

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: P701358 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-80-5S-VHE-S**

Issue Date: 8/29/2023

**Test Information**

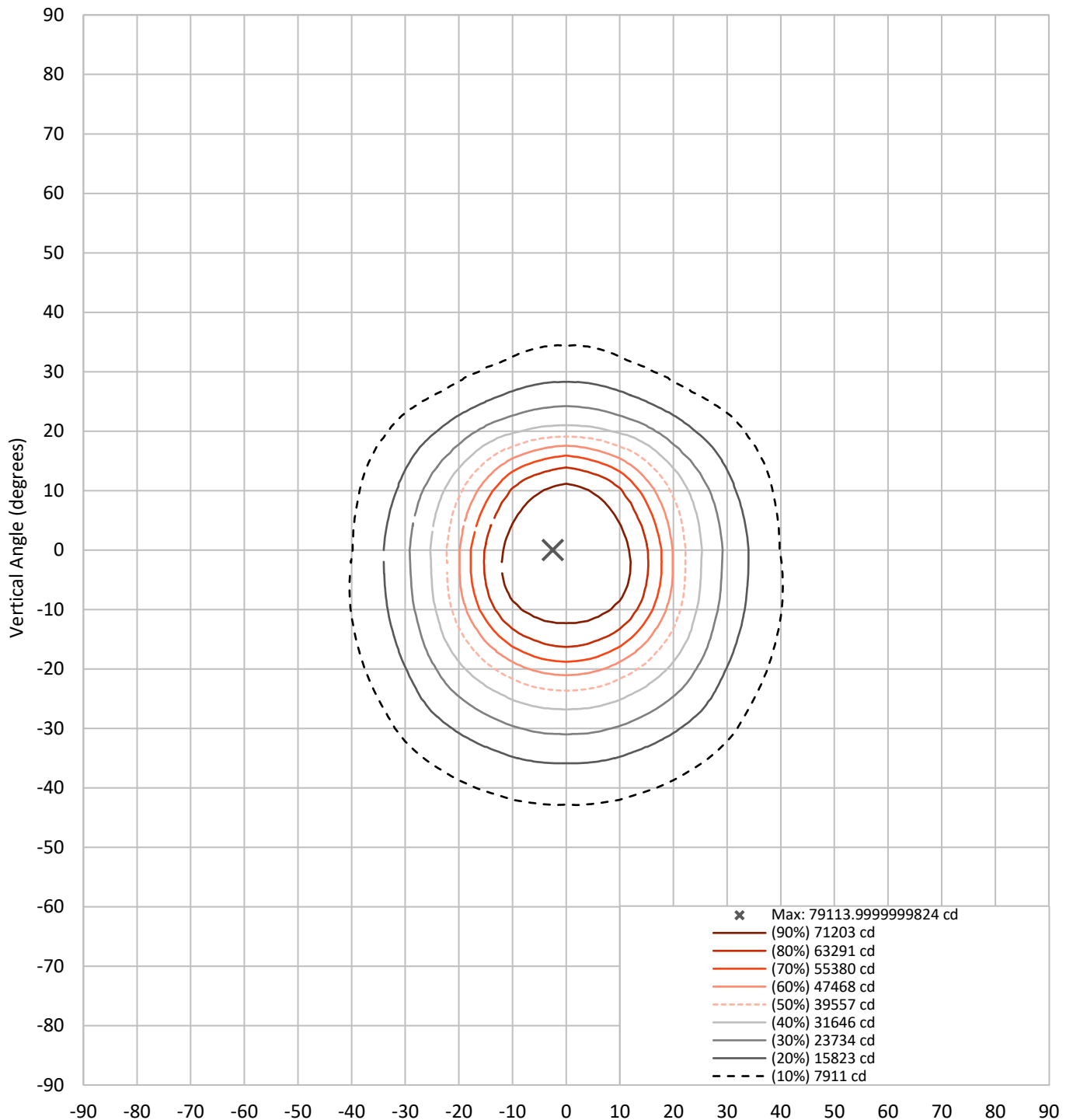
Test Method: LM-79-08  
Report Number: P701358 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320L-40-80-5S-VHE-S  
Description: EPHESUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	51513.9 lumens	Max Intensity:	79114 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	149.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	28286 lumens	Field Lumens:	47335 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%
Input Watts (W):	344.2		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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CATALOG NUMBER: EPH-LS-08-0320L-40-80-5S-VHE-S

### Iso-Candela Plot





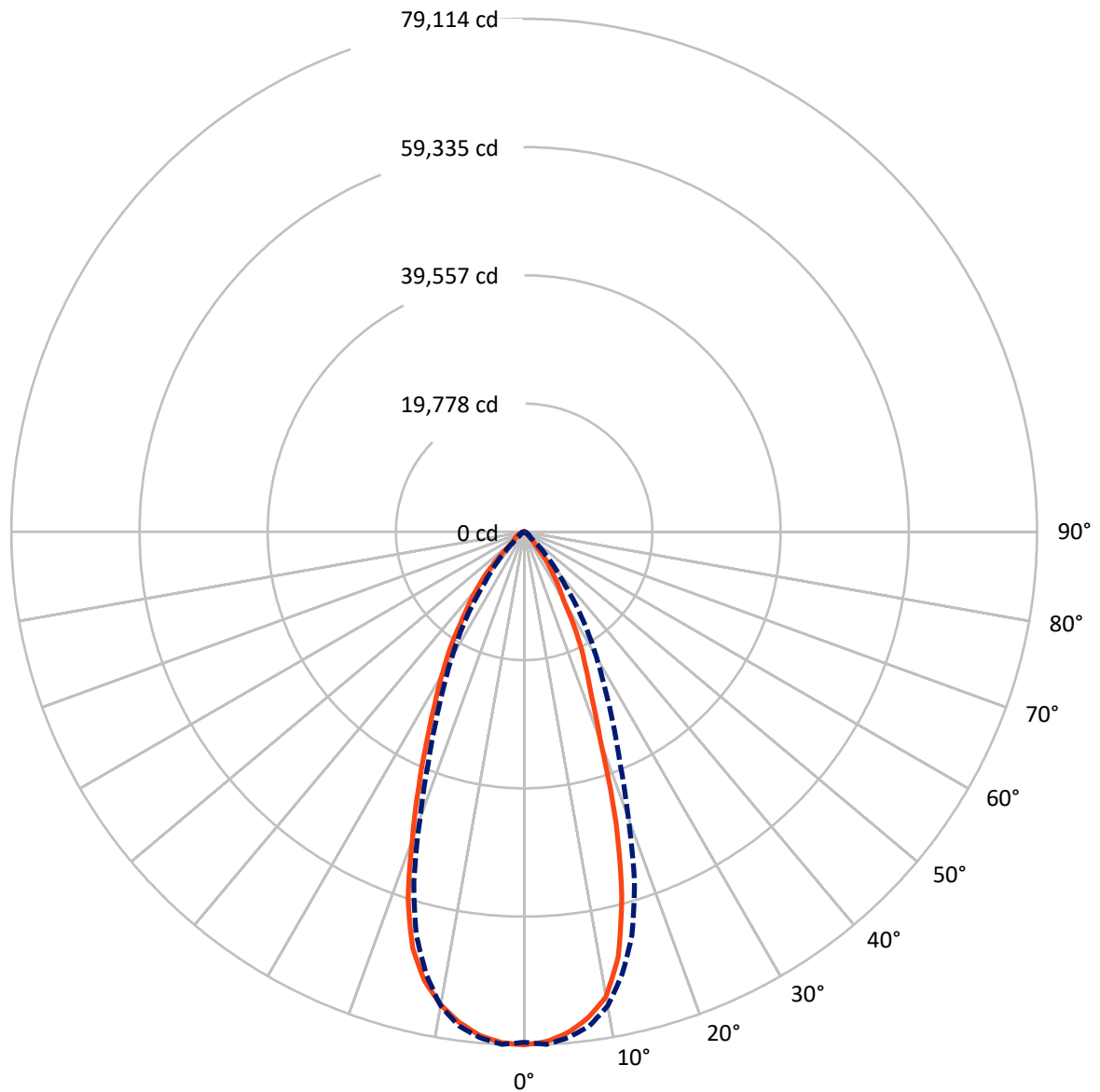
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### Lumen Table

90																
80	0.2	0.8		1.3		1.7		2.0		1.7		1.3		0.8		0.2
70																
60	0.2	0.1	0.2	0.3	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.1	0.2
50		0.3	0.4	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.4	0.3	
40	0.6	0.7	1.5	3.1	5.5	11.3	25.0	33.7	33.7	25.0	11.3	5.5	3.1	1.5	0.7	0.6
30		1.6	5.1	10.5	26.5	78.6	145.6	214.6	214.6	145.6	78.6	26.5	10.5	5.1	1.6	
20	1.3	2.7	8.9	22.7	109.1	257.8	473.9	650.7	650.7	473.9	257.8	109.1	22.7	8.9	2.7	1.3
10		3.7	11.9	51.3	238.2	588.8	1145.6	1637.3	1637.3	1145.6	588.8	238.2	51.3	11.9	3.7	
0	1.9	4.5	14.0	77.8	335.3	855.0	1715.3	2275.5	2275.5	1715.3	855.0	335.3	77.8	14.0	4.5	1.9
-10		5.1	15.6	82.9	361.3	896.6	1819.8	2311.0	2311.0	1819.8	896.6	361.3	82.9	15.6	5.1	
-20	2.2	5.2	16.4	68.4	307.6	749.3	1411.6	1906.0	1906.0	1411.6	749.3	307.6	68.4	16.4	5.2	2.2
-30		5.0	16.4	42.5	199.5	496.1	825.0	1069.5	1069.5	825.0	496.1	199.5	42.5	16.4	5.0	
-40	2.2	4.5	14.4	30.6	81.2	241.4	406.1	515.9	515.9	406.1	241.4	81.2	30.6	14.4	4.5	2.2
-50		3.7	10.6	23.1	39.2	64.0	119.8	168.0	168.0	119.8	64.0	39.2	23.1	10.6	3.7	
-60	2.0	3.0	7.1	14.5	25.7	35.9	44.2	50.5	50.5	44.2	35.9	25.7	14.5	7.1	3.0	2.0
-70		2.5	4.7	8.2	13.3	18.2	23.1	26.6	26.6	23.1	18.2	13.3	8.2	4.7	2.5	
-80																
-90	1.5	9.0		19.9		31.3		38.4		31.3		19.9		9.0		1.5

