

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: P1212118 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-40-90-5S-HEG**

Issue Date: 11/14/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1212118 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/14/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: EPHESUS  
Catalog Number: EPH-LS12-1000R-40-90-5S-HEG  
Description: EPHESUS LS12 LUMINAIRE  
(12) 4000K, 90 CRI LEDS AND 5S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

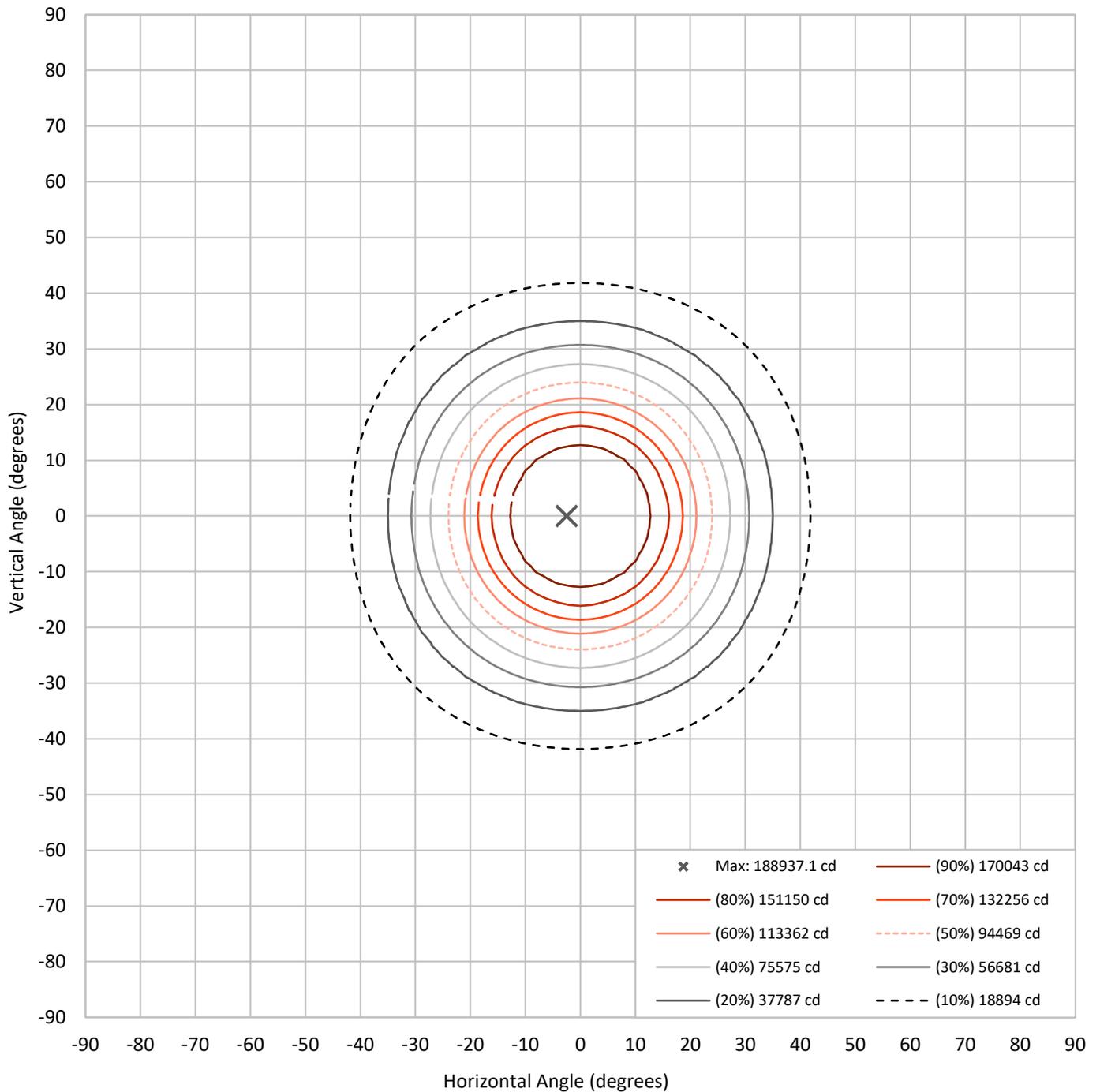
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	138200.2 lumens	Max Intensity:	188937.1 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	132.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	48°H x 47.7°V	Field Angle (10%):	83.7°H x 83.6°V
Beam Lumens:	78358.6 lumens	Field Lumens:	128547 lumens
Beam Efficiency:	56.7%	Field Efficiency:	93.0%
Input Watts (W):	1041		
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





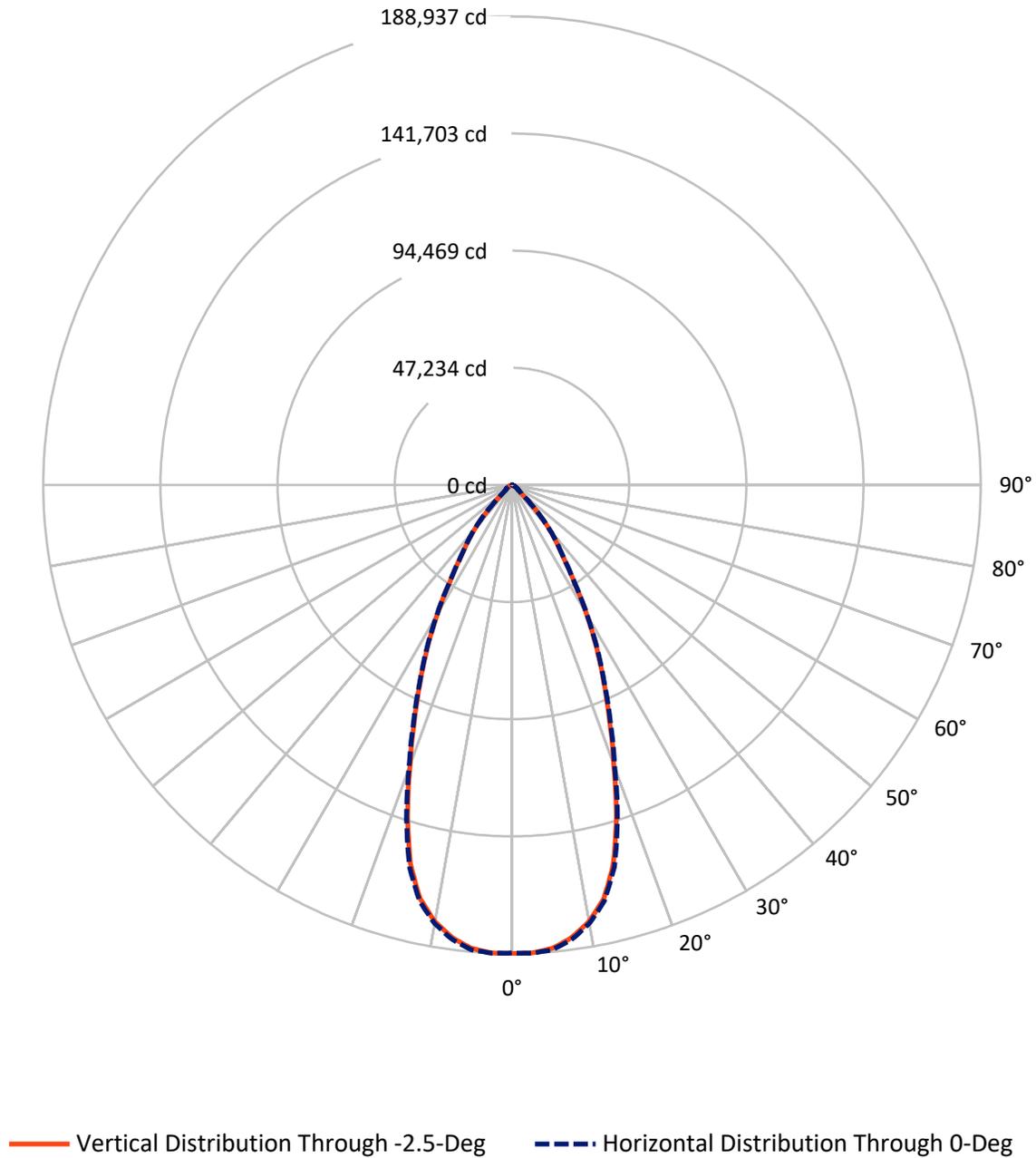
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### Lumen Table

