

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: P699946 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/10/2023

**Test Information**

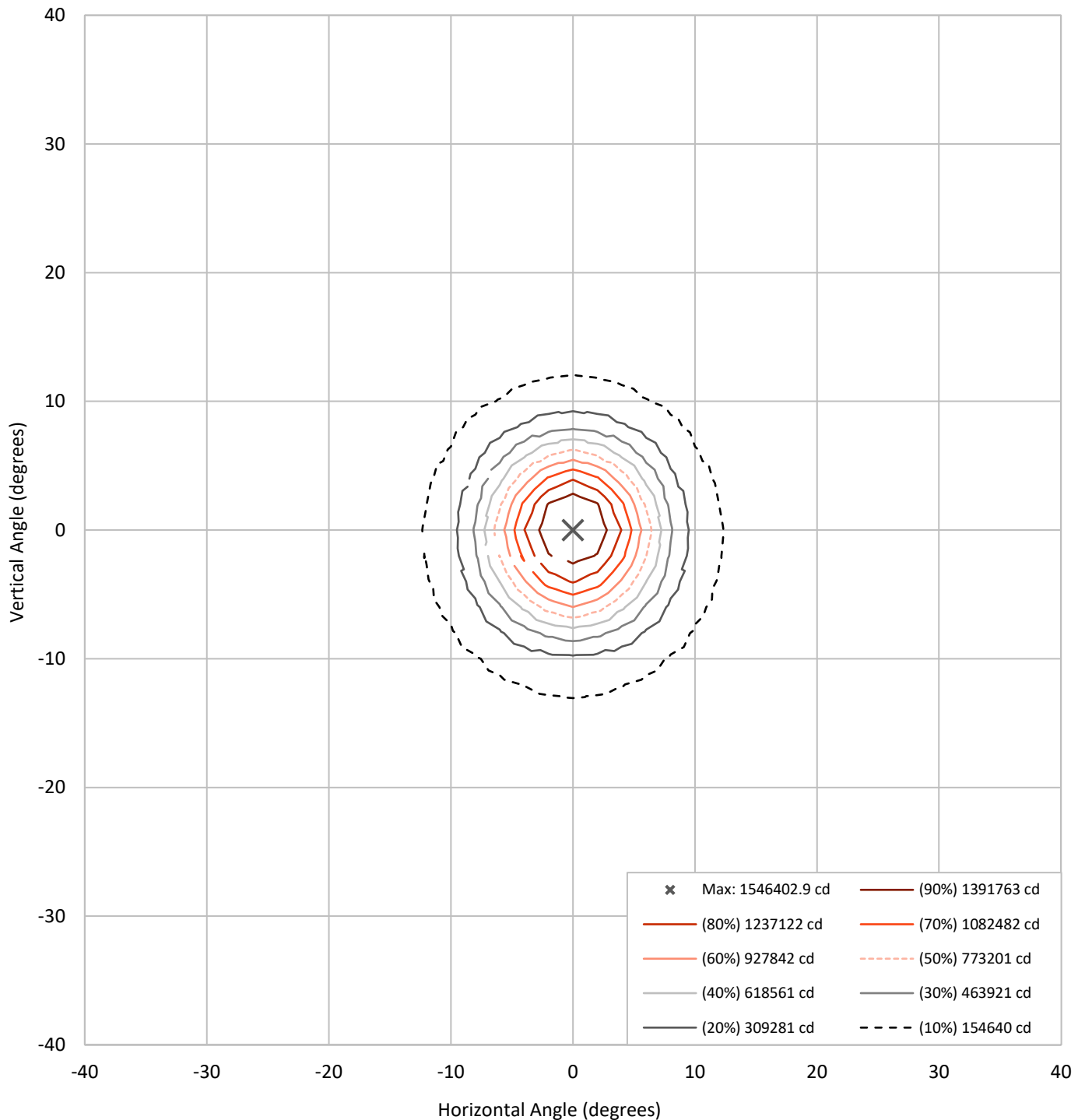
Test Method: LM-79-08  
Report Number: P699946 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200R-40-80-1L-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 4000K, 80 CRI LEDS AND 1L BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	160591 lumens	Max Intensity:	1546402.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	124.6 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	12.8°H x 13°V	Field Angle (10%):	24.4°H x 24.6°V
Beam Lumens:	39806.4 lumens	Field Lumens:	79964.6 lumens
Beam Efficiency:	24.8%	Field Efficiency:	49.8%
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





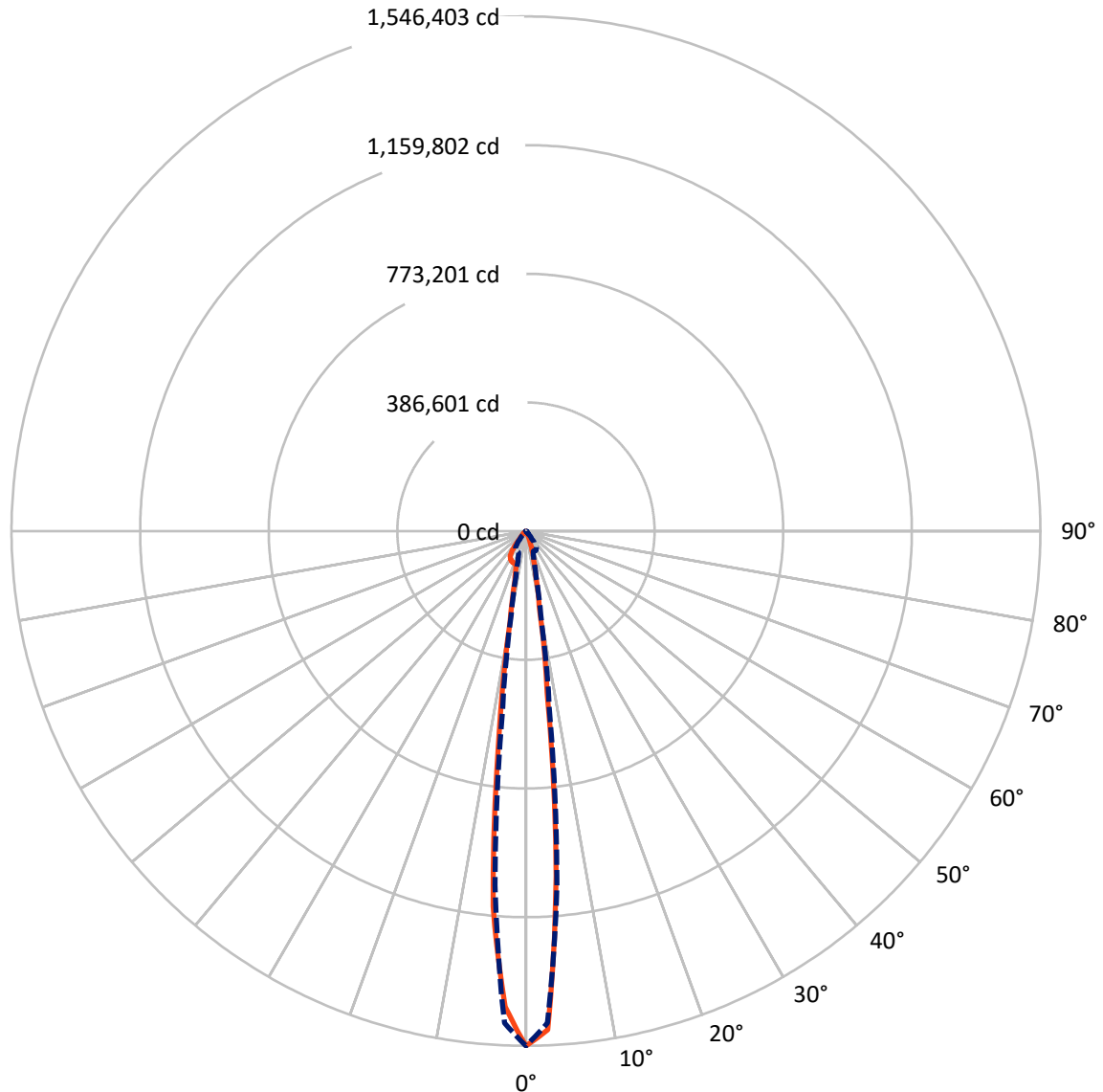
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### Lumen Table

