

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: P699956 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-80-5L-S**

Issue Date: 8/10/2023

**Test Information**

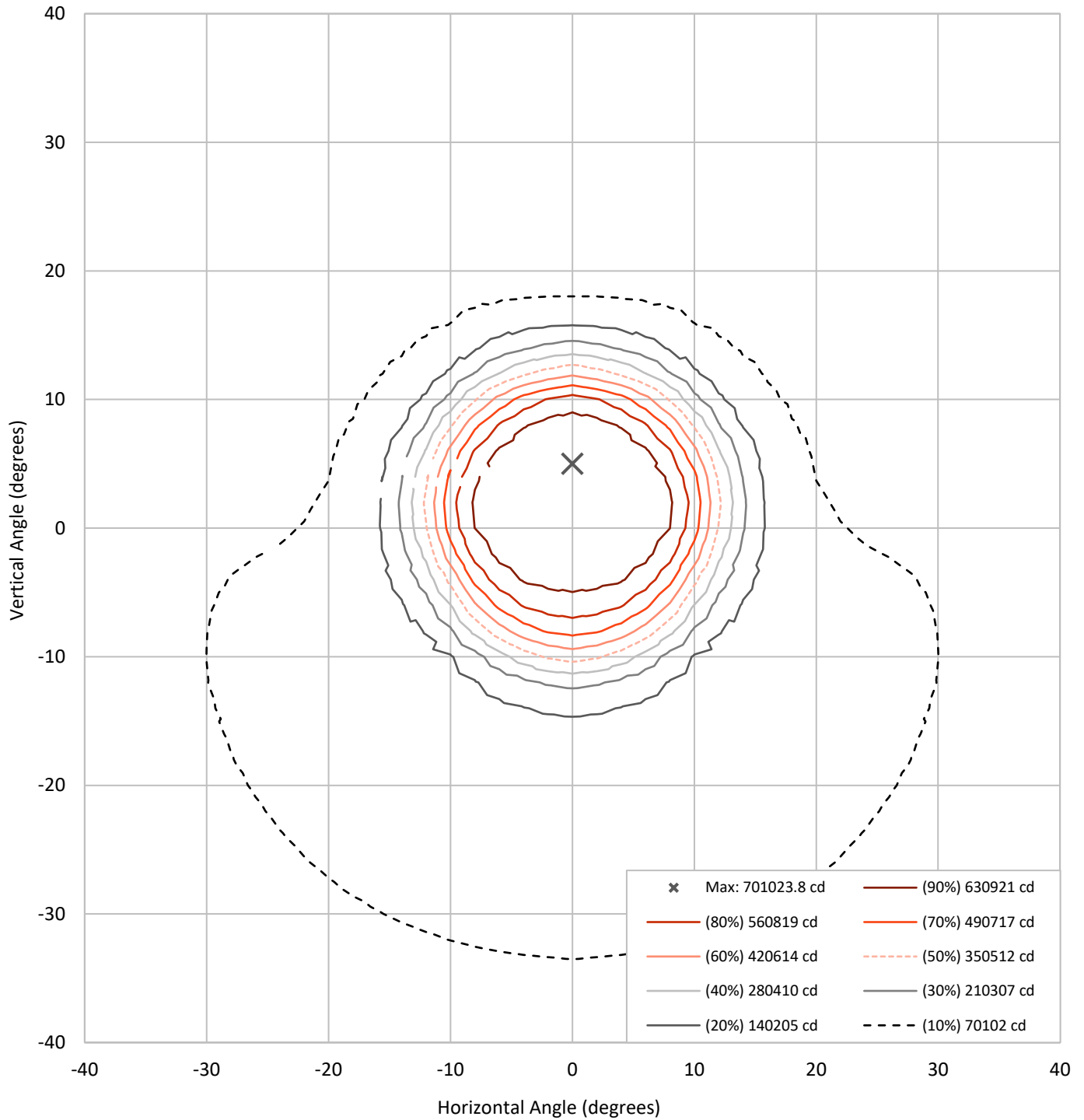
Test Method: LM-79-08  
Report Number: P699956 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200R-40-80-5L-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 4000K, 80 CRI LEDS AND 5L BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 4V
Luminaire Lumens:	165699.4 lumens	Max Intensity:	701023.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	128.6 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	23.3°H x 23°V	Field Angle (10%):	39.5°H x 51.6°V
Beam Lumens:	73536.1 lumens	Field Lumens:	134927.7 lumens
Beam Efficiency:	44.4%	Field Efficiency:	81.4%
Input Watts (W):	1288.4		
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





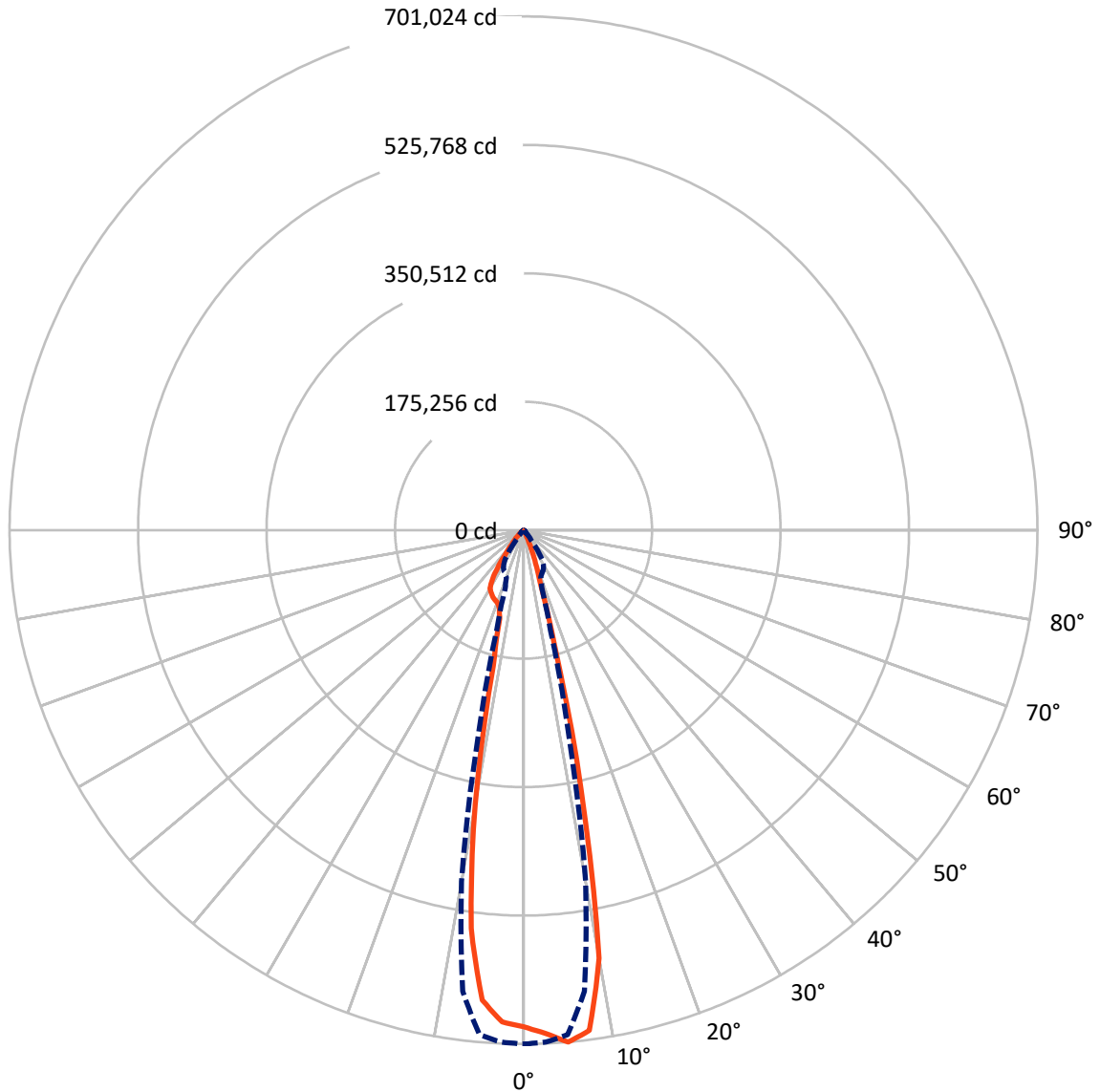
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### Lumen Table

