.3	10.4	10.2	10.9	10.7	9.3
42.5°	13.8	14.2	14.5	14.6	14.5	14.2	13.8	13.3	14.8	17.0	18.5
40°	21.9	22.2	22.0	21.5	22.0	22.2	21.9	20.8	19.9	18.8	20.2
37.5°	29.8	30.4	30.8	31.0	30.8	30.4	29.8	29.4	29.2	27.4	28.0
35°	41.8	42.2	42.0	43.1	42.0	42.2	41.8	41.3	40.7	38.8	42.9
32.5°	68.1	68.5	66.3	67.2	66.3	68.5	68.1	65.0	60.2	58.4	62.0
30°	104.3	109.1	112.0	115.5	112.0	109.1	104.3	98.9	91.1	83.7	81.2
27.5°	158.8	170.5	178.2	182.7	178.2	170.5	158.8	145.3	127.0	117.8	100.6
25°	247.9	265.8	275.4	282.7	275.4	265.8	247.9	221.8	193.1	172.7	151.7
22.5°	481.6	549.8	587.8	623.9	587.8	549.8	481.6	377.2	301.5	256.4	228.2
20°	1235.0	1314.6	1464.5	1557.2	1464.5	1314.6	1235.0	863.1	630.5	425.8	345.4
17.5°	4160.4	5304.0	5517.6	5678.9	5517.6	5304.0	4160.4	2734.9	2050.7	1006.9	667.5
15°	12389.6	15784.1	16697.7	17475.3	16697.7	15784.1	12389.6	7611.1	5308.9	3081.3	1582.1
12.5°	29913.8	39256.4	44337.9	48198.6	44337.9	39256.4	29913.8	21757.0	11895.6	8051.4	4521.3
10°	62673.8	80964.4	94847.1	102886.9	94847.1	80964.4	62673.8	43680.6	27965.7	15229.8	7945.3
7.5°	106730.9	137732.1	155854.0	165078.4	155854.0	137732.1	106730.9	72930.5	44618.7	25318.9	13315.1
5°	160980.2	200999.5	226290.8	240197.8	226290.8	200999.5	160980.2	108872.3	65029.6	36660.0	18503.0
2.5°	201079.6	252420.5	290331.4	308163.9	290331.4	252420.5	201079.6	141774.9	83658.3	46481.7	21806.9
0°	215598.9	269463.4	312801.3	338763.9	312801.3	269463.4	215598.9	150672.2	91396.4	51443.4	23913.4
-2.5°	201738.4	252305.5	286059.8	301767.1	286059.8	252305.5	201738.4	140497.0	83730.5	47249.7	22237.1
-5°	171549.8	215268.7	239525.3	249793.3	239525.3	215268.7	171549.8	119051.7	71627.4	41950.4	20234.2
-7.5°	121711.6	155060.6	172109.2	182223.2	172109.2	155060.6	121711.6	84571.6	52996.5	30535.1	15322.7
-10°	76629.2	95376.7	111684.8	119061.8	111684.8	95376.7	76629.2	53768.3	35774.1	20174.1	10036.6
-12.5°	44502.2	56371.5	65913.6	69967.0	65913.6	56371.5	44502.2	32907.0	20293.4	12904.3	6840.9
-15°	24593.2	31079.4	35472.6	37191.1	35472.6	31079.4	24593.2	17461.1	12027.3	7065.8	3285.8
-17.5°	13675.7	16823.2	18071.8	20074.3	18071.8	16823.2	13675.7	9620.3	6232.2	3140.0	1852.3