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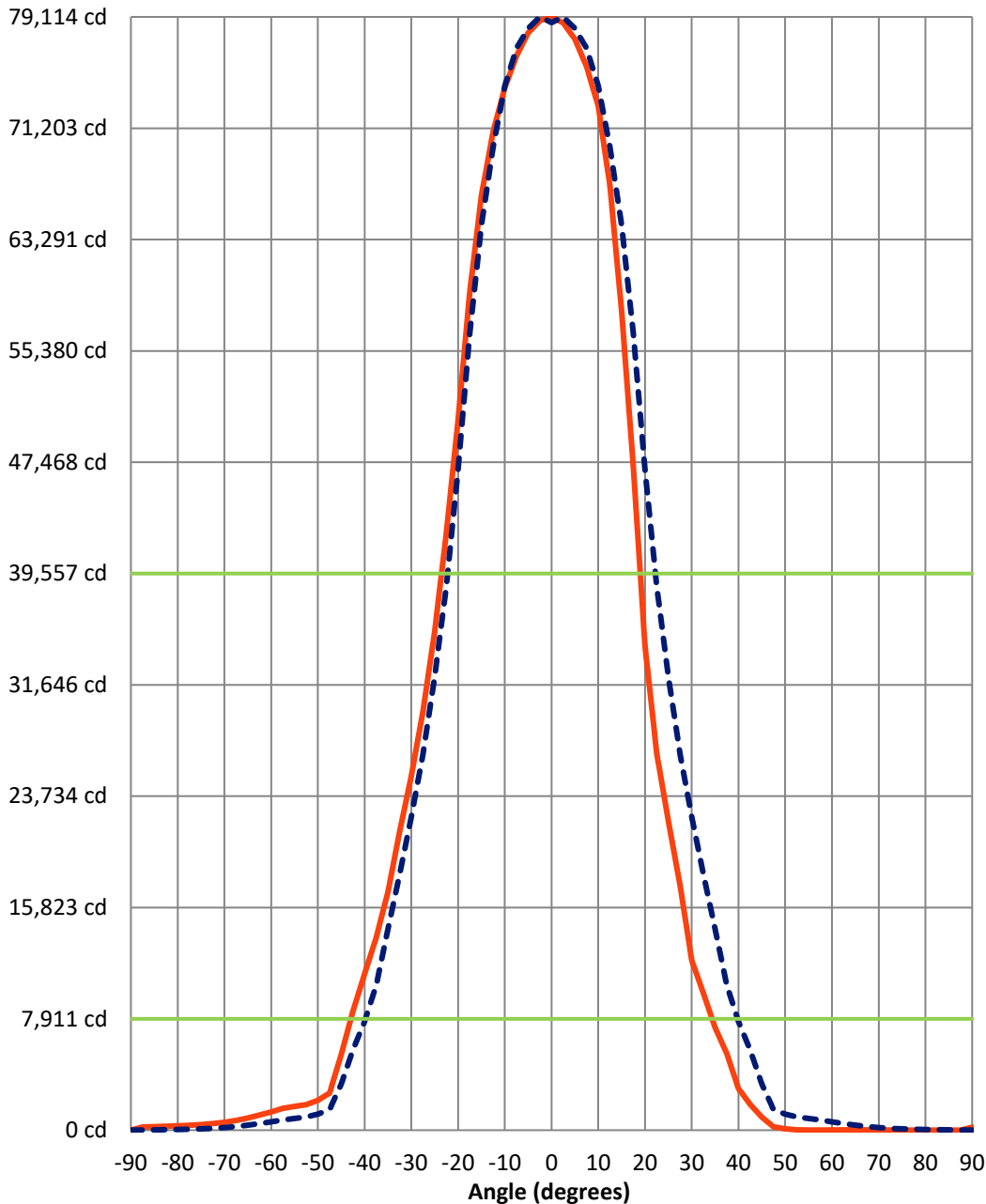
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 44.5°  
 V Angle: 42.5°  
 Lumens: 28286  
 Efficiency: 54.9%

**Field:**  
 H Angle: 79.6°  
 V Angle: 77.3°  
 Lumens: 47335  
 Efficiency: 91.9%

**Spill:**  
 Lumens: 4178.9  
 Efficiency: 8.1%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	6.8	13.3	19.9	32.9	46.0	58.1	70.3	80.2	90.1	97.3	104.4
87.5°	6.8	6.3	5.8	5.8	5.8	5.9	5.9	5.7	5.4	5.3	5.3
85°	6.8	6.5	5.9	6.0	6.0	6.1	6.2	6.0	5.8	5.7	5.5
82.5°	6.8	6.6	6.1	6.2	6.2	6.4	6.5	6.4	6.2	6.1	5.8
80°	6.8	6.8	6.3	6.4	6.4	6.6	6.8	6.8	6.7	6.5	6.1
77.5°	6.8	6.9	6.5	6.6	6.7	6.9	7.2	7.2	7.2	6.9	6.4
75°	6.8	7.0	6.7	6.8	6.9	7.4	7.6	7.6	7.6	7.2	6.7
72.5°	6.8	7.2	6.9	7.0	7.4	7.8	7.9	8.0	7.9	7.5	7.0
70°	6.8	7.3	7.1	7.3	7.8	8.2	8.4	8.4	8.2	7.8	7.6
67.5°	6.8	7.5	7.3	7.6	8.3	8.7	8.9	8.9	8.6	8.5	8.3
65°	6.8	7.6	7.5	8.0	8.7	9.2	9.4	9.4	9.5	9.2	9.2
62.5°	6.8	7.8	7.7	8.4	9.2	9.7	10.0	10.3	10.4	10.2	10.7
60°	6.8	7.9	8.0	8.7	9.6	10.2	10.6	11.2	11.3	12.3	12.5
57.5°	6.8	8.1	8.4	9.1	10.2	10.8	11.8	12.3	14.0	14.9	15.9
55°	6.8	8.2	8.8	9.5	10.9	11.3	13.2	13.6	17.3	18.5	20.5
52.5°	6.8	8.4	9.3	9.8	11.6	12.0	14.7	17.1	21.1	24.1	25.6
50°	6.8	8.6	9.7	10.2	12.4	13.8	16.3	20.9	25.6	30.1	33.1
47.5°	6.8	8.7	10.2	10.6	13.3	15.6	18.3	24.8	31.4	36.4	41.4
45°	6.8	8.9	10.8	11.3	14.1	17.5	21.7	28.8	37.3	44.5	50.3
42.5°	6.8	9.0	11.3	12.0	15.1	19.5	25.1	33.6	43.5	52.9	63.7
40°	6.8	9.2	11.9	13.0	16.4	21.6	28.8	39.1	50.3	61.6	78.5
37.5°	6.8	9.3	12.5	14.3	18.0	23.7	32.7	44.7	58.2	72.1	94.2
35°	6.8	9.5	13.1	15.5	19.7	26.6	36.7	50.3	66.3	86.2	112.4
32.5°	6.8	9.6	13.7	16.8	21.4	29.8	41.0	56.3	74.6	100.7	133.0
30°	6.8	9.8	14.4	18.2	23.0	32.9	46.0	62.6	83.1	115.3	153.2
27.5°	6.8	9.9	15.0	19.5	25.3	36.0	50.9	69.4	92.6	130.2	173.1
25°	6.8	10.1	15.7	20.8	27.6	39.1	55.7	76.0	103.6	146.1	192.5
22.5°	6.8	10.2	16.3	22.2	29.9	42.2	60.3	82.3	114.0	159.9	213.1
20°	6.8	10.3	17.0	23.6	32.1	45.6	64.8	88.3	123.8	172.9	230.3
17.5°	6.8	10.5	17.7	24.9	34.3	48.8	69.2	94.0	132.8	185.1	246.5
15°	6.8	10.6	18.3	26.3	36.4	51.9	73.6	99.6	141.3	196.5	261.9
12.5°	6.8	10.7	18.9	27.6	38.4	54.9	77.7	105.0	149.7	207.0	276.3
10°	6.8	10.8	19.6	28.9	40.3	57.7	81.5	110.1	158.1	219.3	291.6
7.5°	6.8	10.9	20.2	30.1	42.2	60.3	85.0	114.9	165.9	231.3	309.8
5°	6.8	11.0	20.7	31.3	44.0	62.7	88.3	119.3	173.0	242.3	327.0
2.5°	6.8	11.1	21.3	32.5	45.7	65.0	91.2	123.3	179.3	252.3	342.8
0°	6.8	11.2	21.8	33.6	47.3	67.1	93.9	126.8	184.7	261.1	356.9
-2.5°	6.8	11.6	22.7	35.1	49.5	70.2	97.9	132.0	191.0	268.5	364.2
-5°	6.8	12.0	23.6	36.5	51.6	73.0	101.6	136.6	196.4	274.5	369.6
-7.5°	6.8	12.5	24.5	37.8	53.5	75.7	104.9	140.8	200.7	279.1	373.1
-10°	6.8	12.9	25.2	39.1	55.3	78.1	107.8	144.4	204.1	282.1	374.7
-12.5°	6.8	13.2	26.0	40.2	57.0	80.2	110.4	147.5	206.3	283.7	377.3
-15°	6.8	13.6	26.7	41.3	58.5	82.1	112.6	149.9	207.6	284.2	378.7
-17.5°	6.8	13.9	27.3	42.3	59.9	83.7	114.3	152.0	207.9	283.0	377.1
-20°	6.8	14.3	27.9	43.2	61.1	85.0	115.9	153.8	207.1	280.1	372.4



