

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: P1212226 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-57-90-5S-HEG**

Issue Date: 11/14/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1212226 (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-57-90-5S-HEG  
Description: EPHESUS LS12 LUMINAIRE  
(12) 5700K, 90 CRI LEDS AND 5S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

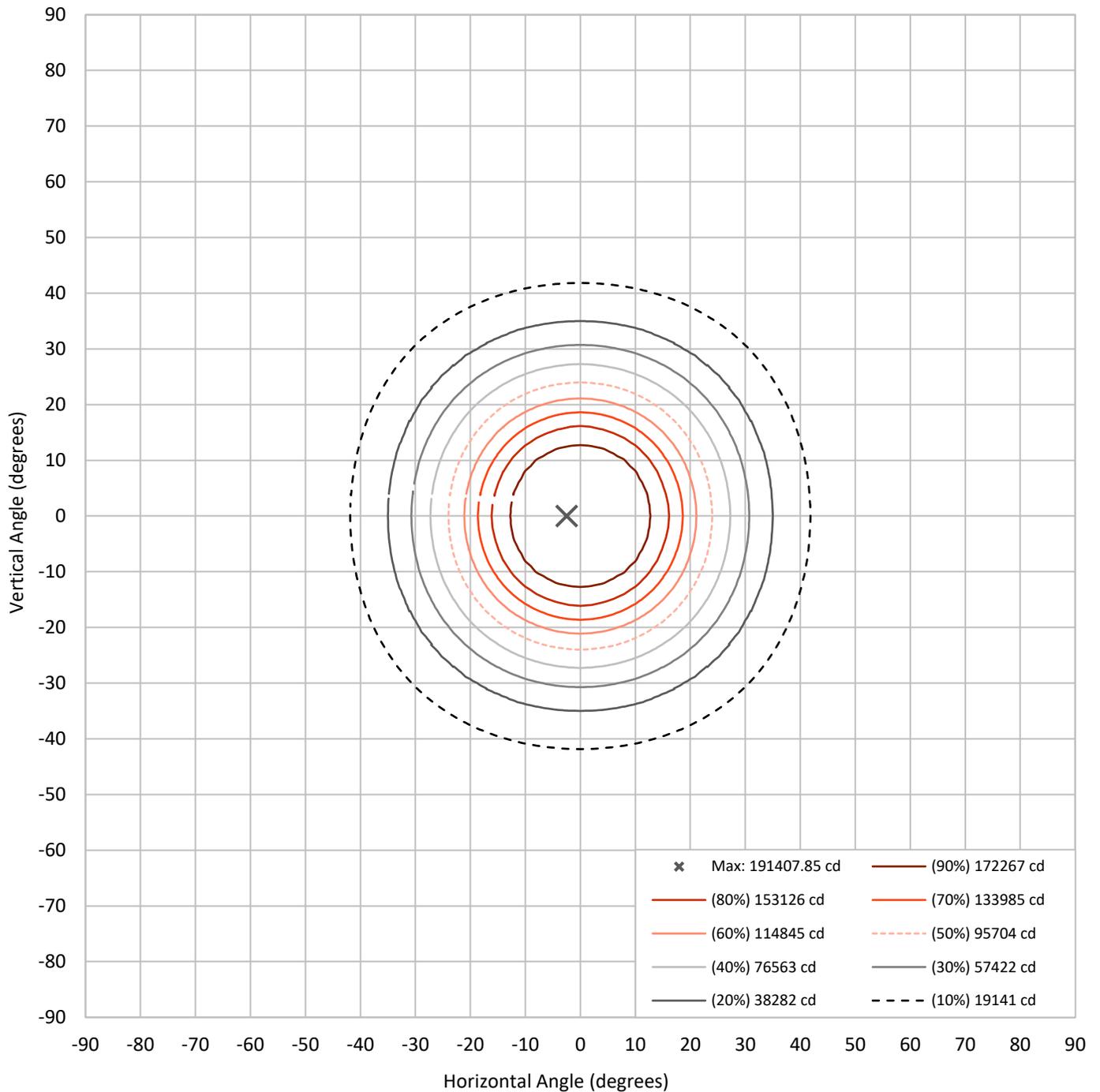
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	140007.6 lumens	Max Intensity:	191407.8 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	134.5 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:	79383.3 lumens	Field Lumens:	130228.1 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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CATALOG NUMBER: EPH-LS12-1000R-57-90-5S-HEG