-20°	6699.9	8331.9	8855.2	10267.7	8855.2	8331.9	6699.9	4290.2	2830.5	1645.4	1329.1



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	2602.5	2987.7	3073.5	3743.4	3073.5	2987.7	2602.5	1916.8	1412.4	1250.9	1145.9
-25°	1351.5	1416.5	1446.6	1525.3	1446.6	1416.5	1351.5	1254.1	1152.0	1101.3	1066.0
-27.5°	1136.1	1167.6	1192.7	1230.6	1192.7	1167.6	1136.1	1101.2	1058.0	1087.6	1117.7
-30°	1107.3	1101.8	1102.5	1106.5	1102.5	1101.8	1107.3	1120.3	1137.1	1188.4	1262.2
-32.5°	1232.0	1212.9	1203.4	1167.7	1203.4	1212.9	1232.0	1261.8	1299.3	1335.4	1367.0
-35°	1400.1	1398.5	1399.7	1383.1	1399.7	1398.5	1400.1	1406.2	1416.3	1429.5	1433.6
-37.5°	1492.5	1495.2	1498.5	1493.4	1498.5	1495.2	1492.5	1492.1	1491.1	1494.5	1452.0
-40°	1540.2	1548.0	1553.4	1552.0	1553.4	1548.0	1540.2	1531.8	1507.7	1476.0	1398.2
-42.5°	1528.7	1548.0	1557.5	1560.6	1557.5	1548.0	1528.7	1497.7	1435.5	1357.2	1247.4
-45°	1400.2	1478.7	1526.0	1539.1	1526.0	1478.7	1400.2	1299.2	1188.8	1083.1	977.5
-47.5°	1003.0	1119.1	1228.0	1323.6	1228.0	1119.1	1003.0	876.8	764.6	658.5	541.6
-50°	509.6	522.7	549.5	588.6	549.5	522.7	509.6	495.4	484.0	475.7	462.3
-52.5°	462.2	469.8	477.2	484.3	477.2	469.8	462.2	453.8	445.4	438.0	429.1
-55°	435.5	440.1	443.7	446.4	443.7	440.1	435.5	430.6	425.4	422.2	419.5
-57.5°	421.6	429.3	435.9	441.2	435.9	429.3	421.6	412.3	401.4	393.0	384.1
-60°	369.0	377.5	385.4	392.1	385.4	377.5	369.0	359.1	347.8	339.6	331.2
-62.5°	309.5	317.0	324.8	331.8	324.8	317.0	309.5	300.6	290.2	281.5	273.0
-65°	252.9	260.1	266.6	272.3	266.6	260.1	252.9	244.7	235.4	226.9	218.3
-67.5°	209.6	217.9	226.0	233.5	226.0	217.9	209.6	200.6	191.0	181.3	171.7
-70°	160.9	167.6	173.4	178.4	173.4	167.6	160.9	153.3	145.1	136.4	127.8
-72.5°	111.5	117.9	125.1	131.8	125.1	117.9	111.5	104.5	96.8	89.0	82.4
-75°	60.1	64.7	69.1	73.2	69.1	64.7	60.1	55.3	50.3	45.8	43.7
-77.5°	40.4	44.4	47.3	50.0	47.3	44.4	40.4	36.4	32.4	28.7	27.0
-80°	29.7	32.5	34.8	37.1	34.8	32.5	29.7	26.9	24.1	21.4	20.4
-82.5°	21.8	24.0	25.8	27.6	25.8	24.0	21.8	19.5	17.3	15.0	14.2