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 CATALOG NUMBER: EPH-LS-08-0320L-40-80-5S-VHE-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6.8	14.6	28.4	44.0	62.1	86.0	117.5	155.0	205.2	275.4	365.0
-25°	6.8	14.9	28.9	44.7	63.0	87.2	118.6	155.7	202.3	269.1	358.5
-27.5°	6.8	15.1	29.3	45.3	63.7	88.4	119.3	155.8	198.3	264.8	353.7
-30°	6.8	15.4	29.6	45.8	64.3	89.2	119.5	155.3	196.6	261.3	346.2
-32.5°	6.8	15.6	29.8	46.1	65.4	89.8	119.3	155.0	196.5	256.1	335.9
-35°	6.8	15.8	30.1	46.4	66.3	90.0	119.3	154.4	195.3	249.0	322.6
-37.5°	6.8	15.9	30.2	46.6	67.0	90.3	119.3	153.5	193.3	240.2	310.7
-40°	6.8	16.1	30.3	46.7	67.6	91.0	118.9	151.9	190.2	234.9	299.1
-42.5°	6.8	16.2	30.3	46.8	68.0	91.5	118.3	149.7	187.2	230.4	285.6
-45°	6.8	16.2	30.2	47.0	68.4	91.7	117.2	147.5	183.9	224.7	271.4
-47.5°	6.8	16.3	30.1	47.1	68.5	91.7	115.8	145.8	179.8	217.9	263.4
-50°	6.8	16.3	29.9	47.2	68.4	91.5	115.3	143.5	174.6	211.7	254.0
-52.5°	6.8	16.3	29.6	47.1	68.1	91.1	114.6	140.7	170.1	204.3	242.7
-55°	6.8	16.3	29.3	46.9	67.6	90.3	113.7	137.7	165.8	195.8	231.2
-57.5°	6.8	16.2	28.9	46.5	66.8	89.2	112.4	136.1	160.8	189.1	218.8
-60°	6.8	16.1	28.4	46.1	65.9	87.8	110.9	133.9	155.8	182.6	206.9
-62.5°	6.8	16.0	28.1	45.5	64.9	86.2	108.8	131.3	152.6	175.0	197.4
-65°	6.8	15.9	27.6	44.7	63.8	84.3	106.4	128.2	149.0	169.1	187.4
-67.5°	6.8	15.7	27.1	43.9	62.5	82.3	103.7	124.5	145.0	163.5	179.6
-70°	6.8	15.6	26.5	42.9	61.1	80.1	100.8	120.5	140.1	157.5	172.5
-72.5°	6.8	15.3	25.8	42.0	59.5	77.6	97.2	116.2	134.8	150.7	165.1
-75°	6.8	15.1	25.1	41.0	57.7	74.9	93.3	111.2	129.2	143.7	157.2
-77.5°	6.8	14.9	24.4	39.9	56.0	71.9	89.1	105.6	122.5	136.2	149.0
-80°	6.8	14.6	23.6	38.7	54.2	69.3	84.7	99.9	115.4	127.5	139.4
-82.5°	6.8	14.3	22.7	37.4	52.4	66.7	81.2	94.4	108.0	118.7	129.3
-85°	6.8	14.0	21.8	36.0	50.3	64.0	77.7	89.8	102.2	111.1	119.9
-87.5°	6.8	13.7	20.9	34.5	48.2	61.1	74.1	85.1	96.2	104.2	112.2
-90°	6.8	6.2	5.6	5.6	5.6	5.6	5.6	5.3	5.0	5.0	5.0





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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°	108.8	113.2	117.2	121.2	126.2	131.2	136.5	141.8	147.4	152.9	158.2
87.5°	5.0	4.7	4.7	4.7	4.4	4.2	3.9	3.7	3.4	3.1	3.0
85°	5.3	5.0	5.0	5.0	4.8	4.6	4.3	4.0	3.7	3.4	3.5
82.5°	5.7	5.6	5.4	5.0	5.0	5.0	4.7	4.4	4.2	3.9	3.8
80°	6.1	6.2	5.7	5.3	5.1	5.0	4.8	4.5	4.4	4.4	4.2
77.5°	6.3	6.2	5.9	5.6	5.4	5.2	5.0	4.8	4.7	4.5	4.4
75°	6.5	6.3	6.1	5.8	5.5	5.5	5.4	5.3	5.1	5.1	5.2
72.5°	6.8	6.7	6.4	5.9	5.7	5.9	5.9	5.7	5.9	6.1	6.1
70°	7.4	7.1	6.7	6.3	6.1	6.3	6.6	7.1	7.5	7.6	8.2
67.5°	8.0	7.8	7.2	6.9	6.7	7.1	7.5	9.0	10.4	11.2	12.1
65°	8.9	8.5	7.9	7.8	7.5	9.0	10.3	11.9	14.8	16.3	16.2
62.5°	10.0	10.1	9.3	9.6	10.8	12.2	14.4	17.8	21.3	22.7	21.4
60°	12.7	12.3	12.4	13.2	14.6	16.2	19.7	23.9	27.9	30.1	26.8
57.5°	16.2	16.1	17.1	17.7	19.5	20.0	24.6	29.9	33.3	35.9	31.6
55°	21.3	21.5	23.3	23.8	25.2	25.1	29.1	34.1	37.6	38.8	34.3
52.5°	28.2	28.6	31.9	32.3	31.9	32.3	33.8	39.1	42.0	42.1	38.2
50°	35.9	39.9	41.9	43.3	40.8	42.4	41.0	46.8	51.3	50.9	52.3
47.5°	47.2	52.5	55.5	57.7	55.9	60.5	59.5	68.5	71.6	88.7	91.4
45°	60.6	69.2	73.2	78.0	83.3	88.9	103.4	103.4	143.8	159.7	201.7
42.5°	75.7	88.5	99.5	101.4	128.3	143.9	163.6	204.1	243.5	293.1	311.9
40°	95.7	109.9	132.3	157.6	187.3	221.3	258.0	307.1	359.0	384.6	387.8
37.5°	117.8	144.5	175.7	221.6	267.3	311.9	358.5	406.5	443.8	453.3	488.1
35°	141.6	180.8	239.1	291.8	344.9	406.5	447.9	492.1	514.6	553.8	620.7
32.5°	171.6	218.0	290.4	359.0	418.0	485.0	524.7	558.6	611.2	679.2	827.2
30°	202.8	260.0	333.2	412.3	485.1	541.3	586.4	628.9	711.4	875.8	1382.9
27.5°	228.9	296.0	373.0	461.2	544.2	595.5	646.6	720.9	868.2	1207.0	2168.9
25°	252.2	325.1	412.0	514.4	595.7	652.1	718.7	823.6	1054.6	1974.3	3206.9
22.5°	275.0	353.8	456.6	570.4	647.9	707.8	808.7	998.1	1482.2	2775.1	4256.5
20°	298.6	390.4	505.0	622.3	697.9	757.2	887.3	1167.5	2158.6	3637.2	5182.8
17.5°	323.2	427.4	552.0	659.3	730.0	808.9	970.2	1306.5	2723.2	4442.3	6172.4
15°	347.3	462.8	592.3	691.1	759.4	864.7	1081.4	1716.4	3320.3	5341.3	7230.6
12.5°	370.4	495.0	623.5	716.1	788.3	916.8	1172.9	2168.0	4038.2	6176.1	8150.5
10°	392.1	523.8	649.8	739.8	819.8	972.3	1260.9	2610.2	4666.7	6718.6	8718.3
7.5°	414.5	547.9	672.0	762.3	850.2	1024.6	1357.9	2953.7	5135.9	7135.9	9157.0
5°	434.7	566.4	693.3	787.6	881.5	1071.1	1436.3	3216.2	5488.0	7480.7	9547.8
2.5°	452.3	580.9	711.5	811.4	912.0	1109.9	1458.9	3289.3	5653.4	7666.2	9932.1
0°	467.5	591.9	726.2	832.5	939.4	1141.5	1464.8	3276.5	5694.3	7722.4	10306.3
-2.5°	476.1	606.1	752.5	862.8	964.0	1167.0	1495.8	3281.3	5728.9	8116.0	10787.5
-5°	482.2	616.7	774.0	889.7	985.8	1184.9	1513.0	3206.8	5682.1	8323.2	10928.1
-7.5°	485.6	623.4	789.9	912.1	1005.5	1197.9	1522.7	3085.4	5684.8	8332.6	10751.2
-10°	487.3	629.7	797.4	924.7	1022.5	1204.1	1518.0	2877.1	5459.1	8107.1	10459.8
-12.5°	493.2	635.6	800.0	934.0	1036.0	1205.6	1525.0	2673.2	5035.8	7696.5	10043.2
-15°	495.5	637.1	798.5	941.6	1057.9	1220.3	1525.2	2356.6	4486.2	7175.4	9519.3
-17.5°	493.9	634.2	794.0	952.7	1078.1	1221.5	1490.6	1941.2	3858.5	6434.2	8829.4
-20°	488.5	627.6	784.0	958.2	1089.7	1231.6	1480.5	1873.8	3243.4	5507.5	7991.8