90	0.4	1.6		2.7		3.5		3.7		3.5		2.7		1.6		0.4	
80	0.4	1.6		2.7		3.5		3.7		3.5		2.7		1.6		0.4	
70	0.7	0.5	0.8	1.2	1.8	2.5	3.0	3.3	3.3	3.0	2.5	1.8	1.2	0.8	0.5	0.7	
60		0.6	1.2	2.3	4.0	6.2	9.9	15.5	15.5	9.9	6.2	4.0	2.3	1.2	0.6		
50	0.9	0.8	2.2	5.9	10.4	19.0	28.8	41.1	41.1	28.8	19.0	10.4	5.9	2.2	0.8	0.9	
40		1.0	4.9	12.8	26.1	36.9	56.2	65.9	65.9	56.2	36.9	26.1	12.8	4.9	1.0		
30	1.0	1.5	7.4	28.4	100.7	276.1	462.3	544.5	544.5	462.3	276.1	100.7	28.4	7.4	1.5	1.0	
20		2.2	11.1	65.2	436.3	1074.3	1570.5	2676.3	2676.3	1570.5	1074.3	436.3	65.2	11.1	2.2		
10	1.1	2.5	14.7	125.4	903.4	1635.8	2843.1	18205.3	18205.3	2843.1	1635.8	903.4	125.4	14.7	2.5	1.1	
0		2.5	15.5	155.1	1150.3	1937.8	3102.0	19309.4	19309.4	3102.0	1937.8	1150.3	155.1	15.5	2.5		
-10	1.0	2.4	12.4	122.0	993.4	2214.2	2632.7	3709.2	3709.2	2632.7	2214.2	993.4	122.0	12.4	2.4	1.0	
-20		1.8	8.3	63.9	503.4	1854.3	2702.4	2979.1	2979.1	2702.4	1854.3	503.4	63.9	8.3	1.8		
-30	0.9	1.2	6.0	23.8	163.7	670.0	1484.1	2006.5	2006.5	1484.1	670.0	163.7	23.8	6.0	1.2	0.9	
-40		0.9	3.1	8.4	33.7	136.7	315.4	452.9	452.9	315.4	136.7	33.7	8.4	3.1	0.9		
-50	0.7	0.7	1.5	3.5	6.8	16.0	36.6	54.4	54.4	36.6	16.0	6.8	3.5	1.5	0.7	0.7	
-60		0.5	0.9	1.5	2.5	3.7	4.8	5.3	5.3	4.8	3.7	2.5	1.5	0.9	0.5		
-70	0.4	0.4	1.6		2.5		3.5		3.8		3.5		2.5		1.6		0.4
-80		0.4	1.6		2.5		3.5		3.8		3.5		2.5		1.6		
-90	0.4	1.6		2.5		3.5		3.8		3.5		2.5		1.6		0.4	

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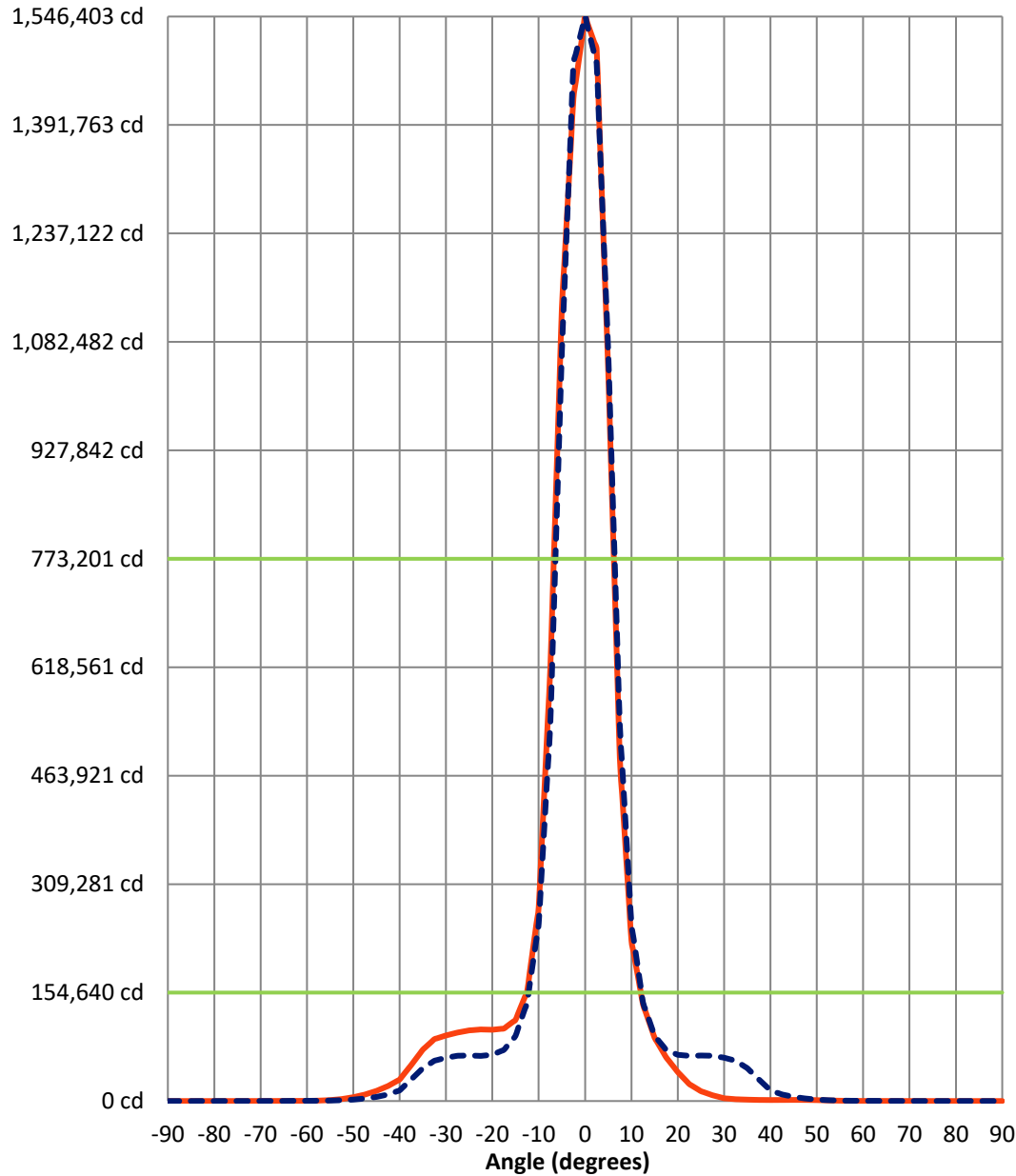
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 12.8°  
 V Angle: 13°  
 Lumens: 39806.4  
 Efficiency: 24.8%

**Field:**  
 H Angle: 24.4°  
 V Angle: 24.6°  
 Lumens: 79964.6  
 Efficiency: 49.8%

**Spill:**  
 Lumens: 80626.5  
 Efficiency: 50.2%

— 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	1.2	2.5	3.7	4.9	6.2	7.4	8.6	9.7	10.9	11.6
85°	0.0	2.5	5.0	7.4	9.9	12.3	14.7	17.1	19.5	21.8	23.2
82.5°	0.0	3.7	7.4	11.1	14.8	18.5	22.1	25.6	28.5	28.5	27.8
80°	0.0	4.9	9.9	14.8	19.7	24.6	28.5	28.5	28.5	28.5	28.2
77.5°	0.0	6.2	12.3	18.5	24.6	28.5	28.5	28.5	28.5	28.5	29.4
75°	0.0	7.4	14.7	22.1	28.5	28.5	28.5	28.5	28.8	31.1	33.0
72.5°	0.0	8.6	17.1	25.6	28.5	28.5	28.5	29.2	31.9	34.6	36.7
70°	0.0	9.7	19.5	28.5	28.5	28.5	28.8	31.9	35.0	38.0	37.7
67.5°	0.0	10.9	21.8	28.5	28.5	28.5	31.1	34.6	38.0	38.2	37.9
65°	0.0	12.0	24.1	28.5	28.5	29.4	33.4	37.2	38.6	38.6	39.1
62.5°	0.0	13.2	26.3	28.5	28.5	31.3	35.6	38.6	39.2	39.6	42.8
60°	0.0	14.2	28.5	28.5	28.5	33.1	37.8	39.4	40.0	42.6	46.4
57.5°	0.0	15.3	28.5	28.5	29.8	34.9	38.8	40.3	42.0	45.4	47.6
55°	0.0	16.3	28.5	28.5	31.2	36.6	39.8	41.3	44.2	47.6	47.9
52.5°	0.0	17.3	28.5	28.5	32.6	38.2	40.8	42.9	46.2	48.2	48.4
50°	0.0	18.3	28.5	28.5	33.9	39.1	41.8	44.4	47.7	48.9	51.2
47.5°	0.0	19.3	28.5	28.7	35.1	40.0	42.9	45.8	48.6	49.8	54.1
45°	0.0	20.1	28.5	29.6	36.3	41.0	44.0	47.0	49.5	52.0	56.7
42.5°	0.0	21.0	28.5	30.5	37.5	42.0	44.9	48.0	50.6	54.1	60.0
40°	0.0	21.8	28.5	31.3	38.4	43.0	45.7	49.0	51.9	55.9	63.6
37.5°	0.0	22.6	28.5	32.1	39.2	44.0	46.5	50.1	53.3	57.9	67.3
35°	0.0	23.3	28.5	32.8	39.9	44.7	47.1	51.1	54.6	61.1	71.9
32.5°	0.0	24.0	28.5	33.5	40.7	45.2	47.8	52.3	55.6	64.3	78.0
30°	0.0	24.7	28.5	34.2	41.4	45.7	48.6	53.4	56.5	67.4	83.9
27.5°	0.0	25.3	28.5	34.8	42.1	46.1	49.5	54.2	58.0	70.5	89.7
25°	0.0	25.8	28.5	35.3	42.8	46.4	50.4	54.8	60.4	74.7	95.4
22.5°	0.0	26.3	28.5	35.8	43.5	46.7	51.3	55.4	62.8	79.2	102.5
20°	0.0	26.8	28.5	36.3	44.1	46.9	52.1	55.9	65.0	83.4	109.1
17.5°	0.0	27.2	28.5	36.7	44.7	47.1	52.9	56.2	67.1	87.3	115.3
15°	0.0	27.5	28.5	37.0	45.2	47.3	53.7	56.5	69.0	91.0	121.1
12.5°	0.0	27.8	28.5	37.3	45.8	47.4	54.4	56.7	70.7	94.3	126.2
10°	0.0	28.1	28.5	37.6	46.2	47.4	55.1	56.9	72.3	97.2	130.8
7.5°	0.0	28.3	28.5	37.8	46.6	47.5	55.7	56.9	73.6	99.7	134.8
5°	0.0	28.4	28.5	37.9	47.0	47.5	56.2	57.0	74.7	101.8	138.0
2.5°	0.0	28.5	28.5	38.0	47.3	47.5	56.7	57.0	75.5	103.4	140.6
0°	0.0	28.5	28.5	38.0	47.5	47.5	57.0	57.0	76.0	104.5	142.5
-2.5°	0.0	28.5	28.5	38.0	47.3	47.5	56.9	57.3	76.2	104.7	143.1
-5°	0.0	28.4	28.5	37.9	47.0	47.5	56.8	57.6	76.2	104.3	142.9
-7.5°	0.0	28.3	28.5	37.8	46.6	47.5	56.5	57.9	75.8	103.5	141.8
-10°	0.0	28.1	28.5	37.6	46.2	47.4	56.1	58.2	75.1	102.1	139.9
-12.5°	0.0	27.8	28.5	37.3	45.8	47.4	55.6	58.4	74.2	100.3	137.2
-15°	0.0	27.5	28.5	37.0	45.2	47.3	55.0	58.5	72.9	97.9	133.5
-17.5°	0.0	27.2	28.5	36.7	44.7	47.1	54.3	58.5	71.3	95.0	128.9
-20°	0.0	26.8	28.5	36.3	44.1	46.9	53.5	58.5	69.5	91.7	123.4



