

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: P1212223 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-57-90-4S-HEG**

Issue Date: 11/14/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1212223 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/14/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: EPHESUS  
Catalog Number: EPH-LS12-1000R-57-90-4S-HEG  
Description: EPHESUS LS12 LUMINAIRE  
(12) 5700K, 90 CRI LEDS AND 4S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

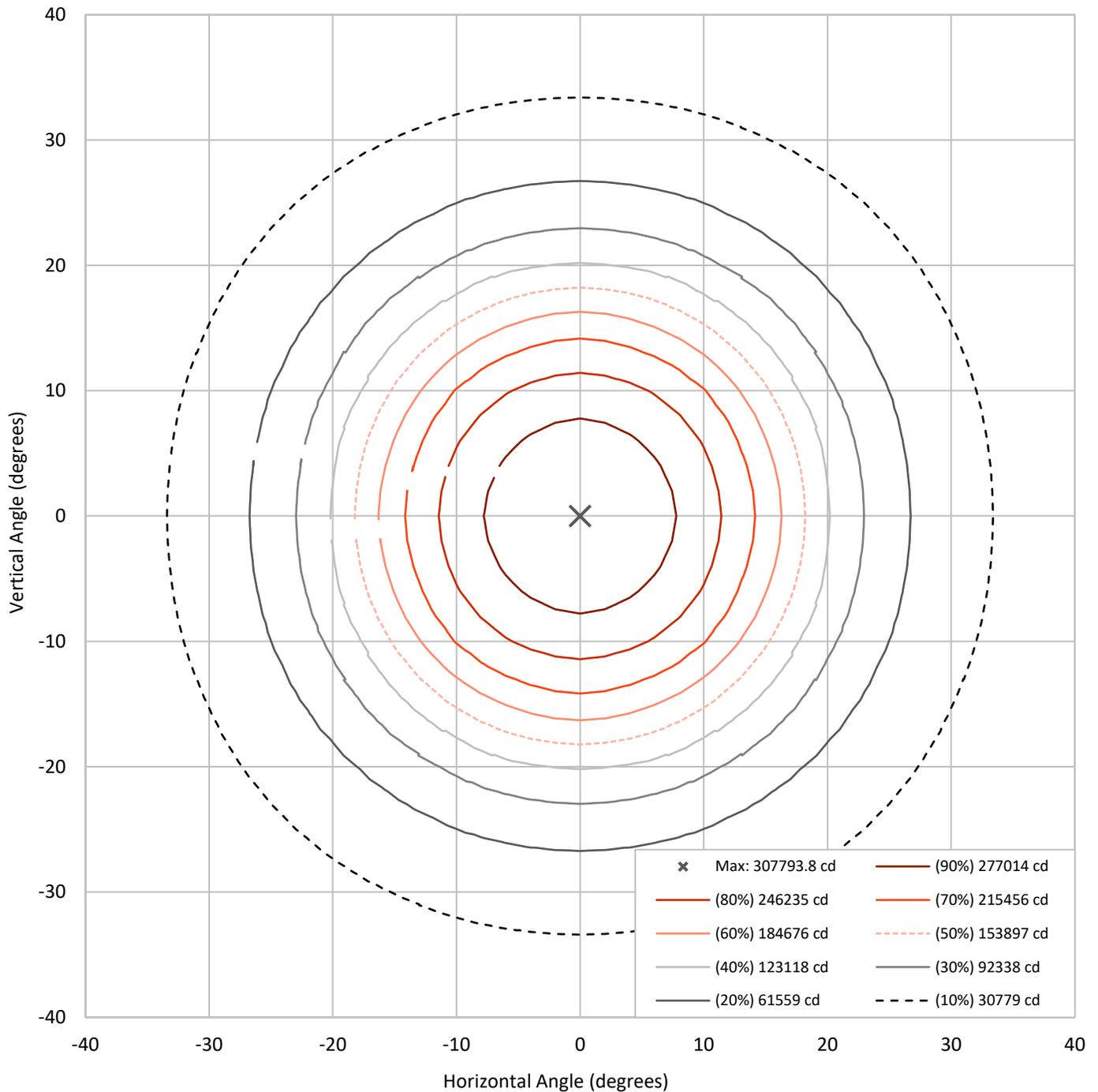
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	140516.9 lumens	Max Intensity:	307793.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	135.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	36.4°H x 36.4°V	Field Angle (10%):	66.7°H x 66.7°V
Beam Lumens:	71283.2 lumens	Field Lumens:	123048.2 lumens
Beam Efficiency:	50.7%	Field Efficiency:	87.6%

Input Watts (W): 1041  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Candela Plot





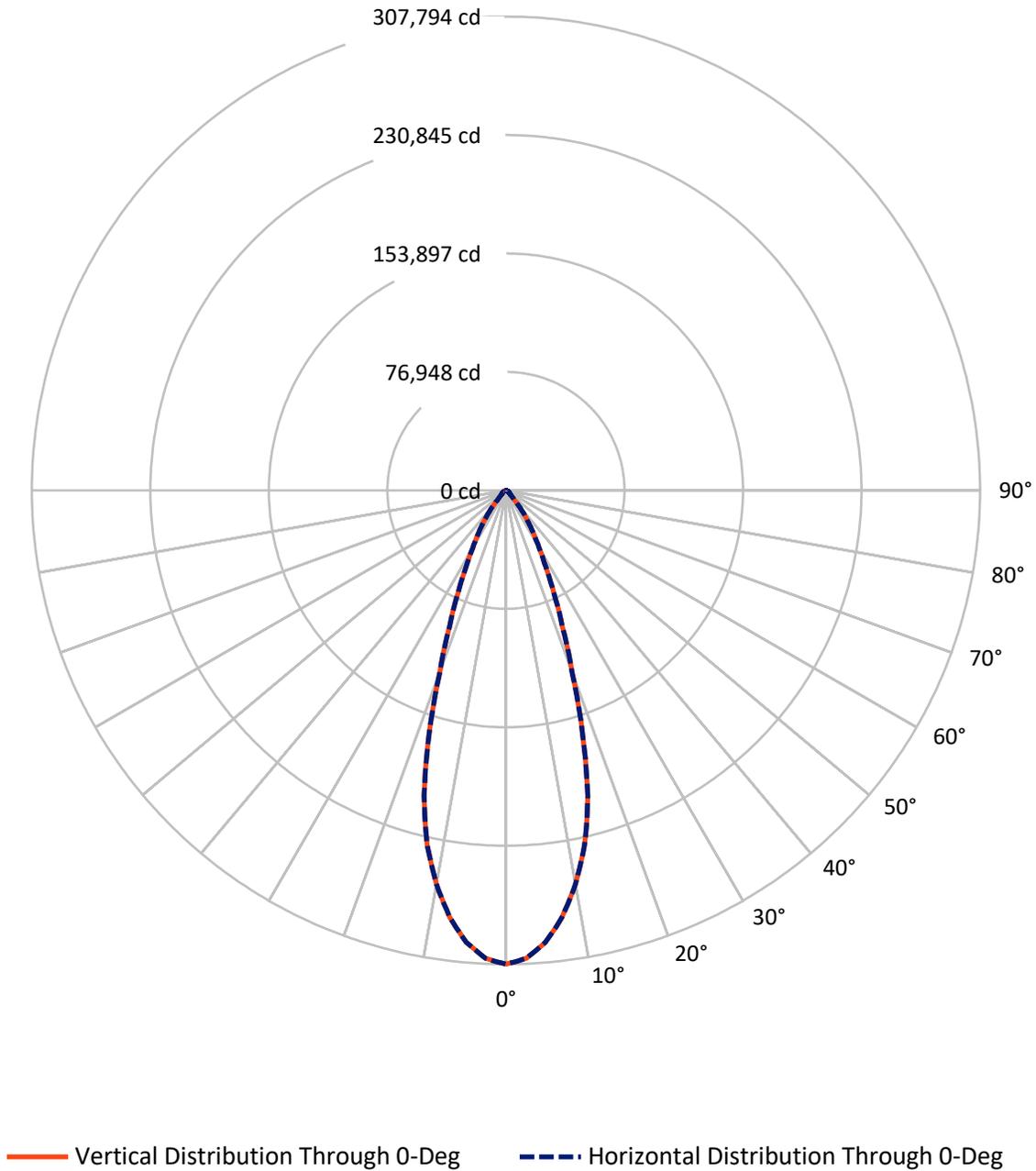
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### Lumen Table