REPORT NUMBER: P701358 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	480.7	617.4	769.8	946.1	1102.8	1253.8	1466.6	1784.1	2520.0	4448.8	6954.8
-25°	471.4	606.2	754.6	932.2	1109.0	1268.0	1423.6	1664.3	2095.3	3543.0	5671.4
-27.5°	461.7	590.2	738.3	909.1	1105.3	1261.2	1398.3	1597.9	1902.5	2536.6	4334.2
-30°	449.3	571.0	714.4	879.1	1072.5	1240.4	1382.8	1512.0	1720.0	2101.1	3180.1
-32.5°	434.2	548.5	687.8	845.0	1023.1	1215.4	1347.1	1459.4	1617.9	1851.4	2294.2
-35°	417.1	528.6	658.2	802.0	964.6	1152.8	1293.5	1412.3	1519.3	1699.1	1982.2
-37.5°	399.7	504.0	620.1	756.5	911.3	1064.9	1231.0	1349.4	1457.2	1570.0	1771.7
-40°	379.4	473.5	582.3	708.4	839.7	979.0	1133.1	1281.4	1387.9	1505.5	1626.4
-42.5°	357.2	444.6	541.8	651.1	769.0	894.3	1030.9	1179.5	1322.2	1434.7	1545.8
-45°	339.2	413.3	498.6	596.0	697.4	808.9	933.6	1063.7	1215.3	1360.8	1463.6
-47.5°	317.5	382.2	460.8	538.0	629.8	729.3	835.8	959.0	1086.2	1229.5	1370.0
-50°	296.8	356.0	416.6	486.1	564.0	651.4	746.4	854.9	972.5	1089.9	1217.4
-52.5°	282.6	327.9	379.5	434.4	502.5	577.4	661.5	753.6	856.7	959.3	1069.8
-55°	267.0	306.2	343.3	389.8	443.4	508.4	581.4	661.8	740.4	834.1	928.0
-57.5°	251.8	284.3	314.0	349.8	394.5	442.3	508.6	575.6	643.8	716.4	795.7
-60°	236.4	263.0	289.0	317.9	350.5	392.8	438.9	494.9	550.7	608.6	678.9
-62.5°	221.0	242.7	265.0	289.9	317.6	346.1	383.9	424.7	463.8	516.6	572.5
-65°	208.6	223.5	242.0	263.9	286.3	312.4	338.7	364.2	398.5	438.6	479.2
-67.5°	195.3	209.3	222.9	238.2	258.5	280.0	301.7	324.6	347.9	375.4	405.1
-70°	185.6	195.6	207.6	220.3	233.5	249.2	268.5	287.5	307.1	330.0	353.6
-72.5°	176.5	185.6	194.6	203.5	215.4	228.4	241.2	253.9	270.2	289.7	308.5
-75°	167.1	175.5	183.7	191.8	200.8	210.5	220.5	232.0	244.6	258.2	271.2
-77.5°	157.5	164.9	172.4	179.8	188.1	196.7	205.4	214.2	224.1	234.7	244.8
-80°	147.2	154.1	160.8	167.5	174.9	182.6	190.4	198.2	207.0	216.1	224.5
-82.5°	135.9	142.0	148.3	154.4	161.3	168.2	175.1	182.0	189.8	197.7	204.9
-85°	125.0	129.8	135.3	140.8	147.0	153.2	159.5	165.6	172.8	179.9	186.1
-87.5°	116.9	121.5	126.0	130.5	135.8	141.1	146.5	151.9	158.1	164.3	169.8
-90°	4.7	4.4	4.4	4.4	4.1	3.7	3.7	3.7	3.4	3.1	2.8



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	163.5	167.0	170.4	173.2	175.9	179.7	183.4	188.4	193.4	198.4	203.3
87.5°	3.0	2.8	2.5	2.5	2.4	2.5	2.5	2.2	1.9	1.9	1.9
85°	3.5	3.4	3.4	3.2	3.0	3.0	3.0	3.0	3.0	2.8	2.5
82.5°	3.7	3.7	3.7	3.4	3.1	3.1	3.1	3.1	3.1	2.8	2.5
80°	3.9	3.8	3.7	3.6	3.5	3.3	3.1	2.9	2.6	2.5	2.5
77.5°	4.5	4.3	4.0	3.9	3.7	3.5	3.2	2.8	2.5	2.5	2.5
75°	5.0	4.9	4.7	4.5	4.1	4.0	3.9	3.8	3.5	3.5	3.6
72.5°	6.0	5.9	5.9	6.1	6.1	6.3	6.6	6.8	7.0	7.5	8.1
70°	8.9	9.5	9.8	10.0	10.0	9.9	9.9	10.0	10.3	10.6	10.9
67.5°	13.1	14.1	14.6	14.8	13.8	13.3	13.3	13.6	14.1	15.0	16.2
65°	17.1	16.8	16.4	16.0	16.2	16.3	16.1	16.3	17.2	18.5	20.0
62.5°	20.1	17.4	15.8	15.0	15.5	16.5	15.8	15.3	16.0	16.8	17.6
60°	22.9	17.9	14.3	13.2	13.0	13.5	12.4	11.4	11.6	11.9	12.3
57.5°	25.6	19.2	13.3	11.3	9.5	8.6	8.3	7.9	7.7	7.5	7.6
55°	28.1	20.9	13.0	11.6	10.3	10.0	9.1	8.7	8.3	8.2	8.4
52.5°	31.1	26.8	21.4	19.9	22.4	22.6	20.0	23.7	26.6	27.9	28.4
50°	51.0	45.7	54.8	54.0	64.7	72.3	69.6	78.0	90.6	98.5	101.7
47.5°	112.1	112.3	130.3	146.4	159.6	177.0	190.3	203.2	221.1	232.2	237.2
45°	212.6	230.7	249.6	277.1	303.4	335.5	374.2	404.6	526.6	648.0	758.5
42.5°	325.4	345.2	372.9	432.8	504.0	668.8	963.6	1128.1	1333.5	1557.0	1642.8
40°	419.3	448.1	524.1	692.8	1103.7	1494.9	1924.7	2288.1	2609.8	2794.9	2949.6
37.5°	535.2	604.0	950.0	1427.5	1938.3	2428.7	2871.3	3255.4	3588.7	3859.1	4126.7
35°	704.2	1161.1	1672.1	2293.0	2836.1	3290.3	3748.9	4189.0	4567.1	4970.9	5570.9
32.5°	1335.1	1932.2	2589.5	3146.1	3676.8	4250.0	4731.8	5436.0	5987.5	6723.7	7848.9
30°	2143.0	2892.3	3488.3	4045.0	4725.6	5496.9	6301.5	7378.5	8503.9	9677.9	10886.2
27.5°	3180.2	3937.1	4565.4	5308.0	6206.6	7233.0	8771.3	10289.4	11903.5	13371.6	14487.4
25°	4430.4	5232.0	6306.0	7383.5	8669.4	10423.5	12151.7	14011.8	15630.0	17070.8	18683.6
22.5°	5602.2	6916.1	8334.3	9961.0	12055.1	14033.4	16170.3	18052.7	20083.4	22136.9	23725.0
20°	6591.4	8303.1	10337.6	12682.5	15003.8	17244.8	19731.4	22731.9	25755.2	28456.2	30416.2
17.5°	7925.7	10093.6	12626.0	15413.3	17912.4	20689.4	24150.3	28048.8	32285.2	36033.6	39005.6
15°	9383.7	11915.2	14778.7	17699.1	20860.8	24582.0	29032.2	34010.9	39192.9	44448.9	49345.6
12.5°	10374.8	13340.7	16467.6	19940.2	23883.7	28872.9	34276.7	39796.0	45717.8	52257.6	57937.7
10°	11222.2	14512.4	18285.0	22324.2	26855.6	32218.9	37803.9	44507.8	51899.5	58339.6	64423.6
7.5°	12060.4	15926.6	19867.3	24073.0	29051.5	34876.8	41486.7	48696.5	56219.0	63219.0	68194.3
5°	13052.1	17063.1	21003.6	25446.2	30659.8	36719.2	43691.2	51970.4	59896.2	66330.5	70818.0
2.5°	13872.1	17744.9	21779.9	26176.9	31535.1	37861.6	45428.6	54629.2	62761.9	68778.2	72838.8
0°	14289.6	18181.6	22268.2	26736.5	32229.4	38684.7	46940.6	56605.8	64292.2	69850.0	74198.7
-2.5°	14340.5	18042.8	22054.1	26461.1	31829.6	38412.9	46876.5	56655.9	64690.5	70467.1	74757.5
-5°	14192.3	17859.9	21863.5	26273.3	31569.1	38426.5	46924.5	56328.2	64091.8	70075.4	74116.0
-7.5°	13834.9	17524.1	21535.1	25879.9	31092.5	37743.2	45669.1	54192.9	62178.5	68643.6	72371.1
-10°	13311.3	16936.1	20885.3	25044.4	29960.3	36109.2	43197.5	51001.1	59070.7	65252.2	69550.7
-12.5°	12649.0	16079.6	19854.8	23786.9	28428.1	34156.9	40475.3	47009.7	53774.2	60821.5	65298.7
-15°	11888.7	15023.5	18557.2	22510.5	27099.0	31873.3	36892.3	42215.9	48399.8	54164.3	59375.9
-17.5°	11167.3	13867.1	17164.2	21016.0	24923.3	29071.7	33373.1	37719.5	42678.3	47203.4	51251.3
-20°	10260.6	12559.5	15597.4	19019.8	22650.6	26245.1	29939.7	33461.1	37061.0	40744.2	43959.2



