

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: P1212109 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-40-90-2S-HEG**

Issue Date: 11/14/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1212109 (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-40-90-2S-HEG  
Description: EPHESUS LS12 LUMINAIRE  
(12) 4000K, 90 CRI LEDS AND 2S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

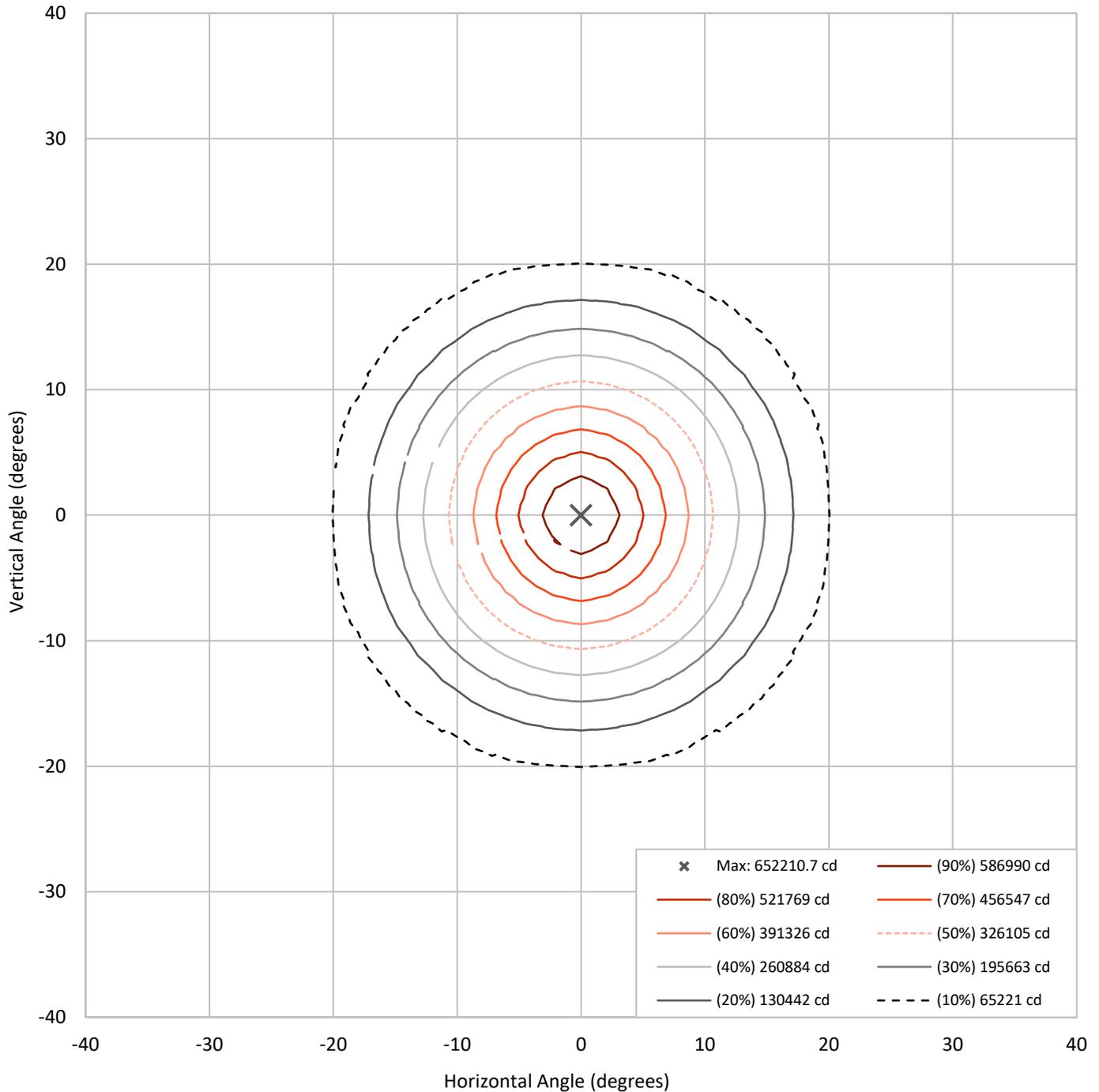
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	128314.7 lumens	Max Intensity:	652210.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	119.0 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:	44870.9 lumens	Field Lumens:	95585 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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### Iso-Candela Plot





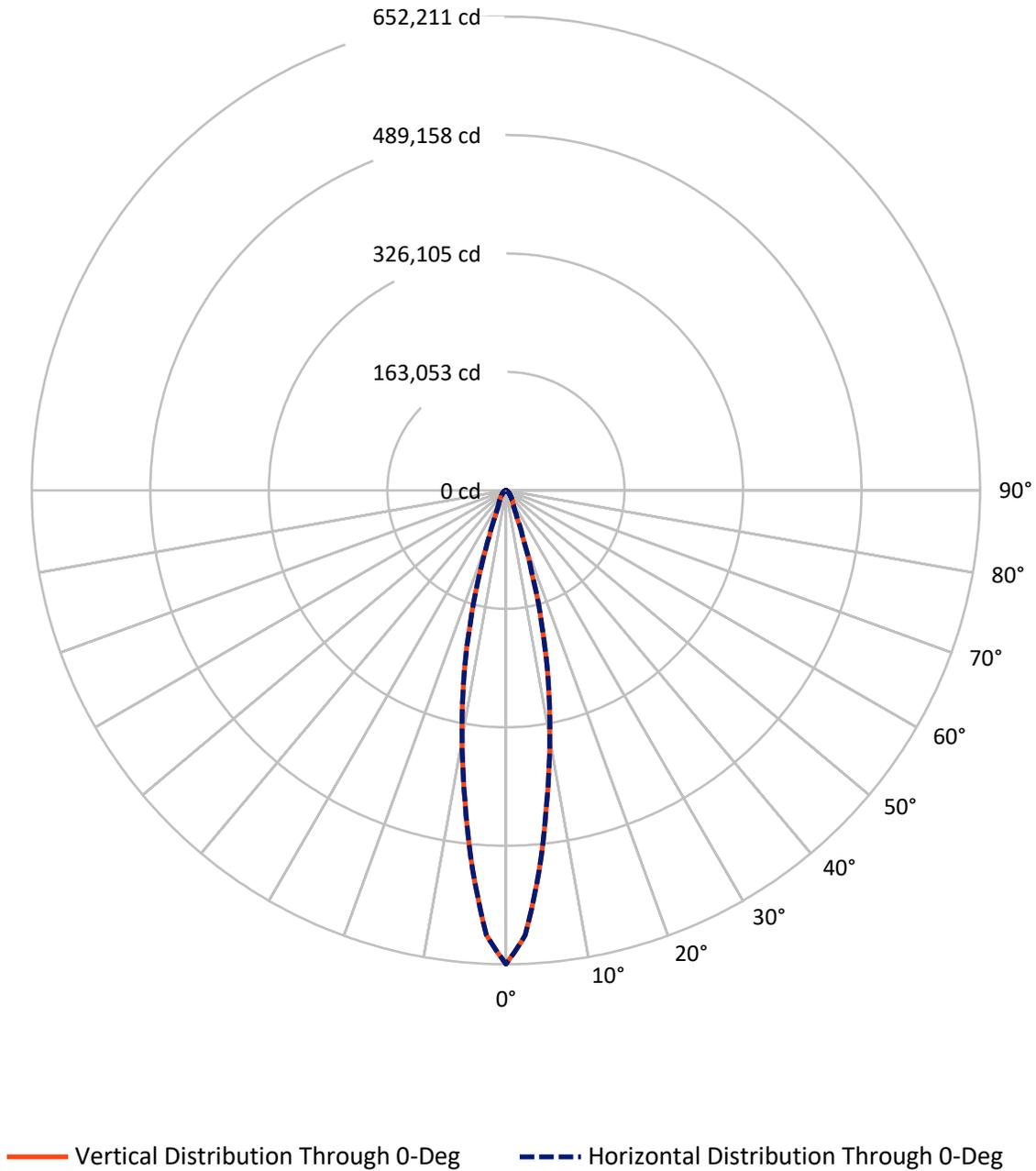
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### Lumen Table

90	0.2	1.1		4.5		11.5		15.2		11.5		4.5		1.1		0.2			
80	0.2	1.1		4.5		11.5		15.2		11.5		4.5		1.1		0.2			
70	0.5	0.7	2.9	8.3	16.8	26.1	34.2	38.6	38.6	34.2	26.1	16.8	8.3	2.9	0.7	0.5			
60		2.2	9.8	24.4	44.5	69.3	92.1	105.3	105.3	92.1	69.3	44.5	24.4	9.8	2.2				
50	1.5	5.1	20.0	47.2	91.0	143.2	190.1	217.6	217.6	190.1	143.2	91.0	47.2	20.0	5.1	1.5			
40		9.0	31.5	78.9	152.2	239.9	338.2	408.1	408.1	338.2	239.9	152.2	78.9	31.5	9.0				
30	3.4	12.6	44.5	112.5	217.3	384.9	609.7	899.5	899.5	609.7	384.9	217.3	112.5	44.5	12.6	3.4			
20		15.4	55.6	140.2	288.3	573.6	1896.7	5067.9	5067.9	1896.7	573.6	288.3	140.2	55.6	15.4				
10	4.2	16.9	61.6	155.6	337.6	824.0	4937.7	12946.7	12946.7	4937.7	824.0	337.6	155.6	61.6	16.9	4.2			
0		16.9	61.6	155.6	337.6	824.0	4937.7	12946.7	12946.7	4937.7	824.0	337.6	155.6	61.6	16.9				
-10	3.4	15.4	55.6	140.2	288.3	573.6	1896.7	5067.9	5067.9	1896.7	573.6	288.3	140.2	55.6	15.4	3.4			
-20		12.6	44.5	112.5	217.3	384.9	609.7	899.5	899.5	609.7	384.9	217.3	112.5	44.5	12.6				
-30	1.5	9.0	31.5	78.9	152.2	239.9	338.2	408.1	408.1	338.2	239.9	152.2	78.9	31.5	9.0	1.5			
-40		5.1	20.0	47.2	91.0	143.2	190.1	217.6	217.6	190.1	143.2	91.0	47.2	20.0	5.1				
-50	0.5	2.2	9.8	24.4	44.5	69.3	92.1	105.3	105.3	92.1	69.3	44.5	24.4	9.8	2.2	0.5			
-60		0.7	2.9	8.3	16.8	26.1	34.2	38.6	38.6	34.2	26.1	16.8	8.3	2.9	0.7				
-70	0.2	1.1		4.5		11.5		15.2		11.5		4.5		1.1		0.2			
-80		1.1		4.5		11.5		15.2		11.5		4.5		1.1					
-90	0.2	1.1		4.5		11.5		15.2		11.5		4.5		1.1		0.2			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

