

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: P1212091 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-40-80-2S-HEG**

Issue Date: 11/14/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1212091 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/14/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: EPHESUS  
Catalog Number: EPH-LS12-1000R-40-80-2S-HEG  
Description: EPHESUS LS12 LUMINAIRE  
(12) 4000K, 80 CRI LEDS AND 2S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

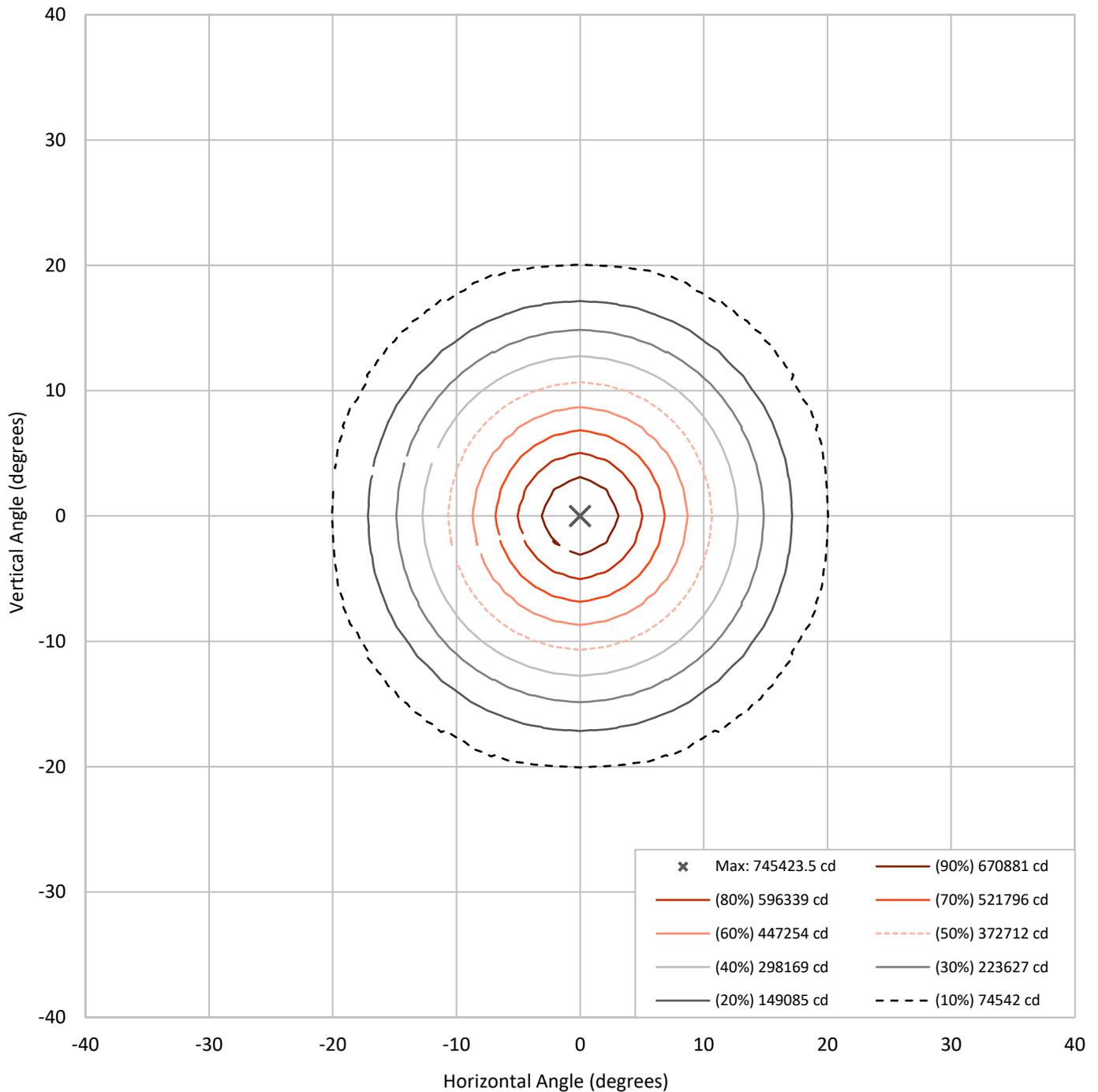
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	146653.2 lumens	Max Intensity:	745423.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	136.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	21.4°H x 21.4°V	Field Angle (10%):	40.1°H x 40.1°V
Beam Lumens:	51283.8 lumens	Field Lumens:	109245.8 lumens
Beam Efficiency:	35.0%	Field Efficiency:	74.5%
Input Watts (W):	1078.1		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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CATALOG NUMBER: EPH-LS12-1000R-40-80-2S-HEG

### Iso-Candela Plot





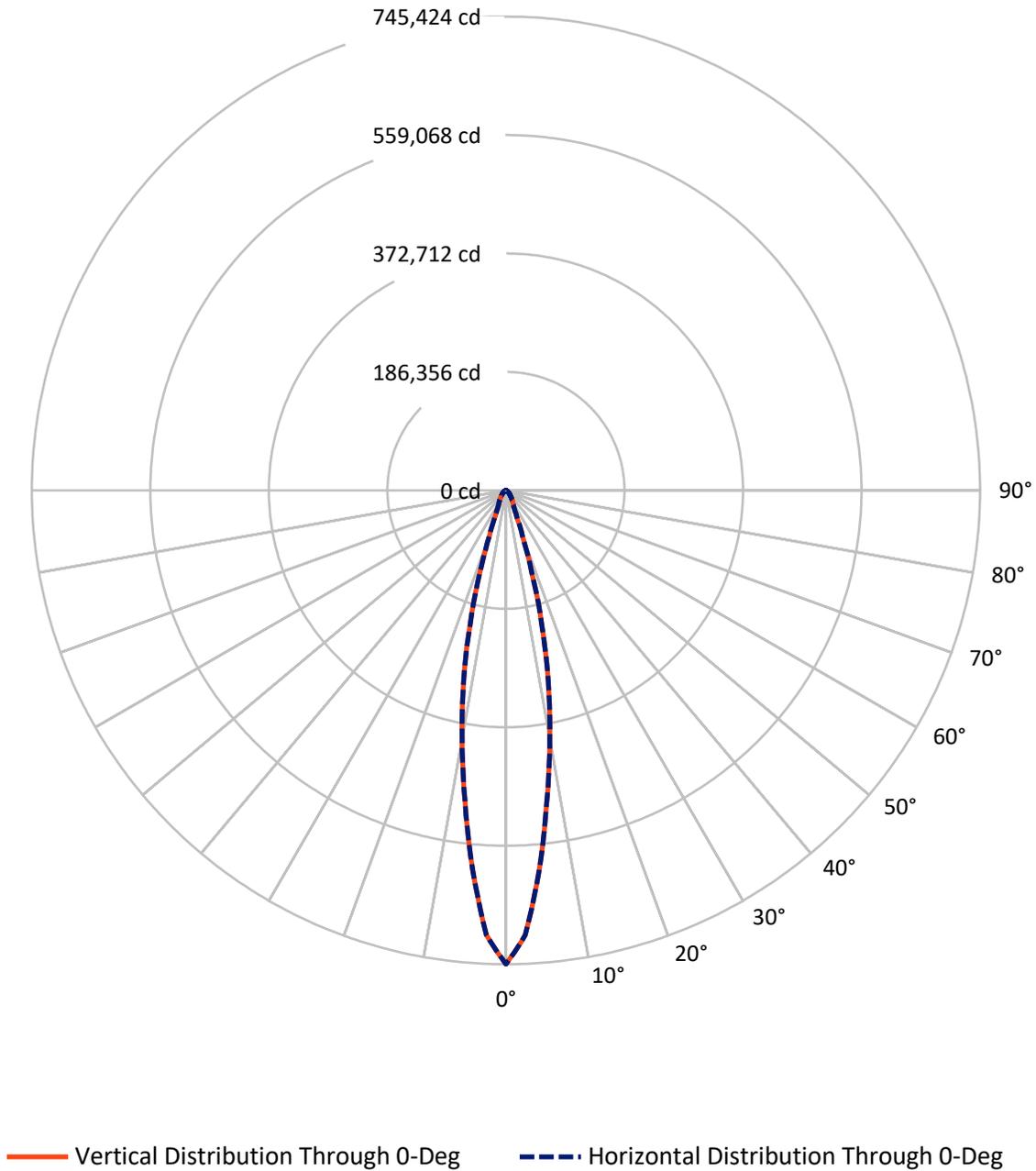
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### Lumen Table