90	0.1	0.9	3.9	9.5	12.4	9.5	3.9	0.9	0.1										
80	0.1	0.9	3.9	9.5	12.4	9.5	3.9	0.9	0.1										
70		0.6	2.4	6.8	14.2	23.1	31.0	35.5	35.5	31.0	23.1	14.2	6.8	2.4	0.6				
60	0.4	0.6	2.4	6.8	14.2	23.1	31.0	35.5	35.5	31.0	23.1	14.2	6.8	2.4	0.6	0.4			
50		1.8	8.1	22.0	41.7	61.2	75.6	83.6	83.6	75.6	61.2	41.7	22.0	8.1	1.8				
40	1.3	4.2	18.0	43.4	71.3	123.4	239.3	337.1	337.1	239.3	123.4	71.3	43.4	18.0	4.2	1.3			
30		7.6	29.6	61.7	165.8	503.3	883.0	1144.5	1144.5	883.0	503.3	165.8	61.7	29.6	7.6				
20	2.8	11.2	39.2	97.4	457.6	1093.7	1948.4	2591.0	2591.0	1948.4	1093.7	457.6	97.4	39.2	11.2	2.8			
10		14.1	45.4	179.1	754.0	1833.4	3334.2	4523.4	4523.4	3334.2	1833.4	754.0	179.1	45.4	14.1				
0	3.5	15.6	48.6	245.2	949.0	2366.9	4391.8	5544.2	5544.2	4391.8	2366.9	949.0	245.2	48.6	15.6	3.5			
-10		15.6	48.6	245.2	949.0	2366.9	4391.8	5544.2	5544.2	4391.8	2366.9	949.0	245.2	48.6	15.6				
-20	2.8	14.1	45.4	179.1	754.0	1833.4	3334.2	4523.4	4523.4	3334.2	1833.4	754.0	179.1	45.4	14.1	2.8			
-30		11.2	39.2	97.4	457.6	1093.7	1948.4	2591.0	2591.0	1948.4	1093.7	457.6	97.4	39.2	11.2				
-40	1.3	7.6	29.6	61.7	165.8	503.3	883.0	1144.5	1144.5	883.0	503.3	165.8	61.7	29.6	7.6	1.3			
-50		4.2	18.0	43.4	71.3	123.4	239.3	337.1	337.1	239.3	123.4	71.3	43.4	18.0	4.2				
-60	0.4	1.8	8.1	22.0	41.7	61.2	75.6	83.6	83.6	75.6	61.2	41.7	22.0	8.1	1.8	0.4			
-70		0.6	2.4	6.8	14.2	23.1	31.0	35.5	35.5	31.0	23.1	14.2	6.8	2.4	0.6				
-80	0.1	0.9	3.9	9.5	12.4	9.5	3.9	0.9	0.1										
-90	0.1	0.9	3.9	9.5	12.4	9.5	3.9	0.9	0.1										

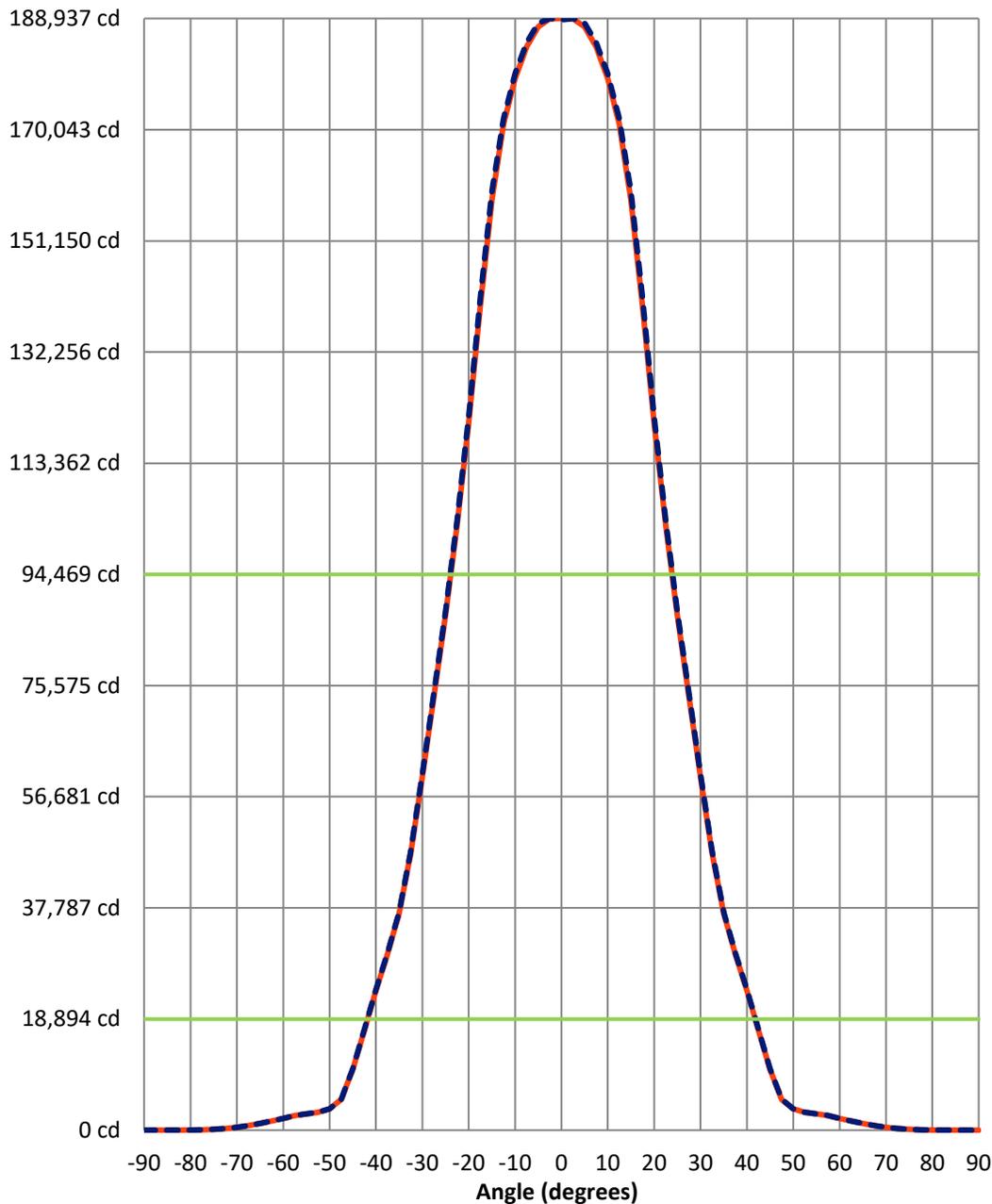
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 48°  
 V Angle: 47.7°  
 Lumens: 78358.6  
 Efficiency: 56.7%

**Field:**  
 H Angle: 83.7°  
 V Angle: 83.6°  
 Lumens: 128547  
 Efficiency: 93.0%

**Spill:**  
 Lumens: 9653.2  
 Efficiency: 7.0%

- Vertical Distribution through -2.5-Deg
- - - Horizontal Distribution through 0-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.7	3.1	3.5	3.8
85°	0.0	0.8	1.6	2.4	3.2	3.9	4.7	5.5	6.2	7.0	7.7
82.5°	0.0	1.2	2.4	3.6	4.7	5.9	7.0	8.2	9.1	9.3	9.5
80°	0.0	1.6	3.2	4.7	6.3	7.8	9.1	9.4	9.7	9.9	10.2
77.5°	0.0	2.0	3.9	5.9	7.8	9.2	9.6	9.9	10.2	10.5	11.4
75°	0.0	2.4	4.7	7.0	9.1	9.6	10.0	10.4	10.9	12.5	14.1
72.5°	0.0	2.7	5.5	8.2	9.4	9.9	10.4	11.2	13.1	14.9	16.8
70°	0.0	3.1	6.2	9.1	9.7	10.2	10.9	13.1	15.2	17.5	23.2
67.5°	0.0	3.5	7.0	9.3	9.9	10.5	12.5	14.9	17.5	24.0	30.4
65°	0.0	3.8	7.7	9.5	10.2	11.4	14.1	16.8	23.2	30.4	39.7
62.5°	0.0	4.2	8.4	9.7	10.4	12.6	15.6	20.8	28.8	38.0	53.9
60°	0.0	4.5	9.1	9.9	10.7	13.9	17.1	25.6	34.3	50.7	67.9
57.5°	0.0	4.9	9.2	10.1	11.6	15.1	20.9	30.3	44.1	63.0	93.0
55°	0.0	5.2	9.3	10.2	12.6	16.3	24.8	34.9	54.8	78.3	122.7
52.5°	0.0	5.5	9.4	10.4	13.5	17.8	28.6	43.5	65.3	104.4	151.7
50°	0.0	5.8	9.6	10.6	14.4	20.9	32.3	52.3	79.0	129.7	195.6
47.5°	0.0	6.1	9.7	10.9	15.3	23.9	36.4	60.9	100.7	154.1	240.0
45°	0.0	6.4	9.8	11.5	16.1	26.7	43.5	69.1	121.6	192.3	282.9
42.5°	0.0	6.7	9.9	12.1	16.9	29.5	50.2	82.6	141.7	229.2	341.7
40°	0.0	7.0	10.0	12.6	18.3	32.1	56.6	99.3	164.8	264.6	401.0
37.5°	0.0	7.2	10.0	13.2	20.3	34.6	62.8	115.3	194.6	302.9	457.4
35°	0.0	7.5	10.1	13.7	22.2	38.5	68.6	130.3	222.9	350.9	520.8
32.5°	0.0	7.7	10.2	14.2	24.0	43.1	76.0	144.5	249.5	396.1	595.5
30°	0.0	7.9	10.3	14.6	25.6	47.3	87.3	159.8	274.4	438.5	665.6
27.5°	0.0	8.1	10.3	15.1	27.1	51.2	97.8	179.9	301.8	477.8	730.8
25°	0.0	8.2	10.4	15.4	28.6	54.8	107.5	198.4	333.9	525.5	791.6
22.5°	0.0	8.4	10.5	15.8	29.8	58.1	116.3	215.4	363.1	574.5	860.1
20°	0.0	8.6	10.5	16.1	31.0	61.1	124.3	230.6	389.5	618.8	921.9
17.5°	0.0	8.7	10.6	16.4	32.0	63.7	131.3	244.1	412.9	658.1	976.9
15°	0.0	8.8	10.6	16.6	32.9	66.0	137.5	255.9	433.3	692.4	1025.0
12.5°	0.0	8.9	10.6	16.8	33.7	67.9	142.7	265.9	450.7	721.6	1065.8
10°	0.0	9.0	10.7	17.0	34.3	69.5	147.0	274.2	465.0	745.6	1099.4
7.5°	0.0	9.0	10.7	17.1	34.8	70.8	150.4	280.6	476.1	764.3	1125.7
5°	0.0	9.1	10.7	17.2	35.1	71.7	152.8	285.2	484.1	777.7	1144.5
2.5°	0.0	9.1	10.7	17.3	35.3	72.2	154.2	288.0	488.9	785.8	1155.8
0°	0.0	9.1	10.7	17.3	35.4	72.4	154.7	288.9	490.5	788.5	1159.6
-2.5°	0.0	9.1	10.7	17.3	35.3	72.2	154.2	288.0	488.9	785.8	1155.8
-5°	0.0	9.1	10.7	17.2	35.1	71.7	152.8	285.2	484.1	777.7	1144.5
-7.5°	0.0	9.0	10.7	17.1	34.8	70.8	150.4	280.6	476.1	764.3	1125.7
-10°	0.0	9.0	10.7	17.0	34.3	69.5	147.0	274.2	465.0	745.6	1099.4
-12.5°	0.0	8.9	10.6	16.8	33.7	67.9	142.7	265.9	450.7	721.6	1065.8
-15°	0.0	8.8	10.6	16.6	32.9	66.0	137.5	255.9	433.3	692.4	1025.0
-17.5°	0.0	8.7	10.6	16.4	32.0	63.7	131.3	244.1	412.9	658.1	976.9
-20°	0.0	8.6	10.5	16.1	31.0	61.1	124.3	230.6	389.5	618.8	921.9