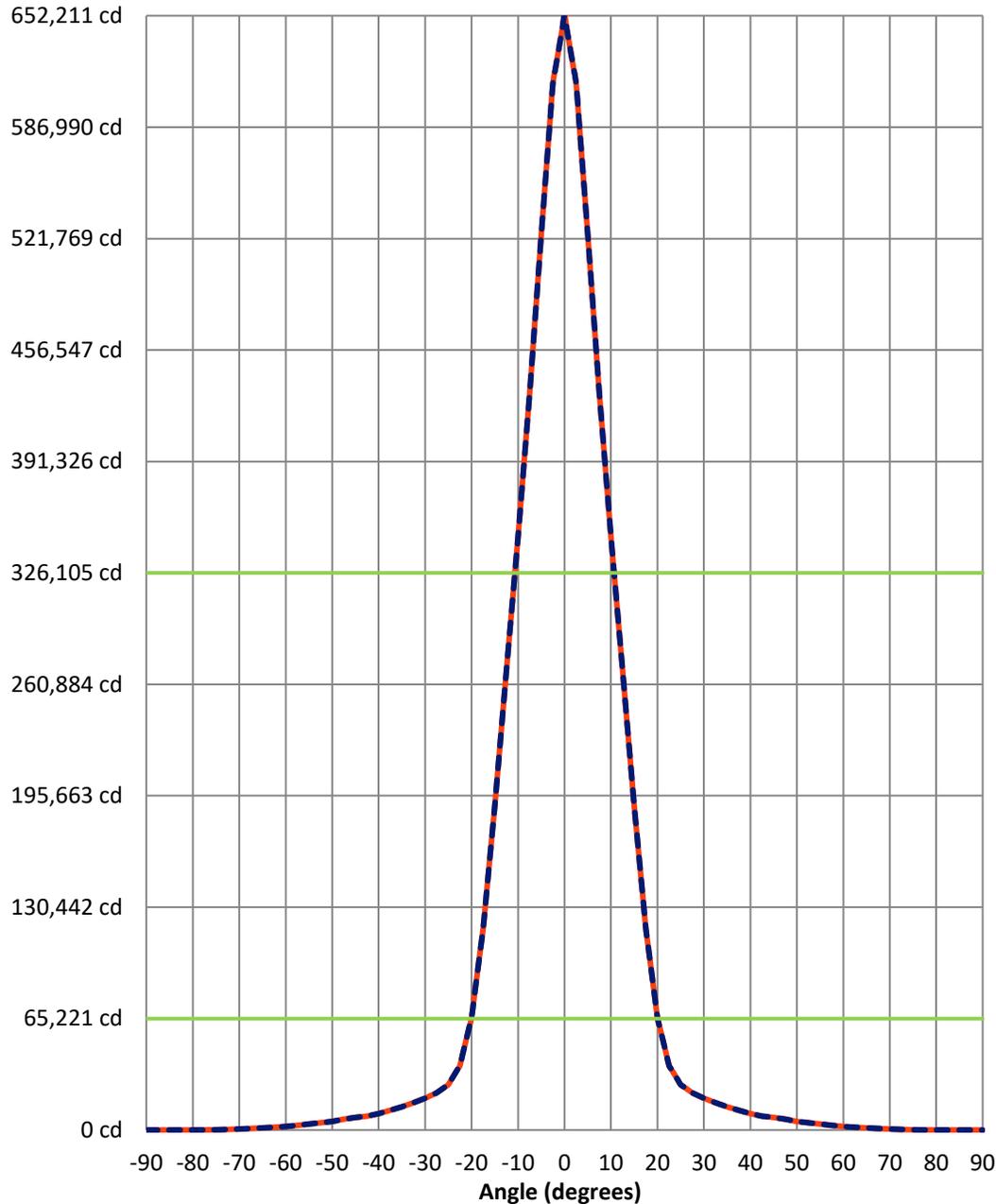
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CATALOG NUMBER: EPH-LS12-1000R-40-90-2S-HEG

### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 21.4°  
 V Angle: 21.4°  
 Lumens: 44870.9  
 Efficiency: 35.0%

**Field:**  
 H Angle: 40.1°  
 V Angle: 40.1°  
 Lumens: 95585  
 Efficiency: 74.5%

**Spill:**  
 Lumens: 32729.7  
 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	0.5	1.1	1.6	2.1	2.7	3.2	3.7	4.2	4.7	5.2
85°	0.0	1.1	2.1	3.2	4.3	5.3	6.4	7.4	8.4	9.4	10.4
82.5°	0.0	1.6	3.2	4.8	6.4	8.0	9.5	11.1	12.3	12.5	12.8
80°	0.0	2.1	4.3	6.4	8.5	10.6	12.4	12.6	12.9	13.2	13.5
77.5°	0.0	2.7	5.3	8.0	10.6	12.4	12.8	13.1	13.5	13.8	14.7
75°	0.0	3.2	6.4	9.5	12.4	12.8	13.2	13.6	14.2	16.0	17.8
72.5°	0.0	3.7	7.4	11.1	12.6	13.1	13.6	14.6	16.7	18.8	20.8
70°	0.0	4.2	8.4	12.3	12.9	13.5	14.2	16.7	19.1	21.5	27.0
67.5°	0.0	4.7	9.4	12.5	13.2	13.8	16.0	18.8	21.5	27.8	33.9
65°	0.0	5.2	10.4	12.8	13.5	14.7	17.8	20.8	27.0	33.9	43.2
62.5°	0.0	5.7	11.3	12.9	13.7	16.2	19.5	24.7	32.4	41.5	58.1
60°	0.0	6.1	12.3	13.1	14.0	17.6	21.2	29.3	37.6	54.7	72.7
57.5°	0.0	6.6	12.4	13.3	15.0	19.0	24.8	33.8	47.8	67.6	105.0
55°	0.0	7.1	12.5	13.5	16.1	20.3	28.6	38.2	59.0	85.3	144.8
52.5°	0.0	7.5	12.7	13.7	17.2	21.9	32.2	47.2	69.9	120.3	183.7
50°	0.0	7.9	12.8	13.9	18.2	24.8	35.8	56.4	86.2	154.2	241.2
47.5°	0.0	8.3	12.9	14.2	19.1	27.7	39.8	65.3	115.3	187.0	299.2
45°	0.0	8.7	13.0	14.9	20.1	30.4	47.1	73.9	143.4	236.8	355.1
42.5°	0.0	9.1	13.1	15.5	21.0	33.0	54.2	91.0	170.3	285.0	426.4
40°	0.0	9.4	13.2	16.2	22.4	35.5	60.9	113.5	200.9	331.2	497.5
37.5°	0.0	9.8	13.3	16.8	24.3	37.9	67.3	134.8	239.9	379.9	565.3
35°	0.0	10.1	13.4	17.4	26.1	42.0	73.4	155.1	276.8	437.4	637.8
32.5°	0.0	10.4	13.5	17.9	27.8	46.7	82.2	174.1	311.5	491.7	718.8
30°	0.0	10.7	13.5	18.4	29.4	51.1	97.4	194.4	344.0	542.5	794.6
27.5°	0.0	10.9	13.6	18.9	30.8	55.2	111.5	220.6	378.5	589.8	865.2
25°	0.0	11.1	13.7	19.3	32.2	59.0	124.4	244.8	417.0	642.9	930.6
22.5°	0.0	11.4	13.7	19.7	33.4	62.5	136.3	266.9	452.1	696.0	994.3
20°	0.0	11.6	13.8	20.1	34.5	65.6	146.9	286.8	483.7	743.9	1051.7
17.5°	0.0	11.7	13.8	20.4	35.5	68.3	156.4	304.5	511.9	786.5	1102.8
15°	0.0	11.9	13.9	20.6	36.3	70.7	164.6	319.9	536.4	823.6	1147.5
12.5°	0.0	12.0	13.9	20.9	37.0	72.7	171.7	333.0	557.2	855.2	1185.5
10°	0.0	12.1	13.9	21.1	37.6	74.4	177.4	343.8	574.4	881.2	1216.7
7.5°	0.0	12.2	14.0	21.2	38.1	75.7	181.9	352.2	587.7	901.5	1241.1
5°	0.0	12.3	14.0	21.3	38.4	76.7	185.1	358.2	597.3	916.0	1258.6
2.5°	0.0	12.3	14.0	21.4	38.6	77.2	187.1	361.8	603.1	924.8	1269.1
0°	0.0	12.3	14.0	21.4	38.7	77.4	187.7	363.0	605.0	927.7	1272.6
-2.5°	0.0	12.3	14.0	21.4	38.6	77.2	187.1	361.8	603.1	924.8	1269.1
-5°	0.0	12.3	14.0	21.3	38.4	76.7	185.1	358.2	597.3	916.0	1258.6
-7.5°	0.0	12.2	14.0	21.2	38.1	75.7	181.9	352.2	587.7	901.5	1241.1
-10°	0.0	12.1	13.9	21.1	37.6	74.4	177.4	343.8	574.4	881.2	1216.7
-12.5°	0.0	12.0	13.9	20.9	37.0	72.7	171.7	333.0	557.2	855.2	1185.5
-15°	0.0	11.9	13.9	20.6	36.3	70.7	164.6	319.9	536.4	823.6	1147.5
-17.5°	0.0	11.7	13.8	20.4	35.5	68.3	156.4	304.5	511.9	786.5	1102.8
-20°	0.0	11.6	13.8	20.1	34.5	65.6	146.9	286.8	483.7	743.9	1051.7



