

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: P701411 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-57-70-1S-CV1-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701411 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-133-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320L-57-70-1S-CV1-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 5700K, 70 CRI LEDS AND 1S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

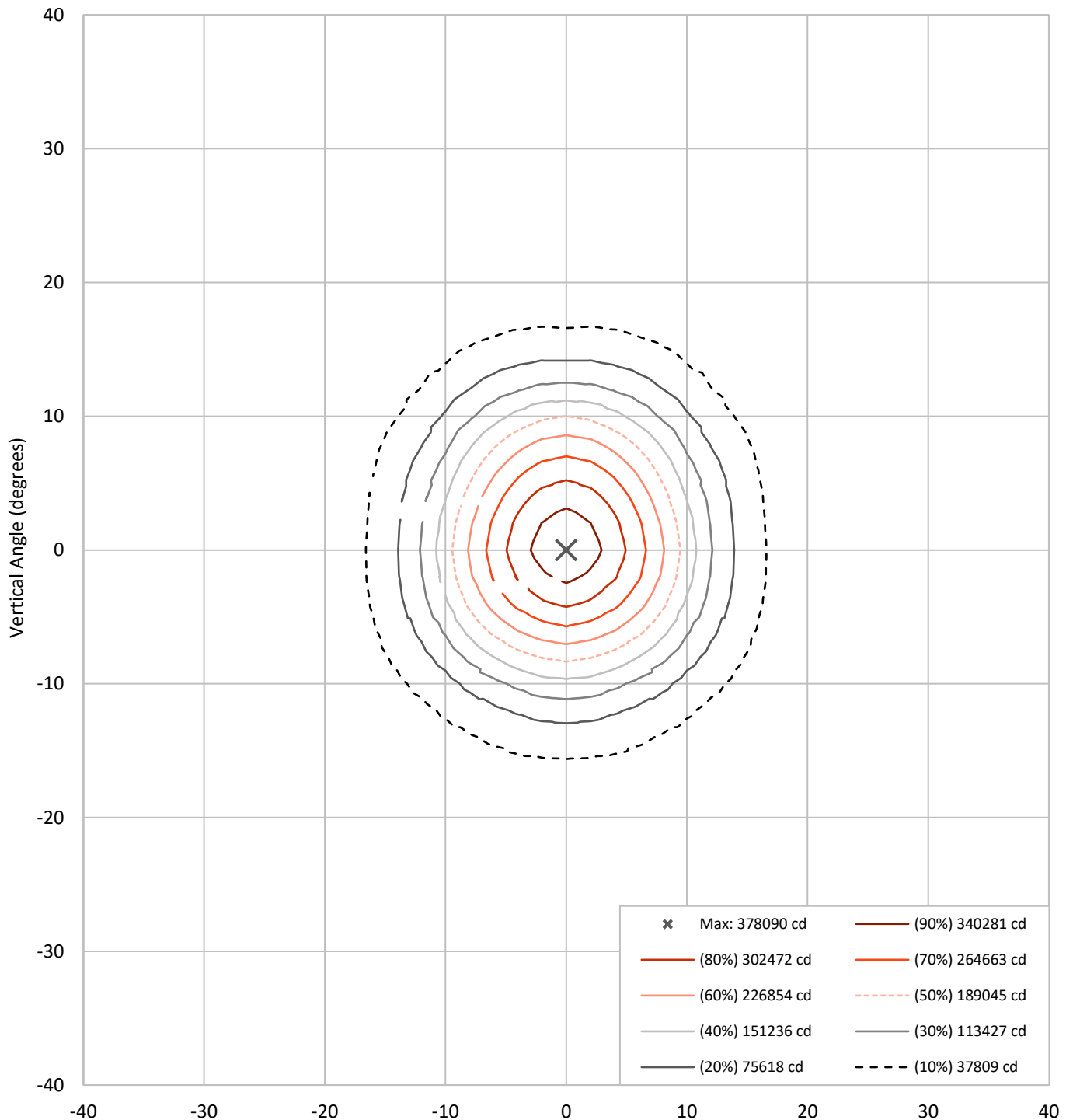
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	45541.5 lumens	Max Intensity:	378090 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	133.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	18.9°H x 18.3°V	Field Angle (10%):	33°H x 31.9°V
Beam Lumens:	21248.3 lumens	Field Lumens:	38592.8 lumens
Beam Efficiency:	46.7%	Field Efficiency:	84.7%

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





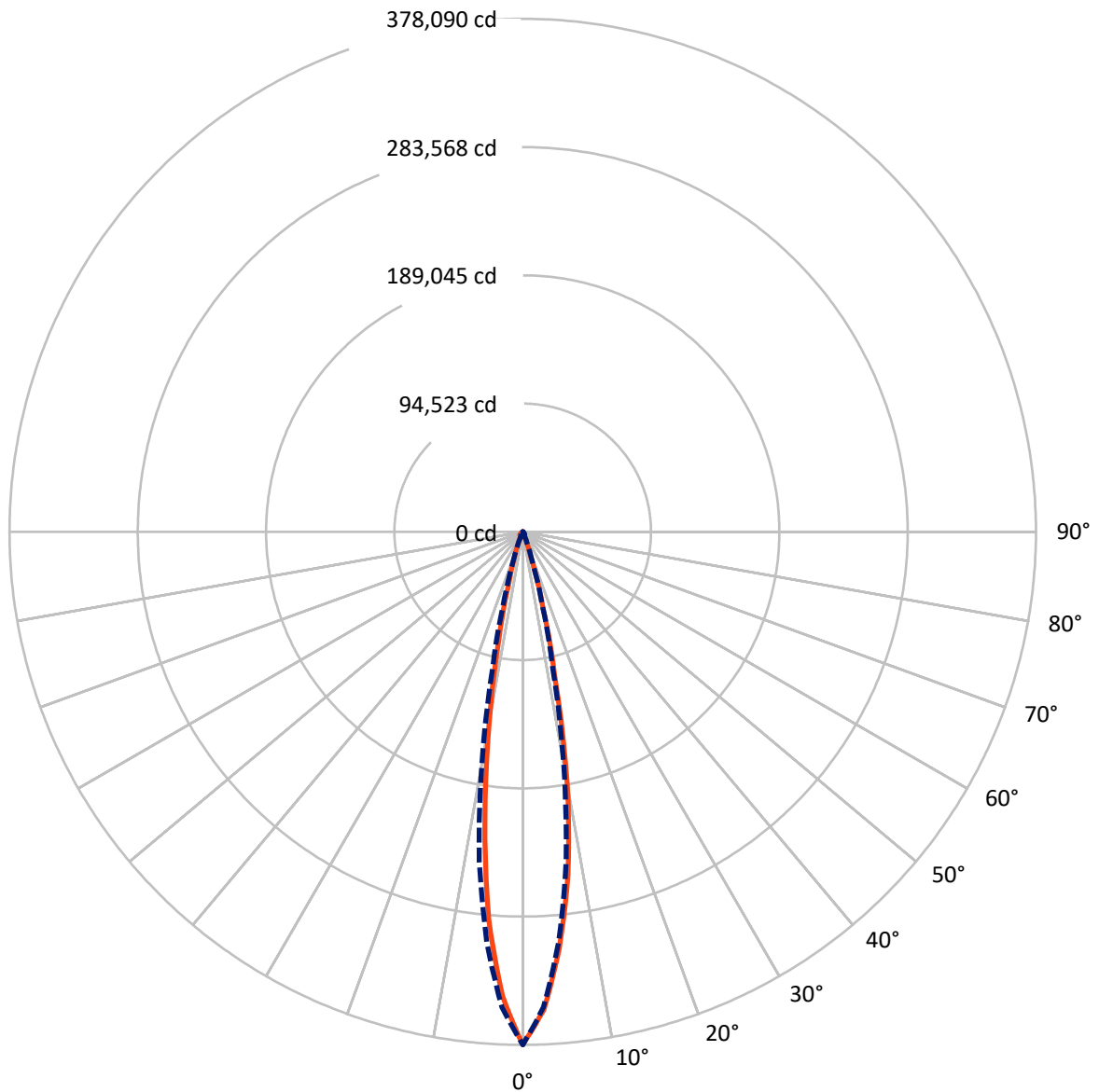
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### Lumen Table