### Iso-Candela Plot





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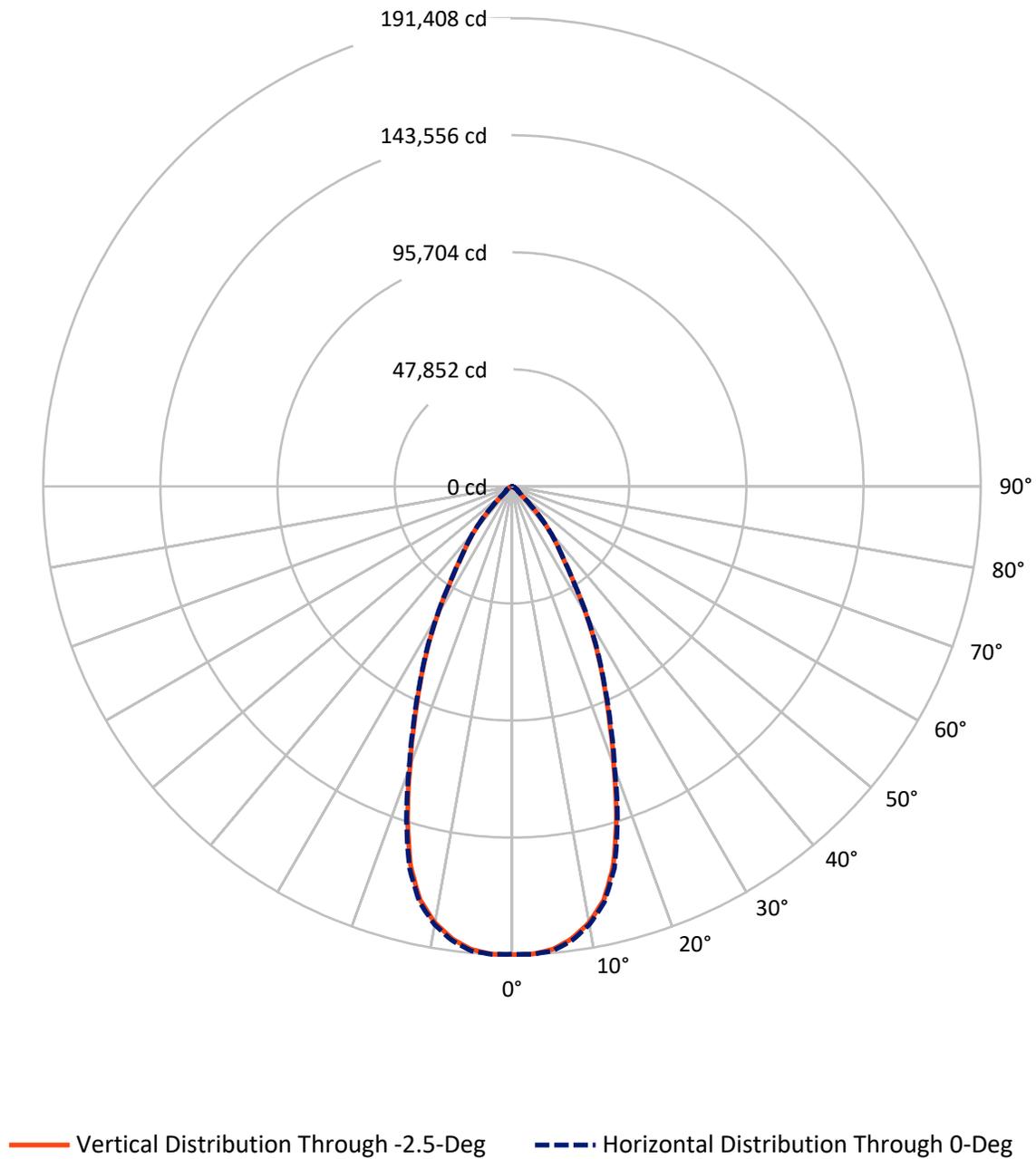
CATALOG NUMBER: EPH-LS12-1000R-57-90-5S-HEG

