

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: P699947 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-80-1R-S**

Issue Date: 8/10/2023

**Test Information**

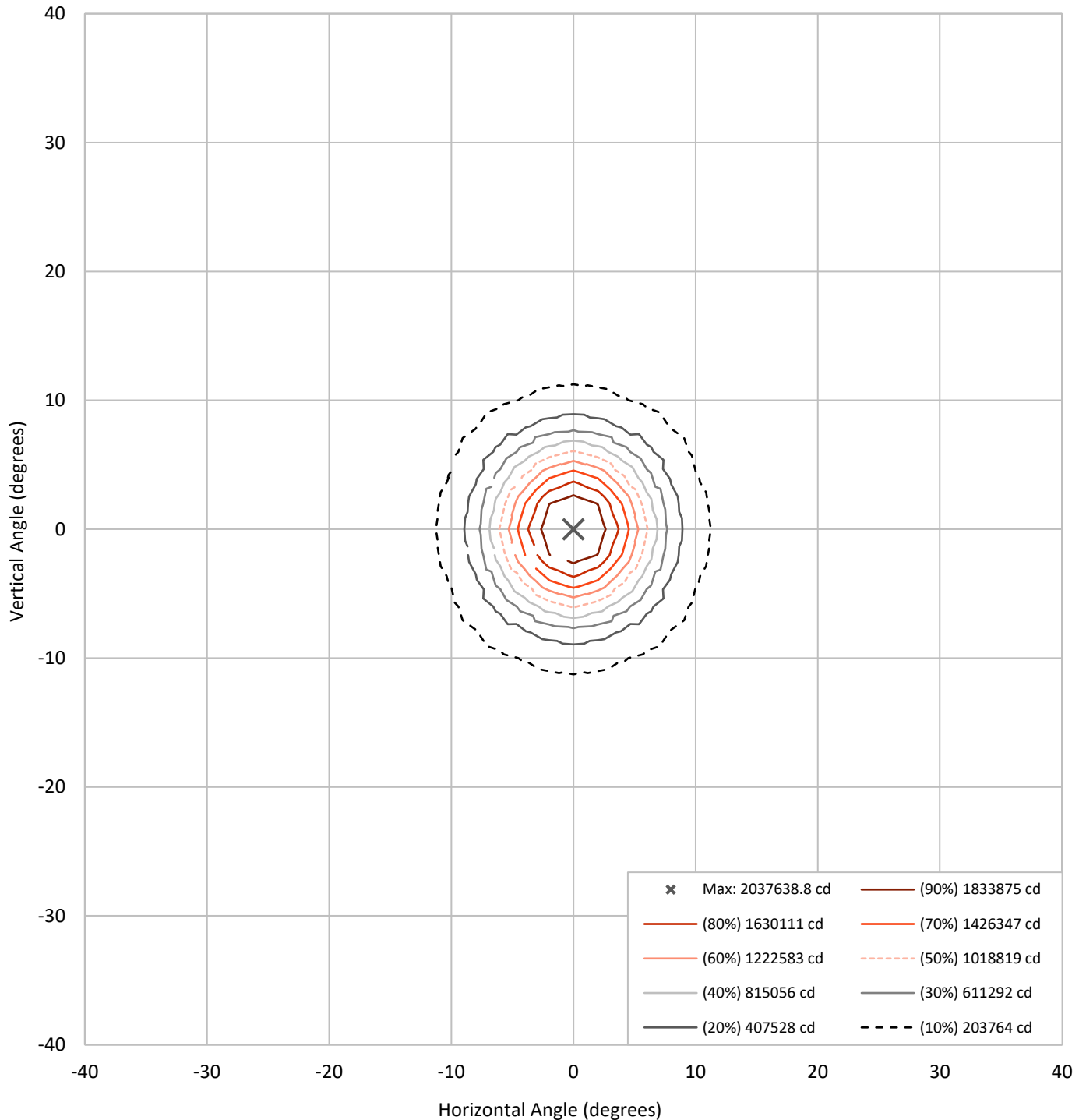
Test Method: LM-79-08  
Report Number: P699947 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200R-40-80-1R-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 4000K, 80 CRI LEDS AND 1R BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	164062.1 lumens	Max Intensity:	2037638.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	127.3 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	12.1°H x 12.1°V	Field Angle (10%):	22.5°H x 22.5°V
Beam Lumens:	46885.9 lumens	Field Lumens:	88368.4 lumens
Beam Efficiency:	28.6%	Field Efficiency:	53.9%
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





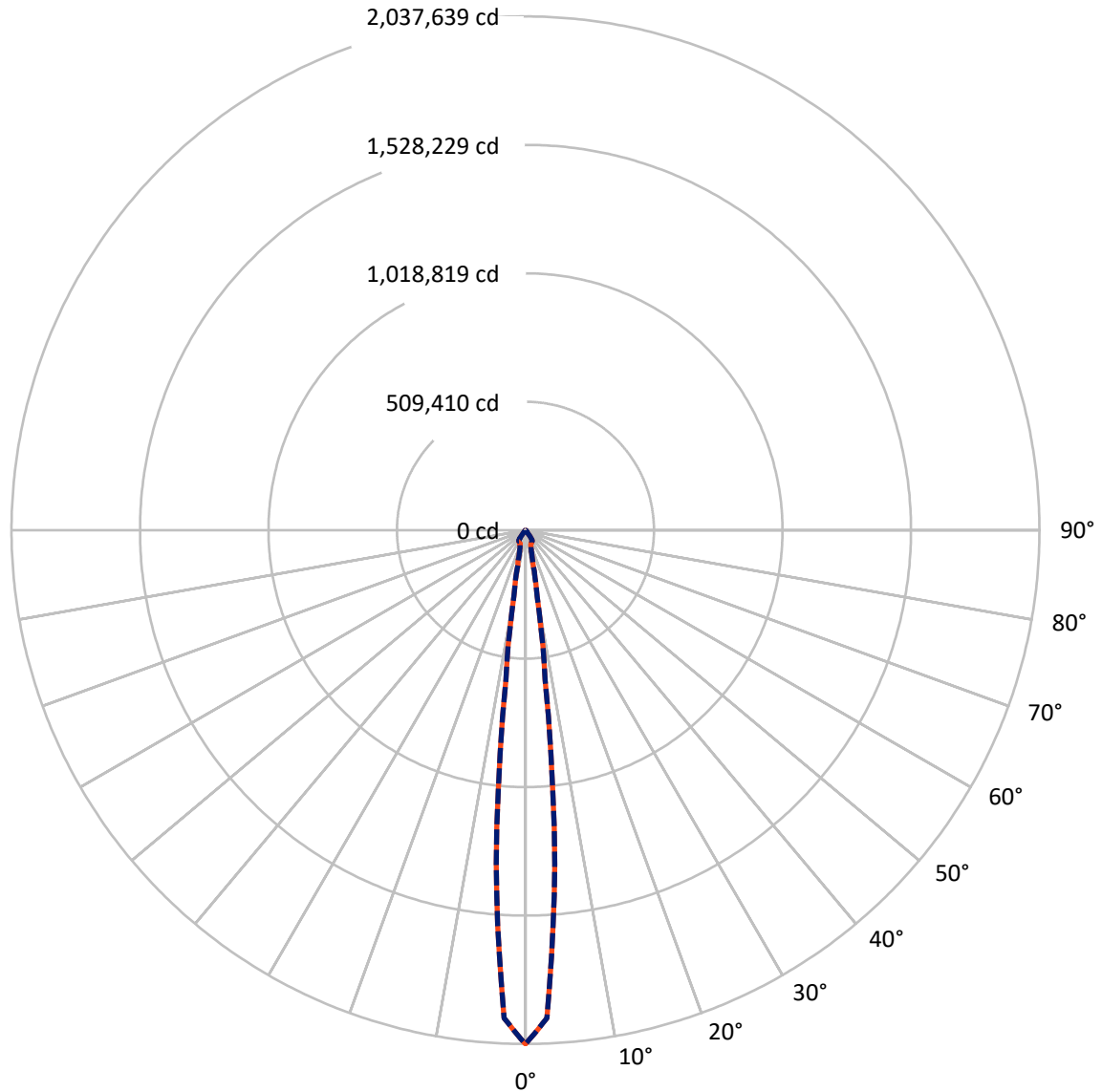
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### Lumen Table