90	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1					
80	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1					
70	0.1	0.0	0.1	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.1	0.0	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	0.1	0.1	0.3	0.3	0.3	0.5	0.8	0.6	0.6	0.8	0.5	0.3	0.3	0.3	0.1	0.1
40		0.2	0.5	1.3	2.5	3.6	5.2	6.4	6.4	5.2	3.6	2.5	1.3	0.5	0.2	
30	0.2	0.3	2.5	7.9	18.6	25.3	40.4	72.1	72.1	40.4	25.3	18.6	7.9	2.5	0.3	0.2
20		0.8	5.3	22.7	45.7	60.6	442.9	1785.0	1785.0	442.9	60.6	45.7	22.7	5.3	0.8	
10	0.2	1.2	6.8	30.6	50.9	111.3	1659.4	7166.4	7166.4	1659.4	111.3	50.9	30.6	6.8	1.2	0.2
0		1.5	7.2	30.1	50.8	108.0	1587.5	6638.7	6638.7	1587.5	108.0	50.8	30.1	7.2	1.5	
-10	0.3	1.8	6.9	24.1	46.9	59.2	353.5	1325.4	1325.4	353.5	59.2	46.9	24.1	6.9	1.8	0.3
-20		1.9	6.7	16.7	46.4	58.2	65.9	113.8	113.8	65.9	58.2	46.4	16.7	6.7	1.9	
-30	0.3	1.6	6.1	11.8	32.9	68.3	79.9	82.4	82.4	79.9	68.3	32.9	11.8	6.1	1.6	0.3
-40		1.1	4.6	10.4	17.4	31.4	56.9	77.2	77.2	56.9	31.4	17.4	10.4	4.6	1.1	
-50	0.2	0.6	2.7	7.0	13.3	19.4	24.4	27.5	27.5	24.4	19.4	13.3	7.0	2.7	0.6	0.2
-60		0.3	0.9	2.8	5.7	9.4	13.0	15.1	15.1	13.0	9.4	5.7	2.8	0.9	0.3	
-70	0.1	0.7	2.1	4.8	6.4	4.8	2.1	0.7	0.1							0.1
-80		0.1	0.7	2.1	4.8	6.4	4.8	2.1	0.7	0.1						
-90	0.1	0.7	2.1	4.8	6.4	4.8	2.1	0.7	0.1							0.1

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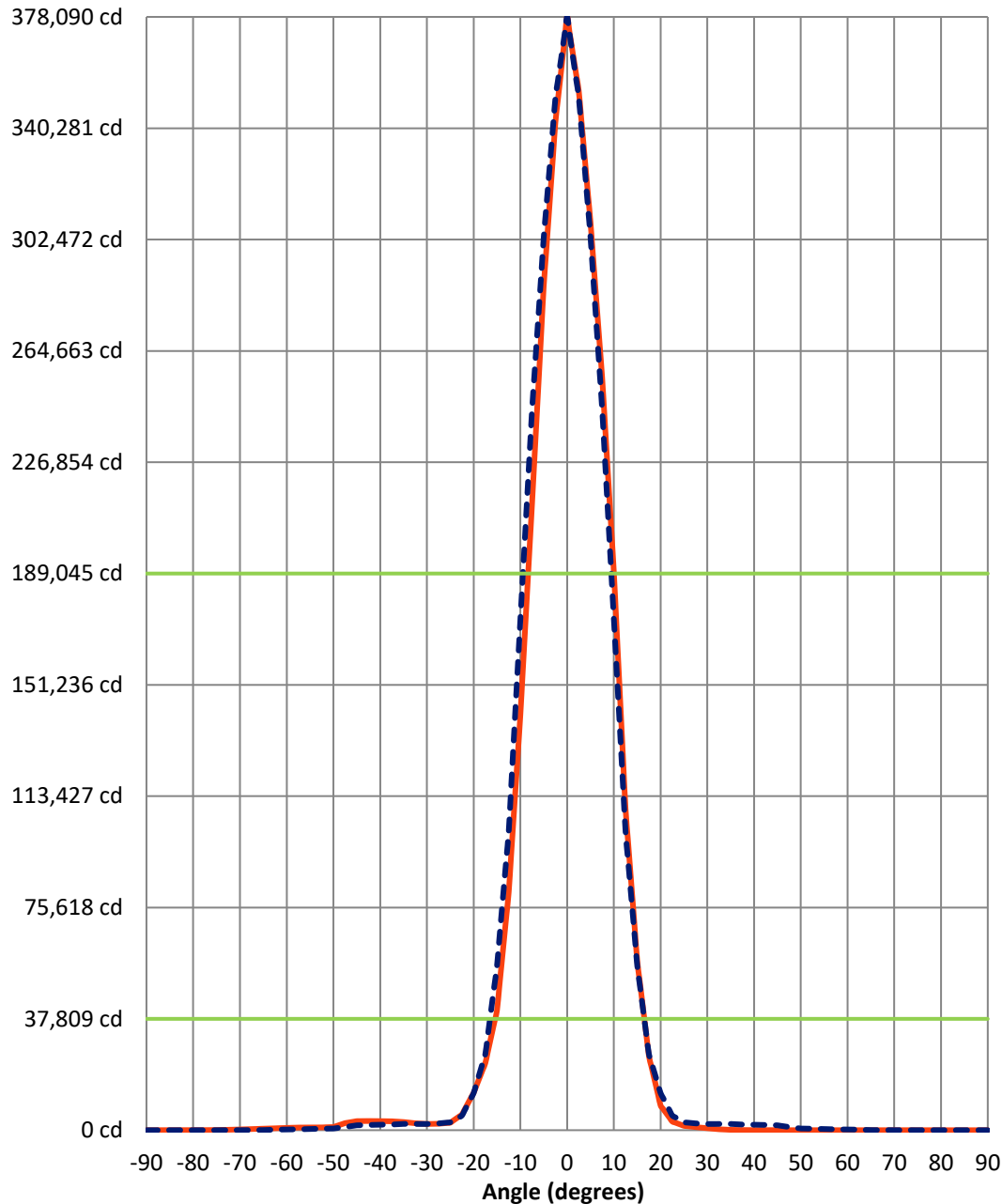
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 18.9°  
 V Angle: 18.3°  
 Lumens: 21248.3  
 Efficiency: 46.7%

**Field:**  
 H Angle: 33°  
 V Angle: 31.9°  
 Lumens: 38592.8  
 Efficiency: 84.7%

**Spill:**  
 Lumens: 6948.7  
 Efficiency: 15.3%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	2.7	2.7	2.7	3.2	3.7	4.1	4.6	5.1	5.5	6.0	6.4
87.5°	2.7	2.7	2.7	2.5	2.3	2.2	2.0	2.0	2.0	1.9	1.8
85°	2.7	2.7	2.7	2.5	2.4	2.3	2.3	2.2	2.1	2.0	1.8
82.5°	2.7	2.8	2.7	2.6	2.5	2.5	2.5	2.4	2.3	2.2	2.1
80°	2.7	2.8	2.7	2.6	2.6	2.6	2.7	2.7	2.6	2.5	2.4
77.5°	2.7	2.8	2.7	2.6	2.6	2.8	3.0	3.0	2.9	2.9	2.7
75°	2.7	2.8	2.7	2.7	2.7	3.0	3.2	3.2	3.2	3.0	2.8
72.5°	2.7	2.8	2.7	2.7	2.9	3.1	3.4	3.4	3.2	3.0	2.8
70°	2.7	2.9	2.7	2.7	3.0	3.3	3.6	3.5	3.3	3.0	3.1
67.5°	2.7	2.9	2.8	2.8	3.2	3.5	3.6	3.5	3.3	3.4	3.5
65°	2.7	2.9	2.8	2.9	3.3	3.6	3.7	3.5	3.6	3.8	3.8
62.5°	2.7	2.9	2.8	3.0	3.5	3.7	3.7	3.7	4.0	4.1	4.0
60°	2.7	3.0	2.8	3.1	3.6	3.8	3.8	4.0	4.3	4.3	4.1
57.5°	2.7	3.0	2.9	3.2	3.7	3.9	4.0	4.3	4.6	4.6	4.5
55°	2.7	3.0	3.0	3.3	3.8	4.0	4.3	4.6	4.8	4.9	5.0
52.5°	2.7	3.0	3.1	3.4	3.9	4.1	4.5	4.9	5.1	5.3	5.4
50°	2.7	3.1	3.2	3.5	4.0	4.3	4.7	5.2	5.5	5.6	6.2
47.5°	2.7	3.1	3.3	3.6	4.1	4.5	5.0	5.5	5.8	6.0	7.1
45°	2.7	3.1	3.3	3.7	4.2	4.7	5.3	5.8	6.1	6.7	7.8
42.5°	2.7	3.1	3.4	3.8	4.4	4.9	5.6	6.1	6.5	7.3	9.2
40°	2.7	3.2	3.5	3.9	4.5	5.1	5.9	6.4	6.9	7.9	10.7
37.5°	2.7	3.2	3.6	4.1	4.6	5.2	6.2	6.7	7.5	8.7	12.0
35°	2.7	3.2	3.7	4.2	4.8	5.4	6.5	7.0	8.0	10.1	13.1
32.5°	2.7	3.3	3.8	4.3	4.9	5.7	6.8	7.3	8.6	11.3	14.2
30°	2.7	3.3	3.8	4.4	5.0	5.9	7.0	7.6	9.2	12.5	15.5
27.5°	2.7	3.3	3.9	4.5	5.2	6.2	7.2	8.1	10.0	13.6	17.0
25°	2.7	3.3	4.0	4.7	5.3	6.4	7.4	8.5	10.9	14.8	18.7
22.5°	2.7	3.4	4.1	4.8	5.4	6.6	7.6	9.0	11.8	16.1	21.3
20°	2.7	3.4	4.1	4.9	5.6	6.8	7.8	9.5	12.6	17.5	24.2
17.5°	2.7	3.4	4.2	5.0	5.7	6.9	8.0	9.9	13.4	18.9	27.2
15°	2.7	3.5	4.3	5.1	5.8	7.0	8.2	10.3	14.1	20.3	30.3
12.5°	2.7	3.5	4.3	5.1	5.9	7.1	8.3	10.7	14.8	21.8	33.4
10°	2.7	3.5	4.4	5.2	6.0	7.2	8.5	11.0	15.4	23.1	36.5
7.5°	2.7	3.5	4.5	5.3	6.1	7.2	8.7	11.3	16.0	24.4	39.6
5°	2.7	3.6	4.5	5.4	6.2	7.3	8.8	11.5	16.5	25.5	42.5
2.5°	2.7	3.6	4.6	5.4	6.3	7.3	9.0	11.7	16.9	26.5	45.1
0°	2.7	3.6	4.6	5.5	6.4	7.3	9.1	11.9	17.3	27.4	47.4
-2.5°	2.7	3.6	4.6	5.6	6.6	7.7	9.9	14.2	22.2	36.1	61.0
-5°	2.7	3.6	4.7	5.6	6.7	8.1	10.8	16.3	26.9	44.5	73.9
-7.5°	2.7	3.7	4.7	5.7	6.8	8.4	11.5	18.3	31.3	52.3	85.8
-10°	2.7	3.7	4.7	5.7	7.0	8.8	12.2	20.1	35.3	59.3	96.6
-12.5°	2.7	3.7	4.7	5.7	7.1	9.1	12.8	21.7	38.6	65.5	105.6
-15°	2.7	3.7	4.8	5.8	7.2	9.3	13.3	22.9	41.8	71.1	113.0
-17.5°	2.7	3.7	4.8	5.8	7.2	9.5	13.8	24.3	45.0	75.6	118.7
-20°	2.7	3.7	4.8	5.8	7.3	9.7	14.2	25.7	47.3	79.0	122.6