-85°	17.6	19.8	21.5	23.3	21.5	19.8	17.6	15.4	13.2	11.0	10.3
-87.5°	15.9	18.2	19.4	20.7	19.4	18.2	15.9	13.6	11.2	8.8	8.2
-90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	10.7	8.4	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
87.5°	1.3	1.5	1.7	1.9	2.2	2.4	2.6	2.6	2.6	2.6	2.6
85°	1.7	1.7	1.7	1.9	2.2	2.4	2.6	2.7	2.8	2.9	2.9
82.5°	2.1	2.2	2.4	2.4	2.4	2.5	2.6	2.8	3.0	3.2	3.4
80°	2.2	2.4	2.6	2.7	2.8	2.8	2.9	3.0	3.1	3.2	3.4
77.5°	2.5	2.5	2.7	3.0	3.2	3.4	3.5	3.6	3.8	3.8	3.9
75°	3.4	3.4	3.5	3.9	4.1	4.2	4.2	4.1	4.1	4.2	4.3
72.5°	5.7	5.7	5.9	6.4	6.7	7.0	6.8	6.3	5.6	4.8	4.3
70°	7.8	8.2	9.1	10.3	11.2	11.6	11.4	10.6	9.1	7.9	6.7
67.5°	8.8	9.5	10.9	12.7	14.1	15.3	16.5	17.0	16.4	14.7	10.9
65°	8.7	9.8	10.9	11.9	13.5	15.8	20.0	22.1	22.6	21.8	17.0
62.5°	7.2	8.3	9.1	9.9	11.1	13.5	19.1	23.6	27.0	27.0	21.5
60°	5.5	6.0	6.9	7.8	8.7	11.3	16.4	22.4	29.3	27.7	23.7
57.5°	5.1	5.5	6.0	6.5	6.8	8.9	12.8	18.2	24.6	24.6	23.0
55°	5.8	6.2	6.4	6.7	6.9	7.8	9.4	12.7	17.5	18.8	18.5
52.5°	6.0	6.5	7.0	7.5	7.6	7.6	8.1	9.9	11.3	13.3	14.1
50°	6.8	7.0	7.2	7.7	7.9	7.8	7.9	8.4	9.4	10.2	10.8
47.5°	7.8	7.8	7.7	7.8	8.2	8.2	8.1	8.1	8.8	9.2	9.7
45°	9.4	9.4	9.1	9.4	9.2	9.1	8.8	9.2	9.2	9.5	9.5
42.5°	17.0	13.7	11.4	12.5	12.8	11.9	10.7	11.0	10.8	10.4	11.1
40°	23.4	26.5	23.1	18.5	17.4	16.8	15.3	13.7	13.2	12.2	13.7
37.5°	27.7	27.1	33.2	35.8	28.8	23.4	21.5	18.5	16.4	17.0	18.0
35°	42.4	40.9	41.6	44.7	46.9	40.3	31.4	25.5	22.2	22.8	23.2
32.5°	64.9	60.6	60.3	58.8	61.6	61.1	50.3	37.8	32.5	30.8	29.4
30°	82.5	78.2	73.1	82.1	87.1	83.2	72.5	64.2	52.8	40.6	36.7
27.5°	103.7	100.6	92.7	110.8	120.8	114.3	107.4	99.7	79.3	59.8	48.1
25°	144.4	134.6	141.1	153.6	161.9	156.9	149.0	138.2	116.9	88.4	72.3
22.5°	203.3	199.5	199.6	199.6	221.4	215.4	194.3	178.7	174.5	161.5	120.9
20°	314.8	291.1	271.9	300.3	322.5	289.0	247.1	266.1	298.8	268.2	187.1
17.5°	557.7	472.5	427.7	468.5	466.5	404.9	434.3	447.1	447.0	401.0	266.7
15°	974.4	799.8	712.0	671.7	669.6	708.0	739.0	659.1	617.5	544.8	396.8
12.5°	2020.5	1197.1	1020.3	932.2	947.1	1003.6	1050.0	938.1	816.8	753.3	615.7
10°	3607.9	1924.1	1404.7	1257.5	1218.6	1270.7	1295.4	1184.0	1045.5	983.3	849.2