90	0.3	1.1		2.2		3.3		3.8		3.3		2.2		1.1		0.3
80	0.3	1.1		2.2		3.3		3.8		3.3		2.2		1.1		0.3
70	0.5	0.4	0.8	1.4	2.1	2.8	3.5	3.8	3.8	3.5	2.8	2.1	1.4	0.8	0.4	0.5
60		0.6	1.4	2.5	4.1	6.4	11.0	20.4	20.4	11.0	6.4	4.1	2.5	1.4	0.6	
50	0.7	0.9	2.1	4.5	9.3	17.3	28.3	43.6	43.6	28.3	17.3	9.3	4.5	2.1	0.9	0.7
40		1.2	3.3	9.0	20.0	36.3	70.6	93.3	93.3	70.6	36.3	20.0	9.0	3.3	1.2	
30	1.0	1.5	5.2	21.0	66.2	283.1	418.8	512.6	512.6	418.8	283.1	66.2	21.0	5.2	1.5	1.0
20		1.8	8.8	53.1	364.0	1073.5	1851.3	5385.4	5385.4	1851.3	1073.5	364.0	53.1	8.8	1.8	
10	1.1	2.1	13.9	112.8	800.1	1692.5	5350.7	18761.1	18761.1	5350.7	1692.5	800.1	112.8	13.9	2.1	1.1
0		2.3	17.0	147.6	1003.0	2032.0	4493.7	15787.9	15787.9	4493.7	2032.0	1003.0	147.6	17.0	2.3	
-10	1.0	2.2	13.7	118.4	798.3	2216.0	2793.4	4270.6	4270.6	2793.4	2216.0	798.3	118.4	13.7	2.2	1.0
-20		1.9	8.5	62.2	379.7	1532.1	2609.5	2948.7	2948.7	2609.5	1532.1	379.7	62.2	8.5	1.9	
-30	0.8	1.5	4.5	20.4	139.2	501.0	1150.3	1667.5	1667.5	1150.3	501.0	139.2	20.4	4.5	1.5	0.8
-40		1.1	2.7	6.4	28.6	118.3	264.8	381.5	381.5	264.8	118.3	28.6	6.4	2.7	1.1	
-50	0.5	0.7	1.8	3.2	5.8	12.9	30.2	44.6	44.6	30.2	12.9	5.8	3.2	1.8	0.7	0.5
-60		0.4	0.9	1.7	2.6	3.6	4.8	5.6	5.6	4.8	3.6	2.6	1.7	0.9	0.4	
-70	0.3	1.1		2.4		3.7		4.2		3.7		2.4		1.1		0.3
-80		1.1		2.4		3.7		4.2		3.7		2.4		1.1		
-90	0.3	1.1		2.4		3.7		4.2		3.7		2.4		1.1		0.3

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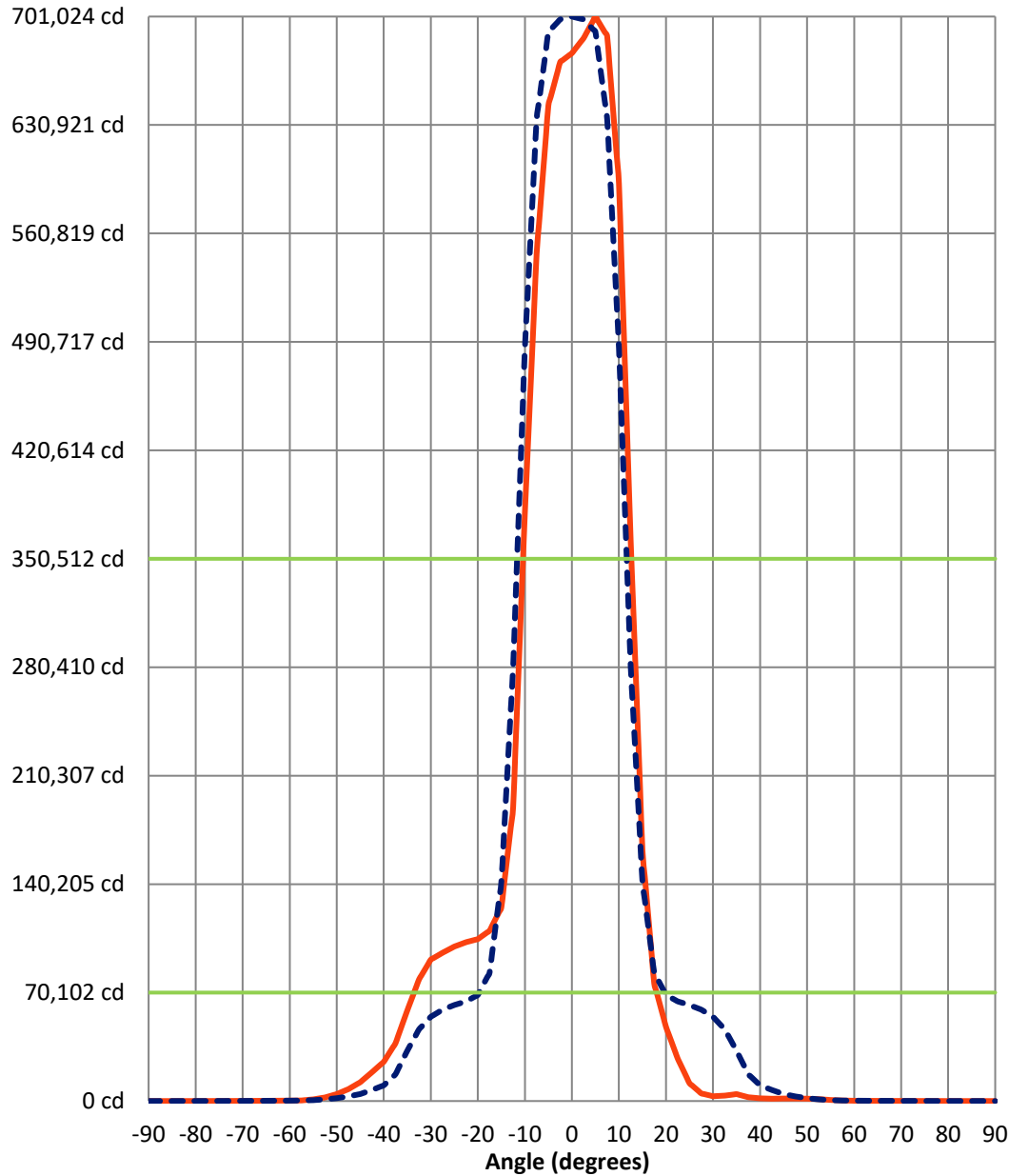
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 5-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 23.3°  
 V Angle: 23°  
 Lumens: 73536.1  
 Efficiency: 44.4%

**Field:**  
 H Angle: 39.5°  
 V Angle: 51.6°  
 Lumens: 134927.7  
 Efficiency: 81.4%

**Spill:**  
 Lumens: 30771.7  
 Efficiency: 18.6%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 5-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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.7	1.5	2.2	3.0	3.7	4.4	5.1	5.7	6.3	6.8
85°	0.0	1.5	3.0	4.5	5.9	7.4	8.8	10.1	11.4	12.6	13.7
82.5°	0.0	2.2	4.5	6.7	8.9	11.1	13.2	15.2	16.8	17.0	17.2
80°	0.0	3.0	5.9	8.9	11.8	14.7	17.2	17.6	18.1	18.4	18.8
77.5°	0.0	3.7	7.4	11.1	14.7	17.4	18.2	18.8	19.3	19.9	20.5
75°	0.0	4.4	8.8	13.2	17.2	18.2	19.1	19.9	20.7	21.6	22.5
72.5°	0.0	5.1	10.3	15.4	17.8	19.0	20.1	21.1	22.2	23.4	24.4
70°	0.0	5.8	11.7	17.2	18.5	19.8	21.1	22.5	23.8	25.1	26.7
67.5°	0.0	6.5	13.1	17.7	19.1	20.5	22.2	23.9	25.4	27.2	29.0
65°	0.0	7.2	14.4	18.1	19.7	21.4	23.4	25.2	27.2	29.3	31.5
62.5°	0.0	7.9	15.8	18.6	20.3	22.3	24.5	26.7	29.0	31.4	34.3
60°	0.0	8.5	17.1	19.0	20.9	23.2	25.6	28.3	30.8	33.8	37.1
57.5°	0.0	9.2	17.4	19.4	21.6	24.1	26.9	29.8	32.8	36.2	40.9
55°	0.0	9.8	17.7	19.8	22.3	25.0	28.2	31.3	34.8	38.9	45.2
52.5°	0.0	10.4	17.9	20.2	23.0	25.9	29.4	33.0	36.7	42.7	49.4
50°	0.0	11.0	18.2	20.6	23.6	26.9	30.7	34.6	39.0	46.4	56.1
47.5°	0.0	11.6	18.4	21.0	24.2	28.0	31.9	36.2	42.3	50.1	62.9
45°	0.0	12.1	18.7	21.5	24.8	29.0	33.3	37.9	45.6	55.9	69.4
42.5°	0.0	12.6	18.9	21.9	25.4	29.9	34.7	40.2	48.9	61.4	76.0
40°	0.0	13.1	19.1	22.3	26.1	30.9	36.0	43.0	52.6	66.7	82.6
37.5°	0.0	13.6	19.3	22.7	26.8	31.8	37.2	45.7	57.4	72.3	89.1
35°	0.0	14.0	19.5	23.1	27.5	32.7	38.4	48.3	61.9	78.1	94.8
32.5°	0.0	14.4	19.7	23.4	28.1	33.7	39.9	50.8	66.2	83.6	99.4
30°	0.0	14.8	19.9	23.8	28.7	34.6	41.9	53.5	70.3	88.8	103.8
27.5°	0.0	15.2	20.0	24.1	29.3	35.4	43.8	56.8	74.4	93.7	108.2
25°	0.0	15.5	20.2	24.3	29.8	36.2	45.6	59.9	78.4	97.6	112.4
22.5°	0.0	15.8	20.3	24.6	30.3	37.0	47.3	62.8	82.1	101.0	118.0
20°	0.0	16.1	20.4	24.8	30.7	37.7	48.8	65.5	85.5	104.2	123.1
17.5°	0.0	16.3	20.5	25.0	31.1	38.3	50.2	67.9	88.5	107.2	127.9
15°	0.0	16.5	20.6	25.2	31.4	38.9	51.4	70.1	91.3	110.0	132.2
12.5°	0.0	16.7	20.7	25.4	31.7	39.4	52.4	71.9	93.9	112.5	136.1
10°	0.0	16.8	20.8	25.5	31.9	39.8	53.3	73.5	96.5	115.6	140.4
7.5°	0.0	17.0	20.8	25.6	32.1	40.2	54.0	74.8	98.7	118.5	146.0
5°	0.0	17.0	20.9	25.6	32.2	40.5	54.5	75.8	100.7	121.1	151.4
2.5°	0.0	17.1	20.9	25.7	32.3	40.7	54.9	76.6	102.4	123.4	156.3
0°	0.0	17.1	20.9	25.7	32.3	40.9	55.1	77.0	103.6	125.4	160.6
-2.5°	0.0	17.1	20.9	25.7	32.3	41.0	55.2	77.1	103.9	126.6	164.0
-5°	0.0	17.0	20.9	25.6	32.2	40.9	55.0	77.0	103.8	127.3	166.5
-7.5°	0.0	17.0	20.8	25.6	32.1	40.8	54.8	76.5	103.2	127.6	168.0
-10°	0.0	16.8	20.8	25.5	31.9	40.6	54.3	75.7	102.2	127.3	168.4
-12.5°	0.0	16.7	20.7	25.4	31.7	40.3	53.7	74.6	100.7	126.4	165.1
-15°	0.0	16.5	20.6	25.2	31.4	39.9	52.9	73.2	98.8	124.1	160.0
-17.5°	0.0	16.3	20.5	25.0	31.1	39.4	52.0	71.4	96.4	121.5	154.2
-20°	0.0	16.1	20.4	24.8	30.7	38.8	50.8	69.3	93.5	118.5	147.8