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 CATALOG NUMBER: EPH-LS-16-1200R-40-80-1L-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	26.3	28.5	35.8	43.5	46.7	52.6	58.3	67.3	87.8	116.9
-25°	0.0	25.8	28.5	35.3	42.8	46.4	51.6	58.0	64.9	83.5	109.6
-27.5°	0.0	25.3	28.5	34.8	42.1	46.1	50.4	57.7	62.2	79.4	104.1
-30°	0.0	24.7	28.5	34.2	41.4	45.7	49.2	57.1	60.9	76.0	98.3
-32.5°	0.0	24.0	28.5	33.5	40.7	45.2	47.9	55.8	60.3	72.4	92.0
-35°	0.0	23.3	28.5	32.8	39.9	44.7	47.1	54.2	59.5	68.5	85.2
-37.5°	0.0	22.6	28.5	32.1	39.2	44.0	46.5	52.4	58.6	64.3	79.6
-40°	0.0	21.8	28.5	31.3	38.4	43.0	45.7	50.6	57.4	62.2	74.6
-42.5°	0.0	21.0	28.5	30.5	37.5	42.0	44.9	48.7	55.5	60.7	69.4
-45°	0.0	20.1	28.5	29.6	36.3	41.0	44.0	47.0	53.2	58.9	64.4
-47.5°	0.0	19.3	28.5	28.7	35.1	40.0	42.9	45.8	50.8	56.9	62.1
-50°	0.0	18.3	28.5	28.5	33.9	39.1	41.8	44.4	48.3	54.1	59.5
-52.5°	0.0	17.3	28.5	28.5	32.6	38.2	40.8	42.9	46.2	51.2	56.7
-55°	0.0	16.3	28.5	28.5	31.2	36.6	39.8	41.3	44.2	48.2	53.3
-57.5°	0.0	15.3	28.5	28.5	29.8	34.9	38.8	40.3	42.0	45.4	49.9
-60°	0.0	14.2	28.5	28.5	28.5	33.1	37.8	39.4	40.0	42.6	46.4
-62.5°	0.0	13.2	26.3	28.5	28.5	31.3	35.6	38.6	39.2	39.6	42.8
-65°	0.0	12.0	24.1	28.5	28.5	29.4	33.4	37.2	38.6	38.6	39.1
-67.5°	0.0	10.9	21.8	28.5	28.5	28.5	31.1	34.6	38.0	38.2	37.9
-70°	0.0	9.7	19.5	28.5	28.5	28.5	28.8	31.9	35.0	38.0	37.7
-72.5°	0.0	8.6	17.1	25.6	28.5	28.5	28.5	29.2	31.9	34.6	36.6
-75°	0.0	7.4	14.7	22.1	28.5	28.5	28.5	28.5	28.8	31.1	32.6
-77.5°	0.0	6.2	12.3	18.5	24.6	28.5	28.5	28.5	28.5	28.5	28.6
-80°	0.0	4.9	9.9	14.8	19.7	24.6	28.5	28.5	28.5	28.5	27.6
-82.5°	0.0	3.7	7.4	11.1	14.8	18.5	22.1	25.6	28.5	28.5	27.5
-85°	0.0	2.5	5.0	7.4	9.9	12.3	14.7	17.1	19.5	21.8	23.2
-87.5°	0.0	1.2	2.5	3.7	4.9	6.2	7.4	8.6	9.7	10.9	11.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	-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°	12.2	12.7	13.0	13.3	13.5	13.6	13.6	13.4	14.0	14.6	15.1
85°	24.4	25.3	24.6	24.0	23.6	23.2	23.0	23.0	23.0	22.9	22.7
82.5°	27.2	27.0	26.9	27.0	27.4	28.0	28.5	28.5	27.5	26.5	25.4
80°	28.2	28.5	29.3	29.8	29.9	29.8	29.4	28.7	27.6	27.1	27.1
77.5°	30.7	31.7	32.2	32.3	32.1	32.3	32.8	33.6	34.1	34.4	34.7
75°	34.3	35.0	34.9	35.1	35.8	36.8	38.0	38.1	37.6	37.3	37.3
72.5°	36.7	36.6	37.0	37.9	38.8	39.2	39.1	38.5	39.2	41.1	42.9
70°	37.4	37.8	39.4	40.6	41.1	41.4	42.4	44.0	46.0	48.2	50.3
67.5°	38.6	40.9	42.6	43.4	44.2	45.5	47.4	50.2	52.8	55.3	57.8
65°	42.2	44.5	45.1	45.9	47.3	50.4	53.5	56.6	59.5	62.8	66.6
62.5°	45.9	46.2	46.8	48.9	52.5	56.1	59.6	62.9	66.1	72.4	78.5
60°	47.0	47.1	49.7	53.8	57.8	61.7	65.5	71.9	78.9	85.6	89.3
57.5°	47.4	49.7	54.3	58.7	63.0	68.1	76.3	84.2	89.4	92.4	101.1
55°	48.9	53.8	58.7	63.5	69.8	78.9	87.5	93.7	98.2	121.7	141.0
52.5°	52.5	57.8	63.0	69.8	79.8	89.6	97.7	120.1	153.9	170.3	182.0
50°	56.1	61.7	68.1	78.9	90.2	100.6	138.8	186.6	206.6	216.3	221.9
47.5°	59.7	65.5	76.3	88.4	101.6	147.8	213.3	237.4	250.5	255.5	261.6
45°	63.5	72.0	84.2	99.9	141.1	227.2	262.2	278.9	283.4	300.0	344.0
42.5°	67.4	79.7	94.8	112.8	222.3	280.9	301.2	306.8	330.8	389.5	448.1
40°	74.1	87.6	106.3	192.8	293.3	317.1	326.7	347.0	422.8	506.5	578.4
37.5°	81.1	98.5	133.8	275.5	326.7	344.3	349.2	439.0	543.4	648.3	750.5
35°	88.1	109.3	203.5	324.8	359.5	363.9	433.6	548.7	690.9	830.4	953.4
32.5°	96.6	120.0	267.9	343.6	377.2	403.1	524.9	696.0	869.6	1035.4	1202.8
30°	105.8	171.1	314.3	360.4	385.0	488.3	654.9	856.8	1066.4	1293.5	1485.8
27.5°	114.8	221.1	328.3	370.3	407.9	567.2	800.7	1045.5	1308.7	1578.5	1813.4
25°	123.4	266.0	340.5	379.8	476.2	679.5	953.5	1240.3	1576.9	1913.4	2304.7
22.5°	145.9	305.3	350.9	390.8	542.6	805.9	1139.6	1512.0	1876.5	2288.0	2903.9
20°	179.3	313.9	359.6	411.1	606.6	932.4	1341.4	1847.4	2360.7	2902.8	4122.1
17.5°	208.3	321.0	368.5	462.9	702.8	1079.4	1569.3	2229.4	2951.9	3885.3	5922.2
15°	232.9	326.6	377.6	510.9	802.0	1250.6	1881.3	2722.3	3739.0	5213.3	8168.5
12.5°	253.3	330.8	386.6	554.4	895.2	1421.0	2208.7	3268.6	4686.8	7061.4	12680.8
10°	269.4	333.6	395.2	593.0	980.6	1586.3	2540.5	3839.6	5686.4	8911.6	17093.7
7.5°	281.4	335.1	403.1	625.8	1056.5	1741.2	2864.7	4413.5	6700.4	10711.3	21270.6
5°	289.5	335.3	409.7	652.4	1120.7	1880.6	3168.2	4966.8	7686.9	12401.8	25059.2
2.5°	293.8	334.4	414.9	672.0	1171.4	1998.8	3437.3	5474.2	8601.2	13920.1	28295.7
0°	294.5	332.5	418.0	684.1	1206.6	2090.2	3657.8	5909.6	9396.4	15201.4	30811.4
-2.5°	300.4	336.3	417.5	678.6	1199.4	2091.4	3691.3	6015.8	9708.5	15891.8	31856.1
-5°	302.4	339.5	415.0	665.2	1174.5	2058.6	3656.5	6012.1	9820.3	16211.7	31909.9
-7.5°	300.0	342.4	410.8	644.1	1131.6	1990.3	3548.3	5888.2	9700.3	16098.3	30883.7
-10°	292.8	345.2	405.3	615.7	1070.6	1885.1	3362.3	5634.8	9320.5	15496.4	28706.8
-12.5°	280.5	348.3	398.7	580.3	991.7	1742.2	3095.0	5244.4	8657.2	14360.9	25329.5
-15°	262.6	351.8	391.4	538.2	894.8	1561.1	2743.7	4711.5	7692.2	12657.7	20723.7
-17.5°	238.9	356.2	383.7	489.6	780.2	1341.3	2306.6	4066.7	6685.6	11132.9	18405.1
-20°	209.2	361.6	375.9	435.1	661.1	1145.1	1996.9	3530.0	5843.4	9534.4	15683.3