7.5°	6867.6	3165.6	1798.1	1558.1	1444.0	1430.0	1439.4	1373.5	1260.6	1205.2	1090.5
5°	9692.7	4026.6	2098.5	1791.4	1634.4	1591.9	1584.0	1528.6	1464.9	1420.2	1330.9
2.5°	10365.1	4161.1	2357.7	2006.3	1808.6	1751.4	1744.2	1655.8	1601.5	1534.5	1436.4
0°	11961.8	4853.3	2447.3	2084.6	1904.5	1887.2	1928.6	1772.6	1707.1	1627.0	1523.6
-2.5°	10685.4	4301.0	2359.5	2041.5	1889.4	1905.6	1994.1	1877.1	1778.9	1658.7	1503.9
-5°	8984.7	3771.3	2206.6	1904.7	1780.4	1828.7	1949.6	1893.5	1793.2	1665.2	1456.6
-7.5°	6882.2	3107.6	2009.2	1745.6	1652.0	1723.3	1839.2	1806.0	1699.5	1589.9	1360.2
-10°	4284.5	2313.1	1737.1	1554.6	1524.6	1633.3	1744.4	1705.9	1607.0	1512.7	1248.0
-12.5°	2990.3	1729.7	1459.3	1357.0	1406.5	1569.2	1662.3	1597.3	1518.3	1436.3	1124.7
-15°	1770.1	1428.5	1296.9	1260.4	1338.6	1501.1	1577.5	1514.7	1453.7	1361.5	994.2
-17.5°	1384.3	1221.1	1168.2	1217.7	1333.2	1430.9	1483.3	1449.0	1377.5	1237.1	837.3
-20°	1185.8	1129.2	1153.7	1217.2	1318.7	1390.4	1419.5	1376.9	1285.6	1043.0	677.5





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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°	1101.5	1151.1	1203.7	1250.1	1279.1	1327.5	1339.6	1291.7	1181.7	838.0	521.9
-25°	1133.4	1227.6	1300.9	1308.4	1270.1	1267.0	1264.0	1196.1	975.4	648.8	391.3
-27.5°	1218.7	1329.6	1391.7	1358.3	1286.4	1221.9	1180.4	1078.2	763.7	499.9	368.0
-30°	1330.3	1387.5	1406.0	1348.4	1260.5	1191.5	1106.9	846.8	588.8	386.1	350.7
-32.5°	1393.1	1399.6	1372.3	1286.2	1215.6	1151.7	917.3	635.1	425.8	367.8	341.7
-35°	1429.1	1365.3	1284.2	1227.9	1187.3	973.2	712.9	473.7	379.7	352.0	334.7
-37.5°	1377.2	1279.4	1225.3	1157.8	976.8	751.2	503.5	399.6	363.8	344.1	332.4
-40°	1300.3	1222.3	1077.7	922.6	713.3	486.3	418.1	384.7	359.7	339.8	332.7
-42.5°	1123.2	988.6	813.6	613.9	456.9	429.7	403.3	378.0	358.6	345.0	317.6
-45°	815.8	641.9	485.6	457.5	431.4	410.8	392.9	377.7	364.8	333.0	297.6
-47.5°	502.1	473.1	447.7	429.8	411.5	396.9	392.5	383.3	346.9	311.8	276.2
-50°	448.1	434.4	420.5	409.1	403.4	398.5	380.8	355.5	320.3	285.1	251.2
-52.5°	419.9	415.9	411.7	407.3	390.6	369.1	346.2	319.2	287.9	254.1	221.4