### Lumen Table

90	0.1	0.9	3.9	9.6	12.6	9.6	3.9	0.9	0.1										
80	0.1	0.9	3.9	9.6	12.6	9.6	3.9	0.9	0.1										
70	0.4	0.6	2.4	6.9	14.4	23.4	31.4	36.0	36.0	31.4	23.4	14.4	6.9	2.4	0.6	0.4			
60		1.8	8.2	22.3	42.3	62.0	76.6	84.7	84.7	76.6	62.0	42.3	22.3	8.2	1.8				
50	1.3	4.2	18.3	44.0	72.3	125.0	242.4	341.5	341.5	242.4	125.0	72.3	44.0	18.3	4.2	1.3			
40		7.7	29.9	62.5	168.0	509.9	894.5	1159.5	1159.5	894.5	509.9	168.0	62.5	29.9	7.7				
30	2.8	11.3	39.7	98.7	463.5	1108.0	1973.8	2624.9	2624.9	1973.8	1108.0	463.5	98.7	39.7	11.3	2.8			
20		14.3	46.0	181.4	763.9	1857.4	3377.8	4582.6	4582.6	3377.8	1857.4	763.9	181.4	46.0	14.3				
10	3.5	15.8	49.3	248.5	961.4	2397.8	4449.3	5616.7	5616.7	4449.3	2397.8	961.4	248.5	49.3	15.8	3.5			
0		15.8	49.3	248.5	961.4	2397.8	4449.3	5616.7	5616.7	4449.3	2397.8	961.4	248.5	49.3	15.8				
-10	2.8	14.3	46.0	181.4	763.9	1857.4	3377.8	4582.6	4582.6	3377.8	1857.4	763.9	181.4	46.0	14.3	2.8			
-20		11.3	39.7	98.7	463.5	1108.0	1973.8	2624.9	2624.9	1973.8	1108.0	463.5	98.7	39.7	11.3				
-30	1.3	7.7	29.9	62.5	168.0	509.9	894.5	1159.5	1159.5	894.5	509.9	168.0	62.5	29.9	7.7	1.3			
-40		4.2	18.3	44.0	72.3	125.0	242.4	341.5	341.5	242.4	125.0	72.3	44.0	18.3	4.2				
-50	0.4	1.8	8.2	22.3	42.3	62.0	76.6	84.7	84.7	76.6	62.0	42.3	22.3	8.2	1.8	0.4			
-60		0.6	2.4	6.9	14.4	23.4	31.4	36.0	36.0	31.4	23.4	14.4	6.9	2.4	0.6				
-70	0.1	0.6	2.4	6.9	14.4	23.4	31.4	36.0	36.0	31.4	23.4	14.4	6.9	2.4	0.6	0.1			
-80		0.1	0.9	3.9	9.6	12.6	9.6	3.9	0.9	0.1									
-90	0.1	0.9	3.9	9.6	12.6	9.6	3.9	0.9	0.1										

