

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: P701485 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-80-1S-CV5-S**

Issue Date: 8/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P701485 (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-08-0640L-40-80-1S-CV5-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

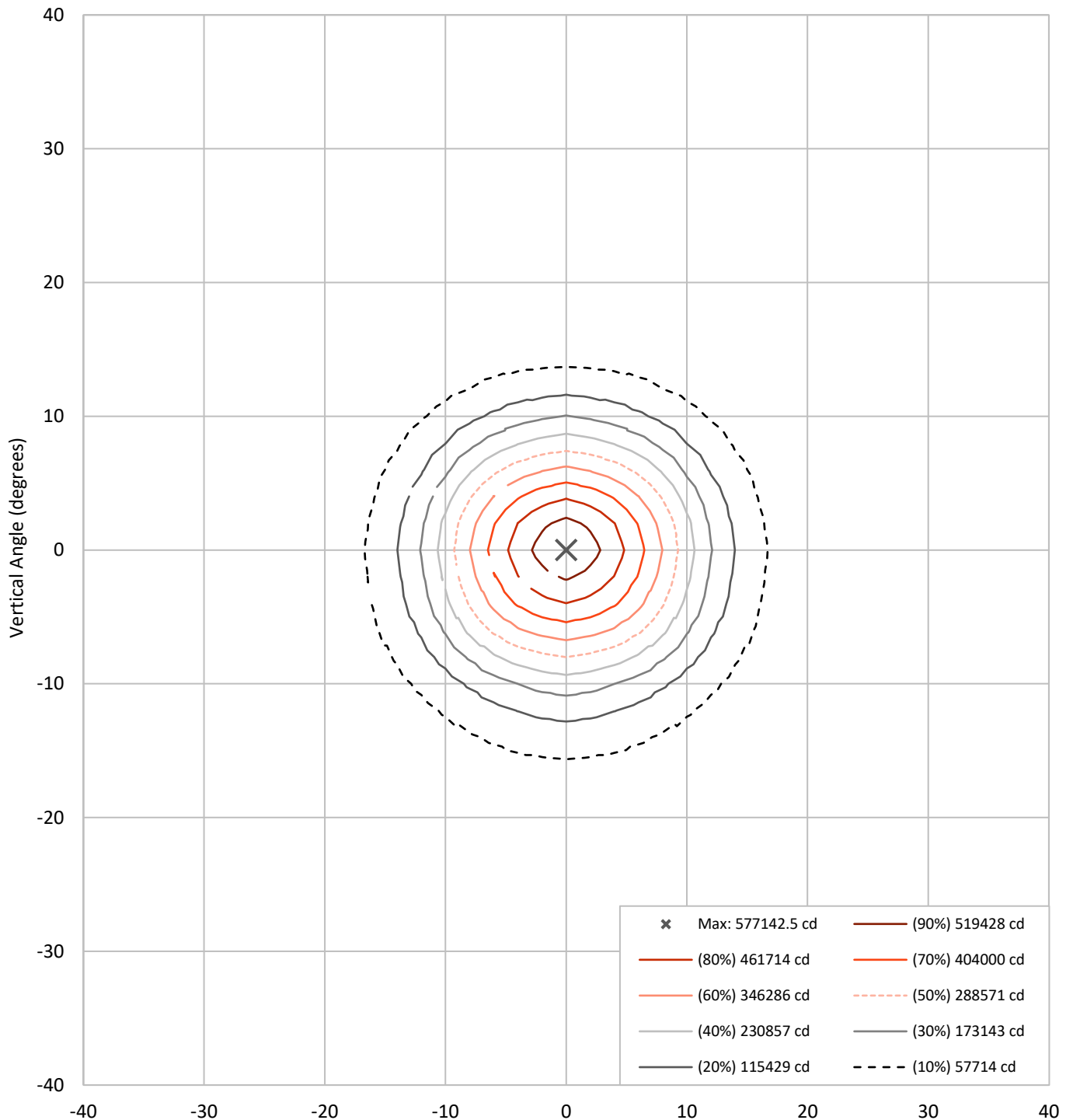
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	59335.7 lumens	Max Intensity:	577142.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	90.9 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:	27364.9 lumens	Field Lumens:	50485.4 lumens
Beam Efficiency:	46.1%	Field Efficiency:	85.1%

Input Watts (W): 653.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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CATALOG NUMBER: EPH-LS-08-0640L-40-80-1S-CV5-S

### Iso-Candela Plot





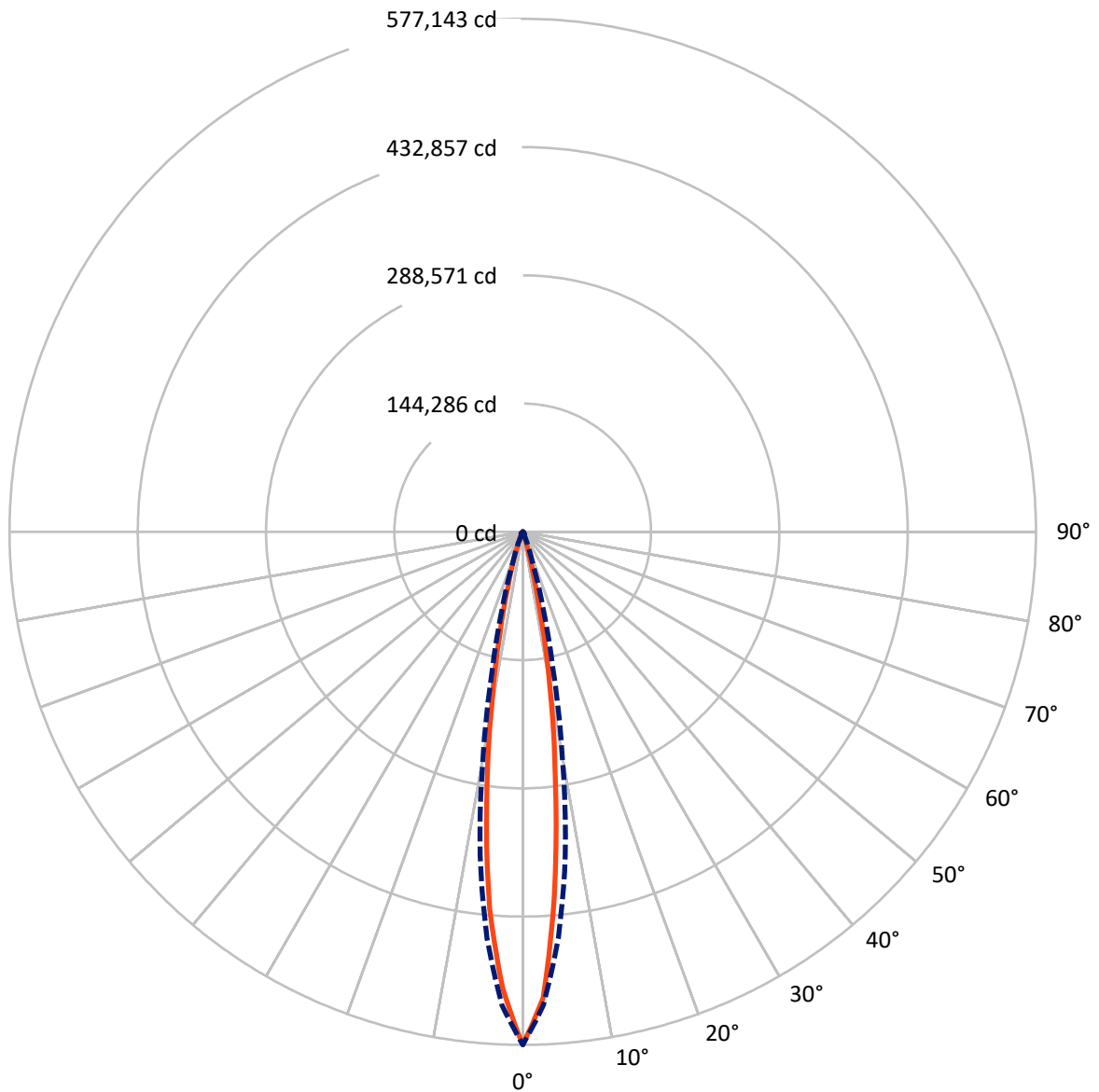
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### Lumen Table