-55°	417.5	405.3	388.9	371.6	352.3	328.7	304.4	278.7	250.4	219.3	191.0
-57.5°	374.6	361.9	344.3	325.3	305.1	282.7	259.1	234.8	211.4	185.3	160.1
-60°	321.6	309.9	292.1	273.3	253.8	233.4	212.5	192.0	172.0	152.9	132.6
-62.5°	262.7	250.6	235.2	219.0	201.3	182.8	166.9	152.9	138.3	122.1	103.5
-65°	207.5	194.4	180.2	168.2	155.3	141.7	129.8	117.3	104.0	89.7	73.8
-67.5°	161.4	150.4	139.6	128.4	116.5	103.7	92.6	81.3	71.4	61.6	50.2
-70°	118.8	109.4	99.6	89.1	78.9	69.7	61.9	54.1	45.4	38.5	32.7
-72.5°	75.7	69.0	62.2	55.1	48.4	43.2	38.4	33.5	28.7	24.1	20.7
-75°	41.3	38.4	35.1	31.5	27.8	23.8	21.9	20.9	19.8	18.6	17.3
-77.5°	25.4	23.8	22.4	21.4	20.4	19.3	18.4	17.4	16.4	15.5	14.6
-80°	19.3	18.2	17.2	16.4	15.7	14.9	14.3	13.7	13.1	12.7	12.3
-82.5°	13.4	12.5	11.7	11.4	11.2	10.9	10.6	10.4	10.2	10.0	9.9
-85°	9.6	8.8	8.1	8.0	7.9	7.8	7.7	7.8	7.8	7.9	8.0
-87.5°	7.5	6.8	6.0	6.0	6.0	6.0	6.0	6.2	6.3	6.5	6.6
-90°	1.3	1.5	1.7	1.9	2.2	2.4	2.6	2.6	2.6	2.6	2.6





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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°	5.8	5.6	5.4	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
87.5°	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.3	4.3	4.3	4.3
85°	3.0	3.1	3.2	3.4	3.6	3.9	4.1	4.3	4.3	4.3	4.3
82.5°	3.4	3.4	3.4	3.4	3.6	3.9	4.1	4.3	4.3	4.3	4.3
80°	3.6	3.7	3.7	3.7	3.8	3.9	4.1	4.3	4.3	4.3	4.3
77.5°	3.9	4.0	4.1	4.2	4.1	4.1	4.2	4.3	4.3	4.3	4.3
75°	4.3	4.2	4.2	4.3	4.4	4.3	4.3	4.3	4.4	4.3	4.3
72.5°	4.3	4.3	4.3	4.4	4.5	4.6	4.4	4.4	4.5	4.5	4.4
70°	5.5	4.6	4.3	4.4	4.7	4.9	4.8	4.7	4.6	4.7	4.6
67.5°	7.8	6.4	5.3	4.6	4.7	4.9	5.1	5.1	5.0	4.9	4.8
65°	12.5	9.1	6.8	5.8	5.2	5.0	5.2	5.4	5.3	5.2	5.0
62.5°	16.5	12.1	9.1	7.2	6.0	5.4	5.2	5.5	5.6	5.5	5.3
60°	19.9	14.8	11.4	9.2	7.2	5.9	5.6	5.7	5.8	5.7	5.5
57.5°	19.3	16.6	14.1	11.4	9.0	6.9	6.0	6.0	6.0	6.0	5.8
55°	17.2	15.3	15.9	13.8	10.9	8.4	6.8	6.4	6.3	6.3	6.1
52.5°	13.5	14.5	16.1	15.7	13.1	10.0	8.2	6.8	6.7	6.6	6.5
50°	10.8	13.0	15.9	16.8	15.1	12.0	9.5	7.9	7.1	6.9	6.9
47.5°	10.4	12.4	14.6	17.6	16.8	13.8	10.9	8.9	7.4	7.2	7.3