90	0.2		1.3		5.2		13.2		17.3		13.2		5.2		1.3		0.2	
80	0.6		0.8	3.3	9.5	19.2	29.9	39.0	44.2	44.2	39.0	29.9	19.2	9.5	3.3	0.8	0.6	
70	0.6		2.5	11.2	27.9	50.9	79.2	105.3	120.4	120.4	105.3	79.2	50.9	27.9	11.2	2.5	0.6	
60	1.7		5.9	22.8	53.9	104.0	163.6	217.2	248.7	248.7	217.2	163.6	104.0	53.9	22.8	5.9	1.7	
50	1.7		10.2	36.0	90.2	174.0	274.1	386.6	466.4	466.4	386.6	274.1	174.0	90.2	36.0	10.2	1.7	
40	3.9		14.4	50.9	128.5	248.4	440.0	696.9	1028.0	1028.0	696.9	440.0	248.4	128.5	50.9	14.4	3.9	
30	3.9		17.6	63.6	160.2	329.4	655.5	2167.8	5792.2	5792.2	2167.8	655.5	329.4	160.2	63.6	17.6	3.9	
20	4.8		19.4	70.4	177.9	385.8	941.8	5643.4	14797.0	14797.0	5643.4	941.8	385.8	177.9	70.4	19.4	4.8	
10	4.8		19.4	70.4	177.9	385.8	941.8	5643.4	14797.0	14797.0	5643.4	941.8	385.8	177.9	70.4	19.4	4.8	
0	3.9		17.6	63.6	160.2	329.4	655.5	2167.8	5792.2	5792.2	2167.8	655.5	329.4	160.2	63.6	17.6	3.9	
-10	3.9		14.4	50.9	128.5	248.4	440.0	696.9	1028.0	1028.0	696.9	440.0	248.4	128.5	50.9	14.4	3.9	
-20	1.7		10.2	36.0	90.2	174.0	274.1	386.6	466.4	466.4	386.6	274.1	174.0	90.2	36.0	10.2	1.7	
-30	1.7		5.9	22.8	53.9	104.0	163.6	217.2	248.7	248.7	217.2	163.6	104.0	53.9	22.8	5.9	1.7	
-40	0.6		2.5	11.2	27.9	50.9	79.2	105.3	120.4	120.4	105.3	79.2	50.9	27.9	11.2	2.5	0.6	
-50	0.6		0.8	3.3	9.5	19.2	29.9	39.0	44.2	44.2	39.0	29.9	19.2	9.5	3.3	0.8	0.6	
-60	0.6		0.8	3.3	9.5	19.2	29.9	39.0	44.2	44.2	39.0	29.9	19.2	9.5	3.3	0.8	0.6	
-70	0.6		0.8	3.3	9.5	19.2	29.9	39.0	44.2	44.2	39.0	29.9	19.2	9.5	3.3	0.8	0.6	
-80	0.2		1.3		5.2		13.2		17.3		13.2		5.2		1.3		0.2	
-90	0.2		1.3		5.2		13.2		17.3		13.2		5.2		1.3		0.2	

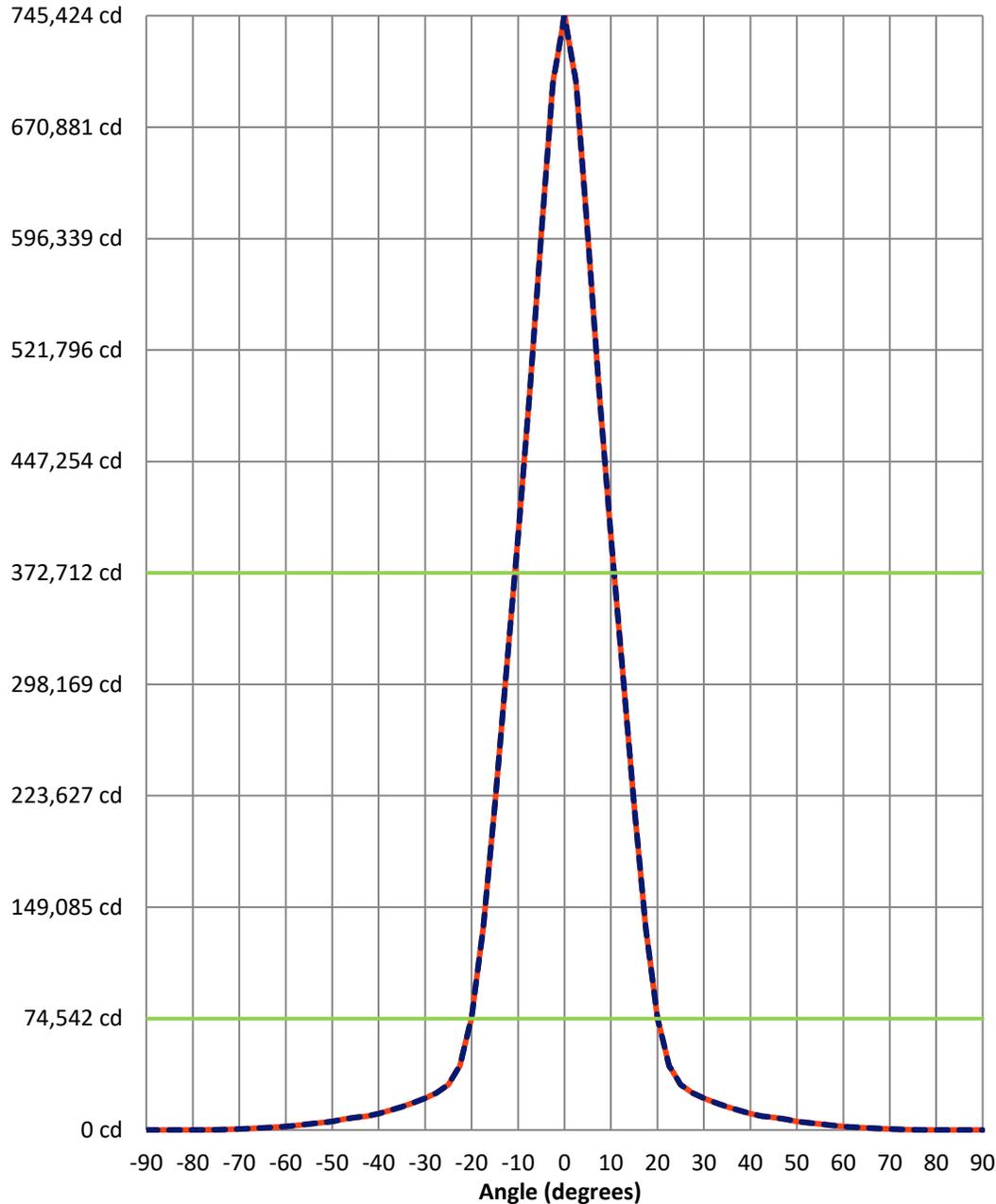
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CATALOG NUMBER: EPH-LS12-1000R-40-80-2S-HEG

### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 21.4°  
 V Angle: 21.4°  
 Lumens: 51283.8  
 Efficiency: 35.0%

**Field:**  
 H Angle: 40.1°  
 V Angle: 40.1°  
 Lumens: 109245.8  
 Efficiency: 74.5%

**Spill:**  
 Lumens: 37407.3  
 Efficiency: 25.5%

— 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	0.6	1.2	1.8	2.4	3.1	3.6	4.2	4.8	5.4	6.0
85°	0.0	1.2	2.5	3.7	4.9	6.1	7.3	8.5	9.6	10.8	11.9
82.5°	0.0	1.8	3.7	5.5	7.3	9.1	10.9	12.7	14.1	14.4	14.6
80°	0.0	2.4	4.9	7.3	9.7	12.1	14.2	14.5	14.8	15.1	15.4
77.5°	0.0	3.1	6.1	9.1	12.1	14.2	14.6	15.0	15.4	15.8	16.8
75°	0.0	3.6	7.3	10.9	14.2	14.6	15.1	15.6	16.3	18.3	20.4
72.5°	0.0	4.2	8.5	12.7	14.5	15.0	15.6	16.6	19.1	21.5	23.8
70°	0.0	4.8	9.6	14.1	14.8	15.4	16.3	19.1	21.8	24.7	30.9
67.5°	0.0	5.4	10.8	14.4	15.1	15.8	18.3	21.5	24.7	31.8	38.7
65°	0.0	6.0	11.9	14.6	15.4	16.8	20.4	23.8	30.9	38.7	49.3
62.5°	0.0	6.5	13.0	14.8	15.7	18.5	22.3	28.3	37.0	47.3	66.4
60°	0.0	7.0	14.1	15.0	16.0	20.1	24.3	33.5	43.0	62.4	83.1
57.5°	0.0	7.6	14.2	15.3	17.2	21.7	28.4	38.7	54.6	77.2	119.9
55°	0.0	8.1	14.4	15.5	18.4	23.2	32.7	43.7	67.4	97.5	165.5
52.5°	0.0	8.6	14.5	15.7	19.6	25.1	36.8	53.9	79.9	137.4	209.9
50°	0.0	9.1	14.6	15.9	20.8	28.4	40.9	64.4	98.5	176.2	275.6
47.5°	0.0	9.5	14.8	16.2	21.9	31.7	45.4	74.6	131.8	213.7	341.9
45°	0.0	10.0	14.9	17.0	23.0	34.8	53.8	84.5	163.8	270.6	405.9
42.5°	0.0	10.4	15.0	17.8	24.0	37.8	61.9	104.0	194.6	325.8	487.4
40°	0.0	10.8	15.1	18.5	25.6	40.6	69.6	129.7	229.6	378.6	568.6
37.5°	0.0	11.2	15.2	19.2	27.8	43.3	76.9	154.1	274.2	434.2	646.1
35°	0.0	11.5	15.3	19.9	29.8	48.0	83.8	177.2	316.3	500.0	729.0
32.5°	0.0	11.9	15.4	20.5	31.8	53.4	93.9	198.9	356.0	562.0	821.5
30°	0.0	12.2	15.5	21.1	33.6	58.4	111.2	222.1	393.2	620.1	908.2
27.5°	0.0	12.5	15.6	21.6	35.2	63.1	127.3	252.2	432.7	674.1	988.9
25°	0.0	12.8	15.6	22.1	36.8	67.4	142.2	279.8	476.6	734.8	1063.6
22.5°	0.0	13.0	15.7	22.5	38.1	71.3	155.7	305.1	516.7	795.5	1136.3
20°	0.0	13.2	15.8	23.0	39.4	74.9	167.9	327.8	552.9	850.2	1202.0
17.5°	0.0	13.4	15.8	23.3	40.5	78.0	178.7	348.0	585.0	898.9	1260.4
15°	0.0	13.6	15.9	23.6	41.5	80.8	188.1	365.6	613.1	941.3	1311.4
12.5°	0.0	13.8	15.9	23.9	42.3	83.1	196.2	380.6	636.9	977.5	1354.8
10°	0.0	13.9	15.9	24.1	43.0	85.0	202.7	392.9	656.5	1007.2	1390.5
7.5°	0.0	14.0	16.0	24.3	43.5	86.5	207.9	402.5	671.8	1030.4	1418.4
5°	0.0	14.0	16.0	24.4	43.9	87.5	211.6	409.4	682.7	1047.0	1438.4
2.5°	0.0	14.1	16.0	24.5	44.1	88.2	213.8	413.5	689.3	1057.0	1450.4
0°	0.0	14.1	16.0	24.5	44.2	88.4	214.5	414.9	691.5	1060.3	1454.4
-2.5°	0.0	14.1	16.0	24.5	44.1	88.2	213.8	413.5	689.3	1057.0	1450.4
-5°	0.0	14.0	16.0	24.4	43.9	87.5	211.6	409.4	682.7	1047.0	1438.4
-7.5°	0.0	14.0	16.0	24.3	43.5	86.5	207.9	402.5	671.8	1030.4	1418.4
-10°	0.0	13.9	15.9	24.1	43.0	85.0	202.7	392.9	656.5	1007.2	1390.5
-12.5°	0.0	13.8	15.9	23.9	42.3	83.1	196.2	380.6	636.9	977.5	1354.8
-15°	0.0	13.6	15.9	23.6	41.5	80.8	188.1	365.6	613.1	941.3	1311.4
-17.5°	0.0	13.4	15.8	23.3	40.5	78.0	178.7	348.0	585.0	898.9	1260.4
-20°	0.0	13.2	15.8	23.0	39.4	74.9	167.9	327.8	552.9	850.2	1202.0