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 CATALOG NUMBER: EPH-LS12-1000R-40-90-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	8.4	10.5	15.8	29.8	58.1	116.3	215.4	363.1	574.5	860.1
-25°	0.0	8.2	10.4	15.4	28.6	54.8	107.5	198.4	333.9	525.5	791.6
-27.5°	0.0	8.1	10.3	15.1	27.1	51.2	97.8	179.9	301.8	477.8	730.8
-30°	0.0	7.9	10.3	14.6	25.6	47.3	87.3	159.8	274.4	438.5	665.6
-32.5°	0.0	7.7	10.2	14.2	24.0	43.1	76.0	144.5	249.5	396.1	595.5
-35°	0.0	7.5	10.1	13.7	22.2	38.5	68.6	130.3	222.9	350.9	520.8
-37.5°	0.0	7.2	10.0	13.2	20.3	34.6	62.8	115.3	194.6	302.9	457.4
-40°	0.0	7.0	10.0	12.6	18.3	32.1	56.6	99.3	164.8	264.6	401.0
-42.5°	0.0	6.7	9.9	12.1	16.9	29.5	50.2	82.6	141.7	229.2	341.7
-45°	0.0	6.4	9.8	11.5	16.1	26.7	43.5	69.1	121.6	192.3	282.9
-47.5°	0.0	6.1	9.7	10.9	15.3	23.9	36.4	60.9	100.7	154.1	240.0
-50°	0.0	5.8	9.6	10.6	14.4	20.9	32.3	52.3	79.0	129.7	195.6
-52.5°	0.0	5.5	9.4	10.4	13.5	17.8	28.6	43.5	65.3	104.4	151.7
-55°	0.0	5.2	9.3	10.2	12.6	16.3	24.8	34.9	54.8	78.3	122.7
-57.5°	0.0	4.9	9.2	10.1	11.6	15.1	20.9	30.3	44.1	63.0	93.0
-60°	0.0	4.5	9.1	9.9	10.7	13.9	17.1	25.6	34.3	50.7	67.9
-62.5°	0.0	4.2	8.4	9.7	10.4	12.6	15.6	20.8	28.8	38.0	53.9
-65°	0.0	3.8	7.7	9.5	10.2	11.4	14.1	16.8	23.2	30.4	39.7
-67.5°	0.0	3.5	7.0	9.3	9.9	10.5	12.5	14.9	17.5	24.0	30.4
-70°	0.0	3.1	6.2	9.1	9.7	10.2	10.9	13.1	15.2	17.5	23.2
-72.5°	0.0	2.7	5.5	8.2	9.4	9.9	10.4	11.2	13.1	14.9	16.8
-75°	0.0	2.4	4.7	7.0	9.1	9.6	10.0	10.4	10.9	12.5	14.1
-77.5°	0.0	2.0	3.9	5.9	7.8	9.2	9.6	9.9	10.2	10.5	11.4
-80°	0.0	1.6	3.2	4.7	6.3	7.8	9.1	9.4	9.7	9.9	10.2
-82.5°	0.0	1.2	2.4	3.6	4.7	5.9	7.0	8.2	9.1	9.3	9.5
-85°	0.0	0.8	1.6	2.4	3.2	3.9	4.7	5.5	6.2	7.0	7.7
-87.5°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.7	3.1	3.5	3.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	4.5	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7.0	7.2
85°	8.4	9.1	9.2	9.3	9.4	9.6	9.7	9.8	9.9	10.0	10.0
82.5°	9.7	9.9	10.1	10.2	10.4	10.6	10.9	11.5	12.1	12.6	13.2
80°	10.4	10.7	11.6	12.6	13.5	14.4	15.3	16.1	16.9	18.3	20.3
77.5°	12.6	13.9	15.1	16.3	17.8	20.9	23.9	26.7	29.5	32.1	34.6
75°	15.6	17.1	20.9	24.8	28.6	32.3	36.4	43.5	50.2	56.6	62.8
72.5°	20.8	25.6	30.3	34.9	43.5	52.3	60.9	69.1	82.6	99.3	115.3
70°	28.8	34.3	44.1	54.8	65.3	79.0	100.7	121.6	141.7	164.8	194.6
67.5°	38.0	50.7	63.0	78.3	104.4	129.7	154.1	192.3	229.2	264.6	302.9
65°	53.9	67.9	93.0	122.7	151.7	195.6	240.0	282.9	341.7	401.0	457.4
62.5°	69.6	100.3	133.8	173.9	225.9	276.3	343.5	414.4	482.7	575.7	668.0
60°	100.3	137.5	186.0	244.1	306.7	389.5	469.7	574.5	685.0	791.6	917.7
57.5°	133.8	186.0	250.2	325.2	417.3	514.9	643.6	768.1	912.7	1056.4	1197.3
55°	173.9	244.1	325.2	426.6	542.5	685.4	832.9	1000.4	1162.4	1333.4	1497.3
52.5°	225.9	306.7	417.3	542.5	699.3	868.0	1053.4	1240.7	1432.0	1620.2	1811.2
50°	276.3	389.5	514.9	685.4	868.0	1071.2	1280.1	1491.7	1707.0	1920.5	2140.0
47.5°	343.5	469.7	643.6	832.9	1053.4	1280.1	1511.7	1750.7	1986.8	2240.2	2486.7
45°	414.4	574.5	768.1	1000.4	1240.7	1491.7	1750.7	2009.0	2290.7	2537.7	2686.2
42.5°	482.7	685.0	912.7	1162.4	1432.0	1707.0	1986.8	2290.7	2552.3	2715.7	2869.3
40°	575.7	791.6	1056.4	1333.4	1620.2	1920.5	2240.2	2537.7	2715.7	2883.7	3043.1
37.5°	668.0	917.7	1197.3	1497.3	1811.2	2140.0	2486.7	2686.2	2869.3	3043.1	3409.0
35°	755.7	1037.6	1341.2	1660.3	1993.5	2360.1	2627.7	2826.6	3013.9	3375.7	3992.8
32.5°	850.7	1150.9	1477.4	1820.3	2185.8	2541.1	2754.7	2956.0	3276.4	3806.0	4950.3
30°	947.5	1267.2	1608.5	1970.9	2369.0	2652.8	2870.5	3113.0	3569.1	4664.5	7137.8
27.5°	1037.6	1376.4	1737.7	2124.3	2524.8	2757.6	2978.0	3370.5	4194.9	5907.0	9886.7
25°	1120.9	1477.4	1857.4	2270.8	2614.7	2851.6	3111.6	3610.8	4904.6	8320.4	13058.6
22.5°	1200.7	1570.0	1967.0	2405.3	2697.4	2936.9	3317.3	4160.8	6176.7	10590.5	16164.3
20°	1276.4	1660.3	2073.3	2517.2	2772.3	3014.5	3504.5	4717.0	8080.3	13240.3	19047.1
17.5°	1343.8	1740.8	2172.7	2578.7	2836.7	3124.5	3720.1	5216.6	9793.4	15630.9	21668.4
15°	1402.6	1811.2	2259.6	2632.5	2892.7	3260.2	4125.6	6478.0	11552.5	17754.1	23987.2
12.5°	1452.7	1871.2	2333.8	2678.4	2940.5	3376.4	4473.0	7674.8	13230.3	19603.1	25828.2
10°	1494.0	1920.5	2394.8	2716.3	2980.0	3472.4	4760.3	8665.8	14621.8	21139.4	27361.3
7.5°	1526.2	1959.1	2442.6	2746.0	3010.9	3547.6	4985.7	9444.1	15716.2	22349.6	28571.3
5°	1549.3	1986.8	2476.9	2767.2	3033.1	3601.7	5147.7	10004.2	16504.5	23222.4	29445.2
2.5°	1563.2	2003.4	2497.5	2780.0	3046.4	3634.2	5245.4	10341.9	16980.3	23749.6	29973.6
0°	1567.8	2009.0	2504.4	2784.3	3050.9	3645.1	5278.0	10454.8	17139.3	23925.9	30150.4
-2.5°	1563.2	2003.4	2497.5	2780.0	3046.4	3634.2	5245.4	10341.9	16980.3	23749.6	29973.6
-5°	1549.3	1986.8	2476.9	2767.2	3033.1	3601.7	5147.7	10004.2	16504.5	23222.4	29445.2
-7.5°	1526.2	1959.1	2442.6	2746.0	3010.9	3547.6	4985.7	9444.1	15716.2	22349.6	28571.3
-10°	1494.0	1920.5	2394.8	2716.3	2980.0	3472.4	4760.3	8665.8	14621.8	21139.4	27361.3
-12.5°	1452.7	1871.2	2333.8	2678.4	2940.5	3376.4	4473.0	7674.8	13230.3	19603.1	25828.2
-15°	1402.6	1811.2	2259.6	2632.5	2892.7	3260.2	4125.6	6478.0	11552.5	17754.1	23987.2
-17.5°	1343.8	1740.8	2172.7	2578.7	2836.7	3124.5	3720.1	5216.6	9793.4	15630.9	21668.4
-20°	1276.4	1660.3	2073.3	2517.2	2772.3	3014.5	3504.5	4717.0	8080.3	13240.3	19047.1