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 CATALOG NUMBER: EPH-LS12-1000R-40-90-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	11.4	13.7	19.7	33.4	62.5	136.3	266.9	452.1	696.0	994.3
-25°	0.0	11.1	13.7	19.3	32.2	59.0	124.4	244.8	417.0	642.9	930.6
-27.5°	0.0	10.9	13.6	18.9	30.8	55.2	111.5	220.6	378.5	589.8	865.2
-30°	0.0	10.7	13.5	18.4	29.4	51.1	97.4	194.4	344.0	542.5	794.6
-32.5°	0.0	10.4	13.5	17.9	27.8	46.7	82.2	174.1	311.5	491.7	718.8
-35°	0.0	10.1	13.4	17.4	26.1	42.0	73.4	155.1	276.8	437.4	637.8
-37.5°	0.0	9.8	13.3	16.8	24.3	37.9	67.3	134.8	239.9	379.9	565.3
-40°	0.0	9.4	13.2	16.2	22.4	35.5	60.9	113.5	200.9	331.2	497.5
-42.5°	0.0	9.1	13.1	15.5	21.0	33.0	54.2	91.0	170.3	285.0	426.4
-45°	0.0	8.7	13.0	14.9	20.1	30.4	47.1	73.9	143.4	236.8	355.1
-47.5°	0.0	8.3	12.9	14.2	19.1	27.7	39.8	65.3	115.3	187.0	299.2
-50°	0.0	7.9	12.8	13.9	18.2	24.8	35.8	56.4	86.2	154.2	241.2
-52.5°	0.0	7.5	12.7	13.7	17.2	21.9	32.2	47.2	69.9	120.3	183.7
-55°	0.0	7.1	12.5	13.5	16.1	20.3	28.6	38.2	59.0	85.3	144.8
-57.5°	0.0	6.6	12.4	13.3	15.0	19.0	24.8	33.8	47.8	67.6	105.0
-60°	0.0	6.1	12.3	13.1	14.0	17.6	21.2	29.3	37.6	54.7	72.7
-62.5°	0.0	5.7	11.3	12.9	13.7	16.2	19.5	24.7	32.4	41.5	58.1
-65°	0.0	5.2	10.4	12.8	13.5	14.7	17.8	20.8	27.0	33.9	43.2
-67.5°	0.0	4.7	9.4	12.5	13.2	13.8	16.0	18.8	21.5	27.8	33.9
-70°	0.0	4.2	8.4	12.3	12.9	13.5	14.2	16.7	19.1	21.5	27.0
-72.5°	0.0	3.7	7.4	11.1	12.6	13.1	13.6	14.6	16.7	18.8	20.8
-75°	0.0	3.2	6.4	9.5	12.4	12.8	13.2	13.6	14.2	16.0	17.8
-77.5°	0.0	2.7	5.3	8.0	10.6	12.4	12.8	13.1	13.5	13.8	14.7
-80°	0.0	2.1	4.3	6.4	8.5	10.6	12.4	12.6	12.9	13.2	13.5
-82.5°	0.0	1.6	3.2	4.8	6.4	8.0	9.5	11.1	12.3	12.5	12.8
-85°	0.0	1.1	2.1	3.2	4.3	5.3	6.4	7.4	8.4	9.4	10.4
-87.5°	0.0	0.5	1.1	1.6	2.1	2.7	3.2	3.7	4.2	4.7	5.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	5.7	6.1	6.6	7.1	7.5	7.9	8.3	8.7	9.1	9.4	9.8
85°	11.3	12.3	12.4	12.5	12.7	12.8	12.9	13.0	13.1	13.2	13.3
82.5°	12.9	13.1	13.3	13.5	13.7	13.9	14.2	14.9	15.5	16.2	16.8
80°	13.7	14.0	15.0	16.1	17.2	18.2	19.1	20.1	21.0	22.4	24.3
77.5°	16.2	17.6	19.0	20.3	21.9	24.8	27.7	30.4	33.0	35.5	37.9
75°	19.5	21.2	24.8	28.6	32.2	35.8	39.8	47.1	54.2	60.9	67.3
72.5°	24.7	29.3	33.8	38.2	47.2	56.4	65.3	73.9	91.0	113.5	134.8
70°	32.4	37.6	47.8	59.0	69.9	86.2	115.3	143.4	170.3	200.9	239.9
67.5°	41.5	54.7	67.6	85.3	120.3	154.2	187.0	236.8	285.0	331.2	379.9
65°	58.1	72.7	105.0	144.8	183.7	241.2	299.2	355.1	426.4	497.5	565.3
62.5°	74.5	114.8	159.7	212.8	280.6	346.6	428.5	513.7	595.7	697.3	797.3
60°	114.8	164.6	228.6	304.5	384.4	483.7	580.1	696.0	815.6	930.6	1047.8
57.5°	159.7	228.6	312.5	406.5	517.1	631.4	770.8	905.7	1043.2	1176.7	1306.0
55°	212.8	304.5	406.5	528.3	661.4	816.0	969.0	1124.6	1275.0	1426.5	1571.5
52.5°	280.6	384.4	517.1	661.4	831.2	1001.6	1173.9	1344.4	1513.7	1687.2	1881.4
50°	346.6	483.7	631.4	816.0	1001.6	1190.4	1379.3	1566.6	1775.4	1992.5	2260.1
47.5°	428.5	580.1	770.8	969.0	1173.9	1379.3	1584.3	1819.8	2059.9	2396.0	2730.2
45°	513.7	696.0	905.7	1124.6	1344.4	1566.6	1819.8	2082.5	2464.5	2848.6	3269.1
42.5°	595.7	815.6	1043.2	1275.0	1513.7	1775.4	2059.9	2464.5	2889.8	3352.7	3779.0
40°	697.3	930.6	1176.7	1426.5	1687.2	1992.5	2396.0	2848.6	3352.7	3818.1	4253.1
37.5°	797.3	1047.8	1306.0	1571.5	1881.4	2260.1	2730.2	3269.1	3779.0	4253.1	4734.8
35°	892.2	1159.2	1433.3	1728.0	2066.7	2558.6	3103.4	3662.2	4173.4	4692.0	5323.7
32.5°	985.6	1264.6	1553.9	1890.6	2322.2	2858.3	3463.0	4015.5	4564.4	5170.5	6109.5
30°	1075.5	1367.8	1675.3	2043.7	2570.6	3174.6	3782.2	4354.3	4940.7	5875.0	6737.5
27.5°	1159.2	1464.5	1806.7	2238.8	2812.0	3471.2	4075.6	4685.4	5489.7	6499.9	7268.1
25°	1236.6	1553.9	1928.3	2437.5	3066.7	3730.6	4352.6	4994.3	6072.0	6965.7	7674.0
22.5°	1309.0	1636.1	2039.8	2619.8	3300.7	3963.5	4617.0	5461.6	6552.0	7393.1	8027.4
20°	1376.0	1728.0	2169.7	2790.5	3513.0	4175.1	4857.7	5918.1	6919.4	7694.7	8554.1
17.5°	1435.6	1809.8	2304.4	2964.6	3690.0	4369.1	5100.0	6328.1	7250.0	7966.7	9125.5
15°	1487.7	1881.4	2422.3	3117.0	3842.7	4543.6	5432.7	6610.1	7502.6	8272.3	9636.9
12.5°	1532.0	1942.3	2522.8	3247.1	3973.3	4693.0	5717.9	6841.1	7693.5	8675.3	10219.7
10°	1568.5	1992.5	2605.7	3354.4	4081.0	4816.4	5953.6	7032.4	7851.8	9010.2	10705.1
7.5°	1597.1	2031.8	2670.4	3438.3	4165.3	4913.1	6138.6	7182.6	7976.4	9273.9	11088.2
5°	1617.5	2059.9	2716.9	3498.5	4225.9	4982.6	6271.6	7290.7	8066.1	9464.2	11364.8
2.5°	1629.8	2076.9	2744.9	3534.8	4262.3	5024.4	6351.7	7355.9	8120.2	9579.1	11532.1
0°	1633.9	2082.5	2754.2	3546.9	4274.5	5038.4	6378.5	7377.7	8138.3	9617.5	11588.1
-2.5°	1629.8	2076.9	2744.9	3534.8	4262.3	5024.4	6351.7	7355.9	8120.2	9579.1	11532.1
-5°	1617.5	2059.9	2716.9	3498.5	4225.9	4982.6	6271.6	7290.7	8066.1	9464.2	11364.8
-7.5°	1597.1	2031.8	2670.4	3438.3	4165.3	4913.1	6138.6	7182.6	7976.4	9273.9	11088.2
-10°	1568.5	1992.5	2605.7	3354.4	4081.0	4816.4	5953.6	7032.4	7851.8	9010.2	10705.1
-12.5°	1532.0	1942.3	2522.8	3247.1	3973.3	4693.0	5717.9	6841.1	7693.5	8675.3	10219.7
-15°	1487.7	1881.4	2422.3	3117.0	3842.7	4543.6	5432.7	6610.1	7502.6	8272.3	9636.9
-17.5°	1435.6	1809.8	2304.4	2964.6	3690.0	4369.1	5100.0	6328.1	7250.0	7966.7	9125.5
-20°	1376.0	1728.0	2169.7	2790.5	3513.0	4175.1	4857.7	5918.1	6919.4	7694.7	8554.1