REPORT NUMBER: P701358 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	9192.0	11427.6	13962.2	16942.2	20427.9	23627.0	26586.1	29338.0	32223.5	34772.0	37417.8
-25°	8027.8	10177.4	12506.6	15223.1	17899.5	20799.7	23255.6	25595.9	27834.1	29835.2	31892.6
-27.5°	6598.3	8867.5	11163.5	13337.7	15546.2	17628.6	19918.4	22077.6	23944.2	25595.1	27225.7
-30°	4987.8	7396.4	9568.3	11433.3	13184.2	14921.0	16674.1	18485.9	20252.9	21756.2	23091.8
-32.5°	3680.1	5689.4	7696.9	9524.6	11056.9	12492.4	13855.7	15277.3	16513.1	17782.1	19017.2
-35°	2434.8	3855.0	5521.5	7379.5	8975.5	10183.1	11419.3	12552.6	13484.2	14468.1	15400.5
-37.5°	2049.1	2427.0	3541.9	5050.4	6528.5	7917.2	9149.9	10135.2	10992.7	11778.5	12583.8
-40°	1807.5	2023.1	2340.3	2888.4	4131.5	5353.1	6623.2	7670.4	8584.0	9337.3	10078.7
-42.5°	1649.0	1796.9	1955.0	2170.8	2383.6	2981.9	4024.4	4928.4	5785.1	6633.8	7397.7
-45°	1566.8	1649.9	1740.3	1857.6	1948.6	2110.8	2291.9	2462.0	3143.8	3880.8	4497.6
-47.5°	1468.3	1556.8	1624.4	1679.7	1723.9	1795.2	1870.4	1968.8	2126.7	2312.9	2455.0
-50°	1342.3	1449.8	1517.2	1572.7	1604.4	1631.9	1659.1	1720.8	1806.3	1907.8	1988.3
-52.5°	1179.5	1285.8	1381.3	1453.4	1488.5	1522.7	1556.8	1599.2	1647.9	1706.5	1748.5
-55°	1026.0	1114.9	1197.5	1264.7	1325.3	1380.5	1433.6	1478.5	1530.9	1586.7	1625.8
-57.5°	880.4	952.1	1019.9	1078.1	1130.5	1176.9	1231.2	1290.2	1357.3	1421.3	1466.2
-60°	744.3	801.3	857.6	904.9	947.6	985.7	1035.9	1085.3	1144.1	1196.5	1234.7
-62.5°	622.5	672.3	714.0	749.6	781.8	813.7	855.9	897.3	945.6	987.4	1019.2
-65°	517.2	558.8	588.1	614.6	637.9	665.0	697.7	730.9	768.9	801.4	827.4
-67.5°	436.0	464.2	482.6	499.0	518.3	539.9	564.5	591.0	620.6	645.2	665.1
-70°	374.6	392.2	403.4	415.6	429.7	444.7	461.4	481.3	503.7	523.0	539.5
-72.5°	326.0	339.5	348.7	358.2	366.7	376.9	388.1	403.0	419.6	434.6	448.6
-75°	283.9	293.5	302.1	310.3	317.8	326.4	335.4	347.9	361.6	373.9	385.6
-77.5°	255.6	263.1	268.8	274.3	279.7	286.9	294.2	304.4	315.0	325.2	335.1
-80°	233.0	238.7	243.5	247.5	251.2	257.3	263.7	272.0	280.4	289.3	298.0
-82.5°	211.9	216.9	221.6	225.4	228.9	234.5	240.2	247.6	255.0	262.4	269.7
-85°	192.3	196.8	201.2	204.9	208.4	212.9	217.4	223.8	230.2	236.9	243.5
-87.5°	175.2	179.5	183.8	186.7	189.5	193.4	197.4	202.9	208.3	214.1	219.8
-90°	2.5	2.5	2.5	2.2	1.9	1.9	1.9	1.6	1.2	1.2	1.2



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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°	205.8	208.3	209.6	210.8	209.6	208.3	205.8	203.3	198.4	193.4	188.4
87.5°	1.5	1.2	1.2	1.2	1.2	1.2	1.5	1.9	1.9	1.9	2.2
85°	2.2	1.9	2.2	2.5	2.2	1.9	2.2	2.5	2.8	3.0	3.0
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8	3.1	3.1
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.9
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8
75°	3.4	3.1	3.1	3.1	3.1	3.1	3.4	3.6	3.5	3.5	3.8
72.5°	8.4	8.5	8.9	9.3	8.9	8.5	8.4	8.1	7.5	7.0	6.8
70°	11.0	11.1	11.2	11.2	11.2	11.1	11.0	10.9	10.6	10.3	10.0
67.5°	16.9	17.2	17.9	18.7	17.9	17.2	16.9	16.2	15.0	14.1	13.6
65°	21.2	22.1	22.4	22.4	22.4	22.1	21.2	20.0	18.5	17.2	16.3
62.5°	18.4	19.2	19.3	19.3	19.3	19.2	18.4	17.6	16.8	16.0	15.3
60°	12.8	13.2	13.4	13.7	13.4	13.2	12.8	12.3	11.9	11.6	11.4
57.5°	7.7	8.1	8.2	8.1	8.2	8.1	7.7	7.6	7.5	7.7	7.9
55°	8.5	8.6	8.5	8.1	8.5	8.6	8.5	8.4	8.2	8.3	8.7
52.5°	27.7	26.3	24.9	23.6	24.9	26.3	27.7	28.4	27.9	26.6	23.7
50°	100.7	99.0	96.6	93.9	96.6	99.0	100.7	101.7	98.5	90.6	78.0
47.5°	241.7	242.2	239.9	235.6	239.9	242.2	241.7	237.2	232.2	221.1	203.2
45°	854.8	901.3	926.4	943.8	926.4	901.3	854.8	758.5	648.0	526.6	404.6
42.5°	1717.8	1783.0	1832.5	1842.8	1832.5	1783.0	1717.8	1642.8	1557.0	1333.5	1128.1
40°	3133.0	3143.9	2962.1	2687.7	2962.1	3143.9	3133.0	2949.6	2794.9	2609.8	2288.1
37.5°	4445.6	4904.3	5437.3	5709.3	5437.3	4904.3	4445.6	4126.7	3859.1	3588.7	3255.4
35°	6380.6	7070.6	7294.4	7300.2	7294.4	7070.6	6380.6	5570.9	4970.9	4567.1	4189.0
32.5°	8863.6	9424.6	9724.2	9642.9	9724.2	9424.6	8863.6	7848.9	6723.7	5987.5	5436.0
30°	11590.2	12078.4	12082.2	11919.0	12082.2	12078.4	11590.2	10886.2	9677.9	8503.9	7378.5
27.5°	15642.3	16673.8	17399.7	17595.3	17399.7	16673.8	15642.3	14487.4	13371.6	11903.5	10289.4
25°	20136.8	21270.3	21967.2	22220.9	21967.2	21270.3	20136.8	18683.6	17070.8	15630.0	14011.8
22.5°	25203.1	26305.1	26808.0	27071.0	26808.0	26305.1	25203.1	23725.0	22136.9	20083.4	18052.7
20°	32284.6	33851.4	34442.1	34694.5	34442.1	33851.4	32284.6	30416.2	28456.2	25755.2	22731.9
17.5°	42093.8	45188.3	47123.2	48116.9	47123.2	45188.3	42093.8	39005.6	36033.6	32285.2	28048.8
15°	52969.6	56111.2	58177.2	59416.0	58177.2	56111.2	52969.6	49345.6	44448.9	39192.9	34010.9
12.5°	62299.8	65100.3	67095.8	68282.1	67095.8	65100.3	62299.8	57937.7	52257.6	45717.8	39796.0
10°	68285.3	70687.1	72757.4	73768.4	72757.4	70687.1	68285.3	64423.6	58339.6	51899.5	44507.8
7.5°	71668.2	74460.9	75583.1	76274.6	75583.1	74460.9	71668.2	68194.3	63219.0	56219.0	48696.5
5°	74290.0	76496.9	77532.9	78038.4	77532.9	76496.9	74290.0	70818.0	66330.5	59896.2	51970.4
2.5°	76040.2	77956.1	78688.7	79096.6	78688.7	77956.1	76040.2	72838.8	68778.2	62761.9	54629.2
0°	76880.1	78292.7	79114.0	78713.6	79114.0	78292.7	76880.1	74198.7	69850.0	64292.2	56605.8
-2.5°	76886.0	78228.7	78839.2	78542.0	78839.2	78228.7	76886.0	74757.5	70467.1	64690.5	56655.9
-5°	76228.2	77230.3	77973.9	77735.6	77973.9	77230.3	76228.2	74116.0	70075.4	64091.8	56328.2
-7.5°	74454.3	75786.1	76330.8	76357.3	76330.8	75786.1	74454.3	72371.1	68643.6	62178.5	54192.9
-10°	72014.0	73490.6	74070.5	74129.7	74070.5	73490.6	72014.0	69550.7	65252.2	59070.7	51001.1
-12.5°	68387.2	70119.2	70953.8	71102.5	70953.8	70119.2	68387.2	65298.7	60821.5	53774.2	47009.7
-15°	62756.9	65091.5	66409.3	66871.7	66409.3	65091.5	62756.9	59375.9	54164.3	48399.8	42215.9
-17.5°	55102.8	57892.2	59535.4	60114.8	59535.4	57892.2	55102.8	51251.3	47203.4	42678.3	37719.5
-20°	47118.9	49186.8	50453.5	50975.5	50453.5	49186.8	47118.9	43959.2	40744.2	37061.0	33461.1