REPORT NUMBER: P699946 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-1L-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	173.1	368.2	373.2	414.8	594.1	985.4	1684.9	2896.1	4847.3	7765.9	12886.2
-25°	148.5	326.5	379.3	404.3	521.5	807.8	1331.2	2240.2	4047.7	6663.7	10679.8
-27.5°	139.5	276.0	387.4	394.8	443.8	643.4	1081.5	1884.8	3256.3	5368.3	8325.9
-30°	129.6	217.7	397.6	391.2	418.0	554.6	874.6	1453.4	2445.2	4239.9	6706.8
-32.5°	118.6	156.0	351.3	403.2	409.0	461.0	663.9	1137.7	1910.6	3060.7	5058.5
-35°	108.4	142.9	272.3	418.3	394.6	416.2	549.9	828.7	1372.5	2282.0	3612.8
-37.5°	100.4	128.8	184.4	377.9	397.2	392.9	428.2	624.3	990.8	1554.0	2529.4
-40°	92.0	113.5	148.1	269.6	397.1	376.1	395.9	468.4	676.2	1087.3	1656.3
-42.5°	83.4	103.6	130.2	164.3	314.8	372.5	359.8	397.0	490.1	697.1	1093.6
-45°	77.4	93.4	112.8	142.7	207.3	328.0	351.0	345.1	391.2	477.4	678.8
-47.5°	71.0	83.8	101.3	121.7	150.9	222.1	315.9	329.5	328.8	373.7	431.9
-50°	65.3	76.3	89.3	106.5	127.5	154.5	215.6	286.6	304.8	307.2	339.3
-52.5°	62.0	68.3	79.8	93.2	109.2	128.9	153.6	195.7	248.3	273.7	281.9
-55°	58.1	62.9	70.3	81.6	94.6	109.2	125.8	148.2	170.4	209.5	240.4
-57.5°	54.1	58.1	63.1	70.5	81.4	93.2	106.6	119.5	138.4	157.8	178.7
-60°	50.0	53.3	57.2	62.1	68.6	78.8	89.6	101.3	112.9	123.9	140.0
-62.5°	45.9	48.8	51.6	55.0	59.7	65.1	73.5	83.3	93.5	103.2	112.0
-65°	42.2	44.5	46.7	49.1	51.5	55.6	60.4	65.7	73.9	82.3	90.3
-67.5°	38.6	40.9	42.6	43.8	45.8	47.7	49.4	53.5	58.1	63.1	68.5
-70°	37.4	37.8	39.4	40.6	41.1	41.6	43.1	44.4	46.0	48.9	53.2
-72.5°	36.7	36.6	37.0	37.9	38.8	39.2	39.1	38.5	39.2	41.1	42.9
-75°	33.8	34.9	34.9	35.1	35.8	36.8	38.0	38.1	37.6	37.3	37.3
-77.5°	29.4	30.2	30.9	31.6	32.1	32.3	32.8	33.6	34.1	34.4	34.7
-80°	26.5	25.5	25.8	26.1	26.4	26.6	26.8	27.0	27.1	27.1	27.1
-82.5°	26.5	25.4	24.4	23.3	22.3	21.2	20.4	20.2	20.8	21.2	21.4
-85°	24.4	25.3	24.3	23.3	22.2	21.2	20.1	19.0	18.5	18.0	17.7
-87.5°	12.2	12.7	13.0	13.3	13.5	13.6	13.6	13.4	13.2	12.9	12.6
-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: P699946 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-1L-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°	15.6	16.0	16.5	16.9	17.2	17.6	15.9	14.1	12.2	10.3	8.3
85°	22.4	21.9	21.3	20.7	19.9	19.0	17.9	16.7	15.6	14.6	13.6
82.5°	24.4	23.3	22.3	21.2	20.1	19.1	18.8	18.7	18.7	18.7	18.8
80°	27.0	26.9	26.7	26.4	26.1	25.7	26.2	26.7	27.2	27.6	27.9
77.5°	34.4	34.0	33.9	33.9	34.1	34.4	35.1	35.8	36.4	36.9	37.3
75°	37.6	38.4	39.7	40.9	42.1	43.1	44.0	44.8	45.5	46.1	46.6
72.5°	44.7	46.3	47.9	49.3	50.6	51.8	52.9	53.8	54.7	55.4	56.0
70°	52.3	54.2	56.0	58.0	60.9	63.8	66.5	68.7	70.6	72.2	73.6
67.5°	60.9	64.4	68.1	72.1	75.5	78.2	80.1	81.3	82.4	83.4	84.1
65°	71.2	75.9	79.8	83.1	85.6	89.0	92.3	95.1	97.6	99.7	101.4
62.5°	83.7	87.8	91.7	96.0	100.5	106.6	112.7	117.4	121.5	125.0	127.8
60°	93.6	98.3	111.0	121.8	130.0	135.7	139.3	144.6	150.0	155.0	159.5
57.5°	119.6	134.9	147.1	156.2	162.5	166.1	169.4	179.2	191.8	204.5	217.1
55°	159.0	173.4	184.4	193.5	201.7	208.6	217.7	246.9	285.8	326.4	367.4
52.5°	199.6	212.8	224.6	240.1	271.8	301.9	330.0	377.2	449.5	523.5	597.2
50°	237.2	259.7	298.6	336.5	386.0	440.2	493.9	553.9	663.5	777.8	893.7
47.5°	300.0	344.3	400.9	463.3	531.4	611.3	690.6	765.7	877.2	1002.7	1127.3
45°	381.8	447.8	521.0	610.7	702.2	786.0	861.2	928.6	1009.0	1119.3	1225.2
42.5°	492.6	562.9	660.4	761.4	856.1	927.6	972.6	1010.4	1061.7	1161.4	1248.2
40°	643.4	685.8	801.0	898.6	958.7	1010.4	1049.9	1086.2	1126.1	1221.9	1297.0
37.5°	827.1	873.8	913.2	982.9	1034.2	1079.3	1159.8	1234.5	1283.2	1373.2	1455.1
35°	1055.5	1077.1	1006.8	1047.6	1132.6	1262.2	1413.8	1590.7	1629.5	1654.1	1773.6
32.5°	1306.8	1332.1	1251.1	1192.3	1356.9	1759.8	2031.5	2390.8	2390.6	2102.6	2309.6
30°	1617.1	1712.9	1872.8	1782.4	2107.1	2825.9	3502.2	4047.2	4065.5	3438.5	3657.5
27.5°	2090.8	2572.2	3130.8	4027.8	3777.1	4747.0	6363.9	7209.3	7759.1	6998.2	7450.8
25°	2903.9	3930.2	6497.2	7941.6	8211.8	8694.7	11195.0	12883.4	14615.0	15101.0	14657.0
22.5°	4393.3	7703.4	11124.9	13220.3	14744.7	16128.1	18278.6	21906.7	24040.0	24963.6	24858.5
20°	6880.6	12568.5	16875.6	19992.2	22584.9	25172.1	28592.7	31910.0	34315.2	35387.4	36396.6
17.5°	11605.2	18272.2	23435.2	27392.5	31065.0	35198.5	38661.3	41696.1	43580.3	46392.1	49492.0
15°	16921.5	24520.6	30399.0	35305.8	39965.5	44103.2	47185.1	49025.7	52971.7	57668.5	63291.9
12.5°	22427.5	30911.5	37371.7	43137.3	48403.3	51445.2	52973.5	55568.1	60753.8	68269.1	80665.2
10°	27970.8	36971.9	43560.2	49201.1	54267.6	57074.5	57623.0	60461.4	67770.6	81748.3	101809.2
7.5°	33387.6	42765.0	49015.0	54208.6	57832.4	59409.1	60959.7	65434.5	75939.7	95140.3	135997.7
5°	38479.8	48182.7	53801.8	58312.3	60657.4	61277.5	63036.0	69071.6	83743.5	113433.7	180807.4
2.5°	43030.2	53108.6	58013.2	61695.6	62935.4	62888.1	64674.6	71593.1	89732.0	131640.0	231019.3
0°	46810.9	57423.4	61765.3	64587.1	64910.1	64387.5	65983.7	73033.3	92975.7	140598.9	253008.7
-2.5°	48725.3	60153.5	64766.2	67495.1	67884.7	67397.3	68678.0	75228.5	93950.0	137581.0	239297.7
-5°	49481.6	62041.7	67462.2	70243.8	70877.8	70508.5	71317.5	76588.2	91948.9	124481.6	193472.3
-7.5°	48939.3	62990.6	69880.5	72908.6	73933.6	73760.0	74024.3	77274.1	87574.4	107890.8	150238.1
-10°	46986.4	62926.4	72050.6	75557.6	77088.3	77201.5	77269.6	78504.5	84012.1	97299.4	117524.7
-12.5°	43543.5	61801.6	74002.5	78230.5	80100.6	80942.7	81372.6	82266.1	84661.4	89212.2	101388.9
-15°	38668.5	58191.9	72286.3	79108.7	82253.5	84223.8	85529.7	86266.5	87579.5	89733.3	93566.7
-17.5°	32734.2	51289.7	68164.8	79421.6	83801.8	86614.6	88749.7	90530.4	91155.9	92279.5	94040.1
-20°	25797.9	43229.5	61526.9	75111.5	83555.7	88032.0	91064.3	92820.6	94108.0	95177.0	96990.8