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	15.8	20.3	24.6	30.3	38.1	49.5	66.8	90.2	115.2	140.9
-25°	0.0	15.5	20.2	24.3	29.8	37.3	48.0	64.0	86.5	111.6	133.6
-27.5°	0.0	15.2	20.0	24.1	29.3	36.4	46.4	60.9	82.4	107.4	128.9
-30°	0.0	14.8	19.9	23.8	28.7	35.3	44.6	57.4	78.3	102.3	124.0
-32.5°	0.0	14.4	19.7	23.4	28.1	34.2	42.7	54.8	74.0	96.8	118.9
-35°	0.0	14.0	19.5	23.1	27.5	32.9	41.1	52.4	69.3	90.8	113.5
-37.5°	0.0	13.6	19.3	22.7	26.8	31.8	39.5	49.8	64.2	84.4	106.7
-40°	0.0	13.1	19.1	22.3	26.1	30.9	37.8	47.1	58.7	78.0	98.8
-42.5°	0.0	12.6	18.9	21.9	25.4	29.9	36.0	44.3	54.7	71.3	90.5
-45°	0.0	12.1	18.7	21.4	24.8	29.0	34.1	41.6	51.2	64.2	81.8
-47.5°	0.0	11.6	18.4	21.0	24.2	28.0	32.0	39.2	47.7	56.9	73.6
-50°	0.0	11.0	18.2	20.5	23.5	26.9	30.7	36.6	43.9	52.7	65.0
-52.5°	0.0	10.4	17.9	20.1	22.8	25.9	29.4	33.9	40.6	48.3	56.5
-55°	0.0	9.8	17.7	19.7	22.1	24.9	28.2	31.3	37.2	43.8	51.5
-57.5°	0.0	9.2	17.4	19.3	21.3	24.0	26.9	29.8	33.8	39.7	46.3
-60°	0.0	8.5	17.1	18.9	20.5	23.0	25.6	28.3	30.6	35.6	41.3
-62.5°	0.0	7.9	15.8	18.4	19.9	21.9	24.3	26.7	28.8	31.3	36.4
-65°	0.0	7.2	14.4	17.9	19.3	20.9	23.0	25.1	26.9	28.8	31.4
-67.5°	0.0	6.5	13.1	17.5	18.7	19.9	21.6	23.5	25.1	26.7	28.2
-70°	0.0	5.8	11.7	17.0	18.1	19.1	20.3	21.9	23.3	24.6	25.9
-72.5°	0.0	5.1	10.3	15.2	17.4	18.3	19.2	20.2	21.5	22.6	23.6
-75°	0.0	4.4	8.8	13.1	16.8	17.5	18.3	19.0	19.7	20.7	21.6
-77.5°	0.0	3.7	7.4	10.9	14.4	16.7	17.3	17.9	18.4	18.9	19.5
-80°	0.0	3.0	5.9	8.8	11.5	14.2	16.3	16.7	17.1	17.5	17.8
-82.5°	0.0	2.2	4.5	6.6	8.7	10.6	12.6	14.4	15.8	16.0	16.2
-85°	0.0	1.5	3.0	4.4	5.8	7.1	8.4	9.6	10.7	11.8	12.8
-87.5°	0.0	0.7	1.5	2.2	2.9	3.6	4.2	4.8	5.4	5.9	6.4
-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):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	7.8	8.3	8.7	9.1	9.5	9.8	10.1	10.2	10.2	10.2
85°	14.7	15.7	15.7	15.8	15.8	15.7	15.6	15.5	15.2	14.9	14.5
82.5°	17.4	17.6	17.8	17.9	17.9	17.8	17.7	17.6	17.5	17.3	17.2
80°	19.2	19.5	20.0	20.4	20.6	20.6	20.5	20.3	20.3	20.4	20.7
77.5°	21.2	21.9	22.5	23.2	23.4	23.8	24.1	24.6	25.1	25.6	26.0
75°	23.3	24.2	25.2	26.2	27.0	27.7	28.5	29.8	31.2	32.7	34.3
72.5°	25.7	27.0	28.2	29.5	31.2	32.9	34.6	36.4	38.5	40.7	42.7
70°	28.2	29.7	31.8	34.0	36.3	38.6	41.4	44.1	46.6	49.4	52.7
67.5°	30.9	33.4	35.9	38.8	42.4	45.7	48.9	53.6	57.9	61.8	65.3
65°	34.2	37.1	40.8	45.0	49.0	54.7	60.2	65.4	70.4	74.9	78.9
62.5°	37.4	41.9	46.5	52.1	59.1	65.5	71.6	77.5	83.1	87.1	90.8
60°	41.9	47.0	54.0	62.2	69.5	76.3	83.0	88.4	93.2	97.8	104.6
57.5°	46.6	54.2	63.6	72.1	79.7	86.6	92.3	97.8	105.7	113.6	121.8
55°	52.6	63.3	73.0	81.6	89.0	95.0	102.1	111.8	120.8	132.2	143.1
52.5°	60.6	72.0	81.8	90.2	96.7	105.1	115.8	127.9	141.2	154.8	173.0
50°	68.4	80.0	90.0	97.0	106.1	118.0	132.4	148.0	165.9	185.8	207.4
47.5°	75.9	88.0	96.1	104.8	118.0	133.8	151.8	172.3	194.0	220.5	244.5
45°	83.3	94.3	102.2	115.7	131.9	151.9	175.4	197.5	228.9	259.8	297.8
42.5°	90.6	100.1	111.8	126.5	148.6	174.4	201.4	233.5	268.1	310.3	371.3
40°	96.1	105.9	121.8	142.2	167.1	200.1	235.9	272.7	314.6	383.2	464.8
37.5°	101.3	114.8	132.8	158.3	191.8	230.5	271.4	320.5	386.6	469.0	579.1
35°	106.5	123.5	147.6	178.4	217.2	263.9	316.1	382.0	480.0	583.8	693.3
32.5°	113.0	131.7	162.5	201.3	247.4	300.1	361.6	474.8	606.1	728.1	811.4
30°	120.2	144.4	178.8	223.5	277.3	343.2	441.8	581.7	755.5	905.5	1006.7
27.5°	127.2	157.3	198.2	248.6	308.7	387.3	547.3	732.6	935.6	1115.6	1250.8
25°	133.8	169.1	216.8	274.0	348.3	473.5	679.8	925.7	1148.4	1376.6	1579.6
22.5°	141.9	180.2	233.3	298.3	387.8	582.5	861.0	1173.2	1468.7	1704.1	1975.0
20°	151.0	193.7	250.8	322.6	428.8	698.9	1056.6	1458.5	1868.5	2303.0	2820.1
17.5°	159.2	206.1	268.5	358.8	527.0	852.4	1270.8	1772.3	2323.2	3069.9	4200.6
15°	166.5	217.3	284.8	397.6	639.4	1049.5	1575.6	2180.2	2929.5	4082.9	5840.0
12.5°	172.9	227.1	299.5	437.8	753.9	1252.8	1918.0	2729.1	3840.5	5487.3	9093.2
10°	178.3	235.5	312.4	477.9	867.0	1456.7	2277.5	3321.5	4914.4	7100.7	12199.0
7.5°	187.0	244.3	324.5	516.5	975.2	1655.0	2640.8	3934.5	6041.9	8668.3	14963.0
5°	195.6	253.1	340.9	570.4	1090.0	1858.9	2999.5	4542.6	7171.6	10157.4	17356.8
2.5°	203.3	260.3	355.5	623.7	1201.8	2072.9	3357.6	5102.0	8118.9	11524.1	19518.3
0°	210.0	266.0	367.7	670.8	1296.9	2261.2	3673.0	5598.9	8923.2	12744.5	21407.4
-2.5°	216.1	273.5	383.7	704.1	1339.8	2361.1	3845.6	5919.6	9303.6	13373.2	22547.6
-5°	220.8	279.5	396.1	726.3	1360.3	2418.8	3952.3	6135.8	9472.8	13701.6	22976.3
-7.5°	224.1	284.0	404.2	731.9	1332.3	2346.5	3844.0	5993.7	9245.2	13606.9	22586.1
-10°	224.9	284.2	408.5	702.8	1244.9	2181.5	3626.9	5728.2	8833.3	13174.1	21430.7
-12.5°	218.5	279.9	405.6	668.1	1143.7	1980.9	3330.4	5333.2	8232.2	12366.2	19386.5
-15°	210.7	273.0	394.1	629.2	1031.0	1746.4	2951.3	4802.4	7449.5	11180.4	16367.4
-17.5°	201.6	263.1	372.8	587.9	909.0	1479.8	2489.4	4165.1	6627.7	10058.1	14754.8
-20°	191.1	250.2	341.0	545.3	792.3	1250.6	2133.0	3613.4	5810.8	8853.6	12893.5