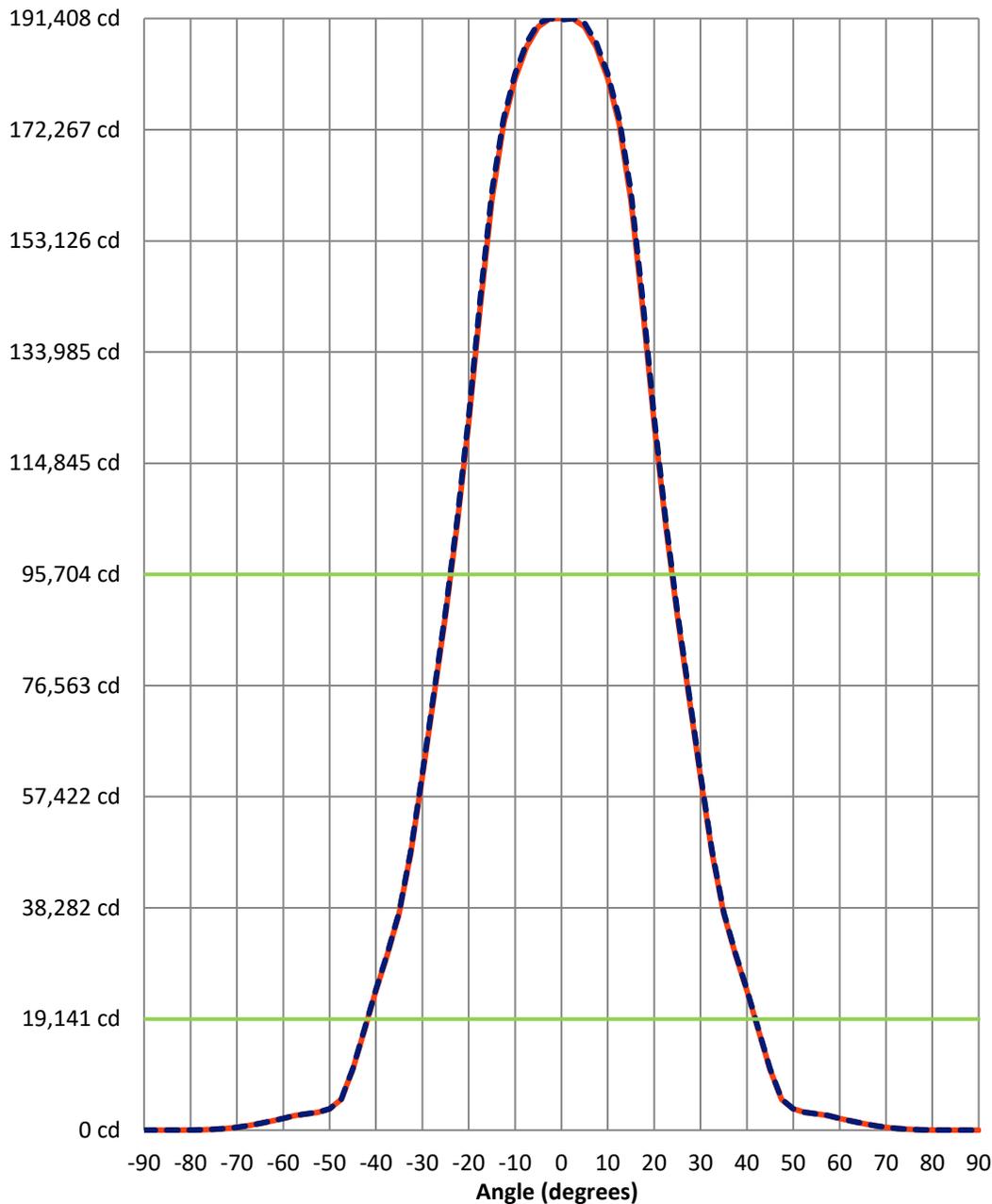
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 48°  
 V Angle: 47.7°  
 Lumens: 79383.3  
 Efficiency: 56.7%