REPORT NUMBER: P699946 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-1L-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	21052.1	34737.5	51669.1	68842.7	80235.2	87322.6	91390.8	93200.5	94970.3	96796.5	98765.0
-25°	16737.2	25842.0	41225.4	57301.6	72638.2	83060.2	88660.0	91891.7	94036.7	96299.8	98340.8
-27.5°	13189.2	20353.9	30242.2	45058.5	59911.0	73087.7	81375.1	88190.8	91087.4	93902.8	95561.3
-30°	9934.8	15104.7	22766.8	32528.5	45178.4	57019.6	68615.3	77394.9	84032.5	89192.7	91020.1
-32.5°	7726.3	11151.1	16229.6	23330.1	30640.2	40882.0	50869.7	60743.9	69796.2	76540.0	80752.7
-35°	5628.8	8318.0	11508.0	16054.9	21186.4	27350.1	33818.3	42262.9	49846.1	56911.8	62869.0
-37.5°	3879.6	5866.2	8335.6	10995.7	14706.9	18466.4	23023.9	27389.8	31044.9	37107.2	42180.4
-40°	2613.9	3788.0	5680.2	7696.9	10111.5	12507.4	15765.4	18725.3	21631.7	24451.1	26738.1
-42.5°	1653.3	2519.2	3534.4	5075.0	6763.7	8622.1	10673.4	12615.1	14740.0	16681.9	18301.6
-45°	989.1	1551.2	2212.8	3158.0	4130.4	5544.4	6974.3	8329.1	9795.8	11059.1	12146.4
-47.5°	625.7	855.9	1311.9	1848.0	2479.6	3339.6	4200.5	5108.8	6112.7	6968.4	7699.2
-50°	409.2	529.6	744.4	973.3	1385.4	1862.2	2335.2	2916.4	3501.0	4024.5	4480.5
-52.5°	299.3	362.2	439.8	549.8	750.6	958.1	1169.2	1512.5	1824.2	2098.7	2333.6
-55°	262.7	277.7	291.6	345.3	419.6	499.5	599.6	757.6	893.9	1014.3	1117.6
-57.5°	207.0	232.3	251.9	263.6	274.1	283.6	323.2	383.7	439.2	488.9	532.0
-60°	155.4	169.9	191.0	210.1	226.6	240.3	247.7	255.5	262.7	269.1	274.5
-62.5°	120.4	131.5	143.9	155.4	166.0	177.9	190.0	199.8	208.2	215.2	220.7
-65°	97.9	105.0	111.7	118.0	123.9	132.7	140.5	146.9	152.1	156.2	159.2
-67.5°	75.3	81.7	87.6	93.2	98.3	103.0	107.3	111.0	114.3	117.1	119.4
-70°	57.2	60.9	64.4	68.3	72.9	77.0	80.7	84.0	86.9	89.4	91.4
-72.5°	44.7	46.3	48.2	51.1	53.7	56.1	58.2	60.2	61.8	63.2	64.4
-75°	37.6	38.4	39.7	40.9	42.1	43.1	44.0	44.8	45.5	46.1	46.6
-77.5°	34.4	34.0	33.9	33.9	34.1	34.4	35.1	35.8	36.4	36.9	37.3
-80°	27.0	26.9	26.7	26.4	26.1	25.7	26.0	26.3	26.8	27.2	27.6
-82.5°	21.4	21.3	20.9	20.4	19.8	19.1	18.0	16.9	15.9	14.8	13.8
-85°	17.5	17.4	17.3	17.3	17.4	17.6	16.8	16.0	15.2	14.3	13.4
-87.5°	12.1	11.6	11.0	10.3	9.6	8.8	7.9	7.1	6.1	5.2	4.2
-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: P699946 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-1L-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°	6.3	4.2	2.1	0.0	2.1	4.2	6.3	8.3	10.3	12.2	14.1
85°	12.6	11.6	10.5	9.5	10.5	11.6	12.6	13.6	14.6	15.6	16.7
82.5°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.8	18.7	18.7	18.7
80°	28.2	28.4	28.5	28.5	28.5	28.4	28.2	27.9	27.6	27.2	26.7
77.5°	37.6	37.8	38.0	38.0	38.0	37.8	37.6	37.3	36.9	36.4	35.8
75°	47.0	47.3	47.4	47.5	47.4	47.3	47.0	46.6	46.1	45.5	44.8
72.5°	56.4	56.7	56.9	57.0	56.9	56.7	56.4	56.0	55.4	54.7	53.8
70°	74.6	75.4	75.8	76.0	75.8	75.4	74.6	73.6	72.2	70.6	68.7
67.5°	84.7	85.2	85.4	85.5	85.4	85.2	84.7	84.1	83.4	82.4	81.3
65°	102.8	103.7	104.3	104.5	104.3	103.7	102.8	101.4	99.7	97.6	95.1
62.5°	130.1	131.7	132.7	133.0	132.7	131.7	130.1	127.8	125.0	121.5	117.4
60°	163.5	166.8	169.3	171.0	169.3	166.8	163.5	159.5	155.0	150.0	144.6
57.5°	229.0	239.8	249.1	256.5	249.1	239.8	229.0	217.1	204.5	191.8	179.2
55°	407.1	444.1	476.8	503.5	476.8	444.1	407.1	367.4	326.4	285.8	246.9
52.5°	668.5	735.2	795.0	845.6	795.0	735.2	668.5	597.2	523.5	449.5	377.2
50°	1007.6	1116.1	1215.3	1301.6	1215.3	1116.1	1007.6	893.7	777.8	663.5	553.9
47.5°	1249.0	1366.0	1476.0	1577.1	1476.0	1366.0	1249.0	1127.3	1002.7	877.2	765.7
45°	1327.3	1425.9	1521.7	1615.2	1521.7	1425.9	1327.3	1225.2	1119.3	1009.0	928.6
42.5°	1325.1	1395.3	1462.3	1529.6	1462.3	1395.3	1325.1	1248.2	1161.4	1061.7	1010.4
40°	1353.6	1396.4	1431.0	1463.1	1431.0	1396.4	1353.6	1297.0	1221.9	1126.1	1086.2
37.5°	1513.7	1552.5	1575.4	1586.6	1575.4	1552.5	1513.7	1455.1	1373.2	1283.2	1234.5
35°	1867.8	1936.3	1978.7	1995.2	1978.7	1936.3	1867.8	1773.6	1654.1	1629.5	1590.7
32.5°	2457.9	2550.1	2590.5	2584.2	2590.5	2550.1	2457.9	2309.6	2102.6	2390.6	2390.8
30°	4071.5	4230.3	4176.7	3961.9	4176.7	4230.3	4071.5	3657.5	3438.5	4065.5	4047.2
27.5°	8692.9	9167.0	8981.5	8275.3	8981.5	9167.0	8692.9	7450.8	6998.2	7759.1	7209.3
25°	15999.2	16275.8	15557.2	14051.8	15557.2	16275.8	15999.2	14657.0	15101.0	14615.0	12883.4
22.5°	25722.0	26398.4	25841.0	24113.3	25841.0	26398.4	25722.0	24858.5	24963.6	24040.0	21906.7
20°	38307.9	40776.6	41917.3	41347.9	41917.3	40776.6	38307.9	36396.6	35387.4	34315.2	31910.0
17.5°	53301.4	57833.7	61161.2	62287.8	61161.2	57833.7	53301.4	49492.0	46392.1	43580.3	41696.1
15°	71206.3	79600.1	86740.9	90391.5	86740.9	79600.1	71206.3	63291.9	57668.5	52971.7	49025.7
12.5°	94285.2	111219.8	128643.0	137772.4	128643.0	111219.8	94285.2	80665.2	68269.1	60753.8	55568.1
10°	134671.9	175508.2	216569.1	229209.0	216569.1	175508.2	134671.9	101809.2	81748.3	67770.6	60461.4
7.5°	206820.3	315742.1	441609.1	488915.8	441609.1	315742.1	206820.3	135997.7	95140.3	75939.7	65434.5
5°	324627.7	573443.4	889175.9	#####	889175.9	573443.4	324627.7	180807.4	113433.7	83743.5	69071.6
2.5°	461381.5	903622.3	#####	#####	#####	903622.3	461381.5	231019.3	131640.0	89732.0	71593.1
0°	536610.3	#####	#####	#####	#####	#####	536610.3	253008.7	140598.9	92975.7	73033.3
-2.5°	485144.6	941405.0	#####	#####	#####	941405.0	485144.6	239297.7	137581.0	93950.0	75228.5
-5°	356170.5	644126.7	987209.1	#####	987209.1	644126.7	356170.5	193472.3	124481.6	91948.9	76588.2
-7.5°	228196.1	374345.4	541461.8	616569.7	541461.8	374345.4	228196.1	150238.1	107890.8	87574.4	77274.1
-10°	152846.6	205641.0	261678.2	276456.9	261678.2	205641.0	152846.6	117524.7	97299.4	84012.1	78504.5
-12.5°	114757.1	133201.6	149298.7	156208.9	149298.7	133201.6	114757.1	101388.9	89212.2	84661.4	82266.1
-15°	100910.7	108004.7	112802.6	115711.3	112802.6	108004.7	100910.7	93566.7	89733.3	87579.5	86266.5
-17.5°	97518.4	99607.5	101524.4	103388.7	101524.4	99607.5	97518.4	94040.1	92279.5	91155.9	90530.4
-20°	98697.6	99373.5	100407.6	101659.5	100407.6	99373.5	98697.6	96990.8	95177.0	94108.0	92820.6