90	0.2	1.2		2.7		4.2		4.8		4.2		2.7		1.2		0.2
80	0.2	1.2		2.7		4.2		4.8		4.2		2.7		1.2		0.2
70	0.5	0.5	1.0	1.6	2.3	3.7	5.4	6.4	6.4	5.4	3.7	2.3	1.6	1.0	0.5	0.5
60		0.7	1.5	3.6	7.9	11.2	13.8	15.4	15.4	13.8	11.2	7.9	3.6	1.5	0.7	
50	0.8	0.9	2.9	8.2	13.0	20.8	37.8	62.4	62.4	37.8	20.8	13.0	8.2	2.9	0.9	0.8
40		1.2	5.6	11.3	25.6	178.0	654.4	1005.6	1005.6	654.4	178.0	25.6	11.3	5.6	1.2	
30	1.0	1.8	7.2	16.4	162.9	989.3	1516.2	1665.4	1665.4	1516.2	989.3	162.9	16.4	7.2	1.8	1.0
20		2.5	8.3	28.2	564.3	1423.6	1827.8	2985.0	2985.0	1827.8	1423.6	564.3	28.2	8.3	2.5	
10	1.1	2.9	9.0	45.7	838.3	1516.5	2905.0	22382.9	22382.9	2905.0	1516.5	838.3	45.7	9.0	2.9	1.1
0		2.9	9.0	45.7	838.3	1516.5	2905.0	22382.9	22382.9	2905.0	1516.5	838.3	45.7	9.0	2.9	
-10	1.0	2.5	8.3	28.2	564.3	1423.6	1827.8	2985.0	2985.0	1827.8	1423.6	564.3	28.2	8.3	2.5	1.0
-20		1.8	7.2	16.4	162.9	989.3	1516.2	1665.4	1665.4	1516.2	989.3	162.9	16.4	7.2	1.8	
-30	0.8	1.2	5.6	11.3	25.6	178.0	654.4	1005.6	1005.6	654.4	178.0	25.6	11.3	5.6	1.2	0.8
-40		0.9	2.9	8.2	13.0	20.8	37.8	62.4	62.4	37.8	20.8	13.0	8.2	2.9	0.9	
-50	0.5	0.7	1.5	3.6	7.9	11.2	13.8	15.4	15.4	13.8	11.2	7.9	3.6	1.5	0.7	0.5
-60		0.5	1.0	1.6	2.3	3.7	5.4	6.4	6.4	5.4	3.7	2.3	1.6	1.0	0.5	
-70	0.2	1.2		2.7		4.2		4.8		4.2		2.7		1.2		0.2
-80		1.2		2.7		4.2		4.8		4.2		2.7		1.2		
-90	0.2	1.2		2.7		4.2		4.8		4.2		2.7		1.2		0.2

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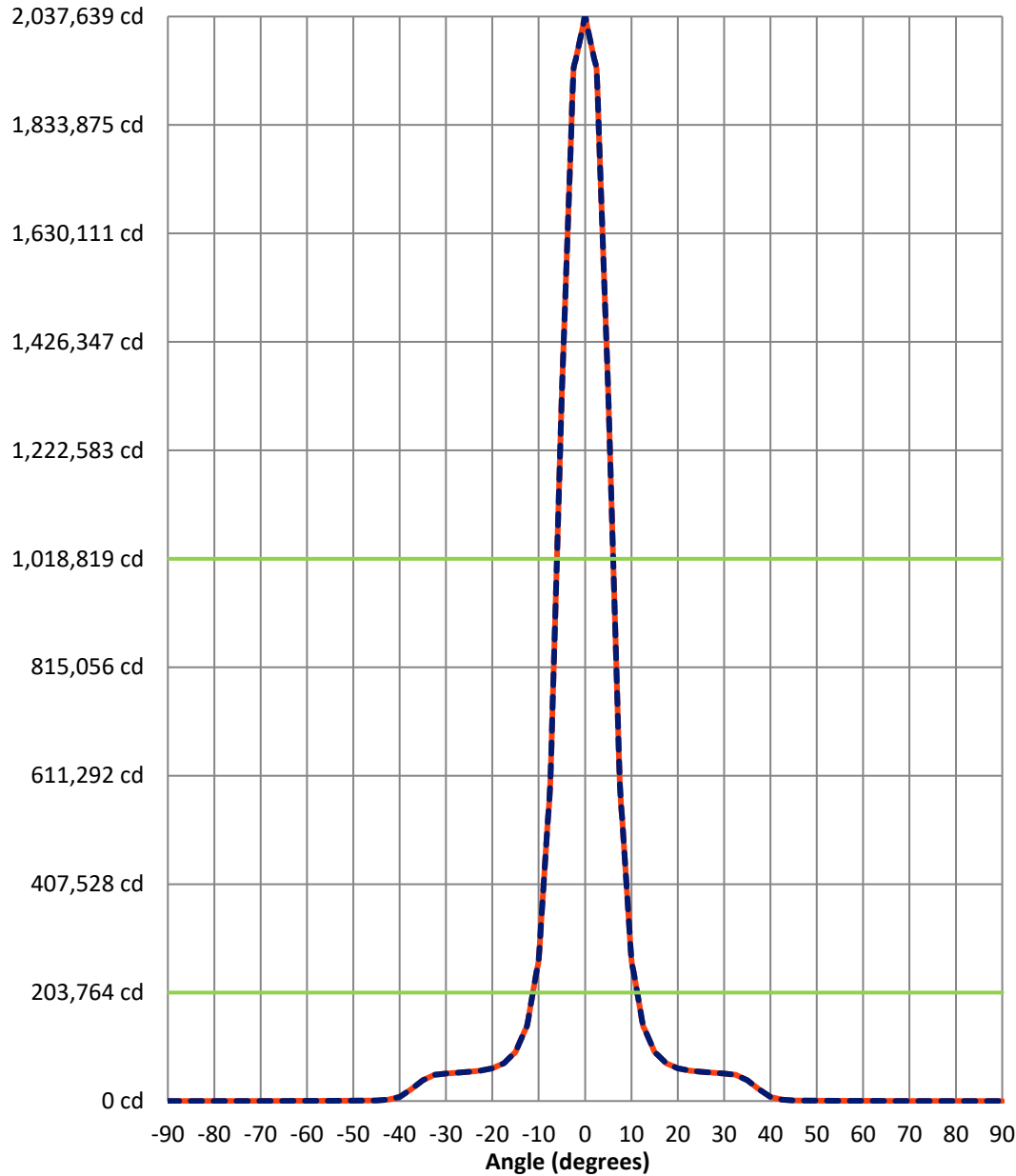
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 12.1°  
 V Angle: 12.1°  
 Lumens: 46885.9  
 Efficiency: 28.6%

**Field:**  
 H Angle: 22.5°  
 V Angle: 22.5°  
 Lumens: 88368.4  
 Efficiency: 53.9%

**Spill:**  
 Lumens: 75693.7  
 Efficiency: 46.1%

- 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°	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	0.4	0.8	1.2	1.6	2.1	2.5	2.9	3.2	3.6	4.0
85°	0.0	0.8	1.7	2.5	3.3	4.1	4.9	5.7	6.5	7.3	8.0
82.5°	0.0	1.2	2.5	3.7	4.9	6.2	7.4	8.5	9.7	10.9	12.0
80°	0.0	1.6	3.3	4.9	6.6	8.2	9.8	11.4	12.9	14.5	16.0
77.5°	0.0	2.1	4.1	6.2	8.2	10.2	12.2	14.2	16.1	18.1	19.9
75°	0.0	2.5	4.9	7.4	9.8	12.2	14.6	17.0	19.3	21.6	23.9
72.5°	0.0	2.9	5.7	8.5	11.4	14.2	17.0	19.7	22.4	25.1	27.7
70°	0.0	3.2	6.5	9.7	12.9	16.1	19.3	22.4	25.5	28.6	31.6
67.5°	0.0	3.6	7.3	10.9	14.5	18.1	21.6	25.1	28.6	32.0	35.4
65°	0.0	4.0	8.0	12.0	16.0	19.9	23.9	27.7	31.6	35.4	39.1
62.5°	0.0	4.4	8.8	13.1	17.5	21.8	26.1	30.3	34.5	38.7	42.8
60°	0.0	4.7	9.5	14.2	18.9	23.6	28.3	32.9	37.4	41.9	46.4
57.5°	0.0	5.1	10.2	15.3	20.3	25.4	30.4	35.3	40.2	45.1	49.9
55°	0.0	5.4	10.9	16.3	21.7	27.1	32.4	37.7	43.0	48.2	53.3
52.5°	0.0	5.8	11.6	17.3	23.1	28.8	34.4	40.1	45.7	51.2	56.7
50°	0.0	6.1	12.2	18.3	24.4	30.4	36.4	42.4	48.3	54.1	62.8
47.5°	0.0	6.4	12.8	19.2	25.6	32.0	38.3	44.5	50.8	56.9	69.1
45°	0.0	6.7	13.4	20.1	26.8	33.5	40.1	46.7	53.2	62.3	75.1
42.5°	0.0	7.0	14.0	21.0	28.0	34.9	41.8	48.7	55.5	67.6	78.5
40°	0.0	7.3	14.5	21.8	29.0	36.3	43.5	50.6	58.4	72.6	81.3
37.5°	0.0	7.5	15.1	22.6	30.1	37.6	45.0	52.4	62.7	76.7	83.9
35°	0.0	7.8	15.6	23.3	31.1	38.8	46.5	54.2	66.7	78.9	87.4
32.5°	0.0	8.0	16.0	24.0	32.0	40.0	47.9	55.8	70.4	81.1	92.2
30°	0.0	8.2	16.4	24.7	32.9	41.1	49.2	57.7	73.9	83.0	96.7
27.5°	0.0	8.4	16.8	25.3	33.7	42.1	50.4	60.6	76.6	84.9	100.8
25°	0.0	8.6	17.2	25.8	34.4	43.0	51.6	63.2	78.1	87.7	104.8
22.5°	0.0	8.8	17.6	26.3	35.1	43.8	52.6	65.6	79.5	90.9	111.8
20°	0.0	8.9	17.9	26.8	35.7	44.6	53.5	67.7	80.7	93.7	118.2
17.5°	0.0	9.1	18.1	27.2	36.2	45.3	54.3	69.7	81.8	96.2	123.8
15°	0.0	9.2	18.4	27.5	36.7	45.9	55.0	71.3	82.8	98.4	128.7
12.5°	0.0	9.3	18.5	27.8	37.1	46.4	55.6	72.7	83.6	100.2	132.9
10°	0.0	9.4	18.7	28.1	37.4	46.8	56.1	73.9	84.3	101.8	136.3
7.5°	0.0	9.4	18.8	28.3	37.7	47.1	56.5	74.8	84.8	103.0	139.0
5°	0.0	9.5	18.9	28.4	37.9	47.3	56.8	75.5	85.2	103.8	141.0
2.5°	0.0	9.5	19.0	28.5	38.0	47.5	56.9	75.9	85.4	104.3	142.1
0°	0.0	9.5	19.0	28.5	38.0	47.5	56.9	75.9	85.4	104.3	142.1
-2.5°	0.0	9.5	19.0	28.5	38.0	47.5	56.9	75.9	85.4	104.3	142.1
-5°	0.0	9.5	18.9	28.4	37.9	47.3	56.8	75.5	85.2	103.8	141.0
-7.5°	0.0	9.4	18.8	28.3	37.7	47.1	56.5	74.8	84.8	103.0	139.0
-10°	0.0	9.4	18.7	28.1	37.4	46.8	56.1	73.9	84.3	101.8	136.3
-12.5°	0.0	9.3	18.5	27.8	37.1	46.4	55.6	72.7	83.6	100.2	132.9
-15°	0.0	9.2	18.4	27.5	36.7	45.9	55.0	71.3	82.8	98.4	128.7
-17.5°	0.0	9.1	18.1	27.2	36.2	45.3	54.3	69.7	81.8	96.2	123.8
-20°	0.0	8.9	17.9	26.8	35.7	44.6	53.5	67.7	80.7	93.7	118.2