90	0.2	0.4	0.6	0.7	0.9	0.7	0.6	0.4	0.2								
80	0.2	0.4	0.6	0.7	0.9	0.7	0.6	0.4	0.2								
70	0.2	0.1	0.2	0.6	0.7	0.5	0.3	0.3	0.3	0.3	0.5	0.7	0.6	0.2	0.1	0.2	
60		0.2	0.4	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.6	0.4	0.2		
50	0.3	0.2	0.5	0.4	0.4	0.5	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.5	0.2	0.3	
40		0.3	0.7	0.9	1.6	2.2	2.3	2.6	2.6	2.3	2.2	1.6	0.9	0.7	0.3		
30	0.4	0.5	1.5	3.5	6.6	7.5	10.7	21.5	21.5	10.7	7.5	6.6	3.5	1.5	0.5	0.4	
20		1.2	4.8	16.2	30.2	40.1	297.5	1239.0	1239.0	297.5	40.1	30.2	16.2	4.8	1.2		
10	0.4	1.9	9.5	40.7	66.0	150.0	2182.6	9457.6	9457.6	2182.6	150.0	66.0	40.7	9.5	1.9	0.4	
0		2.4	11.1	46.9	77.3	153.7	2342.4	9885.4	9885.4	2342.4	153.7	77.3	46.9	11.1	2.4		
-10	0.5	2.5	9.7	35.5	63.8	70.3	499.5	1940.4	1940.4	499.5	70.3	63.8	35.5	9.7	2.5	0.5	
-20		2.5	8.4	19.9	51.4	59.5	65.6	127.7	127.7	65.6	59.5	51.4	19.9	8.4	2.5		
-30	0.5	2.2	7.1	12.6	31.4	59.5	69.5	70.2	70.2	69.5	59.5	31.4	12.6	7.1	2.2	0.5	
-40		1.5	5.3	10.9	17.1	30.0	50.6	66.5	66.5	50.6	30.0	17.1	10.9	5.3	1.5		
-50	0.3	0.7	3.0	7.1	12.8	17.6	20.8	23.1	23.1	20.8	17.6	12.8	7.1	3.0	0.7	0.3	
-60		0.3	1.0	2.9	5.6	8.8	11.6	13.8	13.8	11.6	8.8	5.6	2.9	1.0	0.3		
-70																	
-80	0.2	1.0	2.6	6.2	10.4	6.2	2.6	1.0	0.2								
-90																	

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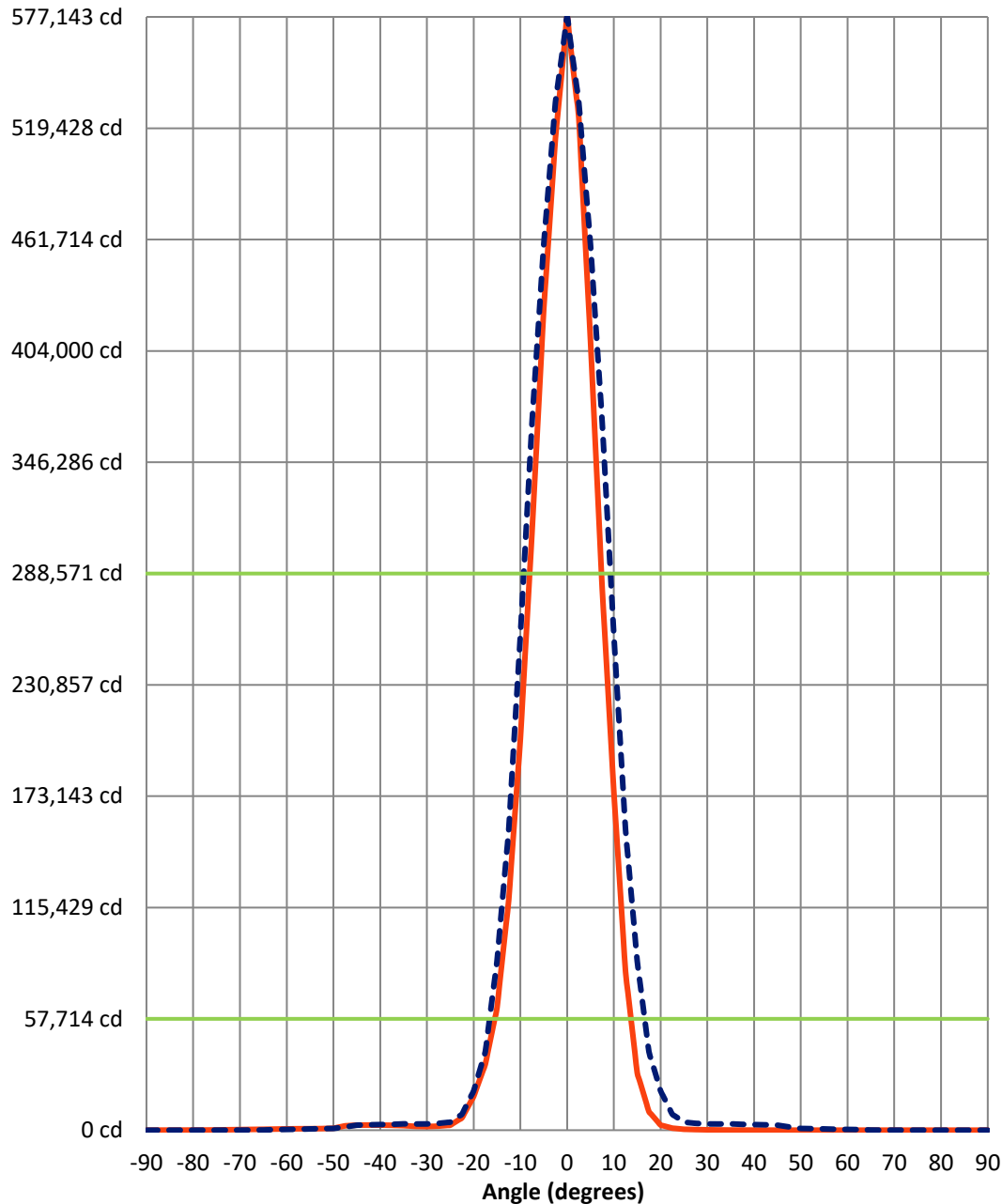
### Luminous Intensity Polar Plot



— 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: 27364.9  
 Efficiency: 46.1%

**Field:**  
 H Angle: 33.2°  
 V Angle: 29.1°  
 Lumens: 50485.4  
 Efficiency: 85.1%

**Spill:**  
 Lumens: 8850.3  
 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°	7.3	7.3	7.3	7.7	8.1	8.4	8.8	8.8	8.8	8.8	8.8
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
85°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
82.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
80°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
77.5°	7.3	7.3	7.3	7.3	7.3	7.4	7.3	7.3	7.3	7.3	7.3
75°	7.3	7.3	7.3	7.3	7.3	7.5	7.4	7.3	7.3	7.4	7.4
72.5°	7.3	7.3	7.3	7.3	7.6	7.8	7.5	7.4	7.6	7.6	7.4
70°	7.3	7.3	7.3	7.4	7.9	8.0	7.6	7.8	7.9	7.9	8.0
67.5°	7.3	7.3	7.3	7.7	8.2	8.2	8.0	8.1	8.3	8.5	8.6
65°	7.3	7.3	7.3	8.0	8.5	8.5	8.5	8.5	8.8	9.0	9.1
62.5°	7.3	7.3	7.3	8.3	8.8	8.9	8.9	9.0	9.3	9.6	9.4
60°	7.3	7.3	7.3	8.6	9.2	9.2	9.3	9.4	9.8	9.9	9.6
57.5°	7.3	7.3	7.5	8.9	9.5	9.6	9.8	9.9	10.3	10.3	10.2
55°	7.3	7.3	7.7	9.2	9.7	10.0	10.3	10.5	10.7	10.7	10.9
52.5°	7.3	7.3	7.9	9.5	10.0	10.3	10.9	11.1	11.1	11.4	11.6
50°	7.3	7.3	8.1	9.9	10.3	10.8	11.5	11.8	11.7	12.0	13.4
47.5°	7.3	7.3	8.2	10.2	10.6	11.3	12.1	12.5	12.2	12.6	15.2
45°	7.3	7.3	8.4	10.4	10.8	11.8	12.8	13.3	13.1	14.1	16.9
42.5°	7.3	7.3	8.5	10.6	11.1	12.3	13.5	14.2	14.1	15.5	18.7
40°	7.3	7.3	8.6	10.7	11.4	12.9	14.3	15.1	15.4	16.9	20.2
37.5°	7.3	7.3	8.7	10.7	11.8	13.4	15.1	16.2	17.1	18.8	21.5
35°	7.3	7.3	8.8	10.7	12.3	14.0	16.0	17.2	18.7	20.9	22.3
32.5°	7.3	7.3	8.9	10.8	12.7	14.7	16.9	18.4	20.4	23.2	24.8
30°	7.3	7.3	8.9	10.8	13.1	15.4	17.8	19.6	22.0	25.7	27.6
27.5°	7.3	7.3	9.0	10.8	13.2	16.1	18.8	20.9	23.7	28.3	30.7
25°	7.3	7.3	9.0	10.8	13.2	16.8	19.7	22.3	25.8	31.0	34.1
22.5°	7.3	7.3	9.1	10.8	13.2	17.3	20.7	23.6	28.0	33.8	39.4
20°	7.3	7.3	9.1	10.8	13.2	17.2	21.7	24.8	30.3	36.7	45.0
17.5°	7.3	7.3	9.1	10.7	13.1	17.1	21.8	26.0	32.5	39.7	50.9
15°	7.3	7.3	9.1	10.7	13.0	16.9	21.4	26.5	34.7	42.8	57.0
12.5°	7.3	7.3	9.0	10.7	12.8	16.7	20.9	26.1	35.7	45.8	63.3
10°	7.3	7.3	9.0	10.6	12.6	16.4	20.4	25.7	35.7	47.3	69.2
7.5°	7.3	7.3	9.0	10.5	12.4	16.0	19.8	25.3	35.5	48.5	74.7
5°	7.3	7.3	8.9	10.5	12.2	15.6	19.1	24.7	35.1	49.6	80.1
2.5°	7.3	7.3	8.9	10.4	12.0	15.2	18.4	24.2	34.5	50.6	85.1
0°	7.3	7.3	8.8	10.3	11.7	14.7	17.6	23.5	33.8	51.4	89.6
-2.5°	7.3	7.3	8.8	10.3	11.8	14.8	18.4	26.0	39.8	61.5	103.5
-5°	7.3	7.4	8.8	10.3	11.9	15.0	19.1	28.3	45.5	71.2	116.5
-7.5°	7.3	7.4	8.8	10.3	12.0	15.0	19.7	30.4	50.7	80.0	128.3
-10°	7.3	7.4	8.8	10.2	12.1	15.1	20.2	32.2	55.3	88.0	138.7
-12.5°	7.3	7.5	8.7	10.2	12.2	15.1	20.7	33.7	59.0	95.0	148.6
-15°	7.3	7.5	8.7	10.1	12.2	15.1	20.9	34.7	62.8	102.3	157.2
-17.5°	7.3	7.5	8.7	10.1	12.2	15.1	21.0	36.4	66.9	108.4	163.9
-20°	7.3	7.5	8.7	10.0	12.1	15.0	21.3	38.3	69.8	113.1	168.6