90	0.1	0.6		3.7		10.2		13.6		10.2		3.7		0.6		0.1			
80	0.1	0.6		3.7		10.2		13.6		10.2		3.7		0.6		0.1			
70	0.3	0.5	2.6	7.8	16.3	26.2	34.6	39.2	39.2	34.6	26.2	16.3	7.8	2.6	0.5	0.3			
60		2.0	9.3	24.7	43.7	59.9	72.4	79.5	79.5	72.4	59.9	43.7	24.7	9.3	2.0				
50	1.3	4.8	20.2	43.4	67.1	94.9	132.3	169.1	169.1	132.3	94.9	67.1	43.4	20.2	4.8	1.3			
40		8.7	30.8	58.1	101.5	253.0	541.8	759.9	759.9	541.8	253.0	101.5	58.1	30.8	8.7				
30	3.1	12.7	38.2	74.4	230.3	739.5	1480.0	2194.7	2194.7	1480.0	739.5	230.3	74.4	38.2	12.7	3.1			
20		15.7	43.4	97.9	464.3	1393.7	3389.1	5615.6	5615.6	3389.1	1393.7	464.3	97.9	43.4	15.7				
10	3.9	17.2	46.2	122.1	631.7	2009.1	5457.8	8323.3	8323.3	5457.8	2009.1	631.7	122.1	46.2	17.2	3.9			
0		17.2	46.2	122.1	631.7	2009.1	5457.8	8323.3	8323.3	5457.8	2009.1	631.7	122.1	46.2	17.2				
-10	3.1	15.7	43.4	97.9	464.3	1393.7	3389.1	5615.6	5615.6	3389.1	1393.7	464.3	97.9	43.4	15.7	3.1			
-20		12.7	38.2	74.4	230.3	739.5	1480.0	2194.7	2194.7	1480.0	739.5	230.3	74.4	38.2	12.7				
-30	1.3	8.7	30.8	58.1	101.5	253.0	541.8	759.9	759.9	541.8	253.0	101.5	58.1	30.8	8.7	1.3			
-40		4.8	20.2	43.4	67.1	94.9	132.3	169.1	169.1	132.3	94.9	67.1	43.4	20.2	4.8				
-50	0.3	2.0	9.3	24.7	43.7	59.9	72.4	79.5	79.5	72.4	59.9	43.7	24.7	9.3	2.0	0.3			
-60		0.5	2.6	7.8	16.3	26.2	34.6	39.2	39.2	34.6	26.2	16.3	7.8	2.6	0.5				
-70	0.1	0.6		3.7		10.2		13.6		10.2		3.7		0.6		0.1			
-80		0.6		3.7		10.2		13.6		10.2		3.7		0.6					
-90	0.1	0.6		3.7		10.2		13.6		10.2		3.7		0.6		0.1			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

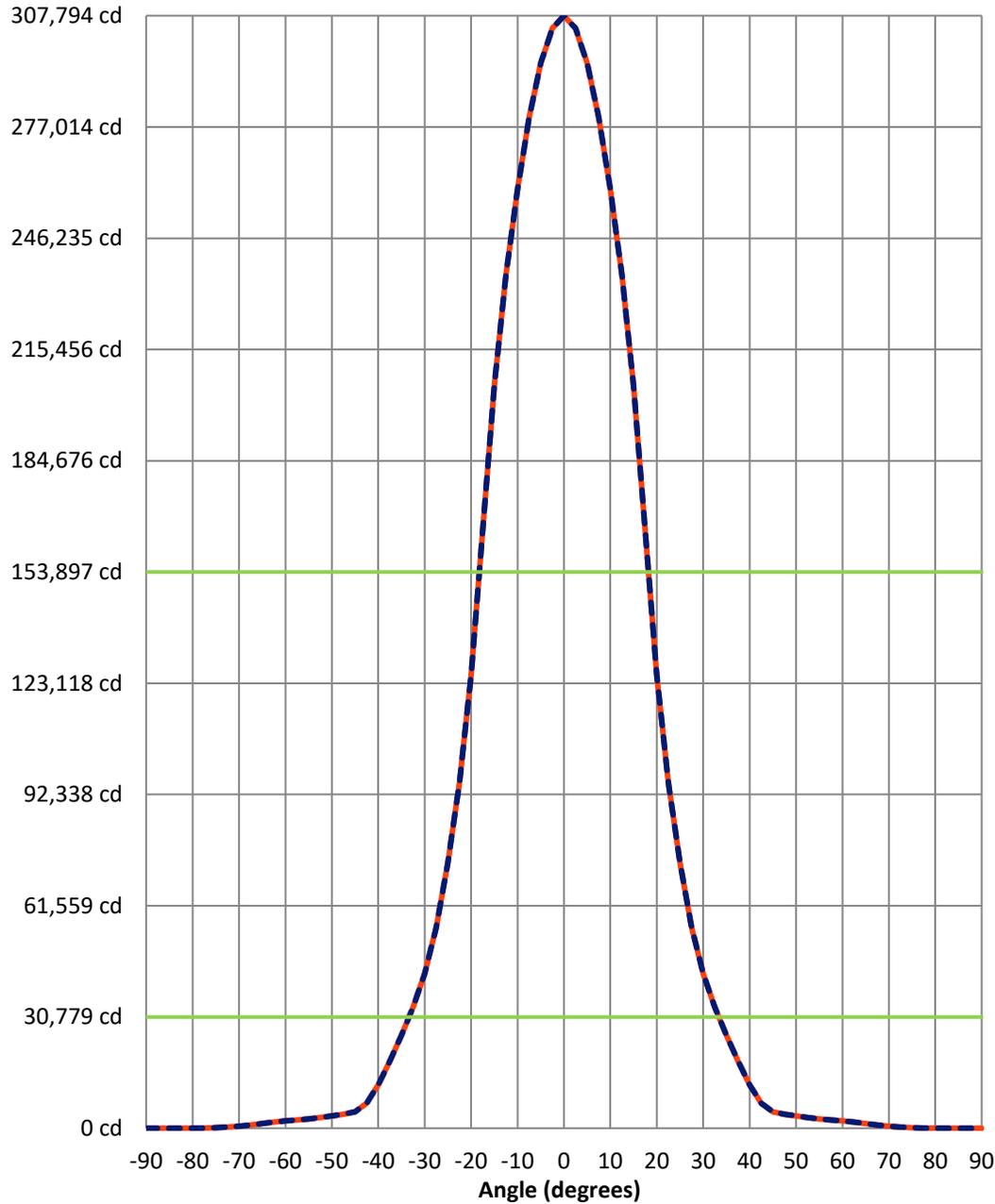
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 36.4°  
 V Angle: 36.4°  
 Lumens: 71283.2  
 Efficiency: 50.7%

**Field:**  
 H Angle: 66.7°  
 V Angle: 66.7°  
 Lumens: 123048.2  
 Efficiency: 87.6%

**Spill:**  
 Lumens: 17468.7  
 Efficiency: 12.4%

— 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	0.2	0.4	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1
85°	0.0	0.4	0.9	1.3	1.7	2.2	2.6	3.0	3.4	3.8	4.2
82.5°	0.0	0.7	1.3	2.0	2.6	3.2	3.9	4.5	5.0	5.1	5.2
80°	0.0	0.9	1.7	2.6	3.5	4.3	5.0	5.2	5.3	5.4	5.5
77.5°	0.0	1.1	2.2	3.2	4.3	5.1	5.2	5.4	5.6	5.7	6.2
75°	0.0	1.3	2.6	3.9	5.0	5.2	5.4	5.6	5.9	6.9	7.9
72.5°	0.0	1.5	3.0	4.5	5.2	5.4	5.6	6.1	7.3	8.5	9.7
70°	0.0	1.7	3.4	5.0	5.3	5.6	5.9	7.3	8.7	10.2	15.9
67.5°	0.0	1.9	3.8	5.1	5.4	5.7	6.9	8.5	10.2	16.7	23.2
65°	0.0	2.1	4.2	5.2	5.5	6.2	7.9	9.7	15.9	23.2	33.0
62.5°	0.0	2.3	4.6	5.3	5.7	7.0	8.9	13.5	21.6	31.2	48.8
60°	0.0	2.5	5.0	5.4	5.8	7.8	9.9	18.4	27.2	45.2	64.3
57.5°	0.0	2.7	5.1	5.5	6.4	8.6	13.6	23.2	37.9	58.8	94.6
55°	0.0	2.9	5.1	5.6	7.0	9.4	17.6	27.8	49.8	76.5	131.4
52.5°	0.0	3.0	5.2	5.7	7.6	10.5	21.5	37.3	61.3	108.7	167.2
50°	0.0	3.2	5.2	5.7	8.2	13.6	25.2	47.0	77.3	140.0	222.3
47.5°	0.0	3.4	5.3	5.9	8.7	16.6	29.4	56.5	104.2	170.2	278.0
45°	0.0	3.5	5.3	6.3	9.2	19.5	37.2	65.5	130.0	218.0	331.7
42.5°	0.0	3.7	5.4	6.7	9.8	22.3	44.7	81.8	154.9	264.4	399.2
40°	0.0	3.8	5.4	7.0	11.1	25.0	51.8	102.5	183.6	308.8	466.3
37.5°	0.0	4.0	5.5	7.4	13.1	27.5	58.6	122.2	221.0	355.2	530.3
35°	0.0	4.1	5.5	7.7	15.0	31.8	65.0	140.8	256.5	409.6	602.2
32.5°	0.0	4.2	5.5	8.0	16.7	36.8	73.6	158.3	289.8	460.8	686.8
30°	0.0	4.3	5.6	8.3	18.4	41.4	87.6	177.3	321.1	508.8	766.2
27.5°	0.0	4.4	5.6	8.6	20.0	45.8	100.6	202.5	354.0	553.5	840.1
25°	0.0	4.5	5.6	8.8	21.4	49.8	112.6	225.8	390.3	607.4	908.9
22.5°	0.0	4.6	5.7	9.0	22.7	53.4	123.5	247.0	423.4	663.0	983.5
20°	0.0	4.7	5.7	9.2	23.8	56.7	133.3	266.1	453.3	713.1	1050.9
17.5°	0.0	4.8	5.7	9.4	24.9	59.6	142.0	283.1	479.8	757.7	1110.9
15°	0.0	4.8	5.7	9.6	25.8	62.1	149.6	297.9	503.0	796.6	1163.2
12.5°	0.0	4.9	5.8	9.7	26.5	64.3	156.1	310.5	522.7	829.7	1207.7
10°	0.0	4.9	5.8	9.8	27.2	66.0	161.4	320.8	538.9	856.9	1244.3
7.5°	0.0	5.0	5.8	9.9	27.7	67.4	165.6	328.9	551.5	878.1	1273.0
5°	0.0	5.0	5.8	10.0	28.0	68.4	168.5	334.7	560.5	893.3	1293.5
2.5°	0.0	5.0	5.8	10.0	28.2	69.0	170.3	338.1	566.0	902.4	1305.8
0°	0.0	5.0	5.8	10.0	28.3	69.2	170.9	339.3	567.8	905.5	1309.9
-2.5°	0.0	5.0	5.8	10.0	28.2	69.0	170.3	338.1	566.0	902.4	1305.8
-5°	0.0	5.0	5.8	10.0	28.0	68.4	168.5	334.7	560.5	893.3	1293.5
-7.5°	0.0	5.0	5.8	9.9	27.7	67.4	165.6	328.9	551.5	878.1	1273.0
-10°	0.0	4.9	5.8	9.8	27.2	66.0	161.4	320.8	538.9	856.9	1244.3
-12.5°	0.0	4.9	5.8	9.7	26.5	64.3	156.1	310.5	522.7	829.7	1207.7
-15°	0.0	4.8	5.7	9.6	25.8	62.1	149.6	297.9	503.0	796.6	1163.2
-17.5°	0.0	4.8	5.7	9.4	24.9	59.6	142.0	283.1	479.8	757.7	1110.9
-20°	0.0	4.7	5.7	9.2	23.8	56.7	133.3	266.1	453.3	713.1	1050.9