REPORT NUMBER: P1212118 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-1000R-40-90-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1200.7	1570.0	1967.0	2405.3	2697.4	2936.9	3317.3	4160.8	6176.7	10590.5	16164.3
-25°	1120.9	1477.4	1857.4	2270.8	2614.7	2851.6	3111.6	3610.8	4904.6	8320.4	13058.6
-27.5°	1037.6	1376.4	1737.7	2124.3	2524.8	2757.6	2978.0	3370.5	4194.9	5907.0	9886.7
-30°	947.5	1267.2	1608.5	1970.9	2369.0	2652.8	2870.5	3113.0	3569.1	4664.5	7137.8
-32.5°	850.7	1150.9	1477.4	1820.3	2185.8	2541.1	2754.7	2956.0	3276.4	3806.0	4950.3
-35°	755.7	1037.6	1341.2	1660.3	1993.5	2360.1	2627.7	2826.6	3013.9	3375.7	3992.8
-37.5°	668.0	917.7	1197.3	1497.3	1811.2	2140.0	2486.7	2686.2	2869.3	3043.1	3409.0
-40°	575.7	791.6	1056.4	1333.4	1620.2	1920.5	2240.2	2537.7	2715.7	2883.7	3043.1
-42.5°	482.7	685.0	912.7	1162.4	1432.0	1707.0	1986.8	2290.7	2552.3	2715.7	2869.3
-45°	414.4	574.5	768.1	1000.4	1240.7	1491.7	1750.7	2009.0	2290.7	2537.7	2686.2
-47.5°	343.5	469.7	643.6	832.9	1053.4	1280.1	1511.7	1750.7	1986.8	2240.2	2486.7
-50°	276.3	389.5	514.9	685.4	868.0	1071.2	1280.1	1491.7	1707.0	1920.5	2140.0
-52.5°	225.9	306.7	417.3	542.5	699.3	868.0	1053.4	1240.7	1432.0	1620.2	1811.2
-55°	173.9	244.1	325.2	426.6	542.5	685.4	832.9	1000.4	1162.4	1333.4	1497.3
-57.5°	133.8	186.0	250.2	325.2	417.3	514.9	643.6	768.1	912.7	1056.4	1197.3
-60°	100.3	137.5	186.0	244.1	306.7	389.5	469.7	574.5	685.0	791.6	917.7
-62.5°	69.6	100.3	133.8	173.9	225.9	276.3	343.5	414.4	482.7	575.7	668.0
-65°	53.9	67.9	93.0	122.7	151.7	195.6	240.0	282.9	341.7	401.0	457.4
-67.5°	38.0	50.7	63.0	78.3	104.4	129.7	154.1	192.3	229.2	264.6	302.9
-70°	28.8	34.3	44.1	54.8	65.3	79.0	100.7	121.6	141.7	164.8	194.6
-72.5°	20.8	25.6	30.3	34.9	43.5	52.3	60.9	69.1	82.6	99.3	115.3
-75°	15.6	17.1	20.9	24.8	28.6	32.3	36.4	43.5	50.2	56.6	62.8
-77.5°	12.6	13.9	15.1	16.3	17.8	20.9	23.9	26.7	29.5	32.1	34.6
-80°	10.4	10.7	11.6	12.6	13.5	14.4	15.3	16.1	16.9	18.3	20.3
-82.5°	9.7	9.9	10.1	10.2	10.4	10.6	10.9	11.5	12.1	12.6	13.2
-85°	8.4	9.1	9.2	9.3	9.4	9.6	9.7	9.8	9.9	10.0	10.0
-87.5°	4.2	4.5	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7.0	7.2
-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: P1212118 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	7.7	7.9	8.1	8.2	8.4	8.6	8.7	8.8	8.9	9.0
85°	10.1	10.2	10.3	10.3	10.4	10.5	10.5	10.6	10.6	10.6	10.7
82.5°	13.7	14.2	14.6	15.1	15.4	15.8	16.1	16.4	16.6	16.8	17.0
80°	22.2	24.0	25.6	27.1	28.6	29.8	31.0	32.0	32.9	33.7	34.3
77.5°	38.5	43.1	47.3	51.2	54.8	58.1	61.1	63.7	66.0	67.9	69.5
75°	68.6	76.0	87.3	97.8	107.5	116.3	124.3	131.3	137.5	142.7	147.0
72.5°	130.3	144.5	159.8	179.9	198.4	215.4	230.6	244.1	255.9	265.9	274.2
70°	222.9	249.5	274.4	301.8	333.9	363.1	389.5	412.9	433.3	450.7	465.0
67.5°	350.9	396.1	438.5	477.8	525.5	574.5	618.8	658.1	692.4	721.6	745.6
65°	520.8	595.5	665.6	730.8	791.6	860.1	921.9	976.9	1025.0	1065.8	1099.4
62.5°	755.7	850.7	947.5	1037.6	1120.9	1200.7	1276.4	1343.8	1402.6	1452.7	1494.0
60°	1037.6	1150.9	1267.2	1376.4	1477.4	1570.0	1660.3	1740.8	1811.2	1871.2	1920.5
57.5°	1341.2	1477.4	1608.5	1737.7	1857.4	1967.0	2073.3	2172.7	2259.6	2333.8	2394.8
55°	1660.3	1820.3	1970.9	2124.3	2270.8	2405.3	2517.2	2578.7	2632.5	2678.4	2716.3
52.5°	1993.5	2185.8	2369.0	2524.8	2614.7	2697.4	2772.3	2836.7	2892.7	2940.5	2980.0
50°	2360.1	2541.1	2652.8	2757.6	2851.6	2936.9	3014.5	3124.5	3260.2	3376.4	3472.4
47.5°	2627.7	2754.7	2870.5	2978.0	3111.6	3317.3	3504.5	3720.1	4125.6	4473.0	4760.3
45°	2826.6	2956.0	3113.0	3370.5	3610.8	4160.8	4717.0	5216.6	6478.0	7674.8	8665.8
42.5°	3013.9	3276.4	3569.1	4194.9	4904.6	6176.7	8080.3	9793.4	11552.5	13230.3	14621.8
40°	3375.7	3806.0	4664.5	5907.0	8320.4	10590.5	13240.3	15630.9	17754.1	19603.1	21139.4
37.5°	3992.8	4950.3	7137.8	9886.7	13058.6	16164.3	19047.1	21668.4	23987.2	25828.2	27361.3
35°	5046.2	7760.1	10953.9	14737.8	18324.5	21707.2	24751.4	27347.3	29656.3	31832.2	33697.2
32.5°	7760.1	11368.0	15588.0	19652.6	23521.9	26880.5	29957.3	33065.2	35859.7	38865.0	41888.0
30°	10953.9	15588.0	20099.3	24399.4	28183.7	31930.0	35624.8	39929.5	44432.6	48612.4	52803.4
27.5°	14737.8	19652.6	24399.4	28622.6	32944.0	37242.4	43142.3	48871.2	55070.4	60507.9	65335.5
25°	18324.5	23521.9	28183.7	32944.0	38030.3	44779.9	52104.4	59535.6	66565.8	72814.6	78149.0
22.5°	21707.2	26880.5	31930.0	37242.4	44779.9	53197.6	61886.2	70323.7	78050.5	84941.8	91156.2
20°	24751.4	29957.3	35624.8	43142.3	52104.4	61886.2	71598.2	80748.8	89310.1	97771.2	105278.3
17.5°	27347.3	33065.2	39929.5	48871.2	59535.6	70323.7	80748.8	90927.4	101200.8	111464.7	120729.3
15°	29656.3	35859.7	44432.6	55070.4	66565.8	78050.5	89310.1	101200.8	113586.6	125838.1	137663.7
12.5°	31832.2	38865.0	48612.4	60507.9	72814.6	84941.8	97771.2	111464.7	125838.1	140536.0	152543.6
10°	33697.2	41888.0	52803.4	65335.5	78149.0	91156.2	105278.3	120729.3	137663.7	152543.6	164676.1
7.5°	35172.4	44285.7	56138.8	69194.8	82442.6	96489.7	112067.8	129380.6	146948.7	162109.3	171932.8
5°	36239.9	46024.6	58564.4	72011.1	85589.7	100421.8	117111.9	135934.3	153734.1	167870.1	176337.3
2.5°	36886.0	47078.8	60037.9	73726.0	87512.3	102834.1	120224.5	140011.5	158006.3	170928.1	178725.9
0°	37102.4	47432.1	60532.1	74302.0	88159.1	103647.5	121277.3	141396.8	159467.8	171846.3	179540.3
-2.5°	36886.0	47078.8	60037.9	73726.0	87512.3	102834.1	120224.5	140011.5	158006.3	170928.1	178725.9
-5°	36239.9	46024.6	58564.4	72011.1	85589.7	100421.8	117111.9	135934.3	153734.1	167870.1	176337.3
-7.5°	35172.4	44285.7	56138.8	69194.8	82442.6	96489.7	112067.8	129380.6	146948.7	162109.3	171932.8
-10°	33697.2	41888.0	52803.4	65335.5	78149.0	91156.2	105278.3	120729.3	137663.7	152543.6	164676.1
-12.5°	31832.2	38865.0	48612.4	60507.9	72814.6	84941.8	97771.2	111464.7	125838.1	140536.0	152543.6
-15°	29656.3	35859.7	44432.6	55070.4	66565.8	78050.5	89310.1	101200.8	113586.6	125838.1	137663.7
-17.5°	27347.3	33065.2	39929.5	48871.2	59535.6	70323.7	80748.8	90927.4	101200.8	111464.7	120729.3
-20°	24751.4	29957.3	35624.8	43142.3	52104.4	61886.2	71598.2	80748.8	89310.1	97771.2	105278.3