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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	8.8	17.6	26.3	35.1	43.8	52.6	65.6	79.5	90.9	111.8
-25°	0.0	8.6	17.2	25.8	34.4	43.0	51.6	63.2	78.1	87.7	104.8
-27.5°	0.0	8.4	16.8	25.3	33.7	42.1	50.4	60.6	76.6	84.9	100.8
-30°	0.0	8.2	16.4	24.7	32.9	41.1	49.2	57.7	73.9	83.0	96.7
-32.5°	0.0	8.0	16.0	24.0	32.0	40.0	47.9	55.8	70.4	81.1	92.2
-35°	0.0	7.8	15.6	23.3	31.1	38.8	46.5	54.2	66.7	78.9	87.4
-37.5°	0.0	7.5	15.1	22.6	30.1	37.6	45.0	52.4	62.7	76.7	83.9
-40°	0.0	7.3	14.5	21.8	29.0	36.3	43.5	50.6	58.4	72.6	81.3
-42.5°	0.0	7.0	14.0	21.0	28.0	34.9	41.8	48.7	55.5	67.6	78.5
-45°	0.0	6.7	13.4	20.1	26.8	33.5	40.1	46.7	53.2	62.3	75.1
-47.5°	0.0	6.4	12.8	19.2	25.6	32.0	38.3	44.5	50.8	56.9	69.1
-50°	0.0	6.1	12.2	18.3	24.4	30.4	36.4	42.4	48.3	54.1	62.8
-52.5°	0.0	5.8	11.6	17.3	23.1	28.8	34.4	40.1	45.7	51.2	56.7
-55°	0.0	5.4	10.9	16.3	21.7	27.1	32.4	37.7	43.0	48.2	53.3
-57.5°	0.0	5.1	10.2	15.3	20.3	25.4	30.4	35.3	40.2	45.1	49.9
-60°	0.0	4.7	9.5	14.2	18.9	23.6	28.3	32.9	37.4	41.9	46.4
-62.5°	0.0	4.4	8.8	13.1	17.5	21.8	26.1	30.3	34.5	38.7	42.8
-65°	0.0	4.0	8.0	12.0	16.0	19.9	23.9	27.7	31.6	35.4	39.1
-67.5°	0.0	3.6	7.3	10.9	14.5	18.1	21.6	25.1	28.6	32.0	35.4
-70°	0.0	3.2	6.5	9.7	12.9	16.1	19.3	22.4	25.5	28.6	31.6
-72.5°	0.0	2.9	5.7	8.5	11.4	14.2	17.0	19.7	22.4	25.1	27.7
-75°	0.0	2.5	4.9	7.4	9.8	12.2	14.6	17.0	19.3	21.6	23.9
-77.5°	0.0	2.1	4.1	6.2	8.2	10.2	12.2	14.2	16.1	18.1	19.9
-80°	0.0	1.6	3.3	4.9	6.6	8.2	9.8	11.4	12.9	14.5	16.0
-82.5°	0.0	1.2	2.5	3.7	4.9	6.2	7.4	8.5	9.7	10.9	12.0
-85°	0.0	0.8	1.7	2.5	3.3	4.1	4.9	5.7	6.5	7.3	8.0
-87.5°	0.0	0.4	0.8	1.2	1.6	2.1	2.5	2.9	3.2	3.6	4.0
-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°	4.4	4.7	5.1	5.4	5.8	6.1	6.4	6.7	7.0	7.3	7.5
85°	8.8	9.5	10.2	10.9	11.6	12.2	12.8	13.4	14.0	14.5	15.1
82.5°	13.1	14.2	15.3	16.3	17.3	18.3	19.2	20.1	21.0	21.8	22.6
80°	17.5	18.9	20.3	21.7	23.1	24.4	25.6	26.8	28.0	29.0	30.1
77.5°	21.8	23.6	25.4	27.1	28.8	30.4	32.0	33.5	34.9	36.3	37.6
75°	26.1	28.3	30.4	32.4	34.4	36.4	38.3	40.1	41.8	43.5	45.0
72.5°	30.3	32.9	35.3	37.7	40.1	42.4	44.5	46.7	48.7	50.6	52.4
70°	34.5	37.4	40.2	43.0	45.7	48.3	50.8	53.2	55.5	58.4	62.7
67.5°	38.7	41.9	45.1	48.2	51.2	54.1	56.9	62.3	67.6	72.6	76.7
65°	42.8	46.4	49.9	53.3	56.7	62.8	69.1	75.1	78.5	81.3	83.9
62.5°	46.8	50.7	54.6	59.7	67.1	74.2	78.6	81.9	85.1	90.9	96.8
60°	50.7	55.0	61.4	69.7	76.8	80.7	84.5	90.9	97.9	104.8	117.7
57.5°	54.6	61.4	70.5	77.7	82.0	87.1	95.3	103.2	117.2	131.9	164.4
55°	59.7	69.7	77.7	82.5	88.8	97.9	109.0	126.2	144.1	243.6	339.0
52.5°	67.1	76.8	82.0	88.8	98.8	112.6	131.6	189.7	301.0	381.1	385.2
50°	74.2	80.7	87.1	97.9	112.6	133.4	212.6	335.7	383.0	387.6	392.0
47.5°	78.6	84.5	95.3	109.0	131.6	212.6	347.4	383.9	389.0	394.0	398.8
45°	81.9	90.9	103.2	126.2	189.7	335.7	383.9	389.5	395.0	409.3	454.6
42.5°	85.1	97.9	117.2	144.1	301.0	383.0	389.0	395.0	413.7	463.7	521.0
40°	90.9	104.8	131.9	243.6	381.1	387.6	394.0	409.3	463.7	527.1	595.3
37.5°	96.8	117.7	164.4	339.0	385.2	392.0	398.8	454.6	521.0	595.3	695.9
35°	102.4	130.0	248.2	382.0	389.2	396.3	436.8	502.7	582.8	686.9	788.4
32.5°	110.9	141.6	327.4	385.4	392.9	410.3	475.5	558.0	659.9	773.2	866.4
30°	120.8	205.1	380.9	388.7	396.5	444.4	521.5	615.5	739.4	843.1	951.1
27.5°	130.0	268.6	383.7	391.7	405.3	476.4	567.4	685.5	804.9	912.7	1036.9
25°	138.5	327.4	386.2	394.6	432.8	513.4	615.1	750.8	862.7	988.0	1672.7
22.5°	166.4	380.0	388.6	397.2	458.0	549.9	671.0	802.1	921.1	1086.8	2409.9
20°	210.5	382.0	390.7	403.0	480.9	583.0	721.9	847.4	980.5	1715.8	4072.9
17.5°	249.7	383.7	392.7	421.8	507.0	618.6	766.2	888.1	1034.0	2283.2	6040.0
15°	283.9	385.2	394.4	438.2	531.0	655.5	799.2	930.5	1315.2	3102.7	7876.8
12.5°	313.0	386.5	395.8	452.3	551.4	687.1	827.5	967.9	1713.4	4490.2	12168.0
10°	337.0	387.6	397.0	463.8	568.3	713.2	850.9	998.8	2043.7	5643.0	15741.4
7.5°	355.8	388.4	397.9	472.9	581.5	733.6	869.3	1023.1	2303.5	6551.1	18561.6
5°	369.2	389.0	398.6	479.4	591.0	748.3	882.5	1040.5	2490.6	7206.1	20598.6
2.5°	377.3	389.4	399.0	483.3	596.7	757.1	890.4	1051.1	2603.6	7601.7	21830.2
0°	<b>380.0</b>	<b>389.5</b>	<b>399.1</b>	<b>484.6</b>	<b>598.6</b>	<b>760.1</b>	<b>893.1</b>	<b>1054.6</b>	<b>2641.3</b>	<b>7734.0</b>	<b>22242.3</b>
-2.5°	377.3	389.4	399.0	483.3	596.7	757.1	890.4	1051.1	2603.6	7601.7	21830.2
-5°	369.2	389.0	398.6	479.4	591.0	748.3	882.5	1040.5	2490.6	7206.1	20598.6
-7.5°	355.8	388.4	397.9	472.9	581.5	733.6	869.3	1023.1	2303.5	6551.1	18561.6
-10°	337.0	387.6	397.0	463.8	568.3	713.2	850.9	998.8	2043.7	5643.0	15741.4
-12.5°	313.0	386.5	395.8	452.3	551.4	687.1	827.5	967.9	1713.4	4490.2	12168.0
-15°	283.9	385.2	394.4	438.2	531.0	655.5	799.2	930.5	1315.2	3102.7	7876.8
-17.5°	249.7	383.7	392.7	421.8	507.0	618.6	766.2	888.1	1034.0	2283.2	6040.0
-20°	210.5	382.0	390.7	403.0	480.9	583.0	721.9	847.4	980.5	1715.8	4072.9