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-1S-CV5-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.3	7.6	8.7	10.0	12.1	14.9	21.9	39.3	71.5	116.4	171.1
-25°	7.3	7.6	8.6	9.9	12.0	15.1	22.2	39.5	71.9	118.2	171.3
-27.5°	7.3	7.6	8.6	9.8	11.8	15.2	22.0	38.6	70.9	118.6	172.7
-30°	7.3	7.6	8.6	9.7	11.7	15.3	21.4	36.8	69.6	117.2	172.3
-32.5°	7.3	7.6	8.6	9.6	11.6	15.3	20.5	35.7	67.4	113.9	169.8
-35°	7.3	7.7	8.6	9.5	11.6	15.2	20.0	34.5	63.8	108.6	165.3
-37.5°	7.3	7.7	8.6	9.4	11.5	15.0	19.9	32.7	58.6	101.3	152.8
-40°	7.3	7.7	8.5	9.2	11.3	14.9	19.6	30.2	51.9	93.5	138.4
-42.5°	7.3	7.7	8.5	9.2	11.2	14.7	19.2	27.0	46.8	82.0	122.6
-45°	7.3	7.7	8.5	9.1	11.2	14.4	18.6	24.5	42.4	69.2	105.7
-47.5°	7.3	7.7	8.5	9.1	11.1	14.1	17.9	23.6	37.0	55.6	90.3
-50°	7.3	7.7	8.5	9.1	11.0	13.7	17.4	22.6	30.2	47.8	73.8
-52.5°	7.3	7.7	8.6	9.2	10.9	13.3	16.9	21.4	26.8	39.6	57.2
-55°	7.3	7.7	8.6	9.2	10.8	13.0	16.3	20.1	24.9	31.0	47.4
-57.5°	7.3	7.6	8.6	9.2	10.6	12.8	15.6	19.3	22.9	27.3	37.1
-60°	7.3	7.6	8.6	9.2	10.4	12.5	14.9	18.2	21.0	25.0	29.0
-62.5°	7.3	7.6	8.5	9.2	10.3	12.2	14.5	17.2	19.8	22.6	26.4
-65°	7.3	7.6	8.4	9.2	10.2	11.8	14.0	16.2	18.5	21.0	23.7
-67.5°	7.3	7.6	8.4	9.2	10.1	11.5	13.5	15.4	17.2	19.5	21.8
-70°	7.3	7.5	8.3	9.1	9.9	11.2	12.9	14.7	16.3	18.0	20.1
-72.5°	7.3	7.5	8.2	9.0	9.7	10.8	12.3	13.9	15.5	17.0	18.6
-75°	7.3	7.5	8.0	8.8	9.5	10.4	11.7	13.1	14.6	16.0	17.4
-77.5°	7.3	7.5	7.9	8.6	9.3	10.0	11.0	12.2	13.4	14.8	16.2
-80°	7.3	7.4	7.8	8.4	9.1	9.7	10.4	11.3	12.3	13.4	14.6
-82.5°	7.3	7.4	7.7	8.3	8.8	9.4	9.9	10.4	11.1	11.9	12.8
-85°	7.3	7.4	7.6	8.1	8.6	9.1	9.6	9.9	10.3	10.7	11.2
-87.5°	7.3	7.3	7.4	7.9	8.3	8.7	9.2	9.4	9.6	9.8	10.0
-90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3





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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°	8.8	8.8	8.8	8.8	9.2	9.6	9.9	10.3	10.3	10.3	10.3
87.5°	7.0	6.6	6.3	5.9	5.5	5.2	4.8	4.4	4.4	4.4	4.4
85°	7.0	6.6	6.3	5.9	5.6	5.4	5.2	5.0	4.9	4.8	4.6
82.5°	7.0	6.6	6.3	5.9	5.8	5.8	5.9	5.9	5.6	5.2	4.8
80°	7.0	6.7	6.4	6.3	6.4	6.3	6.2	6.0	5.6	5.3	5.1
77.5°	7.1	7.0	7.0	7.1	7.0	6.8	6.7	6.7	6.6	6.4	6.3
75°	7.2	7.3	7.4	7.4	7.2	7.2	7.3	7.3	7.2	7.1	7.1
72.5°	7.5	7.7	7.7	7.5	7.3	7.3	7.3	7.3	8.2	9.5	10.7
70°	8.2	8.2	7.9	7.5	7.3	7.7	9.4	11.4	13.4	15.4	18.0
67.5°	8.7	8.3	8.0	7.9	9.0	10.9	13.2	18.6	25.2	27.9	29.0
65°	8.8	8.4	8.8	9.9	11.5	15.4	21.3	29.0	37.1	38.6	37.7
62.5°	8.9	9.2	10.2	12.2	15.5	20.7	28.2	36.6	45.9	46.1	40.3
60°	9.5	10.1	12.3	15.7	19.5	25.3	33.8	40.4	47.2	50.0	38.2
57.5°	10.3	11.8	15.3	19.4	24.1	28.3	33.0	39.3	42.1	41.9	30.9
55°	11.6	14.2	18.5	23.6	27.1	26.2	29.4	31.5	32.0	29.8	21.5
52.5°	13.9	16.9	22.3	26.7	27.4	24.7	23.0	24.1	22.6	19.3	16.8
50°	16.1	20.5	25.8	28.6	27.1	22.2	18.3	18.4	17.4	15.9	14.3
47.5°	18.6	23.6	28.7	29.9	24.8	21.2	17.7	16.4	15.7	15.0	13.7
45°	21.0	25.9	31.3	28.0	24.0	21.9	19.2	16.1	16.1	15.7	15.6
42.5°	23.1	27.6	29.8	26.2	25.7	24.1	21.8	18.9	17.7	18.4	18.8
40°	24.3	28.9	28.6	28.7	28.2	27.3	25.7	23.4	20.9	22.6	23.4
37.5°	25.2	28.7	29.5	32.8	31.8	31.5	30.3	30.6	29.0	28.1	31.5
35°	25.8	29.4	34.5	38.3	37.8	36.5	38.4	39.6	39.0	37.8	43.3
32.5°	26.5	30.9	40.7	44.8	46.3	45.4	47.9	50.1	52.5	55.4	64.3
30°	29.4	36.6	47.7	52.1	56.7	62.0	60.8	62.6	69.1	90.0	109.4
27.5°	35.0	44.0	54.7	61.9	70.1	82.4	85.1	81.9	101.9	135.1	169.8
25°	41.4	66.2	62.3	73.5	89.9	106.9	116.1	123.2	150.6	199.2	235.5
22.5°	54.0	95.6	94.9	86.3	112.3	135.2	157.2	205.9	275.0	297.2	304.3
20°	75.5	124.9	134.1	137.0	145.9	166.8	204.2	318.7	456.9	508.9	453.2
17.5°	100.9	157.0	177.3	199.6	226.8	233.1	264.9	454.4	683.2	761.5	761.7
15°	129.3	191.3	223.2	268.3	313.1	341.5	447.0	676.0	928.1	1052.1	1122.9
12.5°	159.6	227.4	271.1	341.7	403.7	453.4	683.8	1048.9	1283.4	1391.6	1598.1
10°	191.0	264.5	320.3	418.3	497.2	567.5	950.0	1446.8	1675.2	1781.2	2017.1
7.5°	222.2	299.1	368.3	496.4	592.1	682.5	1233.5	1857.9	2053.3	2147.7	2340.0
5°	252.2	329.7	406.3	555.6	667.1	776.7	1490.6	2267.5	2419.6	2495.8	2604.3
2.5°	279.9	358.8	442.7	608.9	727.4	836.2	1602.4	2447.2	2614.2	2728.6	2821.0
0°	303.9	386.1	477.1	657.7	784.0	891.2	1683.9	2595.6	2771.8	2908.4	3019.9
-2.5°	305.0	391.8	488.4	655.7	771.4	882.4	1606.0	2562.1	2825.9	3030.8	3198.0
-5°	302.2	395.2	496.7	649.4	755.7	869.1	1503.5	2481.6	2836.9	3055.0	3225.9
-7.5°	296.2	396.1	501.6	638.0	732.6	835.6	1413.9	2317.3	2708.6	2895.5	3076.9
-10°	288.2	393.8	494.4	611.4	699.2	789.6	1300.0	2126.2	2577.2	2737.7	2906.2
-12.5°	281.4	389.2	483.7	585.3	665.4	742.3	1150.9	1916.1	2446.9	2586.7	2721.2
-15°	273.4	383.2	471.8	560.8	631.8	694.6	964.8	1693.7	2319.6	2476.5	2580.6
-17.5°	264.8	375.8	458.8	539.4	599.3	647.3	744.5	1426.4	2107.6	2346.8	2468.6
-20°	256.3	367.4	445.2	522.1	568.7	613.9	679.0	1154.2	1777.0	2190.3	2345.7