REPORT NUMBER: P1212118 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	21707.2	26880.5	31930.0	37242.4	44779.9	53197.6	61886.2	70323.7	78050.5	84941.8	91156.2
-25°	18324.5	23521.9	28183.7	32944.0	38030.3	44779.9	52104.4	59535.6	66565.8	72814.6	78149.0
-27.5°	14737.8	19652.6	24399.4	28622.6	32944.0	37242.4	43142.3	48871.2	55070.4	60507.9	65335.5
-30°	10953.9	15588.0	20099.3	24399.4	28183.7	31930.0	35624.8	39929.5	44432.6	48612.4	52803.4
-32.5°	7760.1	11368.0	15588.0	19652.6	23521.9	26880.5	29957.3	33065.2	35859.7	38865.0	41888.0
-35°	5046.2	7760.1	10953.9	14737.8	18324.5	21707.2	24751.4	27347.3	29656.3	31832.2	33697.2
-37.5°	3992.8	4950.3	7137.8	9886.7	13058.6	16164.3	19047.1	21668.4	23987.2	25828.2	27361.3
-40°	3375.7	3806.0	4664.5	5907.0	8320.4	10590.5	13240.3	15630.9	17754.1	19603.1	21139.4
-42.5°	3013.9	3276.4	3569.1	4194.9	4904.6	6176.7	8080.3	9793.4	11552.5	13230.3	14621.8
-45°	2826.6	2956.0	3113.0	3370.5	3610.8	4160.8	4717.0	5216.6	6478.0	7674.8	8665.8
-47.5°	2627.7	2754.7	2870.5	2978.0	3111.6	3317.3	3504.5	3720.1	4125.6	4473.0	4760.3
-50°	2360.1	2541.1	2652.8	2757.6	2851.6	2936.9	3014.5	3124.5	3260.2	3376.4	3472.4
-52.5°	1993.5	2185.8	2369.0	2524.8	2614.7	2697.4	2772.3	2836.7	2892.7	2940.5	2980.0
-55°	1660.3	1820.3	1970.9	2124.3	2270.8	2405.3	2517.2	2578.7	2632.5	2678.4	2716.3
-57.5°	1341.2	1477.4	1608.5	1737.7	1857.4	1967.0	2073.3	2172.7	2259.6	2333.8	2394.8
-60°	1037.6	1150.9	1267.2	1376.4	1477.4	1570.0	1660.3	1740.8	1811.2	1871.2	1920.5
-62.5°	755.7	850.7	947.5	1037.6	1120.9	1200.7	1276.4	1343.8	1402.6	1452.7	1494.0
-65°	520.8	595.5	665.6	730.8	791.6	860.1	921.9	976.9	1025.0	1065.8	1099.4
-67.5°	350.9	396.1	438.5	477.8	525.5	574.5	618.8	658.1	692.4	721.6	745.6
-70°	222.9	249.5	274.4	301.8	333.9	363.1	389.5	412.9	433.3	450.7	465.0
-72.5°	130.3	144.5	159.8	179.9	198.4	215.4	230.6	244.1	255.9	265.9	274.2
-75°	68.6	76.0	87.3	97.8	107.5	116.3	124.3	131.3	137.5	142.7	147.0
-77.5°	38.5	43.1	47.3	51.2	54.8	58.1	61.1	63.7	66.0	67.9	69.5
-80°	22.2	24.0	25.6	27.1	28.6	29.8	31.0	32.0	32.9	33.7	34.3
-82.5°	13.7	14.2	14.6	15.1	15.4	15.8	16.1	16.4	16.6	16.8	17.0
-85°	10.1	10.2	10.3	10.3	10.4	10.5	10.5	10.6	10.6	10.6	10.7
-87.5°	7.5	7.7	7.9	8.1	8.2	8.4	8.6	8.7	8.8	8.9	9.0
-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: P1212118 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-100R-40-90-5S-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°	9.0	9.1	9.1	9.1	9.1	9.1	9.0	9.0	8.9	8.8	8.7
85°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.6	10.6	10.6
82.5°	17.1	17.2	17.3	17.3	17.3	17.2	17.1	17.0	16.8	16.6	16.4
80°	34.8	35.1	35.3	35.4	35.3	35.1	34.8	34.3	33.7	32.9	32.0
77.5°	70.8	71.7	72.2	72.4	72.2	71.7	70.8	69.5	67.9	66.0	63.7
75°	150.4	152.8	154.2	154.7	154.2	152.8	150.4	147.0	142.7	137.5	131.3
72.5°	280.6	285.2	288.0	288.9	288.0	285.2	280.6	274.2	265.9	255.9	244.1
70°	476.1	484.1	488.9	490.5	488.9	484.1	476.1	465.0	450.7	433.3	412.9
67.5°	764.3	777.7	785.8	788.5	785.8	777.7	764.3	745.6	721.6	692.4	658.1
65°	1125.7	1144.5	1155.8	1159.6	1155.8	1144.5	1125.7	1099.4	1065.8	1025.0	976.9
62.5°	1526.2	1549.3	1563.2	1567.8	1563.2	1549.3	1526.2	1494.0	1452.7	1402.6	1343.8
60°	1959.1	1986.8	2003.4	2009.0	2003.4	1986.8	1959.1	1920.5	1871.2	1811.2	1740.8
57.5°	2442.6	2476.9	2497.5	2504.4	2497.5	2476.9	2442.6	2394.8	2333.8	2259.6	2172.7
55°	2746.0	2767.2	2780.0	2784.3	2780.0	2767.2	2746.0	2716.3	2678.4	2632.5	2578.7
52.5°	3010.9	3033.1	3046.4	3050.9	3046.4	3033.1	3010.9	2980.0	2940.5	2892.7	2836.7
50°	3547.6	3601.7	3634.2	3645.1	3634.2	3601.7	3547.6	3472.4	3376.4	3260.2	3124.5
47.5°	4985.7	5147.7	5245.4	5278.0	5245.4	5147.7	4985.7	4760.3	4473.0	4125.6	3720.1
45°	9444.1	10004.2	10341.9	10454.8	10341.9	10004.2	9444.1	8665.8	7674.8	6478.0	5216.6
42.5°	15716.2	16504.5	16980.3	17139.3	16980.3	16504.5	15716.2	14621.8	13230.3	11552.5	9793.4
40°	22349.6	23222.4	23749.6	23925.9	23749.6	23222.4	22349.6	21139.4	19603.1	17754.1	15630.9
37.5°	28571.3	29445.2	29973.6	30150.4	29973.6	29445.2	28571.3	27361.3	25828.2	23987.2	21668.4
35°	35172.4	36239.9	36886.0	37102.4	36886.0	36239.9	35172.4	33697.2	31832.2	29656.3	27347.3
32.5°	44285.7	46024.6	47078.8	47432.1	47078.8	46024.6	44285.7	41888.0	38865.0	35859.7	33065.2
30°	56138.8	58564.4	60037.9	60532.1	60037.9	58564.4	56138.8	52803.4	48612.4	44432.6	39929.5
27.5°	69194.8	72011.1	73726.0	74302.0	73726.0	72011.1	69194.8	65335.5	60507.9	55070.4	48871.2
25°	82442.6	85589.7	87512.3	88159.1	87512.3	85589.7	82442.6	78149.0	72814.6	66565.8	59535.6
22.5°	96489.7	100421.8	102834.1	103647.5	102834.1	100421.8	96489.7	91156.2	84941.8	78050.5	70323.7
20°	112067.8	117111.9	120224.5	121277.3	120224.5	117111.9	112067.8	105278.3	97771.2	89310.1	80748.8
17.5°	129380.6	135934.3	140011.5	141396.8	140011.5	135934.3	129380.6	120729.3	111464.7	101200.8	90927.4
15°	146948.7	153734.1	158006.3	159467.8	158006.3	153734.1	146948.7	137663.7	125838.1	113586.6	101200.8
12.5°	162109.3	167870.1	170928.1	171846.3	170928.1	167870.1	162109.3	152543.6	140536.0	125838.1	111464.7
10°	171932.8	176337.3	178725.9	179540.3	178725.9	176337.3	171932.8	164676.1	152543.6	137663.7	120729.3
7.5°	177959.4	181945.6	184122.9	184845.5	184122.9	181945.6	177959.4	171932.8	162109.3	146948.7	129380.6
5°	181945.6	185621.7	187525.2	188142.5	187525.2	185621.7	181945.6	176337.3	167870.1	153734.1	135934.3
2.5°	184122.9	187525.2	188901.1	188937.1	188901.1	187525.2	184122.9	178725.9	170928.1	158006.3	140011.5
0°	184845.5	188142.5	188937.1	188707.9	188937.1	188142.5	184845.5	179540.3	171846.3	159467.8	141396.8
-2.5°	184122.9	187525.2	188901.1	188937.1	188901.1	187525.2	184122.9	178725.9	170928.1	158006.3	140011.5
-5°	181945.6	185621.7	187525.2	188142.5	187525.2	185621.7	181945.6	176337.3	167870.1	153734.1	135934.3
-7.5°	177959.4	181945.6	184122.9	184845.5	184122.9	181945.6	177959.4	171932.8	162109.3	146948.7	129380.6
-10°	171932.8	176337.3	178725.9	179540.3	178725.9	176337.3	171932.8	164676.1	152543.6	137663.7	120729.3
-12.5°	162109.3	167870.1	170928.1	171846.3	170928.1	167870.1	162109.3	152543.6	140536.0	125838.1	111464.7
-15°	146948.7	153734.1	158006.3	159467.8	158006.3	153734.1	146948.7	137663.7	125838.1	113586.6	101200.8
-17.5°	129380.6	135934.3	140011.5	141396.8	140011.5	135934.3	129380.6	120729.3	111464.7	101200.8	90927.4
-20°	112067.8	117111.9	120224.5	121277.3	120224.5	117111.9	112067.8	105278.3	97771.2	89310.1	80748.8



