

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

Brand: EPHESUS

Report Number: P1212088 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-40-80-1S-HEG**

Issue Date: 11/14/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1212088 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/14/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: EPHESUS  
Catalog Number: EPH-LS12-1000R-40-80-1S-HEG  
Description: EPHESUS LS12 LUMINAIRE  
(12) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

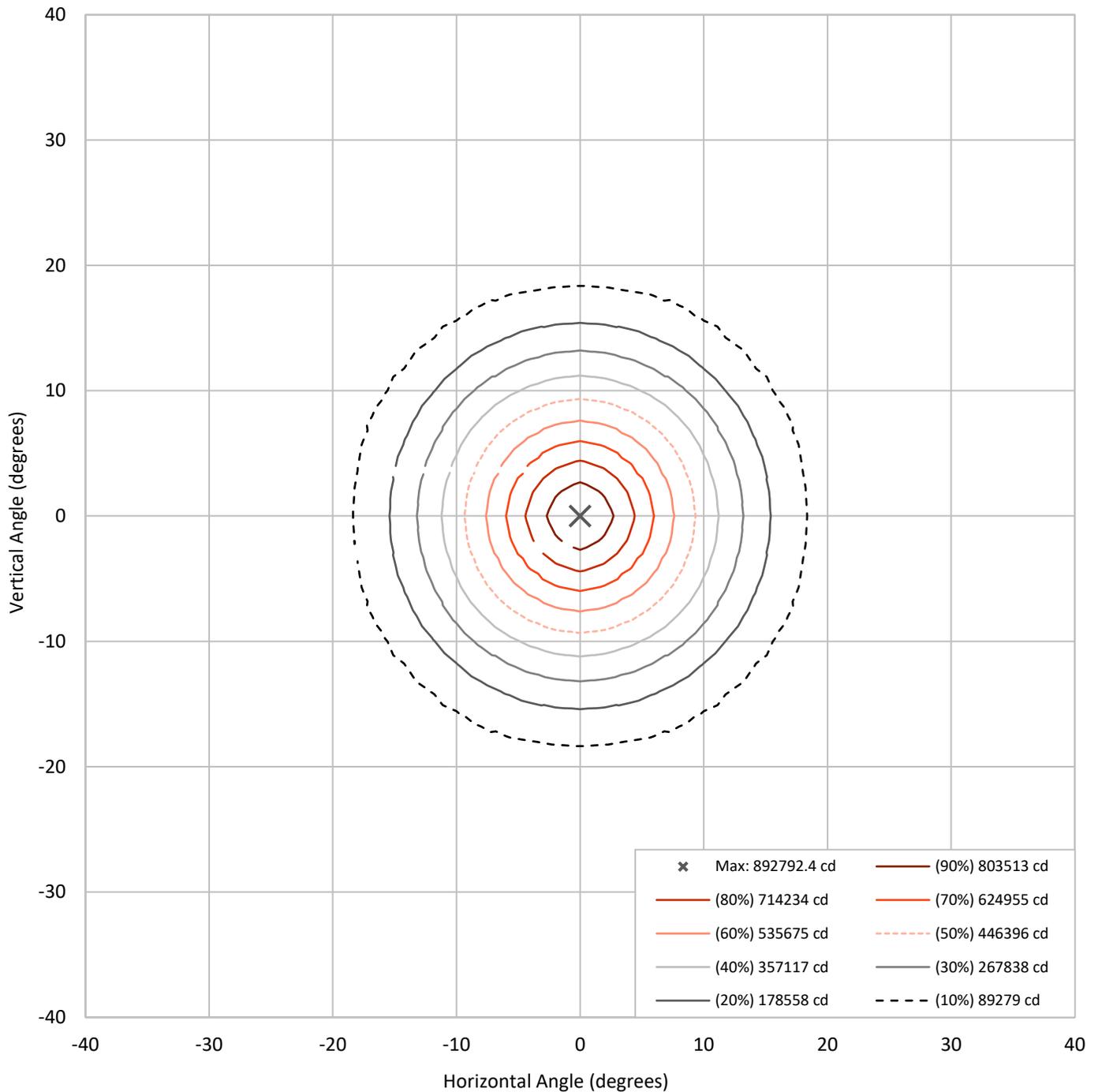
Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	140989.6 lumens	Max Intensity:	892792.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	128.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	18.7°H x 18.7°V	Field Angle (10%):	36.7°H x 36.7°V
Beam Lumens:	50387.8 lumens	Field Lumens:	104654.1 lumens
Beam Efficiency:	35.7%	Field Efficiency:	74.2%

Input Watts (W): 1101.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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





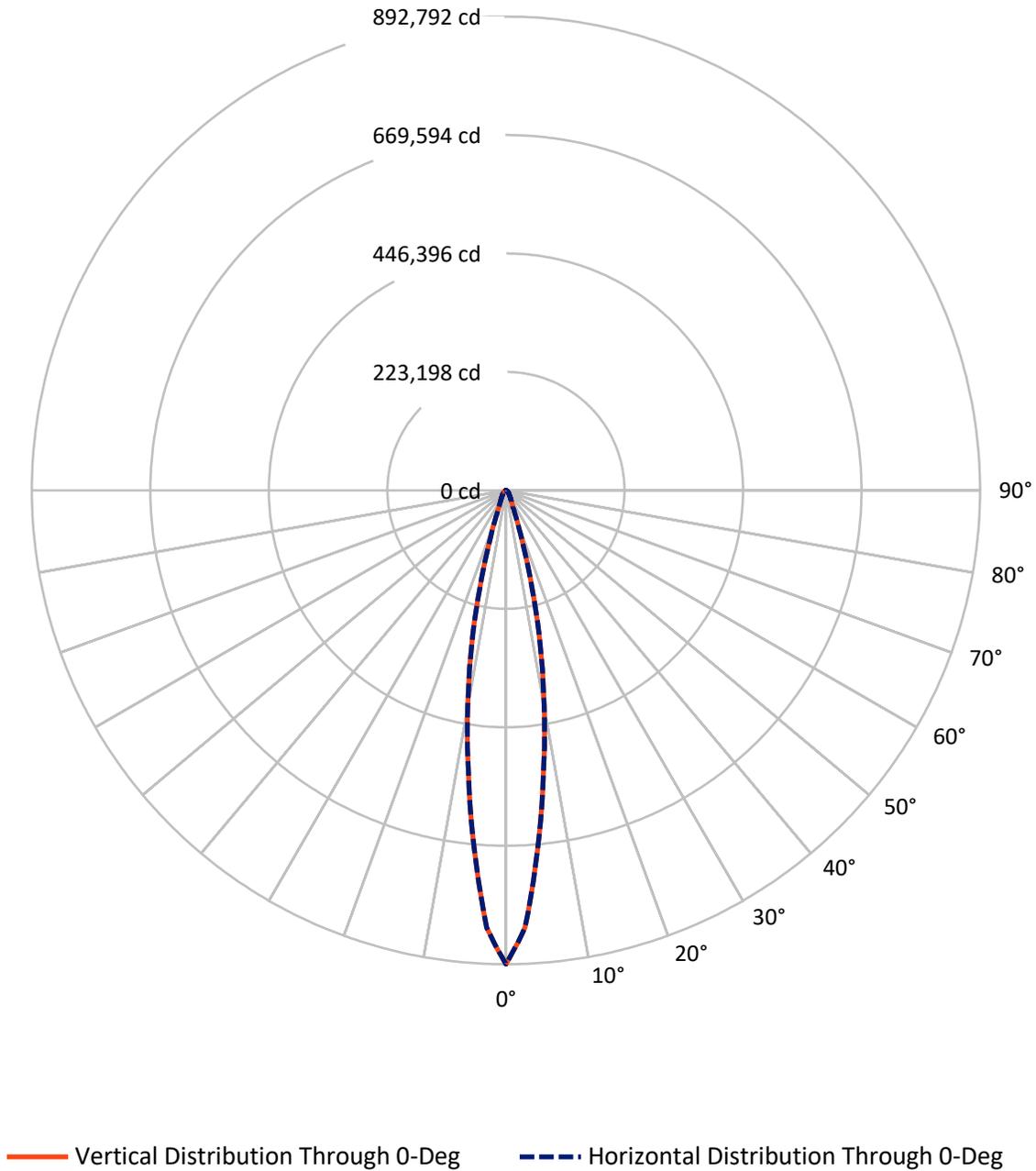
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### Lumen Table