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 CATALOG NUMBER: EPH-LS12-1000R-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	13.0	15.7	22.5	38.1	71.3	155.7	305.1	516.7	795.5	1136.3
-25°	0.0	12.8	15.6	22.1	36.8	67.4	142.2	279.8	476.6	734.8	1063.6
-27.5°	0.0	12.5	15.6	21.6	35.2	63.1	127.3	252.2	432.7	674.1	988.9
-30°	0.0	12.2	15.5	21.1	33.6	58.4	111.2	222.1	393.2	620.1	908.2
-32.5°	0.0	11.9	15.4	20.5	31.8	53.4	93.9	198.9	356.0	562.0	821.5
-35°	0.0	11.5	15.3	19.9	29.8	48.0	83.8	177.2	316.3	500.0	729.0
-37.5°	0.0	11.2	15.2	19.2	27.8	43.3	76.9	154.1	274.2	434.2	646.1
-40°	0.0	10.8	15.1	18.5	25.6	40.6	69.6	129.7	229.6	378.6	568.6
-42.5°	0.0	10.4	15.0	17.8	24.0	37.8	61.9	104.0	194.6	325.8	487.4
-45°	0.0	10.0	14.9	17.0	23.0	34.8	53.8	84.5	163.8	270.6	405.9
-47.5°	0.0	9.5	14.8	16.2	21.9	31.7	45.4	74.6	131.8	213.7	341.9
-50°	0.0	9.1	14.6	15.9	20.8	28.4	40.9	64.4	98.5	176.2	275.6
-52.5°	0.0	8.6	14.5	15.7	19.6	25.1	36.8	53.9	79.9	137.4	209.9
-55°	0.0	8.1	14.4	15.5	18.4	23.2	32.7	43.7	67.4	97.5	165.5
-57.5°	0.0	7.6	14.2	15.3	17.2	21.7	28.4	38.7	54.6	77.2	119.9
-60°	0.0	7.0	14.1	15.0	16.0	20.1	24.3	33.5	43.0	62.4	83.1
-62.5°	0.0	6.5	13.0	14.8	15.7	18.5	22.3	28.3	37.0	47.3	66.4
-65°	0.0	6.0	11.9	14.6	15.4	16.8	20.4	23.8	30.9	38.7	49.3
-67.5°	0.0	5.4	10.8	14.4	15.1	15.8	18.3	21.5	24.7	31.8	38.7
-70°	0.0	4.8	9.6	14.1	14.8	15.4	16.3	19.1	21.8	24.7	30.9
-72.5°	0.0	4.2	8.5	12.7	14.5	15.0	15.6	16.6	19.1	21.5	23.8
-75°	0.0	3.6	7.3	10.9	14.2	14.6	15.1	15.6	16.3	18.3	20.4
-77.5°	0.0	3.1	6.1	9.1	12.1	14.2	14.6	15.0	15.4	15.8	16.8
-80°	0.0	2.4	4.9	7.3	9.7	12.1	14.2	14.5	14.8	15.1	15.4
-82.5°	0.0	1.8	3.7	5.5	7.3	9.1	10.9	12.7	14.1	14.4	14.6
-85°	0.0	1.2	2.5	3.7	4.9	6.1	7.3	8.5	9.6	10.8	11.9
-87.5°	0.0	0.6	1.2	1.8	2.4	3.1	3.6	4.2	4.8	5.4	6.0
-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°	6.5	7.0	7.6	8.1	8.6	9.1	9.5	10.0	10.4	10.8	11.2
85°	13.0	14.1	14.2	14.4	14.5	14.6	14.8	14.9	15.0	15.1	15.2
82.5°	14.8	15.0	15.3	15.5	15.7	15.9	16.2	17.0	17.8	18.5	19.2
80°	15.7	16.0	17.2	18.4	19.6	20.8	21.9	23.0	24.0	25.6	27.8
77.5°	18.5	20.1	21.7	23.2	25.1	28.4	31.7	34.8	37.8	40.6	43.3
75°	22.3	24.3	28.4	32.7	36.8	40.9	45.4	53.8	61.9	69.6	76.9
72.5°	28.3	33.5	38.7	43.7	53.9	64.4	74.6	84.5	104.0	129.7	154.1
70°	37.0	43.0	54.6	67.4	79.9	98.5	131.8	163.8	194.6	229.6	274.2
67.5°	47.3	62.4	77.2	97.5	137.4	176.2	213.7	270.6	325.8	378.6	434.2
65°	66.4	83.1	119.9	165.5	209.9	275.6	341.9	405.9	487.4	568.6	646.1
62.5°	85.1	131.2	182.5	243.2	320.8	396.1	489.8	587.1	680.8	797.0	911.2
60°	131.2	188.1	261.3	348.0	439.3	552.9	663.0	795.5	932.2	1063.6	1197.5
57.5°	182.5	261.3	357.2	464.7	591.0	721.6	880.9	1035.1	1192.2	1344.9	1492.6
55°	243.2	348.0	464.7	603.8	755.9	932.7	1107.5	1285.3	1457.2	1630.3	1796.0
52.5°	320.8	439.3	591.0	755.9	950.0	1144.7	1341.7	1536.5	1730.0	1928.3	2150.3
50°	396.1	552.9	721.6	932.7	1144.7	1360.5	1576.4	1790.4	2029.2	2277.4	2583.2
47.5°	489.8	663.0	880.9	1107.5	1341.7	1576.4	1810.6	2080.0	2354.4	2738.5	3120.3
45°	587.1	795.5	1035.1	1285.3	1536.5	1790.4	2080.0	2380.2	2816.7	3255.7	3736.3
42.5°	680.8	932.2	1192.2	1457.2	1730.0	2029.2	2354.4	2816.7	3302.7	3831.8	4319.1
40°	797.0	1063.6	1344.9	1630.3	1928.3	2277.4	2738.5	3255.7	3831.8	4363.8	4861.0
37.5°	911.2	1197.5	1492.6	1796.0	2150.3	2583.2	3120.3	3736.3	4319.1	4861.0	5411.6
35°	1019.7	1324.9	1638.1	1974.9	2362.1	2924.3	3546.9	4185.6	4769.9	5362.6	6084.6
32.5°	1126.4	1445.2	1775.9	2160.8	2654.1	3266.7	3957.9	4589.4	5216.7	5909.4	6982.7
30°	1229.1	1563.3	1914.7	2335.9	2938.0	3628.3	4322.7	4976.6	5646.8	6714.7	7700.4
27.5°	1324.9	1673.7	2064.9	2558.8	3213.8	3967.3	4658.1	5355.0	6274.2	7428.9	8306.8
25°	1413.3	1775.9	2204.0	2785.9	3504.9	4263.7	4974.6	5708.1	6939.9	7961.2	8770.7
22.5°	1496.0	1869.9	2331.4	2994.2	3772.4	4529.9	5276.8	6242.2	7488.4	8449.7	9174.6
20°	1572.6	1974.9	2479.8	3189.3	4015.1	4771.8	5552.0	6763.9	7908.3	8794.4	9776.6
17.5°	1640.7	2068.5	2633.8	3388.2	4217.4	4993.5	5828.9	7232.5	8286.2	9105.2	10429.6
15°	1700.3	2150.3	2768.5	3562.4	4391.9	5193.0	6209.2	7554.8	8574.9	9454.6	11014.2
12.5°	1751.0	2220.0	2883.4	3711.1	4541.1	5363.7	6535.0	7818.8	8793.0	9915.2	11680.3
10°	1792.7	2277.4	2978.1	3833.7	4664.2	5504.8	6804.5	8037.4	8974.0	10297.9	12235.0
7.5°	1825.3	2322.2	3052.1	3929.7	4760.6	5615.3	7015.9	8209.1	9116.3	10599.3	12672.8
5°	1848.7	2354.4	3105.2	3998.5	4829.8	5694.7	7167.9	8332.7	9218.9	10816.8	12989.0
2.5°	1862.7	2373.7	3137.1	4040.0	4871.5	5742.5	7259.5	8407.2	9280.7	10948.1	13180.2
0°	1867.4	2380.2	3147.8	4053.8	4885.4	5758.5	7290.1	8432.1	9301.4	10992.0	13244.2
-2.5°	1862.7	2373.7	3137.1	4040.0	4871.5	5742.5	7259.5	8407.2	9280.7	10948.1	13180.2
-5°	1848.7	2354.4	3105.2	3998.5	4829.8	5694.7	7167.9	8332.7	9218.9	10816.8	12989.0
-7.5°	1825.3	2322.2	3052.1	3929.7	4760.6	5615.3	7015.9	8209.1	9116.3	10599.3	12672.8
-10°	1792.7	2277.4	2978.1	3833.7	4664.2	5504.8	6804.5	8037.4	8974.0	10297.9	12235.0
-12.5°	1751.0	2220.0	2883.4	3711.1	4541.1	5363.7	6535.0	7818.8	8793.0	9915.2	11680.3
-15°	1700.3	2150.3	2768.5	3562.4	4391.9	5193.0	6209.2	7554.8	8574.9	9454.6	11014.2
-17.5°	1640.7	2068.5	2633.8	3388.2	4217.4	4993.5	5828.9	7232.5	8286.2	9105.2	10429.6
-20°	1572.6	1974.9	2479.8	3189.3	4015.1	4771.8	5552.0	6763.9	7908.3	8794.4	9776.6