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 CATALOG NUMBER: EPH-LS-08-0320L-57-70-1S-CV1-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.7	3.7	4.8	5.8	7.3	9.8	14.7	26.5	48.7	81.2	124.6
-25°	2.7	3.7	4.8	5.8	7.3	9.9	14.9	26.7	49.1	82.1	124.5
-27.5°	2.7	3.7	4.8	5.8	7.3	9.9	14.9	26.1	48.5	82.1	125.1
-30°	2.7	3.7	4.8	5.8	7.2	9.9	14.6	24.9	47.7	81.3	124.1
-32.5°	2.7	3.7	4.8	5.8	7.2	9.8	13.9	24.3	46.2	79.0	121.3
-35°	2.7	3.7	4.8	5.8	7.2	9.7	13.6	23.5	43.8	75.3	116.7
-37.5°	2.7	3.7	4.8	5.8	7.1	9.6	13.4	22.3	40.2	70.0	109.2
-40°	2.7	3.6	4.7	5.7	7.0	9.5	13.1	20.6	35.6	64.6	100.6
-42.5°	2.7	3.6	4.7	5.7	7.0	9.3	12.8	18.5	32.2	57.6	90.3
-45°	2.7	3.6	4.7	5.7	7.0	9.1	12.3	16.8	29.2	49.4	78.9
-47.5°	2.7	3.6	4.7	5.7	6.9	8.9	11.7	16.1	25.5	40.3	68.4
-50°	2.7	3.5	4.6	5.6	6.9	8.6	11.3	15.3	21.1	35.2	56.8
-52.5°	2.7	3.5	4.6	5.6	6.8	8.3	10.9	14.3	18.9	29.6	44.8
-55°	2.7	3.5	4.6	5.5	6.7	8.1	10.4	13.3	17.6	23.4	37.6
-57.5°	2.7	3.4	4.5	5.4	6.6	8.0	9.8	12.6	16.2	20.7	29.7
-60°	2.7	3.4	4.5	5.3	6.5	7.8	9.3	11.8	14.8	18.9	23.4
-62.5°	2.7	3.3	4.3	5.2	6.3	7.6	9.0	11.1	13.9	17.0	21.2
-65°	2.7	3.3	4.2	5.1	6.1	7.4	8.7	10.4	13.0	15.7	18.8
-67.5°	2.7	3.2	4.1	5.0	5.9	7.1	8.4	10.0	12.0	14.6	17.2
-70°	2.7	3.2	4.0	4.8	5.6	6.7	8.0	9.5	11.4	13.5	16.0
-72.5°	2.7	3.1	3.8	4.6	5.3	6.3	7.5	9.0	10.7	12.5	14.7
-75°	2.7	3.1	3.7	4.4	5.1	5.9	6.9	8.3	9.9	11.5	13.4
-77.5°	2.7	3.0	3.5	4.2	4.8	5.4	6.2	7.6	9.1	10.5	12.1
-80°	2.7	2.9	3.4	4.0	4.6	5.1	5.6	6.8	8.2	9.5	10.9
-82.5°	2.7	2.9	3.2	3.8	4.4	4.9	5.3	6.2	7.3	8.5	9.8
-85°	2.7	2.8	3.0	3.6	4.1	4.6	5.1	5.8	6.7	7.6	8.7
-87.5°	2.7	2.8	2.9	3.4	3.9	4.4	4.8	5.5	6.1	6.8	7.5
-90°	2.7	2.7	2.7	2.5	2.3	2.0	1.8	1.8	1.8	1.8	1.8





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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°	6.4	6.4	6.4	6.4	6.6	6.9	7.1	7.3	7.5	7.8	8.0
87.5°	1.7	1.6	1.5	1.4	1.3	1.2	1.1	0.9	0.9	0.9	0.9
85°	1.8	1.8	1.8	1.8	1.6	1.5	1.4	1.3	1.2	1.1	1.0
82.5°	2.1	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.6	1.5	1.4
80°	2.4	2.3	2.2	2.1	2.1	2.1	2.0	1.8	1.8	1.9	2.0
77.5°	2.6	2.5	2.5	2.6	2.5	2.4	2.3	2.3	2.4	2.5	2.7
75°	2.7	2.7	2.8	2.7	2.6	2.6	2.7	2.9	3.0	3.0	2.9
72.5°	2.8	3.0	2.9	2.8	2.9	3.1	3.3	3.5	4.0	4.5	5.0
70°	3.2	3.3	3.2	3.2	3.4	3.8	4.6	5.6	6.7	7.8	9.5
67.5°	3.5	3.4	3.5	3.7	4.4	5.3	6.4	10.1	14.3	16.1	16.6
65°	3.6	3.6	4.0	4.6	5.4	8.3	12.3	17.3	22.0	22.5	21.7
62.5°	3.6	4.0	4.6	6.0	8.7	12.6	16.9	21.6	26.9	27.1	23.7
60°	4.1	4.5	5.9	8.5	11.7	15.2	19.9	23.7	28.1	30.1	23.0
57.5°	4.6	5.4	7.7	10.7	13.9	16.5	19.1	23.0	25.3	25.7	19.0
55°	5.3	6.5	9.4	13.0	15.3	14.7	16.8	19.0	19.9	18.5	13.2
52.5°	6.4	7.8	11.5	14.5	15.0	13.8	13.8	14.8	13.8	11.9	10.3
50°	7.4	10.1	13.5	15.4	15.0	13.1	11.1	10.9	10.5	9.8	8.9
47.5°	9.1	12.3	15.1	16.3	14.4	12.5	10.1	9.7	9.7	9.3	8.5
45°	10.9	13.9	16.9	15.8	14.1	12.2	11.2	10.0	10.0	10.1	10.7
42.5°	12.6	15.3	16.8	15.4	14.2	13.7	13.4	12.0	11.9	14.4	15.3
40°	13.8	16.5	16.8	16.5	15.3	16.5	16.9	17.0	17.8	20.5	21.8
37.5°	14.7	16.9	18.0	19.7	18.5	20.5	21.4	31.4	32.6	27.5	37.8
35°	15.5	17.8	22.3	27.3	28.9	25.7	38.7	52.4	57.2	54.1	65.7
32.5°	16.3	19.0	28.2	40.1	51.0	48.2	60.9	84.6	99.7	107.4	116.7
30°	18.0	24.5	37.5	56.4	84.5	101.3	102.2	127.4	155.2	204.6	249.1
27.5°	20.8	31.7	53.2	87.5	130.6	165.7	172.3	188.5	252.1	345.6	463.2
25°	24.1	49.3	71.2	129.6	193.2	232.7	244.2	271.8	382.2	596.5	712.7
22.5°	33.0	72.8	101.6	178.7	263.4	297.5	321.5	421.8	621.2	904.4	991.7
20°	49.9	100.0	139.5	220.9	334.2	361.5	397.6	612.7	932.3	1168.2	1286.8
17.5°	69.8	127.4	177.4	262.5	362.3	412.7	489.0	831.3	1253.7	1423.1	1546.5
15°	92.1	154.8	210.3	299.2	387.1	446.7	632.3	1085.4	1525.5	1665.7	1786.5
12.5°	115.9	182.0	238.6	331.0	411.6	478.4	762.7	1264.0	1656.3	1854.5	2010.0
10°	140.4	208.8	262.8	358.3	435.3	507.5	884.8	1417.1	1722.3	1886.5	2058.1
7.5°	155.7	225.8	281.4	381.2	458.0	533.9	995.5	1544.5	1767.8	1896.4	2023.6
5°	167.1	231.7	286.1	391.5	474.9	553.4	1078.8	1645.8	1796.7	1888.8	1963.5
2.5°	175.7	235.7	289.3	397.1	487.6	563.2	1086.7	1661.8	1787.9	1874.4	1925.9
0°	181.5	238.0	290.9	399.4	497.9	570.0	1070.6	1653.3	1768.2	1857.6	1917.8
-2.5°	187.9	244.9	304.0	406.5	498.8	570.2	1055.3	1636.9	1787.7	1907.8	2007.6
-5°	191.7	250.5	315.2	410.8	497.1	567.9	1020.9	1594.9	1785.3	1911.7	2034.2
-7.5°	193.5	254.8	323.9	412.0	490.0	557.0	962.6	1494.7	1710.2	1828.4	1980.0
-10°	194.2	260.3	328.0	405.6	476.2	540.0	884.8	1378.9	1632.6	1740.8	1900.1
-12.5°	196.0	266.9	330.5	399.2	462.1	521.1	789.8	1252.0	1554.4	1649.6	1811.9
-15°	196.0	272.1	332.4	393.7	448.4	500.6	678.1	1117.9	1511.7	1666.2	1799.7
-17.5°	194.4	276.1	333.7	389.8	435.9	478.7	554.7	998.1	1484.8	1702.2	1833.8
-20°	191.3	278.9	334.9	388.3	425.3	468.5	528.9	864.6	1347.8	1718.6	1879.3