90	0.3		1.4		5.3		12.8		16.7		12.8		5.3		1.4		0.3	
80	0.6		0.8	3.2	8.9	17.8	27.7	36.4	41.2	41.2	36.4	27.7	17.8	8.9	3.2	0.8	0.6	
70	0.6		2.4	10.3	26.0	48.0	75.1	99.1	112.6	112.6	99.1	75.1	48.0	26.0	10.3	2.4	0.6	
60	1.7		5.5	21.2	51.2	97.3	151.5	200.0	226.4	226.4	200.0	151.5	97.3	51.2	21.2	5.5	1.7	
50	1.7		9.5	34.0	84.3	160.8	239.3	313.9	371.8	371.8	313.9	239.3	160.8	84.3	34.0	9.5	1.7	
40	3.7		13.4	48.3	119.0	216.6	350.1	571.7	836.0	836.0	571.7	350.1	216.6	119.0	48.3	13.4	3.7	
30	3.7		16.4	59.8	147.5	267.2	537.9	1742.6	5195.3	5195.3	1742.6	537.9	267.2	147.5	59.8	16.4	3.7	
20	4.6		18.1	65.8	161.8	307.4	765.5	5065.9	16228.5	16228.5	5065.9	765.5	307.4	161.8	65.8	18.1	4.6	
10	4.6		18.1	65.8	161.8	307.4	765.5	5065.9	16228.5	16228.5	5065.9	765.5	307.4	161.8	65.8	18.1	4.6	
0	3.7		16.4	59.8	147.5	267.2	537.9	1742.6	5195.3	5195.3	1742.6	537.9	267.2	147.5	59.8	16.4	3.7	
-10	3.7		13.4	48.3	119.0	216.6	350.1	571.7	836.0	836.0	571.7	350.1	216.6	119.0	48.3	13.4	3.7	
-20	1.7		9.5	34.0	84.3	160.8	239.3	313.9	371.8	371.8	313.9	239.3	160.8	84.3	34.0	9.5	1.7	
-30	1.7		5.5	21.2	51.2	97.3	151.5	200.0	226.4	226.4	200.0	151.5	97.3	51.2	21.2	5.5	1.7	
-40	0.6		2.4	10.3	26.0	48.0	75.1	99.1	112.6	112.6	99.1	75.1	48.0	26.0	10.3	2.4	0.6	
-50	0.6		0.8	3.2	8.9	17.8	27.7	36.4	41.2	41.2	36.4	27.7	17.8	8.9	3.2	0.8	0.6	
-60	0.6		0.8	3.2	8.9	17.8	27.7	36.4	41.2	41.2	36.4	27.7	17.8	8.9	3.2	0.8	0.6	
-70	0.6		0.8	3.2	8.9	17.8	27.7	36.4	41.2	41.2	36.4	27.7	17.8	8.9	3.2	0.8	0.6	
-80	0.3		1.4		5.3		12.8		16.7		12.8		5.3		1.4		0.3	
-90	0.3		1.4		5.3		12.8		16.7		12.8		5.3		1.4		0.3	

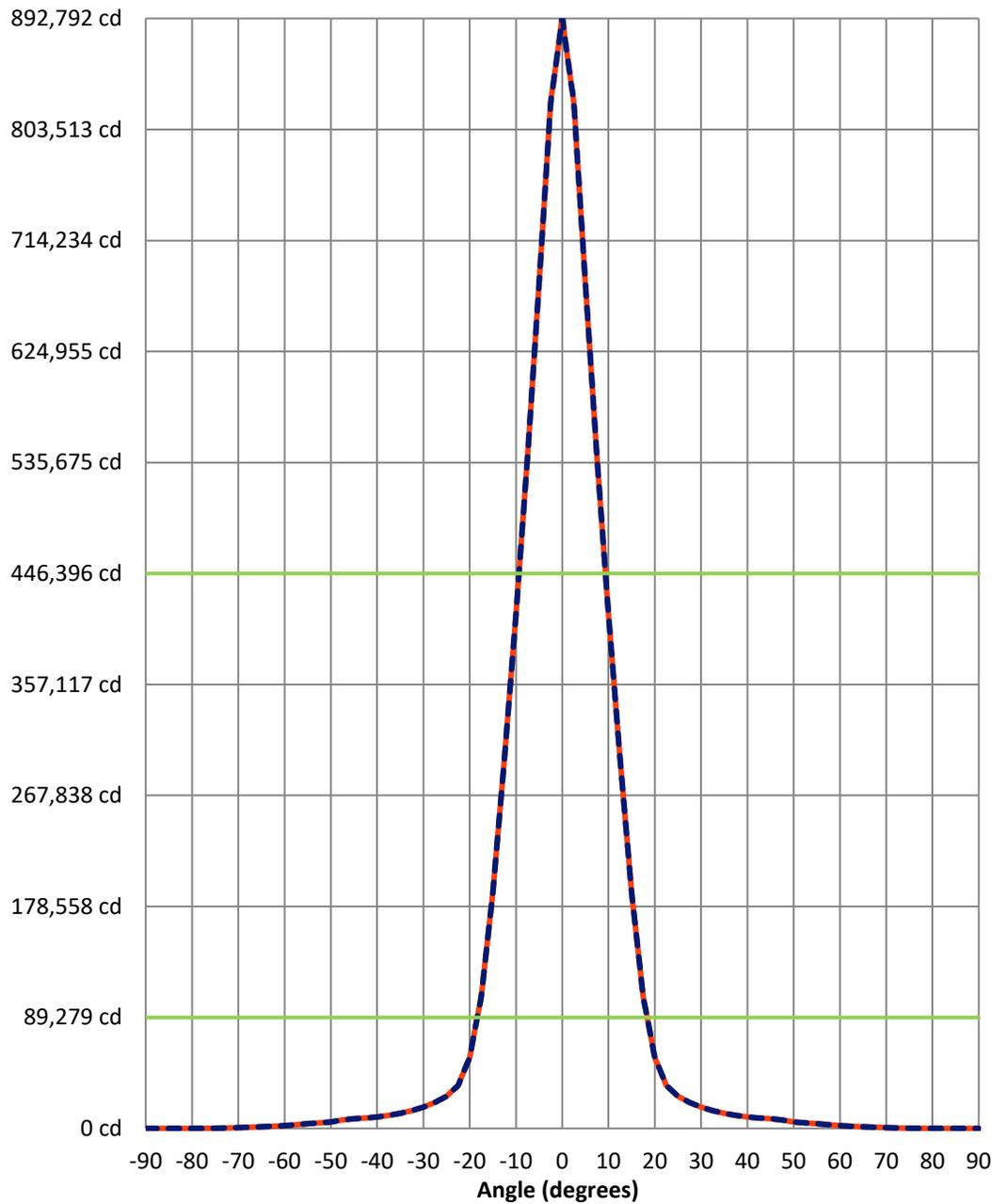
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 18.7°  
 V Angle: 18.7°  
 Lumens: 50387.8  
 Efficiency: 35.7%

**Field:**  
 H Angle: 36.7°  
 V Angle: 36.7°  
 Lumens: 104654.1  
 Efficiency: 74.2%

**Spill:**  
 Lumens: 36335.5  
 Efficiency: 25.8%

- 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	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.8	7.6
85°	0.0	1.6	3.1	4.7	6.2	7.7	9.3	10.8	12.2	13.7	15.1
82.5°	0.0	2.3	4.7	7.0	9.3	11.6	13.9	16.1	17.9	18.2	18.4
80°	0.0	3.1	6.2	9.3	12.4	15.4	18.0	18.3	18.6	18.9	19.2
77.5°	0.0	3.9	7.7	11.6	15.4	18.0	18.4	18.8	19.2	19.6	20.5
75°	0.0	4.6	9.3	13.9	18.0	18.4	18.9	19.4	20.0	21.9	23.6
72.5°	0.0	5.4	10.8	16.1	18.3	18.8	19.4	20.4	22.5	24.6	26.7
70°	0.0	6.1	12.2	17.9	18.6	19.2	20.0	22.5	25.0	27.5	33.7
67.5°	0.0	6.8	13.7	18.2	18.9	19.6	21.9	24.6	27.5	34.6	41.5
65°	0.0	7.6	15.1	18.4	19.2	20.5	23.6	26.7	33.7	41.5	51.8
62.5°	0.0	8.3	16.5	18.6	19.5	22.0	25.4	31.1	39.8	49.9	67.8
60°	0.0	8.9	17.9	18.8	19.8	23.4	27.1	36.3	45.8	64.1	83.4
57.5°	0.0	9.6	18.0	19.1	20.9	24.8	31.2	41.5	56.8	77.9	118.3
55°	0.0	10.3	18.2	19.3	21.9	26.2	35.5	46.5	68.7	97.0	161.5
52.5°	0.0	10.9	18.3	19.5	23.0	27.9	39.6	56.1	80.4	134.8	203.5
50°	0.0	11.5	18.4	19.7	24.0	31.2	43.7	66.0	98.0	171.6	264.2
47.5°	0.0	12.1	18.6	20.0	25.0	34.5	48.2	75.5	129.5	207.1	325.2
45°	0.0	12.7	18.7	20.7	26.0	37.6	56.0	84.7	159.9	259.5	384.0
42.5°	0.0	13.2	18.8	21.4	26.9	40.6	63.6	103.2	189.0	310.3	455.4
40°	0.0	13.7	18.9	22.0	28.4	43.4	70.8	127.5	221.8	358.9	526.1
37.5°	0.0	14.2	19.0	22.6	30.6	46.1	77.6	150.6	262.8	409.1	593.6
35°	0.0	14.7	19.1	23.2	32.6	50.5	84.1	172.5	301.6	466.4	668.1
32.5°	0.0	15.1	19.2	23.8	34.6	55.6	93.6	193.1	338.1	520.4	754.5
30°	0.0	15.5	19.3	24.3	36.4	60.3	110.0	214.9	372.3	570.9	835.4
27.5°	0.0	15.9	19.4	24.7	38.0	64.7	125.3	242.5	407.8	618.0	910.8
25°	0.0	16.2	19.4	25.2	39.6	68.7	139.4	268.0	446.0	673.5	980.6
22.5°	0.0	16.5	19.5	25.6	40.9	72.4	152.2	291.2	480.9	730.2	1050.0
20°	0.0	16.8	19.6	25.9	42.2	75.7	163.7	312.2	512.4	781.3	1112.7
17.5°	0.0	17.1	19.6	26.3	43.3	78.7	174.0	330.8	540.4	826.7	1168.5
15°	0.0	17.3	19.7	26.5	44.3	81.2	182.9	347.0	564.8	866.3	1217.2
12.5°	0.0	17.5	19.7	26.8	45.1	83.4	190.5	360.8	585.6	900.1	1258.6
10°	0.0	17.6	19.7	27.0	45.8	85.2	196.8	372.1	602.6	927.8	1292.7
7.5°	0.0	17.7	19.8	27.1	46.3	86.6	201.6	380.9	615.9	949.5	1319.3
5°	0.0	17.8	19.8	27.2	46.7	87.6	205.1	387.2	625.5	965.0	1338.4
2.5°	0.0	17.9	19.8	27.3	46.9	88.2	207.2	391.0	631.2	974.3	1349.9
0°	0.0	17.9	19.8	27.3	47.0	88.4	207.9	392.3	633.1	977.4	1353.7
-2.5°	0.0	17.9	19.8	27.3	46.9	88.2	207.2	391.0	631.2	974.3	1349.9
-5°	0.0	17.8	19.8	27.2	46.7	87.6	205.1	387.2	625.5	965.0	1338.4
-7.5°	0.0	17.7	19.8	27.1	46.3	86.6	201.6	380.9	615.9	949.5	1319.3
-10°	0.0	17.6	19.7	27.0	45.8	85.2	196.8	372.1	602.6	927.8	1292.7
-12.5°	0.0	17.5	19.7	26.8	45.1	83.4	190.5	360.8	585.6	900.1	1258.6
-15°	0.0	17.3	19.7	26.5	44.3	81.2	182.9	347.0	564.8	866.3	1217.2
-17.5°	0.0	17.1	19.6	26.3	43.3	78.7	174.0	330.8	540.4	826.7	1168.5
-20°	0.0	16.8	19.6	25.9	42.2	75.7	163.7	312.2	512.4	781.3	1112.7