REPORT NUMBER: P1212109 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1309.0	1636.1	2039.8	2619.8	3300.7	3963.5	4617.0	5461.6	6552.0	7393.1	8027.4
-25°	1236.6	1553.9	1928.3	2437.5	3066.7	3730.6	4352.6	4994.3	6072.0	6965.7	7674.0
-27.5°	1159.2	1464.5	1806.7	2238.8	2812.0	3471.2	4075.6	4685.4	5489.7	6499.9	7268.1
-30°	1075.5	1367.8	1675.3	2043.7	2570.6	3174.6	3782.2	4354.3	4940.7	5875.0	6737.5
-32.5°	985.6	1264.6	1553.9	1890.6	2322.2	2858.3	3463.0	4015.5	4564.4	5170.5	6109.5
-35°	892.2	1159.2	1433.3	1728.0	2066.7	2558.6	3103.4	3662.2	4173.4	4692.0	5323.7
-37.5°	797.3	1047.8	1306.0	1571.5	1881.4	2260.1	2730.2	3269.1	3779.0	4253.1	4734.8
-40°	697.3	930.6	1176.7	1426.5	1687.2	1992.5	2396.0	2848.6	3352.7	3818.1	4253.1
-42.5°	595.7	815.6	1043.2	1275.0	1513.7	1775.4	2059.9	2464.5	2889.8	3352.7	3779.0
-45°	513.7	696.0	905.7	1124.6	1344.4	1566.6	1819.8	2082.5	2464.5	2848.6	3269.1
-47.5°	428.5	580.1	770.8	969.0	1173.9	1379.3	1584.3	1819.8	2059.9	2396.0	2730.2
-50°	346.6	483.7	631.4	816.0	1001.6	1190.4	1379.3	1566.6	1775.4	1992.5	2260.1
-52.5°	280.6	384.4	517.1	661.4	831.2	1001.6	1173.9	1344.4	1513.7	1687.2	1881.4
-55°	212.8	304.5	406.5	528.3	661.4	816.0	969.0	1124.6	1275.0	1426.5	1571.5
-57.5°	159.7	228.6	312.5	406.5	517.1	631.4	770.8	905.7	1043.2	1176.7	1306.0
-60°	114.8	164.6	228.6	304.5	384.4	483.7	580.1	696.0	815.6	930.6	1047.8
-62.5°	74.5	114.8	159.7	212.8	280.6	346.6	428.5	513.7	595.7	697.3	797.3
-65°	58.1	72.7	105.0	144.8	183.7	241.2	299.2	355.1	426.4	497.5	565.3
-67.5°	41.5	54.7	67.6	85.3	120.3	154.2	187.0	236.8	285.0	331.2	379.9
-70°	32.4	37.6	47.8	59.0	69.9	86.2	115.3	143.4	170.3	200.9	239.9
-72.5°	24.7	29.3	33.8	38.2	47.2	56.4	65.3	73.9	91.0	113.5	134.8
-75°	19.5	21.2	24.8	28.6	32.2	35.8	39.8	47.1	54.2	60.9	67.3
-77.5°	16.2	17.6	19.0	20.3	21.9	24.8	27.7	30.4	33.0	35.5	37.9
-80°	13.7	14.0	15.0	16.1	17.2	18.2	19.1	20.1	21.0	22.4	24.3
-82.5°	12.9	13.1	13.3	13.5	13.7	13.9	14.2	14.9	15.5	16.2	16.8
-85°	11.3	12.3	12.4	12.5	12.7	12.8	12.9	13.0	13.1	13.2	13.3
-87.5°	5.7	6.1	6.6	7.1	7.5	7.9	8.3	8.7	9.1	9.4	9.8
-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: P1212109 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	10.4	10.7	10.9	11.1	11.4	11.6	11.7	11.9	12.0	12.1
85°	13.4	13.5	13.5	13.6	13.7	13.7	13.8	13.8	13.9	13.9	13.9
82.5°	17.4	17.9	18.4	18.9	19.3	19.7	20.1	20.4	20.6	20.9	21.1
80°	26.1	27.8	29.4	30.8	32.2	33.4	34.5	35.5	36.3	37.0	37.6
77.5°	42.0	46.7	51.1	55.2	59.0	62.5	65.6	68.3	70.7	72.7	74.4
75°	73.4	82.2	97.4	111.5	124.4	136.3	146.9	156.4	164.6	171.7	177.4
72.5°	155.1	174.1	194.4	220.6	244.8	266.9	286.8	304.5	319.9	333.0	343.8
70°	276.8	311.5	344.0	378.5	417.0	452.1	483.7	511.9	536.4	557.2	574.4
67.5°	437.4	491.7	542.5	589.8	642.9	696.0	743.9	786.5	823.6	855.2	881.2
65°	637.8	718.8	794.6	865.2	930.6	994.3	1051.7	1102.8	1147.5	1185.5	1216.7
62.5°	892.2	985.6	1075.5	1159.2	1236.6	1309.0	1376.0	1435.6	1487.7	1532.0	1568.5
60°	1159.2	1264.6	1367.8	1464.5	1553.9	1636.1	1728.0	1809.8	1881.4	1942.3	1992.5
57.5°	1433.3	1553.9	1675.3	1806.7	1928.3	2039.8	2169.7	2304.4	2422.3	2522.8	2605.7
55°	1728.0	1890.6	2043.7	2238.8	2437.5	2619.8	2790.5	2964.6	3117.0	3247.1	3354.4
52.5°	2066.7	2322.2	2570.6	2812.0	3066.7	3300.7	3513.0	3690.0	3842.7	3973.3	4081.0
50°	2558.6	2858.3	3174.6	3471.2	3730.6	3963.5	4175.1	4369.1	4543.6	4693.0	4816.4
47.5°	3103.4	3463.0	3782.2	4075.6	4352.6	4617.0	4857.7	5100.0	5432.7	5717.9	5953.6
45°	3662.2	4015.5	4354.3	4685.4	4994.3	5461.6	5918.1	6328.1	6610.1	6841.1	7032.4
42.5°	4173.4	4564.4	4940.7	5489.7	6072.0	6552.0	6919.4	7250.0	7502.6	7693.5	7851.8
40°	4692.0	5170.5	5875.0	6499.9	6965.7	7393.1	7694.7	7966.7	8272.3	8675.3	9010.2
37.5°	5323.7	6109.5	6737.5	7268.1	7674.0	8027.4	8554.1	9125.5	9636.9	10219.7	10705.1
35°	6188.2	6857.6	7434.5	7865.0	8396.6	9133.9	9878.8	10700.7	11431.7	12076.4	12617.8
32.5°	6857.6	7481.6	7961.8	8686.1	9529.4	10552.9	11527.0	12434.3	13245.6	14016.5	14719.9
30°	7434.5	7961.8	8783.5	9767.4	10965.5	12104.7	13177.4	14264.2	15312.0	16245.1	17080.1
27.5°	7865.0	8686.1	9767.4	11104.4	12399.2	13639.0	15011.8	16296.7	17531.8	18615.3	19737.9
25°	8396.6	9529.4	10965.5	12399.2	13822.3	15392.8	16940.9	18421.5	20024.2	21478.4	23146.7
22.5°	9133.9	10552.9	12104.7	13639.0	15392.8	17158.7	18935.2	20898.7	23112.9	25481.4	28761.9
20°	9878.8	11527.0	13177.4	15011.8	16940.9	18935.2	21195.3	24040.3	27422.3	33561.7	40422.4
17.5°	10700.7	12434.3	14264.2	16296.7	18421.5	20898.7	24040.3	28595.8	36050.1	50274.2	65028.0
15°	11431.7	13245.6	15312.0	17531.8	20024.2	23112.9	27422.3	36050.1	53653.4	77767.7	108537.2
12.5°	12076.4	14016.5	16245.1	18615.3	21478.4	25481.4	33561.7	50274.2	77767.7	116010.5	162426.4
10°	12617.8	14719.9	17080.1	19737.9	23146.7	28761.9	40422.4	65028.0	108537.2	162426.4	218297.2
7.5°	13046.1	15277.8	17744.7	20636.0	24622.4	32631.8	51234.6	86985.1	140253.3	204286.6	269899.2
5°	13356.0	15682.4	18228.0	21291.4	25704.1	35484.9	59267.5	104037.3	167144.4	239191.3	311530.2
2.5°	13543.6	15927.7	18521.6	21690.5	26364.9	37235.2	64224.2	114645.9	184075.8	261497.7	338050.4
0°	13606.4	16009.9	18620.1	21824.5	26587.2	37825.4	65900.8	118250.4	189867.9	269176.3	347301.8
-2.5°	13543.6	15927.7	18521.6	21690.5	26364.9	37235.2	64224.2	114645.9	184075.8	261497.7	338050.4
-5°	13356.0	15682.4	18228.0	21291.4	25704.1	35484.9	59267.5	104037.3	167144.4	239191.3	311530.2
-7.5°	13046.1	15277.8	17744.7	20636.0	24622.4	32631.8	51234.6	86985.1	140253.3	204286.6	269899.2
-10°	12617.8	14719.9	17080.1	19737.9	23146.7	28761.9	40422.4	65028.0	108537.2	162426.4	218297.2
-12.5°	12076.4	14016.5	16245.1	18615.3	21478.4	25481.4	33561.7	50274.2	77767.7	116010.5	162426.4
-15°	11431.7	13245.6	15312.0	17531.8	20024.2	23112.9	27422.3	36050.1	53653.4	77767.7	108537.2
-17.5°	10700.7	12434.3	14264.2	16296.7	18421.5	20898.7	24040.3	28595.8	36050.1	50274.2	65028.0
-20°	9878.8	11527.0	13177.4	15011.8	16940.9	18935.2	21195.3	24040.3	27422.3	33561.7	40422.4