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	186.8	280.5	336.0	387.0	428.7	469.6	520.4	713.2	1157.5	1716.5	1880.6
-25°	184.7	272.7	335.8	386.8	433.9	471.7	510.4	569.2	952.9	1472.3	1830.8
-27.5°	183.9	263.6	330.0	383.0	438.5	475.1	508.6	556.3	757.3	1179.7	1728.7
-30°	180.3	248.7	321.7	375.4	433.9	478.9	511.9	542.1	597.5	927.7	1384.6
-32.5°	172.0	233.2	305.8	364.3	422.8	482.6	513.1	539.2	580.0	677.7	1048.8
-35°	162.3	220.8	287.0	350.1	407.3	470.2	511.2	538.5	565.3	612.6	780.8
-37.5°	153.6	206.6	267.8	331.4	388.9	447.9	506.8	535.7	562.8	596.5	660.5
-40°	143.1	190.6	249.6	310.1	367.5	424.4	481.5	531.7	558.9	602.8	645.0
-42.5°	131.0	177.1	230.2	288.2	343.2	399.0	454.9	508.7	565.0	609.1	651.3
-45°	117.8	161.8	209.6	262.3	316.3	370.7	425.0	481.0	548.8	615.9	658.3
-47.5°	102.7	144.7	190.1	233.7	285.7	339.0	392.2	450.8	518.1	588.2	663.7
-50°	86.8	125.5	167.0	207.1	251.3	303.2	355.4	414.3	477.6	545.5	616.7
-52.5°	72.2	104.3	141.7	180.5	219.1	262.3	314.7	370.6	429.8	493.6	555.8
-55°	56.4	84.7	114.4	150.9	188.7	225.4	268.0	320.4	375.1	432.8	489.0
-57.5°	44.4	64.5	89.5	118.5	154.1	191.2	227.8	267.5	315.8	366.8	413.6
-60°	34.7	47.8	66.0	89.8	116.1	150.2	186.4	222.3	259.7	297.0	337.4
-62.5°	25.7	35.8	47.5	62.9	85.0	108.3	138.4	171.8	206.6	237.6	266.9
-65°	22.8	25.8	33.8	44.5	55.4	74.6	95.9	118.3	147.3	174.6	201.1
-67.5°	19.8	22.6	25.2	29.2	38.8	48.3	57.8	76.3	95.7	113.2	131.7
-70°	18.0	19.6	21.8	24.1	26.3	30.3	38.6	46.8	54.5	64.0	78.6
-72.5°	16.3	17.5	19.0	20.6	22.5	24.4	26.3	28.3	33.2	39.6	45.4
-75°	14.6	15.4	16.5	17.7	19.1	20.4	21.8	23.4	25.1	26.9	28.8
-77.5°	13.0	13.6	14.3	15.0	15.8	17.0	18.1	19.2	20.3	21.3	22.3
-80°	11.5	11.9	12.4	12.9	13.5	14.2	14.8	15.6	16.3	17.1	18.0
-82.5°	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.4	12.9	13.4	13.8
-85°	8.9	9.1	9.3	9.5	9.7	9.9	10.1	10.3	10.4	10.6	10.7
-87.5°	7.6	7.7	7.9	7.9	8.1	8.3	8.4	8.6	8.7	8.8	8.9
-90°	1.6	1.4	1.1	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	8.2	8.4	8.7	8.9	9.1	9.3	9.6	9.8	10.0	10.0	10.0
87.5°	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.7	0.4
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	1.3	1.3	1.2	1.1	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	2.0	1.9	1.8	1.6	1.5	1.4	1.3	1.1	0.9	0.9	0.9
77.5°	2.7	2.5	2.3	2.1	1.8	1.7	1.7	1.6	1.6	1.7	1.7
75°	2.8	2.7	2.9	2.8	2.7	2.6	2.4	2.2	1.9	1.8	1.8
72.5°	5.4	5.6	5.5	5.4	4.9	4.6	4.4	4.3	4.0	4.0	3.9
70°	10.4	10.5	10.0	9.1	7.7	6.8	6.4	6.0	5.5	5.4	5.7
67.5°	15.8	14.4	13.2	11.6	9.8	8.5	8.0	7.5	7.0	6.8	6.8
65°	19.4	15.3	13.0	11.5	10.6	9.5	8.5	7.5	6.6	5.9	5.7
62.5°	19.2	13.4	10.8	9.6	8.7	8.0	7.0	6.1	5.4	4.9	4.8
60°	16.7	11.2	8.3	7.5	6.9	6.4	5.9	5.3	4.9	4.6	4.6
57.5°	13.0	8.7	6.4	6.3	6.0	5.7	5.4	5.1	4.8	4.6	4.8
55°	9.5	7.6	6.5	6.3	6.1	5.8	5.4	5.4	5.3	5.2	5.5
52.5°	8.2	7.5	7.2	7.0	6.6	6.4	6.3	6.3	6.4	6.6	6.7
50°	8.1	7.8	7.6	7.2	7.2	7.2	7.2	7.5	7.8	7.8	7.9
47.5°	8.4	8.3	8.6	8.1	8.3	8.9	9.0	9.2	9.9	10.0	9.9
45°	9.9	11.2	11.6	11.5	11.3	14.6	15.3	14.0	19.3	18.5	14.4
42.5°	15.3	16.9	18.0	21.3	26.1	29.3	37.9	52.0	46.5	35.0	22.6
40°	26.2	25.7	30.7	36.8	40.4	47.0	57.5	70.9	65.4	55.6	59.4
37.5°	46.2	46.7	48.4	56.3	59.3	52.0	67.3	66.2	56.1	71.8	73.6
35°	84.7	93.7	79.6	96.9	101.0	94.8	100.4	111.1	96.1	116.2	122.7
32.5°	152.4	168.0	168.6	172.6	187.0	200.9	204.8	233.6	242.9	267.1	293.2
30°	243.5	272.2	296.6	303.2	322.4	356.6	384.8	440.3	499.6	544.2	602.9
27.5°	438.9	412.9	467.3	533.5	512.4	562.1	663.9	744.0	862.3	947.5	993.5
25°	709.9	667.7	766.7	867.6	867.8	876.3	1023.6	1152.1	1248.9	1325.8	1393.2
22.5°	1029.7	1082.3	1171.1	1288.3	1227.2	1282.9	1429.2	1533.5	1669.2	1802.1	2200.6
20°	1388.2	1494.6	1567.6	1550.1	1547.5	1642.1	1770.8	1972.1	2382.5	3829.4	5211.0
17.5°	1704.0	1833.2	1826.8	1753.2	1788.1	1947.0	2180.5	2962.1	5035.5	9734.5	14132.1
15°	1948.9	2006.5	1968.6	1924.6	2002.6	2240.5	2824.6	5351.9	11643.7	19168.7	27757.9
12.5°	2112.5	2089.9	1990.4	1997.6	2183.0	2517.3	4502.3	10417.3	19515.0	30201.6	51796.3
10°	2175.7	2113.8	2026.8	2107.3	2360.2	3164.9	6055.6	14464.0	28218.6	50436.3	79543.2
7.5°	2132.7	2079.9	2055.4	2197.6	2534.1	4191.4	9413.1	20458.1	40448.9	69100.3	110061.0
5°	2104.8	2069.5	2074.8	2256.9	2644.1	4946.2	11786.0	24229.0	50173.1	87149.3	139260.3
2.5°	2103.2	2082.2	2091.4	2298.1	2706.1	5332.6	13122.7	24857.0	53588.9	96966.9	163152.1
0°	2125.7	2112.0	2103.8	2306.3	2676.5	4954.5	12590.1	25865.9	55932.2	101396.4	173531.7
-2.5°	2230.8	2118.8	2114.1	2305.8	2709.2	5235.7	12901.9	25517.5	55086.4	97302.6	162397.1
-5°	2205.6	2079.0	2058.8	2219.8	2596.4	4714.8	11295.2	23566.1	48387.7	82736.9	133853.3
-7.5°	2106.0	2021.4	1985.4	2113.5	2441.1	3957.3	8759.6	18605.7	36436.8	62364.0	96455.3
-10°	2024.9	1969.1	1916.0	2004.7	2253.6	3024.3	5584.1	12482.1	24784.6	42408.8	61932.3
-12.5°	1982.3	1955.9	1860.2	1884.9	2058.9	2400.7	3907.3	8437.0	15521.5	23028.5	37618.7
-15°	1952.1	1932.1	1842.5	1836.6	1933.7	2135.7	2574.0	4376.3	8679.7	14084.1	19875.4
-17.5°	1924.8	1917.5	1870.1	1818.5	1830.7	1947.8	2189.1	2829.0	4438.8	7874.0	11617.3
-20°	1938.0	1942.2	1906.0	1852.2	1833.0	1848.1	1973.5	2194.0	2601.7	3990.5	5686.4