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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	16.5	19.5	25.6	40.9	72.4	152.2	291.2	480.9	730.2	1050.0
-25°	0.0	16.2	19.4	25.2	39.6	68.7	139.4	268.0	446.0	673.5	980.6
-27.5°	0.0	15.9	19.4	24.7	38.0	64.7	125.3	242.5	407.8	618.0	910.8
-30°	0.0	15.5	19.3	24.3	36.4	60.3	110.0	214.9	372.3	570.9	835.4
-32.5°	0.0	15.1	19.2	23.8	34.6	55.6	93.6	193.1	338.1	520.4	754.5
-35°	0.0	14.7	19.1	23.2	32.6	50.5	84.1	172.5	301.6	466.4	668.1
-37.5°	0.0	14.2	19.0	22.6	30.6	46.1	77.6	150.6	262.8	409.1	593.6
-40°	0.0	13.7	18.9	22.0	28.4	43.4	70.8	127.5	221.8	358.9	526.1
-42.5°	0.0	13.2	18.8	21.4	26.9	40.6	63.6	103.2	189.0	310.3	455.4
-45°	0.0	12.7	18.7	20.7	26.0	37.6	56.0	84.7	159.9	259.5	384.0
-47.5°	0.0	12.1	18.6	20.0	25.0	34.5	48.2	75.5	129.5	207.1	325.2
-50°	0.0	11.5	18.4	19.7	24.0	31.2	43.7	66.0	98.0	171.6	264.2
-52.5°	0.0	10.9	18.3	19.5	23.0	27.9	39.6	56.1	80.4	134.8	203.5
-55°	0.0	10.3	18.2	19.3	21.9	26.2	35.5	46.5	68.7	97.0	161.5
-57.5°	0.0	9.6	18.0	19.1	20.9	24.8	31.2	41.5	56.8	77.9	118.3
-60°	0.0	8.9	17.9	18.8	19.8	23.4	27.1	36.3	45.8	64.1	83.4
-62.5°	0.0	8.3	16.5	18.6	19.5	22.0	25.4	31.1	39.8	49.9	67.8
-65°	0.0	7.6	15.1	18.4	19.2	20.5	23.6	26.7	33.7	41.5	51.8
-67.5°	0.0	6.8	13.7	18.2	18.9	19.6	21.9	24.6	27.5	34.6	41.5
-70°	0.0	6.1	12.2	17.9	18.6	19.2	20.0	22.5	25.0	27.5	33.7
-72.5°	0.0	5.4	10.8	16.1	18.3	18.8	19.4	20.4	22.5	24.6	26.7
-75°	0.0	4.6	9.3	13.9	18.0	18.4	18.9	19.4	20.0	21.9	23.6
-77.5°	0.0	3.9	7.7	11.6	15.4	18.0	18.4	18.8	19.2	19.6	20.5
-80°	0.0	3.1	6.2	9.3	12.4	15.4	18.0	18.3	18.6	18.9	19.2
-82.5°	0.0	2.3	4.7	7.0	9.3	11.6	13.9	16.1	17.9	18.2	18.4
-85°	0.0	1.6	3.1	4.7	6.2	7.7	9.3	10.8	12.2	13.7	15.1
-87.5°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.8	7.6
-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°	8.3	8.9	9.6	10.3	10.9	11.5	12.1	12.7	13.2	13.7	14.2
85°	16.5	17.9	18.0	18.2	18.3	18.4	18.6	18.7	18.8	18.9	19.0
82.5°	18.6	18.8	19.1	19.3	19.5	19.7	20.0	20.7	21.4	22.0	22.6
80°	19.5	19.8	20.9	21.9	23.0	24.0	25.0	26.0	26.9	28.4	30.6
77.5°	22.0	23.4	24.8	26.2	27.9	31.2	34.5	37.6	40.6	43.4	46.1
75°	25.4	27.1	31.2	35.5	39.6	43.7	48.2	56.0	63.6	70.8	77.6
72.5°	31.1	36.3	41.5	46.5	56.1	66.0	75.5	84.7	103.2	127.5	150.6
70°	39.8	45.8	56.8	68.7	80.4	98.0	129.5	159.9	189.0	221.8	262.8
67.5°	49.9	64.1	77.9	97.0	134.8	171.6	207.1	259.5	310.3	358.9	409.1
65°	67.8	83.4	118.3	161.5	203.5	264.2	325.2	384.0	455.4	526.1	593.6
62.5°	85.3	129.0	177.5	234.3	305.7	375.0	457.5	542.3	623.8	731.6	838.2
60°	129.0	182.9	251.0	330.8	413.6	512.4	608.3	730.2	857.8	980.6	1108.4
57.5°	177.5	251.0	339.2	435.6	545.6	661.2	810.0	953.9	1103.4	1249.1	1389.9
55°	234.3	330.8	435.6	556.8	693.2	858.2	1022.4	1192.3	1356.3	1520.7	1678.1
52.5°	305.7	413.6	545.6	693.2	874.4	1058.0	1246.1	1431.6	1615.4	1807.1	2030.3
50°	375.0	512.4	661.2	858.2	1058.0	1264.1	1469.5	1672.8	1908.5	2158.0	2461.4
47.5°	457.5	608.3	810.0	1022.4	1246.1	1469.5	1692.0	1959.6	2235.5	2614.4	2990.6
45°	542.3	730.2	953.9	1192.3	1431.6	1672.8	1959.6	2261.4	2691.5	3117.2	3560.4
42.5°	623.8	857.8	1103.4	1356.3	1615.4	1908.5	2235.5	2691.5	3160.6	3648.4	4054.1
40°	731.6	980.6	1249.1	1520.7	1807.1	2158.0	2614.4	3117.2	3648.4	4088.0	4464.8
37.5°	838.2	1108.4	1389.9	1678.1	2030.3	2461.4	2990.6	3560.4	4054.1	4464.8	4938.5
35°	939.5	1230.0	1528.2	1854.0	2243.2	2797.5	3385.7	3953.0	4395.8	4896.2	5579.2
32.5°	1040.5	1344.9	1659.0	2040.9	2531.3	3127.4	3764.7	4259.0	4770.0	5396.3	6516.9
30°	1138.6	1457.1	1793.5	2216.9	2811.0	3460.7	4056.9	4562.2	5142.0	6237.1	7206.6
27.5°	1230.0	1562.0	1944.5	2437.4	3078.6	3773.4	4311.0	4889.6	5777.2	6962.6	7751.6
25°	1314.4	1659.0	2084.3	2661.1	3347.0	4012.2	4560.5	5195.1	6472.2	7441.1	8074.2
22.5°	1393.2	1748.4	2212.3	2866.4	3593.6	4213.9	4822.0	5743.7	7016.1	7875.1	8324.6
20°	1465.9	1854.0	2359.6	3056.0	3817.4	4397.2	5060.0	6288.5	7393.4	8088.8	8637.8
17.5°	1530.7	1948.1	2511.3	3239.4	3977.1	4576.8	5312.2	6777.8	7733.1	8281.6	8960.0
15°	1587.2	2030.3	2644.0	3400.0	4109.3	4749.4	5709.3	7075.8	7952.7	8478.8	9250.3
12.5°	1635.3	2100.3	2757.2	3537.1	4222.4	4897.2	6049.5	7313.1	8088.0	8706.1	9632.0
10°	1675.0	2158.0	2850.5	3650.2	4315.7	5019.2	6330.9	7509.5	8200.2	8895.0	9949.9
7.5°	1705.9	2203.1	2923.4	3738.6	4388.7	5114.8	6551.6	7663.8	8288.4	9043.8	10200.8
5°	1728.1	2235.5	2975.7	3802.1	4441.2	5183.5	6710.3	7774.9	8352.0	9151.1	10382.0
2.5°	1741.4	2254.9	3007.2	3840.3	4472.8	5224.9	6805.9	7841.8	8390.4	9215.9	10491.5
0°	1745.9	2261.4	3017.7	3853.1	4483.3	5238.7	6837.9	7864.2	8403.2	9237.6	10528.2
-2.5°	1741.4	2254.9	3007.2	3840.3	4472.8	5224.9	6805.9	7841.8	8390.4	9215.9	10491.5
-5°	1728.1	2235.5	2975.7	3802.1	4441.2	5183.5	6710.3	7774.9	8352.0	9151.1	10382.0
-7.5°	1705.9	2203.1	2923.4	3738.6	4388.7	5114.8	6551.6	7663.8	8288.4	9043.8	10200.8
-10°	1675.0	2158.0	2850.5	3650.2	4315.7	5019.2	6330.9	7509.5	8200.2	8895.0	9949.9
-12.5°	1635.3	2100.3	2757.2	3537.1	4222.4	4897.2	6049.5	7313.1	8088.0	8706.1	9632.0
-15°	1587.2	2030.3	2644.0	3400.0	4109.3	4749.4	5709.3	7075.8	7952.7	8478.8	9250.3
-17.5°	1530.7	1948.1	2511.3	3239.4	3977.1	4576.8	5312.2	6777.8	7733.1	8281.6	8960.0
-20°	1465.9	1854.0	2359.6	3056.0	3817.4	4397.2	5060.0	6288.5	7393.4	8088.8	8637.8