REPORT NUMBER: P1212091 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1496.0	1869.9	2331.4	2994.2	3772.4	4529.9	5276.8	6242.2	7488.4	8449.7	9174.6
-25°	1413.3	1775.9	2204.0	2785.9	3504.9	4263.7	4974.6	5708.1	6939.9	7961.2	8770.7
-27.5°	1324.9	1673.7	2064.9	2558.8	3213.8	3967.3	4658.1	5355.0	6274.2	7428.9	8306.8
-30°	1229.1	1563.3	1914.7	2335.9	2938.0	3628.3	4322.7	4976.6	5646.8	6714.7	7700.4
-32.5°	1126.4	1445.2	1775.9	2160.8	2654.1	3266.7	3957.9	4589.4	5216.7	5909.4	6982.7
-35°	1019.7	1324.9	1638.1	1974.9	2362.1	2924.3	3546.9	4185.6	4769.9	5362.6	6084.6
-37.5°	911.2	1197.5	1492.6	1796.0	2150.3	2583.2	3120.3	3736.3	4319.1	4861.0	5411.6
-40°	797.0	1063.6	1344.9	1630.3	1928.3	2277.4	2738.5	3255.7	3831.8	4363.8	4861.0
-42.5°	680.8	932.2	1192.2	1457.2	1730.0	2029.2	2354.4	2816.7	3302.7	3831.8	4319.1
-45°	587.1	795.5	1035.1	1285.3	1536.5	1790.4	2080.0	2380.2	2816.7	3255.7	3736.3
-47.5°	489.8	663.0	880.9	1107.5	1341.7	1576.4	1810.6	2080.0	2354.4	2738.5	3120.3
-50°	396.1	552.9	721.6	932.7	1144.7	1360.5	1576.4	1790.4	2029.2	2277.4	2583.2
-52.5°	320.8	439.3	591.0	755.9	950.0	1144.7	1341.7	1536.5	1730.0	1928.3	2150.3
-55°	243.2	348.0	464.7	603.8	755.9	932.7	1107.5	1285.3	1457.2	1630.3	1796.0
-57.5°	182.5	261.3	357.2	464.7	591.0	721.6	880.9	1035.1	1192.2	1344.9	1492.6
-60°	131.2	188.1	261.3	348.0	439.3	552.9	663.0	795.5	932.2	1063.6	1197.5
-62.5°	85.1	131.2	182.5	243.2	320.8	396.1	489.8	587.1	680.8	797.0	911.2
-65°	66.4	83.1	119.9	165.5	209.9	275.6	341.9	405.9	487.4	568.6	646.1
-67.5°	47.3	62.4	77.2	97.5	137.4	176.2	213.7	270.6	325.8	378.6	434.2
-70°	37.0	43.0	54.6	67.4	79.9	98.5	131.8	163.8	194.6	229.6	274.2
-72.5°	28.3	33.5	38.7	43.7	53.9	64.4	74.6	84.5	104.0	129.7	154.1
-75°	22.3	24.3	28.4	32.7	36.8	40.9	45.4	53.8	61.9	69.6	76.9
-77.5°	18.5	20.1	21.7	23.2	25.1	28.4	31.7	34.8	37.8	40.6	43.3
-80°	15.7	16.0	17.2	18.4	19.6	20.8	21.9	23.0	24.0	25.6	27.8
-82.5°	14.8	15.0	15.3	15.5	15.7	15.9	16.2	17.0	17.8	18.5	19.2
-85°	13.0	14.1	14.2	14.4	14.5	14.6	14.8	14.9	15.0	15.1	15.2
-87.5°	6.5	7.0	7.6	8.1	8.6	9.1	9.5	10.0	10.4	10.8	11.2
-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):**

	-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°	11.5	11.9	12.2	12.5	12.8	13.0	13.2	13.4	13.6	13.8	13.9
85°	15.3	15.4	15.5	15.6	15.6	15.7	15.8	15.8	15.9	15.9	15.9
82.5°	19.9	20.5	21.1	21.6	22.1	22.5	23.0	23.3	23.6	23.9	24.1
80°	29.8	31.8	33.6	35.2	36.8	38.1	39.4	40.5	41.5	42.3	43.0
77.5°	48.0	53.4	58.4	63.1	67.4	71.3	74.9	78.0	80.8	83.1	85.0
75°	83.8	93.9	111.2	127.3	142.2	155.7	167.9	178.7	188.1	196.2	202.7
72.5°	177.2	198.9	222.1	252.2	279.8	305.1	327.8	348.0	365.6	380.6	392.9
70°	316.3	356.0	393.2	432.7	476.6	516.7	552.9	585.0	613.1	636.9	656.5
67.5°	500.0	562.0	620.1	674.1	734.8	795.5	850.2	898.9	941.3	977.5	1007.2
65°	729.0	821.5	908.2	988.9	1063.6	1136.3	1202.0	1260.4	1311.4	1354.8	1390.5
62.5°	1019.7	1126.4	1229.1	1324.9	1413.3	1496.0	1572.6	1640.7	1700.3	1751.0	1792.7
60°	1324.9	1445.2	1563.3	1673.7	1775.9	1869.9	1974.9	2068.5	2150.3	2220.0	2277.4
57.5°	1638.1	1775.9	1914.7	2064.9	2204.0	2331.4	2479.8	2633.8	2768.5	2883.4	2978.1
55°	1974.9	2160.8	2335.9	2558.8	2785.9	2994.2	3189.3	3388.2	3562.4	3711.1	3833.7
52.5°	2362.1	2654.1	2938.0	3213.8	3504.9	3772.4	4015.1	4217.4	4391.9	4541.1	4664.2
50°	2924.3	3266.7	3628.3	3967.3	4263.7	4529.9	4771.8	4993.5	5193.0	5363.7	5504.8
47.5°	3546.9	3957.9	4322.7	4658.1	4974.6	5276.8	5552.0	5828.9	6209.2	6535.0	6804.5
45°	4185.6	4589.4	4976.6	5355.0	5708.1	6242.2	6763.9	7232.5	7554.8	7818.8	8037.4
42.5°	4769.9	5216.7	5646.8	6274.2	6939.9	7488.4	7908.3	8286.2	8574.9	8793.0	8974.0
40°	5362.6	5909.4	6714.7	7428.9	7961.2	8449.7	8794.4	9105.2	9454.6	9915.2	10297.9
37.5°	6084.6	6982.7	7700.4	8306.8	8770.7	9174.6	9776.6	10429.6	11014.2	11680.3	12235.0
35°	7072.7	7837.7	8497.0	8989.1	9596.6	10439.3	11290.7	12230.0	13065.4	13802.3	14421.1
32.5°	7837.7	8550.9	9099.7	9927.5	10891.4	12061.0	13174.3	14211.4	15138.7	16019.7	16823.6
30°	8497.0	9099.7	10038.8	11163.3	12532.6	13834.7	15060.7	16302.8	17500.3	18566.8	19521.2
27.5°	8989.1	9927.5	11163.3	12691.4	14171.2	15588.2	17157.2	18625.7	20037.4	21275.7	22558.8
25°	9596.6	10891.4	12532.6	14171.2	15797.8	17592.7	19362.0	21054.3	22886.0	24548.1	26454.9
22.5°	10439.3	12061.0	13834.7	15588.2	17592.7	19610.9	21641.4	23885.5	26416.2	29123.2	32872.4
20°	11290.7	13174.3	15060.7	17157.2	19362.0	21641.4	24224.5	27476.1	31341.5	38358.2	46199.5
17.5°	12230.0	14211.4	16302.8	18625.7	21054.3	23885.5	27476.1	32682.7	41202.3	57459.3	74321.7
15°	13065.4	15138.7	17500.3	20037.4	22886.0	26416.2	31341.5	41202.3	61321.4	88882.1	124049.2
12.5°	13802.3	16019.7	18566.8	21275.7	24548.1	29123.2	38358.2	57459.3	88882.1	132590.5	185640.0
10°	14421.1	16823.6	19521.2	22558.8	26454.9	32872.4	46199.5	74321.7	124049.2	185640.0	249495.8
7.5°	14910.6	17461.3	20280.7	23585.3	28141.5	37295.5	58557.0	99416.8	160298.0	233482.9	308472.8
5°	15264.8	17923.7	20833.1	24334.4	29377.7	40556.3	67737.8	118906.1	191032.3	273376.1	356053.6
2.5°	15479.2	18204.1	21168.7	24790.5	30132.9	42556.8	73403.0	131030.8	210383.5	298870.5	386364.0
0°	15551.0	18298.0	21281.2	24943.7	30387.0	43231.3	75319.2	135150.5	217003.4	307646.5	396937.6
-2.5°	15479.2	18204.1	21168.7	24790.5	30132.9	42556.8	73403.0	131030.8	210383.5	298870.5	386364.0
-5°	15264.8	17923.7	20833.1	24334.4	29377.7	40556.3	67737.8	118906.1	191032.3	273376.1	356053.6
-7.5°	14910.6	17461.3	20280.7	23585.3	28141.5	37295.5	58557.0	99416.8	160298.0	233482.9	308472.8
-10°	14421.1	16823.6	19521.2	22558.8	26454.9	32872.4	46199.5	74321.7	124049.2	185640.0	249495.8
-12.5°	13802.3	16019.7	18566.8	21275.7	24548.1	29123.2	38358.2	57459.3	88882.1	132590.5	185640.0
-15°	13065.4	15138.7	17500.3	20037.4	22886.0	26416.2	31341.5	41202.3	61321.4	88882.1	124049.2
-17.5°	12230.0	14211.4	16302.8	18625.7	21054.3	23885.5	27476.1	32682.7	41202.3	57459.3	74321.7
-20°	11290.7	13174.3	15060.7	17157.2	19362.0	21641.4	24224.5	27476.1	31341.5	38358.2	46199.5