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 CATALOG NUMBER: EPH-LS12-1000R-57-90-4S-HEG

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	4.6	5.7	9.0	22.7	53.4	123.5	247.0	423.4	663.0	983.5
-25°	0.0	4.5	5.6	8.8	21.4	49.8	112.6	225.8	390.3	607.4	908.9
-27.5°	0.0	4.4	5.6	8.6	20.0	45.8	100.6	202.5	354.0	553.5	840.1
-30°	0.0	4.3	5.6	8.3	18.4	41.4	87.6	177.3	321.1	508.8	766.2
-32.5°	0.0	4.2	5.5	8.0	16.7	36.8	73.6	158.3	289.8	460.8	686.8
-35°	0.0	4.1	5.5	7.7	15.0	31.8	65.0	140.8	256.5	409.6	602.2
-37.5°	0.0	4.0	5.5	7.4	13.1	27.5	58.6	122.2	221.0	355.2	530.3
-40°	0.0	3.8	5.4	7.0	11.1	25.0	51.8	102.5	183.6	308.8	466.3
-42.5°	0.0	3.7	5.4	6.7	9.8	22.3	44.7	81.8	154.9	264.4	399.2
-45°	0.0	3.5	5.3	6.3	9.2	19.5	37.2	65.5	130.0	218.0	331.7
-47.5°	0.0	3.4	5.3	5.9	8.7	16.6	29.4	56.5	104.2	170.2	278.0
-50°	0.0	3.2	5.2	5.7	8.2	13.6	25.2	47.0	77.3	140.0	222.3
-52.5°	0.0	3.0	5.2	5.7	7.6	10.5	21.5	37.3	61.3	108.7	167.2
-55°	0.0	2.9	5.1	5.6	7.0	9.4	17.6	27.8	49.8	76.5	131.4
-57.5°	0.0	2.7	5.1	5.5	6.4	8.6	13.6	23.2	37.9	58.8	94.6
-60°	0.0	2.5	5.0	5.4	5.8	7.8	9.9	18.4	27.2	45.2	64.3
-62.5°	0.0	2.3	4.6	5.3	5.7	7.0	8.9	13.5	21.6	31.2	48.8
-65°	0.0	2.1	4.2	5.2	5.5	6.2	7.9	9.7	15.9	23.2	33.0
-67.5°	0.0	1.9	3.8	5.1	5.4	5.7	6.9	8.5	10.2	16.7	23.2
-70°	0.0	1.7	3.4	5.0	5.3	5.6	5.9	7.3	8.7	10.2	15.9
-72.5°	0.0	1.5	3.0	4.5	5.2	5.4	5.6	6.1	7.3	8.5	9.7
-75°	0.0	1.3	2.6	3.9	5.0	5.2	5.4	5.6	5.9	6.9	7.9
-77.5°	0.0	1.1	2.2	3.2	4.3	5.1	5.2	5.4	5.6	5.7	6.2
-80°	0.0	0.9	1.7	2.6	3.5	4.3	5.0	5.2	5.3	5.4	5.5
-82.5°	0.0	0.7	1.3	2.0	2.6	3.2	3.9	4.5	5.0	5.1	5.2
-85°	0.0	0.4	0.9	1.3	1.7	2.2	2.6	3.0	3.4	3.8	4.2
-87.5°	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	-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°	2.3	2.5	2.7	2.9	3.0	3.2	3.4	3.5	3.7	3.8	4.0
85°	4.6	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4	5.4	5.5
82.5°	5.3	5.4	5.5	5.6	5.7	5.7	5.9	6.3	6.7	7.0	7.4
80°	5.7	5.8	6.4	7.0	7.6	8.2	8.7	9.2	9.8	11.1	13.1
77.5°	7.0	7.8	8.6	9.4	10.5	13.6	16.6	19.5	22.3	25.0	27.5
75°	8.9	9.9	13.6	17.6	21.5	25.2	29.4	37.2	44.7	51.8	58.6
72.5°	13.5	18.4	23.2	27.8	37.3	47.0	56.5	65.5	81.8	102.5	122.2
70°	21.6	27.2	37.9	49.8	61.3	77.3	104.2	130.0	154.9	183.6	221.0
67.5°	31.2	45.2	58.8	76.5	108.7	140.0	170.2	218.0	264.4	308.8	355.2
65°	48.8	64.3	94.6	131.4	167.2	222.3	278.0	331.7	399.2	466.3	530.3
62.5°	66.1	103.7	145.1	195.0	260.2	323.5	401.2	481.6	559.0	664.4	769.0
60°	103.7	149.6	210.2	283.1	359.5	453.3	544.3	663.0	788.2	908.9	1046.3
57.5°	145.1	210.2	290.8	380.4	484.8	595.4	741.3	882.4	1040.9	1197.5	1348.3
55°	195.0	283.1	380.4	495.4	626.8	788.6	953.9	1136.4	1312.7	1487.1	1654.0
52.5°	260.2	359.5	484.8	626.8	804.5	992.2	1194.2	1392.6	1587.5	1764.7	1906.2
50°	323.5	453.3	595.4	788.6	992.2	1213.6	1432.7	1648.4	1829.0	1987.3	2117.6
47.5°	401.2	544.3	741.3	953.9	1194.2	1432.7	1668.7	1861.4	2036.4	2167.2	2289.1
45°	481.6	663.0	882.4	1136.4	1392.6	1648.4	1861.4	2052.8	2192.2	2332.6	2486.9
42.5°	559.0	788.2	1040.9	1312.7	1587.5	1829.0	2036.4	2192.2	2347.7	2517.6	2712.0
40°	664.4	908.9	1197.5	1487.1	1764.7	1987.3	2167.2	2332.6	2517.6	2732.8	2963.6
37.5°	769.0	1046.3	1348.3	1654.0	1906.2	2117.6	2289.1	2486.9	2712.0	2963.6	3250.2
35°	868.3	1177.0	1495.0	1794.5	2041.3	2226.5	2426.1	2650.1	2921.3	3224.6	3529.3
32.5°	973.3	1300.5	1633.8	1913.0	2140.3	2336.1	2558.1	2837.5	3148.3	3476.9	3797.7
30°	1078.8	1419.5	1756.1	2024.6	2230.9	2452.2	2713.7	3022.6	3373.3	3717.6	4134.0
27.5°	1177.0	1530.8	1851.8	2109.8	2319.1	2561.1	2869.4	3220.7	3586.0	3972.3	4495.2
25°	1267.7	1633.8	1940.5	2182.3	2412.6	2686.3	3021.6	3405.4	3784.9	4289.4	5497.8
22.5°	1351.8	1727.5	2021.7	2248.9	2498.5	2809.9	3179.7	3576.4	4007.7	4618.3	6604.6
20°	1428.9	1794.5	2084.6	2311.2	2576.5	2922.2	3323.7	3732.3	4257.9	5562.6	8381.3
17.5°	1497.6	1854.1	2133.8	2375.1	2664.8	3031.5	3452.8	3872.4	4483.0	6414.5	10345.2
15°	1557.6	1906.2	2176.8	2431.1	2745.8	3135.9	3566.5	4047.3	4961.1	7412.7	12101.1
12.5°	1608.6	1950.7	2213.5	2478.8	2815.1	3225.2	3663.9	4204.6	5559.0	8797.9	14046.4
10°	1650.7	1987.3	2243.7	2518.2	2872.2	3299.0	3744.5	4334.8	6054.9	9948.9	15666.3
7.5°	1683.5	2015.8	2267.3	2549.0	2917.0	3356.9	3807.6	4437.1	6444.9	10855.5	16944.8
5°	1707.0	2036.4	2284.3	2571.1	2949.1	3398.4	3853.1	4510.7	6725.9	11509.4	17868.2
2.5°	1721.2	2048.7	2294.5	2584.5	2968.4	3423.4	3880.5	4555.1	6895.4	11904.3	18426.5
0°	1725.9	2052.8	2297.9	2588.9	2974.9	3431.8	3889.6	4569.9	6952.1	12036.4	18613.3
-2.5°	1721.2	2048.7	2294.5	2584.5	2968.4	3423.4	3880.5	4555.1	6895.4	11904.3	18426.5
-5°	1707.0	2036.4	2284.3	2571.1	2949.1	3398.4	3853.1	4510.7	6725.9	11509.4	17868.2
-7.5°	1683.5	2015.8	2267.3	2549.0	2917.0	3356.9	3807.6	4437.1	6444.9	10855.5	16944.8
-10°	1650.7	1987.3	2243.7	2518.2	2872.2	3299.0	3744.5	4334.8	6054.9	9948.9	15666.3
-12.5°	1608.6	1950.7	2213.5	2478.8	2815.1	3225.2	3663.9	4204.6	5559.0	8797.9	14046.4
-15°	1557.6	1906.2	2176.8	2431.1	2745.8	3135.9	3566.5	4047.3	4961.1	7412.7	12101.1
-17.5°	1497.6	1854.1	2133.8	2375.1	2664.8	3031.5	3452.8	3872.4	4483.0	6414.5	10345.2
-20°	1428.9	1794.5	2084.6	2311.2	2576.5	2922.2	3323.7	3732.3	4257.9	5562.6	8381.3