REPORT NUMBER: P1212088 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-80-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1393.2	1748.4	2212.3	2866.4	3593.6	4213.9	4822.0	5743.7	7016.1	7875.1	8324.6
-25°	1314.4	1659.0	2084.3	2661.1	3347.0	4012.2	4560.5	5195.1	6472.2	7441.1	8074.2
-27.5°	1230.0	1562.0	1944.5	2437.4	3078.6	3773.4	4311.0	4889.6	5777.2	6962.6	7751.6
-30°	1138.6	1457.1	1793.5	2216.9	2811.0	3460.7	4056.9	4562.2	5142.0	6237.1	7206.6
-32.5°	1040.5	1344.9	1659.0	2040.9	2531.3	3127.4	3764.7	4259.0	4770.0	5396.3	6516.9
-35°	939.5	1230.0	1528.2	1854.0	2243.2	2797.5	3385.7	3953.0	4395.8	4896.2	5579.2
-37.5°	838.2	1108.4	1389.9	1678.1	2030.3	2461.4	2990.6	3560.4	4054.1	4464.8	4938.5
-40°	731.6	980.6	1249.1	1520.7	1807.1	2158.0	2614.4	3117.2	3648.4	4088.0	4464.8
-42.5°	623.8	857.8	1103.4	1356.3	1615.4	1908.5	2235.5	2691.5	3160.6	3648.4	4054.1
-45°	542.3	730.2	953.9	1192.3	1431.6	1672.8	1959.6	2261.4	2691.5	3117.2	3560.4
-47.5°	457.5	608.3	810.0	1022.4	1246.1	1469.5	1692.0	1959.6	2235.5	2614.4	2990.6
-50°	375.0	512.4	661.2	858.2	1058.0	1264.1	1469.5	1672.8	1908.5	2158.0	2461.4
-52.5°	305.7	413.6	545.6	693.2	874.4	1058.0	1246.1	1431.6	1615.4	1807.1	2030.3
-55°	234.3	330.8	435.6	556.8	693.2	858.2	1022.4	1192.3	1356.3	1520.7	1678.1
-57.5°	177.5	251.0	339.2	435.6	545.6	661.2	810.0	953.9	1103.4	1249.1	1389.9
-60°	129.0	182.9	251.0	330.8	413.6	512.4	608.3	730.2	857.8	980.6	1108.4
-62.5°	85.3	129.0	177.5	234.3	305.7	375.0	457.5	542.3	623.8	731.6	838.2
-65°	67.8	83.4	118.3	161.5	203.5	264.2	325.2	384.0	455.4	526.1	593.6
-67.5°	49.9	64.1	77.9	97.0	134.8	171.6	207.1	259.5	310.3	358.9	409.1
-70°	39.8	45.8	56.8	68.7	80.4	98.0	129.5	159.9	189.0	221.8	262.8
-72.5°	31.1	36.3	41.5	46.5	56.1	66.0	75.5	84.7	103.2	127.5	150.6
-75°	25.4	27.1	31.2	35.5	39.6	43.7	48.2	56.0	63.6	70.8	77.6
-77.5°	22.0	23.4	24.8	26.2	27.9	31.2	34.5	37.6	40.6	43.4	46.1
-80°	19.5	19.8	20.9	21.9	23.0	24.0	25.0	26.0	26.9	28.4	30.6
-82.5°	18.6	18.8	19.1	19.3	19.5	19.7	20.0	20.7	21.4	22.0	22.6
-85°	16.5	17.9	18.0	18.2	18.3	18.4	18.6	18.7	18.8	18.9	19.0
-87.5°	8.3	8.9	9.6	10.3	10.9	11.5	12.1	12.7	13.2	13.7	14.2
-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: P1212088 (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°	14.7	15.1	15.5	15.9	16.2	16.5	16.8	17.1	17.3	17.5	17.6
85°	19.1	19.2	19.3	19.4	19.4	19.5	19.6	19.6	19.7	19.7	19.7
82.5°	23.2	23.8	24.3	24.7	25.2	25.6	25.9	26.3	26.5	26.8	27.0
80°	32.6	34.6	36.4	38.0	39.6	40.9	42.2	43.3	44.3	45.1	45.8
77.5°	50.5	55.6	60.3	64.7	68.7	72.4	75.7	78.7	81.2	83.4	85.2
75°	84.1	93.6	110.0	125.3	139.4	152.2	163.7	174.0	182.9	190.5	196.8
72.5°	172.5	193.1	214.9	242.5	268.0	291.2	312.2	330.8	347.0	360.8	372.1
70°	301.6	338.1	372.3	407.8	446.0	480.9	512.4	540.4	564.8	585.6	602.6
67.5°	466.4	520.4	570.9	618.0	673.5	730.2	781.3	826.7	866.3	900.1	927.8
65°	668.1	754.5	835.4	910.8	980.6	1050.0	1112.7	1168.5	1217.2	1258.6	1292.7
62.5°	939.5	1040.5	1138.6	1230.0	1314.4	1393.2	1465.9	1530.7	1587.2	1635.3	1675.0
60°	1230.0	1344.9	1457.1	1562.0	1659.0	1748.4	1854.0	1948.1	2030.3	2100.3	2158.0
57.5°	1528.2	1659.0	1793.5	1944.5	2084.3	2212.3	2359.6	2511.3	2644.0	2757.2	2850.5
55°	1854.0	2040.9	2216.9	2437.4	2661.1	2866.4	3056.0	3239.4	3400.0	3537.1	3650.2
52.5°	2243.2	2531.3	2811.0	3078.6	3347.0	3593.6	3817.4	3977.1	4109.3	4222.4	4315.7
50°	2797.5	3127.4	3460.7	3773.4	4012.2	4213.9	4397.2	4576.8	4749.4	4897.2	5019.2
47.5°	3385.7	3764.7	4056.9	4311.0	4560.5	4822.0	5060.0	5312.2	5709.3	6049.5	6330.9
45°	3953.0	4259.0	4562.2	4889.6	5195.1	5743.7	6288.5	6777.8	7075.8	7313.1	7509.5
42.5°	4395.8	4770.0	5142.0	5777.2	6472.2	7016.1	7393.4	7733.1	7952.7	8088.0	8200.2
40°	4896.2	5396.3	6237.1	6962.6	7441.1	7875.1	8088.8	8281.6	8478.8	8706.1	8895.0
37.5°	5579.2	6516.9	7206.6	7751.6	8074.2	8324.6	8637.8	8960.0	9250.3	9632.0	9949.9
35°	6610.9	7330.0	7904.4	8209.6	8548.9	8964.8	9408.8	9947.0	10425.8	10933.3	11382.5
32.5°	7330.0	7937.8	8278.1	8712.2	9187.9	9850.2	10488.2	11230.3	11903.4	12570.1	13200.2
30°	7904.4	8278.1	8767.1	9335.8	10120.4	10956.8	11846.8	12792.0	13730.7	14609.5	15509.9
27.5°	8209.6	8712.2	9335.8	10211.4	11201.1	12231.9	13461.7	14665.1	15997.0	17165.3	18497.8
25°	8548.9	9187.9	10120.4	11201.1	12396.1	13803.1	15359.8	16956.4	18837.8	20564.6	22345.9
22.5°	8964.8	9850.2	10956.8	12231.9	13803.1	15594.6	17544.7	19876.3	22310.8	24765.4	27603.7
20°	9408.8	10488.2	11846.8	13461.7	15359.8	17544.7	20228.4	23271.9	26561.3	31338.9	36744.2
17.5°	9947.0	11230.3	12792.0	14665.1	16956.4	19876.3	23271.9	27474.5	33275.4	44661.8	56519.0
15°	10425.8	11903.4	13730.7	15997.0	18837.8	22310.8	26561.3	33275.4	47377.5	68316.2	97086.4
12.5°	10933.3	12570.1	14609.5	17165.3	20564.6	24765.4	31338.9	44661.8	68316.2	104074.1	157709.1
10°	11382.5	13200.2	15509.9	18497.8	22345.9	27603.7	36744.2	56519.0	97086.4	157709.1	226488.7
7.5°	11737.8	13700.0	16226.6	19564.3	23875.2	30615.3	45433.6	76934.7	131839.4	208371.0	298389.3
5°	11994.9	14062.5	16747.7	20342.5	24996.2	32835.6	51889.4	92878.8	163213.6	255238.9	357990.8
2.5°	12150.6	14282.3	17064.3	20816.4	25681.0	34197.7	55873.0	102798.1	182967.7	286487.5	398937.3
0°	12202.7	14355.9	17170.5	20975.6	25911.4	34657.0	57220.4	106168.4	189725.4	297365.1	413467.2
-2.5°	12150.6	14282.3	17064.3	20816.4	25681.0	34197.7	55873.0	102798.1	182967.7	286487.5	398937.3
-5°	11994.9	14062.5	16747.7	20342.5	24996.2	32835.6	51889.4	92878.8	163213.6	255238.9	357990.8
-7.5°	11737.8	13700.0	16226.6	19564.3	23875.2	30615.3	45433.6	76934.7	131839.4	208371.0	298389.3
-10°	11382.5	13200.2	15509.9	18497.8	22345.9	27603.7	36744.2	56519.0	97086.4	157709.1	226488.7
-12.5°	10933.3	12570.1	14609.5	17165.3	20564.6	24765.4	31338.9	44661.8	68316.2	104074.1	157709.1
-15°	10425.8	11903.4	13730.7	15997.0	18837.8	22310.8	26561.3	33275.4	47377.5	68316.2	97086.4
-17.5°	9947.0	11230.3	12792.0	14665.1	16956.4	19876.3	23271.9	27474.5	33275.4	44661.8	56519.0
-20°	9408.8	10488.2	11846.8	13461.7	15359.8	17544.7	20228.4	23271.9	26561.3	31338.9	36744.2