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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	96489.7	100421.8	102834.1	103647.5	102834.1	100421.8	96489.7	91156.2	84941.8	78050.5	70323.7
-25°	82442.6	85589.7	87512.3	88159.1	87512.3	85589.7	82442.6	78149.0	72814.6	66565.8	59535.6
-27.5°	69194.8	72011.1	73726.0	74302.0	73726.0	72011.1	69194.8	65335.5	60507.9	55070.4	48871.2
-30°	56138.8	58564.4	60037.9	60532.1	60037.9	58564.4	56138.8	52803.4	48612.4	44432.6	39929.5
-32.5°	44285.7	46024.6	47078.8	47432.1	47078.8	46024.6	44285.7	41888.0	38865.0	35859.7	33065.2
-35°	35172.4	36239.9	36886.0	37102.4	36886.0	36239.9	35172.4	33697.2	31832.2	29656.3	27347.3
-37.5°	28571.3	29445.2	29973.6	30150.4	29973.6	29445.2	28571.3	27361.3	25828.2	23987.2	21668.4
-40°	22349.6	23222.4	23749.6	23925.9	23749.6	23222.4	22349.6	21139.4	19603.1	17754.1	15630.9
-42.5°	15716.2	16504.5	16980.3	17139.3	16980.3	16504.5	15716.2	14621.8	13230.3	11552.5	9793.4
-45°	9444.1	10004.2	10341.9	10454.8	10341.9	10004.2	9444.1	8665.8	7674.8	6478.0	5216.6
-47.5°	4985.7	5147.7	5245.4	5278.0	5245.4	5147.7	4985.7	4760.3	4473.0	4125.6	3720.1
-50°	3547.6	3601.7	3634.2	3645.1	3634.2	3601.7	3547.6	3472.4	3376.4	3260.2	3124.5
-52.5°	3010.9	3033.1	3046.4	3050.9	3046.4	3033.1	3010.9	2980.0	2940.5	2892.7	2836.7
-55°	2746.0	2767.2	2780.0	2784.3	2780.0	2767.2	2746.0	2716.3	2678.4	2632.5	2578.7
-57.5°	2442.6	2476.9	2497.5	2504.4	2497.5	2476.9	2442.6	2394.8	2333.8	2259.6	2172.7
-60°	1959.1	1986.8	2003.4	2009.0	2003.4	1986.8	1959.1	1920.5	1871.2	1811.2	1740.8
-62.5°	1526.2	1549.3	1563.2	1567.8	1563.2	1549.3	1526.2	1494.0	1452.7	1402.6	1343.8
-65°	1125.7	1144.5	1155.8	1159.6	1155.8	1144.5	1125.7	1099.4	1065.8	1025.0	976.9
-67.5°	764.3	777.7	785.8	788.5	785.8	777.7	764.3	745.6	721.6	692.4	658.1
-70°	476.1	484.1	488.9	490.5	488.9	484.1	476.1	465.0	450.7	433.3	412.9
-72.5°	280.6	285.2	288.0	288.9	288.0	285.2	280.6	274.2	265.9	255.9	244.1
-75°	150.4	152.8	154.2	154.7	154.2	152.8	150.4	147.0	142.7	137.5	131.3
-77.5°	70.8	71.7	72.2	72.4	72.2	71.7	70.8	69.5	67.9	66.0	63.7
-80°	34.8	35.1	35.3	35.4	35.3	35.1	34.8	34.3	33.7	32.9	32.0
-82.5°	17.1	17.2	17.3	17.3	17.3	17.2	17.1	17.0	16.8	16.6	16.4
-85°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.6	10.6	10.6
-87.5°	9.0	9.1	9.1	9.1	9.1	9.1	9.0	9.0	8.9	8.8	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



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	8.4	8.2	8.1	7.9	7.7	7.5	7.2	7.0	6.7	6.4
85°	10.5	10.5	10.4	10.3	10.3	10.2	10.1	10.0	10.0	9.9	9.8
82.5°	16.1	15.8	15.4	15.1	14.6	14.2	13.7	13.2	12.6	12.1	11.5
80°	31.0	29.8	28.6	27.1	25.6	24.0	22.2	20.3	18.3	16.9	16.1
77.5°	61.1	58.1	54.8	51.2	47.3	43.1	38.5	34.6	32.1	29.5	26.7
75°	124.3	116.3	107.5	97.8	87.3	76.0	68.6	62.8	56.6	50.2	43.5
72.5°	230.6	215.4	198.4	179.9	159.8	144.5	130.3	115.3	99.3	82.6	69.1
70°	389.5	363.1	333.9	301.8	274.4	249.5	222.9	194.6	164.8	141.7	121.6
67.5°	618.8	574.5	525.5	477.8	438.5	396.1	350.9	302.9	264.6	229.2	192.3
65°	921.9	860.1	791.6	730.8	665.6	595.5	520.8	457.4	401.0	341.7	282.9
62.5°	1276.4	1200.7	1120.9	1037.6	947.5	850.7	755.7	668.0	575.7	482.7	414.4
60°	1660.3	1570.0	1477.4	1376.4	1267.2	1150.9	1037.6	917.7	791.6	685.0	574.5
57.5°	2073.3	1967.0	1857.4	1737.7	1608.5	1477.4	1341.2	1197.3	1056.4	912.7	768.1
55°	2517.2	2405.3	2270.8	2124.3	1970.9	1820.3	1660.3	1497.3	1333.4	1162.4	1000.4
52.5°	2772.3	2697.4	2614.7	2524.8	2369.0	2185.8	1993.5	1811.2	1620.2	1432.0	1240.7
50°	3014.5	2936.9	2851.6	2757.6	2652.8	2541.1	2360.1	2140.0	1920.5	1707.0	1491.7
47.5°	3504.5	3317.3	3111.6	2978.0	2870.5	2754.7	2627.7	2486.7	2240.2	1986.8	1750.7
45°	4717.0	4160.8	3610.8	3370.5	3113.0	2956.0	2826.6	2686.2	2537.7	2290.7	2009.0
42.5°	8080.3	6176.7	4904.6	4194.9	3569.1	3276.4	3013.9	2869.3	2715.7	2552.3	2290.7
40°	13240.3	10590.5	8320.4	5907.0	4664.5	3806.0	3375.7	3043.1	2883.7	2715.7	2537.7
37.5°	19047.1	16164.3	13058.6	9886.7	7137.8	4950.3	3992.8	3409.0	3043.1	2869.3	2686.2
35°	24751.4	21707.2	18324.5	14737.8	10953.9	7760.1	5046.2	3992.8	3375.7	3013.9	2826.6
32.5°	29957.3	26880.5	23521.9	19652.6	15588.0	11368.0	7760.1	4950.3	3806.0	3276.4	2956.0
30°	35624.8	31930.0	28183.7	24399.4	20099.3	15588.0	10953.9	7137.8	4664.5	3569.1	3113.0
27.5°	43142.3	37242.4	32944.0	28622.6	24399.4	19652.6	14737.8	9886.7	5907.0	4194.9	3370.5
25°	52104.4	44779.9	38030.3	32944.0	28183.7	23521.9	18324.5	13058.6	8320.4	4904.6	3610.8
22.5°	61886.2	53197.6	44779.9	37242.4	31930.0	26880.5	21707.2	16164.3	10590.5	6176.7	4160.8
20°	71598.2	61886.2	52104.4	43142.3	35624.8	29957.3	24751.4	19047.1	13240.3	8080.3	4717.0
17.5°	80748.8	70323.7	59535.6	48871.2	39929.5	33065.2	27347.3	21668.4	15630.9	9793.4	5216.6
15°	89310.1	78050.5	66565.8	55070.4	44432.6	35859.7	29656.3	23987.2	17754.1	11552.5	6478.0
12.5°	97771.2	84941.8	72814.6	60507.9	48612.4	38865.0	31832.2	25828.2	19603.1	13230.3	7674.8
10°	105278.3	91156.2	78149.0	65335.5	52803.4	41888.0	33697.2	27361.3	21139.4	14621.8	8665.8
7.5°	112067.8	96489.7	82442.6	69194.8	56138.8	44285.7	35172.4	28571.3	22349.6	15716.2	9444.1
5°	117111.9	100421.8	85589.7	72011.1	58564.4	46024.6	36239.9	29445.2	23222.4	16504.5	10004.2
2.5°	120224.5	102834.1	87512.3	73726.0	60037.9	47078.8	36886.0	29973.6	23749.6	16980.3	10341.9
0°	121277.3	103647.5	88159.1	74302.0	60532.1	47432.1	37102.4	30150.4	23925.9	17139.3	10454.8
-2.5°	120224.5	102834.1	87512.3	73726.0	60037.9	47078.8	36886.0	29973.6	23749.6	16980.3	10341.9
-5°	117111.9	100421.8	85589.7	72011.1	58564.4	46024.6	36239.9	29445.2	23222.4	16504.5	10004.2
-7.5°	112067.8	96489.7	82442.6	69194.8	56138.8	44285.7	35172.4	28571.3	22349.6	15716.2	9444.1
-10°	105278.3	91156.2	78149.0	65335.5	52803.4	41888.0	33697.2	27361.3	21139.4	14621.8	8665.8
-12.5°	97771.2	84941.8	72814.6	60507.9	48612.4	38865.0	31832.2	25828.2	19603.1	13230.3	7674.8
-15°	89310.1	78050.5	66565.8	55070.4	44432.6	35859.7	29656.3	23987.2	17754.1	11552.5	6478.0
-17.5°	80748.8	70323.7	59535.6	48871.2	39929.5	33065.2	27347.3	21668.4	15630.9	9793.4	5216.6
-20°	71598.2	61886.2	52104.4	43142.3	35624.8	29957.3	24751.4	19047.1	13240.3	8080.3	4717.0