45°	11.3	12.9	14.1	16.4	18.4	15.2	12.3	9.9	8.3	7.7	7.8
42.5°	12.8	14.1	15.1	15.4	17.5	16.2	13.5	10.9	9.1	8.3	8.4
40°	15.1	16.0	16.5	16.8	16.8	17.0	14.3	11.8	9.9	9.1	8.9
37.5°	17.8	18.5	18.6	19.2	17.3	16.9	14.8	12.6	11.0	10.1	9.5
35°	22.5	21.4	22.1	22.4	20.2	17.3	15.1	13.1	12.3	11.0	10.1
32.5°	28.1	26.7	27.1	26.2	23.9	18.2	15.5	14.5	13.6	12.0	10.8
30°	35.7	36.4	33.3	30.6	28.0	21.5	17.2	16.2	15.1	12.9	11.5
27.5°	49.9	48.3	41.1	36.3	32.1	25.8	20.5	18.0	16.6	13.9	12.3
25°	68.1	62.7	52.8	43.1	36.5	38.9	24.3	20.0	18.2	15.2	13.1
22.5°	92.3	79.3	65.9	50.6	55.7	56.1	31.7	23.1	19.8	16.5	13.8
20°	119.8	97.9	85.6	80.4	78.7	73.3	44.4	26.4	21.5	17.8	14.6
17.5°	155.4	136.8	133.1	117.1	104.1	92.1	59.3	29.9	23.3	19.1	15.3
15°	262.4	200.4	183.8	157.5	131.0	112.3	75.9	33.5	25.1	20.4	15.6
12.5°	401.4	266.1	237.0	200.6	159.1	133.5	93.7	37.1	26.9	21.0	15.4
10°	557.7	333.1	291.8	245.5	188.0	155.2	112.1	40.6	27.7	20.9	15.1
7.5°	724.0	400.6	347.5	291.3	216.2	175.5	130.5	43.9	28.5	20.8	14.8
5°	874.9	455.9	391.6	326.1	238.5	193.5	148.1	47.0	29.1	20.6	14.5
2.5°	940.6	490.8	426.9	357.4	259.9	210.6	164.3	50.0	29.7	20.2	14.2
0°	988.4	523.1	460.2	386.1	280.1	226.6	178.4	52.6	30.2	19.8	13.8
-2.5°	942.7	517.9	452.8	384.9	286.7	230.0	179.1	60.8	36.2	23.3	15.3
-5°	882.5	510.1	443.6	381.1	291.5	231.9	177.4	68.4	41.8	26.7	16.6
-7.5°	829.9	490.5	430.0	374.4	294.4	232.5	173.8	75.3	47.0	29.7	17.9
-10°	763.1	463.5	410.4	358.9	290.1	231.1	169.2	81.4	51.7	32.4	19.0
-12.5°	675.5	435.7	390.5	343.5	283.9	228.4	165.2	87.2	55.8	34.6	19.8
-15°	566.3	407.7	370.8	329.2	276.9	224.9	160.5	92.3	60.1	36.9	20.4
-17.5°	437.0	379.9	351.7	316.6	269.3	220.6	155.4	96.2	63.6	39.3	21.4
-20°	398.6	360.3	333.8	306.5	261.3	215.6	150.4	99.0	66.4	41.0	22.5



REPORT NUMBER: P701437 (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°	378.3	347.8	324.2	296.1	253.5	210.1	145.8	100.4	68.3	42.0	23.1
-25°	357.5	335.8	317.1	286.1	245.8	201.6	144.0	100.6	69.4	42.2	23.2
-27.5°	342.2	325.7	311.5	275.5	236.9	194.6	143.5	101.4	69.6	41.6	22.7
-30°	330.4	320.0	300.7	264.4	226.9	184.5	141.3	101.1	68.8	40.8	21.6