REPORT NUMBER: P699956 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-5L-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	179.2	233.9	310.4	506.8	707.6	1068.6	1767.7	2969.0	4813.6	7425.4	11004.6
-25°	168.4	219.6	291.2	433.6	615.4	872.3	1360.4	2281.3	3872.6	6230.5	9325.7
-27.5°	159.3	203.9	263.5	361.9	521.6	691.8	1074.7	1805.1	3041.9	4873.2	7505.8
-30°	149.9	186.0	234.3	301.9	438.3	586.7	835.2	1309.8	2223.3	3751.0	5868.7
-32.5°	140.0	168.7	211.0	268.5	362.1	481.7	622.8	987.0	1645.8	2643.8	4273.2
-35°	131.2	157.2	191.1	233.8	293.3	395.8	512.4	699.9	1101.7	1874.5	3081.2
-37.5°	124.7	145.3	171.6	204.7	254.6	323.5	402.0	520.5	765.8	1198.1	2145.6
-40°	118.0	133.3	156.9	184.1	216.9	267.3	331.2	397.4	506.2	842.8	1337.7
-42.5°	110.9	125.7	143.5	164.4	191.7	228.2	269.2	319.8	390.2	545.0	886.2
-45°	101.2	118.2	130.9	149.6	170.2	195.5	229.9	263.3	314.5	386.2	552.2
-47.5°	91.1	109.7	122.8	134.6	151.7	171.7	195.1	226.9	261.1	306.8	352.5
-50°	80.8	98.2	114.2	123.8	135.6	150.6	169.0	192.8	221.6	252.7	289.9
-52.5°	71.0	86.2	101.8	114.4	123.0	133.6	147.5	165.4	187.1	210.3	238.1
-55°	60.8	74.7	88.5	102.0	112.9	120.4	129.8	143.5	157.4	177.0	195.8
-57.5°	53.4	63.2	75.7	88.0	99.7	109.7	116.8	124.5	136.2	148.7	161.8
-60°	47.6	54.0	63.1	74.4	85.1	95.1	104.1	111.2	118.2	125.4	135.9
-62.5°	41.8	47.6	53.4	60.7	70.7	79.9	88.2	96.0	103.1	109.3	115.3
-65°	36.2	41.2	46.3	51.5	56.5	64.6	72.5	79.6	86.1	92.3	98.0
-67.5°	30.4	34.8	39.3	43.8	48.3	52.6	56.9	63.6	69.6	75.0	79.9
-70°	27.3	28.8	32.2	36.1	40.0	43.6	47.3	51.0	54.5	58.4	62.9
-72.5°	24.8	26.0	27.3	28.5	31.7	35.1	38.1	40.8	43.7	46.7	49.4
-75°	22.4	23.3	24.3	25.3	26.4	27.7	29.5	32.1	34.4	36.6	38.6
-77.5°	20.2	20.9	21.6	22.2	22.6	23.4	24.3	25.4	26.6	27.8	29.1
-80°	18.2	18.6	19.0	19.5	19.7	19.9	20.0	20.1	20.2	20.6	21.2
-82.5°	16.4	16.7	16.9	17.0	17.0	16.9	16.8	16.8	16.9	17.0	17.0
-85°	13.8	14.7	14.8	14.9	14.8	14.8	14.7	14.5	14.3	14.1	14.0
-87.5°	6.9	7.4	7.8	8.2	8.6	8.9	9.2	9.4	9.5	9.5	9.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699956 (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°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	9.9	9.5	9.1	8.6	8.1	7.6	7.1	6.5	5.6	4.7
85°	14.2	13.6	13.1	12.5	11.9	11.3	10.6	10.0	9.3	9.1	8.9
82.5°	17.0	16.6	16.1	15.7	15.2	15.3	15.6	15.9	16.3	16.5	16.7
80°	20.9	21.1	21.4	21.7	22.1	23.1	24.2	25.2	26.1	26.6	27.0
77.5°	26.8	28.1	29.4	30.6	31.7	33.0	34.2	35.2	36.2	36.7	37.2
75°	35.9	37.6	39.1	40.5	41.9	43.3	44.7	45.9	47.0	47.7	48.3
72.5°	44.5	46.3	48.5	51.0	53.3	55.6	57.7	59.7	61.5	62.8	63.8
70°	55.6	58.3	61.4	64.3	67.0	69.6	72.2	74.6	76.9	78.5	79.7
67.5°	68.6	71.8	75.3	78.3	81.0	84.0	87.4	90.6	93.6	95.6	96.8
65°	82.3	85.2	88.8	92.4	96.0	100.9	106.1	110.8	115.0	118.1	120.1
62.5°	94.3	99.0	105.1	111.4	117.4	123.6	129.9	135.8	141.2	145.5	148.2
60°	111.2	117.5	125.9	134.4	142.2	149.3	158.8	167.4	175.0	181.4	186.5
57.5°	131.6	141.0	151.1	163.4	175.0	185.8	198.7	215.5	234.1	254.4	283.5
55°	156.8	171.3	183.9	199.5	216.5	233.7	255.3	291.9	333.2	377.5	451.9
52.5°	189.9	207.1	222.7	242.9	273.9	304.1	335.9	403.4	479.0	558.1	698.8
50°	227.8	250.1	279.6	310.1	359.2	411.8	462.3	555.0	662.1	770.5	941.0
47.5°	277.8	311.4	362.9	416.0	478.9	550.4	621.1	723.0	838.1	943.5	1087.7
45°	344.3	410.6	475.3	544.3	617.2	702.9	781.7	867.6	972.6	1059.8	1161.1
42.5°	445.0	527.9	608.1	685.9	769.7	853.0	928.2	1007.4	1092.2	1171.7	1256.2
40°	563.1	654.3	737.5	821.8	889.5	966.8	1038.8	1112.8	1207.7	1321.0	1422.5
37.5°	682.6	770.1	846.5	923.1	986.2	1040.1	1161.3	1285.3	1402.8	1679.6	1927.3
35°	801.3	886.1	944.4	1021.0	1112.3	1236.6	1434.1	1768.2	2066.7	2631.8	3195.6
32.5°	924.6	1016.0	1085.1	1200.6	1362.7	1767.2	2054.4	2899.0	3625.1	3905.2	3791.0
30°	1062.2	1182.7	1372.7	1595.7	2194.3	3150.9	3911.1	4257.2	4080.5	3623.6	3648.9
27.5°	1336.7	1506.9	1937.3	3051.7	4561.8	6192.3	6525.3	5645.0	5988.1	4924.2	5662.8
25°	1807.8	2127.7	3906.1	6920.5	9509.4	10561.6	11359.1	10770.5	11532.7	11564.6	12225.4
22.5°	2615.9	4637.3	8127.0	13019.2	16074.3	17708.4	18711.5	19815.2	21017.2	22806.6	23940.7
20°	4166.6	7948.6	15047.3	20253.1	23805.5	26084.5	27921.6	30348.8	33104.2	36468.9	39170.3
17.5°	7629.5	14435.5	22332.4	27953.5	31826.5	35120.1	38013.1	41358.9	45586.3	50887.6	56124.0
15°	11464.1	21513.8	29666.0	35400.5	39810.6	43664.5	47532.1	51571.1	57268.8	65703.3	78012.0
12.5°	16996.7	28314.5	37015.4	42613.1	47423.0	51184.8	55000.6	60269.4	68758.7	81537.2	130607.6
10°	22705.5	34792.6	43332.9	48871.7	53372.1	57055.7	60724.2	66210.3	82077.4	132257.8	229780.3
7.5°	27876.8	40806.5	49104.7	54445.2	58294.8	61169.2	65109.1	75481.4	110932.7	196329.8	368333.4
5°	32543.6	46364.1	54442.5	59080.7	62064.9	64412.8	68581.2	83002.5	141717.1	280702.5	486638.5
2.5°	36133.7	50952.1	59231.0	63027.1	65191.6	67189.0	71482.0	87347.4	155735.3	323881.6	540174.2
0°	38196.4	53823.5	62930.1	66225.9	67999.7	69744.1	74277.9	90787.6	157308.1	303083.5	520654.2
-2.5°	39935.4	56462.2	66194.0	69469.9	71001.6	72367.9	76573.7	91956.2	141113.0	245592.2	445235.2
-5°	40264.7	57663.3	68406.7	72421.3	73921.9	75035.1	78113.0	90418.9	123070.3	180988.1	320561.1
-7.5°	39152.4	57376.5	69810.7	75179.3	76950.0	78035.2	80276.2	87635.7	105278.8	135429.7	214944.1
-10°	36664.4	55510.4	70236.7	77656.3	80235.6	81422.7	82691.8	85564.4	94099.0	111277.7	134670.9
-12.5°	32457.6	51545.8	69439.6	79790.9	83193.6	84725.8	86005.7	88017.2	91452.0	97176.6	111238.4
-15°	27376.2	45855.5	64731.1	77790.5	84555.2	87588.7	89439.0	90389.8	92106.0	95543.7	100984.8
-17.5°	23499.8	38389.3	57009.2	74147.4	84563.7	88953.7	91353.6	93262.2	94486.1	96649.2	98813.0
-20°	18861.2	29609.4	47528.7	65279.8	79262.3	88226.4	91909.6	94291.1	96365.4	97818.5	99457.3