REPORT NUMBER: P1212091 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	10439.3	12061.0	13834.7	15588.2	17592.7	19610.9	21641.4	23885.5	26416.2	29123.2	32872.4
-25°	9596.6	10891.4	12532.6	14171.2	15797.8	17592.7	19362.0	21054.3	22886.0	24548.1	26454.9
-27.5°	8989.1	9927.5	11163.3	12691.4	14171.2	15588.2	17157.2	18625.7	20037.4	21275.7	22558.8
-30°	8497.0	9099.7	10038.8	11163.3	12532.6	13834.7	15060.7	16302.8	17500.3	18566.8	19521.2
-32.5°	7837.7	8550.9	9099.7	9927.5	10891.4	12061.0	13174.3	14211.4	15138.7	16019.7	16823.6
-35°	7072.7	7837.7	8497.0	8989.1	9596.6	10439.3	11290.7	12230.0	13065.4	13802.3	14421.1
-37.5°	6084.6	6982.7	7700.4	8306.8	8770.7	9174.6	9776.6	10429.6	11014.2	11680.3	12235.0
-40°	5362.6	5909.4	6714.7	7428.9	7961.2	8449.7	8794.4	9105.2	9454.6	9915.2	10297.9
-42.5°	4769.9	5216.7	5646.8	6274.2	6939.9	7488.4	7908.3	8286.2	8574.9	8793.0	8974.0
-45°	4185.6	4589.4	4976.6	5355.0	5708.1	6242.2	6763.9	7232.5	7554.8	7818.8	8037.4
-47.5°	3546.9	3957.9	4322.7	4658.1	4974.6	5276.8	5552.0	5828.9	6209.2	6535.0	6804.5
-50°	2924.3	3266.7	3628.3	3967.3	4263.7	4529.9	4771.8	4993.5	5193.0	5363.7	5504.8
-52.5°	2362.1	2654.1	2938.0	3213.8	3504.9	3772.4	4015.1	4217.4	4391.9	4541.1	4664.2
-55°	1974.9	2160.8	2335.9	2558.8	2785.9	2994.2	3189.3	3388.2	3562.4	3711.1	3833.7
-57.5°	1638.1	1775.9	1914.7	2064.9	2204.0	2331.4	2479.8	2633.8	2768.5	2883.4	2978.1
-60°	1324.9	1445.2	1563.3	1673.7	1775.9	1869.9	1974.9	2068.5	2150.3	2220.0	2277.4
-62.5°	1019.7	1126.4	1229.1	1324.9	1413.3	1496.0	1572.6	1640.7	1700.3	1751.0	1792.7
-65°	729.0	821.5	908.2	988.9	1063.6	1136.3	1202.0	1260.4	1311.4	1354.8	1390.5
-67.5°	500.0	562.0	620.1	674.1	734.8	795.5	850.2	898.9	941.3	977.5	1007.2
-70°	316.3	356.0	393.2	432.7	476.6	516.7	552.9	585.0	613.1	636.9	656.5
-72.5°	177.2	198.9	222.1	252.2	279.8	305.1	327.8	348.0	365.6	380.6	392.9
-75°	83.8	93.9	111.2	127.3	142.2	155.7	167.9	178.7	188.1	196.2	202.7
-77.5°	48.0	53.4	58.4	63.1	67.4	71.3	74.9	78.0	80.8	83.1	85.0
-80°	29.8	31.8	33.6	35.2	36.8	38.1	39.4	40.5	41.5	42.3	43.0
-82.5°	19.9	20.5	21.1	21.6	22.1	22.5	23.0	23.3	23.6	23.9	24.1
-85°	15.3	15.4	15.5	15.6	15.6	15.7	15.8	15.8	15.9	15.9	15.9
-87.5°	11.5	11.9	12.2	12.5	12.8	13.0	13.2	13.4	13.6	13.8	13.9
-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: P1212091 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-100R-40-80-2S-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°	14.0	14.0	14.1	14.1	14.1	14.0	14.0	13.9	13.8	13.6	13.4
85°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	15.9	15.9	15.9	15.8
82.5°	24.3	24.4	24.5	24.5	24.5	24.4	24.3	24.1	23.9	23.6	23.3
80°	43.5	43.9	44.1	44.2	44.1	43.9	43.5	43.0	42.3	41.5	40.5
77.5°	86.5	87.5	88.2	88.4	88.2	87.5	86.5	85.0	83.1	80.8	78.0
75°	207.9	211.6	213.8	214.5	213.8	211.6	207.9	202.7	196.2	188.1	178.7
72.5°	402.5	409.4	413.5	414.9	413.5	409.4	402.5	392.9	380.6	365.6	348.0
70°	671.8	682.7	689.3	691.5	689.3	682.7	671.8	656.5	636.9	613.1	585.0
67.5°	1030.4	1047.0	1057.0	1060.3	1057.0	1047.0	1030.4	1007.2	977.5	941.3	898.9
65°	1418.4	1438.4	1450.4	1454.4	1450.4	1438.4	1418.4	1390.5	1354.8	1311.4	1260.4
62.5°	1825.3	1848.7	1862.7	1867.4	1862.7	1848.7	1825.3	1792.7	1751.0	1700.3	1640.7
60°	2322.2	2354.4	2373.7	2380.2	2373.7	2354.4	2322.2	2277.4	2220.0	2150.3	2068.5
57.5°	3052.1	3105.2	3137.1	3147.8	3137.1	3105.2	3052.1	2978.1	2883.4	2768.5	2633.8
55°	3929.7	3998.5	4040.0	4053.8	4040.0	3998.5	3929.7	3833.7	3711.1	3562.4	3388.2
52.5°	4760.6	4829.8	4871.5	4885.4	4871.5	4829.8	4760.6	4664.2	4541.1	4391.9	4217.4
50°	5615.3	5694.7	5742.5	5758.5	5742.5	5694.7	5615.3	5504.8	5363.7	5193.0	4993.5
47.5°	7015.9	7167.9	7259.5	7290.1	7259.5	7167.9	7015.9	6804.5	6535.0	6209.2	5828.9
45°	8209.1	8332.7	8407.2	8432.1	8407.2	8332.7	8209.1	8037.4	7818.8	7554.8	7232.5
42.5°	9116.3	9218.9	9280.7	9301.4	9280.7	9218.9	9116.3	8974.0	8793.0	8574.9	8286.2
40°	10599.3	10816.8	10948.1	10992.0	10948.1	10816.8	10599.3	10297.9	9915.2	9454.6	9105.2
37.5°	12672.8	12989.0	13180.2	13244.2	13180.2	12989.0	12672.8	12235.0	11680.3	11014.2	10429.6
35°	14910.6	15264.8	15479.2	15551.0	15479.2	15264.8	14910.6	14421.1	13802.3	13065.4	12230.0
32.5°	17461.3	17923.7	18204.1	18298.0	18204.1	17923.7	17461.3	16823.6	16019.7	15138.7	14211.4
30°	20280.7	20833.1	21168.7	21281.2	21168.7	20833.1	20280.7	19521.2	18566.8	17500.3	16302.8
27.5°	23585.3	24334.4	24790.5	24943.7	24790.5	24334.4	23585.3	22558.8	21275.7	20037.4	18625.7
25°	28141.5	29377.7	30132.9	30387.0	30132.9	29377.7	28141.5	26454.9	24548.1	22886.0	21054.3
22.5°	37295.5	40556.3	42556.8	43231.3	42556.8	40556.3	37295.5	32872.4	29123.2	26416.2	23885.5
20°	58557.0	67737.8	73403.0	75319.2	73403.0	67737.8	58557.0	46199.5	38358.2	31341.5	27476.1
17.5°	99416.8	118906.1	131030.8	135150.5	131030.8	118906.1	99416.8	74321.7	57459.3	41202.3	32682.7
15°	160298.0	191032.3	210383.5	217003.4	210383.5	191032.3	160298.0	124049.2	88882.1	61321.4	41202.3
12.5°	233482.9	273376.1	298870.5	307646.5	298870.5	273376.1	233482.9	185640.0	132590.5	88882.1	57459.3
10°	308472.8	356053.6	386364.0	396937.6	386364.0	356053.6	308472.8	249495.8	185640.0	124049.2	74321.7
7.5°	376413.1	433802.6	476902.5	492844.3	476902.5	433802.6	376413.1	308472.8	233482.9	160298.0	99416.8
5°	433802.6	509971.2	573594.7	599268.7	573594.7	509971.2	433802.6	356053.6	273376.1	191032.3	118906.1
2.5°	476902.5	573594.7	661081.9	700301.7	661081.9	573594.7	476902.5	386364.0	298870.5	210383.5	131030.8
0°	492844.3	599268.7	700301.7	745423.5	700301.7	599268.7	492844.3	396937.6	307646.5	217003.4	135150.5
-2.5°	476902.5	573594.7	661081.9	700301.7	661081.9	573594.7	476902.5	386364.0	298870.5	210383.5	131030.8
-5°	433802.6	509971.2	573594.7	599268.7	573594.7	509971.2	433802.6	356053.6	273376.1	191032.3	118906.1
-7.5°	376413.1	433802.6	476902.5	492844.3	476902.5	433802.6	376413.1	308472.8	233482.9	160298.0	99416.8
-10°	308472.8	356053.6	386364.0	396937.6	386364.0	356053.6	308472.8	249495.8	185640.0	124049.2	74321.7
-12.5°	233482.9	273376.1	298870.5	307646.5	298870.5	273376.1	233482.9	185640.0	132590.5	88882.1	57459.3
-15°	160298.0	191032.3	210383.5	217003.4	210383.5	191032.3	160298.0	124049.2	88882.1	61321.4	41202.3
-17.5°	99416.8	118906.1	131030.8	135150.5	131030.8	118906.1	99416.8	74321.7	57459.3	41202.3	32682.7
-20°	58557.0	67737.8	73403.0	75319.2	73403.0	67737.8	58557.0	46199.5	38358.2	31341.5	27476.1