REPORT NUMBER: P699946 (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°	99753.4	100383.6	101208.2	102068.1	101208.2	100383.6	99753.4	98765.0	96796.5	94970.3	93200.5
-25°	99055.9	99732.5	100322.7	100728.4	100322.7	99732.5	99055.9	98340.8	96299.8	94036.7	91891.7
-27.5°	96459.2	97141.3	97562.6	97678.7	97562.6	97141.3	96459.2	95561.3	93902.8	91087.4	88190.8
-30°	92267.0	93107.8	93536.6	93555.3	93536.6	93107.8	92267.0	91020.1	89192.7	84032.5	77394.9
-32.5°	84077.6	86462.1	87863.8	88253.8	87863.8	86462.1	84077.6	80752.7	76540.0	69796.2	60743.9
-35°	67512.4	70803.9	72721.4	73261.4	72721.4	70803.9	67512.4	62869.0	56911.8	49846.1	42262.9
-37.5°	46180.8	49065.7	50802.7	51371.3	50802.7	49065.7	46180.8	42180.4	37107.2	31044.9	27389.8
-40°	28498.1	29734.5	30456.3	30678.4	30456.3	29734.5	28498.1	26738.1	24451.1	21631.7	18725.3
-42.5°	19591.7	20547.8	21167.9	21453.0	21167.9	20547.8	19591.7	18301.6	16681.9	14740.0	12615.1
-45°	13045.3	13743.9	14231.5	14498.4	14231.5	13743.9	13045.3	12146.4	11059.1	9795.8	8329.1
-47.5°	8298.5	8760.7	9080.6	9253.9	9080.6	8760.7	8298.5	7699.2	6968.4	6112.7	5108.8
-50°	4862.4	5163.8	5378.6	5501.0	5378.6	5163.8	4862.4	4480.5	4024.5	3501.0	2916.4
-52.5°	2526.4	2675.1	2777.3	2831.3	2777.3	2675.1	2526.4	2333.6	2098.7	1824.2	1512.5
-55°	1202.7	1268.8	1314.7	1339.6	1314.7	1268.8	1202.7	1117.6	1014.3	893.9	757.6
-57.5°	568.0	596.3	616.2	627.1	616.2	596.3	568.0	532.0	488.9	439.2	383.7
-60°	279.0	282.3	284.3	285.0	284.3	282.3	279.0	274.5	269.1	262.7	255.5
-62.5°	224.8	227.4	228.4	228.0	228.4	227.4	224.8	220.7	215.2	208.2	199.8
-65°	161.2	162.2	162.3	161.5	162.3	162.2	161.2	159.2	156.2	152.1	146.9
-67.5°	121.2	122.5	123.2	123.5	123.2	122.5	121.2	119.4	117.1	114.3	111.0
-70°	93.0	94.1	94.8	95.0	94.8	94.1	93.0	91.4	89.4	86.9	84.0
-72.5°	65.3	66.0	66.4	66.5	66.4	66.0	65.3	64.4	63.2	61.8	60.2
-75°	47.0	47.3	47.4	47.5	47.4	47.3	47.0	46.6	46.1	45.5	44.8
-77.5°	37.6	37.8	38.0	38.0	38.0	37.8	37.6	37.3	36.9	36.4	35.8
-80°	28.0	28.2	28.4	28.5	28.4	28.2	28.0	27.6	27.2	26.8	26.3
-82.5°	12.7	11.6	10.6	9.5	10.6	11.6	12.7	13.8	14.8	15.9	16.9
-85°	12.5	11.5	10.5	9.5	10.5	11.5	12.5	13.4	14.3	15.2	16.0
-87.5°	3.1	2.1	1.1	0.0	1.1	2.1	3.1	4.2	5.2	6.1	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°	15.9	17.6	17.2	16.9	16.5	16.0	15.6	15.1	14.6	14.0	13.4
85°	17.9	19.0	19.9	20.7	21.3	21.9	22.4	22.7	22.9	23.0	23.0
82.5°	18.8	19.1	20.1	21.2	22.3	23.3	24.4	25.4	26.5	27.5	28.5
80°	26.2	25.7	26.1	26.4	26.7	26.9	27.0	27.1	27.1	27.6	28.7
77.5°	35.1	34.4	34.1	33.9	33.9	34.0	34.4	34.7	34.4	34.1	33.6
75°	44.0	43.1	42.1	40.9	39.7	38.4	37.6	37.3	37.3	37.6	38.1
72.5°	52.9	51.8	50.6	49.3	47.9	46.3	44.7	42.9	41.1	39.2	38.5
70°	66.5	63.8	60.9	58.0	56.0	54.2	52.3	50.3	48.2	46.0	44.0
67.5°	80.1	78.2	75.5	72.1	68.1	64.4	60.9	57.8	55.3	52.8	50.2
65°	92.3	89.0	85.6	83.1	79.8	75.9	71.2	66.6	62.8	59.5	56.6
62.5°	112.7	106.6	100.5	96.0	91.7	87.8	83.7	78.5	72.4	66.1	62.9
60°	139.3	135.7	130.0	121.8	111.0	98.3	93.6	89.3	85.6	78.9	71.9
57.5°	169.4	166.1	162.5	156.2	147.1	134.9	119.6	101.1	92.4	89.4	84.2
55°	217.7	208.6	201.7	193.5	184.4	173.4	159.0	141.0	121.7	98.2	93.7
52.5°	330.0	301.9	271.8	240.1	224.6	212.8	199.6	182.0	170.3	153.9	120.1
50°	493.9	440.2	386.0	336.5	298.6	259.7	237.2	221.9	216.3	206.6	186.6
47.5°	690.6	611.3	531.4	463.3	400.9	344.3	300.0	261.6	255.5	250.5	237.4
45°	861.2	786.0	702.2	610.7	521.0	447.8	381.8	344.0	300.0	283.4	278.9
42.5°	972.6	927.6	856.1	761.4	660.4	562.9	492.6	448.1	389.5	330.8	306.8
40°	1049.9	1010.4	958.7	898.6	801.0	685.8	643.4	578.4	506.5	422.8	347.0
37.5°	1159.8	1079.3	1034.2	982.9	913.2	873.8	827.1	750.5	648.3	543.4	439.0
35°	1413.8	1262.2	1132.6	1047.6	1006.8	1077.1	1055.5	953.4	830.4	690.9	548.7
32.5°	2031.5	1759.8	1356.9	1192.3	1251.1	1332.1	1306.8	1202.8	1035.4	869.6	696.0
30°	3502.2	2825.9	2107.1	1782.4	1872.8	1712.9	1617.1	1485.8	1293.5	1066.4	856.8
27.5°	6363.9	4747.0	3777.1	4027.8	3130.8	2572.2	2090.8	1813.4	1578.5	1308.7	1045.5
25°	11195.0	8694.7	8211.8	7941.6	6497.2	3930.2	2903.9	2304.7	1913.4	1576.9	1240.3
22.5°	18278.6	16128.1	14744.7	13220.3	11124.9	7703.4	4393.3	2903.9	2288.0	1876.5	1512.0
20°	28592.7	25172.1	22584.9	19992.2	16875.6	12568.5	6880.6	4122.1	2902.8	2360.7	1847.4
17.5°	38661.3	35198.5	31065.0	27392.5	23435.2	18272.2	11605.2	5922.2	3885.3	2951.9	2229.4
15°	47185.1	44103.2	39965.5	35305.8	30399.0	24520.6	16921.5	8168.5	5213.3	3739.0	2722.3
12.5°	52973.5	51445.2	48403.3	43137.3	37371.7	30911.5	22427.5	12680.8	7061.4	4686.8	3268.6
10°	57623.0	57074.5	54267.6	49201.1	43560.2	36971.9	27970.8	17093.7	8911.6	5686.4	3839.6
7.5°	60959.7	59409.1	57832.4	54208.6	49015.0	42765.0	33387.6	21270.6	10711.3	6700.4	4413.5
5°	63036.0	61277.5	60657.4	58312.3	53801.8	48182.7	38479.8	25059.2	12401.8	7686.9	4966.8
2.5°	64674.6	62888.1	62935.4	61695.6	58013.2	53108.6	43030.2	28295.7	13920.1	8601.2	5474.2
0°	65983.7	64387.5	64910.1	64587.1	61765.3	57423.4	46810.9	30811.4	15201.4	9396.4	5909.6
-2.5°	68678.0	67397.3	67884.7	67495.1	64766.2	60153.5	48725.3	31856.1	15891.8	9708.5	6015.8
-5°	71317.5	70508.5	70877.8	70243.8	67462.2	62041.7	49481.6	31909.9	16211.7	9820.3	6012.1
-7.5°	74024.3	73760.0	73933.6	72908.6	69880.5	62990.6	48939.3	30883.7	16098.3	9700.3	5888.2
-10°	77269.6	77201.5	77088.3	75557.6	72050.6	62926.4	46986.4	28706.8	15496.4	9320.5	5634.8
-12.5°	81372.6	80942.7	80100.6	78230.5	74002.5	61801.6	43543.5	25329.5	14360.9	8657.2	5244.4
-15°	85529.7	84223.8	82253.5	79108.7	72286.3	58191.9	38668.5	20723.7	12657.7	7692.2	4711.5
-17.5°	88749.7	86614.6	83801.8	79421.6	68164.8	51289.7	32734.2	18405.1	11132.9	6685.6	4066.7
-20°	91064.3	88032.0	83555.7	75111.5	61526.9	43229.5	25797.9	15683.3	9534.4	5843.4	3530.0