REPORT NUMBER: P1212109 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9133.9	10552.9	12104.7	13639.0	15392.8	17158.7	18935.2	20898.7	23112.9	25481.4	28761.9
-25°	8396.6	9529.4	10965.5	12399.2	13822.3	15392.8	16940.9	18421.5	20024.2	21478.4	23146.7
-27.5°	7865.0	8686.1	9767.4	11104.4	12399.2	13639.0	15011.8	16296.7	17531.8	18615.3	19737.9
-30°	7434.5	7961.8	8783.5	9767.4	10965.5	12104.7	13177.4	14264.2	15312.0	16245.1	17080.1
-32.5°	6857.6	7481.6	7961.8	8686.1	9529.4	10552.9	11527.0	12434.3	13245.6	14016.5	14719.9
-35°	6188.2	6857.6	7434.5	7865.0	8396.6	9133.9	9878.8	10700.7	11431.7	12076.4	12617.8
-37.5°	5323.7	6109.5	6737.5	7268.1	7674.0	8027.4	8554.1	9125.5	9636.9	10219.7	10705.1
-40°	4692.0	5170.5	5875.0	6499.9	6965.7	7393.1	7694.7	7966.7	8272.3	8675.3	9010.2
-42.5°	4173.4	4564.4	4940.7	5489.7	6072.0	6552.0	6919.4	7250.0	7502.6	7693.5	7851.8
-45°	3662.2	4015.5	4354.3	4685.4	4994.3	5461.6	5918.1	6328.1	6610.1	6841.1	7032.4
-47.5°	3103.4	3463.0	3782.2	4075.6	4352.6	4617.0	4857.7	5100.0	5432.7	5717.9	5953.6
-50°	2558.6	2858.3	3174.6	3471.2	3730.6	3963.5	4175.1	4369.1	4543.6	4693.0	4816.4
-52.5°	2066.7	2322.2	2570.6	2812.0	3066.7	3300.7	3513.0	3690.0	3842.7	3973.3	4081.0
-55°	1728.0	1890.6	2043.7	2238.8	2437.5	2619.8	2790.5	2964.6	3117.0	3247.1	3354.4
-57.5°	1433.3	1553.9	1675.3	1806.7	1928.3	2039.8	2169.7	2304.4	2422.3	2522.8	2605.7
-60°	1159.2	1264.6	1367.8	1464.5	1553.9	1636.1	1728.0	1809.8	1881.4	1942.3	1992.5
-62.5°	892.2	985.6	1075.5	1159.2	1236.6	1309.0	1376.0	1435.6	1487.7	1532.0	1568.5
-65°	637.8	718.8	794.6	865.2	930.6	994.3	1051.7	1102.8	1147.5	1185.5	1216.7
-67.5°	437.4	491.7	542.5	589.8	642.9	696.0	743.9	786.5	823.6	855.2	881.2
-70°	276.8	311.5	344.0	378.5	417.0	452.1	483.7	511.9	536.4	557.2	574.4
-72.5°	155.1	174.1	194.4	220.6	244.8	266.9	286.8	304.5	319.9	333.0	343.8
-75°	73.4	82.2	97.4	111.5	124.4	136.3	146.9	156.4	164.6	171.7	177.4
-77.5°	42.0	46.7	51.1	55.2	59.0	62.5	65.6	68.3	70.7	72.7	74.4
-80°	26.1	27.8	29.4	30.8	32.2	33.4	34.5	35.5	36.3	37.0	37.6
-82.5°	17.4	17.9	18.4	18.9	19.3	19.7	20.1	20.4	20.6	20.9	21.1
-85°	13.4	13.5	13.5	13.6	13.7	13.7	13.8	13.8	13.9	13.9	13.9
-87.5°	10.1	10.4	10.7	10.9	11.1	11.4	11.6	11.7	11.9	12.0	12.1
-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: P1212109 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-100R-40-90-2S-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°	12.2	12.3	12.3	12.3	12.3	12.3	12.2	12.1	12.0	11.9	11.7
85°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	13.9	13.9	13.9	13.8
82.5°	21.2	21.3	21.4	21.4	21.4	21.3	21.2	21.1	20.9	20.6	20.4
80°	38.1	38.4	38.6	38.7	38.6	38.4	38.1	37.6	37.0	36.3	35.5
77.5°	75.7	76.7	77.2	77.4	77.2	76.7	75.7	74.4	72.7	70.7	68.3
75°	181.9	185.1	187.1	187.7	187.1	185.1	181.9	177.4	171.7	164.6	156.4
72.5°	352.2	358.2	361.8	363.0	361.8	358.2	352.2	343.8	333.0	319.9	304.5
70°	587.7	597.3	603.1	605.0	603.1	597.3	587.7	574.4	557.2	536.4	511.9
67.5°	901.5	916.0	924.8	927.7	924.8	916.0	901.5	881.2	855.2	823.6	786.5
65°	1241.1	1258.6	1269.1	1272.6	1269.1	1258.6	1241.1	1216.7	1185.5	1147.5	1102.8
62.5°	1597.1	1617.5	1629.8	1633.9	1629.8	1617.5	1597.1	1568.5	1532.0	1487.7	1435.6
60°	2031.8	2059.9	2076.9	2082.5	2076.9	2059.9	2031.8	1992.5	1942.3	1881.4	1809.8
57.5°	2670.4	2716.9	2744.9	2754.2	2744.9	2716.9	2670.4	2605.7	2522.8	2422.3	2304.4
55°	3438.3	3498.5	3534.8	3546.9	3534.8	3498.5	3438.3	3354.4	3247.1	3117.0	2964.6
52.5°	4165.3	4225.9	4262.3	4274.5	4262.3	4225.9	4165.3	4081.0	3973.3	3842.7	3690.0
50°	4913.1	4982.6	5024.4	5038.4	5024.4	4982.6	4913.1	4816.4	4693.0	4543.6	4369.1
47.5°	6138.6	6271.6	6351.7	6378.5	6351.7	6271.6	6138.6	5953.6	5717.9	5432.7	5100.0
45°	7182.6	7290.7	7355.9	7377.7	7355.9	7290.7	7182.6	7032.4	6841.1	6610.1	6328.1
42.5°	7976.4	8066.1	8120.2	8138.3	8120.2	8066.1	7976.4	7851.8	7693.5	7502.6	7250.0
40°	9273.9	9464.2	9579.1	9617.5	9579.1	9464.2	9273.9	9010.2	8675.3	8272.3	7966.7
37.5°	11088.2	11364.8	11532.1	11588.1	11532.1	11364.8	11088.2	10705.1	10219.7	9636.9	9125.5
35°	13046.1	13356.0	13543.6	13606.4	13543.6	13356.0	13046.1	12617.8	12076.4	11431.7	10700.7
32.5°	15277.8	15682.4	15927.7	16009.9	15927.7	15682.4	15277.8	14719.9	14016.5	13245.6	12434.3
30°	17744.7	18228.0	18521.6	18620.1	18521.6	18228.0	17744.7	17080.1	16245.1	15312.0	14264.2
27.5°	20636.0	21291.4	21690.5	21824.5	21690.5	21291.4	20636.0	19737.9	18615.3	17531.8	16296.7
25°	24622.4	25704.1	26364.9	26587.2	26364.9	25704.1	24622.4	23146.7	21478.4	20024.2	18421.5
22.5°	32631.8	35484.9	37235.2	37825.4	37235.2	35484.9	32631.8	28761.9	25481.4	23112.9	20898.7
20°	51234.6	59267.5	64224.2	65900.8	64224.2	59267.5	51234.6	40422.4	33561.7	27422.3	24040.3
17.5°	86985.1	104037.3	114645.9	118250.4	114645.9	104037.3	86985.1	65028.0	50274.2	36050.1	28595.8
15°	140253.3	167144.4	184075.8	189867.9	184075.8	167144.4	140253.3	108537.2	77767.7	53653.4	36050.1
12.5°	204286.6	239191.3	261497.7	269176.3	261497.7	239191.3	204286.6	162426.4	116010.5	77767.7	50274.2
10°	269899.2	311530.2	338050.4	347301.8	338050.4	311530.2	269899.2	218297.2	162426.4	108537.2	65028.0
7.5°	329343.9	379556.9	417267.4	431215.7	417267.4	379556.9	329343.9	269899.2	204286.6	140253.3	86985.1
5°	379556.9	446201.0	501868.6	524332.1	501868.6	446201.0	379556.9	311530.2	239191.3	167144.4	104037.3
2.5°	417267.4	501868.6	578415.8	612731.2	578415.8	501868.6	417267.4	338050.4	261497.7	184075.8	114645.9
0°	431215.7	524332.1	612731.2	652210.7	612731.2	524332.1	431215.7	347301.8	269176.3	189867.9	118250.4
-2.5°	417267.4	501868.6	578415.8	612731.2	578415.8	501868.6	417267.4	338050.4	261497.7	184075.8	114645.9
-5°	379556.9	446201.0	501868.6	524332.1	501868.6	446201.0	379556.9	311530.2	239191.3	167144.4	104037.3
-7.5°	329343.9	379556.9	417267.4	431215.7	417267.4	379556.9	329343.9	269899.2	204286.6	140253.3	86985.1
-10°	269899.2	311530.2	338050.4	347301.8	338050.4	311530.2	269899.2	218297.2	162426.4	108537.2	65028.0
-12.5°	204286.6	239191.3	261497.7	269176.3	261497.7	239191.3	204286.6	162426.4	116010.5	77767.7	50274.2
-15°	140253.3	167144.4	184075.8	189867.9	184075.8	167144.4	140253.3	108537.2	77767.7	53653.4	36050.1
-17.5°	86985.1	104037.3	114645.9	118250.4	114645.9	104037.3	86985.1	65028.0	50274.2	36050.1	28595.8
-20°	51234.6	59267.5	64224.2	65900.8	64224.2	59267.5	51234.6	40422.4	33561.7	27422.3	24040.3