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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°	39856.7	41524.0	42465.2	42883.2	42465.2	41524.0	39856.7	37417.8	34772.0	32223.5	29338.0
-25°	33558.2	34962.4	35445.1	35717.3	35445.1	34962.4	33558.2	31892.6	29835.2	27834.1	25595.9
-27.5°	28411.9	29525.8	29785.8	30026.0	29785.8	29525.8	28411.9	27225.7	25595.1	23944.2	22077.6
-30°	24075.4	25044.8	25177.3	25443.3	25177.3	25044.8	24075.4	23091.8	21756.2	20252.9	18485.9
-32.5°	20020.0	20883.2	21213.9	21264.7	21213.9	20883.2	20020.0	19017.2	17782.1	16513.1	15277.3
-35°	16136.6	16705.6	16930.7	16944.4	16930.7	16705.6	16136.6	15400.5	14468.1	13484.2	12552.6
-37.5°	13083.4	13446.1	13706.8	13635.0	13706.8	13446.1	13083.4	12583.8	11778.5	10992.7	10135.2
-40°	10494.2	10859.0	11097.3	11039.3	11097.3	10859.0	10494.2	10078.7	9337.3	8584.0	7670.4
-42.5°	7819.1	8220.4	8445.6	8383.3	8445.6	8220.4	7819.1	7397.7	6633.8	5785.1	4928.4
-45°	4849.3	5202.9	5368.8	5267.8	5368.8	5202.9	4849.3	4497.6	3880.8	3143.8	2462.0
-47.5°	2529.9	2610.3	2636.0	2600.0	2636.0	2610.3	2529.9	2455.0	2312.9	2126.7	1968.8
-50°	2051.1	2101.6	2123.4	2117.0	2123.4	2101.6	2051.1	1988.3	1907.8	1806.3	1720.8
-52.5°	1781.5	1804.8	1812.6	1808.0	1812.6	1804.8	1781.5	1748.5	1706.5	1647.9	1599.2
-55°	1658.9	1682.1	1690.2	1687.4	1690.2	1682.1	1658.9	1625.8	1586.7	1530.9	1478.5
-57.5°	1503.5	1531.9	1549.6	1558.7	1549.6	1531.9	1503.5	1466.2	1421.3	1357.3	1290.2
-60°	1265.4	1288.1	1294.7	1291.3	1294.7	1288.1	1265.4	1234.7	1196.5	1144.1	1085.3
-62.5°	1044.1	1062.7	1076.7	1086.1	1076.7	1062.7	1044.1	1019.2	987.4	945.6	897.3
-65°	846.5	860.0	862.8	860.5	862.8	860.0	846.5	827.4	801.4	768.9	730.9
-67.5°	679.1	689.1	690.4	688.2	690.4	689.1	679.1	665.1	645.2	620.6	591.0
-70°	550.6	559.0	560.2	558.9	560.2	559.0	550.6	539.5	523.0	503.7	481.3
-72.5°	456.6	462.8	467.5	471.3	467.5	462.8	456.6	448.6	434.6	419.6	403.0
-75°	391.5	395.9	397.0	397.3	397.0	395.9	391.5	385.6	373.9	361.6	347.9
-77.5°	340.3	344.8	347.9	350.7	347.9	344.8	340.3	335.1	325.2	315.0	304.4
-80°	302.0	305.4	307.9	310.2	307.9	305.4	302.0	298.0	289.3	280.4	272.0
-82.5°	273.4	276.9	279.1	281.0	279.1	276.9	273.4	269.7	262.4	255.0	247.6
-85°	246.4	249.1	251.1	253.0	251.1	249.1	246.4	243.5	236.9	230.2	223.8
-87.5°	222.4	225.0	226.3	227.5	226.3	225.0	222.4	219.8	214.1	208.3	202.9
-90°	0.9	0.6	0.6	0.6	0.6	0.6	0.9	1.2	1.2	1.2	1.6



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	183.4	179.7	175.9	173.2	170.4	167.0	163.5	158.2	152.9	147.4	141.8
87.5°	2.5	2.5	2.4	2.5	2.5	2.8	3.0	3.0	3.1	3.4	3.7
85°	3.0	3.0	3.0	3.2	3.4	3.4	3.5	3.5	3.4	3.7	4.0
82.5°	3.1	3.1	3.1	3.4	3.7	3.7	3.7	3.8	3.9	4.2	4.4
80°	3.1	3.3	3.5	3.6	3.7	3.8	3.9	4.2	4.4	4.4	4.5
77.5°	3.2	3.5	3.7	3.9	4.0	4.3	4.5	4.4	4.5	4.7	4.8
75°	3.9	4.0	4.1	4.5	4.7	4.9	5.0	5.2	5.1	5.1	5.3
72.5°	6.6	6.3	6.1	6.1	5.9	5.9	6.0	6.1	6.1	5.9	5.7
70°	9.9	9.9	10.0	10.0	9.8	9.5	8.9	8.2	7.6	7.5	7.1
67.5°	13.3	13.3	13.8	14.8	14.6	14.1	13.1	12.1	11.2	10.4	9.0
65°	16.1	16.3	16.2	16.0	16.4	16.8	17.1	16.2	16.3	14.8	11.9
62.5°	15.8	16.5	15.5	15.0	15.8	17.4	20.1	21.4	22.7	21.3	17.8
60°	12.4	13.5	13.0	13.2	14.3	17.9	22.9	26.8	30.1	27.9	23.9
57.5°	8.3	8.6	9.5	11.3	13.3	19.2	25.6	31.6	35.9	33.3	29.9
55°	9.1	10.0	10.3	11.6	13.0	20.9	28.1	34.3	38.8	37.6	34.1
52.5°	20.0	22.6	22.4	19.9	21.4	26.8	31.1	38.2	42.1	42.0	39.1
50°	69.6	72.3	64.7	54.0	54.8	45.7	51.0	52.3	50.9	51.3	46.8
47.5°	190.3	177.0	159.6	146.4	130.3	112.3	112.1	91.4	88.7	71.6	68.5
45°	374.2	335.5	303.4	277.1	249.6	230.7	212.6	201.7	159.7	143.8	103.4
42.5°	963.6	668.8	504.0	432.8	372.9	345.2	325.4	311.9	293.1	243.5	204.1
40°	1924.7	1494.9	1103.7	692.8	524.1	448.1	419.3	387.8	384.6	359.0	307.1
37.5°	2871.3	2428.7	1938.3	1427.5	950.0	604.0	535.2	488.1	453.3	443.8	406.5
35°	3748.9	3290.3	2836.1	2293.0	1672.1	1161.1	704.2	620.7	553.8	514.6	492.1
32.5°	4731.8	4250.0	3676.8	3146.1	2589.5	1932.2	1335.1	827.2	679.2	611.2	558.6
30°	6301.5	5496.9	4725.6	4045.0	3488.3	2892.3	2143.0	1382.9	875.8	711.4	628.9
27.5°	8771.3	7233.0	6206.6	5308.0	4565.4	3937.1	3180.2	2168.9	1207.0	868.2	720.9
25°	12151.7	10423.5	8669.4	7383.5	6306.0	5232.0	4430.4	3206.9	1974.3	1054.6	823.6
22.5°	16170.3	14033.4	12055.1	9961.0	8334.3	6916.1	5602.2	4256.5	2775.1	1482.2	998.1
20°	19731.4	17244.8	15003.8	12682.5	10337.6	8303.1	6591.4	5182.8	3637.2	2158.6	1167.5
17.5°	24150.3	20689.4	17912.4	15413.3	12626.0	10093.6	7925.7	6172.4	4442.3	2723.2	1306.5
15°	29032.2	24582.0	20860.8	17699.1	14778.7	11915.2	9383.7	7230.6	5341.3	3320.3	1716.4
12.5°	34276.7	28872.9	23883.7	19940.2	16467.6	13340.7	10374.8	8150.5	6176.1	4038.2	2168.0
10°	37803.9	32218.9	26855.6	22324.2	18285.0	14512.4	11222.2	8718.3	6718.6	4666.7	2610.2
7.5°	41486.7	34876.8	29051.5	24073.0	19867.3	15926.6	12060.4	9157.0	7135.9	5135.9	2953.7
5°	43691.2	36719.2	30659.8	25446.2	21003.6	17063.1	13052.1	9547.8	7480.7	5488.0	3216.2
2.5°	45428.6	37861.6	31535.1	26176.9	21779.9	17744.9	13872.1	9932.1	7666.2	5653.4	3289.3
0°	46940.6	38684.7	32229.4	26736.5	22268.2	18181.6	14289.6	10306.3	7722.4	5694.3	3276.5
-2.5°	46876.5	38412.9	31829.6	26461.1	22054.1	18042.8	14340.5	10787.5	8116.0	5728.9	3281.3
-5°	46924.5	38426.5	31569.1	26273.3	21863.5	17859.9	14192.3	10928.1	8323.2	5682.1	3206.8
-7.5°	45669.1	37743.2	31092.5	25879.9	21535.1	17524.1	13834.9	10751.2	8332.6	5684.8	3085.4
-10°	43197.5	36109.2	29960.3	25044.4	20885.3	16936.1	13311.3	10459.8	8107.1	5459.1	2877.1
-12.5°	40475.3	34156.9	28428.1	23786.9	19854.8	16079.6	12649.0	10043.2	7696.5	5035.8	2673.2
-15°	36892.3	31873.3	27099.0	22510.5	18557.2	15023.5	11888.7	9519.3	7175.4	4486.2	2356.6
-17.5°	33373.1	29071.7	24923.3	21016.0	17164.2	13867.1	11167.3	8829.4	6434.2	3858.5	1941.2
-20°	29939.7	26245.1	22650.6	19019.8	15597.4	12559.5	10260.6	7991.8	5507.5	3243.4	1873.8