REPORT NUMBER: P699956 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-5L-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	15826.5	24053.0	36592.5	53933.5	70244.4	81840.6	90127.8	93216.8	95824.8	97410.1	98861.8
-25°	13233.7	18356.6	27721.0	41330.2	57352.1	71623.5	82035.5	89824.2	93009.9	95230.5	96605.1
-27.5°	10878.6	15209.2	20722.6	30061.8	43044.5	56778.8	69101.4	79893.0	85920.1	91371.9	92799.6
-30°	8605.9	12242.5	16671.7	21822.5	30238.3	40194.4	52057.2	62747.5	72217.2	79659.8	83718.7
-32.5°	6707.8	9601.6	13201.1	17231.6	21228.7	28045.3	34551.6	44363.4	53130.8	60845.3	67359.6
-35°	4857.4	7279.3	10008.4	13258.9	16564.8	20170.6	24359.3	29953.7	34980.1	41383.1	47421.1
-37.5°	3416.6	5160.4	7334.7	9712.7	12493.2	15208.7	18111.4	21054.2	23804.2	27765.0	31131.9
-40°	2294.4	3441.5	5021.2	6767.5	8947.1	11048.9	13353.3	15479.6	17512.2	19630.7	21463.6
-42.5°	1387.8	2208.7	3141.5	4461.0	5918.2	7531.5	9326.2	11009.4	12475.4	13925.0	15246.5
-45°	828.1	1293.2	1854.6	2708.1	3575.2	4795.2	6009.0	7116.5	8334.4	9393.6	10273.5
-47.5°	511.9	697.3	1069.3	1501.2	2049.4	2823.5	3578.9	4302.2	5156.9	5919.7	6550.8
-50°	333.0	415.2	587.1	774.3	1123.9	1527.2	1928.5	2394.3	2921.1	3386.8	3759.0
-52.5°	264.2	302.2	342.3	409.1	578.3	761.3	952.0	1229.6	1509.6	1765.6	1963.2
-55°	217.6	240.5	261.7	294.8	331.0	366.1	423.3	566.9	700.2	821.6	915.1
-57.5°	178.4	194.8	212.0	231.5	250.8	269.8	296.2	327.3	357.4	384.2	392.1
-60°	146.2	156.1	170.3	184.3	197.3	209.2	227.8	246.0	262.7	276.8	284.7
-62.5°	121.0	128.5	137.7	146.9	155.8	165.5	177.6	189.9	202.0	213.2	222.5
-65°	103.1	107.9	113.0	118.3	123.6	130.9	138.8	146.2	153.2	159.7	165.5
-67.5°	84.7	89.0	93.0	96.7	100.5	104.5	109.1	113.5	117.8	121.5	124.7
-70°	67.0	70.6	73.6	76.2	79.0	81.9	85.0	87.8	90.2	92.1	93.5
-72.5°	51.9	54.4	56.8	59.6	61.8	63.9	65.9	67.7	69.2	70.2	71.0
-75°	40.5	42.6	44.7	46.7	48.4	50.0	51.4	52.8	54.0	54.7	55.3
-77.5°	30.5	32.1	33.6	35.1	36.5	37.7	38.9	39.8	40.6	41.1	41.4
-80°	21.9	22.9	23.8	24.7	25.5	26.4	27.3	28.1	28.8	29.1	29.3
-82.5°	17.0	17.0	17.1	17.2	17.4	17.5	17.7	17.9	18.1	18.4	18.6
-85°	13.8	13.6	13.2	12.9	12.6	12.0	11.5	10.9	10.3	10.3	10.3
-87.5°	9.3	9.2	9.1	8.9	8.6	8.1	7.6	7.1	6.5	5.8	5.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699956 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-5L-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	2.9	2.9	2.9	2.9	2.9	3.8	4.7	5.6	6.5	7.1
85°	8.7	8.6	8.6	8.6	8.6	8.6	8.7	8.9	9.1	9.3	10.0
82.5°	16.9	17.0	17.1	17.1	17.1	17.0	16.9	16.7	16.5	16.3	15.9
80°	27.2	27.4	27.6	27.6	27.6	27.4	27.2	27.0	26.6	26.1	25.2
77.5°	37.5	37.8	37.5	37.1	37.5	37.8	37.5	37.2	36.7	36.2	35.2
75°	48.8	49.1	49.8	50.4	49.8	49.1	48.8	48.3	47.7	47.0	45.9
72.5°	64.6	65.2	65.9	66.5	65.9	65.2	64.6	63.8	62.8	61.5	59.7
70°	80.6	81.2	81.6	81.7	81.6	81.2	80.6	79.7	78.5	76.9	74.6
67.5°	97.7	98.2	98.6	98.8	98.6	98.2	97.7	96.8	95.6	93.6	90.6
65°	121.6	122.5	123.2	123.5	123.2	122.5	121.6	120.1	118.1	115.0	110.8
62.5°	150.3	151.7	151.0	149.2	151.0	151.7	150.3	148.2	145.5	141.2	135.8
60°	190.9	194.3	195.3	194.8	195.3	194.3	190.9	186.5	181.4	175.0	167.4
57.5°	314.3	345.2	360.6	365.8	360.6	345.2	314.3	283.5	254.4	234.1	215.5
55°	532.6	614.5	666.8	696.4	666.8	614.5	532.6	451.9	377.5	333.2	291.9
52.5°	864.9	1035.5	1159.1	1239.9	1159.1	1035.5	864.9	698.8	558.1	479.0	403.4
50°	1146.5	1348.9	1482.0	1548.6	1482.0	1348.9	1146.5	941.0	770.5	662.1	555.0
47.5°	1277.8	1461.0	1586.4	1650.3	1586.4	1461.0	1277.8	1087.7	943.5	838.1	723.0
45°	1319.7	1468.6	1573.9	1624.7	1573.9	1468.6	1319.7	1161.1	1059.8	972.6	867.6
42.5°	1367.0	1455.0	1507.1	1515.4	1507.1	1455.0	1367.0	1256.2	1171.7	1092.2	1007.4
40°	1537.5	1647.4	1732.7	1769.1	1732.7	1647.4	1537.5	1422.5	1321.0	1207.7	1112.8
37.5°	2150.7	2334.5	2457.9	2479.7	2457.9	2334.5	2150.7	1927.3	1679.6	1402.8	1285.3
35°	3670.2	4049.0	4319.7	4474.0	4319.7	4049.0	3670.2	3195.6	2631.8	2066.7	1768.2
32.5°	3656.6	3575.8	3528.4	3514.4	3528.4	3575.8	3656.6	3791.0	3905.2	3625.1	2899.0
30°	3347.1	3246.0	3121.6	3117.2	3121.6	3246.0	3347.1	3648.9	3623.6	4080.5	4257.2
27.5°	5489.2	5327.2	4913.2	4945.2	4913.2	5327.2	5489.2	5662.8	4924.2	5988.1	5645.0
25°	12791.3	12848.9	12515.0	11511.3	12515.0	12848.9	12791.3	12225.4	11564.6	11532.7	10770.5
22.5°	25399.3	26119.7	27189.7	27414.8	27189.7	26119.7	25399.3	23940.7	22806.6	21017.2	19815.2
20°	42301.6	44308.2	47055.4	47962.4	47055.4	44308.2	42301.6	39170.3	36468.9	33104.2	30348.8
17.5°	64241.2	70694.5	76134.2	76051.7	76134.2	70694.5	64241.2	56124.0	50887.6	45586.3	41358.9
15°	105962.7	133298.5	154091.7	162181.1	154091.7	133298.5	105962.7	78012.0	65703.3	57268.8	51571.1
12.5°	194782.2	274375.7	327304.6	361971.9	327304.6	274375.7	194782.2	130607.6	81537.2	68758.7	60269.4
10°	371832.2	494450.5	559175.2	593119.4	559175.2	494450.5	371832.2	229780.3	132257.8	82077.4	66210.3
7.5°	543388.0	634386.5	677790.6	688328.7	677790.6	634386.5	543388.0	368333.4	196329.8	110932.7	75481.4
5°	634663.5	691103.0	699133.3	701023.8	699133.3	691103.0	634663.5	486638.5	280702.5	141717.1	83002.5
2.5°	669196.6	693306.3	689241.3	687094.6	689241.3	693306.3	669196.6	540174.2	323881.6	155735.3	87347.4
0°	659149.1	689210.4	680042.1	677318.1	680042.1	689210.4	659149.1	520654.2	303083.5	157308.1	90787.6
-2.5°	606703.8	668074.8	672045.1	671579.1	672045.1	668074.8	606703.8	445235.2	245592.2	141113.0	91956.2
-5°	505348.3	602757.6	635260.5	643545.3	635260.5	602757.6	505348.3	320561.1	180988.1	123070.3	90418.9
-7.5°	353550.9	471186.0	529532.1	547630.6	529532.1	471186.0	353550.9	214944.1	135429.7	105278.8	87635.7
-10°	196349.9	290481.9	355128.8	380132.3	355128.8	290481.9	196349.9	134670.9	111277.7	94099.0	85564.4
-12.5°	127242.5	154551.9	180301.4	189773.1	180301.4	154551.9	127242.5	111238.4	97176.6	91452.0	88017.2
-15°	109848.7	118224.2	123401.2	125097.2	123401.2	118224.2	109848.7	100984.8	95543.7	92106.0	90389.8
-17.5°	102878.5	105945.0	108143.6	110121.9	108143.6	105945.0	102878.5	98813.0	96649.2	94486.1	93262.2
-20°	101133.9	102985.8	103865.1	104694.1	103865.1	102985.8	101133.9	99457.3	97818.5	96365.4	94291.1