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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°	248.3	358.0	431.9	504.4	552.3	592.5	644.5	889.2	1427.8	2013.2	2200.7
-25°	245.4	343.5	418.9	487.4	540.2	572.1	609.0	666.7	1105.4	1661.7	2037.7
-27.5°	244.5	331.5	403.5	469.3	530.6	554.8	583.1	627.1	851.8	1301.2	1836.8
-30°	240.7	314.3	386.6	450.5	512.2	545.1	562.9	597.6	657.9	1003.1	1442.6
-32.5°	229.5	295.9	366.5	430.3	490.3	539.3	552.9	582.2	626.6	725.4	1082.0
-35°	215.6	278.6	344.7	408.5	467.9	522.4	552.9	570.1	599.8	646.9	807.1
-37.5°	202.5	260.0	322.1	384.7	442.7	497.9	551.0	566.3	586.2	619.8	680.9
-40°	187.2	240.1	300.0	359.4	415.5	470.1	522.4	566.9	578.9	612.8	655.5
-42.5°	169.8	220.9	277.0	332.7	385.1	438.6	491.3	541.1	587.7	611.0	644.0
-45°	150.6	199.3	252.9	302.7	351.6	403.9	455.4	507.1	567.3	621.4	643.6
-47.5°	129.9	175.6	225.7	270.4	316.1	364.6	416.1	470.6	531.1	591.1	653.0
-50°	108.6	150.8	194.3	236.7	278.6	323.1	370.5	427.9	485.7	545.6	605.6
-52.5°	89.0	124.3	163.3	202.3	240.8	279.9	325.3	377.2	433.0	490.4	543.7
-55°	68.2	99.8	131.5	167.5	203.5	238.3	278.5	325.3	373.6	426.5	474.8
-57.5°	53.0	75.1	102.4	131.8	165.1	198.7	235.3	272.8	315.7	360.2	400.1
-60°	41.0	55.3	75.1	99.8	125.3	157.2	191.6	225.8	260.4	293.1	327.2
-62.5°	30.2	41.5	54.0	69.9	92.0	115.7	145.0	176.3	207.9	235.6	260.5
-65°	27.2	30.3	39.1	50.1	60.6	81.4	103.5	125.7	152.8	177.2	199.8
-67.5°	24.1	27.0	29.8	34.1	43.9	54.8	66.1	85.5	104.8	121.6	138.5
-70°	22.1	23.8	26.1	28.6	31.2	36.2	45.8	55.7	65.6	77.4	92.1
-72.5°	20.2	21.7	23.2	24.7	27.0	29.7	32.4	35.3	41.1	49.0	57.1
-75°	18.5	19.6	21.0	22.3	23.7	25.3	27.1	29.5	31.8	33.8	35.6
-77.5°	17.1	17.9	18.8	19.9	21.0	22.2	23.5	24.9	26.3	27.8	29.5
-80°	15.4	16.1	16.7	17.4	18.1	19.0	19.9	20.9	21.6	22.4	23.3
-82.5°	13.4	13.9	14.4	14.9	15.3	15.8	16.2	16.8	17.1	17.4	17.7
-85°	11.5	11.7	12.0	12.3	12.7	13.0	13.2	13.5	13.4	13.4	13.2
-87.5°	10.1	10.2	10.4	10.5	10.7	10.9	11.1	11.3	11.1	10.8	10.6
-90°	7.0	6.6	6.3	5.9	5.5	5.2	4.8	4.4	4.4	4.4	4.4



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	10.3	10.3	10.3	10.3	10.3	14.3	18.3	22.4	26.4	36.3	46.2
87.5°	4.4	4.0	3.7	3.3	2.9	2.6	2.2	1.9	1.5	1.5	1.5
85°	4.4	4.0	3.7	3.3	2.9	2.8	2.8	2.8	2.8	2.5	2.2
82.5°	4.4	4.2	4.1	4.0	4.0	3.8	3.5	3.2	2.9	2.6	2.2
80°	4.9	4.8	4.8	4.6	4.4	4.1	3.7	3.3	2.9	2.9	2.9
77.5°	6.1	5.9	5.5	5.0	4.5	4.3	4.2	4.1	4.1	3.9	3.6
75°	7.2	7.1	6.9	6.6	6.0	5.8	5.8	5.8	5.6	5.4	5.1
72.5°	11.6	11.8	11.3	10.8	10.0	9.6	9.7	9.6	9.4	9.3	9.1
70°	19.4	19.7	19.0	17.6	15.4	13.8	13.3	12.5	11.7	11.8	12.6
67.5°	28.1	26.1	24.1	21.7	18.5	16.1	15.0	13.7	12.3	11.6	11.4
65°	34.1	27.0	23.0	20.3	18.5	16.8	14.9	13.1	11.5	10.5	9.9
62.5°	32.5	23.0	18.9	16.9	15.5	14.3	12.4	10.7	9.2	8.2	8.2
60°	27.9	19.2	14.8	13.2	11.7	10.4	9.4	8.5	7.8	7.4	7.8
57.5°	21.8	15.1	11.6	11.0	10.3	9.3	8.7	8.4	7.9	7.3	7.8
55°	15.9	13.3	11.8	11.3	10.9	10.5	10.0	9.3	8.7	8.3	8.5
52.5°	13.8	13.0	12.9	12.7	11.9	11.0	10.2	10.1	9.9	9.8	9.9
50°	13.4	13.3	13.4	13.0	12.3	11.8	11.6	11.5	11.4	11.2	11.3
47.5°	13.8	14.0	13.9	13.3	13.1	13.3	13.2	13.1	13.3	13.5	13.7
45°	15.1	15.6	15.7	15.9	15.5	15.9	16.0	15.9	18.3	18.6	17.5
42.5°	18.3	20.3	21.7	21.2	19.4	23.2	29.0	31.6	29.0	25.2	22.8
40°	26.1	28.6	29.6	31.6	39.3	45.2	39.8	34.3	32.0	33.9	35.6
37.5°	36.5	39.8	49.1	60.9	56.6	46.1	47.2	47.7	46.6	49.7	50.1
35°	53.4	68.6	79.8	76.2	70.9	69.8	72.4	73.2	66.1	69.3	70.4
32.5°	85.7	104.0	104.9	100.2	102.8	103.3	110.5	105.7	99.6	102.6	110.8
30°	123.7	141.8	148.5	140.0	124.4	133.2	140.6	138.3	142.6	155.1	168.4
27.5°	183.0	194.8	205.8	188.8	157.9	171.5	176.7	171.4	200.6	216.4	247.6
25°	253.9	267.2	275.9	261.6	240.3	229.3	246.0	258.5	294.2	329.1	378.0
22.5°	331.0	366.9	377.2	340.0	340.0	339.8	346.3	388.8	436.9	513.7	642.7
20°	421.0	492.4	549.4	511.7	463.3	496.0	536.4	588.5	725.5	1074.1	1470.4
17.5°	739.8	689.9	794.8	798.3	728.6	805.0	950.2	1137.2	1715.5	3493.7	4659.3
15°	1258.9	1206.2	1140.9	1144.3	1213.0	1362.7	1660.0	2695.3	5249.6	9044.7	12966.8
12.5°	1788.8	1709.7	1613.6	1588.2	1738.3	2039.6	3442.2	7702.8	13717.0	20266.3	37066.7
10°	2207.0	2164.8	2076.2	2142.4	2393.2	3278.0	6146.6	13536.2	25946.6	47644.4	74417.4
7.5°	2452.3	2436.3	2460.2	2654.6	3063.3	5393.1	11700.1	22684.5	43135.1	76015.6	124249.6
5°	2698.6	2712.0	2784.5	3051.9	3575.1	6859.9	16513.3	31523.0	62456.6	110789.0	185482.7
2.5°	2971.6	2983.9	3081.3	3418.0	4016.7	7089.2	17658.8	37151.8	79189.5	142526.3	241537.9
0°	3285.7	3215.2	3244.6	3551.4	4169.5	8268.5	20379.1	40740.5	87642.7	155709.5	256696.0
-2.5°	3397.2	3246.5	3218.9	3478.0	4019.8	7327.4	18204.4	37884.8	80498.0	142649.4	239360.9
-5°	3321.5	3115.5	3033.1	3245.1	3759.4	6425.1	15307.0	34472.4	71469.8	122029.6	202825.0
-7.5°	3133.4	2935.9	2814.4	2973.9	3422.9	5294.4	11725.1	26104.9	52021.9	90288.6	144082.2
-10°	2971.9	2782.5	2597.4	2648.5	2959.5	3940.9	7299.4	17099.1	34370.1	60947.3	91603.4
-12.5°	2832.1	2673.5	2396.2	2311.9	2486.2	2946.8	5094.5	11654.6	21984.7	34573.3	56062.7
-15°	2687.5	2557.5	2280.6	2147.3	2209.4	2433.8	3015.5	5597.9	12037.8	20490.6	29748.0
-17.5°	2527.1	2437.9	2271.4	2074.5	1990.3	2080.5	2358.4	3155.8	5349.6	10617.5	16389.8
-20°	2418.4	2368.8	2246.6	2073.7	1965.5	1923.8	2020.2	2264.4	2803.2	4822.2	7309.0