REPORT NUMBER: P1212223 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-4S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1351.8	1727.5	2021.7	2248.9	2498.5	2809.9	3179.7	3576.4	4007.7	4618.3	6604.6
-25°	1267.7	1633.8	1940.5	2182.3	2412.6	2686.3	3021.6	3405.4	3784.9	4289.4	5497.8
-27.5°	1177.0	1530.8	1851.8	2109.8	2319.1	2561.1	2869.4	3220.7	3586.0	3972.3	4495.2
-30°	1078.8	1419.5	1756.1	2024.6	2230.9	2452.2	2713.7	3022.6	3373.3	3717.6	4134.0
-32.5°	973.3	1300.5	1633.8	1913.0	2140.3	2336.1	2558.1	2837.5	3148.3	3476.9	3797.7
-35°	868.3	1177.0	1495.0	1794.5	2041.3	2226.5	2426.1	2650.1	2921.3	3224.6	3529.3
-37.5°	769.0	1046.3	1348.3	1654.0	1906.2	2117.6	2289.1	2486.9	2712.0	2963.6	3250.2
-40°	664.4	908.9	1197.5	1487.1	1764.7	1987.3	2167.2	2332.6	2517.6	2732.8	2963.6
-42.5°	559.0	788.2	1040.9	1312.7	1587.5	1829.0	2036.4	2192.2	2347.7	2517.6	2712.0
-45°	481.6	663.0	882.4	1136.4	1392.6	1648.4	1861.4	2052.8	2192.2	2332.6	2486.9
-47.5°	401.2	544.3	741.3	953.9	1194.2	1432.7	1668.7	1861.4	2036.4	2167.2	2289.1
-50°	323.5	453.3	595.4	788.6	992.2	1213.6	1432.7	1648.4	1829.0	1987.3	2117.6
-52.5°	260.2	359.5	484.8	626.8	804.5	992.2	1194.2	1392.6	1587.5	1764.7	1906.2
-55°	195.0	283.1	380.4	495.4	626.8	788.6	953.9	1136.4	1312.7	1487.1	1654.0
-57.5°	145.1	210.2	290.8	380.4	484.8	595.4	741.3	882.4	1040.9	1197.5	1348.3
-60°	103.7	149.6	210.2	283.1	359.5	453.3	544.3	663.0	788.2	908.9	1046.3
-62.5°	66.1	103.7	145.1	195.0	260.2	323.5	401.2	481.6	559.0	664.4	769.0
-65°	48.8	64.3	94.6	131.4	167.2	222.3	278.0	331.7	399.2	466.3	530.3
-67.5°	31.2	45.2	58.8	76.5	108.7	140.0	170.2	218.0	264.4	308.8	355.2
-70°	21.6	27.2	37.9	49.8	61.3	77.3	104.2	130.0	154.9	183.6	221.0
-72.5°	13.5	18.4	23.2	27.8	37.3	47.0	56.5	65.5	81.8	102.5	122.2
-75°	8.9	9.9	13.6	17.6	21.5	25.2	29.4	37.2	44.7	51.8	58.6
-77.5°	7.0	7.8	8.6	9.4	10.5	13.6	16.6	19.5	22.3	25.0	27.5
-80°	5.7	5.8	6.4	7.0	7.6	8.2	8.7	9.2	9.8	11.1	13.1
-82.5°	5.3	5.4	5.5	5.6	5.7	5.7	5.9	6.3	6.7	7.0	7.4
-85°	4.6	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4	5.4	5.5
-87.5°	2.3	2.5	2.7	2.9	3.0	3.2	3.4	3.5	3.7	3.8	4.0
-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: P1212223 (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°	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.8	4.9	4.9
85°	5.5	5.5	5.6	5.6	5.6	5.7	5.7	5.7	5.7	5.8	5.8
82.5°	7.7	8.0	8.3	8.6	8.8	9.0	9.2	9.4	9.6	9.7	9.8
80°	15.0	16.7	18.4	20.0	21.4	22.7	23.8	24.9	25.8	26.5	27.2
77.5°	31.8	36.8	41.4	45.8	49.8	53.4	56.7	59.6	62.1	64.3	66.0
75°	65.0	73.6	87.6	100.6	112.6	123.5	133.3	142.0	149.6	156.1	161.4
72.5°	140.8	158.3	177.3	202.5	225.8	247.0	266.1	283.1	297.9	310.5	320.8
70°	256.5	289.8	321.1	354.0	390.3	423.4	453.3	479.8	503.0	522.7	538.9
67.5°	409.6	460.8	508.8	553.5	607.4	663.0	713.1	757.7	796.6	829.7	856.9
65°	602.2	686.8	766.2	840.1	908.9	983.5	1050.9	1110.9	1163.2	1207.7	1244.3
62.5°	868.3	973.3	1078.8	1177.0	1267.7	1351.8	1428.9	1497.6	1557.6	1608.6	1650.7
60°	1177.0	1300.5	1419.5	1530.8	1633.8	1727.5	1794.5	1854.1	1906.2	1950.7	1987.3
57.5°	1495.0	1633.8	1756.1	1851.8	1940.5	2021.7	2084.6	2133.8	2176.8	2213.5	2243.7
55°	1794.5	1913.0	2024.6	2109.8	2182.3	2248.9	2311.2	2375.1	2431.1	2478.8	2518.2
52.5°	2041.3	2140.3	2230.9	2319.1	2412.6	2498.5	2576.5	2664.8	2745.8	2815.1	2872.2
50°	2226.5	2336.1	2452.2	2561.1	2686.3	2809.9	2922.2	3031.5	3135.9	3225.2	3299.0
47.5°	2426.1	2558.1	2713.7	2869.4	3021.6	3179.7	3323.7	3452.8	3566.5	3663.9	3744.5
45°	2650.1	2837.5	3022.6	3220.7	3405.4	3576.4	3732.3	3872.4	4047.3	4204.6	4334.8
42.5°	2921.3	3148.3	3373.3	3586.0	3784.9	4007.7	4257.9	4483.0	4961.1	5559.0	6054.9
40°	3224.6	3476.9	3717.6	3972.3	4289.4	4618.3	5562.6	6414.5	7412.7	8797.9	9948.9
37.5°	3529.3	3797.7	4134.0	4495.2	5497.8	6604.6	8381.3	10345.2	12101.1	14046.4	15666.3
35°	3824.6	4215.8	4747.8	6096.3	7840.0	10374.3	12908.6	15651.5	18091.2	20338.7	22252.0
32.5°	4215.8	4895.3	6399.2	8835.0	11733.7	15158.2	18409.3	21603.6	24470.5	27066.8	29333.1
30°	4747.8	6399.2	9169.6	12536.7	16535.3	20439.0	24229.5	27864.9	31240.9	34326.7	37299.3
27.5°	6096.3	8835.0	12536.7	16999.0	21479.3	25850.4	30273.6	34510.4	38907.3	42764.1	47269.9
25°	7840.0	11733.7	16535.3	21479.3	26441.0	31501.2	36803.6	42074.4	48419.5	54258.9	60606.8
22.5°	10374.3	15158.2	20439.0	25850.4	31501.2	37579.0	44046.6	51931.2	60479.9	69361.2	77793.6
20°	12908.6	18409.3	24229.5	30273.6	36803.6	44046.6	53122.2	63957.4	75153.6	87253.6	98407.5
17.5°	15651.5	21603.6	27864.9	34510.4	42074.4	51931.2	63957.4	77466.4	92158.0	108841.4	124466.9
15°	18091.2	24470.5	31240.9	38907.3	48419.5	60479.9	75153.6	92158.0	112420.2	134476.0	158031.7
12.5°	20338.7	27066.8	34326.7	42764.1	54258.9	69361.2	87253.6	108841.4	134476.0	163753.0	190098.1
10°	22252.0	29333.1	37299.3	47269.9	60606.8	77793.6	98407.5	124466.9	158031.7	190098.1	217243.5
7.5°	23765.4	31130.7	39665.1	50876.3	66140.3	85421.0	109858.5	141532.4	177735.4	211405.9	236291.0
5°	24860.5	32434.4	41385.6	53508.1	70196.3	91044.1	118365.9	154586.8	192728.7	225289.9	249255.3
2.5°	25523.4	33224.8	42430.6	55110.7	72674.0	94493.8	123615.5	162708.3	202168.8	233431.9	257034.4
0°	25745.4	33489.6	42781.2	55648.9	73507.6	95657.0	125391.2	165467.7	205398.2	236045.0	259743.9
-2.5°	25523.4	33224.8	42430.6	55110.7	72674.0	94493.8	123615.5	162708.3	202168.8	233431.9	257034.4
-5°	24860.5	32434.4	41385.6	53508.1	70196.3	91044.1	118365.9	154586.8	192728.7	225289.9	249255.3
-7.5°	23765.4	31130.7	39665.1	50876.3	66140.3	85421.0	109858.5	141532.4	177735.4	211405.9	236291.0
-10°	22252.0	29333.1	37299.3	47269.9	60606.8	77793.6	98407.5	124466.9	158031.7	190098.1	217243.5
-12.5°	20338.7	27066.8	34326.7	42764.1	54258.9	69361.2	87253.6	108841.4	134476.0	163753.0	190098.1
-15°	18091.2	24470.5	31240.9	38907.3	48419.5	60479.9	75153.6	92158.0	112420.2	134476.0	158031.7
-17.5°	15651.5	21603.6	27864.9	34510.4	42074.4	51931.2	63957.4	77466.4	92158.0	108841.4	124466.9
-20°	12908.6	18409.3	24229.5	30273.6	36803.6	44046.6	53122.2	63957.4	75153.6	87253.6	98407.5