REPORT NUMBER: P699946 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-1L-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	91390.8	87322.6	80235.2	68842.7	51669.1	34737.5	21052.1	12886.2	7765.9	4847.3	2896.1
-25°	88660.0	83060.2	72638.2	57301.6	41225.4	25842.0	16737.2	10679.8	6663.7	4047.7	2240.2
-27.5°	81375.1	73087.7	59911.0	45058.5	30242.2	20353.9	13189.2	8325.9	5368.3	3256.3	1884.8
-30°	68615.3	57019.6	45178.4	32528.5	22766.8	15104.7	9934.8	6706.8	4239.9	2445.2	1453.4
-32.5°	50869.7	40882.0	30640.2	23330.1	16229.6	11151.1	7726.3	5058.5	3060.7	1910.6	1137.7
-35°	33818.3	27350.1	21186.4	16054.9	11508.0	8318.0	5628.8	3612.8	2282.0	1372.5	828.7
-37.5°	23023.9	18466.4	14706.9	10995.7	8335.6	5866.2	3879.6	2529.4	1554.0	990.8	624.3
-40°	15765.4	12507.4	10111.5	7696.9	5680.2	3788.0	2613.9	1656.3	1087.3	676.2	468.4
-42.5°	10673.4	8622.1	6763.7	5075.0	3534.4	2519.2	1653.3	1093.6	697.1	490.1	397.0
-45°	6974.3	5544.4	4130.4	3158.0	2212.8	1551.2	989.1	678.8	477.4	391.2	345.1
-47.5°	4200.5	3339.6	2479.6	1848.0	1311.9	855.9	625.7	431.9	373.7	328.8	329.5
-50°	2335.2	1862.2	1385.4	973.3	744.4	529.6	409.2	339.3	307.2	304.8	286.6
-52.5°	1169.2	958.1	750.6	549.8	439.8	362.2	299.3	281.9	273.7	248.3	195.7
-55°	599.6	499.5	419.6	345.3	291.6	277.7	262.7	240.4	209.5	170.4	148.2
-57.5°	323.2	283.6	274.1	263.6	251.9	232.3	207.0	178.7	157.8	138.4	119.5
-60°	247.7	240.3	226.6	210.1	191.0	169.9	155.4	140.0	123.9	112.9	101.3
-62.5°	190.0	177.9	166.0	155.4	143.9	131.5	120.4	112.0	103.2	93.5	83.3
-65°	140.5	132.7	123.9	118.0	111.7	105.0	97.9	90.3	82.3	73.9	65.7
-67.5°	107.3	103.0	98.3	93.2	87.6	81.7	75.3	68.5	63.1	58.1	53.5
-70°	80.7	77.0	72.9	68.3	64.4	60.9	57.2	53.2	48.9	46.0	44.4
-72.5°	58.2	56.1	53.7	51.1	48.2	46.3	44.7	42.9	41.1	39.2	38.5
-75°	44.0	43.1	42.1	40.9	39.7	38.4	37.6	37.3	37.3	37.6	38.1
-77.5°	35.1	34.4	34.1	33.9	33.9	34.0	34.4	34.7	34.4	34.1	33.6
-80°	26.0	25.7	26.1	26.4	26.7	26.9	27.0	27.1	27.1	27.1	27.0
-82.5°	18.0	19.1	19.8	20.4	20.9	21.3	21.4	21.4	21.2	20.8	20.2
-85°	16.8	17.6	17.4	17.3	17.3	17.4	17.5	17.7	18.0	18.5	19.0
-87.5°	7.9	8.8	9.6	10.3	11.0	11.6	12.1	12.6	12.9	13.2	13.4
-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: P699946 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-1L-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°	13.6	13.6	13.5	13.3	13.0	12.7	12.2	11.6	10.9	9.7	8.6
85°	23.0	23.2	23.6	24.0	24.6	25.3	24.4	23.2	21.8	19.5	17.1
82.5°	28.5	28.0	27.4	27.0	26.9	27.0	27.2	27.8	28.5	28.5	25.6
80°	29.4	29.8	29.9	29.8	29.3	28.5	28.2	28.2	28.5	28.5	28.5
77.5°	32.8	32.3	32.1	32.3	32.2	31.7	30.7	29.4	28.5	28.5	28.5
75°	38.0	36.8	35.8	35.1	34.9	35.0	34.3	33.0	31.1	28.8	28.5
72.5°	39.1	39.2	38.8	37.9	37.0	36.6	36.7	36.7	34.6	31.9	29.2
70°	42.4	41.4	41.1	40.6	39.4	37.8	37.4	37.7	38.0	35.0	31.9
67.5°	47.4	45.5	44.2	43.4	42.6	40.9	38.6	37.9	38.2	38.0	34.6
65°	53.5	50.4	47.3	45.9	45.1	44.5	42.2	39.1	38.6	38.6	37.2
62.5°	59.6	56.1	52.5	48.9	46.8	46.2	45.9	42.8	39.6	39.2	38.6
60°	65.5	61.7	57.8	53.8	49.7	47.1	47.0	46.4	42.6	40.0	39.4
57.5°	76.3	68.1	63.0	58.7	54.3	49.7	47.4	47.6	45.4	42.0	40.3
55°	87.5	78.9	69.8	63.5	58.7	53.8	48.9	47.9	47.6	44.2	41.3
52.5°	97.7	89.6	79.8	69.8	63.0	57.8	52.5	48.4	48.2	46.2	42.9
50°	138.8	100.6	90.2	78.9	68.1	61.7	56.1	51.2	48.9	47.7	44.4
47.5°	213.3	147.8	101.6	88.4	76.3	65.5	59.7	54.1	49.8	48.6	45.8
45°	262.2	227.2	141.1	99.9	84.2	72.0	63.5	56.7	52.0	49.5	47.0
42.5°	301.2	280.9	222.3	112.8	94.8	79.7	67.4	60.0	54.1	50.6	48.0
40°	326.7	317.1	293.3	192.8	106.3	87.6	74.1	63.6	55.9	51.9	49.0
37.5°	349.2	344.3	326.7	275.5	133.8	98.5	81.1	67.3	57.9	53.3	50.1
35°	433.6	363.9	359.5	324.8	203.5	109.3	88.1	71.9	61.1	54.6	51.1
32.5°	524.9	403.1	377.2	343.6	267.9	120.0	96.6	78.0	64.3	55.6	52.3
30°	654.9	488.3	385.0	360.4	314.3	171.1	105.8	83.9	67.4	56.5	53.4
27.5°	800.7	567.2	407.9	370.3	328.3	221.1	114.8	89.7	70.5	58.0	54.2
25°	953.5	679.5	476.2	379.8	340.5	266.0	123.4	95.4	74.7	60.4	54.8
22.5°	1139.6	805.9	542.6	390.8	350.9	305.3	145.9	102.5	79.2	62.8	55.4
20°	1341.4	932.4	606.6	411.1	359.6	313.9	179.3	109.1	83.4	65.0	55.9
17.5°	1569.3	1079.4	702.8	462.9	368.5	321.0	208.3	115.3	87.3	67.1	56.2
15°	1881.3	1250.6	802.0	510.9	377.6	326.6	232.9	121.1	91.0	69.0	56.5
12.5°	2208.7	1421.0	895.2	554.4	386.6	330.8	253.3	126.2	94.3	70.7	56.7
10°	2540.5	1586.3	980.6	593.0	395.2	333.6	269.4	130.8	97.2	72.3	56.9
7.5°	2864.7	1741.2	1056.5	625.8	403.1	335.1	281.4	134.8	99.7	73.6	56.9
5°	3168.2	1880.6	1120.7	652.4	409.7	335.3	289.5	138.0	101.8	74.7	57.0
2.5°	3437.3	1998.8	1171.4	672.0	414.9	334.4	293.8	140.6	103.4	75.5	57.0
0°	3657.8	2090.2	1206.6	684.1	418.0	332.5	294.5	142.5	104.5	76.0	57.0
-2.5°	3691.3	2091.4	1199.4	678.6	417.5	336.3	300.4	143.1	104.7	76.2	57.3
-5°	3656.5	2058.6	1174.5	665.2	415.0	339.5	302.4	142.9	104.3	76.2	57.6
-7.5°	3548.3	1990.3	1131.6	644.1	410.8	342.4	300.0	141.8	103.5	75.8	57.9
-10°	3362.3	1885.1	1070.6	615.7	405.3	345.2	292.8	139.9	102.1	75.1	58.2
-12.5°	3095.0	1742.2	991.7	580.3	398.7	348.3	280.5	137.2	100.3	74.2	58.4
-15°	2743.7	1561.1	894.8	538.2	391.4	351.8	262.6	133.5	97.9	72.9	58.5
-17.5°	2306.6	1341.3	780.2	489.6	383.7	356.2	238.9	128.9	95.0	71.3	58.5
-20°	1996.9	1145.1	661.1	435.1	375.9	361.6	209.2	123.4	91.7	69.5	58.5