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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°	26586.1	23627.0	20427.9	16942.2	13962.2	11427.6	9192.0	6954.8	4448.8	2520.0	1784.1
-25°	23255.6	20799.7	17899.5	15223.1	12506.6	10177.4	8027.8	5671.4	3543.0	2095.3	1664.3
-27.5°	19918.4	17628.6	15546.2	13337.7	11163.5	8867.5	6598.3	4334.2	2536.6	1902.5	1597.9
-30°	16674.1	14921.0	13184.2	11433.3	9568.3	7396.4	4987.8	3180.1	2101.1	1720.0	1512.0
-32.5°	13855.7	12492.4	11056.9	9524.6	7696.9	5689.4	3680.1	2294.2	1851.4	1617.9	1459.4
-35°	11419.3	10183.1	8975.5	7379.5	5521.5	3855.0	2434.8	1982.2	1699.1	1519.3	1412.3
-37.5°	9149.9	7917.2	6528.5	5050.4	3541.9	2427.0	2049.1	1771.7	1570.0	1457.2	1349.4
-40°	6623.2	5353.1	4131.5	2888.4	2340.3	2023.1	1807.5	1626.4	1505.5	1387.9	1281.4
-42.5°	4024.4	2981.9	2383.6	2170.8	1955.0	1796.9	1649.0	1545.8	1434.7	1322.2	1179.5
-45°	2291.9	2110.8	1948.6	1857.6	1740.3	1649.9	1566.8	1463.6	1360.8	1215.3	1063.7
-47.5°	1870.4	1795.2	1723.9	1679.7	1624.4	1556.8	1468.3	1370.0	1229.5	1086.2	959.0
-50°	1659.1	1631.9	1604.4	1572.7	1517.2	1449.8	1342.3	1217.4	1089.9	972.5	854.9
-52.5°	1556.8	1522.7	1488.5	1453.4	1381.3	1285.8	1179.5	1069.8	959.3	856.7	753.6
-55°	1433.6	1380.5	1325.3	1264.7	1197.5	1114.9	1026.0	928.0	834.1	740.4	661.8
-57.5°	1231.2	1176.9	1130.5	1078.1	1019.9	952.1	880.4	795.7	716.4	643.8	575.6
-60°	1035.9	985.7	947.6	904.9	857.6	801.3	744.3	678.9	608.6	550.7	494.9
-62.5°	855.9	813.7	781.8	749.6	714.0	672.3	622.5	572.5	516.6	463.8	424.7
-65°	697.7	665.0	637.9	614.6	588.1	558.8	517.2	479.2	438.6	398.5	364.2
-67.5°	564.5	539.9	518.3	499.0	482.6	464.2	436.0	405.1	375.4	347.9	324.6
-70°	461.4	444.7	429.7	415.6	403.4	392.2	374.6	353.6	330.0	307.1	287.5
-72.5°	388.1	376.9	366.7	358.2	348.7	339.5	326.0	308.5	289.7	270.2	253.9
-75°	335.4	326.4	317.8	310.3	302.1	293.5	283.9	271.2	258.2	244.6	232.0
-77.5°	294.2	286.9	279.7	274.3	268.8	263.1	255.6	244.8	234.7	224.1	214.2
-80°	263.7	257.3	251.2	247.5	243.5	238.7	233.0	224.5	216.1	207.0	198.2
-82.5°	240.2	234.5	228.9	225.4	221.6	216.9	211.9	204.9	197.7	189.8	182.0
-85°	217.4	212.9	208.4	204.9	201.2	196.8	192.3	186.1	179.9	172.8	165.6
-87.5°	197.4	193.4	189.5	186.7	183.8	179.5	175.2	169.8	164.3	158.1	151.9
-90°	1.9	1.9	1.9	2.2	2.5	2.5	2.5	2.8	3.1	3.4	3.7





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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°	136.5	131.2	126.2	121.2	117.2	113.2	108.8	104.4	97.3	90.1	80.2
87.5°	3.9	4.2	4.4	4.7	4.7	4.7	5.0	5.3	5.3	5.4	5.7
85°	4.3	4.6	4.8	5.0	5.0	5.0	5.3	5.5	5.7	5.8	6.0
82.5°	4.7	5.0	5.0	5.0	5.4	5.6	5.7	5.8	6.1	6.2	6.4
80°	4.8	5.0	5.1	5.3	5.7	6.2	6.1	6.1	6.5	6.7	6.8
77.5°	5.0	5.2	5.4	5.6	5.9	6.2	6.3	6.4	6.9	7.2	7.2
75°	5.4	5.5	5.5	5.8	6.1	6.3	6.5	6.7	7.2	7.6	7.6
72.5°	5.9	5.9	5.7	5.9	6.4	6.7	6.8	7.0	7.5	7.9	8.0
70°	6.6	6.3	6.1	6.3	6.7	7.1	7.4	7.6	7.8	8.2	8.4
67.5°	7.5	7.1	6.7	6.9	7.2	7.8	8.0	8.3	8.5	8.6	8.9
65°	10.3	9.0	7.5	7.8	7.9	8.5	8.9	9.2	9.2	9.5	9.4
62.5°	14.4	12.2	10.8	9.6	9.3	10.1	10.0	10.7	10.2	10.4	10.3
60°	19.7	16.2	14.6	13.2	12.4	12.3	12.7	12.5	12.3	11.3	11.2
57.5°	24.6	20.0	19.5	17.7	17.1	16.1	16.2	15.9	14.9	14.0	12.3
55°	29.1	25.1	25.2	23.8	23.3	21.5	21.3	20.5	18.5	17.3	13.6
52.5°	33.8	32.3	31.9	32.3	31.9	28.6	28.2	25.6	24.1	21.1	17.1
50°	41.0	42.4	40.8	43.3	41.9	39.9	35.9	33.1	30.1	25.6	20.9
47.5°	59.5	60.5	55.9	57.7	55.5	52.5	47.2	41.4	36.4	31.4	24.8
45°	103.4	88.9	83.3	78.0	73.2	69.2	60.6	50.3	44.5	37.3	28.8
42.5°	163.6	143.9	128.3	101.4	99.5	88.5	75.7	63.7	52.9	43.5	33.6
40°	258.0	221.3	187.3	157.6	132.3	109.9	95.7	78.5	61.6	50.3	39.1
37.5°	358.5	311.9	267.3	221.6	175.7	144.5	117.8	94.2	72.1	58.2	44.7
35°	447.9	406.5	344.9	291.8	239.1	180.8	141.6	112.4	86.2	66.3	50.3
32.5°	524.7	485.0	418.0	359.0	290.4	218.0	171.6	133.0	100.7	74.6	56.3
30°	586.4	541.3	485.1	412.3	333.2	260.0	202.8	153.2	115.3	83.1	62.6
27.5°	646.6	595.5	544.2	461.2	373.0	296.0	228.9	173.1	130.2	92.6	69.4
25°	718.7	652.1	595.7	514.4	412.0	325.1	252.2	192.5	146.1	103.6	76.0
22.5°	808.7	707.8	647.9	570.4	456.6	353.8	275.0	213.1	159.9	114.0	82.3
20°	887.3	757.2	697.9	622.3	505.0	390.4	298.6	230.3	172.9	123.8	88.3
17.5°	970.2	808.9	730.0	659.3	552.0	427.4	323.2	246.5	185.1	132.8	94.0
15°	1081.4	864.7	759.4	691.1	592.3	462.8	347.3	261.9	196.5	141.3	99.6
12.5°	1172.9	916.8	788.3	716.1	623.5	495.0	370.4	276.3	207.0	149.7	105.0
10°	1260.9	972.3	819.8	739.8	649.8	523.8	392.1	291.6	219.3	158.1	110.1
7.5°	1357.9	1024.6	850.2	762.3	672.0	547.9	414.5	309.8	231.3	165.9	114.9
5°	1436.3	1071.1	881.5	787.6	693.3	566.4	434.7	327.0	242.3	173.0	119.3
2.5°	1458.9	1109.9	912.0	811.4	711.5	580.9	452.3	342.8	252.3	179.3	123.3
0°	1464.8	1141.5	939.4	832.5	726.2	591.9	467.5	356.9	261.1	184.7	126.8
-2.5°	1495.8	1167.0	964.0	862.8	752.5	606.1	476.1	364.2	268.5	191.0	132.0
-5°	1513.0	1184.9	985.8	889.7	774.0	616.7	482.2	369.6	274.5	196.4	136.6
-7.5°	1522.7	1197.9	1005.5	912.1	789.9	623.4	485.6	373.1	279.1	200.7	140.8
-10°	1518.0	1204.1	1022.5	924.7	797.4	629.7	487.3	374.7	282.1	204.1	144.4
-12.5°	1525.0	1205.6	1036.0	934.0	800.0	635.6	493.2	377.3	283.7	206.3	147.5
-15°	1525.2	1220.3	1057.9	941.6	798.5	637.1	495.5	378.7	284.2	207.6	149.9
-17.5°	1490.6	1221.5	1078.1	952.7	794.0	634.2	493.9	377.1	283.0	207.9	152.0
-20°	1480.5	1231.6	1089.7	958.2	784.0	627.6	488.5	372.4	280.1	207.1	153.8