REPORT NUMBER: P1212118 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	61886.2	53197.6	44779.9	37242.4	31930.0	26880.5	21707.2	16164.3	10590.5	6176.7	4160.8
-25°	52104.4	44779.9	38030.3	32944.0	28183.7	23521.9	18324.5	13058.6	8320.4	4904.6	3610.8
-27.5°	43142.3	37242.4	32944.0	28622.6	24399.4	19652.6	14737.8	9886.7	5907.0	4194.9	3370.5
-30°	35624.8	31930.0	28183.7	24399.4	20099.3	15588.0	10953.9	7137.8	4664.5	3569.1	3113.0
-32.5°	29957.3	26880.5	23521.9	19652.6	15588.0	11368.0	7760.1	4950.3	3806.0	3276.4	2956.0
-35°	24751.4	21707.2	18324.5	14737.8	10953.9	7760.1	5046.2	3992.8	3375.7	3013.9	2826.6
-37.5°	19047.1	16164.3	13058.6	9886.7	7137.8	4950.3	3992.8	3409.0	3043.1	2869.3	2686.2
-40°	13240.3	10590.5	8320.4	5907.0	4664.5	3806.0	3375.7	3043.1	2883.7	2715.7	2537.7
-42.5°	8080.3	6176.7	4904.6	4194.9	3569.1	3276.4	3013.9	2869.3	2715.7	2552.3	2290.7
-45°	4717.0	4160.8	3610.8	3370.5	3113.0	2956.0	2826.6	2686.2	2537.7	2290.7	2009.0
-47.5°	3504.5	3317.3	3111.6	2978.0	2870.5	2754.7	2627.7	2486.7	2240.2	1986.8	1750.7
-50°	3014.5	2936.9	2851.6	2757.6	2652.8	2541.1	2360.1	2140.0	1920.5	1707.0	1491.7
-52.5°	2772.3	2697.4	2614.7	2524.8	2369.0	2185.8	1993.5	1811.2	1620.2	1432.0	1240.7
-55°	2517.2	2405.3	2270.8	2124.3	1970.9	1820.3	1660.3	1497.3	1333.4	1162.4	1000.4
-57.5°	2073.3	1967.0	1857.4	1737.7	1608.5	1477.4	1341.2	1197.3	1056.4	912.7	768.1
-60°	1660.3	1570.0	1477.4	1376.4	1267.2	1150.9	1037.6	917.7	791.6	685.0	574.5
-62.5°	1276.4	1200.7	1120.9	1037.6	947.5	850.7	755.7	668.0	575.7	482.7	414.4
-65°	921.9	860.1	791.6	730.8	665.6	595.5	520.8	457.4	401.0	341.7	282.9
-67.5°	618.8	574.5	525.5	477.8	438.5	396.1	350.9	302.9	264.6	229.2	192.3
-70°	389.5	363.1	333.9	301.8	274.4	249.5	222.9	194.6	164.8	141.7	121.6
-72.5°	230.6	215.4	198.4	179.9	159.8	144.5	130.3	115.3	99.3	82.6	69.1
-75°	124.3	116.3	107.5	97.8	87.3	76.0	68.6	62.8	56.6	50.2	43.5
-77.5°	61.1	58.1	54.8	51.2	47.3	43.1	38.5	34.6	32.1	29.5	26.7
-80°	31.0	29.8	28.6	27.1	25.6	24.0	22.2	20.3	18.3	16.9	16.1
-82.5°	16.1	15.8	15.4	15.1	14.6	14.2	13.7	13.2	12.6	12.1	11.5
-85°	10.5	10.5	10.4	10.3	10.3	10.2	10.1	10.0	10.0	9.9	9.8
-87.5°	8.6	8.4	8.2	8.1	7.9	7.7	7.5	7.2	7.0	6.7	6.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1212118 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-5S-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°	6.1	5.8	5.5	5.2	4.9	4.5	4.2	3.8	3.5	3.1	2.7
85°	9.7	9.6	9.4	9.3	9.2	9.1	8.4	7.7	7.0	6.2	5.5
82.5°	10.9	10.6	10.4	10.2	10.1	9.9	9.7	9.5	9.3	9.1	8.2
80°	15.3	14.4	13.5	12.6	11.6	10.7	10.4	10.2	9.9	9.7	9.4
77.5°	23.9	20.9	17.8	16.3	15.1	13.9	12.6	11.4	10.5	10.2	9.9
75°	36.4	32.3	28.6	24.8	20.9	17.1	15.6	14.1	12.5	10.9	10.4
72.5°	60.9	52.3	43.5	34.9	30.3	25.6	20.8	16.8	14.9	13.1	11.2
70°	100.7	79.0	65.3	54.8	44.1	34.3	28.8	23.2	17.5	15.2	13.1
67.5°	154.1	129.7	104.4	78.3	63.0	50.7	38.0	30.4	24.0	17.5	14.9
65°	240.0	195.6	151.7	122.7	93.0	67.9	53.9	39.7	30.4	23.2	16.8
62.5°	343.5	276.3	225.9	173.9	133.8	100.3	69.6	53.9	38.0	28.8	20.8
60°	469.7	389.5	306.7	244.1	186.0	137.5	100.3	67.9	50.7	34.3	25.6
57.5°	643.6	514.9	417.3	325.2	250.2	186.0	133.8	93.0	63.0	44.1	30.3
55°	832.9	685.4	542.5	426.6	325.2	244.1	173.9	122.7	78.3	54.8	34.9
52.5°	1053.4	868.0	699.3	542.5	417.3	306.7	225.9	151.7	104.4	65.3	43.5
50°	1280.1	1071.2	868.0	685.4	514.9	389.5	276.3	195.6	129.7	79.0	52.3
47.5°	1511.7	1280.1	1053.4	832.9	643.6	469.7	343.5	240.0	154.1	100.7	60.9
45°	1750.7	1491.7	1240.7	1000.4	768.1	574.5	414.4	282.9	192.3	121.6	69.1
42.5°	1986.8	1707.0	1432.0	1162.4	912.7	685.0	482.7	341.7	229.2	141.7	82.6
40°	2240.2	1920.5	1620.2	1333.4	1056.4	791.6	575.7	401.0	264.6	164.8	99.3
37.5°	2486.7	2140.0	1811.2	1497.3	1197.3	917.7	668.0	457.4	302.9	194.6	115.3
35°	2627.7	2360.1	1993.5	1660.3	1341.2	1037.6	755.7	520.8	350.9	222.9	130.3
32.5°	2754.7	2541.1	2185.8	1820.3	1477.4	1150.9	850.7	595.5	396.1	249.5	144.5
30°	2870.5	2652.8	2369.0	1970.9	1608.5	1267.2	947.5	665.6	438.5	274.4	159.8
27.5°	2978.0	2757.6	2524.8	2124.3	1737.7	1376.4	1037.6	730.8	477.8	301.8	179.9
25°	3111.6	2851.6	2614.7	2270.8	1857.4	1477.4	1120.9	791.6	525.5	333.9	198.4
22.5°	3317.3	2936.9	2697.4	2405.3	1967.0	1570.0	1200.7	860.1	574.5	363.1	215.4
20°	3504.5	3014.5	2772.3	2517.2	2073.3	1660.3	1276.4	921.9	618.8	389.5	230.6
17.5°	3720.1	3124.5	2836.7	2578.7	2172.7	1740.8	1343.8	976.9	658.1	412.9	244.1
15°	4125.6	3260.2	2892.7	2632.5	2259.6	1811.2	1402.6	1025.0	692.4	433.3	255.9
12.5°	4473.0	3376.4	2940.5	2678.4	2333.8	1871.2	1452.7	1065.8	721.6	450.7	265.9
10°	4760.3	3472.4	2980.0	2716.3	2394.8	1920.5	1494.0	1099.4	745.6	465.0	274.2
7.5°	4985.7	3547.6	3010.9	2746.0	2442.6	1959.1	1526.2	1125.7	764.3	476.1	280.6
5°	5147.7	3601.7	3033.1	2767.2	2476.9	1986.8	1549.3	1144.5	777.7	484.1	285.2
2.5°	5245.4	3634.2	3046.4	2780.0	2497.5	2003.4	1563.2	1155.8	785.8	488.9	288.0
0°	5278.0	3645.1	3050.9	2784.3	2504.4	2009.0	1567.8	1159.6	788.5	490.5	288.9
-2.5°	5245.4	3634.2	3046.4	2780.0	2497.5	2003.4	1563.2	1155.8	785.8	488.9	288.0
-5°	5147.7	3601.7	3033.1	2767.2	2476.9	1986.8	1549.3	1144.5	777.7	484.1	285.2
-7.5°	4985.7	3547.6	3010.9	2746.0	2442.6	1959.1	1526.2	1125.7	764.3	476.1	280.6
-10°	4760.3	3472.4	2980.0	2716.3	2394.8	1920.5	1494.0	1099.4	745.6	465.0	274.2
-12.5°	4473.0	3376.4	2940.5	2678.4	2333.8	1871.2	1452.7	1065.8	721.6	450.7	265.9
-15°	4125.6	3260.2	2892.7	2632.5	2259.6	1811.2	1402.6	1025.0	692.4	433.3	255.9
-17.5°	3720.1	3124.5	2836.7	2578.7	2172.7	1740.8	1343.8	976.9	658.1	412.9	244.1
-20°	3504.5	3014.5	2772.3	2517.2	2073.3	1660.3	1276.4	921.9	618.8	389.5	230.6