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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°	2282.3	2261.7	2179.2	2129.7	2050.6	1961.2	1876.6	1952.3	2131.1	2406.3	3265.6
-25°	2153.5	2158.5	2163.9	2229.0	2216.3	2091.4	1931.0	1816.1	1876.3	1962.6	2136.5
-27.5°	2011.0	2081.8	2191.6	2314.1	2371.0	2265.3	2076.3	1904.2	1852.9	1802.5	1876.0
-30°	1885.8	2029.9	2147.5	2297.2	2395.4	2363.8	2266.4	2150.4	2024.7	1937.3	1908.6
-32.5°	1562.8	1962.2	2071.0	2191.3	2337.9	2384.5	2373.4	2328.9	2275.1	2213.5	2149.7
-35°	1214.6	1657.9	2022.7	2091.9	2187.8	2326.0	2434.8	2442.4	2435.4	2412.8	2395.7
-37.5°	857.8	1279.8	1664.1	1972.6	2087.5	2179.6	2346.2	2473.6	2546.1	2540.4	2542.1
-40°	712.3	828.5	1215.1	1571.7	1836.0	2082.4	2215.3	2382.0	2514.5	2568.5	2609.7
-42.5°	687.2	732.2	778.4	1045.9	1386.1	1684.3	1913.6	2125.2	2312.3	2445.6	2551.6
-45°	669.4	700.0	735.0	779.4	827.3	1093.6	1389.9	1665.3	1845.4	2025.4	2213.4
-47.5°	668.7	676.2	701.0	732.3	762.7	805.9	855.4	922.7	1121.9	1302.8	1493.8
-50°	648.7	679.0	687.3	696.9	716.4	740.1	763.4	787.6	810.4	824.7	844.1
-52.5°	589.8	628.9	665.4	694.0	701.4	708.6	715.4	731.0	746.2	758.8	773.2
-55°	518.5	559.9	600.2	633.1	662.6	690.4	711.3	714.7	719.3	724.8	733.6
-57.5°	441.4	481.6	519.8	554.2	586.5	616.7	638.3	654.4	669.5	683.8	702.4
-60°	362.1	397.6	432.5	465.7	497.6	527.9	547.9	564.3	578.5	592.6	611.7
-62.5°	284.3	311.6	343.1	373.1	400.8	426.8	447.5	465.1	479.7	494.4	512.1
-65°	221.1	241.3	264.7	286.6	307.1	331.2	353.5	371.9	386.5	401.0	416.9
-67.5°	157.8	176.6	198.4	218.7	237.8	256.2	274.9	292.5	308.9	325.4	341.8
-70°	105.4	118.7	134.5	151.8	169.7	186.4	202.4	217.8	232.4	247.1	261.2
-72.5°	65.4	73.6	82.4	94.0	106.0	117.6	129.1	140.5	151.7	164.9	178.0
-75°	37.3	40.6	47.3	53.7	59.7	65.4	70.3	74.5	78.0	85.7	94.3
-77.5°	31.2	32.9	34.7	36.5	38.2	40.6	43.3	46.0	48.8	55.1	62.0
-80°	24.4	25.5	26.7	28.0	29.3	31.1	33.0	34.8	36.5	41.1	45.9
-82.5°	18.0	18.6	19.1	19.5	19.9	21.3	22.8	24.2	25.6	29.4	33.3
-85°	13.1	13.3	13.5	13.7	13.9	15.1	16.3	17.6	18.8	22.5	26.3
-87.5°	10.3	10.3	10.3	10.3	10.3	11.6	12.8	14.0	15.1	19.1	23.1
-90°	4.4	4.0	3.7	3.3	2.9	2.6	2.2	1.9	1.5	1.5	1.5



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	56.2	66.1	55.8	45.5	55.8	66.1	56.2	46.2	36.3	26.4	22.4
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9
85°	1.8	1.5	1.5	1.5	1.5	1.5	1.8	2.2	2.5	2.8	2.8
82.5°	1.9	1.5	2.2	2.9	2.2	1.5	1.9	2.2	2.6	2.9	3.2
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.3
77.5°	3.3	2.9	2.9	2.9	2.9	2.9	3.3	3.6	3.9	4.1	4.1
75°	4.7	4.4	4.4	4.4	4.4	4.4	4.7	5.1	5.4	5.6	5.8
72.5°	9.0	8.7	8.8	8.8	8.8	8.7	9.0	9.1	9.3	9.4	9.6
70°	13.5	14.4	14.7	14.7	14.7	14.4	13.5	12.6	11.8	11.7	12.5
67.5°	11.0	10.5	10.3	10.3	10.3	10.5	11.0	11.4	11.6	12.3	13.7
65°	9.4	8.9	8.8	8.8	8.8	8.9	9.4	9.9	10.5	11.5	13.1
62.5°	8.4	8.7	8.8	8.8	8.8	8.7	8.4	8.2	8.2	9.2	10.7
60°	8.3	8.7	8.8	8.8	8.8	8.7	8.3	7.8	7.4	7.8	8.5
57.5°	8.2	8.7	8.8	8.8	8.8	8.7	8.2	7.8	7.3	7.9	8.4
55°	8.7	8.8	9.4	10.3	9.4	8.8	8.7	8.5	8.3	8.7	9.3
52.5°	10.1	10.2	10.3	10.3	10.3	10.2	10.1	9.9	9.8	9.9	10.1
50°	11.5	11.6	11.7	11.7	11.7	11.6	11.5	11.3	11.2	11.4	11.5
47.5°	14.2	14.5	14.6	14.7	14.6	14.5	14.2	13.7	13.5	13.3	13.1
45°	17.7	17.6	17.5	17.6	17.5	17.6	17.7	17.5	18.6	18.3	15.9
42.5°	23.6	24.3	24.8	25.0	24.8	24.3	23.6	22.8	25.2	29.0	31.6
40°	37.4	37.9	37.5	36.7	37.5	37.9	37.4	35.6	33.9	32.0	34.3
37.5°	50.7	51.8	52.5	52.9	52.5	51.8	50.7	50.1	49.7	46.6	47.7
35°	71.2	72.0	71.5	73.4	71.5	72.0	71.2	70.4	69.3	66.1	73.2
32.5°	116.1	116.7	113.0	114.5	113.0	116.7	116.1	110.8	102.6	99.6	105.7
30°	177.8	185.9	190.8	196.7	190.8	185.9	177.8	168.4	155.1	142.6	138.3
27.5°	270.6	290.5	303.6	311.2	303.6	290.5	270.6	247.6	216.4	200.6	171.4
25°	422.5	452.9	469.2	481.5	469.2	452.9	422.5	378.0	329.1	294.2	258.5
22.5°	820.5	936.6	1001.5	1062.9	1001.5	936.6	820.5	642.7	513.7	436.9	388.8
20°	2104.0	2239.6	2494.9	2652.9	2494.9	2239.6	2104.0	1470.4	1074.1	725.5	588.5
17.5°	7087.9	9036.4	9400.2	9675.0	9400.2	9036.4	7087.9	4659.3	3493.7	1715.5	1137.2
15°	21107.8	26890.9	28447.3	29772.1	28447.3	26890.9	21107.8	12966.8	9044.7	5249.6	2695.3
12.5°	50963.3	66880.0	75537.3	82114.5	75537.3	66880.0	50963.3	37066.7	20266.3	13717.0	7702.8
10°	106775.5	137936.8	161588.3	175285.5	161588.3	137936.8	106775.5	74417.4	47644.4	25946.6	13536.2
7.5°	181834.4	234650.3	265524.1	281239.5	265524.1	234650.3	181834.4	124249.6	76015.6	43135.1	22684.5
5°	274257.4	342437.2	385525.3	409218.2	385525.3	342437.2	274257.4	185482.7	110789.0	62456.6	31523.0
2.5°	342573.6	430041.8	494629.4	525010.1	494629.4	430041.8	342573.6	241537.9	142526.3	79189.5	37151.8
0°	367309.9	459077.3	532910.8	577142.5	532910.8	459077.3	367309.9	256696.0	155709.5	87642.7	40740.5
-2.5°	343696.0	429845.8	487352.0	514112.2	487352.0	429845.8	343696.0	239360.9	142649.4	80498.0	37884.8
-5°	292264.6	366747.3	408072.5	425565.8	408072.5	366747.3	292264.6	202825.0	122029.6	71469.8	34472.4
-7.5°	207356.6	264172.3	293217.6	310448.6	293217.6	264172.3	207356.6	144082.2	90288.6	52021.9	26104.9
-10°	130551.0	162490.6	190274.1	202842.2	190274.1	162490.6	130551.0	91603.4	60947.3	34370.1	17099.1
-12.5°	75817.2	96038.6	112295.1	119200.8	112295.1	96038.6	75817.2	56062.7	34573.3	21984.7	11654.6
-15°	41898.8	52949.2	60433.7	63361.4	60433.7	52949.2	41898.8	29748.0	20490.6	12037.8	5597.9
-17.5°	23298.9	28661.2	30788.5	34200.0	30788.5	28661.2	23298.9	16389.8	10617.5	5349.6	3155.8
-20°	11414.4	14194.8	15086.4	17492.7	15086.4	14194.8	11414.4	7309.0	4822.2	2803.2	2264.4