-32.5°	324.6	316.6	287.8	252.5	215.1	173.7	134.7	99.7	66.8	39.6	21.0
-35°	324.5	306.6	274.6	239.8	202.3	163.5	126.6	97.0	63.7	37.4	20.3
-37.5°	323.5	292.2	259.8	225.8	189.1	152.6	118.9	89.7	59.4	34.4	19.2
-40°	306.6	275.9	243.9	211.0	176.1	140.9	109.9	81.2	54.8	30.5	17.7
-42.5°	288.4	257.5	226.1	195.3	162.6	129.7	99.7	71.9	48.1	27.5	15.9
-45°	267.3	237.1	206.4	177.7	148.4	117.0	88.4	62.0	40.6	24.9	14.4
-47.5°	244.2	214.0	185.5	158.7	132.5	103.1	76.2	53.0	32.6	21.7	13.9
-50°	217.4	189.6	163.6	139.0	114.1	88.5	63.7	43.3	28.1	17.8	13.3
-52.5°	191.0	164.3	141.4	118.8	95.9	73.0	52.2	33.6	23.3	15.8	12.6
-55°	163.5	139.9	119.5	98.3	77.2	58.6	40.0	27.8	18.2	14.6	11.8
-57.5°	138.1	116.6	96.9	77.3	60.1	44.0	31.1	21.8	16.0	13.5	11.3
-60°	112.5	92.3	73.6	58.6	44.0	32.4	24.1	17.1	14.7	12.4	10.7
-62.5°	85.1	67.9	54.0	41.0	31.7	24.4	17.7	15.5	13.3	11.6	10.1
-65°	60.8	47.8	35.6	29.4	23.0	17.8	16.0	13.9	12.3	10.9	9.5
-67.5°	38.8	32.2	25.8	20.1	17.5	15.8	14.2	12.8	11.5	10.1	9.1
-70°	26.9	21.3	18.3	16.8	15.3	13.9	12.9	11.8	10.6	9.6	8.7
-72.5°	19.0	17.4	15.8	14.4	13.6	12.7	11.8	10.9	10.0	9.1	8.2
-75°	15.9	14.8	13.9	13.1	12.3	11.5	10.9	10.2	9.4	8.6	7.7
-77.5°	13.8	13.0	12.3	11.7	11.1	10.5	10.1	9.6	8.8	7.9	7.2
-80°	11.7	11.2	10.7	10.2	9.8	9.5	9.1	8.6	7.9	7.2	6.6
-82.5°	9.6	9.3	9.0	8.8	8.5	8.2	7.9	7.6	7.0	6.5	6.1
-85°	7.8	7.6	7.5	7.3	7.1	6.9	6.8	6.6	6.3	6.0	5.8
-87.5°	6.5	6.4	6.3	6.2	6.1	6.0	6.0	5.9	5.8	5.6	5.5
-90°	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.3	4.3	4.3	4.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	5.2	5.0	4.8	4.5	4.3	4.3	4.3
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
85°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3
75°	4.3	4.4	4.3	4.3	4.3	4.3	4.3
72.5°	4.4	4.6	4.5	4.3	4.3	4.3	4.3
70°	4.5	4.7	4.6	4.3	4.3	4.3	4.3
67.5°	4.7	4.8	4.8	4.5	4.3	4.3	4.3
65°	5.0	5.0	5.0	4.7	4.3	4.3	4.3
62.5°	5.2	5.2	5.2	4.8	4.3	4.3	4.3
60°	5.5	5.4	5.4	5.0	4.3	4.3	4.3
57.5°	5.8	5.7	5.5	5.2	4.4	4.3	4.3
55°	6.1	5.9	5.7	5.4	4.5	4.3	4.3
52.5°	6.4	6.1	5.9	5.6	4.6	4.3	4.3
50°	6.7	6.4	6.0	5.8	4.7	4.3	4.3
47.5°	7.0	6.6	6.2	5.9	4.8	4.3	4.3
45°	7.5	6.9	6.4	6.1	4.9	4.3	4.3