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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°	3317.3	2936.9	2697.4	2405.3	1967.0	1570.0	1200.7	860.1	574.5	363.1	215.4
-25°	3111.6	2851.6	2614.7	2270.8	1857.4	1477.4	1120.9	791.6	525.5	333.9	198.4
-27.5°	2978.0	2757.6	2524.8	2124.3	1737.7	1376.4	1037.6	730.8	477.8	301.8	179.9
-30°	2870.5	2652.8	2369.0	1970.9	1608.5	1267.2	947.5	665.6	438.5	274.4	159.8
-32.5°	2754.7	2541.1	2185.8	1820.3	1477.4	1150.9	850.7	595.5	396.1	249.5	144.5
-35°	2627.7	2360.1	1993.5	1660.3	1341.2	1037.6	755.7	520.8	350.9	222.9	130.3
-37.5°	2486.7	2140.0	1811.2	1497.3	1197.3	917.7	668.0	457.4	302.9	194.6	115.3
-40°	2240.2	1920.5	1620.2	1333.4	1056.4	791.6	575.7	401.0	264.6	164.8	99.3
-42.5°	1986.8	1707.0	1432.0	1162.4	912.7	685.0	482.7	341.7	229.2	141.7	82.6
-45°	1750.7	1491.7	1240.7	1000.4	768.1	574.5	414.4	282.9	192.3	121.6	69.1
-47.5°	1511.7	1280.1	1053.4	832.9	643.6	469.7	343.5	240.0	154.1	100.7	60.9
-50°	1280.1	1071.2	868.0	685.4	514.9	389.5	276.3	195.6	129.7	79.0	52.3
-52.5°	1053.4	868.0	699.3	542.5	417.3	306.7	225.9	151.7	104.4	65.3	43.5
-55°	832.9	685.4	542.5	426.6	325.2	244.1	173.9	122.7	78.3	54.8	34.9
-57.5°	643.6	514.9	417.3	325.2	250.2	186.0	133.8	93.0	63.0	44.1	30.3
-60°	469.7	389.5	306.7	244.1	186.0	137.5	100.3	67.9	50.7	34.3	25.6
-62.5°	343.5	276.3	225.9	173.9	133.8	100.3	69.6	53.9	38.0	28.8	20.8
-65°	240.0	195.6	151.7	122.7	93.0	67.9	53.9	39.7	30.4	23.2	16.8
-67.5°	154.1	129.7	104.4	78.3	63.0	50.7	38.0	30.4	24.0	17.5	14.9
-70°	100.7	79.0	65.3	54.8	44.1	34.3	28.8	23.2	17.5	15.2	13.1
-72.5°	60.9	52.3	43.5	34.9	30.3	25.6	20.8	16.8	14.9	13.1	11.2
-75°	36.4	32.3	28.6	24.8	20.9	17.1	15.6	14.1	12.5	10.9	10.4
-77.5°	23.9	20.9	17.8	16.3	15.1	13.9	12.6	11.4	10.5	10.2	9.9
-80°	15.3	14.4	13.5	12.6	11.6	10.7	10.4	10.2	9.9	9.7	9.4
-82.5°	10.9	10.6	10.4	10.2	10.1	9.9	9.7	9.5	9.3	9.1	8.2
-85°	9.7	9.6	9.4	9.3	9.2	9.1	8.4	7.7	7.0	6.2	5.5
-87.5°	6.1	5.8	5.5	5.2	4.9	4.5	4.2	3.8	3.5	3.1	2.7
-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°	2.4	2.0	1.6	1.2	0.8	0.4	0.0
85°	4.7	3.9	3.2	2.4	1.6	0.8	0.0
82.5°	7.0	5.9	4.7	3.6	2.4	1.2	0.0
80°	9.1	7.8	6.3	4.7	3.2	1.6	0.0
77.5°	9.6	9.2	7.8	5.9	3.9	2.0	0.0
75°	10.0	9.6	9.1	7.0	4.7	2.4	0.0
72.5°	10.4	9.9	9.4	8.2	5.5	2.7	0.0
70°	10.9	10.2	9.7	9.1	6.2	3.1	0.0
67.5°	12.5	10.5	9.9	9.3	7.0	3.5	0.0
65°	14.1	11.4	10.2	9.5	7.7	3.8	0.0
62.5°	15.6	12.6	10.4	9.7	8.4	4.2	0.0
60°	17.1	13.9	10.7	9.9	9.1	4.5	0.0
57.5°	20.9	15.1	11.6	10.1	9.2	4.9	0.0
55°	24.8	16.3	12.6	10.2	9.3	5.2	0.0
52.5°	28.6	17.8	13.5	10.4	9.4	5.5	0.0
50°	32.3	20.9	14.4	10.6	9.6	5.8	0.0
47.5°	36.4	23.9	15.3	10.9	9.7	6.1	0.0
45°	43.5	26.7	16.1	11.5	9.8	6.4	0.0
42.5°	50.2	29.5	16.9	12.1	9.9	6.7	0.0
40°	56.6	32.1	18.3	12.6	10.0	7.0	0.0
37.5°	62.8	34.6	20.3	13.2	10.0	7.2	0.0
35°	68.6	38.5	22.2	13.7	10.1	7.5	0.0
32.5°	76.0	43.1	24.0	14.2	10.2	7.7	0.0
30°	87.3	47.3	25.6	14.6	10.3	7.9	0.0
27.5°	97.8	51.2	27.1	15.1	10.3	8.1	0.0
25°	107.5	54.8	28.6	15.4	10.4	8.2	0.0
22.5°	116.3	58.1	29.8	15.8	10.5	8.4	0.0
20°	124.3	61.1	31.0	16.1	10.5	8.6	0.0
17.5°	131.3	63.7	32.0	16.4	10.6	8.7	0.0
15°	137.5	66.0	32.9	16.6	10.6	8.8	0.0
12.5°	142.7	67.9	33.7	16.8	10.6	8.9	0.0
10°	147.0	69.5	34.3	17.0	10.7	9.0	0.0
7.5°	150.4	70.8	34.8	17.1	10.7	9.0	0.0
5°	152.8	71.7	35.1	17.2	10.7	9.1	0.0
2.5°	154.2	72.2	35.3	17.3	10.7	9.1	0.0
0°	154.7	72.4	35.4	17.3	10.7	9.1	0.0
-2.5°	154.2	72.2	35.3	17.3	10.7	9.1	0.0
-5°	152.8	71.7	35.1	17.2	10.7	9.1	0.0
-7.5°	150.4	70.8	34.8	17.1	10.7	9.0	0.0
-10°	147.0	69.5	34.3	17.0	10.7	9.0	0.0
-12.5°	142.7	67.9	33.7	16.8	10.6	8.9	0.0
-15°	137.5	66.0	32.9	16.6	10.6	8.8	0.0
-17.5°	131.3	63.7	32.0	16.4	10.6	8.7	0.0
-20°	124.3	61.1	31.0	16.1	10.5	8.6	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	116.3	58.1	29.8	15.8	10.5	8.4	0.0
-25°	107.5	54.8	28.6	15.4	10.4	8.2	0.0
-27.5°	97.8	51.2	27.1	15.1	10.3	8.1	0.0
-30°	87.3	47.3	25.6	14.6	10.3	7.9	0.0
-32.5°	76.0	43.1	24.0	14.2	10.2	7.7	0.0
-35°	68.6	38.5	22.2	13.7	10.1	7.5	0.0
-37.5°	62.8	34.6	20.3	13.2	10.0	7.2	0.0
-40°	56.6	32.1	18.3	12.6	10.0	7.0	0.0
-42.5°	50.2	29.5	16.9	12.1	9.9	6.7	0.0
-45°	43.5	26.7	16.1	11.5	9.8	6.4	0.0
-47.5°	36.4	23.9	15.3	10.9	9.7	6.1	0.0
-50°	32.3	20.9	14.4	10.6	9.6	5.8	0.0
-52.5°	28.6	17.8	13.5	10.4	9.4	5.5	0.0
-55°	24.8	16.3	12.6	10.2	9.3	5.2	0.0
-57.5°	20.9	15.1	11.6	10.1	9.2	4.9	0.0
-60°	17.1	13.9	10.7	9.9	9.1	4.5	0.0
-62.5°	15.6	12.6	10.4	9.7	8.4	4.2	0.0
-65°	14.1	11.4	10.2	9.5	7.7	3.8	0.0
-67.5°	12.5	10.5	9.9	9.3	7.0	3.5	0.0
-70°	10.9	10.2	9.7	9.1	6.2	3.1	0.0
-72.5°	10.4	9.9	9.4	8.2	5.5	2.7	0.0
-75°	10.0	9.6	9.1	7.0	4.7	2.4	0.0
-77.5°	9.6	9.2	7.8	5.9	3.9	2.0	0.0
-80°	9.1	7.8	6.3	4.7	3.2	1.6	0.0
-82.5°	7.0	5.9	4.7	3.6	2.4	1.2	0.0
-85°	4.7	3.9	3.2	2.4	1.6	0.8	0.0
-87.5°	2.4	2.0	1.6	1.2	0.8	0.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)