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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°	1684.9	985.4	594.1	414.8	373.2	368.2	173.1	116.9	87.8	67.3	58.3
-25°	1331.2	807.8	521.5	404.3	379.3	326.5	148.5	109.6	83.5	64.9	58.0
-27.5°	1081.5	643.4	443.8	394.8	387.4	276.0	139.5	104.1	79.4	62.2	57.7
-30°	874.6	554.6	418.0	391.2	397.6	217.7	129.6	98.3	76.0	60.9	57.1
-32.5°	663.9	461.0	409.0	403.2	351.3	156.0	118.6	92.0	72.4	60.3	55.8
-35°	549.9	416.2	394.6	418.3	272.3	142.9	108.4	85.2	68.5	59.5	54.2
-37.5°	428.2	392.9	397.2	377.9	184.4	128.8	100.4	79.6	64.3	58.6	52.4
-40°	395.9	376.1	397.1	269.6	148.1	113.5	92.0	74.6	62.2	57.4	50.6
-42.5°	359.8	372.5	314.8	164.3	130.2	103.6	83.4	69.4	60.7	55.5	48.7
-45°	351.0	328.0	207.3	142.7	112.8	93.4	77.4	64.4	58.9	53.2	47.0
-47.5°	315.9	222.1	150.9	121.7	101.3	83.8	71.0	62.1	56.9	50.8	45.8
-50°	215.6	154.5	127.5	106.5	89.3	76.3	65.3	59.5	54.1	48.3	44.4
-52.5°	153.6	128.9	109.2	93.2	79.8	68.3	62.0	56.7	51.2	46.2	42.9
-55°	125.8	109.2	94.6	81.6	70.3	62.9	58.1	53.3	48.2	44.2	41.3
-57.5°	106.6	93.2	81.4	70.5	63.1	58.1	54.1	49.9	45.4	42.0	40.3
-60°	89.6	78.8	68.6	62.1	57.2	53.3	50.0	46.4	42.6	40.0	39.4
-62.5°	73.5	65.1	59.7	55.0	51.6	48.8	45.9	42.8	39.6	39.2	38.6
-65°	60.4	55.6	51.5	49.1	46.7	44.5	42.2	39.1	38.6	38.6	37.2
-67.5°	49.4	47.7	45.8	43.8	42.6	40.9	38.6	37.9	38.2	38.0	34.6
-70°	43.1	41.6	41.1	40.6	39.4	37.8	37.4	37.7	38.0	35.0	31.9
-72.5°	39.1	39.2	38.8	37.9	37.0	36.6	36.7	36.6	34.6	31.9	29.2
-75°	38.0	36.8	35.8	35.1	34.9	34.9	33.8	32.6	31.1	28.8	28.5
-77.5°	32.8	32.3	32.1	31.6	30.9	30.2	29.4	28.6	28.5	28.5	28.5
-80°	26.8	26.6	26.4	26.1	25.8	25.5	26.5	27.6	28.5	28.5	28.5
-82.5°	20.4	21.2	22.3	23.3	24.4	25.4	26.5	27.5	28.5	28.5	25.6
-85°	20.1	21.2	22.2	23.3	24.3	25.3	24.4	23.2	21.8	19.5	17.1
-87.5°	13.6	13.6	13.5	13.3	13.0	12.7	12.2	11.6	10.9	9.7	8.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	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°	7.4	6.2	4.9	3.7	2.5	1.2	0.0
85°	14.7	12.3	9.9	7.4	5.0	2.5	0.0
82.5°	22.1	18.5	14.8	11.1	7.4	3.7	0.0
80°	28.5	24.6	19.7	14.8	9.9	4.9	0.0
77.5°	28.5	28.5	24.6	18.5	12.3	6.2	0.0
75°	28.5	28.5	28.5	22.1	14.7	7.4	0.0
72.5°	28.5	28.5	28.5	25.6	17.1	8.6	0.0
70°	28.8	28.5	28.5	28.5	19.5	9.7	0.0
67.5°	31.1	28.5	28.5	28.5	21.8	10.9	0.0
65°	33.4	29.4	28.5	28.5	24.1	12.0	0.0
62.5°	35.6	31.3	28.5	28.5	26.3	13.2	0.0
60°	37.8	33.1	28.5	28.5	28.5	14.2	0.0
57.5°	38.8	34.9	29.8	28.5	28.5	15.3	0.0
55°	39.8	36.6	31.2	28.5	28.5	16.3	0.0
52.5°	40.8	38.2	32.6	28.5	28.5	17.3	0.0
50°	41.8	39.1	33.9	28.5	28.5	18.3	0.0
47.5°	42.9	40.0	35.1	28.7	28.5	19.3	0.0
45°	44.0	41.0	36.3	29.6	28.5	20.1	0.0
42.5°	44.9	42.0	37.5	30.5	28.5	21.0	0.0
40°	45.7	43.0	38.4	31.3	28.5	21.8	0.0
37.5°	46.5	44.0	39.2	32.1	28.5	22.6	0.0
35°	47.1	44.7	39.9	32.8	28.5	23.3	0.0
32.5°	47.8	45.2	40.7	33.5	28.5	24.0	0.0
30°	48.6	45.7	41.4	34.2	28.5	24.7	0.0
27.5°	49.5	46.1	42.1	34.8	28.5	25.3	0.0
25°	50.4	46.4	42.8	35.3	28.5	25.8	0.0
22.5°	51.3	46.7	43.5	35.8	28.5	26.3	0.0
20°	52.1	46.9	44.1	36.3	28.5	26.8	0.0
17.5°	52.9	47.1	44.7	36.7	28.5	27.2	0.0
15°	53.7	47.3	45.2	37.0	28.5	27.5	0.0
12.5°	54.4	47.4	45.8	37.3	28.5	27.8	0.0
10°	55.1	47.4	46.2	37.6	28.5	28.1	0.0
7.5°	55.7	47.5	46.6	37.8	28.5	28.3	0.0
5°	56.2	47.5	47.0	37.9	28.5	28.4	0.0
2.5°	56.7	47.5	47.3	38.0	28.5	28.5	0.0
0°	57.0	47.5	47.5	38.0	28.5	28.5	0.0
-2.5°	56.9	47.5	47.3	38.0	28.5	28.5	0.0
-5°	56.8	47.5	47.0	37.9	28.5	28.4	0.0
-7.5°	56.5	47.5	46.6	37.8	28.5	28.3	0.0
-10°	56.1	47.4	46.2	37.6	28.5	28.1	0.0
-12.5°	55.6	47.4	45.8	37.3	28.5	27.8	0.0
-15°	55.0	47.3	45.2	37.0	28.5	27.5	0.0
-17.5°	54.3	47.1	44.7	36.7	28.5	27.2	0.0
-20°	53.5	46.9	44.1	36.3	28.5	26.8	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	52.6	46.7	43.5	35.8	28.5	26.3	0.0
-25°	51.6	46.4	42.8	35.3	28.5	25.8	0.0
-27.5°	50.4	46.1	42.1	34.8	28.5	25.3	0.0
-30°	49.2	45.7	41.4	34.2	28.5	24.7	0.0
-32.5°	47.9	45.2	40.7	33.5	28.5	24.0	0.0
-35°	47.1	44.7	39.9	32.8	28.5	23.3	0.0
-37.5°	46.5	44.0	39.2	32.1	28.5	22.6	0.0
-40°	45.7	43.0	38.4	31.3	28.5	21.8	0.0
-42.5°	44.9	42.0	37.5	30.5	28.5	21.0	0.0
-45°	44.0	41.0	36.3	29.6	28.5	20.1	0.0
-47.5°	42.9	40.0	35.1	28.7	28.5	19.3	0.0
-50°	41.8	39.1	33.9	28.5	28.5	18.3	0.0
-52.5°	40.8	38.2	32.6	28.5	28.5	17.3	0.0
-55°	39.8	36.6	31.2	28.5	28.5	16.3	0.0
-57.5°	38.8	34.9	29.8	28.5	28.5	15.3	0.0
-60°	37.8	33.1	28.5	28.5	28.5	14.2	0.0
-62.5°	35.6	31.3	28.5	28.5	26.3	13.2	0.0
-65°	33.4	29.4	28.5	28.5	24.1	12.0	0.0
-67.5°	31.1	28.5	28.5	28.5	21.8	10.9	0.0
-70°	28.8	28.5	28.5	28.5	19.5	9.7	0.0
-72.5°	28.5	28.5	28.5	25.6	17.1	8.6	0.0
-75°	28.5	28.5	28.5	22.1	14.7	7.4	0.0
-77.5°	28.5	28.5	24.6	18.5	12.3	6.2	0.0
-80°	28.5	24.6	19.7	14.8	9.9	4.9	0.0
-82.5°	22.1	18.5	14.8	11.1	7.4	3.7	0.0
-85°	14.7	12.3	9.9	7.4	5.0	2.5	0.0
-87.5°	7.4	6.2	4.9	3.7	2.5	1.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)