REPORT NUMBER: P1212088 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-80-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8964.8	9850.2	10956.8	12231.9	13803.1	15594.6	17544.7	19876.3	22310.8	24765.4	27603.7
-25°	8548.9	9187.9	10120.4	11201.1	12396.1	13803.1	15359.8	16956.4	18837.8	20564.6	22345.9
-27.5°	8209.6	8712.2	9335.8	10211.4	11201.1	12231.9	13461.7	14665.1	15997.0	17165.3	18497.8
-30°	7904.4	8278.1	8767.1	9335.8	10120.4	10956.8	11846.8	12792.0	13730.7	14609.5	15509.9
-32.5°	7330.0	7937.8	8278.1	8712.2	9187.9	9850.2	10488.2	11230.3	11903.4	12570.1	13200.2
-35°	6610.9	7330.0	7904.4	8209.6	8548.9	8964.8	9408.8	9947.0	10425.8	10933.3	11382.5
-37.5°	5579.2	6516.9	7206.6	7751.6	8074.2	8324.6	8637.8	8960.0	9250.3	9632.0	9949.9
-40°	4896.2	5396.3	6237.1	6962.6	7441.1	7875.1	8088.8	8281.6	8478.8	8706.1	8895.0
-42.5°	4395.8	4770.0	5142.0	5777.2	6472.2	7016.1	7393.4	7733.1	7952.7	8088.0	8200.2
-45°	3953.0	4259.0	4562.2	4889.6	5195.1	5743.7	6288.5	6777.8	7075.8	7313.1	7509.5
-47.5°	3385.7	3764.7	4056.9	4311.0	4560.5	4822.0	5060.0	5312.2	5709.3	6049.5	6330.9
-50°	2797.5	3127.4	3460.7	3773.4	4012.2	4213.9	4397.2	4576.8	4749.4	4897.2	5019.2
-52.5°	2243.2	2531.3	2811.0	3078.6	3347.0	3593.6	3817.4	3977.1	4109.3	4222.4	4315.7
-55°	1854.0	2040.9	2216.9	2437.4	2661.1	2866.4	3056.0	3239.4	3400.0	3537.1	3650.2
-57.5°	1528.2	1659.0	1793.5	1944.5	2084.3	2212.3	2359.6	2511.3	2644.0	2757.2	2850.5
-60°	1230.0	1344.9	1457.1	1562.0	1659.0	1748.4	1854.0	1948.1	2030.3	2100.3	2158.0
-62.5°	939.5	1040.5	1138.6	1230.0	1314.4	1393.2	1465.9	1530.7	1587.2	1635.3	1675.0
-65°	668.1	754.5	835.4	910.8	980.6	1050.0	1112.7	1168.5	1217.2	1258.6	1292.7
-67.5°	466.4	520.4	570.9	618.0	673.5	730.2	781.3	826.7	866.3	900.1	927.8
-70°	301.6	338.1	372.3	407.8	446.0	480.9	512.4	540.4	564.8	585.6	602.6
-72.5°	172.5	193.1	214.9	242.5	268.0	291.2	312.2	330.8	347.0	360.8	372.1
-75°	84.1	93.6	110.0	125.3	139.4	152.2	163.7	174.0	182.9	190.5	196.8
-77.5°	50.5	55.6	60.3	64.7	68.7	72.4	75.7	78.7	81.2	83.4	85.2
-80°	32.6	34.6	36.4	38.0	39.6	40.9	42.2	43.3	44.3	45.1	45.8
-82.5°	23.2	23.8	24.3	24.7	25.2	25.6	25.9	26.3	26.5	26.8	27.0
-85°	19.1	19.2	19.3	19.4	19.4	19.5	19.6	19.6	19.7	19.7	19.7
-87.5°	14.7	15.1	15.5	15.9	16.2	16.5	16.8	17.1	17.3	17.5	17.6
-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: P1212088 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-100R-40-80-1S-HEG

**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°	17.7	17.8	17.9	17.9	17.9	17.8	17.7	17.6	17.5	17.3	17.1
85°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.7	19.7	19.7	19.6
82.5°	27.1	27.2	27.3	27.3	27.3	27.2	27.1	27.0	26.8	26.5	26.3
80°	46.3	46.7	46.9	47.0	46.9	46.7	46.3	45.8	45.1	44.3	43.3
77.5°	86.6	87.6	88.2	88.4	88.2	87.6	86.6	85.2	83.4	81.2	78.7
75°	201.6	205.1	207.2	207.9	207.2	205.1	201.6	196.8	190.5	182.9	174.0
72.5°	380.9	387.2	391.0	392.3	391.0	387.2	380.9	372.1	360.8	347.0	330.8
70°	615.9	625.5	631.2	633.1	631.2	625.5	615.9	602.6	585.6	564.8	540.4
67.5°	949.5	965.0	974.3	977.4	974.3	965.0	949.5	927.8	900.1	866.3	826.7
65°	1319.3	1338.4	1349.9	1353.7	1349.9	1338.4	1319.3	1292.7	1258.6	1217.2	1168.5
62.5°	1705.9	1728.1	1741.4	1745.9	1741.4	1728.1	1705.9	1675.0	1635.3	1587.2	1530.7
60°	2203.1	2235.5	2254.9	2261.4	2254.9	2235.5	2203.1	2158.0	2100.3	2030.3	1948.1
57.5°	2923.4	2975.7	3007.2	3017.7	3007.2	2975.7	2923.4	2850.5	2757.2	2644.0	2511.3
55°	3738.6	3802.1	3840.3	3853.1	3840.3	3802.1	3738.6	3650.2	3537.1	3400.0	3239.4
52.5°	4388.7	4441.2	4472.8	4483.3	4472.8	4441.2	4388.7	4315.7	4222.4	4109.3	3977.1
50°	5114.8	5183.5	5224.9	5238.7	5224.9	5183.5	5114.8	5019.2	4897.2	4749.4	4576.8
47.5°	6551.6	6710.3	6805.9	6837.9	6805.9	6710.3	6551.6	6330.9	6049.5	5709.3	5312.2
45°	7663.8	7774.9	7841.8	7864.2	7841.8	7774.9	7663.8	7509.5	7313.1	7075.8	6777.8
42.5°	8288.4	8352.0	8390.4	8403.2	8390.4	8352.0	8288.4	8200.2	8088.0	7952.7	7733.1
40°	9043.8	9151.1	9215.9	9237.6	9215.9	9151.1	9043.8	8895.0	8706.1	8478.8	8281.6
37.5°	10200.8	10382.0	10491.5	10528.2	10491.5	10382.0	10200.8	9949.9	9632.0	9250.3	8960.0
35°	11737.8	11994.9	12150.6	12202.7	12150.6	11994.9	11737.8	11382.5	10933.3	10425.8	9947.0
32.5°	13700.0	14062.5	14282.3	14355.9	14282.3	14062.5	13700.0	13200.2	12570.1	11903.4	11230.3
30°	16226.6	16747.7	17064.3	17170.5	17064.3	16747.7	16226.6	15509.9	14609.5	13730.7	12792.0
27.5°	19564.3	20342.5	20816.4	20975.6	20816.4	20342.5	19564.3	18497.8	17165.3	15997.0	14665.1
25°	23875.2	24996.2	25681.0	25911.4	25681.0	24996.2	23875.2	22345.9	20564.6	18837.8	16956.4
22.5°	30615.3	32835.6	34197.7	34657.0	34197.7	32835.6	30615.3	27603.7	24765.4	22310.8	19876.3
20°	45433.6	51889.4	55873.0	57220.4	55873.0	51889.4	45433.6	36744.2	31338.9	26561.3	23271.9
17.5°	76934.7	92878.8	102798.1	106168.4	102798.1	92878.8	76934.7	56519.0	44661.8	33275.4	27474.5
15°	131839.4	163213.6	182967.7	189725.4	182967.7	163213.6	131839.4	97086.4	68316.2	47377.5	33275.4
12.5°	208371.0	255238.9	286487.5	297365.1	286487.5	255238.9	208371.0	157709.1	104074.1	68316.2	44661.8
10°	298389.3	357990.8	398937.3	413467.2	398937.3	357990.8	298389.3	226488.7	157709.1	97086.4	56519.0
7.5°	385263.2	462581.7	519539.0	540474.9	519539.0	462581.7	385263.2	298389.3	208371.0	131839.4	76934.7
5°	462581.7	562967.2	646253.6	680090.5	646253.6	562967.2	462581.7	357990.8	255238.9	163213.6	92878.8
2.5°	519539.0	646253.6	768254.3	824952.5	768254.3	646253.6	519539.0	398937.3	286487.5	182967.7	102798.1
0°	540474.9	680090.5	824952.5	892792.4	824952.5	680090.5	540474.9	413467.2	297365.1	189725.4	106168.4
-2.5°	519539.0	646253.6	768254.3	824952.5	768254.3	646253.6	519539.0	398937.3	286487.5	182967.7	102798.1
-5°	462581.7	562967.2	646253.6	680090.5	646253.6	562967.2	462581.7	357990.8	255238.9	163213.6	92878.8
-7.5°	385263.2	462581.7	519539.0	540474.9	519539.0	462581.7	385263.2	298389.3	208371.0	131839.4	76934.7
-10°	298389.3	357990.8	398937.3	413467.2	398937.3	357990.8	298389.3	226488.7	157709.1	97086.4	56519.0
-12.5°	208371.0	255238.9	286487.5	297365.1	286487.5	255238.9	208371.0	157709.1	104074.1	68316.2	44661.8
-15°	131839.4	163213.6	182967.7	189725.4	182967.7	163213.6	131839.4	97086.4	68316.2	47377.5	33275.4
-17.5°	76934.7	92878.8	102798.1	106168.4	102798.1	92878.8	76934.7	56519.0	44661.8	33275.4	27474.5
-20°	45433.6	51889.4	55873.0	57220.4	55873.0	51889.4	45433.6	36744.2	31338.9	26561.3	23271.9