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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°	1933.9	1946.2	1936.5	1940.4	1917.3	1882.0	1857.2	1953.4	2107.7	2354.7	2982.0
-25°	1933.5	1950.5	2022.9	2115.6	2106.0	2021.9	1933.8	1857.5	1945.7	2052.4	2208.1
-27.5°	1904.9	2015.6	2195.9	2332.6	2371.7	2279.5	2156.3	2028.1	2014.0	2010.6	2070.5
-30°	1895.5	2133.3	2346.0	2540.9	2568.3	2521.8	2464.8	2373.4	2275.4	2221.1	2192.1
-32.5°	1609.4	2185.2	2445.3	2620.6	2664.1	2662.0	2674.8	2631.4	2600.8	2565.8	2516.2
-35°	1221.9	1826.1	2462.9	2543.7	2614.4	2677.3	2761.6	2783.1	2800.1	2819.5	2836.9
-37.5°	853.2	1324.3	1853.3	2314.9	2461.5	2571.1	2720.4	2829.9	2921.0	2966.2	3020.5
-40°	706.8	837.0	1246.8	1637.0	2021.3	2375.8	2536.6	2723.2	2897.8	2994.7	3083.4
-42.5°	692.3	738.6	787.9	1060.0	1385.3	1719.9	2048.6	2346.6	2664.1	2875.8	3031.6
-45°	697.0	720.4	749.1	796.9	847.9	1103.2	1378.6	1659.8	2006.8	2345.8	2641.7
-47.5°	696.4	717.8	740.5	763.7	794.1	841.7	890.6	970.1	1216.2	1476.4	1728.1
-50°	672.2	715.7	736.9	758.5	780.6	804.2	828.9	863.8	905.4	944.4	976.0
-52.5°	611.4	662.5	711.7	752.9	773.2	793.8	815.7	844.8	872.2	897.8	911.1
-55°	542.5	593.4	643.2	687.4	729.2	769.4	806.7	833.4	860.7	888.4	899.8
-57.5°	463.4	514.8	564.2	605.4	647.1	688.8	727.5	764.6	801.6	836.7	856.3
-60°	379.2	422.1	466.3	508.6	549.1	587.6	623.6	658.8	692.5	721.9	740.5
-62.5°	296.4	330.2	367.6	404.3	439.8	474.2	507.4	539.1	568.9	594.1	611.6
-65°	226.9	252.2	277.9	304.3	331.4	360.9	388.8	415.2	439.9	460.4	475.6
-67.5°	154.1	175.9	196.8	216.4	236.2	257.0	278.2	298.2	316.7	331.8	343.6
-70°	92.6	106.2	119.5	133.6	149.5	164.7	179.7	193.8	207.0	217.3	225.1
-72.5°	50.5	55.4	62.0	72.8	82.8	92.1	100.6	108.3	115.2	120.9	125.6
-75°	30.7	33.2	37.2	41.1	44.7	48.3	51.7	54.8	57.6	60.0	62.0
-77.5°	23.5	24.9	26.1	27.3	28.4	29.7	30.9	32.0	33.0	34.0	34.8
-80°	18.8	19.5	20.2	20.9	21.6	22.4	23.1	23.9	24.6	25.1	25.5
-82.5°	14.3	15.1	15.7	16.3	16.9	17.3	17.8	18.2	18.6	19.0	19.4
-85°	10.9	11.4	11.9	12.4	13.0	13.2	13.3	13.4	13.5	13.8	14.1
-87.5°	8.9	9.2	9.4	9.7	9.9	10.2	10.4	10.6	10.9	11.1	11.4
-90°	0.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8
87.5°	0.2	0.0	0.4	0.9	0.4	0.0	0.2	0.4	0.7	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.6
75°	1.8	1.8	2.2	2.7	2.2	1.8	1.8	1.8	1.8	1.9	2.2
72.5°	3.8	3.6	3.6	3.6	3.6	3.6	3.8	3.9	4.0	4.0	4.3
70°	6.0	6.3	6.4	6.4	6.4	6.3	6.0	5.7	5.4	5.5	6.0
67.5°	6.6	6.4	5.6	4.6	5.6	6.4	6.6	6.8	6.8	7.0	7.5
65°	5.6	5.5	5.1	4.6	5.1	5.5	5.6	5.7	5.9	6.6	7.5
62.5°	4.7	4.6	4.6	4.6	4.6	4.6	4.7	4.8	4.9	5.4	6.1
60°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.9	5.3
57.5°	5.1	5.4	5.5	5.5	5.5	5.4	5.1	4.8	4.6	4.8	5.1
55°	5.9	6.2	6.4	6.4	6.4	6.2	5.9	5.5	5.2	5.3	5.4
52.5°	6.7	6.5	6.7	7.3	6.7	6.5	6.7	6.7	6.6	6.4	6.3
50°	8.0	8.1	8.2	8.2	8.2	8.1	8.0	7.9	7.8	7.8	7.5
47.5°	10.1	10.0	10.0	10.0	10.0	10.0	10.1	9.9	10.0	9.9	9.2
45°	14.9	15.2	15.6	16.4	15.6	15.2	14.9	14.4	18.5	19.3	14.0
42.5°	23.6	24.1	24.4	24.6	24.4	24.1	23.6	22.6	35.0	46.5	52.0
40°	56.3	44.7	33.5	33.7	33.5	44.7	56.3	59.4	55.6	65.4	70.9
37.5°	64.7	58.9	56.5	55.6	56.5	58.9	64.7	73.6	71.8	56.1	66.2
35°	122.5	124.6	121.8	123.1	121.8	124.6	122.5	122.7	116.2	96.1	111.1
32.5°	301.6	313.8	309.4	311.0	309.4	313.8	301.6	293.2	267.1	242.9	233.6
30°	626.5	664.2	672.7	670.3	672.7	664.2	626.5	602.9	544.2	499.6	440.3
27.5°	1012.1	1041.9	1048.1	1042.3	1048.1	1041.9	1012.1	993.5	947.5	862.3	744.0
25°	1430.4	1458.9	1475.0	1467.3	1475.0	1458.9	1430.4	1393.2	1325.8	1248.9	1152.1
22.5°	2661.9	2791.2	2854.2	2940.1	2854.2	2791.2	2661.9	2200.6	1802.1	1669.2	1533.5
20°	7850.6	8743.1	8573.9	8389.7	8573.9	8743.1	7850.6	5211.0	3829.4	2382.5	1972.1
17.5°	19596.3	23984.2	26073.5	25223.0	26073.5	23984.2	19596.3	14132.1	9734.5	5035.5	2962.1
15°	40080.0	52340.0	59508.2	57594.7	59508.2	52340.0	40080.0	27757.9	19168.7	11643.7	5351.9
12.5°	72605.4	92090.0	107017.0	109153.7	107017.0	92090.0	72605.4	51796.3	30201.6	19515.0	10417.3
10°	114183.3	150189.1	179861.7	189549.8	179861.7	150189.1	114183.3	79543.2	50436.3	28218.6	14464.0
7.5°	163742.3	211807.6	246028.3	255540.1	246028.3	211807.6	163742.3	110061.0	69100.3	40448.9	20458.1
5°	203489.3	258805.9	296701.4	308341.2	296701.4	258805.9	203489.3	139260.3	87149.3	50173.1	24229.0
2.5°	233260.9	291282.9	333540.5	352849.2	333540.5	291282.9	233260.9	163152.1	96966.9	53588.9	24857.0
0°	244793.9	303263.6	350649.2	378090.0	350649.2	303263.6	244793.9	173531.7	101396.4	55932.2	25865.9
-2.5°	233512.0	287872.4	324362.5	342356.5	324362.5	287872.4	233512.0	162397.1	97302.6	55086.4	25517.5
-5°	194406.3	242508.0	273975.8	286679.3	273975.8	242508.0	194406.3	133853.3	82736.9	48387.7	23566.1
-7.5°	139296.8	178782.6	202238.2	212942.1	202238.2	178782.6	139296.8	96455.3	62364.0	36436.8	18605.7
-10°	90499.8	112355.7	136005.4	141067.1	136005.4	112355.7	90499.8	61932.3	42408.8	24784.6	12482.1
-12.5°	50985.4	64776.8	76530.7	80772.7	76530.7	64776.8	50985.4	37618.7	23028.5	15521.5	8437.0
-15°	27584.7	35442.5	39676.4	40717.6	39676.4	35442.5	27584.7	19875.4	14084.1	8679.7	4376.3
-17.5°	15837.3	19612.0	21771.9	22763.6	21771.9	19612.0	15837.3	11617.3	7874.0	4438.8	2829.0
-20°	8463.1	10592.9	11809.0	12704.1	11809.0	10592.9	8463.1	5686.4	3990.5	2601.7	2194.0