REPORT NUMBER: P1212109 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	32631.8	35484.9	37235.2	37825.4	37235.2	35484.9	32631.8	28761.9	25481.4	23112.9	20898.7
-25°	24622.4	25704.1	26364.9	26587.2	26364.9	25704.1	24622.4	23146.7	21478.4	20024.2	18421.5
-27.5°	20636.0	21291.4	21690.5	21824.5	21690.5	21291.4	20636.0	19737.9	18615.3	17531.8	16296.7
-30°	17744.7	18228.0	18521.6	18620.1	18521.6	18228.0	17744.7	17080.1	16245.1	15312.0	14264.2
-32.5°	15277.8	15682.4	15927.7	16009.9	15927.7	15682.4	15277.8	14719.9	14016.5	13245.6	12434.3
-35°	13046.1	13356.0	13543.6	13606.4	13543.6	13356.0	13046.1	12617.8	12076.4	11431.7	10700.7
-37.5°	11088.2	11364.8	11532.1	11588.1	11532.1	11364.8	11088.2	10705.1	10219.7	9636.9	9125.5
-40°	9273.9	9464.2	9579.1	9617.5	9579.1	9464.2	9273.9	9010.2	8675.3	8272.3	7966.7
-42.5°	7976.4	8066.1	8120.2	8138.3	8120.2	8066.1	7976.4	7851.8	7693.5	7502.6	7250.0
-45°	7182.6	7290.7	7355.9	7377.7	7355.9	7290.7	7182.6	7032.4	6841.1	6610.1	6328.1
-47.5°	6138.6	6271.6	6351.7	6378.5	6351.7	6271.6	6138.6	5953.6	5717.9	5432.7	5100.0
-50°	4913.1	4982.6	5024.4	5038.4	5024.4	4982.6	4913.1	4816.4	4693.0	4543.6	4369.1
-52.5°	4165.3	4225.9	4262.3	4274.5	4262.3	4225.9	4165.3	4081.0	3973.3	3842.7	3690.0
-55°	3438.3	3498.5	3534.8	3546.9	3534.8	3498.5	3438.3	3354.4	3247.1	3117.0	2964.6
-57.5°	2670.4	2716.9	2744.9	2754.2	2744.9	2716.9	2670.4	2605.7	2522.8	2422.3	2304.4
-60°	2031.8	2059.9	2076.9	2082.5	2076.9	2059.9	2031.8	1992.5	1942.3	1881.4	1809.8
-62.5°	1597.1	1617.5	1629.8	1633.9	1629.8	1617.5	1597.1	1568.5	1532.0	1487.7	1435.6
-65°	1241.1	1258.6	1269.1	1272.6	1269.1	1258.6	1241.1	1216.7	1185.5	1147.5	1102.8
-67.5°	901.5	916.0	924.8	927.7	924.8	916.0	901.5	881.2	855.2	823.6	786.5
-70°	587.7	597.3	603.1	605.0	603.1	597.3	587.7	574.4	557.2	536.4	511.9
-72.5°	352.2	358.2	361.8	363.0	361.8	358.2	352.2	343.8	333.0	319.9	304.5
-75°	181.9	185.1	187.1	187.7	187.1	185.1	181.9	177.4	171.7	164.6	156.4
-77.5°	75.7	76.7	77.2	77.4	77.2	76.7	75.7	74.4	72.7	70.7	68.3
-80°	38.1	38.4	38.6	38.7	38.6	38.4	38.1	37.6	37.0	36.3	35.5
-82.5°	21.2	21.3	21.4	21.4	21.4	21.3	21.2	21.1	20.9	20.6	20.4
-85°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	13.9	13.9	13.9	13.8
-87.5°	12.2	12.3	12.3	12.3	12.3	12.3	12.2	12.1	12.0	11.9	11.7
-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°	11.6	11.4	11.1	10.9	10.7	10.4	10.1	9.8	9.4	9.1	8.7
85°	13.8	13.7	13.7	13.6	13.5	13.5	13.4	13.3	13.2	13.1	13.0
82.5°	20.1	19.7	19.3	18.9	18.4	17.9	17.4	16.8	16.2	15.5	14.9
80°	34.5	33.4	32.2	30.8	29.4	27.8	26.1	24.3	22.4	21.0	20.1
77.5°	65.6	62.5	59.0	55.2	51.1	46.7	42.0	37.9	35.5	33.0	30.4
75°	146.9	136.3	124.4	111.5	97.4	82.2	73.4	67.3	60.9	54.2	47.1
72.5°	286.8	266.9	244.8	220.6	194.4	174.1	155.1	134.8	113.5	91.0	73.9
70°	483.7	452.1	417.0	378.5	344.0	311.5	276.8	239.9	200.9	170.3	143.4
67.5°	743.9	696.0	642.9	589.8	542.5	491.7	437.4	379.9	331.2	285.0	236.8
65°	1051.7	994.3	930.6	865.2	794.6	718.8	637.8	565.3	497.5	426.4	355.1
62.5°	1376.0	1309.0	1236.6	1159.2	1075.5	985.6	892.2	797.3	697.3	595.7	513.7
60°	1728.0	1636.1	1553.9	1464.5	1367.8	1264.6	1159.2	1047.8	930.6	815.6	696.0
57.5°	2169.7	2039.8	1928.3	1806.7	1675.3	1553.9	1433.3	1306.0	1176.7	1043.2	905.7
55°	2790.5	2619.8	2437.5	2238.8	2043.7	1890.6	1728.0	1571.5	1426.5	1275.0	1124.6
52.5°	3513.0	3300.7	3066.7	2812.0	2570.6	2322.2	2066.7	1881.4	1687.2	1513.7	1344.4
50°	4175.1	3963.5	3730.6	3471.2	3174.6	2858.3	2558.6	2260.1	1992.5	1775.4	1566.6
47.5°	4857.7	4617.0	4352.6	4075.6	3782.2	3463.0	3103.4	2730.2	2396.0	2059.9	1819.8
45°	5918.1	5461.6	4994.3	4685.4	4354.3	4015.5	3662.2	3269.1	2848.6	2464.5	2082.5
42.5°	6919.4	6552.0	6072.0	5489.7	4940.7	4564.4	4173.4	3779.0	3352.7	2889.8	2464.5
40°	7694.7	7393.1	6965.7	6499.9	5875.0	5170.5	4692.0	4253.1	3818.1	3352.7	2848.6
37.5°	8554.1	8027.4	7674.0	7268.1	6737.5	6109.5	5323.7	4734.8	4253.1	3779.0	3269.1
35°	9878.8	9133.9	8396.6	7865.0	7434.5	6857.6	6188.2	5323.7	4692.0	4173.4	3662.2
32.5°	11527.0	10552.9	9529.4	8686.1	7961.8	7481.6	6857.6	6109.5	5170.5	4564.4	4015.5
30°	13177.4	12104.7	10965.5	9767.4	8783.5	7961.8	7434.5	6737.5	5875.0	4940.7	4354.3
27.5°	15011.8	13639.0	12399.2	11104.4	9767.4	8686.1	7865.0	7268.1	6499.9	5489.7	4685.4
25°	16940.9	15392.8	13822.3	12399.2	10965.5	9529.4	8396.6	7674.0	6965.7	6072.0	4994.3
22.5°	18935.2	17158.7	15392.8	13639.0	12104.7	10552.9	9133.9	8027.4	7393.1	6552.0	5461.6
20°	21195.3	18935.2	16940.9	15011.8	13177.4	11527.0	9878.8	8554.1	7694.7	6919.4	5918.1
17.5°	24040.3	20898.7	18421.5	16296.7	14264.2	12434.3	10700.7	9125.5	7966.7	7250.0	6328.1
15°	27422.3	23112.9	20024.2	17531.8	15312.0	13245.6	11431.7	9636.9	8272.3	7502.6	6610.1
12.5°	33561.7	25481.4	21478.4	18615.3	16245.1	14016.5	12076.4	10219.7	8675.3	7693.5	6841.1
10°	40422.4	28761.9	23146.7	19737.9	17080.1	14719.9	12617.8	10705.1	9010.2	7851.8	7032.4
7.5°	51234.6	32631.8	24622.4	20636.0	17744.7	15277.8	13046.1	11088.2	9273.9	7976.4	7182.6
5°	59267.5	35484.9	25704.1	21291.4	18228.0	15682.4	13356.0	11364.8	9464.2	8066.1	7290.7
2.5°	64224.2	37235.2	26364.9	21690.5	18521.6	15927.7	13543.6	11532.1	9579.1	8120.2	7355.9
0°	65900.8	37825.4	26587.2	21824.5	18620.1	16009.9	13606.4	11588.1	9617.5	8138.3	7377.7
-2.5°	64224.2	37235.2	26364.9	21690.5	18521.6	15927.7	13543.6	11532.1	9579.1	8120.2	7355.9
-5°	59267.5	35484.9	25704.1	21291.4	18228.0	15682.4	13356.0	11364.8	9464.2	8066.1	7290.7
-7.5°	51234.6	32631.8	24622.4	20636.0	17744.7	15277.8	13046.1	11088.2	9273.9	7976.4	7182.6
-10°	40422.4	28761.9	23146.7	19737.9	17080.1	14719.9	12617.8	10705.1	9010.2	7851.8	7032.4
-12.5°	33561.7	25481.4	21478.4	18615.3	16245.1	14016.5	12076.4	10219.7	8675.3	7693.5	6841.1
-15°	27422.3	23112.9	20024.2	17531.8	15312.0	13245.6	11431.7	9636.9	8272.3	7502.6	6610.1
-17.5°	24040.3	20898.7	18421.5	16296.7	14264.2	12434.3	10700.7	9125.5	7966.7	7250.0	6328.1
-20°	21195.3	18935.2	16940.9	15011.8	13177.4	11527.0	9878.8	8554.1	7694.7	6919.4	5918.1