REPORT NUMBER: P699947 (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°	166.4	380.0	388.6	397.2	458.0	549.9	671.0	802.1	921.1	1086.8	2409.9
-25°	138.5	327.4	386.2	394.6	432.8	513.4	615.1	750.8	862.7	988.0	1672.7
-27.5°	130.0	268.6	383.7	391.7	405.3	476.4	567.4	685.5	804.9	912.7	1036.9
-30°	120.8	205.1	380.9	388.7	396.5	444.4	521.5	615.5	739.4	843.1	951.1
-32.5°	110.9	141.6	327.4	385.4	392.9	410.3	475.5	558.0	659.9	773.2	866.4
-35°	102.4	130.0	248.2	382.0	389.2	396.3	436.8	502.7	582.8	686.9	788.4
-37.5°	96.8	117.7	164.4	339.0	385.2	392.0	398.8	454.6	521.0	595.3	695.9
-40°	90.9	104.8	131.9	243.6	381.1	387.6	394.0	409.3	463.7	527.1	595.3
-42.5°	85.1	97.9	117.2	144.1	301.0	383.0	389.0	395.0	413.7	463.7	521.0
-45°	81.9	90.9	103.2	126.2	189.7	335.7	383.9	389.5	395.0	409.3	454.6
-47.5°	78.6	84.5	95.3	109.0	131.6	212.6	347.4	383.9	389.0	394.0	398.8
-50°	74.2	80.7	87.1	97.9	112.6	133.4	212.6	335.7	383.0	387.6	392.0
-52.5°	67.1	76.8	82.0	88.8	98.8	112.6	131.6	189.7	301.0	381.1	385.2
-55°	59.7	69.7	77.7	82.5	88.8	97.9	109.0	126.2	144.1	243.6	339.0
-57.5°	54.6	61.4	70.5	77.7	82.0	87.1	95.3	103.2	117.2	131.9	164.4
-60°	50.7	55.0	61.4	69.7	76.8	80.7	84.5	90.9	97.9	104.8	117.7
-62.5°	46.8	50.7	54.6	59.7	67.1	74.2	78.6	81.9	85.1	90.9	96.8
-65°	42.8	46.4	49.9	53.3	56.7	62.8	69.1	75.1	78.5	81.3	83.9
-67.5°	38.7	41.9	45.1	48.2	51.2	54.1	56.9	62.3	67.6	72.6	76.7
-70°	34.5	37.4	40.2	43.0	45.7	48.3	50.8	53.2	55.5	58.4	62.7
-72.5°	30.3	32.9	35.3	37.7	40.1	42.4	44.5	46.7	48.7	50.6	52.4
-75°	26.1	28.3	30.4	32.4	34.4	36.4	38.3	40.1	41.8	43.5	45.0
-77.5°	21.8	23.6	25.4	27.1	28.8	30.4	32.0	33.5	34.9	36.3	37.6
-80°	17.5	18.9	20.3	21.7	23.1	24.4	25.6	26.8	28.0	29.0	30.1
-82.5°	13.1	14.2	15.3	16.3	17.3	18.3	19.2	20.1	21.0	21.8	22.6
-85°	8.8	9.5	10.2	10.9	11.6	12.2	12.8	13.4	14.0	14.5	15.1
-87.5°	4.4	4.7	5.1	5.4	5.8	6.1	6.4	6.7	7.0	7.3	7.5
-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: P699947 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-1R-S

**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°	7.8	8.0	8.2	8.4	8.6	8.8	8.9	9.1	9.2	9.3	9.4
85°	15.6	16.0	16.4	16.8	17.2	17.6	17.9	18.1	18.4	18.5	18.7
82.5°	23.3	24.0	24.7	25.3	25.8	26.3	26.8	27.2	27.5	27.8	28.1
80°	31.1	32.0	32.9	33.7	34.4	35.1	35.7	36.2	36.7	37.1	37.4
77.5°	38.8	40.0	41.1	42.1	43.0	43.8	44.6	45.3	45.9	46.4	46.8
75°	46.5	47.9	49.2	50.4	51.6	52.6	53.5	54.3	55.0	55.6	56.1
72.5°	54.2	55.8	57.7	60.6	63.2	65.6	67.7	69.7	71.3	72.7	73.9
70°	66.7	70.4	73.9	76.6	78.1	79.5	80.7	81.8	82.8	83.6	84.3
67.5°	78.9	81.1	83.0	84.9	87.7	90.9	93.7	96.2	98.4	100.2	101.8
65°	87.4	92.2	96.7	100.8	104.8	111.8	118.2	123.8	128.7	132.9	136.3
62.5°	102.4	110.9	120.8	130.0	138.5	166.4	210.5	249.7	283.9	313.0	337.0
60°	130.0	141.6	205.1	268.6	327.4	380.0	382.0	383.7	385.2	386.5	387.6
57.5°	248.2	327.4	380.9	383.7	386.2	388.6	390.7	392.7	394.4	395.8	397.0
55°	382.0	385.4	388.7	391.7	394.6	397.2	403.0	421.8	438.2	452.3	463.8
52.5°	389.2	392.9	396.5	405.3	432.8	458.0	480.9	507.0	531.0	551.4	568.3
50°	396.3	410.3	444.4	476.4	513.4	549.9	583.0	618.6	655.5	687.1	713.2
47.5°	436.8	475.5	521.5	567.4	615.1	671.0	721.9	766.2	799.2	827.5	850.9
45°	502.7	558.0	615.5	685.5	750.8	802.1	847.4	888.1	930.5	967.9	998.8
42.5°	582.8	659.9	739.4	804.9	862.7	921.1	980.5	1034.0	1315.2	1713.4	2043.7
40°	686.9	773.2	843.1	912.7	988.0	1086.8	1715.8	2283.2	3102.7	4490.2	5643.0
37.5°	788.4	866.4	951.1	1036.9	1672.7	2409.9	4072.9	6040.0	7876.8	12168.0	15741.4
35°	874.2	970.5	1173.1	2071.3	3530.7	6069.1	9658.1	15708.8	21090.7	26310.7	30822.2
32.5°	970.5	1271.4	2273.1	4527.3	7430.8	14620.6	21792.3	29293.3	36053.4	40805.5	43800.2
30°	1173.1	2273.1	4862.5	8837.7	17658.2	26547.2	35485.2	41860.1	46320.9	49507.2	50270.1
27.5°	2071.3	4527.3	8837.7	18681.2	29000.3	39198.2	45042.8	49554.3	50682.8	51672.7	52250.5
25°	3530.7	7430.8	17658.2	29000.3	39978.7	46665.0	50142.9	51495.7	52397.3	53143.2	53785.0
22.5°	6069.1	14620.6	26547.2	39198.2	46665.0	50341.9	51838.7	52845.9	53773.2	54604.7	55425.1
20°	9658.1	21792.3	35485.2	45042.8	50142.9	51838.7	52998.0	54098.8	55158.9	56378.7	57622.2
17.5°	15708.8	29293.3	41860.1	49554.3	51495.7	52845.9	54098.8	55392.1	56873.1	59125.8	61377.6
15°	21090.7	36053.4	46320.9	50682.8	52397.3	53773.2	55158.9	56873.1	59641.5	63690.4	69342.0
12.5°	26310.7	40805.5	49507.2	51672.7	53143.2	54604.7	56378.7	59125.8	63690.4	70714.7	84201.2
10°	30822.2	43800.2	50270.1	52250.5	53785.0	55425.1	57622.2	61377.6	69342.0	84201.2	105522.4
7.5°	34390.7	46175.4	50877.3	52711.2	54303.2	56193.9	59272.4	65383.5	77638.4	99017.5	142839.3
5°	36973.0	47898.0	51318.9	53047.3	54682.9	56760.8	60498.4	68515.5	85597.6	118414.1	192705.9
2.5°	38536.1	48942.3	51587.1	53252.0	54914.9	57108.5	61254.9	70464.0	90608.9	135076.0	245960.4
0°	39059.5	49292.3	51677.1	53320.8	54993.0	57225.8	61510.8	71126.1	92323.2	142171.3	266090.9
-2.5°	38536.1	48942.3	51587.1	53252.0	54914.9	57108.5	61254.9	70464.0	90608.9	135076.0	245960.4
-5°	36973.0	47898.0	51318.9	53047.3	54682.9	56760.8	60498.4	68515.5	85597.6	118414.1	192705.9
-7.5°	34390.7	46175.4	50877.3	52711.2	54303.2	56193.9	59272.4	65383.5	77638.4	99017.5	142839.3
-10°	30822.2	43800.2	50270.1	52250.5	53785.0	55425.1	57622.2	61377.6	69342.0	84201.2	105522.4
-12.5°	26310.7	40805.5	49507.2	51672.7	53143.2	54604.7	56378.7	59125.8	63690.4	70714.7	84201.2
-15°	21090.7	36053.4	46320.9	50682.8	52397.3	53773.2	55158.9	56873.1	59641.5	63690.4	69342.0
-17.5°	15708.8	29293.3	41860.1	49554.3	51495.7	52845.9	54098.8	55392.1	56873.1	59125.8	61377.6
-20°	9658.1	21792.3	35485.2	45042.8	50142.9	51838.7	52998.0	54098.8	55158.9	56378.7	57622.2