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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°	4433.8	5090.0	5236.3	6377.5	5236.3	5090.0	4433.8	3265.6	2406.3	2131.1	1952.3
-25°	2302.6	2413.2	2464.6	2598.6	2464.6	2413.2	2302.6	2136.5	1962.6	1876.3	1816.1
-27.5°	1935.6	1989.2	2032.0	2096.5	2032.0	1989.2	1935.6	1876.0	1802.5	1852.9	1904.2
-30°	1886.5	1877.1	1878.3	1885.1	1878.3	1877.1	1886.5	1908.6	1937.3	2024.7	2150.4
-32.5°	2098.9	2066.3	2050.2	1989.3	2050.2	2066.3	2098.9	2149.7	2213.5	2275.1	2328.9
-35°	2385.3	2382.6	2384.7	2356.3	2384.7	2382.6	2385.3	2395.7	2412.8	2435.4	2442.4
-37.5°	2542.8	2547.4	2553.0	2544.3	2553.0	2547.4	2542.8	2542.1	2540.4	2546.1	2473.6
-40°	2624.0	2637.3	2646.6	2644.1	2646.6	2637.3	2624.0	2609.7	2568.5	2514.5	2382.0
-42.5°	2604.4	2637.2	2653.4	2658.8	2653.4	2637.2	2604.4	2551.6	2445.6	2312.3	2125.2
-45°	2385.4	2519.1	2599.7	2622.1	2599.7	2519.1	2385.4	2213.4	2025.4	1845.4	1665.3
-47.5°	1708.8	1906.6	2092.1	2255.0	2092.1	1906.6	1708.8	1493.8	1302.8	1121.9	922.7
-50°	868.3	890.6	936.3	1002.7	936.3	890.6	868.3	844.1	824.7	810.4	787.6
-52.5°	787.4	800.3	813.0	825.1	813.0	800.3	787.4	773.2	758.8	746.2	731.0
-55°	741.9	749.8	755.8	760.5	755.8	749.8	741.9	733.6	724.8	719.3	714.7
-57.5°	718.2	731.4	742.7	751.7	742.7	731.4	718.2	702.4	683.8	669.5	654.4
-60°	628.6	643.0	656.5	668.0	656.5	643.0	628.6	611.7	592.6	578.5	564.3
-62.5°	527.3	540.0	553.3	565.2	553.3	540.0	527.3	512.1	494.4	479.7	465.1
-65°	430.9	443.3	454.3	463.9	454.3	443.3	430.9	416.9	401.0	386.5	371.9
-67.5°	357.1	371.1	385.1	397.9	385.1	371.1	357.1	341.8	325.4	308.9	292.5
-70°	274.0	285.5	295.4	303.9	295.4	285.5	274.0	261.2	247.1	232.4	217.8
-72.5°	190.0	200.8	213.2	224.6	213.2	200.8	190.0	178.0	164.9	151.7	140.5
-75°	102.5	110.3	117.7	124.8	117.7	110.3	102.5	94.3	85.7	78.0	74.5
-77.5°	68.8	75.6	80.5	85.2	80.5	75.6	68.8	62.0	55.1	48.8	46.0
-80°	50.7	55.4	59.3	63.1	59.3	55.4	50.7	45.9	41.1	36.5	34.8
-82.5°	37.1	41.0	44.0	47.0	44.0	41.0	37.1	33.3	29.4	25.6	24.2
-85°	30.0	33.7	36.7	39.6	36.7	33.7	30.0	26.3	22.5	18.8	17.6
-87.5°	27.0	30.9	33.0	35.2	33.0	30.9	27.0	23.1	19.1	15.1	14.0
-90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	18.3	14.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
87.5°	2.2	2.6	2.9	3.3	3.7	4.0	4.4	4.4	4.4	4.4	4.4
85°	2.8	2.8	2.9	3.3	3.7	4.0	4.4	4.6	4.8	4.9	5.0
82.5°	3.5	3.8	4.0	4.0	4.1	4.2	4.4	4.8	5.2	5.6	5.9
80°	3.7	4.1	4.4	4.6	4.8	4.8	4.9	5.1	5.3	5.6	6.0
77.5°	4.2	4.3	4.5	5.0	5.5	5.9	6.1	6.3	6.4	6.6	6.7
75°	5.8	5.8	6.0	6.6	6.9	7.1	7.2	7.1	7.1	7.2	7.3
72.5°	9.7	9.6	10.0	10.8	11.3	11.8	11.6	10.7	9.5	8.2	7.3
70°	13.3	13.8	15.4	17.6	19.0	19.7	19.4	18.0	15.4	13.4	11.4
67.5°	15.0	16.1	18.5	21.7	24.1	26.1	28.1	29.0	27.9	25.2	18.6
65°	14.9	16.8	18.5	20.3	23.0	27.0	34.1	37.7	38.6	37.1	29.0
62.5°	12.4	14.3	15.5	16.9	18.9	23.0	32.5	40.3	46.1	45.9	36.6
60°	9.4	10.4	11.7	13.2	14.8	19.2	27.9	38.2	50.0	47.2	40.4
57.5°	8.7	9.3	10.3	11.0	11.6	15.1	21.8	30.9	41.9	42.1	39.3
55°	10.0	10.5	10.9	11.3	11.8	13.3	15.9	21.5	29.8	32.0	31.5
52.5°	10.2	11.0	11.9	12.7	12.9	13.0	13.8	16.8	19.3	22.6	24.1
50°	11.6	11.8	12.3	13.0	13.4	13.3	13.4	14.3	15.9	17.4	18.4
47.5°	13.2	13.3	13.1	13.3	13.9	14.0	13.8	13.7	15.0	15.7	16.4
45°	16.0	15.9	15.5	15.9	15.7	15.6	15.1	15.6	15.7	16.1	16.1
42.5°	29.0	23.2	19.4	21.2	21.7	20.3	18.3	18.8	18.4	17.7	18.9
40°	39.8	45.2	39.3	31.6	29.6	28.6	26.1	23.4	22.6	20.9	23.4
37.5°	47.2	46.1	56.6	60.9	49.1	39.8	36.5	31.5	28.1	29.0	30.6
35°	72.4	69.8	70.9	76.2	79.8	68.6	53.4	43.3	37.8	39.0	39.6
32.5°	110.5	103.3	102.8	100.2	104.9	104.0	85.7	64.3	55.4	52.5	50.1
30°	140.6	133.2	124.4	140.0	148.5	141.8	123.7	109.4	90.0	69.1	62.6
27.5°	176.7	171.5	157.9	188.8	205.8	194.8	183.0	169.8	135.1	101.9	81.9
25°	246.0	229.3	240.3	261.6	275.9	267.2	253.9	235.5	199.2	150.6	123.2
22.5°	346.3	339.8	340.0	340.0	377.2	366.9	331.0	304.3	297.2	275.0	205.9
20°	536.4	496.0	463.3	511.7	549.4	492.4	421.0	453.2	508.9	456.9	318.7
17.5°	950.2	805.0	728.6	798.3	794.8	689.9	739.8	761.7	761.5	683.2	454.4
15°	1660.0	1362.7	1213.0	1144.3	1140.9	1206.2	1258.9	1122.9	1052.1	928.1	676.0
12.5°	3442.2	2039.6	1738.3	1588.2	1613.6	1709.7	1788.8	1598.1	1391.6	1283.4	1048.9
10°	6146.6	3278.0	2393.2	2142.4	2076.2	2164.8	2207.0	2017.1	1781.2	1675.2	1446.8
7.5°	11700.1	5393.1	3063.3	2654.6	2460.2	2436.3	2452.3	2340.0	2147.7	2053.3	1857.9
5°	16513.3	6859.9	3575.1	3051.9	2784.5	2712.0	2698.6	2604.3	2495.8	2419.6	2267.5
2.5°	17658.8	7089.2	4016.7	3418.0	3081.3	2983.9	2971.6	2821.0	2728.6	2614.2	2447.2
0°	20379.1	8268.5	4169.5	3551.4	3244.6	3215.2	3285.7	3019.9	2908.4	2771.8	2595.6
-2.5°	18204.4	7327.4	4019.8	3478.0	3218.9	3246.5	3397.2	3198.0	3030.8	2825.9	2562.1
-5°	15307.0	6425.1	3759.4	3245.1	3033.1	3115.5	3321.5	3225.9	3055.0	2836.9	2481.6
-7.5°	11725.1	5294.4	3422.9	2973.9	2814.4	2935.9	3133.4	3076.9	2895.5	2708.6	2317.3
-10°	7299.4	3940.9	2959.5	2648.5	2597.4	2782.5	2971.9	2906.2	2737.7	2577.2	2126.2
-12.5°	5094.5	2946.8	2486.2	2311.9	2396.2	2673.5	2832.1	2721.2	2586.7	2446.9	1916.1
-15°	3015.5	2433.8	2209.4	2147.3	2280.6	2557.5	2687.5	2580.6	2476.5	2319.6	1693.7
-17.5°	2358.4	2080.5	1990.3	2074.5	2271.4	2437.9	2527.1	2468.6	2346.8	2107.6	1426.4
-20°	2020.2	1923.8	1965.5	2073.7	2246.6	2368.8	2418.4	2345.7	2190.3	1777.0	1154.2