REPORT NUMBER: P1212091 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	37295.5	40556.3	42556.8	43231.3	42556.8	40556.3	37295.5	32872.4	29123.2	26416.2	23885.5
-25°	28141.5	29377.7	30132.9	30387.0	30132.9	29377.7	28141.5	26454.9	24548.1	22886.0	21054.3
-27.5°	23585.3	24334.4	24790.5	24943.7	24790.5	24334.4	23585.3	22558.8	21275.7	20037.4	18625.7
-30°	20280.7	20833.1	21168.7	21281.2	21168.7	20833.1	20280.7	19521.2	18566.8	17500.3	16302.8
-32.5°	17461.3	17923.7	18204.1	18298.0	18204.1	17923.7	17461.3	16823.6	16019.7	15138.7	14211.4
-35°	14910.6	15264.8	15479.2	15551.0	15479.2	15264.8	14910.6	14421.1	13802.3	13065.4	12230.0
-37.5°	12672.8	12989.0	13180.2	13244.2	13180.2	12989.0	12672.8	12235.0	11680.3	11014.2	10429.6
-40°	10599.3	10816.8	10948.1	10992.0	10948.1	10816.8	10599.3	10297.9	9915.2	9454.6	9105.2
-42.5°	9116.3	9218.9	9280.7	9301.4	9280.7	9218.9	9116.3	8974.0	8793.0	8574.9	8286.2
-45°	8209.1	8332.7	8407.2	8432.1	8407.2	8332.7	8209.1	8037.4	7818.8	7554.8	7232.5
-47.5°	7015.9	7167.9	7259.5	7290.1	7259.5	7167.9	7015.9	6804.5	6535.0	6209.2	5828.9
-50°	5615.3	5694.7	5742.5	5758.5	5742.5	5694.7	5615.3	5504.8	5363.7	5193.0	4993.5
-52.5°	4760.6	4829.8	4871.5	4885.4	4871.5	4829.8	4760.6	4664.2	4541.1	4391.9	4217.4
-55°	3929.7	3998.5	4040.0	4053.8	4040.0	3998.5	3929.7	3833.7	3711.1	3562.4	3388.2
-57.5°	3052.1	3105.2	3137.1	3147.8	3137.1	3105.2	3052.1	2978.1	2883.4	2768.5	2633.8
-60°	2322.2	2354.4	2373.7	2380.2	2373.7	2354.4	2322.2	2277.4	2220.0	2150.3	2068.5
-62.5°	1825.3	1848.7	1862.7	1867.4	1862.7	1848.7	1825.3	1792.7	1751.0	1700.3	1640.7
-65°	1418.4	1438.4	1450.4	1454.4	1450.4	1438.4	1418.4	1390.5	1354.8	1311.4	1260.4
-67.5°	1030.4	1047.0	1057.0	1060.3	1057.0	1047.0	1030.4	1007.2	977.5	941.3	898.9
-70°	671.8	682.7	689.3	691.5	689.3	682.7	671.8	656.5	636.9	613.1	585.0
-72.5°	402.5	409.4	413.5	414.9	413.5	409.4	402.5	392.9	380.6	365.6	348.0
-75°	207.9	211.6	213.8	214.5	213.8	211.6	207.9	202.7	196.2	188.1	178.7
-77.5°	86.5	87.5	88.2	88.4	88.2	87.5	86.5	85.0	83.1	80.8	78.0
-80°	43.5	43.9	44.1	44.2	44.1	43.9	43.5	43.0	42.3	41.5	40.5
-82.5°	24.3	24.4	24.5	24.5	24.5	24.4	24.3	24.1	23.9	23.6	23.3
-85°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	15.9	15.9	15.9	15.8
-87.5°	14.0	14.0	14.1	14.1	14.1	14.0	14.0	13.9	13.8	13.6	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



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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°	13.2	13.0	12.8	12.5	12.2	11.9	11.5	11.2	10.8	10.4	10.0
85°	15.8	15.7	15.6	15.6	15.5	15.4	15.3	15.2	15.1	15.0	14.9
82.5°	23.0	22.5	22.1	21.6	21.1	20.5	19.9	19.2	18.5	17.8	17.0
80°	39.4	38.1	36.8	35.2	33.6	31.8	29.8	27.8	25.6	24.0	23.0
77.5°	74.9	71.3	67.4	63.1	58.4	53.4	48.0	43.3	40.6	37.8	34.8
75°	167.9	155.7	142.2	127.3	111.2	93.9	83.8	76.9	69.6	61.9	53.8
72.5°	327.8	305.1	279.8	252.2	222.1	198.9	177.2	154.1	129.7	104.0	84.5
70°	552.9	516.7	476.6	432.7	393.2	356.0	316.3	274.2	229.6	194.6	163.8
67.5°	850.2	795.5	734.8	674.1	620.1	562.0	500.0	434.2	378.6	325.8	270.6
65°	1202.0	1136.3	1063.6	988.9	908.2	821.5	729.0	646.1	568.6	487.4	405.9
62.5°	1572.6	1496.0	1413.3	1324.9	1229.1	1126.4	1019.7	911.2	797.0	680.8	587.1
60°	1974.9	1869.9	1775.9	1673.7	1563.3	1445.2	1324.9	1197.5	1063.6	932.2	795.5
57.5°	2479.8	2331.4	2204.0	2064.9	1914.7	1775.9	1638.1	1492.6	1344.9	1192.2	1035.1
55°	3189.3	2994.2	2785.9	2558.8	2335.9	2160.8	1974.9	1796.0	1630.3	1457.2	1285.3
52.5°	4015.1	3772.4	3504.9	3213.8	2938.0	2654.1	2362.1	2150.3	1928.3	1730.0	1536.5
50°	4771.8	4529.9	4263.7	3967.3	3628.3	3266.7	2924.3	2583.2	2277.4	2029.2	1790.4
47.5°	5552.0	5276.8	4974.6	4658.1	4322.7	3957.9	3546.9	3120.3	2738.5	2354.4	2080.0
45°	6763.9	6242.2	5708.1	5355.0	4976.6	4589.4	4185.6	3736.3	3255.7	2816.7	2380.2
42.5°	7908.3	7488.4	6939.9	6274.2	5646.8	5216.7	4769.9	4319.1	3831.8	3302.7	2816.7
40°	8794.4	8449.7	7961.2	7428.9	6714.7	5909.4	5362.6	4861.0	4363.8	3831.8	3255.7
37.5°	9776.6	9174.6	8770.7	8306.8	7700.4	6982.7	6084.6	5411.6	4861.0	4319.1	3736.3
35°	11290.7	10439.3	9596.6	8989.1	8497.0	7837.7	7072.7	6084.6	5362.6	4769.9	4185.6
32.5°	13174.3	12061.0	10891.4	9927.5	9099.7	8550.9	7837.7	6982.7	5909.4	5216.7	4589.4
30°	15060.7	13834.7	12532.6	11163.3	10038.8	9099.7	8497.0	7700.4	6714.7	5646.8	4976.6
27.5°	17157.2	15588.2	14171.2	12691.4	11163.3	9927.5	8989.1	8306.8	7428.9	6274.2	5355.0
25°	19362.0	17592.7	15797.8	14171.2	12532.6	10891.4	9596.6	8770.7	7961.2	6939.9	5708.1
22.5°	21641.4	19610.9	17592.7	15588.2	13834.7	12061.0	10439.3	9174.6	8449.7	7488.4	6242.2
20°	24224.5	21641.4	19362.0	17157.2	15060.7	13174.3	11290.7	9776.6	8794.4	7908.3	6763.9
17.5°	27476.1	23885.5	21054.3	18625.7	16302.8	14211.4	12230.0	10429.6	9105.2	8286.2	7232.5
15°	31341.5	26416.2	22886.0	20037.4	17500.3	15138.7	13065.4	11014.2	9454.6	8574.9	7554.8
12.5°	38358.2	29123.2	24548.1	21275.7	18566.8	16019.7	13802.3	11680.3	9915.2	8793.0	7818.8
10°	46199.5	32872.4	26454.9	22558.8	19521.2	16823.6	14421.1	12235.0	10297.9	8974.0	8037.4
7.5°	58557.0	37295.5	28141.5	23585.3	20280.7	17461.3	14910.6	12672.8	10599.3	9116.3	8209.1
5°	67737.8	40556.3	29377.7	24334.4	20833.1	17923.7	15264.8	12989.0	10816.8	9218.9	8332.7
2.5°	73403.0	42556.8	30132.9	24790.5	21168.7	18204.1	15479.2	13180.2	10948.1	9280.7	8407.2
0°	75319.2	43231.3	30387.0	24943.7	21281.2	18298.0	15551.0	13244.2	10992.0	9301.4	8432.1
-2.5°	73403.0	42556.8	30132.9	24790.5	21168.7	18204.1	15479.2	13180.2	10948.1	9280.7	8407.2
-5°	67737.8	40556.3	29377.7	24334.4	20833.1	17923.7	15264.8	12989.0	10816.8	9218.9	8332.7
-7.5°	58557.0	37295.5	28141.5	23585.3	20280.7	17461.3	14910.6	12672.8	10599.3	9116.3	8209.1
-10°	46199.5	32872.4	26454.9	22558.8	19521.2	16823.6	14421.1	12235.0	10297.9	8974.0	8037.4
-12.5°	38358.2	29123.2	24548.1	21275.7	18566.8	16019.7	13802.3	11680.3	9915.2	8793.0	7818.8
-15°	31341.5	26416.2	22886.0	20037.4	17500.3	15138.7	13065.4	11014.2	9454.6	8574.9	7554.8
-17.5°	27476.1	23885.5	21054.3	18625.7	16302.8	14211.4	12230.0	10429.6	9105.2	8286.2	7232.5
-20°	24224.5	21641.4	19362.0	17157.2	15060.7	13174.3	11290.7	9776.6	8794.4	7908.3	6763.9