REPORT NUMBER: P699947 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-1R-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6069.1	14620.6	26547.2	39198.2	46665.0	50341.9	51838.7	52845.9	53773.2	54604.7	55425.1
-25°	3530.7	7430.8	17658.2	29000.3	39978.7	46665.0	50142.9	51495.7	52397.3	53143.2	53785.0
-27.5°	2071.3	4527.3	8837.7	18681.2	29000.3	39198.2	45042.8	49554.3	50682.8	51672.7	52250.5
-30°	1173.1	2273.1	4862.5	8837.7	17658.2	26547.2	35485.2	41860.1	46320.9	49507.2	50270.1
-32.5°	970.5	1271.4	2273.1	4527.3	7430.8	14620.6	21792.3	29293.3	36053.4	40805.5	43800.2
-35°	874.2	970.5	1173.1	2071.3	3530.7	6069.1	9658.1	15708.8	21090.7	26310.7	30822.2
-37.5°	788.4	866.4	951.1	1036.9	1672.7	2409.9	4072.9	6040.0	7876.8	12168.0	15741.4
-40°	686.9	773.2	843.1	912.7	988.0	1086.8	1715.8	2283.2	3102.7	4490.2	5643.0
-42.5°	582.8	659.9	739.4	804.9	862.7	921.1	980.5	1034.0	1315.2	1713.4	2043.7
-45°	502.7	558.0	615.5	685.5	750.8	802.1	847.4	888.1	930.5	967.9	998.8
-47.5°	436.8	475.5	521.5	567.4	615.1	671.0	721.9	766.2	799.2	827.5	850.9
-50°	396.3	410.3	444.4	476.4	513.4	549.9	583.0	618.6	655.5	687.1	713.2
-52.5°	389.2	392.9	396.5	405.3	432.8	458.0	480.9	507.0	531.0	551.4	568.3
-55°	382.0	385.4	388.7	391.7	394.6	397.2	403.0	421.8	438.2	452.3	463.8
-57.5°	248.2	327.4	380.9	383.7	386.2	388.6	390.7	392.7	394.4	395.8	397.0
-60°	130.0	141.6	205.1	268.6	327.4	380.0	382.0	383.7	385.2	386.5	387.6
-62.5°	102.4	110.9	120.8	130.0	138.5	166.4	210.5	249.7	283.9	313.0	337.0
-65°	87.4	92.2	96.7	100.8	104.8	111.8	118.2	123.8	128.7	132.9	136.3
-67.5°	78.9	81.1	83.0	84.9	87.7	90.9	93.7	96.2	98.4	100.2	101.8
-70°	66.7	70.4	73.9	76.6	78.1	79.5	80.7	81.8	82.8	83.6	84.3
-72.5°	54.2	55.8	57.7	60.6	63.2	65.6	67.7	69.7	71.3	72.7	73.9
-75°	46.5	47.9	49.2	50.4	51.6	52.6	53.5	54.3	55.0	55.6	56.1
-77.5°	38.8	40.0	41.1	42.1	43.0	43.8	44.6	45.3	45.9	46.4	46.8
-80°	31.1	32.0	32.9	33.7	34.4	35.1	35.7	36.2	36.7	37.1	37.4
-82.5°	23.3	24.0	24.7	25.3	25.8	26.3	26.8	27.2	27.5	27.8	28.1
-85°	15.6	16.0	16.4	16.8	17.2	17.6	17.9	18.1	18.4	18.5	18.7
-87.5°	7.8	8.0	8.2	8.4	8.6	8.8	8.9	9.1	9.2	9.3	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: P699947 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-1R-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°	9.4	9.5	9.5	9.5	9.5	9.5	9.4	9.4	9.3	9.2	9.1
85°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.7	18.5	18.4	18.1
82.5°	28.3	28.4	28.5	28.5	28.5	28.4	28.3	28.1	27.8	27.5	27.2
80°	37.7	37.9	38.0	38.0	38.0	37.9	37.7	37.4	37.1	36.7	36.2
77.5°	47.1	47.3	47.5	47.5	47.5	47.3	47.1	46.8	46.4	45.9	45.3
75°	56.5	56.8	56.9	57.0	56.9	56.8	56.5	56.1	55.6	55.0	54.3
72.5°	74.8	75.5	75.9	76.0	75.9	75.5	74.8	73.9	72.7	71.3	69.7
70°	84.8	85.2	85.4	85.5	85.4	85.2	84.8	84.3	83.6	82.8	81.8
67.5°	103.0	103.8	104.3	104.5	104.3	103.8	103.0	101.8	100.2	98.4	96.2
65°	139.0	141.0	142.1	142.5	142.1	141.0	139.0	136.3	132.9	128.7	123.8
62.5°	355.8	369.2	377.3	380.0	377.3	369.2	355.8	337.0	313.0	283.9	249.7
60°	388.4	389.0	389.4	389.5	389.4	389.0	388.4	387.6	386.5	385.2	383.7
57.5°	397.9	398.6	399.0	399.1	399.0	398.6	397.9	397.0	395.8	394.4	392.7
55°	472.9	479.4	483.3	484.6	483.3	479.4	472.9	463.8	452.3	438.2	421.8
52.5°	581.5	591.0	596.7	598.6	596.7	591.0	581.5	568.3	551.4	531.0	507.0
50°	733.6	748.3	757.1	760.1	757.1	748.3	733.6	713.2	687.1	655.5	618.6
47.5°	869.3	882.5	890.4	893.1	890.4	882.5	869.3	850.9	827.5	799.2	766.2
45°	1023.1	1040.5	1051.1	1054.6	1051.1	1040.5	1023.1	998.8	967.9	930.5	888.1
42.5°	2303.5	2490.6	2603.6	2641.3	2603.6	2490.6	2303.5	2043.7	1713.4	1315.2	1034.0
40°	6551.1	7206.1	7601.7	7734.0	7601.7	7206.1	6551.1	5643.0	4490.2	3102.7	2283.2
37.5°	18561.6	20598.6	21830.2	22242.3	21830.2	20598.6	18561.6	15741.4	12168.0	7876.8	6040.0
35°	34390.7	36973.0	38536.1	39059.5	38536.1	36973.0	34390.7	30822.2	26310.7	21090.7	15708.8
32.5°	46175.4	47898.0	48942.3	49292.3	48942.3	47898.0	46175.4	43800.2	40805.5	36053.4	29293.3
30°	50877.3	51318.9	51587.1	51677.1	51587.1	51318.9	50877.3	50270.1	49507.2	46320.9	41860.1
27.5°	52711.2	53047.3	53252.0	53320.8	53252.0	53047.3	52711.2	52250.5	51672.7	50682.8	49554.3
25°	54303.2	54682.9	54914.9	54993.0	54914.9	54682.9	54303.2	53785.0	53143.2	52397.3	51495.7
22.5°	56193.9	56760.8	57108.5	57225.8	57108.5	56760.8	56193.9	55425.1	54604.7	53773.2	52845.9
20°	59272.4	60498.4	61254.9	61510.8	61254.9	60498.4	59272.4	57622.2	56378.7	55158.9	54098.8
17.5°	65383.5	68515.5	70464.0	71126.1	70464.0	68515.5	65383.5	61377.6	59125.8	56873.1	55392.1
15°	77638.4	85597.6	90608.9	92323.2	90608.9	85597.6	77638.4	69342.0	63690.4	59641.5	56873.1
12.5°	99017.5	118414.1	135076.0	142171.3	135076.0	118414.1	99017.5	84201.2	70714.7	63690.4	59125.8
10°	142839.3	192705.9	245960.4	266090.9	245960.4	192705.9	142839.3	105522.4	84201.2	69342.0	61377.6
7.5°	227015.5	363778.1	519414.5	597502.6	519414.5	363778.1	227015.5	142839.3	99017.5	77638.4	65383.5
5°	363778.1	681395.8	#####	#####	#####	681395.8	363778.1	192705.9	118414.1	85597.6	68515.5
2.5°	519414.5	#####	#####	#####	#####	#####	519414.5	245960.4	135076.0	90608.9	70464.0
0°	597502.6	#####	#####	#####	#####	#####	597502.6	266090.9	142171.3	92323.2	71126.1
-2.5°	519414.5	#####	#####	#####	#####	#####	519414.5	245960.4	135076.0	90608.9	70464.0
-5°	363778.1	681395.8	#####	#####	#####	681395.8	363778.1	192705.9	118414.1	85597.6	68515.5
-7.5°	227015.5	363778.1	519414.5	597502.6	519414.5	363778.1	227015.5	142839.3	99017.5	77638.4	65383.5
-10°	142839.3	192705.9	245960.4	266090.9	245960.4	192705.9	142839.3	105522.4	84201.2	69342.0	61377.6
-12.5°	99017.5	118414.1	135076.0	142171.3	135076.0	118414.1	99017.5	84201.2	70714.7	63690.4	59125.8
-15°	77638.4	85597.6	90608.9	92323.2	90608.9	85597.6	77638.4	69342.0	63690.4	59641.5	56873.1
-17.5°	65383.5	68515.5	70464.0	71126.1	70464.0	68515.5	65383.5	61377.6	59125.8	56873.1	55392.1
-20°	59272.4	60498.4	61254.9	61510.8	61254.9	60498.4	59272.4	57622.2	56378.7	55158.9	54098.8