REPORT NUMBER: P1212109 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-2S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	18935.2	17158.7	15392.8	13639.0	12104.7	10552.9	9133.9	8027.4	7393.1	6552.0	5461.6
-25°	16940.9	15392.8	13822.3	12399.2	10965.5	9529.4	8396.6	7674.0	6965.7	6072.0	4994.3
-27.5°	15011.8	13639.0	12399.2	11104.4	9767.4	8686.1	7865.0	7268.1	6499.9	5489.7	4685.4
-30°	13177.4	12104.7	10965.5	9767.4	8783.5	7961.8	7434.5	6737.5	5875.0	4940.7	4354.3
-32.5°	11527.0	10552.9	9529.4	8686.1	7961.8	7481.6	6857.6	6109.5	5170.5	4564.4	4015.5
-35°	9878.8	9133.9	8396.6	7865.0	7434.5	6857.6	6188.2	5323.7	4692.0	4173.4	3662.2
-37.5°	8554.1	8027.4	7674.0	7268.1	6737.5	6109.5	5323.7	4734.8	4253.1	3779.0	3269.1
-40°	7694.7	7393.1	6965.7	6499.9	5875.0	5170.5	4692.0	4253.1	3818.1	3352.7	2848.6
-42.5°	6919.4	6552.0	6072.0	5489.7	4940.7	4564.4	4173.4	3779.0	3352.7	2889.8	2464.5
-45°	5918.1	5461.6	4994.3	4685.4	4354.3	4015.5	3662.2	3269.1	2848.6	2464.5	2082.5
-47.5°	4857.7	4617.0	4352.6	4075.6	3782.2	3463.0	3103.4	2730.2	2396.0	2059.9	1819.8
-50°	4175.1	3963.5	3730.6	3471.2	3174.6	2858.3	2558.6	2260.1	1992.5	1775.4	1566.6
-52.5°	3513.0	3300.7	3066.7	2812.0	2570.6	2322.2	2066.7	1881.4	1687.2	1513.7	1344.4
-55°	2790.5	2619.8	2437.5	2238.8	2043.7	1890.6	1728.0	1571.5	1426.5	1275.0	1124.6
-57.5°	2169.7	2039.8	1928.3	1806.7	1675.3	1553.9	1433.3	1306.0	1176.7	1043.2	905.7
-60°	1728.0	1636.1	1553.9	1464.5	1367.8	1264.6	1159.2	1047.8	930.6	815.6	696.0
-62.5°	1376.0	1309.0	1236.6	1159.2	1075.5	985.6	892.2	797.3	697.3	595.7	513.7
-65°	1051.7	994.3	930.6	865.2	794.6	718.8	637.8	565.3	497.5	426.4	355.1
-67.5°	743.9	696.0	642.9	589.8	542.5	491.7	437.4	379.9	331.2	285.0	236.8
-70°	483.7	452.1	417.0	378.5	344.0	311.5	276.8	239.9	200.9	170.3	143.4
-72.5°	286.8	266.9	244.8	220.6	194.4	174.1	155.1	134.8	113.5	91.0	73.9
-75°	146.9	136.3	124.4	111.5	97.4	82.2	73.4	67.3	60.9	54.2	47.1
-77.5°	65.6	62.5	59.0	55.2	51.1	46.7	42.0	37.9	35.5	33.0	30.4
-80°	34.5	33.4	32.2	30.8	29.4	27.8	26.1	24.3	22.4	21.0	20.1
-82.5°	20.1	19.7	19.3	18.9	18.4	17.9	17.4	16.8	16.2	15.5	14.9
-85°	13.8	13.7	13.7	13.6	13.5	13.5	13.4	13.3	13.2	13.1	13.0
-87.5°	11.6	11.4	11.1	10.9	10.7	10.4	10.1	9.8	9.4	9.1	8.7
-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: P1212109 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-2S-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°	8.3	7.9	7.5	7.1	6.6	6.1	5.7	5.2	4.7	4.2	3.7
85°	12.9	12.8	12.7	12.5	12.4	12.3	11.3	10.4	9.4	8.4	7.4
82.5°	14.2	13.9	13.7	13.5	13.3	13.1	12.9	12.8	12.5	12.3	11.1
80°	19.1	18.2	17.2	16.1	15.0	14.0	13.7	13.5	13.2	12.9	12.6
77.5°	27.7	24.8	21.9	20.3	19.0	17.6	16.2	14.7	13.8	13.5	13.1
75°	39.8	35.8	32.2	28.6	24.8	21.2	19.5	17.8	16.0	14.2	13.6
72.5°	65.3	56.4	47.2	38.2	33.8	29.3	24.7	20.8	18.8	16.7	14.6
70°	115.3	86.2	69.9	59.0	47.8	37.6	32.4	27.0	21.5	19.1	16.7
67.5°	187.0	154.2	120.3	85.3	67.6	54.7	41.5	33.9	27.8	21.5	18.8
65°	299.2	241.2	183.7	144.8	105.0	72.7	58.1	43.2	33.9	27.0	20.8
62.5°	428.5	346.6	280.6	212.8	159.7	114.8	74.5	58.1	41.5	32.4	24.7
60°	580.1	483.7	384.4	304.5	228.6	164.6	114.8	72.7	54.7	37.6	29.3
57.5°	770.8	631.4	517.1	406.5	312.5	228.6	159.7	105.0	67.6	47.8	33.8
55°	969.0	816.0	661.4	528.3	406.5	304.5	212.8	144.8	85.3	59.0	38.2
52.5°	1173.9	1001.6	831.2	661.4	517.1	384.4	280.6	183.7	120.3	69.9	47.2
50°	1379.3	1190.4	1001.6	816.0	631.4	483.7	346.6	241.2	154.2	86.2	56.4
47.5°	1584.3	1379.3	1173.9	969.0	770.8	580.1	428.5	299.2	187.0	115.3	65.3
45°	1819.8	1566.6	1344.4	1124.6	905.7	696.0	513.7	355.1	236.8	143.4	73.9
42.5°	2059.9	1775.4	1513.7	1275.0	1043.2	815.6	595.7	426.4	285.0	170.3	91.0
40°	2396.0	1992.5	1687.2	1426.5	1176.7	930.6	697.3	497.5	331.2	200.9	113.5
37.5°	2730.2	2260.1	1881.4	1571.5	1306.0	1047.8	797.3	565.3	379.9	239.9	134.8
35°	3103.4	2558.6	2066.7	1728.0	1433.3	1159.2	892.2	637.8	437.4	276.8	155.1
32.5°	3463.0	2858.3	2322.2	1890.6	1553.9	1264.6	985.6	718.8	491.7	311.5	174.1
30°	3782.2	3174.6	2570.6	2043.7	1675.3	1367.8	1075.5	794.6	542.5	344.0	194.4
27.5°	4075.6	3471.2	2812.0	2238.8	1806.7	1464.5	1159.2	865.2	589.8	378.5	220.6
25°	4352.6	3730.6	3066.7	2437.5	1928.3	1553.9	1236.6	930.6	642.9	417.0	244.8
22.5°	4617.0	3963.5	3300.7	2619.8	2039.8	1636.1	1309.0	994.3	696.0	452.1	266.9
20°	4857.7	4175.1	3513.0	2790.5	2169.7	1728.0	1376.0	1051.7	743.9	483.7	286.8
17.5°	5100.0	4369.1	3690.0	2964.6	2304.4	1809.8	1435.6	1102.8	786.5	511.9	304.5
15°	5432.7	4543.6	3842.7	3117.0	2422.3	1881.4	1487.7	1147.5	823.6	536.4	319.9
12.5°	5717.9	4693.0	3973.3	3247.1	2522.8	1942.3	1532.0	1185.5	855.2	557.2	333.0
10°	5953.6	4816.4	4081.0	3354.4	2605.7	1992.5	1568.5	1216.7	881.2	574.4	343.8
7.5°	6138.6	4913.1	4165.3	3438.3	2670.4	2031.8	1597.1	1241.1	901.5	587.7	352.2
5°	6271.6	4982.6	4225.9	3498.5	2716.9	2059.9	1617.5	1258.6	916.0	597.3	358.2
2.5°	6351.7	5024.4	4262.3	3534.8	2744.9	2076.9	1629.8	1269.1	924.8	603.1	361.8
0°	6378.5	5038.4	4274.5	3546.9	2754.2	2082.5	1633.9	1272.6	927.7	605.0	363.0
-2.5°	6351.7	5024.4	4262.3	3534.8	2744.9	2076.9	1629.8	1269.1	924.8	603.1	361.8
-5°	6271.6	4982.6	4225.9	3498.5	2716.9	2059.9	1617.5	1258.6	916.0	597.3	358.2
-7.5°	6138.6	4913.1	4165.3	3438.3	2670.4	2031.8	1597.1	1241.1	901.5	587.7	352.2
-10°	5953.6	4816.4	4081.0	3354.4	2605.7	1992.5	1568.5	1216.7	881.2	574.4	343.8
-12.5°	5717.9	4693.0	3973.3	3247.1	2522.8	1942.3	1532.0	1185.5	855.2	557.2	333.0
-15°	5432.7	4543.6	3842.7	3117.0	2422.3	1881.4	1487.7	1147.5	823.6	536.4	319.9
-17.5°	5100.0	4369.1	3690.0	2964.6	2304.4	1809.8	1435.6	1102.8	786.5	511.9	304.5
-20°	4857.7	4175.1	3513.0	2790.5	2169.7	1728.0	1376.0	1051.7	743.9	483.7	286.8