REPORT NUMBER: P1212091 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-80-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	21641.4	19610.9	17592.7	15588.2	13834.7	12061.0	10439.3	9174.6	8449.7	7488.4	6242.2
-25°	19362.0	17592.7	15797.8	14171.2	12532.6	10891.4	9596.6	8770.7	7961.2	6939.9	5708.1
-27.5°	17157.2	15588.2	14171.2	12691.4	11163.3	9927.5	8989.1	8306.8	7428.9	6274.2	5355.0
-30°	15060.7	13834.7	12532.6	11163.3	10038.8	9099.7	8497.0	7700.4	6714.7	5646.8	4976.6
-32.5°	13174.3	12061.0	10891.4	9927.5	9099.7	8550.9	7837.7	6982.7	5909.4	5216.7	4589.4
-35°	11290.7	10439.3	9596.6	8989.1	8497.0	7837.7	7072.7	6084.6	5362.6	4769.9	4185.6
-37.5°	9776.6	9174.6	8770.7	8306.8	7700.4	6982.7	6084.6	5411.6	4861.0	4319.1	3736.3
-40°	8794.4	8449.7	7961.2	7428.9	6714.7	5909.4	5362.6	4861.0	4363.8	3831.8	3255.7
-42.5°	7908.3	7488.4	6939.9	6274.2	5646.8	5216.7	4769.9	4319.1	3831.8	3302.7	2816.7
-45°	6763.9	6242.2	5708.1	5355.0	4976.6	4589.4	4185.6	3736.3	3255.7	2816.7	2380.2
-47.5°	5552.0	5276.8	4974.6	4658.1	4322.7	3957.9	3546.9	3120.3	2738.5	2354.4	2080.0
-50°	4771.8	4529.9	4263.7	3967.3	3628.3	3266.7	2924.3	2583.2	2277.4	2029.2	1790.4
-52.5°	4015.1	3772.4	3504.9	3213.8	2938.0	2654.1	2362.1	2150.3	1928.3	1730.0	1536.5
-55°	3189.3	2994.2	2785.9	2558.8	2335.9	2160.8	1974.9	1796.0	1630.3	1457.2	1285.3
-57.5°	2479.8	2331.4	2204.0	2064.9	1914.7	1775.9	1638.1	1492.6	1344.9	1192.2	1035.1
-60°	1974.9	1869.9	1775.9	1673.7	1563.3	1445.2	1324.9	1197.5	1063.6	932.2	795.5
-62.5°	1572.6	1496.0	1413.3	1324.9	1229.1	1126.4	1019.7	911.2	797.0	680.8	587.1
-65°	1202.0	1136.3	1063.6	988.9	908.2	821.5	729.0	646.1	568.6	487.4	405.9
-67.5°	850.2	795.5	734.8	674.1	620.1	562.0	500.0	434.2	378.6	325.8	270.6
-70°	552.9	516.7	476.6	432.7	393.2	356.0	316.3	274.2	229.6	194.6	163.8
-72.5°	327.8	305.1	279.8	252.2	222.1	198.9	177.2	154.1	129.7	104.0	84.5
-75°	167.9	155.7	142.2	127.3	111.2	93.9	83.8	76.9	69.6	61.9	53.8
-77.5°	74.9	71.3	67.4	63.1	58.4	53.4	48.0	43.3	40.6	37.8	34.8
-80°	39.4	38.1	36.8	35.2	33.6	31.8	29.8	27.8	25.6	24.0	23.0
-82.5°	23.0	22.5	22.1	21.6	21.1	20.5	19.9	19.2	18.5	17.8	17.0
-85°	15.8	15.7	15.6	15.6	15.5	15.4	15.3	15.2	15.1	15.0	14.9
-87.5°	13.2	13.0	12.8	12.5	12.2	11.9	11.5	11.2	10.8	10.4	10.0
-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: P1212091 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-80-2S-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°	9.5	9.1	8.6	8.1	7.6	7.0	6.5	6.0	5.4	4.8	4.2
85°	14.8	14.6	14.5	14.4	14.2	14.1	13.0	11.9	10.8	9.6	8.5
82.5°	16.2	15.9	15.7	15.5	15.3	15.0	14.8	14.6	14.4	14.1	12.7
80°	21.9	20.8	19.6	18.4	17.2	16.0	15.7	15.4	15.1	14.8	14.5
77.5°	31.7	28.4	25.1	23.2	21.7	20.1	18.5	16.8	15.8	15.4	15.0
75°	45.4	40.9	36.8	32.7	28.4	24.3	22.3	20.4	18.3	16.3	15.6
72.5°	74.6	64.4	53.9	43.7	38.7	33.5	28.3	23.8	21.5	19.1	16.6
70°	131.8	98.5	79.9	67.4	54.6	43.0	37.0	30.9	24.7	21.8	19.1
67.5°	213.7	176.2	137.4	97.5	77.2	62.4	47.3	38.7	31.8	24.7	21.5
65°	341.9	275.6	209.9	165.5	119.9	83.1	66.4	49.3	38.7	30.9	23.8
62.5°	489.8	396.1	320.8	243.2	182.5	131.2	85.1	66.4	47.3	37.0	28.3
60°	663.0	552.9	439.3	348.0	261.3	188.1	131.2	83.1	62.4	43.0	33.5
57.5°	880.9	721.6	591.0	464.7	357.2	261.3	182.5	119.9	77.2	54.6	38.7
55°	1107.5	932.7	755.9	603.8	464.7	348.0	243.2	165.5	97.5	67.4	43.7
52.5°	1341.7	1144.7	950.0	755.9	591.0	439.3	320.8	209.9	137.4	79.9	53.9
50°	1576.4	1360.5	1144.7	932.7	721.6	552.9	396.1	275.6	176.2	98.5	64.4
47.5°	1810.6	1576.4	1341.7	1107.5	880.9	663.0	489.8	341.9	213.7	131.8	74.6
45°	2080.0	1790.4	1536.5	1285.3	1035.1	795.5	587.1	405.9	270.6	163.8	84.5
42.5°	2354.4	2029.2	1730.0	1457.2	1192.2	932.2	680.8	487.4	325.8	194.6	104.0
40°	2738.5	2277.4	1928.3	1630.3	1344.9	1063.6	797.0	568.6	378.6	229.6	129.7
37.5°	3120.3	2583.2	2150.3	1796.0	1492.6	1197.5	911.2	646.1	434.2	274.2	154.1
35°	3546.9	2924.3	2362.1	1974.9	1638.1	1324.9	1019.7	729.0	500.0	316.3	177.2
32.5°	3957.9	3266.7	2654.1	2160.8	1775.9	1445.2	1126.4	821.5	562.0	356.0	198.9
30°	4322.7	3628.3	2938.0	2335.9	1914.7	1563.3	1229.1	908.2	620.1	393.2	222.1
27.5°	4658.1	3967.3	3213.8	2558.8	2064.9	1673.7	1324.9	988.9	674.1	432.7	252.2
25°	4974.6	4263.7	3504.9	2785.9	2204.0	1775.9	1413.3	1063.6	734.8	476.6	279.8
22.5°	5276.8	4529.9	3772.4	2994.2	2331.4	1869.9	1496.0	1136.3	795.5	516.7	305.1
20°	5552.0	4771.8	4015.1	3189.3	2479.8	1974.9	1572.6	1202.0	850.2	552.9	327.8
17.5°	5828.9	4993.5	4217.4	3388.2	2633.8	2068.5	1640.7	1260.4	898.9	585.0	348.0
15°	6209.2	5193.0	4391.9	3562.4	2768.5	2150.3	1700.3	1311.4	941.3	613.1	365.6
12.5°	6535.0	5363.7	4541.1	3711.1	2883.4	2220.0	1751.0	1354.8	977.5	636.9	380.6
10°	6804.5	5504.8	4664.2	3833.7	2978.1	2277.4	1792.7	1390.5	1007.2	656.5	392.9
7.5°	7015.9	5615.3	4760.6	3929.7	3052.1	2322.2	1825.3	1418.4	1030.4	671.8	402.5
5°	7167.9	5694.7	4829.8	3998.5	3105.2	2354.4	1848.7	1438.4	1047.0	682.7	409.4
2.5°	7259.5	5742.5	4871.5	4040.0	3137.1	2373.7	1862.7	1450.4	1057.0	689.3	413.5
0°	7290.1	5758.5	4885.4	4053.8	3147.8	2380.2	1867.4	1454.4	1060.3	691.5	414.9
-2.5°	7259.5	5742.5	4871.5	4040.0	3137.1	2373.7	1862.7	1450.4	1057.0	689.3	413.5
-5°	7167.9	5694.7	4829.8	3998.5	3105.2	2354.4	1848.7	1438.4	1047.0	682.7	409.4
-7.5°	7015.9	5615.3	4760.6	3929.7	3052.1	2322.2	1825.3	1418.4	1030.4	671.8	402.5
-10°	6804.5	5504.8	4664.2	3833.7	2978.1	2277.4	1792.7	1390.5	1007.2	656.5	392.9
-12.5°	6535.0	5363.7	4541.1	3711.1	2883.4	2220.0	1751.0	1354.8	977.5	636.9	380.6
-15°	6209.2	5193.0	4391.9	3562.4	2768.5	2150.3	1700.3	1311.4	941.3	613.1	365.6
-17.5°	5828.9	4993.5	4217.4	3388.2	2633.8	2068.5	1640.7	1260.4	898.9	585.0	348.0
-20°	5552.0	4771.8	4015.1	3189.3	2479.8	1974.9	1572.6	1202.0	850.2	552.9	327.8