REPORT NUMBER: P699947 (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°	56193.9	56760.8	57108.5	57225.8	57108.5	56760.8	56193.9	55425.1	54604.7	53773.2	52845.9
-25°	54303.2	54682.9	54914.9	54993.0	54914.9	54682.9	54303.2	53785.0	53143.2	52397.3	51495.7
-27.5°	52711.2	53047.3	53252.0	53320.8	53252.0	53047.3	52711.2	52250.5	51672.7	50682.8	49554.3
-30°	50877.3	51318.9	51587.1	51677.1	51587.1	51318.9	50877.3	50270.1	49507.2	46320.9	41860.1
-32.5°	46175.4	47898.0	48942.3	49292.3	48942.3	47898.0	46175.4	43800.2	40805.5	36053.4	29293.3
-35°	34390.7	36973.0	38536.1	39059.5	38536.1	36973.0	34390.7	30822.2	26310.7	21090.7	15708.8
-37.5°	18561.6	20598.6	21830.2	22242.3	21830.2	20598.6	18561.6	15741.4	12168.0	7876.8	6040.0
-40°	6551.1	7206.1	7601.7	7734.0	7601.7	7206.1	6551.1	5643.0	4490.2	3102.7	2283.2
-42.5°	2303.5	2490.6	2603.6	2641.3	2603.6	2490.6	2303.5	2043.7	1713.4	1315.2	1034.0
-45°	1023.1	1040.5	1051.1	1054.6	1051.1	1040.5	1023.1	998.8	967.9	930.5	888.1
-47.5°	869.3	882.5	890.4	893.1	890.4	882.5	869.3	850.9	827.5	799.2	766.2
-50°	733.6	748.3	757.1	760.1	757.1	748.3	733.6	713.2	687.1	655.5	618.6
-52.5°	581.5	591.0	596.7	598.6	596.7	591.0	581.5	568.3	551.4	531.0	507.0
-55°	472.9	479.4	483.3	484.6	483.3	479.4	472.9	463.8	452.3	438.2	421.8
-57.5°	397.9	398.6	399.0	399.1	399.0	398.6	397.9	397.0	395.8	394.4	392.7
-60°	388.4	389.0	389.4	389.5	389.4	389.0	388.4	387.6	386.5	385.2	383.7
-62.5°	355.8	369.2	377.3	380.0	377.3	369.2	355.8	337.0	313.0	283.9	249.7
-65°	139.0	141.0	142.1	142.5	142.1	141.0	139.0	136.3	132.9	128.7	123.8
-67.5°	103.0	103.8	104.3	104.5	104.3	103.8	103.0	101.8	100.2	98.4	96.2
-70°	84.8	85.2	85.4	85.5	85.4	85.2	84.8	84.3	83.6	82.8	81.8
-72.5°	74.8	75.5	75.9	76.0	75.9	75.5	74.8	73.9	72.7	71.3	69.7
-75°	56.5	56.8	56.9	57.0	56.9	56.8	56.5	56.1	55.6	55.0	54.3
-77.5°	47.1	47.3	47.5	47.5	47.5	47.3	47.1	46.8	46.4	45.9	45.3
-80°	37.7	37.9	38.0	38.0	38.0	37.9	37.7	37.4	37.1	36.7	36.2
-82.5°	28.3	28.4	28.5	28.5	28.5	28.4	28.3	28.1	27.8	27.5	27.2
-85°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.7	18.5	18.4	18.1
-87.5°	9.4	9.5	9.5	9.5	9.5	9.5	9.4	9.4	9.3	9.2	9.1
-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°	8.9	8.8	8.6	8.4	8.2	8.0	7.8	7.5	7.3	7.0	6.7
85°	17.9	17.6	17.2	16.8	16.4	16.0	15.6	15.1	14.5	14.0	13.4
82.5°	26.8	26.3	25.8	25.3	24.7	24.0	23.3	22.6	21.8	21.0	20.1
80°	35.7	35.1	34.4	33.7	32.9	32.0	31.1	30.1	29.0	28.0	26.8
77.5°	44.6	43.8	43.0	42.1	41.1	40.0	38.8	37.6	36.3	34.9	33.5
75°	53.5	52.6	51.6	50.4	49.2	47.9	46.5	45.0	43.5	41.8	40.1
72.5°	67.7	65.6	63.2	60.6	57.7	55.8	54.2	52.4	50.6	48.7	46.7
70°	80.7	79.5	78.1	76.6	73.9	70.4	66.7	62.7	58.4	55.5	53.2
67.5°	93.7	90.9	87.7	84.9	83.0	81.1	78.9	76.7	72.6	67.6	62.3
65°	118.2	111.8	104.8	100.8	96.7	92.2	87.4	83.9	81.3	78.5	75.1
62.5°	210.5	166.4	138.5	130.0	120.8	110.9	102.4	96.8	90.9	85.1	81.9
60°	382.0	380.0	327.4	268.6	205.1	141.6	130.0	117.7	104.8	97.9	90.9
57.5°	390.7	388.6	386.2	383.7	380.9	327.4	248.2	164.4	131.9	117.2	103.2
55°	403.0	397.2	394.6	391.7	388.7	385.4	382.0	339.0	243.6	144.1	126.2
52.5°	480.9	458.0	432.8	405.3	396.5	392.9	389.2	385.2	381.1	301.0	189.7
50°	583.0	549.9	513.4	476.4	444.4	410.3	396.3	392.0	387.6	383.0	335.7
47.5°	721.9	671.0	615.1	567.4	521.5	475.5	436.8	398.8	394.0	389.0	383.9
45°	847.4	802.1	750.8	685.5	615.5	558.0	502.7	454.6	409.3	395.0	389.5
42.5°	980.5	921.1	862.7	804.9	739.4	659.9	582.8	521.0	463.7	413.7	395.0
40°	1715.8	1086.8	988.0	912.7	843.1	773.2	686.9	595.3	527.1	463.7	409.3
37.5°	4072.9	2409.9	1672.7	1036.9	951.1	866.4	788.4	695.9	595.3	521.0	454.6
35°	9658.1	6069.1	3530.7	2071.3	1173.1	970.5	874.2	788.4	686.9	582.8	502.7
32.5°	21792.3	14620.6	7430.8	4527.3	2273.1	1271.4	970.5	866.4	773.2	659.9	558.0
30°	35485.2	26547.2	17658.2	8837.7	4862.5	2273.1	1173.1	951.1	843.1	739.4	615.5
27.5°	45042.8	39198.2	29000.3	18681.2	8837.7	4527.3	2071.3	1036.9	912.7	804.9	685.5
25°	50142.9	46665.0	39978.7	29000.3	17658.2	7430.8	3530.7	1672.7	988.0	862.7	750.8
22.5°	51838.7	50341.9	46665.0	39198.2	26547.2	14620.6	6069.1	2409.9	1086.8	921.1	802.1
20°	52998.0	51838.7	50142.9	45042.8	35485.2	21792.3	9658.1	4072.9	1715.8	980.5	847.4
17.5°	54098.8	52845.9	51495.7	49554.3	41860.1	29293.3	15708.8	6040.0	2283.2	1034.0	888.1
15°	55158.9	53773.2	52397.3	50682.8	46320.9	36053.4	21090.7	7876.8	3102.7	1315.2	930.5
12.5°	56378.7	54604.7	53143.2	51672.7	49507.2	40805.5	26310.7	12168.0	4490.2	1713.4	967.9
10°	57622.2	55425.1	53785.0	52250.5	50270.1	43800.2	30822.2	15741.4	5643.0	2043.7	998.8
7.5°	59272.4	56193.9	54303.2	52711.2	50877.3	46175.4	34390.7	18561.6	6551.1	2303.5	1023.1
5°	60498.4	56760.8	54682.9	53047.3	51318.9	47898.0	36973.0	20598.6	7206.1	2490.6	1040.5
2.5°	61254.9	57108.5	54914.9	53252.0	51587.1	48942.3	38536.1	21830.2	7601.7	2603.6	1051.1
0°	<b>61510.8</b>	<b>57225.8</b>	<b>54993.0</b>	<b>53320.8</b>	<b>51677.1</b>	<b>49292.3</b>	<b>39059.5</b>	<b>22242.3</b>	<b>7734.0</b>	<b>2641.3</b>	<b>1054.6</b>
-2.5°	61254.9	57108.5	54914.9	53252.0	51587.1	48942.3	38536.1	21830.2	7601.7	2603.6	1051.1
-5°	60498.4	56760.8	54682.9	53047.3	51318.9	47898.0	36973.0	20598.6	7206.1	2490.6	1040.5
-7.5°	59272.4	56193.9	54303.2	52711.2	50877.3	46175.4	34390.7	18561.6	6551.1	2303.5	1023.1
-10°	57622.2	55425.1	53785.0	52250.5	50270.1	43800.2	30822.2	15741.4	5643.0	2043.7	998.8
-12.5°	56378.7	54604.7	53143.2	51672.7	49507.2	40805.5	26310.7	12168.0	4490.2	1713.4	967.9
-15°	55158.9	53773.2	52397.3	50682.8	46320.9	36053.4	21090.7	7876.8	3102.7	1315.2	930.5
-17.5°	54098.8	52845.9	51495.7	49554.3	41860.1	29293.3	15708.8	6040.0	2283.2	1034.0	888.1
-20°	52998.0	51838.7	50142.9	45042.8	35485.2	21792.3	9658.1	4072.9	1715.8	980.5	847.4