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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°	1876.6	1961.2	2050.6	2129.7	2179.2	2261.7	2282.3	2200.7	2013.2	1427.8	889.2
-25°	1931.0	2091.4	2216.3	2229.0	2163.9	2158.5	2153.5	2037.7	1661.7	1105.4	666.7
-27.5°	2076.3	2265.3	2371.0	2314.1	2191.6	2081.8	2011.0	1836.8	1301.2	851.8	627.1
-30°	2266.4	2363.8	2395.4	2297.2	2147.5	2029.9	1885.8	1442.6	1003.1	657.9	597.6
-32.5°	2373.4	2384.5	2337.9	2191.3	2071.0	1962.2	1562.8	1082.0	725.4	626.6	582.2
-35°	2434.8	2326.0	2187.8	2091.9	2022.7	1657.9	1214.6	807.1	646.9	599.8	570.1
-37.5°	2346.2	2179.6	2087.5	1972.6	1664.1	1279.8	857.8	680.9	619.8	586.2	566.3
-40°	2215.3	2082.4	1836.0	1571.7	1215.1	828.5	712.3	655.5	612.8	578.9	566.9
-42.5°	1913.6	1684.3	1386.1	1045.9	778.4	732.2	687.2	644.0	611.0	587.7	541.1
-45°	1389.9	1093.6	827.3	779.4	735.0	700.0	669.4	643.6	621.4	567.3	507.1
-47.5°	855.4	805.9	762.7	732.3	701.0	676.2	668.7	653.0	591.1	531.1	470.6
-50°	763.4	740.1	716.4	696.9	687.3	679.0	648.7	605.6	545.6	485.7	427.9
-52.5°	715.4	708.6	701.4	694.0	665.4	628.9	589.8	543.7	490.4	433.0	377.2
-55°	711.3	690.4	662.6	633.1	600.2	559.9	518.5	474.8	426.5	373.6	325.3
-57.5°	638.3	616.7	586.5	554.2	519.8	481.6	441.4	400.1	360.2	315.7	272.8
-60°	547.9	527.9	497.6	465.7	432.5	397.6	362.1	327.2	293.1	260.4	225.8
-62.5°	447.5	426.8	400.8	373.1	343.1	311.6	284.3	260.5	235.6	207.9	176.3
-65°	353.5	331.2	307.1	286.6	264.7	241.3	221.1	199.8	177.2	152.8	125.7
-67.5°	274.9	256.2	237.8	218.7	198.4	176.6	157.8	138.5	121.6	104.8	85.5
-70°	202.4	186.4	169.7	151.8	134.5	118.7	105.4	92.1	77.4	65.6	55.7
-72.5°	129.1	117.6	106.0	94.0	82.4	73.6	65.4	57.1	49.0	41.1	35.3
-75°	70.3	65.4	59.7	53.7	47.3	40.6	37.3	35.6	33.8	31.8	29.5
-77.5°	43.3	40.6	38.2	36.5	34.7	32.9	31.2	29.5	27.8	26.3	24.9
-80°	33.0	31.1	29.3	28.0	26.7	25.5	24.4	23.3	22.4	21.6	20.9
-82.5°	22.8	21.3	19.9	19.5	19.1	18.6	18.0	17.7	17.4	17.1	16.8
-85°	16.3	15.1	13.9	13.7	13.5	13.3	13.1	13.2	13.4	13.4	13.5
-87.5°	12.8	11.6	10.3	10.3	10.3	10.3	10.3	10.6	10.8	11.1	11.3
-90°	2.2	2.6	2.9	3.3	3.7	4.0	4.4	4.4	4.4	4.4	4.4





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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°	9.9	9.6	9.2	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
87.5°	4.8	5.2	5.5	5.9	6.3	6.6	7.0	7.3	7.3	7.3	7.3
85°	5.2	5.4	5.6	5.9	6.3	6.6	7.0	7.3	7.3	7.3	7.3
82.5°	5.9	5.8	5.8	5.9	6.3	6.6	7.0	7.3	7.3	7.3	7.3
80°	6.2	6.3	6.4	6.3	6.4	6.7	7.0	7.3	7.3	7.3	7.3
77.5°	6.7	6.8	7.0	7.1	7.0	7.0	7.1	7.3	7.3	7.3	7.3
75°	7.3	7.2	7.2	7.4	7.4	7.3	7.2	7.4	7.4	7.3	7.3
72.5°	7.3	7.3	7.3	7.5	7.7	7.7	7.5	7.4	7.6	7.6	7.4
70°	9.4	7.7	7.3	7.5	7.9	8.2	8.2	8.0	7.9	7.9	7.8
67.5°	13.2	10.9	9.0	7.9	8.0	8.3	8.7	8.6	8.5	8.3	8.1
65°	21.3	15.4	11.5	9.9	8.8	8.4	8.8	9.1	9.0	8.8	8.5
62.5°	28.2	20.7	15.5	12.2	10.2	9.2	8.9	9.4	9.6	9.3	9.0
60°	33.8	25.3	19.5	15.7	12.3	10.1	9.5	9.6	9.9	9.8	9.4
57.5°	33.0	28.3	24.1	19.4	15.3	11.8	10.3	10.2	10.3	10.3	9.9
55°	29.4	26.2	27.1	23.6	18.5	14.2	11.6	10.9	10.7	10.7	10.5
52.5°	23.0	24.7	27.4	26.7	22.3	16.9	13.9	11.6	11.4	11.1	11.1
50°	18.3	22.2	27.1	28.6	25.8	20.5	16.1	13.4	12.0	11.7	11.8
47.5°	17.7	21.2	24.8	29.9	28.7	23.6	18.6	15.2	12.6	12.2	12.5
45°	19.2	21.9	24.0	28.0	31.3	25.9	21.0	16.9	14.1	13.1	13.3
42.5°	21.8	24.1	25.7	26.2	29.8	27.6	23.1	18.7	15.5	14.1	14.2
40°	25.7	27.3	28.2	28.7	28.6	28.9	24.3	20.2	16.9	15.4	15.1
37.5°	30.3	31.5	31.8	32.8	29.5	28.7	25.2	21.5	18.8	17.1	16.2
35°	38.4	36.5	37.8	38.3	34.5	29.4	25.8	22.3	20.9	18.7	17.2
32.5°	47.9	45.4	46.3	44.8	40.7	30.9	26.5	24.8	23.2	20.4	18.4
30°	60.8	62.0	56.7	52.1	47.7	36.6	29.4	27.6	25.7	22.0	19.6
27.5°	85.1	82.4	70.1	61.9	54.7	44.0	35.0	30.7	28.3	23.7	20.9
25°	116.1	106.9	89.9	73.5	62.3	66.2	41.4	34.1	31.0	25.8	22.3
22.5°	157.2	135.2	112.3	86.3	94.9	95.6	54.0	39.4	33.8	28.0	23.6
20°	204.2	166.8	145.9	137.0	134.1	124.9	75.5	45.0	36.7	30.3	24.8
17.5°	264.9	233.1	226.8	199.6	177.3	157.0	100.9	50.9	39.7	32.5	26.0
15°	447.0	341.5	313.1	268.3	223.2	191.3	129.3	57.0	42.8	34.7	26.5
12.5°	683.8	453.4	403.7	341.7	271.1	227.4	159.6	63.3	45.8	35.7	26.1
10°	950.0	567.5	497.2	418.3	320.3	264.5	191.0	69.2	47.3	35.7	25.7
7.5°	1233.5	682.5	592.1	496.4	368.3	299.1	222.2	74.7	48.5	35.5	25.3
5°	1490.6	776.7	667.1	555.6	406.3	329.7	252.2	80.1	49.6	35.1	24.7
2.5°	1602.4	836.2	727.4	608.9	442.7	358.8	279.9	85.1	50.6	34.5	24.2
0°	1683.9	891.2	784.0	657.7	477.1	386.1	303.9	89.6	51.4	33.8	23.5
-2.5°	1606.0	882.4	771.4	655.7	488.4	391.8	305.0	103.5	61.5	39.8	26.0
-5°	1503.5	869.1	755.7	649.4	496.7	395.2	302.2	116.5	71.2	45.5	28.3
-7.5°	1413.9	835.6	732.6	638.0	501.6	396.1	296.2	128.3	80.0	50.7	30.4
-10°	1300.0	789.6	699.2	611.4	494.4	393.8	288.2	138.7	88.0	55.3	32.2
-12.5°	1150.9	742.3	665.4	585.3	483.7	389.2	281.4	148.6	95.0	59.0	33.7
-15°	964.8	694.6	631.8	560.8	471.8	383.2	273.4	157.2	102.3	62.8	34.7
-17.5°	744.5	647.3	599.3	539.4	458.8	375.8	264.8	163.9	108.4	66.9	36.4
-20°	679.0	613.9	568.7	522.1	445.2	367.4	256.3	168.6	113.1	69.8	38.3