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	5276.8	4529.9	3772.4	2994.2	2331.4	1869.9	1496.0	1136.3	795.5	516.7	305.1
-25°	4974.6	4263.7	3504.9	2785.9	2204.0	1775.9	1413.3	1063.6	734.8	476.6	279.8
-27.5°	4658.1	3967.3	3213.8	2558.8	2064.9	1673.7	1324.9	988.9	674.1	432.7	252.2
-30°	4322.7	3628.3	2938.0	2335.9	1914.7	1563.3	1229.1	908.2	620.1	393.2	222.1
-32.5°	3957.9	3266.7	2654.1	2160.8	1775.9	1445.2	1126.4	821.5	562.0	356.0	198.9
-35°	3546.9	2924.3	2362.1	1974.9	1638.1	1324.9	1019.7	729.0	500.0	316.3	177.2
-37.5°	3120.3	2583.2	2150.3	1796.0	1492.6	1197.5	911.2	646.1	434.2	274.2	154.1
-40°	2738.5	2277.4	1928.3	1630.3	1344.9	1063.6	797.0	568.6	378.6	229.6	129.7
-42.5°	2354.4	2029.2	1730.0	1457.2	1192.2	932.2	680.8	487.4	325.8	194.6	104.0
-45°	2080.0	1790.4	1536.5	1285.3	1035.1	795.5	587.1	405.9	270.6	163.8	84.5
-47.5°	1810.6	1576.4	1341.7	1107.5	880.9	663.0	489.8	341.9	213.7	131.8	74.6
-50°	1576.4	1360.5	1144.7	932.7	721.6	552.9	396.1	275.6	176.2	98.5	64.4
-52.5°	1341.7	1144.7	950.0	755.9	591.0	439.3	320.8	209.9	137.4	79.9	53.9
-55°	1107.5	932.7	755.9	603.8	464.7	348.0	243.2	165.5	97.5	67.4	43.7
-57.5°	880.9	721.6	591.0	464.7	357.2	261.3	182.5	119.9	77.2	54.6	38.7
-60°	663.0	552.9	439.3	348.0	261.3	188.1	131.2	83.1	62.4	43.0	33.5
-62.5°	489.8	396.1	320.8	243.2	182.5	131.2	85.1	66.4	47.3	37.0	28.3
-65°	341.9	275.6	209.9	165.5	119.9	83.1	66.4	49.3	38.7	30.9	23.8
-67.5°	213.7	176.2	137.4	97.5	77.2	62.4	47.3	38.7	31.8	24.7	21.5
-70°	131.8	98.5	79.9	67.4	54.6	43.0	37.0	30.9	24.7	21.8	19.1
-72.5°	74.6	64.4	53.9	43.7	38.7	33.5	28.3	23.8	21.5	19.1	16.6
-75°	45.4	40.9	36.8	32.7	28.4	24.3	22.3	20.4	18.3	16.3	15.6
-77.5°	31.7	28.4	25.1	23.2	21.7	20.1	18.5	16.8	15.8	15.4	15.0
-80°	21.9	20.8	19.6	18.4	17.2	16.0	15.7	15.4	15.1	14.8	14.5
-82.5°	16.2	15.9	15.7	15.5	15.3	15.0	14.8	14.6	14.4	14.1	12.7
-85°	14.8	14.6	14.5	14.4	14.2	14.1	13.0	11.9	10.8	9.6	8.5
-87.5°	9.5	9.1	8.6	8.1	7.6	7.0	6.5	6.0	5.4	4.8	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



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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°	3.6	3.1	2.4	1.8	1.2	0.6	0.0
85°	7.3	6.1	4.9	3.7	2.5	1.2	0.0
82.5°	10.9	9.1	7.3	5.5	3.7	1.8	0.0
80°	14.2	12.1	9.7	7.3	4.9	2.4	0.0
77.5°	14.6	14.2	12.1	9.1	6.1	3.1	0.0
75°	15.1	14.6	14.2	10.9	7.3	3.6	0.0
72.5°	15.6	15.0	14.5	12.7	8.5	4.2	0.0
70°	16.3	15.4	14.8	14.1	9.6	4.8	0.0
67.5°	18.3	15.8	15.1	14.4	10.8	5.4	0.0
65°	20.4	16.8	15.4	14.6	11.9	6.0	0.0
62.5°	22.3	18.5	15.7	14.8	13.0	6.5	0.0
60°	24.3	20.1	16.0	15.0	14.1	7.0	0.0
57.5°	28.4	21.7	17.2	15.3	14.2	7.6	0.0
55°	32.7	23.2	18.4	15.5	14.4	8.1	0.0
52.5°	36.8	25.1	19.6	15.7	14.5	8.6	0.0
50°	40.9	28.4	20.8	15.9	14.6	9.1	0.0
47.5°	45.4	31.7	21.9	16.2	14.8	9.5	0.0
45°	53.8	34.8	23.0	17.0	14.9	10.0	0.0
42.5°	61.9	37.8	24.0	17.8	15.0	10.4	0.0
40°	69.6	40.6	25.6	18.5	15.1	10.8	0.0
37.5°	76.9	43.3	27.8	19.2	15.2	11.2	0.0
35°	83.8	48.0	29.8	19.9	15.3	11.5	0.0
32.5°	93.9	53.4	31.8	20.5	15.4	11.9	0.0
30°	111.2	58.4	33.6	21.1	15.5	12.2	0.0
27.5°	127.3	63.1	35.2	21.6	15.6	12.5	0.0
25°	142.2	67.4	36.8	22.1	15.6	12.8	0.0
22.5°	155.7	71.3	38.1	22.5	15.7	13.0	0.0
20°	167.9	74.9	39.4	23.0	15.8	13.2	0.0
17.5°	178.7	78.0	40.5	23.3	15.8	13.4	0.0
15°	188.1	80.8	41.5	23.6	15.9	13.6	0.0
12.5°	196.2	83.1	42.3	23.9	15.9	13.8	0.0
10°	202.7	85.0	43.0	24.1	15.9	13.9	0.0
7.5°	207.9	86.5	43.5	24.3	16.0	14.0	0.0
5°	211.6	87.5	43.9	24.4	16.0	14.0	0.0
2.5°	213.8	88.2	44.1	24.5	16.0	14.1	0.0
0°	214.5	88.4	44.2	24.5	16.0	14.1	0.0
-2.5°	213.8	88.2	44.1	24.5	16.0	14.1	0.0
-5°	211.6	87.5	43.9	24.4	16.0	14.0	0.0
-7.5°	207.9	86.5	43.5	24.3	16.0	14.0	0.0
-10°	202.7	85.0	43.0	24.1	15.9	13.9	0.0
-12.5°	196.2	83.1	42.3	23.9	15.9	13.8	0.0
-15°	188.1	80.8	41.5	23.6	15.9	13.6	0.0
-17.5°	178.7	78.0	40.5	23.3	15.8	13.4	0.0
-20°	167.9	74.9	39.4	23.0	15.8	13.2	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	155.7	71.3	38.1	22.5	15.7	13.0	0.0
-25°	142.2	67.4	36.8	22.1	15.6	12.8	0.0
-27.5°	127.3	63.1	35.2	21.6	15.6	12.5	0.0
-30°	111.2	58.4	33.6	21.1	15.5	12.2	0.0
-32.5°	93.9	53.4	31.8	20.5	15.4	11.9	0.0
-35°	83.8	48.0	29.8	19.9	15.3	11.5	0.0
-37.5°	76.9	43.3	27.8	19.2	15.2	11.2	0.0
-40°	69.6	40.6	25.6	18.5	15.1	10.8	0.0
-42.5°	61.9	37.8	24.0	17.8	15.0	10.4	0.0
-45°	53.8	34.8	23.0	17.0	14.9	10.0	0.0
-47.5°	45.4	31.7	21.9	16.2	14.8	9.5	0.0
-50°	40.9	28.4	20.8	15.9	14.6	9.1	0.0
-52.5°	36.8	25.1	19.6	15.7	14.5	8.6	0.0
-55°	32.7	23.2	18.4	15.5	14.4	8.1	0.0
-57.5°	28.4	21.7	17.2	15.3	14.2	7.6	0.0
-60°	24.3	20.1	16.0	15.0	14.1	7.0	0.0
-62.5°	22.3	18.5	15.7	14.8	13.0	6.5	0.0
-65°	20.4	16.8	15.4	14.6	11.9	6.0	0.0
-67.5°	18.3	15.8	15.1	14.4	10.8	5.4	0.0
-70°	16.3	15.4	14.8	14.1	9.6	4.8	0.0
-72.5°	15.6	15.0	14.5	12.7	8.5	4.2	0.0
-75°	15.1	14.6	14.2	10.9	7.3	3.6	0.0
-77.5°	14.6	14.2	12.1	9.1	6.1	3.1	0.0
-80°	14.2	12.1	9.7	7.3	4.9	2.4	0.0
-82.5°	10.9	9.1	7.3	5.5	3.7	1.8	0.0
-85°	7.3	6.1	4.9	3.7	2.5	1.2	0.0
-87.5°	3.6	3.1	2.4	1.8	1.2	0.6	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)