REPORT NUMBER: P1212088 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-80-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	30615.3	32835.6	34197.7	34657.0	34197.7	32835.6	30615.3	27603.7	24765.4	22310.8	19876.3
-25°	23875.2	24996.2	25681.0	25911.4	25681.0	24996.2	23875.2	22345.9	20564.6	18837.8	16956.4
-27.5°	19564.3	20342.5	20816.4	20975.6	20816.4	20342.5	19564.3	18497.8	17165.3	15997.0	14665.1
-30°	16226.6	16747.7	17064.3	17170.5	17064.3	16747.7	16226.6	15509.9	14609.5	13730.7	12792.0
-32.5°	13700.0	14062.5	14282.3	14355.9	14282.3	14062.5	13700.0	13200.2	12570.1	11903.4	11230.3
-35°	11737.8	11994.9	12150.6	12202.7	12150.6	11994.9	11737.8	11382.5	10933.3	10425.8	9947.0
-37.5°	10200.8	10382.0	10491.5	10528.2	10491.5	10382.0	10200.8	9949.9	9632.0	9250.3	8960.0
-40°	9043.8	9151.1	9215.9	9237.6	9215.9	9151.1	9043.8	8895.0	8706.1	8478.8	8281.6
-42.5°	8288.4	8352.0	8390.4	8403.2	8390.4	8352.0	8288.4	8200.2	8088.0	7952.7	7733.1
-45°	7663.8	7774.9	7841.8	7864.2	7841.8	7774.9	7663.8	7509.5	7313.1	7075.8	6777.8
-47.5°	6551.6	6710.3	6805.9	6837.9	6805.9	6710.3	6551.6	6330.9	6049.5	5709.3	5312.2
-50°	5114.8	5183.5	5224.9	5238.7	5224.9	5183.5	5114.8	5019.2	4897.2	4749.4	4576.8
-52.5°	4388.7	4441.2	4472.8	4483.3	4472.8	4441.2	4388.7	4315.7	4222.4	4109.3	3977.1
-55°	3738.6	3802.1	3840.3	3853.1	3840.3	3802.1	3738.6	3650.2	3537.1	3400.0	3239.4
-57.5°	2923.4	2975.7	3007.2	3017.7	3007.2	2975.7	2923.4	2850.5	2757.2	2644.0	2511.3
-60°	2203.1	2235.5	2254.9	2261.4	2254.9	2235.5	2203.1	2158.0	2100.3	2030.3	1948.1
-62.5°	1705.9	1728.1	1741.4	1745.9	1741.4	1728.1	1705.9	1675.0	1635.3	1587.2	1530.7
-65°	1319.3	1338.4	1349.9	1353.7	1349.9	1338.4	1319.3	1292.7	1258.6	1217.2	1168.5
-67.5°	949.5	965.0	974.3	977.4	974.3	965.0	949.5	927.8	900.1	866.3	826.7
-70°	615.9	625.5	631.2	633.1	631.2	625.5	615.9	602.6	585.6	564.8	540.4
-72.5°	380.9	387.2	391.0	392.3	391.0	387.2	380.9	372.1	360.8	347.0	330.8
-75°	201.6	205.1	207.2	207.9	207.2	205.1	201.6	196.8	190.5	182.9	174.0
-77.5°	86.6	87.6	88.2	88.4	88.2	87.6	86.6	85.2	83.4	81.2	78.7
-80°	46.3	46.7	46.9	47.0	46.9	46.7	46.3	45.8	45.1	44.3	43.3
-82.5°	27.1	27.2	27.3	27.3	27.3	27.2	27.1	27.0	26.8	26.5	26.3
-85°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.7	19.7	19.7	19.6
-87.5°	17.7	17.8	17.9	17.9	17.9	17.8	17.7	17.6	17.5	17.3	17.1
-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°	16.8	16.5	16.2	15.9	15.5	15.1	14.7	14.2	13.7	13.2	12.7
85°	19.6	19.5	19.4	19.4	19.3	19.2	19.1	19.0	18.9	18.8	18.7
82.5°	25.9	25.6	25.2	24.7	24.3	23.8	23.2	22.6	22.0	21.4	20.7
80°	42.2	40.9	39.6	38.0	36.4	34.6	32.6	30.6	28.4	26.9	26.0
77.5°	75.7	72.4	68.7	64.7	60.3	55.6	50.5	46.1	43.4	40.6	37.6
75°	163.7	152.2	139.4	125.3	110.0	93.6	84.1	77.6	70.8	63.6	56.0
72.5°	312.2	291.2	268.0	242.5	214.9	193.1	172.5	150.6	127.5	103.2	84.7
70°	512.4	480.9	446.0	407.8	372.3	338.1	301.6	262.8	221.8	189.0	159.9
67.5°	781.3	730.2	673.5	618.0	570.9	520.4	466.4	409.1	358.9	310.3	259.5
65°	1112.7	1050.0	980.6	910.8	835.4	754.5	668.1	593.6	526.1	455.4	384.0
62.5°	1465.9	1393.2	1314.4	1230.0	1138.6	1040.5	939.5	838.2	731.6	623.8	542.3
60°	1854.0	1748.4	1659.0	1562.0	1457.1	1344.9	1230.0	1108.4	980.6	857.8	730.2
57.5°	2359.6	2212.3	2084.3	1944.5	1793.5	1659.0	1528.2	1389.9	1249.1	1103.4	953.9
55°	3056.0	2866.4	2661.1	2437.4	2216.9	2040.9	1854.0	1678.1	1520.7	1356.3	1192.3
52.5°	3817.4	3593.6	3347.0	3078.6	2811.0	2531.3	2243.2	2030.3	1807.1	1615.4	1431.6
50°	4397.2	4213.9	4012.2	3773.4	3460.7	3127.4	2797.5	2461.4	2158.0	1908.5	1672.8
47.5°	5060.0	4822.0	4560.5	4311.0	4056.9	3764.7	3385.7	2990.6	2614.4	2235.5	1959.6
45°	6288.5	5743.7	5195.1	4889.6	4562.2	4259.0	3953.0	3560.4	3117.2	2691.5	2261.4
42.5°	7393.4	7016.1	6472.2	5777.2	5142.0	4770.0	4395.8	4054.1	3648.4	3160.6	2691.5
40°	8088.8	7875.1	7441.1	6962.6	6237.1	5396.3	4896.2	4464.8	4088.0	3648.4	3117.2
37.5°	8637.8	8324.6	8074.2	7751.6	7206.6	6516.9	5579.2	4938.5	4464.8	4054.1	3560.4
35°	9408.8	8964.8	8548.9	8209.6	7904.4	7330.0	6610.9	5579.2	4896.2	4395.8	3953.0
32.5°	10488.2	9850.2	9187.9	8712.2	8278.1	7937.8	7330.0	6516.9	5396.3	4770.0	4259.0
30°	11846.8	10956.8	10120.4	9335.8	8767.1	8278.1	7904.4	7206.6	6237.1	5142.0	4562.2
27.5°	13461.7	12231.9	11201.1	10211.4	9335.8	8712.2	8209.6	7751.6	6962.6	5777.2	4889.6
25°	15359.8	13803.1	12396.1	11201.1	10120.4	9187.9	8548.9	8074.2	7441.1	6472.2	5195.1
22.5°	17544.7	15594.6	13803.1	12231.9	10956.8	9850.2	8964.8	8324.6	7875.1	7016.1	5743.7
20°	20228.4	17544.7	15359.8	13461.7	11846.8	10488.2	9408.8	8637.8	8088.8	7393.4	6288.5
17.5°	23271.9	19876.3	16956.4	14665.1	12792.0	11230.3	9947.0	8960.0	8281.6	7733.1	6777.8
15°	26561.3	22310.8	18837.8	15997.0	13730.7	11903.4	10425.8	9250.3	8478.8	7952.7	7075.8
12.5°	31338.9	24765.4	20564.6	17165.3	14609.5	12570.1	10933.3	9632.0	8706.1	8088.0	7313.1
10°	36744.2	27603.7	22345.9	18497.8	15509.9	13200.2	11382.5	9949.9	8895.0	8200.2	7509.5
7.5°	45433.6	30615.3	23875.2	19564.3	16226.6	13700.0	11737.8	10200.8	9043.8	8288.4	7663.8
5°	51889.4	32835.6	24996.2	20342.5	16747.7	14062.5	11994.9	10382.0	9151.1	8352.0	7774.9
2.5°	55873.0	34197.7	25681.0	20816.4	17064.3	14282.3	12150.6	10491.5	9215.9	8390.4	7841.8
0°	57220.4	34657.0	25911.4	20975.6	17170.5	14355.9	12202.7	10528.2	9237.6	8403.2	7864.2
-2.5°	55873.0	34197.7	25681.0	20816.4	17064.3	14282.3	12150.6	10491.5	9215.9	8390.4	7841.8
-5°	51889.4	32835.6	24996.2	20342.5	16747.7	14062.5	11994.9	10382.0	9151.1	8352.0	7774.9
-7.5°	45433.6	30615.3	23875.2	19564.3	16226.6	13700.0	11737.8	10200.8	9043.8	8288.4	7663.8
-10°	36744.2	27603.7	22345.9	18497.8	15509.9	13200.2	11382.5	9949.9	8895.0	8200.2	7509.5
-12.5°	31338.9	24765.4	20564.6	17165.3	14609.5	12570.1	10933.3	9632.0	8706.1	8088.0	7313.1
-15°	26561.3	22310.8	18837.8	15997.0	13730.7	11903.4	10425.8	9250.3	8478.8	7952.7	7075.8
-17.5°	23271.9	19876.3	16956.4	14665.1	12792.0	11230.3	9947.0	8960.0	8281.6	7733.1	6777.8
-20°	20228.4	17544.7	15359.8	13461.7	11846.8	10488.2	9408.8	8637.8	8088.8	7393.4	6288.5