REPORT NUMBER: P699956 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	99893.5	100993.9	101794.3	102678.9	101794.3	100993.9	99893.5	98861.8	97410.1	95824.8	93216.8
-25°	97559.2	98421.0	99074.3	99844.8	99074.3	98421.0	97559.2	96605.1	95230.5	93009.9	89824.2
-27.5°	93903.2	94738.8	95217.0	95850.6	95217.0	94738.8	93903.2	92799.6	91371.9	85920.1	79893.0
-30°	86779.5	88897.6	90129.7	91420.4	90129.7	88897.6	86779.5	83718.7	79659.8	72217.2	62747.5
-32.5°	72293.4	75580.2	77565.9	78643.6	77565.9	75580.2	72293.4	67359.6	60845.3	53130.8	44363.4
-35°	52025.1	55010.3	56859.2	58591.0	56859.2	55010.3	52025.1	47421.1	41383.1	34980.1	29953.7
-37.5°	33722.1	35491.8	36611.6	37396.4	36611.6	35491.8	33722.1	31131.9	27765.0	23804.2	21054.2
-40°	23093.6	24375.4	25189.9	25382.6	25189.9	24375.4	23093.6	21463.6	19630.7	17512.2	15479.6
-42.5°	16566.8	17683.0	18426.6	18646.4	18426.6	17683.0	16566.8	15246.5	13925.0	12475.4	11009.4
-45°	11061.5	11710.4	12100.3	12161.1	12100.3	11710.4	11061.5	10273.5	9393.6	8334.4	7116.5
-47.5°	7031.1	7389.0	7624.7	7735.6	7624.7	7389.0	7031.1	6550.8	5919.7	5156.9	4302.2
-50°	4047.7	4266.0	4419.7	4505.3	4419.7	4266.0	4047.7	3759.0	3386.8	2921.1	2394.3
-52.5°	2114.3	2225.1	2299.2	2336.3	2299.2	2225.1	2114.3	1963.2	1765.6	1509.6	1229.6
-55°	994.5	1058.1	1090.3	1093.6	1090.3	1058.1	994.5	915.1	821.6	700.2	566.9
-57.5°	394.4	392.0	390.7	388.6	390.7	392.0	394.4	392.1	384.2	357.4	327.3
-60°	290.3	293.7	297.3	300.2	297.3	293.7	290.3	284.7	276.8	262.7	246.0
-62.5°	230.7	237.6	241.0	242.3	241.0	237.6	230.7	222.5	213.2	202.0	189.9
-65°	170.8	175.4	177.2	177.7	177.2	175.4	170.8	165.5	159.7	153.2	146.2
-67.5°	127.5	129.7	130.8	131.1	130.8	129.7	127.5	124.7	121.5	117.8	113.5
-70°	94.6	95.3	95.8	96.0	95.8	95.3	94.6	93.5	92.1	90.2	87.8
-72.5°	71.5	71.8	72.1	72.2	72.1	71.8	71.5	71.0	70.2	69.2	67.7
-75°	55.6	55.8	56.0	56.1	56.0	55.8	55.6	55.3	54.7	54.0	52.8
-77.5°	41.5	41.6	41.7	41.8	41.7	41.6	41.5	41.4	41.1	40.6	39.8
-80°	29.4	29.3	29.5	29.5	29.5	29.3	29.4	29.3	29.1	28.8	28.1
-82.5°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.6	18.4	18.1	17.9
-85°	10.4	10.4	10.5	10.5	10.5	10.4	10.4	10.3	10.3	10.3	10.9
-87.5°	4.5	3.8	3.8	3.8	3.8	3.8	4.5	5.2	5.8	6.5	7.1
-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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	8.1	8.6	9.1	9.5	9.9	10.2	10.2	10.2	10.2	10.1
85°	10.6	11.3	11.9	12.5	13.1	13.6	14.2	14.5	14.9	15.2	15.5
82.5°	15.6	15.3	15.2	15.7	16.1	16.6	17.0	17.2	17.3	17.5	17.6
80°	24.2	23.1	22.1	21.7	21.4	21.1	20.9	20.7	20.4	20.3	20.3
77.5°	34.2	33.0	31.7	30.6	29.4	28.1	26.8	26.0	25.6	25.1	24.6
75°	44.7	43.3	41.9	40.5	39.1	37.6	35.9	34.3	32.7	31.2	29.8
72.5°	57.7	55.6	53.3	51.0	48.5	46.3	44.5	42.7	40.7	38.5	36.4
70°	72.2	69.6	67.0	64.3	61.4	58.3	55.6	52.7	49.4	46.6	44.1
67.5°	87.4	84.0	81.0	78.3	75.3	71.8	68.6	65.3	61.8	57.9	53.6
65°	106.1	100.9	96.0	92.4	88.8	85.2	82.3	78.9	74.9	70.4	65.4
62.5°	129.9	123.6	117.4	111.4	105.1	99.0	94.3	90.8	87.1	83.1	77.5
60°	158.8	149.3	142.2	134.4	125.9	117.5	111.2	104.6	97.8	93.2	88.4
57.5°	198.7	185.8	175.0	163.4	151.1	141.0	131.6	121.8	113.6	105.7	97.8
55°	255.3	233.7	216.5	199.5	183.9	171.3	156.8	143.1	132.2	120.8	111.8
52.5°	335.9	304.1	273.9	242.9	222.7	207.1	189.9	173.0	154.8	141.2	127.9
50°	462.3	411.8	359.2	310.1	279.6	250.1	227.8	207.4	185.8	165.9	148.0
47.5°	621.1	550.4	478.9	416.0	362.9	311.4	277.8	244.5	220.5	194.0	172.3
45°	781.7	702.9	617.2	544.3	475.3	410.6	344.3	297.8	259.8	228.9	197.5
42.5°	928.2	853.0	769.7	685.9	608.1	527.9	445.0	371.3	310.3	268.1	233.5
40°	1038.8	966.8	889.5	821.8	737.5	654.3	563.1	464.8	383.2	314.6	272.7
37.5°	1161.3	1040.1	986.2	923.1	846.5	770.1	682.6	579.1	469.0	386.6	320.5
35°	1434.1	1236.6	1112.3	1021.0	944.4	886.1	801.3	693.3	583.8	480.0	382.0
32.5°	2054.4	1767.2	1362.7	1200.6	1085.1	1016.0	924.6	811.4	728.1	606.1	474.8
30°	3911.1	3150.9	2194.3	1595.7	1372.7	1182.7	1062.2	1006.7	905.5	755.5	581.7
27.5°	6525.3	6192.3	4561.8	3051.7	1937.3	1506.9	1336.7	1250.8	1115.6	935.6	732.6
25°	11359.1	10561.6	9509.4	6920.5	3906.1	2127.7	1807.8	1579.6	1376.6	1148.4	925.7
22.5°	18711.5	17708.4	16074.3	13019.2	8127.0	4637.3	2615.9	1975.0	1704.1	1468.7	1173.2
20°	27921.6	26084.5	23805.5	20253.1	15047.3	7948.6	4166.6	2820.1	2303.0	1868.5	1458.5
17.5°	38013.1	35120.1	31826.5	27953.5	22332.4	14435.5	7629.5	4200.6	3069.9	2323.2	1772.3
15°	47532.1	43664.5	39810.6	35400.5	29666.0	21513.8	11464.1	5840.0	4082.9	2929.5	2180.2
12.5°	55000.6	51184.8	47423.0	42613.1	37015.4	28314.5	16996.7	9093.2	5487.3	3840.5	2729.1
10°	60724.2	57055.7	53372.1	48871.7	43332.9	34792.6	22705.5	12199.0	7100.7	4914.4	3321.5
7.5°	65109.1	61169.2	58294.8	54445.2	49104.7	40806.5	27876.8	14963.0	8668.3	6041.9	3934.5
5°	68581.2	64412.8	62064.9	59080.7	54442.5	46364.1	32543.6	17356.8	10157.4	7171.6	4542.6
2.5°	71482.0	67189.0	65191.6	63027.1	59231.0	50952.1	36133.7	19518.3	11524.1	8118.9	5102.0
0°	74277.9	69744.1	67999.7	66225.9	62930.1	53823.5	38196.4	21407.4	12744.5	8923.2	5598.9
-2.5°	76573.7	72367.9	71001.6	69469.9	66194.0	56462.2	39935.4	22547.6	13373.2	9303.6	5919.6
-5°	78113.0	75035.1	73921.9	72421.3	68406.7	57663.3	40264.7	22976.3	13701.6	9472.8	6135.8
-7.5°	80276.2	78035.2	76950.0	75179.3	69810.7	57376.5	39152.4	22586.1	13606.9	9245.2	5993.7
-10°	82691.8	81422.7	80235.6	77656.3	70236.7	55510.4	36664.4	21430.7	13174.1	8833.3	5728.2
-12.5°	86005.7	84725.8	83193.6	79790.9	69439.6	51545.8	32457.6	19386.5	12366.2	8232.2	5333.2
-15°	89439.0	87588.7	84555.2	77790.5	64731.1	45855.5	27376.2	16367.4	11180.4	7449.5	4802.4
-17.5°	91353.6	88953.7	84563.7	74147.4	57009.2	38389.3	23499.8	14754.8	10058.1	6627.7	4165.1
-20°	91909.6	88226.4	79262.3	65279.8	47528.7	29609.4	18861.2	12893.5	8853.6	5810.8	3613.4