REPORT NUMBER: P701485 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-08-0640L-40-80-1S-CV5-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	644.5	592.5	552.3	504.4	431.9	358.0	248.3	171.1	116.4	71.5	39.3
-25°	609.0	572.1	540.2	487.4	418.9	343.5	245.4	171.3	118.2	71.9	39.5
-27.5°	583.1	554.8	530.6	469.3	403.5	331.5	244.5	172.7	118.6	70.9	38.6
-30°	562.9	545.1	512.2	450.5	386.6	314.3	240.7	172.3	117.2	69.6	36.8
-32.5°	552.9	539.3	490.3	430.3	366.5	295.9	229.5	169.8	113.9	67.4	35.7
-35°	552.9	522.4	467.9	408.5	344.7	278.6	215.6	165.3	108.6	63.8	34.5
-37.5°	551.0	497.9	442.7	384.7	322.1	260.0	202.5	152.8	101.3	58.6	32.7
-40°	522.4	470.1	415.5	359.4	300.0	240.1	187.2	138.4	93.5	51.9	30.2
-42.5°	491.3	438.6	385.1	332.7	277.0	220.9	169.8	122.6	82.0	46.8	27.0
-45°	455.4	403.9	351.6	302.7	252.9	199.3	150.6	105.7	69.2	42.4	24.5
-47.5°	416.1	364.6	316.1	270.4	225.7	175.6	129.9	90.3	55.6	37.0	23.6
-50°	370.5	323.1	278.6	236.7	194.3	150.8	108.6	73.8	47.8	30.2	22.6
-52.5°	325.3	279.9	240.8	202.3	163.3	124.3	89.0	57.2	39.6	26.8	21.4
-55°	278.5	238.3	203.5	167.5	131.5	99.8	68.2	47.4	31.0	24.9	20.1
-57.5°	235.3	198.7	165.1	131.8	102.4	75.1	53.0	37.1	27.3	22.9	19.3
-60°	191.6	157.2	125.3	99.8	75.1	55.3	41.0	29.0	25.0	21.0	18.2
-62.5°	145.0	115.7	92.0	69.9	54.0	41.5	30.2	26.4	22.6	19.8	17.2
-65°	103.5	81.4	60.6	50.1	39.1	30.3	27.2	23.7	21.0	18.5	16.2
-67.5°	66.1	54.8	43.9	34.1	29.8	27.0	24.1	21.8	19.5	17.2	15.4
-70°	45.8	36.2	31.2	28.6	26.1	23.8	22.1	20.1	18.0	16.3	14.7
-72.5°	32.4	29.7	27.0	24.7	23.2	21.7	20.2	18.6	17.0	15.5	13.9
-75°	27.1	25.3	23.7	22.3	21.0	19.6	18.5	17.4	16.0	14.6	13.1
-77.5°	23.5	22.2	21.0	19.9	18.8	17.9	17.1	16.2	14.8	13.4	12.2
-80°	19.9	19.0	18.1	17.4	16.7	16.1	15.4	14.6	13.4	12.3	11.3
-82.5°	16.2	15.8	15.3	14.9	14.4	13.9	13.4	12.8	11.9	11.1	10.4
-85°	13.2	13.0	12.7	12.3	12.0	11.7	11.5	11.2	10.7	10.3	9.9
-87.5°	11.1	10.9	10.7	10.5	10.4	10.2	10.1	10.0	9.8	9.6	9.4
-90°	4.8	5.2	5.5	5.9	6.3	6.6	7.0	7.3	7.3	7.3	7.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	8.8	8.4	8.1	7.7	7.3	7.3	7.3
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3
85°	7.3	7.3	7.3	7.3	7.3	7.3	7.3
82.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3
80°	7.3	7.3	7.3	7.3	7.3	7.3	7.3
77.5°	7.3	7.4	7.3	7.3	7.3	7.3	7.3
75°	7.4	7.5	7.3	7.3	7.3	7.3	7.3
72.5°	7.5	7.8	7.6	7.3	7.3	7.3	7.3
70°	7.6	8.0	7.9	7.4	7.3	7.3	7.3
67.5°	8.0	8.2	8.2	7.7	7.3	7.3	7.3
65°	8.5	8.5	8.5	8.0	7.3	7.3	7.3
62.5°	8.9	8.9	8.8	8.3	7.3	7.3	7.3
60°	9.3	9.2	9.2	8.6	7.3	7.3	7.3
57.5°	9.8	9.6	9.5	8.9	7.5	7.3	7.3
55°	10.3	10.0	9.7	9.2	7.7	7.3	7.3
52.5°	10.9	10.3	10.0	9.5	7.9	7.3	7.3
50°	11.5	10.8	10.3	9.9	8.1	7.3	7.3
47.5°	12.1	11.3	10.6	10.2	8.2	7.3	7.3
45°	12.8	11.8	10.8	10.4	8.4	7.3	7.3
42.5°	13.5	12.3	11.1	10.6	8.5	7.3	7.3
40°	14.3	12.9	11.4	10.7	8.6	7.3	7.3
37.5°	15.1	13.4	11.8	10.7	8.7	7.3	7.3
35°	16.0	14.0	12.3	10.7	8.8	7.3	7.3
32.5°	16.9	14.7	12.7	10.8	8.9	7.3	7.3
30°	17.8	15.4	13.1	10.8	8.9	7.3	7.3
27.5°	18.8	16.1	13.2	10.8	9.0	7.3	7.3
25°	19.7	16.8	13.2	10.8	9.0	7.3	7.3
22.5°	20.7	17.3	13.2	10.8	9.1	7.3	7.3
20°	21.7	17.2	13.2	10.8	9.1	7.3	7.3
17.5°	21.8	17.1	13.1	10.7	9.1	7.3	7.3
15°	21.4	16.9	13.0	10.7	9.1	7.3	7.3
12.5°	20.9	16.7	12.8	10.7	9.0	7.3	7.3
10°	20.4	16.4	12.6	10.6	9.0	7.3	7.3
7.5°	19.8	16.0	12.4	10.5	9.0	7.3	7.3
5°	19.1	15.6	12.2	10.5	8.9	7.3	7.3
2.5°	18.4	15.2	12.0	10.4	8.9	7.3	7.3
0°	17.6	14.7	11.7	10.3	8.8	7.3	7.3
-2.5°	18.4	14.8	11.8	10.3	8.8	7.3	7.3
-5°	19.1	15.0	11.9	10.3	8.8	7.4	7.3
-7.5°	19.7	15.0	12.0	10.3	8.8	7.4	7.3
-10°	20.2	15.1	12.1	10.2	8.8	7.4	7.3
-12.5°	20.7	15.1	12.2	10.2	8.7	7.5	7.3
-15°	20.9	15.1	12.2	10.1	8.7	7.5	7.3
-17.5°	21.0	15.1	12.2	10.1	8.7	7.5	7.3
-20°	21.3	15.0	12.1	10.0	8.7	7.5	7.3



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 CATALOG NUMBER: EPH-LS-08-0640L-40-80-1S-CV5-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	21.9	14.9	12.1	10.0	8.7	7.6	7.3
-25°	22.2	15.1	12.0	9.9	8.6	7.6	7.3
-27.5°	22.0	15.2	11.8	9.8	8.6	7.6	7.3
-30°	21.4	15.3	11.7	9.7	8.6	7.6	7.3
-32.5°	20.5	15.3	11.6	9.6	8.6	7.6	7.3
-35°	20.0	15.2	11.6	9.5	8.6	7.7	7.3
-37.5°	19.9	15.0	11.5	9.4	8.6	7.7	7.3
-40°	19.6	14.9	11.3	9.2	8.5	7.7	7.3
-42.5°	19.2	14.7	11.2	9.2	8.5	7.7	7.3
-45°	18.6	14.4	11.2	9.1	8.5	7.7	7.3
-47.5°	17.9	14.1	11.1	9.1	8.5	7.7	7.3
-50°	17.4	13.7	11.0	9.1	8.5	7.7	7.3
-52.5°	16.9	13.3	10.9	9.2	8.6	7.7	7.3
-55°	16.3	13.0	10.8	9.2	8.6	7.7	7.3
-57.5°	15.6	12.8	10.6	9.2	8.6	7.6	7.3
-60°	14.9	12.5	10.4	9.2	8.6	7.6	7.3
-62.5°	14.5	12.2	10.3	9.2	8.5	7.6	7.3
-65°	14.0	11.8	10.2	9.2	8.4	7.6	7.3
-67.5°	13.5	11.5	10.1	9.2	8.4	7.6	7.3
-70°	12.9	11.2	9.9	9.1	8.3	7.5	7.3
-72.5°	12.3	10.8	9.7	9.0	8.2	7.5	7.3
-75°	11.7	10.4	9.5	8.8	8.0	7.5	7.3
-77.5°	11.0	10.0	9.3	8.6	7.9	7.5	7.3
-80°	10.4	9.7	9.1	8.4	7.8	7.4	7.3
-82.5°	9.9	9.4	8.8	8.3	7.7	7.4	7.3
-85°	9.6	9.1	8.6	8.1	7.6	7.4	7.3
-87.5°	9.2	8.7	8.3	7.9	7.4	7.3	7.3
-90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3

(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