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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°	3887.2	4543.6	4914.6	5333.9	4914.6	4543.6	3887.2	2982.0	2354.7	2107.7	1953.4
-25°	2343.3	2431.7	2484.9	2527.9	2484.9	2431.7	2343.3	2208.1	2052.4	1945.7	1857.5
-27.5°	2122.0	2150.9	2167.6	2185.0	2167.6	2150.9	2122.0	2070.5	2010.6	2014.0	2028.1
-30°	2167.2	2137.9	2127.7	2116.6	2127.7	2137.9	2167.2	2192.1	2221.1	2275.4	2373.4
-32.5°	2466.3	2409.3	2378.8	2350.0	2378.8	2409.3	2466.3	2516.2	2565.8	2600.8	2631.4
-35°	2830.2	2804.5	2791.0	2774.1	2791.0	2804.5	2830.2	2836.9	2819.5	2800.1	2783.1
-37.5°	3029.6	3025.1	3024.3	3015.7	3024.3	3025.1	3029.6	3020.5	2966.2	2921.0	2829.9
-40°	3093.7	3091.9	3087.5	3083.2	3087.5	3091.9	3093.7	3083.4	2994.7	2897.8	2723.2
-42.5°	3073.0	3100.5	3113.8	3114.2	3113.8	3100.5	3073.0	3031.6	2875.8	2664.1	2346.6
-45°	2830.3	2970.5	3052.1	3074.1	3052.1	2970.5	2830.3	2641.7	2345.8	2006.8	1659.8
-47.5°	1952.3	2150.1	2302.5	2398.4	2302.5	2150.1	1952.3	1728.1	1476.4	1216.2	970.1
-50°	1003.6	1029.3	1055.3	1080.6	1055.3	1029.3	1003.6	976.0	944.4	905.4	863.8
-52.5°	921.8	932.6	939.3	942.9	939.3	932.6	921.8	911.1	897.8	872.2	844.8
-55°	910.1	920.1	925.0	926.5	925.0	920.1	910.1	899.8	888.4	860.7	833.4
-57.5°	873.1	887.1	895.4	899.2	895.4	887.1	873.1	856.3	836.7	801.6	764.6
-60°	756.0	768.4	776.7	781.5	776.7	768.4	756.0	740.5	721.9	692.5	658.8
-62.5°	626.1	637.5	644.0	646.6	644.0	637.5	626.1	611.6	594.1	568.9	539.1
-65°	488.2	498.1	508.2	516.2	508.2	498.1	488.2	475.6	460.4	439.9	415.2
-67.5°	353.6	361.6	370.4	377.5	370.4	361.6	353.6	343.6	331.8	316.7	298.2
-70°	231.1	235.5	242.8	249.0	242.8	235.5	231.1	225.1	217.3	207.0	193.8
-72.5°	129.3	132.2	137.5	142.3	137.5	132.2	129.3	125.6	120.9	115.2	108.3
-75°	63.6	65.0	65.5	65.7	65.5	65.0	63.6	62.0	60.0	57.6	54.8
-77.5°	35.6	36.3	36.5	36.5	36.5	36.3	35.6	34.8	34.0	33.0	32.0
-80°	25.9	26.3	26.9	27.4	26.9	26.3	25.9	25.5	25.1	24.6	23.9
-82.5°	19.7	20.0	20.1	20.1	20.1	20.0	19.7	19.4	19.0	18.6	18.2
-85°	14.3	14.6	14.6	14.6	14.6	14.6	14.3	14.1	13.8	13.5	13.4
-87.5°	11.6	11.9	11.9	11.9	11.9	11.9	11.6	11.4	11.1	10.9	10.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	9.6	9.3	9.1	8.9	8.7	8.4	8.2	8.0	7.8	7.5	7.3
87.5°	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.1	1.2	1.3
82.5°	0.9	0.9	0.9	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.8
80°	1.3	1.4	1.5	1.6	1.8	1.9	2.0	2.0	1.9	1.8	1.8
77.5°	1.7	1.7	1.8	2.1	2.3	2.5	2.7	2.7	2.5	2.4	2.3
75°	2.4	2.6	2.7	2.8	2.9	2.7	2.8	2.9	3.0	3.0	2.9
72.5°	4.4	4.6	4.9	5.4	5.5	5.6	5.4	5.0	4.5	4.0	3.5
70°	6.4	6.8	7.7	9.1	10.0	10.5	10.4	9.5	7.8	6.7	5.6
67.5°	8.0	8.5	9.8	11.6	13.2	14.4	15.8	16.6	16.1	14.3	10.1
65°	8.5	9.5	10.6	11.5	13.0	15.3	19.4	21.7	22.5	22.0	17.3
62.5°	7.0	8.0	8.7	9.6	10.8	13.4	19.2	23.7	27.1	26.9	21.6
60°	5.9	6.4	6.9	7.5	8.3	11.2	16.7	23.0	30.1	28.1	23.7
57.5°	5.4	5.7	6.0	6.3	6.4	8.7	13.0	19.0	25.7	25.3	23.0
55°	5.4	5.8	6.1	6.3	6.5	7.6	9.5	13.2	18.5	19.9	19.0
52.5°	6.3	6.4	6.6	7.0	7.2	7.5	8.2	10.3	11.9	13.8	14.8
50°	7.2	7.2	7.2	7.2	7.6	7.8	8.1	8.9	9.8	10.5	10.9
47.5°	9.0	8.9	8.3	8.1	8.6	8.3	8.4	8.5	9.3	9.7	9.7
45°	15.3	14.6	11.3	11.5	11.6	11.2	9.9	10.7	10.1	10.0	10.0
42.5°	37.9	29.3	26.1	21.3	18.0	16.9	15.3	15.3	14.4	11.9	12.0
40°	57.5	47.0	40.4	36.8	30.7	25.7	26.2	21.8	20.5	17.8	17.0
37.5°	67.3	52.0	59.3	56.3	48.4	46.7	46.2	37.8	27.5	32.6	31.4
35°	100.4	94.8	101.0	96.9	79.6	93.7	84.7	65.7	54.1	57.2	52.4
32.5°	204.8	200.9	187.0	172.6	168.6	168.0	152.4	116.7	107.4	99.7	84.6
30°	384.8	356.6	322.4	303.2	296.6	272.2	243.5	249.1	204.6	155.2	127.4
27.5°	663.9	562.1	512.4	533.5	467.3	412.9	438.9	463.2	345.6	252.1	188.5
25°	1023.6	876.3	867.8	867.6	766.7	667.7	709.9	712.7	596.5	382.2	271.8
22.5°	1429.2	1282.9	1227.2	1288.3	1171.1	1082.3	1029.7	991.7	904.4	621.2	421.8
20°	1770.8	1642.1	1547.5	1550.1	1567.6	1494.6	1388.2	1286.8	1168.2	932.3	612.7
17.5°	2180.5	1947.0	1788.1	1753.2	1826.8	1833.2	1704.0	1546.5	1423.1	1253.7	831.3
15°	2824.6	2240.5	2002.6	1924.6	1968.6	2006.5	1948.9	1786.5	1665.7	1525.5	1085.4
12.5°	4502.3	2517.3	2183.0	1997.6	1990.4	2089.9	2112.5	2010.0	1854.5	1656.3	1264.0
10°	6055.6	3164.9	2360.2	2107.3	2026.8	2113.8	2175.7	2058.1	1886.5	1722.3	1417.1
7.5°	9413.1	4191.4	2534.1	2197.6	2055.4	2079.9	2132.7	2023.6	1896.4	1767.8	1544.5
5°	11786.0	4946.2	2644.1	2256.9	2074.8	2069.5	2104.8	1963.5	1888.8	1796.7	1645.8
2.5°	13122.7	5332.6	2706.1	2298.1	2091.4	2082.2	2103.2	1925.9	1874.4	1787.9	1661.8
0°	12590.1	4954.5	2676.5	2306.3	2103.8	2112.0	2125.7	1917.8	1857.6	1768.2	1653.3
-2.5°	12901.9	5235.7	2709.2	2305.8	2114.1	2118.8	2230.8	2007.6	1907.8	1787.7	1636.9
-5°	11295.2	4714.8	2596.4	2219.8	2058.8	2079.0	2205.6	2034.2	1911.7	1785.3	1594.9
-7.5°	8759.6	3957.3	2441.1	2113.5	1985.4	2021.4	2106.0	1980.0	1828.4	1710.2	1494.7
-10°	5584.1	3024.3	2253.6	2004.7	1916.0	1969.1	2024.9	1900.1	1740.8	1632.6	1378.9
-12.5°	3907.3	2400.7	2058.9	1884.9	1860.2	1955.9	1982.3	1811.9	1649.6	1554.4	1252.0
-15°	2574.0	2135.7	1933.7	1836.6	1842.5	1932.1	1952.1	1799.7	1666.2	1511.7	1117.9
-17.5°	2189.1	1947.8	1830.7	1818.5	1870.1	1917.5	1924.8	1833.8	1702.2	1484.8	998.1
-20°	1973.5	1848.1	1833.0	1852.2	1906.0	1942.2	1938.0	1879.3	1718.6	1347.8	864.6