REPORT NUMBER: P699956 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-5L-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	90127.8	81840.6	70244.4	53933.5	36592.5	24053.0	15826.5	11004.6	7425.4	4813.6	2969.0
-25°	82035.5	71623.5	57352.1	41330.2	27721.0	18356.6	13233.7	9325.7	6230.5	3872.6	2281.3
-27.5°	69101.4	56778.8	43044.5	30061.8	20722.6	15209.2	10878.6	7505.8	4873.2	3041.9	1805.1
-30°	52057.2	40194.4	30238.3	21822.5	16671.7	12242.5	8605.9	5868.7	3751.0	2223.3	1309.8
-32.5°	34551.6	28045.3	21228.7	17231.6	13201.1	9601.6	6707.8	4273.2	2643.8	1645.8	987.0
-35°	24359.3	20170.6	16564.8	13258.9	10008.4	7279.3	4857.4	3081.2	1874.5	1101.7	699.9
-37.5°	18111.4	15208.7	12493.2	9712.7	7334.7	5160.4	3416.6	2145.6	1198.1	765.8	520.5
-40°	13353.3	11048.9	8947.1	6767.5	5021.2	3441.5	2294.4	1337.7	842.8	506.2	397.4
-42.5°	9326.2	7531.5	5918.2	4461.0	3141.5	2208.7	1387.8	886.2	545.0	390.2	319.8
-45°	6009.0	4795.2	3575.2	2708.1	1854.6	1293.2	828.1	552.2	386.2	314.5	263.3
-47.5°	3578.9	2823.5	2049.4	1501.2	1069.3	697.3	511.9	352.5	306.8	261.1	226.9
-50°	1928.5	1527.2	1123.9	774.3	587.1	415.2	333.0	289.9	252.7	221.6	192.8
-52.5°	952.0	761.3	578.3	409.1	342.3	302.2	264.2	238.1	210.3	187.1	165.4
-55°	423.3	366.1	331.0	294.8	261.7	240.5	217.6	195.8	177.0	157.4	143.5
-57.5°	296.2	269.8	250.8	231.5	212.0	194.8	178.4	161.8	148.7	136.2	124.5
-60°	227.8	209.2	197.3	184.3	170.3	156.1	146.2	135.9	125.4	118.2	111.2
-62.5°	177.6	165.5	155.8	146.9	137.7	128.5	121.0	115.3	109.3	103.1	96.0
-65°	138.8	130.9	123.6	118.3	113.0	107.9	103.1	98.0	92.3	86.1	79.6
-67.5°	109.1	104.5	100.5	96.7	93.0	89.0	84.7	79.9	75.0	69.6	63.6
-70°	85.0	81.9	79.0	76.2	73.6	70.6	67.0	62.9	58.4	54.5	51.0
-72.5°	65.9	63.9	61.8	59.6	56.8	54.4	51.9	49.4	46.7	43.7	40.8
-75°	51.4	50.0	48.4	46.7	44.7	42.6	40.5	38.6	36.6	34.4	32.1
-77.5°	38.9	37.7	36.5	35.1	33.6	32.1	30.5	29.1	27.8	26.6	25.4
-80°	27.3	26.4	25.5	24.7	23.8	22.9	21.9	21.2	20.6	20.2	20.1
-82.5°	17.7	17.5	17.4	17.2	17.1	17.0	17.0	17.0	17.0	16.9	16.8
-85°	11.5	12.0	12.6	12.9	13.2	13.6	13.8	14.0	14.1	14.3	14.5
-87.5°	7.6	8.1	8.6	8.9	9.1	9.2	9.3	9.4	9.5	9.5	9.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P699956 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-5L-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	9.5	9.1	8.7	8.3	7.8	7.4	6.8	6.3	5.7	5.1
85°	15.6	15.7	15.8	15.8	15.7	15.7	14.7	13.7	12.6	11.4	10.1
82.5°	17.7	17.8	17.9	17.9	17.8	17.6	17.4	17.2	17.0	16.8	15.2
80°	20.5	20.6	20.6	20.4	20.0	19.5	19.2	18.8	18.4	18.1	17.6
77.5°	24.1	23.8	23.4	23.2	22.5	21.9	21.2	20.5	19.9	19.3	18.8
75°	28.5	27.7	27.0	26.2	25.2	24.2	23.3	22.5	21.6	20.7	19.9
72.5°	34.6	32.9	31.2	29.5	28.2	27.0	25.7	24.4	23.4	22.2	21.1
70°	41.4	38.6	36.3	34.0	31.8	29.7	28.2	26.7	25.1	23.8	22.5
67.5°	48.9	45.7	42.4	38.8	35.9	33.4	30.9	29.0	27.2	25.4	23.9
65°	60.2	54.7	49.0	45.0	40.8	37.1	34.2	31.5	29.3	27.2	25.2
62.5°	71.6	65.5	59.1	52.1	46.5	41.9	37.4	34.3	31.4	29.0	26.7
60°	83.0	76.3	69.5	62.2	54.0	47.0	41.9	37.1	33.8	30.8	28.3
57.5°	92.3	86.6	79.7	72.1	63.6	54.2	46.6	40.9	36.2	32.8	29.8
55°	102.1	95.0	89.0	81.6	73.0	63.3	52.6	45.2	38.9	34.8	31.3
52.5°	115.8	105.1	96.7	90.2	81.8	72.0	60.6	49.4	42.7	36.7	33.0
50°	132.4	118.0	106.1	97.0	90.0	80.0	68.4	56.1	46.4	39.0	34.6
47.5°	151.8	133.8	118.0	104.8	96.1	88.0	75.9	62.9	50.1	42.3	36.2
45°	175.4	151.9	131.9	115.7	102.2	94.3	83.3	69.4	55.9	45.6	37.9
42.5°	201.4	174.4	148.6	126.5	111.8	100.1	90.6	76.0	61.4	48.9	40.2
40°	235.9	200.1	167.1	142.2	121.8	105.9	96.1	82.6	66.7	52.6	43.0
37.5°	271.4	230.5	191.8	158.3	132.8	114.8	101.3	89.1	72.3	57.4	45.7
35°	316.1	263.9	217.2	178.4	147.6	123.5	106.5	94.8	78.1	61.9	48.3
32.5°	361.6	300.1	247.4	201.3	162.5	131.7	113.0	99.4	83.6	66.2	50.8
30°	441.8	343.2	277.3	223.5	178.8	144.4	120.2	103.8	88.8	70.3	53.5
27.5°	547.3	387.3	308.7	248.6	198.2	157.3	127.2	108.2	93.7	74.4	56.8
25°	679.8	473.5	348.3	274.0	216.8	169.1	133.8	112.4	97.6	78.4	59.9
22.5°	861.0	582.5	387.8	298.3	233.3	180.2	141.9	118.0	101.0	82.1	62.8
20°	1056.6	698.9	428.8	322.6	250.8	193.7	151.0	123.1	104.2	85.5	65.5
17.5°	1270.8	852.4	527.0	358.8	268.5	206.1	159.2	127.9	107.2	88.5	67.9
15°	1575.6	1049.5	639.4	397.6	284.8	217.3	166.5	132.2	110.0	91.3	70.1
12.5°	1918.0	1252.8	753.9	437.8	299.5	227.1	172.9	136.1	112.5	93.9	71.9
10°	2277.5	1456.7	867.0	477.9	312.4	235.5	178.3	140.4	115.6	96.5	73.5
7.5°	2640.8	1655.0	975.2	516.5	324.5	244.3	187.0	146.0	118.5	98.7	74.8
5°	2999.5	1858.9	1090.0	570.4	340.9	253.1	195.6	151.4	121.1	100.7	75.8
2.5°	3357.6	2072.9	1201.8	623.7	355.5	260.3	203.3	156.3	123.4	102.4	76.6
0°	3673.0	2261.2	1296.9	670.8	367.7	266.0	210.0	160.6	125.4	103.6	77.0
-2.5°	3845.6	2361.1	1339.8	704.1	383.7	273.5	216.1	164.0	126.6	103.9	77.1
-5°	3952.3	2418.8	1360.3	726.3	396.1	279.5	220.8	166.5	127.3	103.8	77.0
-7.5°	3844.0	2346.5	1332.3	731.9	404.2	284.0	224.1	168.0	127.6	103.2	76.5
-10°	3626.9	2181.5	1244.9	702.8	408.5	284.2	224.9	168.4	127.3	102.2	75.7
-12.5°	3330.4	1980.9	1143.7	668.1	405.6	279.9	218.5	165.1	126.4	100.7	74.6
-15°	2951.3	1746.4	1031.0	629.2	394.1	273.0	210.7	160.0	124.1	98.8	73.2
-17.5°	2489.4	1479.8	909.0	587.9	372.8	263.1	201.6	154.2	121.5	96.4	71.4
-20°	2133.0	1250.6	792.3	545.3	341.0	250.2	191.1	147.8	118.5	93.5	69.3