REPORT NUMBER: P1212223 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-4S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	10374.3	15158.2	20439.0	25850.4	31501.2	37579.0	44046.6	51931.2	60479.9	69361.2	77793.6
-25°	7840.0	11733.7	16535.3	21479.3	26441.0	31501.2	36803.6	42074.4	48419.5	54258.9	60606.8
-27.5°	6096.3	8835.0	12536.7	16999.0	21479.3	25850.4	30273.6	34510.4	38907.3	42764.1	47269.9
-30°	4747.8	6399.2	9169.6	12536.7	16535.3	20439.0	24229.5	27864.9	31240.9	34326.7	37299.3
-32.5°	4215.8	4895.3	6399.2	8835.0	11733.7	15158.2	18409.3	21603.6	24470.5	27066.8	29333.1
-35°	3824.6	4215.8	4747.8	6096.3	7840.0	10374.3	12908.6	15651.5	18091.2	20338.7	22252.0
-37.5°	3529.3	3797.7	4134.0	4495.2	5497.8	6604.6	8381.3	10345.2	12101.1	14046.4	15666.3
-40°	3224.6	3476.9	3717.6	3972.3	4289.4	4618.3	5562.6	6414.5	7412.7	8797.9	9948.9
-42.5°	2921.3	3148.3	3373.3	3586.0	3784.9	4007.7	4257.9	4483.0	4961.1	5559.0	6054.9
-45°	2650.1	2837.5	3022.6	3220.7	3405.4	3576.4	3732.3	3872.4	4047.3	4204.6	4334.8
-47.5°	2426.1	2558.1	2713.7	2869.4	3021.6	3179.7	3323.7	3452.8	3566.5	3663.9	3744.5
-50°	2226.5	2336.1	2452.2	2561.1	2686.3	2809.9	2922.2	3031.5	3135.9	3225.2	3299.0
-52.5°	2041.3	2140.3	2230.9	2319.1	2412.6	2498.5	2576.5	2664.8	2745.8	2815.1	2872.2
-55°	1794.5	1913.0	2024.6	2109.8	2182.3	2248.9	2311.2	2375.1	2431.1	2478.8	2518.2
-57.5°	1495.0	1633.8	1756.1	1851.8	1940.5	2021.7	2084.6	2133.8	2176.8	2213.5	2243.7
-60°	1177.0	1300.5	1419.5	1530.8	1633.8	1727.5	1794.5	1854.1	1906.2	1950.7	1987.3
-62.5°	868.3	973.3	1078.8	1177.0	1267.7	1351.8	1428.9	1497.6	1557.6	1608.6	1650.7
-65°	602.2	686.8	766.2	840.1	908.9	983.5	1050.9	1110.9	1163.2	1207.7	1244.3
-67.5°	409.6	460.8	508.8	553.5	607.4	663.0	713.1	757.7	796.6	829.7	856.9
-70°	256.5	289.8	321.1	354.0	390.3	423.4	453.3	479.8	503.0	522.7	538.9
-72.5°	140.8	158.3	177.3	202.5	225.8	247.0	266.1	283.1	297.9	310.5	320.8
-75°	65.0	73.6	87.6	100.6	112.6	123.5	133.3	142.0	149.6	156.1	161.4
-77.5°	31.8	36.8	41.4	45.8	49.8	53.4	56.7	59.6	62.1	64.3	66.0
-80°	15.0	16.7	18.4	20.0	21.4	22.7	23.8	24.9	25.8	26.5	27.2
-82.5°	7.7	8.0	8.3	8.6	8.8	9.0	9.2	9.4	9.6	9.7	9.8
-85°	5.5	5.5	5.6	5.6	5.6	5.7	5.7	5.7	5.7	5.8	5.8
-87.5°	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.8	4.9	4.9
-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: P1212223 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-100R-57-90-4S-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°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.9	4.9	4.8	4.8
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.7	5.7
82.5°	9.9	10.0	10.0	10.0	10.0	10.0	9.9	9.8	9.7	9.6	9.4
80°	27.7	28.0	28.2	28.3	28.2	28.0	27.7	27.2	26.5	25.8	24.9
77.5°	67.4	68.4	69.0	69.2	69.0	68.4	67.4	66.0	64.3	62.1	59.6
75°	165.6	168.5	170.3	170.9	170.3	168.5	165.6	161.4	156.1	149.6	142.0
72.5°	328.9	334.7	338.1	339.3	338.1	334.7	328.9	320.8	310.5	297.9	283.1
70°	551.5	560.5	566.0	567.8	566.0	560.5	551.5	538.9	522.7	503.0	479.8
67.5°	878.1	893.3	902.4	905.5	902.4	893.3	878.1	856.9	829.7	796.6	757.7
65°	1273.0	1293.5	1305.8	1309.9	1305.8	1293.5	1273.0	1244.3	1207.7	1163.2	1110.9
62.5°	1683.5	1707.0	1721.2	1725.9	1721.2	1707.0	1683.5	1650.7	1608.6	1557.6	1497.6
60°	2015.8	2036.4	2048.7	2052.8	2048.7	2036.4	2015.8	1987.3	1950.7	1906.2	1854.1
57.5°	2267.3	2284.3	2294.5	2297.9	2294.5	2284.3	2267.3	2243.7	2213.5	2176.8	2133.8
55°	2549.0	2571.1	2584.5	2588.9	2584.5	2571.1	2549.0	2518.2	2478.8	2431.1	2375.1
52.5°	2917.0	2949.1	2968.4	2974.9	2968.4	2949.1	2917.0	2872.2	2815.1	2745.8	2664.8
50°	3356.9	3398.4	3423.4	3431.8	3423.4	3398.4	3356.9	3299.0	3225.2	3135.9	3031.5
47.5°	3807.6	3853.1	3880.5	3889.6	3880.5	3853.1	3807.6	3744.5	3663.9	3566.5	3452.8
45°	4437.1	4510.7	4555.1	4569.9	4555.1	4510.7	4437.1	4334.8	4204.6	4047.3	3872.4
42.5°	6444.9	6725.9	6895.4	6952.1	6895.4	6725.9	6444.9	6054.9	5559.0	4961.1	4483.0
40°	10855.5	11509.4	11904.3	12036.4	11904.3	11509.4	10855.5	9948.9	8797.9	7412.7	6414.5
37.5°	16944.8	17868.2	18426.5	18613.3	18426.5	17868.2	16944.8	15666.3	14046.4	12101.1	10345.2
35°	23765.4	24860.5	25523.4	25745.4	25523.4	24860.5	23765.4	22252.0	20338.7	18091.2	15651.5
32.5°	31130.7	32434.4	33224.8	33489.6	33224.8	32434.4	31130.7	29333.1	27066.8	24470.5	21603.6
30°	39665.1	41385.6	42430.6	42781.2	42430.6	41385.6	39665.1	37299.3	34326.7	31240.9	27864.9
27.5°	50876.3	53508.1	55110.7	55648.9	55110.7	53508.1	50876.3	47269.9	42764.1	38907.3	34510.4
25°	66140.3	70196.3	72674.0	73507.6	72674.0	70196.3	66140.3	60606.8	54258.9	48419.5	42074.4
22.5°	85421.0	91044.1	94493.8	95657.0	94493.8	91044.1	85421.0	77793.6	69361.2	60479.9	51931.2
20°	109858.5	118365.9	123615.5	125391.2	123615.5	118365.9	109858.5	98407.5	87253.6	75153.6	63957.4
17.5°	141532.4	154586.8	162708.3	165467.7	162708.3	154586.8	141532.4	124466.9	108841.4	92158.0	77466.4
15°	177735.4	192728.7	202168.8	205398.2	202168.8	192728.7	177735.4	158031.7	134476.0	112420.2	92158.0
12.5°	211405.9	225289.9	233431.9	236045.0	233431.9	225289.9	211405.9	190098.1	163753.0	134476.0	108841.4
10°	236291.0	249255.3	257034.4	259743.9	257034.4	249255.3	236291.0	217243.5	190098.1	158031.7	124466.9
7.5°	254484.4	267958.4	276738.1	279615.8	276738.1	267958.4	254484.4	236291.0	211405.9	177735.4	141532.4
5°	267958.4	282707.4	291573.5	294665.1	291573.5	282707.4	267958.4	249255.3	225289.9	192728.7	154586.8
2.5°	276738.1	291573.5	301147.1	304277.4	301147.1	291573.5	276738.1	257034.4	233431.9	202168.8	162708.3
0°	279615.8	294665.1	304277.4	307793.8	304277.4	294665.1	279615.8	259743.9	236045.0	205398.2	165467.7
-2.5°	276738.1	291573.5	301147.1	304277.4	301147.1	291573.5	276738.1	257034.4	233431.9	202168.8	162708.3
-5°	267958.4	282707.4	291573.5	294665.1	291573.5	282707.4	267958.4	249255.3	225289.9	192728.7	154586.8
-7.5°	254484.4	267958.4	276738.1	279615.8	276738.1	267958.4	254484.4	236291.0	211405.9	177735.4	141532.4
-10°	236291.0	249255.3	257034.4	259743.9	257034.4	249255.3	236291.0	217243.5	190098.1	158031.7	124466.9
-12.5°	211405.9	225289.9	233431.9	236045.0	233431.9	225289.9	211405.9	190098.1	163753.0	134476.0	108841.4
-15°	177735.4	192728.7	202168.8	205398.2	202168.8	192728.7	177735.4	158031.7	134476.0	112420.2	92158.0
-17.5°	141532.4	154586.8	162708.3	165467.7	162708.3	154586.8	141532.4	124466.9	108841.4	92158.0	77466.4
-20°	109858.5	118365.9	123615.5	125391.2	123615.5	118365.9	109858.5	98407.5	87253.6	75153.6	63957.4