42.5°	7.9	7.2	6.5	6.2	5.0	4.3	4.3
40°	8.4	7.5	6.7	6.2	5.1	4.3	4.3
37.5°	8.9	7.8	7.0	6.3	5.1	4.3	4.3
35°	9.4	8.2	7.2	6.3	5.2	4.3	4.3
32.5°	9.9	8.6	7.4	6.3	5.2	4.3	4.3
30°	10.5	9.0	7.7	6.3	5.3	4.3	4.3
27.5°	11.0	9.4	7.7	6.3	5.3	4.3	4.3
25°	11.6	9.8	7.8	6.3	5.3	4.3	4.3
22.5°	12.1	10.1	7.7	6.3	5.3	4.3	4.3
20°	12.7	10.1	7.7	6.3	5.3	4.3	4.3
17.5°	12.8	10.0	7.7	6.3	5.3	4.3	4.3
15°	12.6	9.9	7.6	6.3	5.3	4.3	4.3
12.5°	12.3	9.8	7.5	6.2	5.3	4.3	4.3
10°	12.0	9.6	7.4	6.2	5.3	4.3	4.3
7.5°	11.6	9.4	7.3	6.2	5.3	4.3	4.3
5°	11.2	9.1	7.2	6.1	5.3	4.3	4.3
2.5°	10.8	8.9	7.0	6.1	5.2	4.3	4.3
0°	10.3	8.6	6.9	6.0	5.2	4.3	4.3
-2.5°	10.8	8.7	7.0	6.0	5.2	4.3	4.3
-5°	11.2	8.8	7.0	6.0	5.2	4.3	4.3
-7.5°	11.6	8.8	7.1	6.0	5.2	4.4	4.3
-10°	11.9	8.9	7.1	6.0	5.2	4.4	4.3
-12.5°	12.1	8.9	7.2	5.9	5.2	4.4	4.3
-15°	12.3	8.9	7.2	5.9	5.2	4.4	4.3
-17.5°	12.4	8.9	7.2	5.9	5.1	4.4	4.3
-20°	12.5	8.9	7.2	5.9	5.1	4.4	4.3



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 CATALOG NUMBER: EPH-LS-08-0320L-57-80-1S-CV5-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	12.9	8.8	7.1	5.8	5.1	4.5	4.3
-25°	13.0	8.9	7.0	5.8	5.1	4.5	4.3
-27.5°	13.0	9.0	6.9	5.7	5.1	4.5	4.3
-30°	12.6	9.0	6.8	5.7	5.1	4.5	4.3
-32.5°	12.0	9.0	6.8	5.6	5.1	4.5	4.3
-35°	11.8	9.0	6.8	5.6	5.1	4.5	4.3
-37.5°	11.7	8.9	6.7	5.5	5.1	4.5	4.3
-40°	11.5	8.8	6.6	5.4	5.0	4.5	4.3
-42.5°	11.3	8.6	6.6	5.4	5.0	4.5	4.3
-45°	11.0	8.5	6.6	5.4	5.0	4.5	4.3
-47.5°	10.5	8.3	6.5	5.4	5.0	4.5	4.3
-50°	10.2	8.1	6.5	5.4	5.0	4.5	4.3
-52.5°	9.9	7.8	6.4	5.4	5.1	4.5	4.3
-55°	9.6	7.7	6.3	5.4	5.1	4.5	4.3
-57.5°	9.2	7.5	6.3	5.5	5.1	4.5	4.3
-60°	8.8	7.4	6.2	5.5	5.1	4.5	4.3
-62.5°	8.5	7.2	6.1	5.4	5.0	4.5	4.3
-65°	8.3	7.0	6.0	5.4	5.0	4.5	4.3
-67.5°	8.0	6.8	5.9	5.4	4.9	4.5	4.3
-70°	7.6	6.6	5.8	5.4	4.9	4.4	4.3
-72.5°	7.3	6.4	5.7	5.3	4.8	4.4	4.3
-75°	6.9	6.1	5.6	5.2	4.7	4.4	4.3
-77.5°	6.5	5.9	5.5	5.1	4.7	4.4	4.3
-80°	6.0	5.7	5.3	5.0	4.6	4.4	4.3
-82.5°	5.8	5.5	5.2	4.9	4.5	4.4	4.3
-85°	5.6	5.3	5.0	4.8	4.5	4.3	4.3
-87.5°	5.4	5.2	4.9	4.6	4.4	4.3	4.3
-90°	4.3	4.3	4.3	4.3	4.3	4.3	4.3

(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