REPORT NUMBER: P1212088 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-80-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	17544.7	15594.6	13803.1	12231.9	10956.8	9850.2	8964.8	8324.6	7875.1	7016.1	5743.7
-25°	15359.8	13803.1	12396.1	11201.1	10120.4	9187.9	8548.9	8074.2	7441.1	6472.2	5195.1
-27.5°	13461.7	12231.9	11201.1	10211.4	9335.8	8712.2	8209.6	7751.6	6962.6	5777.2	4889.6
-30°	11846.8	10956.8	10120.4	9335.8	8767.1	8278.1	7904.4	7206.6	6237.1	5142.0	4562.2
-32.5°	10488.2	9850.2	9187.9	8712.2	8278.1	7937.8	7330.0	6516.9	5396.3	4770.0	4259.0
-35°	9408.8	8964.8	8548.9	8209.6	7904.4	7330.0	6610.9	5579.2	4896.2	4395.8	3953.0
-37.5°	8637.8	8324.6	8074.2	7751.6	7206.6	6516.9	5579.2	4938.5	4464.8	4054.1	3560.4
-40°	8088.8	7875.1	7441.1	6962.6	6237.1	5396.3	4896.2	4464.8	4088.0	3648.4	3117.2
-42.5°	7393.4	7016.1	6472.2	5777.2	5142.0	4770.0	4395.8	4054.1	3648.4	3160.6	2691.5
-45°	6288.5	5743.7	5195.1	4889.6	4562.2	4259.0	3953.0	3560.4	3117.2	2691.5	2261.4
-47.5°	5060.0	4822.0	4560.5	4311.0	4056.9	3764.7	3385.7	2990.6	2614.4	2235.5	1959.6
-50°	4397.2	4213.9	4012.2	3773.4	3460.7	3127.4	2797.5	2461.4	2158.0	1908.5	1672.8
-52.5°	3817.4	3593.6	3347.0	3078.6	2811.0	2531.3	2243.2	2030.3	1807.1	1615.4	1431.6
-55°	3056.0	2866.4	2661.1	2437.4	2216.9	2040.9	1854.0	1678.1	1520.7	1356.3	1192.3
-57.5°	2359.6	2212.3	2084.3	1944.5	1793.5	1659.0	1528.2	1389.9	1249.1	1103.4	953.9
-60°	1854.0	1748.4	1659.0	1562.0	1457.1	1344.9	1230.0	1108.4	980.6	857.8	730.2
-62.5°	1465.9	1393.2	1314.4	1230.0	1138.6	1040.5	939.5	838.2	731.6	623.8	542.3
-65°	1112.7	1050.0	980.6	910.8	835.4	754.5	668.1	593.6	526.1	455.4	384.0
-67.5°	781.3	730.2	673.5	618.0	570.9	520.4	466.4	409.1	358.9	310.3	259.5
-70°	512.4	480.9	446.0	407.8	372.3	338.1	301.6	262.8	221.8	189.0	159.9
-72.5°	312.2	291.2	268.0	242.5	214.9	193.1	172.5	150.6	127.5	103.2	84.7
-75°	163.7	152.2	139.4	125.3	110.0	93.6	84.1	77.6	70.8	63.6	56.0
-77.5°	75.7	72.4	68.7	64.7	60.3	55.6	50.5	46.1	43.4	40.6	37.6
-80°	42.2	40.9	39.6	38.0	36.4	34.6	32.6	30.6	28.4	26.9	26.0
-82.5°	25.9	25.6	25.2	24.7	24.3	23.8	23.2	22.6	22.0	21.4	20.7
-85°	19.6	19.5	19.4	19.4	19.3	19.2	19.1	19.0	18.9	18.8	18.7
-87.5°	16.8	16.5	16.2	15.9	15.5	15.1	14.7	14.2	13.7	13.2	12.7
-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: P1212088 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-80-1S-HEG

**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°	12.1	11.5	10.9	10.3	9.6	8.9	8.3	7.6	6.8	6.1	5.4
85°	18.6	18.4	18.3	18.2	18.0	17.9	16.5	15.1	13.7	12.2	10.8
82.5°	20.0	19.7	19.5	19.3	19.1	18.8	18.6	18.4	18.2	17.9	16.1
80°	25.0	24.0	23.0	21.9	20.9	19.8	19.5	19.2	18.9	18.6	18.3
77.5°	34.5	31.2	27.9	26.2	24.8	23.4	22.0	20.5	19.6	19.2	18.8
75°	48.2	43.7	39.6	35.5	31.2	27.1	25.4	23.6	21.9	20.0	19.4
72.5°	75.5	66.0	56.1	46.5	41.5	36.3	31.1	26.7	24.6	22.5	20.4
70°	129.5	98.0	80.4	68.7	56.8	45.8	39.8	33.7	27.5	25.0	22.5
67.5°	207.1	171.6	134.8	97.0	77.9	64.1	49.9	41.5	34.6	27.5	24.6
65°	325.2	264.2	203.5	161.5	118.3	83.4	67.8	51.8	41.5	33.7	26.7
62.5°	457.5	375.0	305.7	234.3	177.5	129.0	85.3	67.8	49.9	39.8	31.1
60°	608.3	512.4	413.6	330.8	251.0	182.9	129.0	83.4	64.1	45.8	36.3
57.5°	810.0	661.2	545.6	435.6	339.2	251.0	177.5	118.3	77.9	56.8	41.5
55°	1022.4	858.2	693.2	556.8	435.6	330.8	234.3	161.5	97.0	68.7	46.5
52.5°	1246.1	1058.0	874.4	693.2	545.6	413.6	305.7	203.5	134.8	80.4	56.1
50°	1469.5	1264.1	1058.0	858.2	661.2	512.4	375.0	264.2	171.6	98.0	66.0
47.5°	1692.0	1469.5	1246.1	1022.4	810.0	608.3	457.5	325.2	207.1	129.5	75.5
45°	1959.6	1672.8	1431.6	1192.3	953.9	730.2	542.3	384.0	259.5	159.9	84.7
42.5°	2235.5	1908.5	1615.4	1356.3	1103.4	857.8	623.8	455.4	310.3	189.0	103.2
40°	2614.4	2158.0	1807.1	1520.7	1249.1	980.6	731.6	526.1	358.9	221.8	127.5
37.5°	2990.6	2461.4	2030.3	1678.1	1389.9	1108.4	838.2	593.6	409.1	262.8	150.6
35°	3385.7	2797.5	2243.2	1854.0	1528.2	1230.0	939.5	668.1	466.4	301.6	172.5
32.5°	3764.7	3127.4	2531.3	2040.9	1659.0	1344.9	1040.5	754.5	520.4	338.1	193.1
30°	4056.9	3460.7	2811.0	2216.9	1793.5	1457.1	1138.6	835.4	570.9	372.3	214.9
27.5°	4311.0	3773.4	3078.6	2437.4	1944.5	1562.0	1230.0	910.8	618.0	407.8	242.5
25°	4560.5	4012.2	3347.0	2661.1	2084.3	1659.0	1314.4	980.6	673.5	446.0	268.0
22.5°	4822.0	4213.9	3593.6	2866.4	2212.3	1748.4	1393.2	1050.0	730.2	480.9	291.2
20°	5060.0	4397.2	3817.4	3056.0	2359.6	1854.0	1465.9	1112.7	781.3	512.4	312.2
17.5°	5312.2	4576.8	3977.1	3239.4	2511.3	1948.1	1530.7	1168.5	826.7	540.4	330.8
15°	5709.3	4749.4	4109.3	3400.0	2644.0	2030.3	1587.2	1217.2	866.3	564.8	347.0
12.5°	6049.5	4897.2	4222.4	3537.1	2757.2	2100.3	1635.3	1258.6	900.1	585.6	360.8
10°	6330.9	5019.2	4315.7	3650.2	2850.5	2158.0	1675.0	1292.7	927.8	602.6	372.1
7.5°	6551.6	5114.8	4388.7	3738.6	2923.4	2203.1	1705.9	1319.3	949.5	615.9	380.9
5°	6710.3	5183.5	4441.2	3802.1	2975.7	2235.5	1728.1	1338.4	965.0	625.5	387.2
2.5°	6805.9	5224.9	4472.8	3840.3	3007.2	2254.9	1741.4	1349.9	974.3	631.2	391.0
0°	6837.9	5238.7	4483.3	3853.1	3017.7	2261.4	1745.9	1353.7	977.4	633.1	392.3
-2.5°	6805.9	5224.9	4472.8	3840.3	3007.2	2254.9	1741.4	1349.9	974.3	631.2	391.0
-5°	6710.3	5183.5	4441.2	3802.1	2975.7	2235.5	1728.1	1338.4	965.0	625.5	387.2
-7.5°	6551.6	5114.8	4388.7	3738.6	2923.4	2203.1	1705.9	1319.3	949.5	615.9	380.9
-10°	6330.9	5019.2	4315.7	3650.2	2850.5	2158.0	1675.0	1292.7	927.8	602.6	372.1
-12.5°	6049.5	4897.2	4222.4	3537.1	2757.2	2100.3	1635.3	1258.6	900.1	585.6	360.8
-15°	5709.3	4749.4	4109.3	3400.0	2644.0	2030.3	1587.2	1217.2	866.3	564.8	347.0
-17.5°	5312.2	4576.8	3977.1	3239.4	2511.3	1948.1	1530.7	1168.5	826.7	540.4	330.8
-20°	5060.0	4397.2	3817.4	3056.0	2359.6	1854.0	1465.9	1112.7	781.3	512.4	312.2