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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°	4617.0	3963.5	3300.7	2619.8	2039.8	1636.1	1309.0	994.3	696.0	452.1	266.9
-25°	4352.6	3730.6	3066.7	2437.5	1928.3	1553.9	1236.6	930.6	642.9	417.0	244.8
-27.5°	4075.6	3471.2	2812.0	2238.8	1806.7	1464.5	1159.2	865.2	589.8	378.5	220.6
-30°	3782.2	3174.6	2570.6	2043.7	1675.3	1367.8	1075.5	794.6	542.5	344.0	194.4
-32.5°	3463.0	2858.3	2322.2	1890.6	1553.9	1264.6	985.6	718.8	491.7	311.5	174.1
-35°	3103.4	2558.6	2066.7	1728.0	1433.3	1159.2	892.2	637.8	437.4	276.8	155.1
-37.5°	2730.2	2260.1	1881.4	1571.5	1306.0	1047.8	797.3	565.3	379.9	239.9	134.8
-40°	2396.0	1992.5	1687.2	1426.5	1176.7	930.6	697.3	497.5	331.2	200.9	113.5
-42.5°	2059.9	1775.4	1513.7	1275.0	1043.2	815.6	595.7	426.4	285.0	170.3	91.0
-45°	1819.8	1566.6	1344.4	1124.6	905.7	696.0	513.7	355.1	236.8	143.4	73.9
-47.5°	1584.3	1379.3	1173.9	969.0	770.8	580.1	428.5	299.2	187.0	115.3	65.3
-50°	1379.3	1190.4	1001.6	816.0	631.4	483.7	346.6	241.2	154.2	86.2	56.4
-52.5°	1173.9	1001.6	831.2	661.4	517.1	384.4	280.6	183.7	120.3	69.9	47.2
-55°	969.0	816.0	661.4	528.3	406.5	304.5	212.8	144.8	85.3	59.0	38.2
-57.5°	770.8	631.4	517.1	406.5	312.5	228.6	159.7	105.0	67.6	47.8	33.8
-60°	580.1	483.7	384.4	304.5	228.6	164.6	114.8	72.7	54.7	37.6	29.3
-62.5°	428.5	346.6	280.6	212.8	159.7	114.8	74.5	58.1	41.5	32.4	24.7
-65°	299.2	241.2	183.7	144.8	105.0	72.7	58.1	43.2	33.9	27.0	20.8
-67.5°	187.0	154.2	120.3	85.3	67.6	54.7	41.5	33.9	27.8	21.5	18.8
-70°	115.3	86.2	69.9	59.0	47.8	37.6	32.4	27.0	21.5	19.1	16.7
-72.5°	65.3	56.4	47.2	38.2	33.8	29.3	24.7	20.8	18.8	16.7	14.6
-75°	39.8	35.8	32.2	28.6	24.8	21.2	19.5	17.8	16.0	14.2	13.6
-77.5°	27.7	24.8	21.9	20.3	19.0	17.6	16.2	14.7	13.8	13.5	13.1
-80°	19.1	18.2	17.2	16.1	15.0	14.0	13.7	13.5	13.2	12.9	12.6
-82.5°	14.2	13.9	13.7	13.5	13.3	13.1	12.9	12.8	12.5	12.3	11.1
-85°	12.9	12.8	12.7	12.5	12.4	12.3	11.3	10.4	9.4	8.4	7.4
-87.5°	8.3	7.9	7.5	7.1	6.6	6.1	5.7	5.2	4.7	4.2	3.7
-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°	3.2	2.7	2.1	1.6	1.1	0.5	0.0
85°	6.4	5.3	4.3	3.2	2.1	1.1	0.0
82.5°	9.5	8.0	6.4	4.8	3.2	1.6	0.0
80°	12.4	10.6	8.5	6.4	4.3	2.1	0.0
77.5°	12.8	12.4	10.6	8.0	5.3	2.7	0.0
75°	13.2	12.8	12.4	9.5	6.4	3.2	0.0
72.5°	13.6	13.1	12.6	11.1	7.4	3.7	0.0
70°	14.2	13.5	12.9	12.3	8.4	4.2	0.0
67.5°	16.0	13.8	13.2	12.5	9.4	4.7	0.0
65°	17.8	14.7	13.5	12.8	10.4	5.2	0.0
62.5°	19.5	16.2	13.7	12.9	11.3	5.7	0.0
60°	21.2	17.6	14.0	13.1	12.3	6.1	0.0
57.5°	24.8	19.0	15.0	13.3	12.4	6.6	0.0
55°	28.6	20.3	16.1	13.5	12.5	7.1	0.0
52.5°	32.2	21.9	17.2	13.7	12.7	7.5	0.0
50°	35.8	24.8	18.2	13.9	12.8	7.9	0.0
47.5°	39.8	27.7	19.1	14.2	12.9	8.3	0.0
45°	47.1	30.4	20.1	14.9	13.0	8.7	0.0
42.5°	54.2	33.0	21.0	15.5	13.1	9.1	0.0
40°	60.9	35.5	22.4	16.2	13.2	9.4	0.0
37.5°	67.3	37.9	24.3	16.8	13.3	9.8	0.0
35°	73.4	42.0	26.1	17.4	13.4	10.1	0.0
32.5°	82.2	46.7	27.8	17.9	13.5	10.4	0.0
30°	97.4	51.1	29.4	18.4	13.5	10.7	0.0
27.5°	111.5	55.2	30.8	18.9	13.6	10.9	0.0
25°	124.4	59.0	32.2	19.3	13.7	11.1	0.0
22.5°	136.3	62.5	33.4	19.7	13.7	11.4	0.0
20°	146.9	65.6	34.5	20.1	13.8	11.6	0.0
17.5°	156.4	68.3	35.5	20.4	13.8	11.7	0.0
15°	164.6	70.7	36.3	20.6	13.9	11.9	0.0
12.5°	171.7	72.7	37.0	20.9	13.9	12.0	0.0
10°	177.4	74.4	37.6	21.1	13.9	12.1	0.0
7.5°	181.9	75.7	38.1	21.2	14.0	12.2	0.0
5°	185.1	76.7	38.4	21.3	14.0	12.3	0.0
2.5°	187.1	77.2	38.6	21.4	14.0	12.3	0.0
0°	187.7	77.4	38.7	21.4	14.0	12.3	0.0
-2.5°	187.1	77.2	38.6	21.4	14.0	12.3	0.0
-5°	185.1	76.7	38.4	21.3	14.0	12.3	0.0
-7.5°	181.9	75.7	38.1	21.2	14.0	12.2	0.0
-10°	177.4	74.4	37.6	21.1	13.9	12.1	0.0
-12.5°	171.7	72.7	37.0	20.9	13.9	12.0	0.0
-15°	164.6	70.7	36.3	20.6	13.9	11.9	0.0
-17.5°	156.4	68.3	35.5	20.4	13.8	11.7	0.0
-20°	146.9	65.6	34.5	20.1	13.8	11.6	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	136.3	62.5	33.4	19.7	13.7	11.4	0.0
-25°	124.4	59.0	32.2	19.3	13.7	11.1	0.0
-27.5°	111.5	55.2	30.8	18.9	13.6	10.9	0.0
-30°	97.4	51.1	29.4	18.4	13.5	10.7	0.0
-32.5°	82.2	46.7	27.8	17.9	13.5	10.4	0.0
-35°	73.4	42.0	26.1	17.4	13.4	10.1	0.0
-37.5°	67.3	37.9	24.3	16.8	13.3	9.8	0.0
-40°	60.9	35.5	22.4	16.2	13.2	9.4	0.0
-42.5°	54.2	33.0	21.0	15.5	13.1	9.1	0.0
-45°	47.1	30.4	20.1	14.9	13.0	8.7	0.0
-47.5°	39.8	27.7	19.1	14.2	12.9	8.3	0.0
-50°	35.8	24.8	18.2	13.9	12.8	7.9	0.0
-52.5°	32.2	21.9	17.2	13.7	12.7	7.5	0.0
-55°	28.6	20.3	16.1	13.5	12.5	7.1	0.0
-57.5°	24.8	19.0	15.0	13.3	12.4	6.6	0.0
-60°	21.2	17.6	14.0	13.1	12.3	6.1	0.0
-62.5°	19.5	16.2	13.7	12.9	11.3	5.7	0.0
-65°	17.8	14.7	13.5	12.8	10.4	5.2	0.0
-67.5°	16.0	13.8	13.2	12.5	9.4	4.7	0.0
-70°	14.2	13.5	12.9	12.3	8.4	4.2	0.0
-72.5°	13.6	13.1	12.6	11.1	7.4	3.7	0.0
-75°	13.2	12.8	12.4	9.5	6.4	3.2	0.0
-77.5°	12.8	12.4	10.6	8.0	5.3	2.7	0.0
-80°	12.4	10.6	8.5	6.4	4.3	2.1	0.0
-82.5°	9.5	8.0	6.4	4.8	3.2	1.6	0.0
-85°	6.4	5.3	4.3	3.2	2.1	1.1	0.0
-87.5°	3.2	2.7	2.1	1.6	1.1	0.5	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)