REPORT NUMBER: P1212223 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	85421.0	91044.1	94493.8	95657.0	94493.8	91044.1	85421.0	77793.6	69361.2	60479.9	51931.2
-25°	66140.3	70196.3	72674.0	73507.6	72674.0	70196.3	66140.3	60606.8	54258.9	48419.5	42074.4
-27.5°	50876.3	53508.1	55110.7	55648.9	55110.7	53508.1	50876.3	47269.9	42764.1	38907.3	34510.4
-30°	39665.1	41385.6	42430.6	42781.2	42430.6	41385.6	39665.1	37299.3	34326.7	31240.9	27864.9
-32.5°	31130.7	32434.4	33224.8	33489.6	33224.8	32434.4	31130.7	29333.1	27066.8	24470.5	21603.6
-35°	23765.4	24860.5	25523.4	25745.4	25523.4	24860.5	23765.4	22252.0	20338.7	18091.2	15651.5
-37.5°	16944.8	17868.2	18426.5	18613.3	18426.5	17868.2	16944.8	15666.3	14046.4	12101.1	10345.2
-40°	10855.5	11509.4	11904.3	12036.4	11904.3	11509.4	10855.5	9948.9	8797.9	7412.7	6414.5
-42.5°	6444.9	6725.9	6895.4	6952.1	6895.4	6725.9	6444.9	6054.9	5559.0	4961.1	4483.0
-45°	4437.1	4510.7	4555.1	4569.9	4555.1	4510.7	4437.1	4334.8	4204.6	4047.3	3872.4
-47.5°	3807.6	3853.1	3880.5	3889.6	3880.5	3853.1	3807.6	3744.5	3663.9	3566.5	3452.8
-50°	3356.9	3398.4	3423.4	3431.8	3423.4	3398.4	3356.9	3299.0	3225.2	3135.9	3031.5
-52.5°	2917.0	2949.1	2968.4	2974.9	2968.4	2949.1	2917.0	2872.2	2815.1	2745.8	2664.8
-55°	2549.0	2571.1	2584.5	2588.9	2584.5	2571.1	2549.0	2518.2	2478.8	2431.1	2375.1
-57.5°	2267.3	2284.3	2294.5	2297.9	2294.5	2284.3	2267.3	2243.7	2213.5	2176.8	2133.8
-60°	2015.8	2036.4	2048.7	2052.8	2048.7	2036.4	2015.8	1987.3	1950.7	1906.2	1854.1
-62.5°	1683.5	1707.0	1721.2	1725.9	1721.2	1707.0	1683.5	1650.7	1608.6	1557.6	1497.6
-65°	1273.0	1293.5	1305.8	1309.9	1305.8	1293.5	1273.0	1244.3	1207.7	1163.2	1110.9
-67.5°	878.1	893.3	902.4	905.5	902.4	893.3	878.1	856.9	829.7	796.6	757.7
-70°	551.5	560.5	566.0	567.8	566.0	560.5	551.5	538.9	522.7	503.0	479.8
-72.5°	328.9	334.7	338.1	339.3	338.1	334.7	328.9	320.8	310.5	297.9	283.1
-75°	165.6	168.5	170.3	170.9	170.3	168.5	165.6	161.4	156.1	149.6	142.0
-77.5°	67.4	68.4	69.0	69.2	69.0	68.4	67.4	66.0	64.3	62.1	59.6
-80°	27.7	28.0	28.2	28.3	28.2	28.0	27.7	27.2	26.5	25.8	24.9
-82.5°	9.9	10.0	10.0	10.0	10.0	10.0	9.9	9.8	9.7	9.6	9.4
-85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.7	5.7
-87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.9	4.9	4.8	4.8
-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):**

	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°	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.8	3.7	3.5
85°	5.7	5.7	5.6	5.6	5.6	5.5	5.5	5.5	5.4	5.4	5.3
82.5°	9.2	9.0	8.8	8.6	8.3	8.0	7.7	7.4	7.0	6.7	6.3
80°	23.8	22.7	21.4	20.0	18.4	16.7	15.0	13.1	11.1	9.8	9.2
77.5°	56.7	53.4	49.8	45.8	41.4	36.8	31.8	27.5	25.0	22.3	19.5
75°	133.3	123.5	112.6	100.6	87.6	73.6	65.0	58.6	51.8	44.7	37.2
72.5°	266.1	247.0	225.8	202.5	177.3	158.3	140.8	122.2	102.5	81.8	65.5
70°	453.3	423.4	390.3	354.0	321.1	289.8	256.5	221.0	183.6	154.9	130.0
67.5°	713.1	663.0	607.4	553.5	508.8	460.8	409.6	355.2	308.8	264.4	218.0
65°	1050.9	983.5	908.9	840.1	766.2	686.8	602.2	530.3	466.3	399.2	331.7
62.5°	1428.9	1351.8	1267.7	1177.0	1078.8	973.3	868.3	769.0	664.4	559.0	481.6
60°	1794.5	1727.5	1633.8	1530.8	1419.5	1300.5	1177.0	1046.3	908.9	788.2	663.0
57.5°	2084.6	2021.7	1940.5	1851.8	1756.1	1633.8	1495.0	1348.3	1197.5	1040.9	882.4
55°	2311.2	2248.9	2182.3	2109.8	2024.6	1913.0	1794.5	1654.0	1487.1	1312.7	1136.4
52.5°	2576.5	2498.5	2412.6	2319.1	2230.9	2140.3	2041.3	1906.2	1764.7	1587.5	1392.6
50°	2922.2	2809.9	2686.3	2561.1	2452.2	2336.1	2226.5	2117.6	1987.3	1829.0	1648.4
47.5°	3323.7	3179.7	3021.6	2869.4	2713.7	2558.1	2426.1	2289.1	2167.2	2036.4	1861.4
45°	3732.3	3576.4	3405.4	3220.7	3022.6	2837.5	2650.1	2486.9	2332.6	2192.2	2052.8
42.5°	4257.9	4007.7	3784.9	3586.0	3373.3	3148.3	2921.3	2712.0	2517.6	2347.7	2192.2
40°	5562.6	4618.3	4289.4	3972.3	3717.6	3476.9	3224.6	2963.6	2732.8	2517.6	2332.6
37.5°	8381.3	6604.6	5497.8	4495.2	4134.0	3797.7	3529.3	3250.2	2963.6	2712.0	2486.9
35°	12908.6	10374.3	7840.0	6096.3	4747.8	4215.8	3824.6	3529.3	3224.6	2921.3	2650.1
32.5°	18409.3	15158.2	11733.7	8835.0	6399.2	4895.3	4215.8	3797.7	3476.9	3148.3	2837.5
30°	24229.5	20439.0	16535.3	12536.7	9169.6	6399.2	4747.8	4134.0	3717.6	3373.3	3022.6
27.5°	30273.6	25850.4	21479.3	16999.0	12536.7	8835.0	6096.3	4495.2	3972.3	3586.0	3220.7
25°	36803.6	31501.2	26441.0	21479.3	16535.3	11733.7	7840.0	5497.8	4289.4	3784.9	3405.4
22.5°	44046.6	37579.0	31501.2	25850.4	20439.0	15158.2	10374.3	6604.6	4618.3	4007.7	3576.4
20°	53122.2	44046.6	36803.6	30273.6	24229.5	18409.3	12908.6	8381.3	5562.6	4257.9	3732.3
17.5°	63957.4	51931.2	42074.4	34510.4	27864.9	21603.6	15651.5	10345.2	6414.5	4483.0	3872.4
15°	75153.6	60479.9	48419.5	38907.3	31240.9	24470.5	18091.2	12101.1	7412.7	4961.1	4047.3
12.5°	87253.6	69361.2	54258.9	42764.1	34326.7	27066.8	20338.7	14046.4	8797.9	5559.0	4204.6
10°	98407.5	77793.6	60606.8	47269.9	37299.3	29333.1	22252.0	15666.3	9948.9	6054.9	4334.8
7.5°	109858.5	85421.0	66140.3	50876.3	39665.1	31130.7	23765.4	16944.8	10855.5	6444.9	4437.1
5°	118365.9	91044.1	70196.3	53508.1	41385.6	32434.4	24860.5	17868.2	11509.4	6725.9	4510.7
2.5°	123615.5	94493.8	72674.0	55110.7	42430.6	33224.8	25523.4	18426.5	11904.3	6895.4	4555.1
0°	125391.2	95657.0	73507.6	55648.9	42781.2	33489.6	25745.4	18613.3	12036.4	6952.1	4569.9
-2.5°	123615.5	94493.8	72674.0	55110.7	42430.6	33224.8	25523.4	18426.5	11904.3	6895.4	4555.1
-5°	118365.9	91044.1	70196.3	53508.1	41385.6	32434.4	24860.5	17868.2	11509.4	6725.9	4510.7
-7.5°	109858.5	85421.0	66140.3	50876.3	39665.1	31130.7	23765.4	16944.8	10855.5	6444.9	4437.1
-10°	98407.5	77793.6	60606.8	47269.9	37299.3	29333.1	22252.0	15666.3	9948.9	6054.9	4334.8
-12.5°	87253.6	69361.2	54258.9	42764.1	34326.7	27066.8	20338.7	14046.4	8797.9	5559.0	4204.6
-15°	75153.6	60479.9	48419.5	38907.3	31240.9	24470.5	18091.2	12101.1	7412.7	4961.1	4047.3
-17.5°	63957.4	51931.2	42074.4	34510.4	27864.9	21603.6	15651.5	10345.2	6414.5	4483.0	3872.4
-20°	53122.2	44046.6	36803.6	30273.6	24229.5	18409.3	12908.6	8381.3	5562.6	4257.9	3732.3