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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°	4822.0	4213.9	3593.6	2866.4	2212.3	1748.4	1393.2	1050.0	730.2	480.9	291.2
-25°	4560.5	4012.2	3347.0	2661.1	2084.3	1659.0	1314.4	980.6	673.5	446.0	268.0
-27.5°	4311.0	3773.4	3078.6	2437.4	1944.5	1562.0	1230.0	910.8	618.0	407.8	242.5
-30°	4056.9	3460.7	2811.0	2216.9	1793.5	1457.1	1138.6	835.4	570.9	372.3	214.9
-32.5°	3764.7	3127.4	2531.3	2040.9	1659.0	1344.9	1040.5	754.5	520.4	338.1	193.1
-35°	3385.7	2797.5	2243.2	1854.0	1528.2	1230.0	939.5	668.1	466.4	301.6	172.5
-37.5°	2990.6	2461.4	2030.3	1678.1	1389.9	1108.4	838.2	593.6	409.1	262.8	150.6
-40°	2614.4	2158.0	1807.1	1520.7	1249.1	980.6	731.6	526.1	358.9	221.8	127.5
-42.5°	2235.5	1908.5	1615.4	1356.3	1103.4	857.8	623.8	455.4	310.3	189.0	103.2
-45°	1959.6	1672.8	1431.6	1192.3	953.9	730.2	542.3	384.0	259.5	159.9	84.7
-47.5°	1692.0	1469.5	1246.1	1022.4	810.0	608.3	457.5	325.2	207.1	129.5	75.5
-50°	1469.5	1264.1	1058.0	858.2	661.2	512.4	375.0	264.2	171.6	98.0	66.0
-52.5°	1246.1	1058.0	874.4	693.2	545.6	413.6	305.7	203.5	134.8	80.4	56.1
-55°	1022.4	858.2	693.2	556.8	435.6	330.8	234.3	161.5	97.0	68.7	46.5
-57.5°	810.0	661.2	545.6	435.6	339.2	251.0	177.5	118.3	77.9	56.8	41.5
-60°	608.3	512.4	413.6	330.8	251.0	182.9	129.0	83.4	64.1	45.8	36.3
-62.5°	457.5	375.0	305.7	234.3	177.5	129.0	85.3	67.8	49.9	39.8	31.1
-65°	325.2	264.2	203.5	161.5	118.3	83.4	67.8	51.8	41.5	33.7	26.7
-67.5°	207.1	171.6	134.8	97.0	77.9	64.1	49.9	41.5	34.6	27.5	24.6
-70°	129.5	98.0	80.4	68.7	56.8	45.8	39.8	33.7	27.5	25.0	22.5
-72.5°	75.5	66.0	56.1	46.5	41.5	36.3	31.1	26.7	24.6	22.5	20.4
-75°	48.2	43.7	39.6	35.5	31.2	27.1	25.4	23.6	21.9	20.0	19.4
-77.5°	34.5	31.2	27.9	26.2	24.8	23.4	22.0	20.5	19.6	19.2	18.8
-80°	25.0	24.0	23.0	21.9	20.9	19.8	19.5	19.2	18.9	18.6	18.3
-82.5°	20.0	19.7	19.5	19.3	19.1	18.8	18.6	18.4	18.2	17.9	16.1
-85°	18.6	18.4	18.3	18.2	18.0	17.9	16.5	15.1	13.7	12.2	10.8
-87.5°	12.1	11.5	10.9	10.3	9.6	8.9	8.3	7.6	6.8	6.1	5.4
-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):**

	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°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
85°	9.3	7.7	6.2	4.7	3.1	1.6	0.0
82.5°	13.9	11.6	9.3	7.0	4.7	2.3	0.0
80°	18.0	15.4	12.4	9.3	6.2	3.1	0.0
77.5°	18.4	18.0	15.4	11.6	7.7	3.9	0.0
75°	18.9	18.4	18.0	13.9	9.3	4.6	0.0
72.5°	19.4	18.8	18.3	16.1	10.8	5.4	0.0
70°	20.0	19.2	18.6	17.9	12.2	6.1	0.0
67.5°	21.9	19.6	18.9	18.2	13.7	6.8	0.0
65°	23.6	20.5	19.2	18.4	15.1	7.6	0.0
62.5°	25.4	22.0	19.5	18.6	16.5	8.3	0.0
60°	27.1	23.4	19.8	18.8	17.9	8.9	0.0
57.5°	31.2	24.8	20.9	19.1	18.0	9.6	0.0
55°	35.5	26.2	21.9	19.3	18.2	10.3	0.0
52.5°	39.6	27.9	23.0	19.5	18.3	10.9	0.0
50°	43.7	31.2	24.0	19.7	18.4	11.5	0.0
47.5°	48.2	34.5	25.0	20.0	18.6	12.1	0.0
45°	56.0	37.6	26.0	20.7	18.7	12.7	0.0
42.5°	63.6	40.6	26.9	21.4	18.8	13.2	0.0
40°	70.8	43.4	28.4	22.0	18.9	13.7	0.0
37.5°	77.6	46.1	30.6	22.6	19.0	14.2	0.0
35°	84.1	50.5	32.6	23.2	19.1	14.7	0.0
32.5°	93.6	55.6	34.6	23.8	19.2	15.1	0.0
30°	110.0	60.3	36.4	24.3	19.3	15.5	0.0
27.5°	125.3	64.7	38.0	24.7	19.4	15.9	0.0
25°	139.4	68.7	39.6	25.2	19.4	16.2	0.0
22.5°	152.2	72.4	40.9	25.6	19.5	16.5	0.0
20°	163.7	75.7	42.2	25.9	19.6	16.8	0.0
17.5°	174.0	78.7	43.3	26.3	19.6	17.1	0.0
15°	182.9	81.2	44.3	26.5	19.7	17.3	0.0
12.5°	190.5	83.4	45.1	26.8	19.7	17.5	0.0
10°	196.8	85.2	45.8	27.0	19.7	17.6	0.0
7.5°	201.6	86.6	46.3	27.1	19.8	17.7	0.0
5°	205.1	87.6	46.7	27.2	19.8	17.8	0.0
2.5°	207.2	88.2	46.9	27.3	19.8	17.9	0.0
0°	207.9	88.4	47.0	27.3	19.8	17.9	0.0
-2.5°	207.2	88.2	46.9	27.3	19.8	17.9	0.0
-5°	205.1	87.6	46.7	27.2	19.8	17.8	0.0
-7.5°	201.6	86.6	46.3	27.1	19.8	17.7	0.0
-10°	196.8	85.2	45.8	27.0	19.7	17.6	0.0
-12.5°	190.5	83.4	45.1	26.8	19.7	17.5	0.0
-15°	182.9	81.2	44.3	26.5	19.7	17.3	0.0
-17.5°	174.0	78.7	43.3	26.3	19.6	17.1	0.0
-20°	163.7	75.7	42.2	25.9	19.6	16.8	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	152.2	72.4	40.9	25.6	19.5	16.5	0.0
-25°	139.4	68.7	39.6	25.2	19.4	16.2	0.0
-27.5°	125.3	64.7	38.0	24.7	19.4	15.9	0.0
-30°	110.0	60.3	36.4	24.3	19.3	15.5	0.0
-32.5°	93.6	55.6	34.6	23.8	19.2	15.1	0.0
-35°	84.1	50.5	32.6	23.2	19.1	14.7	0.0
-37.5°	77.6	46.1	30.6	22.6	19.0	14.2	0.0
-40°	70.8	43.4	28.4	22.0	18.9	13.7	0.0
-42.5°	63.6	40.6	26.9	21.4	18.8	13.2	0.0
-45°	56.0	37.6	26.0	20.7	18.7	12.7	0.0
-47.5°	48.2	34.5	25.0	20.0	18.6	12.1	0.0
-50°	43.7	31.2	24.0	19.7	18.4	11.5	0.0
-52.5°	39.6	27.9	23.0	19.5	18.3	10.9	0.0
-55°	35.5	26.2	21.9	19.3	18.2	10.3	0.0
-57.5°	31.2	24.8	20.9	19.1	18.0	9.6	0.0
-60°	27.1	23.4	19.8	18.8	17.9	8.9	0.0
-62.5°	25.4	22.0	19.5	18.6	16.5	8.3	0.0
-65°	23.6	20.5	19.2	18.4	15.1	7.6	0.0
-67.5°	21.9	19.6	18.9	18.2	13.7	6.8	0.0
-70°	20.0	19.2	18.6	17.9	12.2	6.1	0.0
-72.5°	19.4	18.8	18.3	16.1	10.8	5.4	0.0
-75°	18.9	18.4	18.0	13.9	9.3	4.6	0.0
-77.5°	18.4	18.0	15.4	11.6	7.7	3.9	0.0
-80°	18.0	15.4	12.4	9.3	6.2	3.1	0.0
-82.5°	13.9	11.6	9.3	7.0	4.7	2.3	0.0
-85°	9.3	7.7	6.2	4.7	3.1	1.6	0.0
-87.5°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)