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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°	1466.6	1253.8	1102.8	946.1	769.8	617.4	480.7	365.0	275.4	205.2	155.0
-25°	1423.6	1268.0	1109.0	932.2	754.6	606.2	471.4	358.5	269.1	202.3	155.7
-27.5°	1398.3	1261.2	1105.3	909.1	738.3	590.2	461.7	353.7	264.8	198.3	155.8
-30°	1382.8	1240.4	1072.5	879.1	714.4	571.0	449.3	346.2	261.3	196.6	155.3
-32.5°	1347.1	1215.4	1023.1	845.0	687.8	548.5	434.2	335.9	256.1	196.5	155.0
-35°	1293.5	1152.8	964.6	802.0	658.2	528.6	417.1	322.6	249.0	195.3	154.4
-37.5°	1231.0	1064.9	911.3	756.5	620.1	504.0	399.7	310.7	240.2	193.3	153.5
-40°	1133.1	979.0	839.7	708.4	582.3	473.5	379.4	299.1	234.9	190.2	151.9
-42.5°	1030.9	894.3	769.0	651.1	541.8	444.6	357.2	285.6	230.4	187.2	149.7
-45°	933.6	808.9	697.4	596.0	498.6	413.3	339.2	271.4	224.7	183.9	147.5
-47.5°	835.8	729.3	629.8	538.0	460.8	382.2	317.5	263.4	217.9	179.8	145.8
-50°	746.4	651.4	564.0	486.1	416.6	356.0	296.8	254.0	211.7	174.6	143.5
-52.5°	661.5	577.4	502.5	434.4	379.5	327.9	282.6	242.7	204.3	170.1	140.7
-55°	581.4	508.4	443.4	389.8	343.3	306.2	267.0	231.2	195.8	165.8	137.7
-57.5°	508.6	442.3	394.5	349.8	314.0	284.3	251.8	218.8	189.1	160.8	136.1
-60°	438.9	392.8	350.5	317.9	289.0	263.0	236.4	206.9	182.6	155.8	133.9
-62.5°	383.9	346.1	317.6	289.9	265.0	242.7	221.0	197.4	175.0	152.6	131.3
-65°	338.7	312.4	286.3	263.9	242.0	223.5	208.6	187.4	169.1	149.0	128.2
-67.5°	301.7	280.0	258.5	238.2	222.9	209.3	195.3	179.6	163.5	145.0	124.5
-70°	268.5	249.2	233.5	220.3	207.6	195.6	185.6	172.5	157.5	140.1	120.5
-72.5°	241.2	228.4	215.4	203.5	194.6	185.6	176.5	165.1	150.7	134.8	116.2
-75°	220.5	210.5	200.8	191.8	183.7	175.5	167.1	157.2	143.7	129.2	111.2
-77.5°	205.4	196.7	188.1	179.8	172.4	164.9	157.5	149.0	136.2	122.5	105.6
-80°	190.4	182.6	174.9	167.5	160.8	154.1	147.2	139.4	127.5	115.4	99.9
-82.5°	175.1	168.2	161.3	154.4	148.3	142.0	135.9	129.3	118.7	108.0	94.4
-85°	159.5	153.2	147.0	140.8	135.3	129.8	125.0	119.9	111.1	102.2	89.8
-87.5°	146.5	141.1	135.8	130.5	126.0	121.5	116.9	112.2	104.2	96.2	85.1
-90°	3.7	3.7	4.1	4.4	4.4	4.4	4.7	5.0	5.0	5.0	5.3



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	70.3	58.1	46.0	32.9	19.9	13.3	6.8
87.5°	5.9	5.9	5.8	5.8	5.8	6.3	6.8
85°	6.2	6.1	6.0	6.0	5.9	6.5	6.8
82.5°	6.5	6.4	6.2	6.2	6.1	6.6	6.8
80°	6.8	6.6	6.4	6.4	6.3	6.8	6.8
77.5°	7.2	6.9	6.7	6.6	6.5	6.9	6.8
75°	7.6	7.4	6.9	6.8	6.7	7.0	6.8
72.5°	7.9	7.8	7.4	7.0	6.9	7.2	6.8
70°	8.4	8.2	7.8	7.3	7.1	7.3	6.8
67.5°	8.9	8.7	8.3	7.6	7.3	7.5	6.8
65°	9.4	9.2	8.7	8.0	7.5	7.6	6.8
62.5°	10.0	9.7	9.2	8.4	7.7	7.8	6.8
60°	10.6	10.2	9.6	8.7	8.0	7.9	6.8
57.5°	11.8	10.8	10.2	9.1	8.4	8.1	6.8
55°	13.2	11.3	10.9	9.5	8.8	8.2	6.8
52.5°	14.7	12.0	11.6	9.8	9.3	8.4	6.8
50°	16.3	13.8	12.4	10.2	9.7	8.6	6.8
47.5°	18.3	15.6	13.3	10.6	10.2	8.7	6.8
45°	21.7	17.5	14.1	11.3	10.8	8.9	6.8
42.5°	25.1	19.5	15.1	12.0	11.3	9.0	6.8
40°	28.8	21.6	16.4	13.0	11.9	9.2	6.8
37.5°	32.7	23.7	18.0	14.3	12.5	9.3	6.8
35°	36.7	26.6	19.7	15.5	13.1	9.5	6.8
32.5°	41.0	29.8	21.4	16.8	13.7	9.6	6.8
30°	46.0	32.9	23.0	18.2	14.4	9.8	6.8
27.5°	50.9	36.0	25.3	19.5	15.0	9.9	6.8
25°	55.7	39.1	27.6	20.8	15.7	10.1	6.8
22.5°	60.3	42.2	29.9	22.2	16.3	10.2	6.8
20°	64.8	45.6	32.1	23.6	17.0	10.3	6.8
17.5°	69.2	48.8	34.3	24.9	17.7	10.5	6.8
15°	73.6	51.9	36.4	26.3	18.3	10.6	6.8
12.5°	77.7	54.9	38.4	27.6	18.9	10.7	6.8
10°	81.5	57.7	40.3	28.9	19.6	10.8	6.8
7.5°	85.0	60.3	42.2	30.1	20.2	10.9	6.8
5°	88.3	62.7	44.0	31.3	20.7	11.0	6.8
2.5°	91.2	65.0	45.7	32.5	21.3	11.1	6.8
0°	93.9	67.1	47.3	33.6	21.8	11.2	6.8
-2.5°	97.9	70.2	49.5	35.1	22.7	11.6	6.8
-5°	101.6	73.0	51.6	36.5	23.6	12.0	6.8
-7.5°	104.9	75.7	53.5	37.8	24.5	12.5	6.8
-10°	107.8	78.1	55.3	39.1	25.2	12.9	6.8
-12.5°	110.4	80.2	57.0	40.2	26.0	13.2	6.8
-15°	112.6	82.1	58.5	41.3	26.7	13.6	6.8
-17.5°	114.3	83.7	59.9	42.3	27.3	13.9	6.8
-20°	115.9	85.0	61.1	43.2	27.9	14.3	6.8



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	117.5	86.0	62.1	44.0	28.4	14.6	6.8
-25°	118.6	87.2	63.0	44.7	28.9	14.9	6.8
-27.5°	119.3	88.4	63.7	45.3	29.3	15.1	6.8
-30°	119.5	89.2	64.3	45.8	29.6	15.4	6.8
-32.5°	119.3	89.8	65.4	46.1	29.8	15.6	6.8
-35°	119.3	90.0	66.3	46.4	30.1	15.8	6.8
-37.5°	119.3	90.3	67.0	46.6	30.2	15.9	6.8
-40°	118.9	91.0	67.6	46.7	30.3	16.1	6.8
-42.5°	118.3	91.5	68.0	46.8	30.3	16.2	6.8
-45°	117.2	91.7	68.4	47.0	30.2	16.2	6.8
-47.5°	115.8	91.7	68.5	47.1	30.1	16.3	6.8
-50°	115.3	91.5	68.4	47.2	29.9	16.3	6.8
-52.5°	114.6	91.1	68.1	47.1	29.6	16.3	6.8
-55°	113.7	90.3	67.6	46.9	29.3	16.3	6.8
-57.5°	112.4	89.2	66.8	46.5	28.9	16.2	6.8
-60°	110.9	87.8	65.9	46.1	28.4	16.1	6.8
-62.5°	108.8	86.2	64.9	45.5	28.1	16.0	6.8
-65°	106.4	84.3	63.8	44.7	27.6	15.9	6.8
-67.5°	103.7	82.3	62.5	43.9	27.1	15.7	6.8
-70°	100.8	80.1	61.1	42.9	26.5	15.6	6.8
-72.5°	97.2	77.6	59.5	42.0	25.8	15.3	6.8
-75°	93.3	74.9	57.7	41.0	25.1	15.1	6.8
-77.5°	89.1	71.9	56.0	39.9	24.4	14.9	6.8
-80°	84.7	69.3	54.2	38.7	23.6	14.6	6.8
-82.5°	81.2	66.7	52.4	37.4	22.7	14.3	6.8
-85°	77.7	64.0	50.3	36.0	21.8	14.0	6.8
-87.5°	74.1	61.1	48.2	34.5	20.9	13.7	6.8
-90°	5.6	5.6	5.6	5.6	5.6	6.2	6.8

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