REPORT NUMBER: P1212223 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-4S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	44046.6	37579.0	31501.2	25850.4	20439.0	15158.2	10374.3	6604.6	4618.3	4007.7	3576.4
-25°	36803.6	31501.2	26441.0	21479.3	16535.3	11733.7	7840.0	5497.8	4289.4	3784.9	3405.4
-27.5°	30273.6	25850.4	21479.3	16999.0	12536.7	8835.0	6096.3	4495.2	3972.3	3586.0	3220.7
-30°	24229.5	20439.0	16535.3	12536.7	9169.6	6399.2	4747.8	4134.0	3717.6	3373.3	3022.6
-32.5°	18409.3	15158.2	11733.7	8835.0	6399.2	4895.3	4215.8	3797.7	3476.9	3148.3	2837.5
-35°	12908.6	10374.3	7840.0	6096.3	4747.8	4215.8	3824.6	3529.3	3224.6	2921.3	2650.1
-37.5°	8381.3	6604.6	5497.8	4495.2	4134.0	3797.7	3529.3	3250.2	2963.6	2712.0	2486.9
-40°	5562.6	4618.3	4289.4	3972.3	3717.6	3476.9	3224.6	2963.6	2732.8	2517.6	2332.6
-42.5°	4257.9	4007.7	3784.9	3586.0	3373.3	3148.3	2921.3	2712.0	2517.6	2347.7	2192.2
-45°	3732.3	3576.4	3405.4	3220.7	3022.6	2837.5	2650.1	2486.9	2332.6	2192.2	2052.8
-47.5°	3323.7	3179.7	3021.6	2869.4	2713.7	2558.1	2426.1	2289.1	2167.2	2036.4	1861.4
-50°	2922.2	2809.9	2686.3	2561.1	2452.2	2336.1	2226.5	2117.6	1987.3	1829.0	1648.4
-52.5°	2576.5	2498.5	2412.6	2319.1	2230.9	2140.3	2041.3	1906.2	1764.7	1587.5	1392.6
-55°	2311.2	2248.9	2182.3	2109.8	2024.6	1913.0	1794.5	1654.0	1487.1	1312.7	1136.4
-57.5°	2084.6	2021.7	1940.5	1851.8	1756.1	1633.8	1495.0	1348.3	1197.5	1040.9	882.4
-60°	1794.5	1727.5	1633.8	1530.8	1419.5	1300.5	1177.0	1046.3	908.9	788.2	663.0
-62.5°	1428.9	1351.8	1267.7	1177.0	1078.8	973.3	868.3	769.0	664.4	559.0	481.6
-65°	1050.9	983.5	908.9	840.1	766.2	686.8	602.2	530.3	466.3	399.2	331.7
-67.5°	713.1	663.0	607.4	553.5	508.8	460.8	409.6	355.2	308.8	264.4	218.0
-70°	453.3	423.4	390.3	354.0	321.1	289.8	256.5	221.0	183.6	154.9	130.0
-72.5°	266.1	247.0	225.8	202.5	177.3	158.3	140.8	122.2	102.5	81.8	65.5
-75°	133.3	123.5	112.6	100.6	87.6	73.6	65.0	58.6	51.8	44.7	37.2
-77.5°	56.7	53.4	49.8	45.8	41.4	36.8	31.8	27.5	25.0	22.3	19.5
-80°	23.8	22.7	21.4	20.0	18.4	16.7	15.0	13.1	11.1	9.8	9.2
-82.5°	9.2	9.0	8.8	8.6	8.3	8.0	7.7	7.4	7.0	6.7	6.3
-85°	5.7	5.7	5.6	5.6	5.6	5.5	5.5	5.5	5.4	5.4	5.3
-87.5°	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.8	3.7	3.5
-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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 CATALOG NUMBER: EPH-LS12-1000R-57-90-4S-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°	3.4	3.2	3.0	2.9	2.7	2.5	2.3	2.1	1.9	1.7	1.5
85°	5.3	5.2	5.2	5.1	5.1	5.0	4.6	4.2	3.8	3.4	3.0
82.5°	5.9	5.7	5.7	5.6	5.5	5.4	5.3	5.2	5.1	5.0	4.5
80°	8.7	8.2	7.6	7.0	6.4	5.8	5.7	5.5	5.4	5.3	5.2
77.5°	16.6	13.6	10.5	9.4	8.6	7.8	7.0	6.2	5.7	5.6	5.4
75°	29.4	25.2	21.5	17.6	13.6	9.9	8.9	7.9	6.9	5.9	5.6
72.5°	56.5	47.0	37.3	27.8	23.2	18.4	13.5	9.7	8.5	7.3	6.1
70°	104.2	77.3	61.3	49.8	37.9	27.2	21.6	15.9	10.2	8.7	7.3
67.5°	170.2	140.0	108.7	76.5	58.8	45.2	31.2	23.2	16.7	10.2	8.5
65°	278.0	222.3	167.2	131.4	94.6	64.3	48.8	33.0	23.2	15.9	9.7
62.5°	401.2	323.5	260.2	195.0	145.1	103.7	66.1	48.8	31.2	21.6	13.5
60°	544.3	453.3	359.5	283.1	210.2	149.6	103.7	64.3	45.2	27.2	18.4
57.5°	741.3	595.4	484.8	380.4	290.8	210.2	145.1	94.6	58.8	37.9	23.2
55°	953.9	788.6	626.8	495.4	380.4	283.1	195.0	131.4	76.5	49.8	27.8
52.5°	1194.2	992.2	804.5	626.8	484.8	359.5	260.2	167.2	108.7	61.3	37.3
50°	1432.7	1213.6	992.2	788.6	595.4	453.3	323.5	222.3	140.0	77.3	47.0
47.5°	1668.7	1432.7	1194.2	953.9	741.3	544.3	401.2	278.0	170.2	104.2	56.5
45°	1861.4	1648.4	1392.6	1136.4	882.4	663.0	481.6	331.7	218.0	130.0	65.5
42.5°	2036.4	1829.0	1587.5	1312.7	1040.9	788.2	559.0	399.2	264.4	154.9	81.8
40°	2167.2	1987.3	1764.7	1487.1	1197.5	908.9	664.4	466.3	308.8	183.6	102.5
37.5°	2289.1	2117.6	1906.2	1654.0	1348.3	1046.3	769.0	530.3	355.2	221.0	122.2
35°	2426.1	2226.5	2041.3	1794.5	1495.0	1177.0	868.3	602.2	409.6	256.5	140.8
32.5°	2558.1	2336.1	2140.3	1913.0	1633.8	1300.5	973.3	686.8	460.8	289.8	158.3
30°	2713.7	2452.2	2230.9	2024.6	1756.1	1419.5	1078.8	766.2	508.8	321.1	177.3
27.5°	2869.4	2561.1	2319.1	2109.8	1851.8	1530.8	1177.0	840.1	553.5	354.0	202.5
25°	3021.6	2686.3	2412.6	2182.3	1940.5	1633.8	1267.7	908.9	607.4	390.3	225.8
22.5°	3179.7	2809.9	2498.5	2248.9	2021.7	1727.5	1351.8	983.5	663.0	423.4	247.0
20°	3323.7	2922.2	2576.5	2311.2	2084.6	1794.5	1428.9	1050.9	713.1	453.3	266.1
17.5°	3452.8	3031.5	2664.8	2375.1	2133.8	1854.1	1497.6	1110.9	757.7	479.8	283.1
15°	3566.5	3135.9	2745.8	2431.1	2176.8	1906.2	1557.6	1163.2	796.6	503.0	297.9
12.5°	3663.9	3225.2	2815.1	2478.8	2213.5	1950.7	1608.6	1207.7	829.7	522.7	310.5
10°	3744.5	3299.0	2872.2	2518.2	2243.7	1987.3	1650.7	1244.3	856.9	538.9	320.8
7.5°	3807.6	3356.9	2917.0	2549.0	2267.3	2015.8	1683.5	1273.0	878.1	551.5	328.9
5°	3853.1	3398.4	2949.1	2571.1	2284.3	2036.4	1707.0	1293.5	893.3	560.5	334.7
2.5°	3880.5	3423.4	2968.4	2584.5	2294.5	2048.7	1721.2	1305.8	902.4	566.0	338.1
0°	3889.6	3431.8	2974.9	2588.9	2297.9	2052.8	1725.9	1309.9	905.5	567.8	339.3
-2.5°	3880.5	3423.4	2968.4	2584.5	2294.5	2048.7	1721.2	1305.8	902.4	566.0	338.1
-5°	3853.1	3398.4	2949.1	2571.1	2284.3	2036.4	1707.0	1293.5	893.3	560.5	334.7
-7.5°	3807.6	3356.9	2917.0	2549.0	2267.3	2015.8	1683.5	1273.0	878.1	551.5	328.9
-10°	3744.5	3299.0	2872.2	2518.2	2243.7	1987.3	1650.7	1244.3	856.9	538.9	320.8
-12.5°	3663.9	3225.2	2815.1	2478.8	2213.5	1950.7	1608.6	1207.7	829.7	522.7	310.5
-15°	3566.5	3135.9	2745.8	2431.1	2176.8	1906.2	1557.6	1163.2	796.6	503.0	297.9
-17.5°	3452.8	3031.5	2664.8	2375.1	2133.8	1854.1	1497.6	1110.9	757.7	479.8	283.1
-20°	3323.7	2922.2	2576.5	2311.2	2084.6	1794.5	1428.9	1050.9	713.1	453.3	266.1