REPORT NUMBER: P699947 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-1R-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	51838.7	50341.9	46665.0	39198.2	26547.2	14620.6	6069.1	2409.9	1086.8	921.1	802.1
-25°	50142.9	46665.0	39978.7	29000.3	17658.2	7430.8	3530.7	1672.7	988.0	862.7	750.8
-27.5°	45042.8	39198.2	29000.3	18681.2	8837.7	4527.3	2071.3	1036.9	912.7	804.9	685.5
-30°	35485.2	26547.2	17658.2	8837.7	4862.5	2273.1	1173.1	951.1	843.1	739.4	615.5
-32.5°	21792.3	14620.6	7430.8	4527.3	2273.1	1271.4	970.5	866.4	773.2	659.9	558.0
-35°	9658.1	6069.1	3530.7	2071.3	1173.1	970.5	874.2	788.4	686.9	582.8	502.7
-37.5°	4072.9	2409.9	1672.7	1036.9	951.1	866.4	788.4	695.9	595.3	521.0	454.6
-40°	1715.8	1086.8	988.0	912.7	843.1	773.2	686.9	595.3	527.1	463.7	409.3
-42.5°	980.5	921.1	862.7	804.9	739.4	659.9	582.8	521.0	463.7	413.7	395.0
-45°	847.4	802.1	750.8	685.5	615.5	558.0	502.7	454.6	409.3	395.0	389.5
-47.5°	721.9	671.0	615.1	567.4	521.5	475.5	436.8	398.8	394.0	389.0	383.9
-50°	583.0	549.9	513.4	476.4	444.4	410.3	396.3	392.0	387.6	383.0	335.7
-52.5°	480.9	458.0	432.8	405.3	396.5	392.9	389.2	385.2	381.1	301.0	189.7
-55°	403.0	397.2	394.6	391.7	388.7	385.4	382.0	339.0	243.6	144.1	126.2
-57.5°	390.7	388.6	386.2	383.7	380.9	327.4	248.2	164.4	131.9	117.2	103.2
-60°	382.0	380.0	327.4	268.6	205.1	141.6	130.0	117.7	104.8	97.9	90.9
-62.5°	210.5	166.4	138.5	130.0	120.8	110.9	102.4	96.8	90.9	85.1	81.9
-65°	118.2	111.8	104.8	100.8	96.7	92.2	87.4	83.9	81.3	78.5	75.1
-67.5°	93.7	90.9	87.7	84.9	83.0	81.1	78.9	76.7	72.6	67.6	62.3
-70°	80.7	79.5	78.1	76.6	73.9	70.4	66.7	62.7	58.4	55.5	53.2
-72.5°	67.7	65.6	63.2	60.6	57.7	55.8	54.2	52.4	50.6	48.7	46.7
-75°	53.5	52.6	51.6	50.4	49.2	47.9	46.5	45.0	43.5	41.8	40.1
-77.5°	44.6	43.8	43.0	42.1	41.1	40.0	38.8	37.6	36.3	34.9	33.5
-80°	35.7	35.1	34.4	33.7	32.9	32.0	31.1	30.1	29.0	28.0	26.8
-82.5°	26.8	26.3	25.8	25.3	24.7	24.0	23.3	22.6	21.8	21.0	20.1
-85°	17.9	17.6	17.2	16.8	16.4	16.0	15.6	15.1	14.5	14.0	13.4
-87.5°	8.9	8.8	8.6	8.4	8.2	8.0	7.8	7.5	7.3	7.0	6.7
-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: P699947 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
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°	6.4	6.1	5.8	5.4	5.1	4.7	4.4	4.0	3.6	3.2	2.9
85°	12.8	12.2	11.6	10.9	10.2	9.5	8.8	8.0	7.3	6.5	5.7
82.5°	19.2	18.3	17.3	16.3	15.3	14.2	13.1	12.0	10.9	9.7	8.5
80°	25.6	24.4	23.1	21.7	20.3	18.9	17.5	16.0	14.5	12.9	11.4
77.5°	32.0	30.4	28.8	27.1	25.4	23.6	21.8	19.9	18.1	16.1	14.2
75°	38.3	36.4	34.4	32.4	30.4	28.3	26.1	23.9	21.6	19.3	17.0
72.5°	44.5	42.4	40.1	37.7	35.3	32.9	30.3	27.7	25.1	22.4	19.7
70°	50.8	48.3	45.7	43.0	40.2	37.4	34.5	31.6	28.6	25.5	22.4
67.5°	56.9	54.1	51.2	48.2	45.1	41.9	38.7	35.4	32.0	28.6	25.1
65°	69.1	62.8	56.7	53.3	49.9	46.4	42.8	39.1	35.4	31.6	27.7
62.5°	78.6	74.2	67.1	59.7	54.6	50.7	46.8	42.8	38.7	34.5	30.3
60°	84.5	80.7	76.8	69.7	61.4	55.0	50.7	46.4	41.9	37.4	32.9
57.5°	95.3	87.1	82.0	77.7	70.5	61.4	54.6	49.9	45.1	40.2	35.3
55°	109.0	97.9	88.8	82.5	77.7	69.7	59.7	53.3	48.2	43.0	37.7
52.5°	131.6	112.6	98.8	88.8	82.0	76.8	67.1	56.7	51.2	45.7	40.1
50°	212.6	133.4	112.6	97.9	87.1	80.7	74.2	62.8	54.1	48.3	42.4
47.5°	347.4	212.6	131.6	109.0	95.3	84.5	78.6	69.1	56.9	50.8	44.5
45°	383.9	335.7	189.7	126.2	103.2	90.9	81.9	75.1	62.3	53.2	46.7
42.5°	389.0	383.0	301.0	144.1	117.2	97.9	85.1	78.5	67.6	55.5	48.7
40°	394.0	387.6	381.1	243.6	131.9	104.8	90.9	81.3	72.6	58.4	50.6
37.5°	398.8	392.0	385.2	339.0	164.4	117.7	96.8	83.9	76.7	62.7	52.4
35°	436.8	396.3	389.2	382.0	248.2	130.0	102.4	87.4	78.9	66.7	54.2
32.5°	475.5	410.3	392.9	385.4	327.4	141.6	110.9	92.2	81.1	70.4	55.8
30°	521.5	444.4	396.5	388.7	380.9	205.1	120.8	96.7	83.0	73.9	57.7
27.5°	567.4	476.4	405.3	391.7	383.7	268.6	130.0	100.8	84.9	76.6	60.6
25°	615.1	513.4	432.8	394.6	386.2	327.4	138.5	104.8	87.7	78.1	63.2
22.5°	671.0	549.9	458.0	397.2	388.6	380.0	166.4	111.8	90.9	79.5	65.6
20°	721.9	583.0	480.9	403.0	390.7	382.0	210.5	118.2	93.7	80.7	67.7
17.5°	766.2	618.6	507.0	421.8	392.7	383.7	249.7	123.8	96.2	81.8	69.7
15°	799.2	655.5	531.0	438.2	394.4	385.2	283.9	128.7	98.4	82.8	71.3
12.5°	827.5	687.1	551.4	452.3	395.8	386.5	313.0	132.9	100.2	83.6	72.7
10°	850.9	713.2	568.3	463.8	397.0	387.6	337.0	136.3	101.8	84.3	73.9
7.5°	869.3	733.6	581.5	472.9	397.9	388.4	355.8	139.0	103.0	84.8	74.8
5°	882.5	748.3	591.0	479.4	398.6	389.0	369.2	141.0	103.8	85.2	75.5
2.5°	890.4	757.1	596.7	483.3	399.0	389.4	377.3	142.1	104.3	85.4	75.9
0°	<b>893.1</b>	<b>760.1</b>	<b>598.6</b>	<b>484.6</b>	<b>399.1</b>	<b>389.5</b>	<b>380.0</b>	<b>142.5</b>	<b>104.5</b>	<b>85.5</b>	<b>76.0</b>
-2.5°	890.4	757.1	596.7	483.3	399.0	389.4	377.3	142.1	104.3	85.4	75.9
-5°	882.5	748.3	591.0	479.4	398.6	389.0	369.2	141.0	103.8	85.2	75.5
-7.5°	869.3	733.6	581.5	472.9	397.9	388.4	355.8	139.0	103.0	84.8	74.8
-10°	850.9	713.2	568.3	463.8	397.0	387.6	337.0	136.3	101.8	84.3	73.9
-12.5°	827.5	687.1	551.4	452.3	395.8	386.5	313.0	132.9	100.2	83.6	72.7
-15°	799.2	655.5	531.0	438.2	394.4	385.2	283.9	128.7	98.4	82.8	71.3
-17.5°	766.2	618.6	507.0	421.8	392.7	383.7	249.7	123.8	96.2	81.8	69.7
-20°	721.9	583.0	480.9	403.0	390.7	382.0	210.5	118.2	93.7	80.7	67.7