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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°	1857.2	1882.0	1917.3	1940.4	1936.5	1946.2	1933.9	1880.6	1716.5	1157.5	713.2
-25°	1933.8	2021.9	2106.0	2115.6	2022.9	1950.5	1933.5	1830.8	1472.3	952.9	569.2
-27.5°	2156.3	2279.5	2371.7	2332.6	2195.9	2015.6	1904.9	1728.7	1179.7	757.3	556.3
-30°	2464.8	2521.8	2568.3	2540.9	2346.0	2133.3	1895.5	1384.6	927.7	597.5	542.1
-32.5°	2674.8	2662.0	2664.1	2620.6	2445.3	2185.2	1609.4	1048.8	677.7	580.0	539.2
-35°	2761.6	2677.3	2614.4	2543.7	2462.9	1826.1	1221.9	780.8	612.6	565.3	538.5
-37.5°	2720.4	2571.1	2461.5	2314.9	1853.3	1324.3	853.2	660.5	596.5	562.8	535.7
-40°	2536.6	2375.8	2021.3	1637.0	1246.8	837.0	706.8	645.0	602.8	558.9	531.7
-42.5°	2048.6	1719.9	1385.3	1060.0	787.9	738.6	692.3	651.3	609.1	565.0	508.7
-45°	1378.6	1103.2	847.9	796.9	749.1	720.4	697.0	658.3	615.9	548.8	481.0
-47.5°	890.6	841.7	794.1	763.7	740.5	717.8	696.4	663.7	588.2	518.1	450.8
-50°	828.9	804.2	780.6	758.5	736.9	715.7	672.2	616.7	545.5	477.6	414.3
-52.5°	815.7	793.8	773.2	752.9	711.7	662.5	611.4	555.8	493.6	429.8	370.6
-55°	806.7	769.4	729.2	687.4	643.2	593.4	542.5	489.0	432.8	375.1	320.4
-57.5°	727.5	688.8	647.1	605.4	564.2	514.8	463.4	413.6	366.8	315.8	267.5
-60°	623.6	587.6	549.1	508.6	466.3	422.1	379.2	337.4	297.0	259.7	222.3
-62.5°	507.4	474.2	439.8	404.3	367.6	330.2	296.4	266.9	237.6	206.6	171.8
-65°	388.8	360.9	331.4	304.3	277.9	252.2	226.9	201.1	174.6	147.3	118.3
-67.5°	278.2	257.0	236.2	216.4	196.8	175.9	154.1	131.7	113.2	95.7	76.3
-70°	179.7	164.7	149.5	133.6	119.5	106.2	92.6	78.6	64.0	54.5	46.8
-72.5°	100.6	92.1	82.8	72.8	62.0	55.4	50.5	45.4	39.6	33.2	28.3
-75°	51.7	48.3	44.7	41.1	37.2	33.2	30.7	28.8	26.9	25.1	23.4
-77.5°	30.9	29.7	28.4	27.3	26.1	24.9	23.5	22.3	21.3	20.3	19.2
-80°	23.1	22.4	21.6	20.9	20.2	19.5	18.8	18.0	17.1	16.3	15.6
-82.5°	17.8	17.3	16.9	16.3	15.7	15.1	14.3	13.8	13.4	12.9	12.4
-85°	13.3	13.2	13.0	12.4	11.9	11.4	10.9	10.7	10.6	10.4	10.3
-87.5°	10.4	10.2	9.9	9.7	9.4	9.2	8.9	8.9	8.8	8.7	8.6
-90°	0.0	0.0	0.0	0.2	0.5	0.7	0.9	0.9	0.9	0.9	0.9





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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°	7.1	6.9	6.6	6.4	6.4	6.4	6.4	6.4	6.0	5.5	5.1
87.5°	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.0
85°	1.4	1.5	1.6	1.8	1.8	1.8	1.8	1.8	2.0	2.1	2.2
82.5°	1.8	1.8	1.8	1.8	1.9	2.0	2.1	2.1	2.2	2.3	2.4
80°	2.0	2.1	2.1	2.1	2.2	2.3	2.4	2.4	2.5	2.6	2.7
77.5°	2.3	2.4	2.5	2.6	2.5	2.5	2.6	2.7	2.9	2.9	3.0
75°	2.7	2.6	2.6	2.7	2.8	2.7	2.7	2.8	3.0	3.2	3.2
72.5°	3.3	3.1	2.9	2.8	2.9	3.0	2.8	2.8	3.0	3.2	3.4
70°	4.6	3.8	3.4	3.2	3.2	3.3	3.2	3.1	3.0	3.3	3.5
67.5°	6.4	5.3	4.4	3.7	3.5	3.4	3.5	3.5	3.4	3.3	3.5
65°	12.3	8.3	5.4	4.6	4.0	3.6	3.6	3.8	3.8	3.6	3.5
62.5°	16.9	12.6	8.7	6.0	4.6	4.0	3.6	4.0	4.1	4.0	3.7
60°	19.9	15.2	11.7	8.5	5.9	4.5	4.1	4.1	4.3	4.3	4.0
57.5°	19.1	16.5	13.9	10.7	7.7	5.4	4.6	4.5	4.6	4.6	4.3
55°	16.8	14.7	15.3	13.0	9.4	6.5	5.3	5.0	4.9	4.8	4.6
52.5°	13.8	13.8	15.0	14.5	11.5	7.8	6.4	5.4	5.3	5.1	4.9
50°	11.1	13.1	15.0	15.4	13.5	10.1	7.4	6.2	5.6	5.5	5.2
47.5°	10.1	12.5	14.4	16.3	15.1	12.3	9.1	7.1	6.0	5.8	5.5
45°	11.2	12.2	14.1	15.8	16.9	13.9	10.9	7.8	6.7	6.1	5.8
42.5°	13.4	13.7	14.2	15.4	16.8	15.3	12.6	9.2	7.3	6.5	6.1
40°	16.9	16.5	15.3	16.5	16.8	16.5	13.8	10.7	7.9	6.9	6.4
37.5°	21.4	20.5	18.5	19.7	18.0	16.9	14.7	12.0	8.7	7.5	6.7
35°	38.7	25.7	28.9	27.3	22.3	17.8	15.5	13.1	10.1	8.0	7.0
32.5°	60.9	48.2	51.0	40.1	28.2	19.0	16.3	14.2	11.3	8.6	7.3
30°	102.2	101.3	84.5	56.4	37.5	24.5	18.0	15.5	12.5	9.2	7.6
27.5°	172.3	165.7	130.6	87.5	53.2	31.7	20.8	17.0	13.6	10.0	8.1
25°	244.2	232.7	193.2	129.6	71.2	49.3	24.1	18.7	14.8	10.9	8.5
22.5°	321.5	297.5	263.4	178.7	101.6	72.8	33.0	21.3	16.1	11.8	9.0
20°	397.6	361.5	334.2	220.9	139.5	100.0	49.9	24.2	17.5	12.6	9.5
17.5°	489.0	412.7	362.3	262.5	177.4	127.4	69.8	27.2	18.9	13.4	9.9
15°	632.3	446.7	387.1	299.2	210.3	154.8	92.1	30.3	20.3	14.1	10.3
12.5°	762.7	478.4	411.6	331.0	238.6	182.0	115.9	33.4	21.8	14.8	10.7
10°	884.8	507.5	435.3	358.3	262.8	208.8	140.4	36.5	23.1	15.4	11.0
7.5°	995.5	533.9	458.0	381.2	281.4	225.8	155.7	39.6	24.4	16.0	11.3
5°	1078.8	553.4	474.9	391.5	286.1	231.7	167.1	42.5	25.5	16.5	11.5
2.5°	1086.7	563.2	487.6	397.1	289.3	235.7	175.7	45.1	26.5	16.9	11.7
0°	1070.6	570.0	497.9	399.4	290.9	238.0	181.5	47.4	27.4	17.3	11.9
-2.5°	1055.3	570.2	498.8	406.5	304.0	244.9	187.9	61.0	36.1	22.2	14.2
-5°	1020.9	567.9	497.1	410.8	315.2	250.5	191.7	73.9	44.5	26.9	16.3
-7.5°	962.6	557.0	490.0	412.0	323.9	254.8	193.5	85.8	52.3	31.3	18.3
-10°	884.8	540.0	476.2	405.6	328.0	260.3	194.2	96.6	59.3	35.3	20.1
-12.5°	789.8	521.1	462.1	399.2	330.5	266.9	196.0	105.6	65.5	38.6	21.7
-15°	678.1	500.6	448.4	393.7	332.4	272.1	196.0	113.0	71.1	41.8	22.9
-17.5°	554.7	478.7	435.9	389.8	333.7	276.1	194.4	118.7	75.6	45.0	24.3
-20°	528.9	468.5	425.3	388.3	334.9	278.9	191.3	122.6	79.0	47.3	25.7