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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°	3179.7	2809.9	2498.5	2248.9	2021.7	1727.5	1351.8	983.5	663.0	423.4	247.0
-25°	3021.6	2686.3	2412.6	2182.3	1940.5	1633.8	1267.7	908.9	607.4	390.3	225.8
-27.5°	2869.4	2561.1	2319.1	2109.8	1851.8	1530.8	1177.0	840.1	553.5	354.0	202.5
-30°	2713.7	2452.2	2230.9	2024.6	1756.1	1419.5	1078.8	766.2	508.8	321.1	177.3
-32.5°	2558.1	2336.1	2140.3	1913.0	1633.8	1300.5	973.3	686.8	460.8	289.8	158.3
-35°	2426.1	2226.5	2041.3	1794.5	1495.0	1177.0	868.3	602.2	409.6	256.5	140.8
-37.5°	2289.1	2117.6	1906.2	1654.0	1348.3	1046.3	769.0	530.3	355.2	221.0	122.2
-40°	2167.2	1987.3	1764.7	1487.1	1197.5	908.9	664.4	466.3	308.8	183.6	102.5
-42.5°	2036.4	1829.0	1587.5	1312.7	1040.9	788.2	559.0	399.2	264.4	154.9	81.8
-45°	1861.4	1648.4	1392.6	1136.4	882.4	663.0	481.6	331.7	218.0	130.0	65.5
-47.5°	1668.7	1432.7	1194.2	953.9	741.3	544.3	401.2	278.0	170.2	104.2	56.5
-50°	1432.7	1213.6	992.2	788.6	595.4	453.3	323.5	222.3	140.0	77.3	47.0
-52.5°	1194.2	992.2	804.5	626.8	484.8	359.5	260.2	167.2	108.7	61.3	37.3
-55°	953.9	788.6	626.8	495.4	380.4	283.1	195.0	131.4	76.5	49.8	27.8
-57.5°	741.3	595.4	484.8	380.4	290.8	210.2	145.1	94.6	58.8	37.9	23.2
-60°	544.3	453.3	359.5	283.1	210.2	149.6	103.7	64.3	45.2	27.2	18.4
-62.5°	401.2	323.5	260.2	195.0	145.1	103.7	66.1	48.8	31.2	21.6	13.5
-65°	278.0	222.3	167.2	131.4	94.6	64.3	48.8	33.0	23.2	15.9	9.7
-67.5°	170.2	140.0	108.7	76.5	58.8	45.2	31.2	23.2	16.7	10.2	8.5
-70°	104.2	77.3	61.3	49.8	37.9	27.2	21.6	15.9	10.2	8.7	7.3
-72.5°	56.5	47.0	37.3	27.8	23.2	18.4	13.5	9.7	8.5	7.3	6.1
-75°	29.4	25.2	21.5	17.6	13.6	9.9	8.9	7.9	6.9	5.9	5.6
-77.5°	16.6	13.6	10.5	9.4	8.6	7.8	7.0	6.2	5.7	5.6	5.4
-80°	8.7	8.2	7.6	7.0	6.4	5.8	5.7	5.5	5.4	5.3	5.2
-82.5°	5.9	5.7	5.7	5.6	5.5	5.4	5.3	5.2	5.1	5.0	4.5
-85°	5.3	5.2	5.2	5.1	5.1	5.0	4.6	4.2	3.8	3.4	3.0
-87.5°	3.4	3.2	3.0	2.9	2.7	2.5	2.3	2.1	1.9	1.7	1.5
-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°	1.3	1.1	0.9	0.7	0.4	0.2	0.0
85°	2.6	2.2	1.7	1.3	0.9	0.4	0.0
82.5°	3.9	3.2	2.6	2.0	1.3	0.7	0.0
80°	5.0	4.3	3.5	2.6	1.7	0.9	0.0
77.5°	5.2	5.1	4.3	3.2	2.2	1.1	0.0
75°	5.4	5.2	5.0	3.9	2.6	1.3	0.0
72.5°	5.6	5.4	5.2	4.5	3.0	1.5	0.0
70°	5.9	5.6	5.3	5.0	3.4	1.7	0.0
67.5°	6.9	5.7	5.4	5.1	3.8	1.9	0.0
65°	7.9	6.2	5.5	5.2	4.2	2.1	0.0
62.5°	8.9	7.0	5.7	5.3	4.6	2.3	0.0
60°	9.9	7.8	5.8	5.4	5.0	2.5	0.0
57.5°	13.6	8.6	6.4	5.5	5.1	2.7	0.0
55°	17.6	9.4	7.0	5.6	5.1	2.9	0.0
52.5°	21.5	10.5	7.6	5.7	5.2	3.0	0.0
50°	25.2	13.6	8.2	5.7	5.2	3.2	0.0
47.5°	29.4	16.6	8.7	5.9	5.3	3.4	0.0
45°	37.2	19.5	9.2	6.3	5.3	3.5	0.0
42.5°	44.7	22.3	9.8	6.7	5.4	3.7	0.0
40°	51.8	25.0	11.1	7.0	5.4	3.8	0.0
37.5°	58.6	27.5	13.1	7.4	5.5	4.0	0.0
35°	65.0	31.8	15.0	7.7	5.5	4.1	0.0
32.5°	73.6	36.8	16.7	8.0	5.5	4.2	0.0
30°	87.6	41.4	18.4	8.3	5.6	4.3	0.0
27.5°	100.6	45.8	20.0	8.6	5.6	4.4	0.0
25°	112.6	49.8	21.4	8.8	5.6	4.5	0.0
22.5°	123.5	53.4	22.7	9.0	5.7	4.6	0.0
20°	133.3	56.7	23.8	9.2	5.7	4.7	0.0
17.5°	142.0	59.6	24.9	9.4	5.7	4.8	0.0
15°	149.6	62.1	25.8	9.6	5.7	4.8	0.0
12.5°	156.1	64.3	26.5	9.7	5.8	4.9	0.0
10°	161.4	66.0	27.2	9.8	5.8	4.9	0.0
7.5°	165.6	67.4	27.7	9.9	5.8	5.0	0.0
5°	168.5	68.4	28.0	10.0	5.8	5.0	0.0
2.5°	170.3	69.0	28.2	10.0	5.8	5.0	0.0
0°	170.9	69.2	28.3	10.0	5.8	5.0	0.0
-2.5°	170.3	69.0	28.2	10.0	5.8	5.0	0.0
-5°	168.5	68.4	28.0	10.0	5.8	5.0	0.0
-7.5°	165.6	67.4	27.7	9.9	5.8	5.0	0.0
-10°	161.4	66.0	27.2	9.8	5.8	4.9	0.0
-12.5°	156.1	64.3	26.5	9.7	5.8	4.9	0.0
-15°	149.6	62.1	25.8	9.6	5.7	4.8	0.0
-17.5°	142.0	59.6	24.9	9.4	5.7	4.8	0.0
-20°	133.3	56.7	23.8	9.2	5.7	4.7	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	123.5	53.4	22.7	9.0	5.7	4.6	0.0
-25°	112.6	49.8	21.4	8.8	5.6	4.5	0.0
-27.5°	100.6	45.8	20.0	8.6	5.6	4.4	0.0
-30°	87.6	41.4	18.4	8.3	5.6	4.3	0.0
-32.5°	73.6	36.8	16.7	8.0	5.5	4.2	0.0
-35°	65.0	31.8	15.0	7.7	5.5	4.1	0.0
-37.5°	58.6	27.5	13.1	7.4	5.5	4.0	0.0
-40°	51.8	25.0	11.1	7.0	5.4	3.8	0.0
-42.5°	44.7	22.3	9.8	6.7	5.4	3.7	0.0
-45°	37.2	19.5	9.2	6.3	5.3	3.5	0.0
-47.5°	29.4	16.6	8.7	5.9	5.3	3.4	0.0
-50°	25.2	13.6	8.2	5.7	5.2	3.2	0.0
-52.5°	21.5	10.5	7.6	5.7	5.2	3.0	0.0
-55°	17.6	9.4	7.0	5.6	5.1	2.9	0.0
-57.5°	13.6	8.6	6.4	5.5	5.1	2.7	0.0
-60°	9.9	7.8	5.8	5.4	5.0	2.5	0.0
-62.5°	8.9	7.0	5.7	5.3	4.6	2.3	0.0
-65°	7.9	6.2	5.5	5.2	4.2	2.1	0.0
-67.5°	6.9	5.7	5.4	5.1	3.8	1.9	0.0
-70°	5.9	5.6	5.3	5.0	3.4	1.7	0.0
-72.5°	5.6	5.4	5.2	4.5	3.0	1.5	0.0
-75°	5.4	5.2	5.0	3.9	2.6	1.3	0.0
-77.5°	5.2	5.1	4.3	3.2	2.2	1.1	0.0
-80°	5.0	4.3	3.5	2.6	1.7	0.9	0.0
-82.5°	3.9	3.2	2.6	2.0	1.3	0.7	0.0
-85°	2.6	2.2	1.7	1.3	0.9	0.4	0.0
-87.5°	1.3	1.1	0.9	0.7	0.4	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)