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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°	1767.7	1068.6	707.6	506.8	310.4	233.9	179.2	140.9	115.2	90.2	66.8
-25°	1360.4	872.3	615.4	433.6	291.2	219.6	168.4	133.6	111.6	86.5	64.0
-27.5°	1074.7	691.8	521.6	361.9	263.5	203.9	159.3	128.9	107.4	82.4	60.9
-30°	835.2	586.7	438.3	301.9	234.3	186.0	149.9	124.0	102.3	78.3	57.4
-32.5°	622.8	481.7	362.1	268.5	211.0	168.7	140.0	118.9	96.8	74.0	54.8
-35°	512.4	395.8	293.3	233.8	191.1	157.2	131.2	113.5	90.8	69.3	52.4
-37.5°	402.0	323.5	254.6	204.7	171.6	145.3	124.7	106.7	84.4	64.2	49.8
-40°	331.2	267.3	216.9	184.1	156.9	133.3	118.0	98.8	78.0	58.7	47.1
-42.5°	269.2	228.2	191.7	164.4	143.5	125.7	110.9	90.5	71.3	54.7	44.3
-45°	229.9	195.5	170.2	149.6	130.9	118.2	101.2	81.8	64.2	51.2	41.6
-47.5°	195.1	171.7	151.7	134.6	122.8	109.7	91.1	73.6	56.9	47.7	39.2
-50°	169.0	150.6	135.6	123.8	114.2	98.2	80.8	65.0	52.7	43.9	36.6
-52.5°	147.5	133.6	123.0	114.4	101.8	86.2	71.0	56.5	48.3	40.6	33.9
-55°	129.8	120.4	112.9	102.0	88.5	74.7	60.8	51.5	43.8	37.2	31.3
-57.5°	116.8	109.7	99.7	88.0	75.7	63.2	53.4	46.3	39.7	33.8	29.8
-60°	104.1	95.1	85.1	74.4	63.1	54.0	47.6	41.3	35.6	30.6	28.3
-62.5°	88.2	79.9	70.7	60.7	53.4	47.6	41.8	36.4	31.3	28.8	26.7
-65°	72.5	64.6	56.5	51.5	46.3	41.2	36.2	31.4	28.8	26.9	25.1
-67.5°	56.9	52.6	48.3	43.8	39.3	34.8	30.4	28.2	26.7	25.1	23.5
-70°	47.3	43.6	40.0	36.1	32.2	28.8	27.3	25.9	24.6	23.3	21.9
-72.5°	38.1	35.1	31.7	28.5	27.3	26.0	24.8	23.6	22.6	21.5	20.2
-75°	29.5	27.7	26.4	25.3	24.3	23.3	22.4	21.6	20.7	19.7	19.0
-77.5°	24.3	23.4	22.6	22.2	21.6	20.9	20.2	19.5	18.9	18.4	17.9
-80°	20.0	19.9	19.7	19.5	19.0	18.6	18.2	17.8	17.5	17.1	16.7
-82.5°	16.8	16.9	17.0	17.0	16.9	16.7	16.4	16.2	16.0	15.8	14.4
-85°	14.7	14.8	14.8	14.9	14.8	14.7	13.8	12.8	11.8	10.7	9.6
-87.5°	9.2	8.9	8.6	8.2	7.8	7.4	6.9	6.4	5.9	5.4	4.8
-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):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	3.7	3.0	2.2	1.5	0.7	0.0
85°	8.8	7.4	5.9	4.5	3.0	1.5	0.0
82.5°	13.2	11.1	8.9	6.7	4.5	2.2	0.0
80°	17.2	14.7	11.8	8.9	5.9	3.0	0.0
77.5°	18.2	17.4	14.7	11.1	7.4	3.7	0.0
75°	19.1	18.2	17.2	13.2	8.8	4.4	0.0
72.5°	20.1	19.0	17.8	15.4	10.3	5.1	0.0
70°	21.1	19.8	18.5	17.2	11.7	5.8	0.0
67.5°	22.2	20.5	19.1	17.7	13.1	6.5	0.0
65°	23.4	21.4	19.7	18.1	14.4	7.2	0.0
62.5°	24.5	22.3	20.3	18.6	15.8	7.9	0.0
60°	25.6	23.2	20.9	19.0	17.1	8.5	0.0
57.5°	26.9	24.1	21.6	19.4	17.4	9.2	0.0
55°	28.2	25.0	22.3	19.8	17.7	9.8	0.0
52.5°	29.4	25.9	23.0	20.2	17.9	10.4	0.0
50°	30.7	26.9	23.6	20.6	18.2	11.0	0.0
47.5°	31.9	28.0	24.2	21.0	18.4	11.6	0.0
45°	33.3	29.0	24.8	21.5	18.7	12.1	0.0
42.5°	34.7	29.9	25.4	21.9	18.9	12.6	0.0
40°	36.0	30.9	26.1	22.3	19.1	13.1	0.0
37.5°	37.2	31.8	26.8	22.7	19.3	13.6	0.0
35°	38.4	32.7	27.5	23.1	19.5	14.0	0.0
32.5°	39.9	33.7	28.1	23.4	19.7	14.4	0.0
30°	41.9	34.6	28.7	23.8	19.9	14.8	0.0
27.5°	43.8	35.4	29.3	24.1	20.0	15.2	0.0
25°	45.6	36.2	29.8	24.3	20.2	15.5	0.0
22.5°	47.3	37.0	30.3	24.6	20.3	15.8	0.0
20°	48.8	37.7	30.7	24.8	20.4	16.1	0.0
17.5°	50.2	38.3	31.1	25.0	20.5	16.3	0.0
15°	51.4	38.9	31.4	25.2	20.6	16.5	0.0
12.5°	52.4	39.4	31.7	25.4	20.7	16.7	0.0
10°	53.3	39.8	31.9	25.5	20.8	16.8	0.0
7.5°	54.0	40.2	32.1	25.6	20.8	17.0	0.0
5°	54.5	40.5	32.2	25.6	20.9	17.0	0.0
2.5°	54.9	40.7	32.3	25.7	20.9	17.1	0.0
0°	55.1	40.9	32.3	25.7	20.9	17.1	0.0
-2.5°	55.2	41.0	32.3	25.7	20.9	17.1	0.0
-5°	55.0	40.9	32.2	25.6	20.9	17.0	0.0
-7.5°	54.8	40.8	32.1	25.6	20.8	17.0	0.0
-10°	54.3	40.6	31.9	25.5	20.8	16.8	0.0
-12.5°	53.7	40.3	31.7	25.4	20.7	16.7	0.0
-15°	52.9	39.9	31.4	25.2	20.6	16.5	0.0
-17.5°	52.0	39.4	31.1	25.0	20.5	16.3	0.0
-20°	50.8	38.8	30.7	24.8	20.4	16.1	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	49.5	38.1	30.3	24.6	20.3	15.8	0.0
-25°	48.0	37.3	29.8	24.3	20.2	15.5	0.0
-27.5°	46.4	36.4	29.3	24.1	20.0	15.2	0.0
-30°	44.6	35.3	28.7	23.8	19.9	14.8	0.0
-32.5°	42.7	34.2	28.1	23.4	19.7	14.4	0.0
-35°	41.1	32.9	27.5	23.1	19.5	14.0	0.0
-37.5°	39.5	31.8	26.8	22.7	19.3	13.6	0.0
-40°	37.8	30.9	26.1	22.3	19.1	13.1	0.0
-42.5°	36.0	29.9	25.4	21.9	18.9	12.6	0.0
-45°	34.1	29.0	24.8	21.4	18.7	12.1	0.0
-47.5°	32.0	28.0	24.2	21.0	18.4	11.6	0.0
-50°	30.7	26.9	23.5	20.5	18.2	11.0	0.0
-52.5°	29.4	25.9	22.8	20.1	17.9	10.4	0.0
-55°	28.2	24.9	22.1	19.7	17.7	9.8	0.0
-57.5°	26.9	24.0	21.3	19.3	17.4	9.2	0.0
-60°	25.6	23.0	20.5	18.9	17.1	8.5	0.0
-62.5°	24.3	21.9	19.9	18.4	15.8	7.9	0.0
-65°	23.0	20.9	19.3	17.9	14.4	7.2	0.0
-67.5°	21.6	19.9	18.7	17.5	13.1	6.5	0.0
-70°	20.3	19.1	18.1	17.0	11.7	5.8	0.0
-72.5°	19.2	18.3	17.4	15.2	10.3	5.1	0.0
-75°	18.3	17.5	16.8	13.1	8.8	4.4	0.0
-77.5°	17.3	16.7	14.4	10.9	7.4	3.7	0.0
-80°	16.3	14.2	11.5	8.8	5.9	3.0	0.0
-82.5°	12.6	10.6	8.7	6.6	4.5	2.2	0.0
-85°	8.4	7.1	5.8	4.4	3.0	1.5	0.0
-87.5°	4.2	3.6	2.9	2.2	1.5	0.7	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)