REPORT NUMBER: P701411 (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°	520.4	469.6	428.7	387.0	336.0	280.5	186.8	124.6	81.2	48.7	26.5
-25°	510.4	471.7	433.9	386.8	335.8	272.7	184.7	124.5	82.1	49.1	26.7
-27.5°	508.6	475.1	438.5	383.0	330.0	263.6	183.9	125.1	82.1	48.5	26.1
-30°	511.9	478.9	433.9	375.4	321.7	248.7	180.3	124.1	81.3	47.7	24.9
-32.5°	513.1	482.6	422.8	364.3	305.8	233.2	172.0	121.3	79.0	46.2	24.3
-35°	511.2	470.2	407.3	350.1	287.0	220.8	162.3	116.7	75.3	43.8	23.5
-37.5°	506.8	447.9	388.9	331.4	267.8	206.6	153.6	109.2	70.0	40.2	22.3
-40°	481.5	424.4	367.5	310.1	249.6	190.6	143.1	100.6	64.6	35.6	20.6
-42.5°	454.9	399.0	343.2	288.2	230.2	177.1	131.0	90.3	57.6	32.2	18.5
-45°	425.0	370.7	316.3	262.3	209.6	161.8	117.8	78.9	49.4	29.2	16.8
-47.5°	392.2	339.0	285.7	233.7	190.1	144.7	102.7	68.4	40.3	25.5	16.1
-50°	355.4	303.2	251.3	207.1	167.0	125.5	86.8	56.8	35.2	21.1	15.3
-52.5°	314.7	262.3	219.1	180.5	141.7	104.3	72.2	44.8	29.6	18.9	14.3
-55°	268.0	225.4	188.7	150.9	114.4	84.7	56.4	37.6	23.4	17.6	13.3
-57.5°	227.8	191.2	154.1	118.5	89.5	64.5	44.4	29.7	20.7	16.2	12.6
-60°	186.4	150.2	116.1	89.8	66.0	47.8	34.7	23.4	18.9	14.8	11.8
-62.5°	138.4	108.3	85.0	62.9	47.5	35.8	25.7	21.2	17.0	13.9	11.1
-65°	95.9	74.6	55.4	44.5	33.8	25.8	22.8	18.8	15.7	13.0	10.4
-67.5°	57.8	48.3	38.8	29.2	25.2	22.6	19.8	17.2	14.6	12.0	10.0
-70°	38.6	30.3	26.3	24.1	21.8	19.6	18.0	16.0	13.5	11.4	9.5
-72.5°	26.3	24.4	22.5	20.6	19.0	17.5	16.3	14.7	12.5	10.7	9.0
-75°	21.8	20.4	19.1	17.7	16.5	15.4	14.6	13.4	11.5	9.9	8.3
-77.5°	18.1	17.0	15.8	15.0	14.3	13.6	13.0	12.1	10.5	9.1	7.6
-80°	14.8	14.2	13.5	12.9	12.4	11.9	11.5	10.9	9.5	8.2	6.8
-82.5°	12.0	11.7	11.4	11.1	10.8	10.5	10.2	9.8	8.5	7.3	6.2
-85°	10.1	9.9	9.7	9.5	9.3	9.1	8.9	8.7	7.6	6.7	5.8
-87.5°	8.4	8.3	8.1	7.9	7.9	7.7	7.6	7.5	6.8	6.1	5.5
-90°	0.9	0.9	0.9	0.9	1.1	1.4	1.6	1.8	1.8	1.8	1.8



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	4.6	4.1	3.7	3.2	2.7	2.7	2.7
87.5°	2.0	2.2	2.3	2.5	2.7	2.7	2.7
85°	2.3	2.3	2.4	2.5	2.7	2.7	2.7
82.5°	2.5	2.5	2.5	2.6	2.7	2.8	2.7
80°	2.7	2.6	2.6	2.6	2.7	2.8	2.7
77.5°	3.0	2.8	2.6	2.6	2.7	2.8	2.7
75°	3.2	3.0	2.7	2.7	2.7	2.8	2.7
72.5°	3.4	3.1	2.9	2.7	2.7	2.8	2.7
70°	3.6	3.3	3.0	2.7	2.7	2.9	2.7
67.5°	3.6	3.5	3.2	2.8	2.8	2.9	2.7
65°	3.7	3.6	3.3	2.9	2.8	2.9	2.7
62.5°	3.7	3.7	3.5	3.0	2.8	2.9	2.7
60°	3.8	3.8	3.6	3.1	2.8	3.0	2.7
57.5°	4.0	3.9	3.7	3.2	2.9	3.0	2.7
55°	4.3	4.0	3.8	3.3	3.0	3.0	2.7
52.5°	4.5	4.1	3.9	3.4	3.1	3.0	2.7
50°	4.7	4.3	4.0	3.5	3.2	3.1	2.7
47.5°	5.0	4.5	4.1	3.6	3.3	3.1	2.7
45°	5.3	4.7	4.2	3.7	3.3	3.1	2.7
42.5°	5.6	4.9	4.4	3.8	3.4	3.1	2.7
40°	5.9	5.1	4.5	3.9	3.5	3.2	2.7
37.5°	6.2	5.2	4.6	4.1	3.6	3.2	2.7
35°	6.5	5.4	4.8	4.2	3.7	3.2	2.7
32.5°	6.8	5.7	4.9	4.3	3.8	3.3	2.7
30°	7.0	5.9	5.0	4.4	3.8	3.3	2.7
27.5°	7.2	6.2	5.2	4.5	3.9	3.3	2.7
25°	7.4	6.4	5.3	4.7	4.0	3.3	2.7
22.5°	7.6	6.6	5.4	4.8	4.1	3.4	2.7
20°	7.8	6.8	5.6	4.9	4.1	3.4	2.7
17.5°	8.0	6.9	5.7	5.0	4.2	3.4	2.7
15°	8.2	7.0	5.8	5.1	4.3	3.5	2.7
12.5°	8.3	7.1	5.9	5.1	4.3	3.5	2.7
10°	8.5	7.2	6.0	5.2	4.4	3.5	2.7
7.5°	8.7	7.2	6.1	5.3	4.5	3.5	2.7
5°	8.8	7.3	6.2	5.4	4.5	3.6	2.7
2.5°	9.0	7.3	6.3	5.4	4.6	3.6	2.7
0°	9.1	7.3	6.4	5.5	4.6	3.6	2.7
-2.5°	9.9	7.7	6.6	5.6	4.6	3.6	2.7
-5°	10.8	8.1	6.7	5.6	4.7	3.6	2.7
-7.5°	11.5	8.4	6.8	5.7	4.7	3.7	2.7
-10°	12.2	8.8	7.0	5.7	4.7	3.7	2.7
-12.5°	12.8	9.1	7.1	5.7	4.7	3.7	2.7
-15°	13.3	9.3	7.2	5.8	4.8	3.7	2.7
-17.5°	13.8	9.5	7.2	5.8	4.8	3.7	2.7
-20°	14.2	9.7	7.3	5.8	4.8	3.7	2.7



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	14.7	9.8	7.3	5.8	4.8	3.7	2.7
-25°	14.9	9.9	7.3	5.8	4.8	3.7	2.7
-27.5°	14.9	9.9	7.3	5.8	4.8	3.7	2.7
-30°	14.6	9.9	7.2	5.8	4.8	3.7	2.7
-32.5°	13.9	9.8	7.2	5.8	4.8	3.7	2.7
-35°	13.6	9.7	7.2	5.8	4.8	3.7	2.7
-37.5°	13.4	9.6	7.1	5.8	4.8	3.7	2.7
-40°	13.1	9.5	7.0	5.7	4.7	3.6	2.7
-42.5°	12.8	9.3	7.0	5.7	4.7	3.6	2.7
-45°	12.3	9.1	7.0	5.7	4.7	3.6	2.7
-47.5°	11.7	8.9	6.9	5.7	4.7	3.6	2.7
-50°	11.3	8.6	6.9	5.6	4.6	3.5	2.7
-52.5°	10.9	8.3	6.8	5.6	4.6	3.5	2.7
-55°	10.4	8.1	6.7	5.5	4.6	3.5	2.7
-57.5°	9.8	8.0	6.6	5.4	4.5	3.4	2.7
-60°	9.3	7.8	6.5	5.3	4.5	3.4	2.7
-62.5°	9.0	7.6	6.3	5.2	4.3	3.3	2.7
-65°	8.7	7.4	6.1	5.1	4.2	3.3	2.7
-67.5°	8.4	7.1	5.9	5.0	4.1	3.2	2.7
-70°	8.0	6.7	5.6	4.8	4.0	3.2	2.7
-72.5°	7.5	6.3	5.3	4.6	3.8	3.1	2.7
-75°	6.9	5.9	5.1	4.4	3.7	3.1	2.7
-77.5°	6.2	5.4	4.8	4.2	3.5	3.0	2.7
-80°	5.6	5.1	4.6	4.0	3.4	2.9	2.7
-82.5°	5.3	4.9	4.4	3.8	3.2	2.9	2.7
-85°	5.1	4.6	4.1	3.6	3.0	2.8	2.7
-87.5°	4.8	4.4	3.9	3.4	2.9	2.8	2.7
-90°	1.8	2.0	2.3	2.5	2.7	2.7	2.7

(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