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	671.0	549.9	458.0	397.2	388.6	380.0	166.4	111.8	90.9	79.5	65.6
-25°	615.1	513.4	432.8	394.6	386.2	327.4	138.5	104.8	87.7	78.1	63.2
-27.5°	567.4	476.4	405.3	391.7	383.7	268.6	130.0	100.8	84.9	76.6	60.6
-30°	521.5	444.4	396.5	388.7	380.9	205.1	120.8	96.7	83.0	73.9	57.7
-32.5°	475.5	410.3	392.9	385.4	327.4	141.6	110.9	92.2	81.1	70.4	55.8
-35°	436.8	396.3	389.2	382.0	248.2	130.0	102.4	87.4	78.9	66.7	54.2
-37.5°	398.8	392.0	385.2	339.0	164.4	117.7	96.8	83.9	76.7	62.7	52.4
-40°	394.0	387.6	381.1	243.6	131.9	104.8	90.9	81.3	72.6	58.4	50.6
-42.5°	389.0	383.0	301.0	144.1	117.2	97.9	85.1	78.5	67.6	55.5	48.7
-45°	383.9	335.7	189.7	126.2	103.2	90.9	81.9	75.1	62.3	53.2	46.7
-47.5°	347.4	212.6	131.6	109.0	95.3	84.5	78.6	69.1	56.9	50.8	44.5
-50°	212.6	133.4	112.6	97.9	87.1	80.7	74.2	62.8	54.1	48.3	42.4
-52.5°	131.6	112.6	98.8	88.8	82.0	76.8	67.1	56.7	51.2	45.7	40.1
-55°	109.0	97.9	88.8	82.5	77.7	69.7	59.7	53.3	48.2	43.0	37.7
-57.5°	95.3	87.1	82.0	77.7	70.5	61.4	54.6	49.9	45.1	40.2	35.3
-60°	84.5	80.7	76.8	69.7	61.4	55.0	50.7	46.4	41.9	37.4	32.9
-62.5°	78.6	74.2	67.1	59.7	54.6	50.7	46.8	42.8	38.7	34.5	30.3
-65°	69.1	62.8	56.7	53.3	49.9	46.4	42.8	39.1	35.4	31.6	27.7
-67.5°	56.9	54.1	51.2	48.2	45.1	41.9	38.7	35.4	32.0	28.6	25.1
-70°	50.8	48.3	45.7	43.0	40.2	37.4	34.5	31.6	28.6	25.5	22.4
-72.5°	44.5	42.4	40.1	37.7	35.3	32.9	30.3	27.7	25.1	22.4	19.7
-75°	38.3	36.4	34.4	32.4	30.4	28.3	26.1	23.9	21.6	19.3	17.0
-77.5°	32.0	30.4	28.8	27.1	25.4	23.6	21.8	19.9	18.1	16.1	14.2
-80°	25.6	24.4	23.1	21.7	20.3	18.9	17.5	16.0	14.5	12.9	11.4
-82.5°	19.2	18.3	17.3	16.3	15.3	14.2	13.1	12.0	10.9	9.7	8.5
-85°	12.8	12.2	11.6	10.9	10.2	9.5	8.8	8.0	7.3	6.5	5.7
-87.5°	6.4	6.1	5.8	5.4	5.1	4.7	4.4	4.0	3.6	3.2	2.9
-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°	2.5	2.1	1.6	1.2	0.8	0.4	0.0
85°	4.9	4.1	3.3	2.5	1.7	0.8	0.0
82.5°	7.4	6.2	4.9	3.7	2.5	1.2	0.0
80°	9.8	8.2	6.6	4.9	3.3	1.6	0.0
77.5°	12.2	10.2	8.2	6.2	4.1	2.1	0.0
75°	14.6	12.2	9.8	7.4	4.9	2.5	0.0
72.5°	17.0	14.2	11.4	8.5	5.7	2.9	0.0
70°	19.3	16.1	12.9	9.7	6.5	3.2	0.0
67.5°	21.6	18.1	14.5	10.9	7.3	3.6	0.0
65°	23.9	19.9	16.0	12.0	8.0	4.0	0.0
62.5°	26.1	21.8	17.5	13.1	8.8	4.4	0.0
60°	28.3	23.6	18.9	14.2	9.5	4.7	0.0
57.5°	30.4	25.4	20.3	15.3	10.2	5.1	0.0
55°	32.4	27.1	21.7	16.3	10.9	5.4	0.0
52.5°	34.4	28.8	23.1	17.3	11.6	5.8	0.0
50°	36.4	30.4	24.4	18.3	12.2	6.1	0.0
47.5°	38.3	32.0	25.6	19.2	12.8	6.4	0.0
45°	40.1	33.5	26.8	20.1	13.4	6.7	0.0
42.5°	41.8	34.9	28.0	21.0	14.0	7.0	0.0
40°	43.5	36.3	29.0	21.8	14.5	7.3	0.0
37.5°	45.0	37.6	30.1	22.6	15.1	7.5	0.0
35°	46.5	38.8	31.1	23.3	15.6	7.8	0.0
32.5°	47.9	40.0	32.0	24.0	16.0	8.0	0.0
30°	49.2	41.1	32.9	24.7	16.4	8.2	0.0
27.5°	50.4	42.1	33.7	25.3	16.8	8.4	0.0
25°	51.6	43.0	34.4	25.8	17.2	8.6	0.0
22.5°	52.6	43.8	35.1	26.3	17.6	8.8	0.0
20°	53.5	44.6	35.7	26.8	17.9	8.9	0.0
17.5°	54.3	45.3	36.2	27.2	18.1	9.1	0.0
15°	55.0	45.9	36.7	27.5	18.4	9.2	0.0
12.5°	55.6	46.4	37.1	27.8	18.5	9.3	0.0
10°	56.1	46.8	37.4	28.1	18.7	9.4	0.0
7.5°	56.5	47.1	37.7	28.3	18.8	9.4	0.0
5°	56.8	47.3	37.9	28.4	18.9	9.5	0.0
2.5°	56.9	47.5	38.0	28.5	19.0	9.5	0.0
0°	57.0	47.5	38.0	28.5	19.0	9.5	0.0
-2.5°	56.9	47.5	38.0	28.5	19.0	9.5	0.0
-5°	56.8	47.3	37.9	28.4	18.9	9.5	0.0
-7.5°	56.5	47.1	37.7	28.3	18.8	9.4	0.0
-10°	56.1	46.8	37.4	28.1	18.7	9.4	0.0
-12.5°	55.6	46.4	37.1	27.8	18.5	9.3	0.0
-15°	55.0	45.9	36.7	27.5	18.4	9.2	0.0
-17.5°	54.3	45.3	36.2	27.2	18.1	9.1	0.0
-20°	53.5	44.6	35.7	26.8	17.9	8.9	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	52.6	43.8	35.1	26.3	17.6	8.8	0.0
-25°	51.6	43.0	34.4	25.8	17.2	8.6	0.0
-27.5°	50.4	42.1	33.7	25.3	16.8	8.4	0.0
-30°	49.2	41.1	32.9	24.7	16.4	8.2	0.0
-32.5°	47.9	40.0	32.0	24.0	16.0	8.0	0.0
-35°	46.5	38.8	31.1	23.3	15.6	7.8	0.0
-37.5°	45.0	37.6	30.1	22.6	15.1	7.5	0.0
-40°	43.5	36.3	29.0	21.8	14.5	7.3	0.0
-42.5°	41.8	34.9	28.0	21.0	14.0	7.0	0.0
-45°	40.1	33.5	26.8	20.1	13.4	6.7	0.0
-47.5°	38.3	32.0	25.6	19.2	12.8	6.4	0.0
-50°	36.4	30.4	24.4	18.3	12.2	6.1	0.0
-52.5°	34.4	28.8	23.1	17.3	11.6	5.8	0.0
-55°	32.4	27.1	21.7	16.3	10.9	5.4	0.0
-57.5°	30.4	25.4	20.3	15.3	10.2	5.1	0.0
-60°	28.3	23.6	18.9	14.2	9.5	4.7	0.0
-62.5°	26.1	21.8	17.5	13.1	8.8	4.4	0.0
-65°	23.9	19.9	16.0	12.0	8.0	4.0	0.0
-67.5°	21.6	18.1	14.5	10.9	7.3	3.6	0.0
-70°	19.3	16.1	12.9	9.7	6.5	3.2	0.0
-72.5°	17.0	14.2	11.4	8.5	5.7	2.9	0.0
-75°	14.6	12.2	9.8	7.4	4.9	2.5	0.0
-77.5°	12.2	10.2	8.2	6.2	4.1	2.1	0.0
-80°	9.8	8.2	6.6	4.9	3.3	1.6	0.0
-82.5°	7.4	6.2	4.9	3.7	2.5	1.2	0.0
-85°	4.9	4.1	3.3	2.5	1.7	0.8	0.0
-87.5°	2.5	2.1	1.6	1.2	0.8	0.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)