**Field:**  
 H Angle: 83.7°  
 V Angle: 83.6°  
 Lumens: 130228.1  
 Efficiency: 93.0%

**Spill:**  
 Lumens: 9779.5  
 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	2.8	3.1	3.5	3.9
85°	0.0	0.8	1.6	2.4	3.2	4.0	4.8	5.5	6.3	7.0	7.8
82.5°	0.0	1.2	2.4	3.6	4.8	6.0	7.1	8.3	9.2	9.4	9.6
80°	0.0	1.6	3.2	4.8	6.4	7.9	9.2	9.5	9.8	10.0	10.3
77.5°	0.0	2.0	4.0	6.0	7.9	9.3	9.7	10.0	10.3	10.6	11.5
75°	0.0	2.4	4.8	7.1	9.2	9.7	10.1	10.5	11.0	12.6	14.2
72.5°	0.0	2.8	5.5	8.3	9.5	10.0	10.5	11.3	13.2	15.1	17.0
70°	0.0	3.1	6.3	9.2	9.8	10.3	11.0	13.2	15.4	17.7	23.5
67.5°	0.0	3.5	7.0	9.4	10.0	10.6	12.6	15.1	17.7	24.3	30.8
65°	0.0	3.9	7.8	9.6	10.3	11.5	14.2	17.0	23.5	30.8	40.2
62.5°	0.0	4.2	8.5	9.8	10.5	12.8	15.8	21.0	29.2	38.6	54.7
60°	0.0	4.6	9.2	10.0	10.8	14.1	17.3	25.9	34.8	51.4	68.9
57.5°	0.0	4.9	9.3	10.2	11.7	15.3	21.1	30.7	44.7	63.9	94.2
55°	0.0	5.3	9.4	10.3	12.7	16.5	25.1	35.4	55.6	79.4	124.4
52.5°	0.0	5.6	9.5	10.5	13.7	18.0	29.0	44.1	66.2	105.8	153.7
50°	0.0	5.9	9.7	10.7	14.6	21.2	32.8	53.1	80.1	131.4	198.3
47.5°	0.0	6.2	9.8	11.0	15.5	24.2	37.0	61.7	102.1	156.2	243.2
45°	0.0	6.5	9.9	11.6	16.3	27.1	44.1	70.0	123.3	194.8	286.6
42.5°	0.0	6.8	10.0	12.2	17.1	29.9	50.9	83.7	143.6	232.3	346.2
40°	0.0	7.0	10.1	12.8	18.6	32.5	57.4	100.7	167.1	268.1	406.2
37.5°	0.0	7.3	10.1	13.3	20.6	35.1	63.6	116.8	197.3	306.9	463.4
35°	0.0	7.5	10.2	13.8	22.5	39.1	69.5	132.1	225.8	355.5	527.6
32.5°	0.0	7.8	10.3	14.3	24.3	43.7	77.0	146.5	252.8	401.3	603.3
30°	0.0	8.0	10.4	14.8	26.0	48.0	88.5	162.0	278.0	444.2	674.3
27.5°	0.0	8.2	10.4	15.2	27.5	51.9	99.2	182.3	305.8	484.1	740.4
25°	0.0	8.3	10.5	15.6	28.9	55.6	109.0	201.1	338.3	532.3	802.0
22.5°	0.0	8.5	10.6	16.0	30.2	58.9	117.9	218.2	367.9	582.0	871.4
20°	0.0	8.6	10.6	16.3	31.4	61.9	126.0	233.6	394.6	626.8	934.0
17.5°	0.0	8.8	10.7	16.6	32.5	64.6	133.1	247.4	418.3	666.7	989.7
15°	0.0	8.9	10.7	16.8	33.4	66.9	139.4	259.3	439.0	701.4	1038.4
12.5°	0.0	9.0	10.7	17.0	34.1	68.9	144.7	269.4	456.6	731.0	1079.8
10°	0.0	9.1	10.8	17.2	34.8	70.5	149.0	277.8	471.0	755.3	1113.9
7.5°	0.0	9.1	10.8	17.3	35.3	71.8	152.4	284.3	482.3	774.3	1140.5
5°	0.0	9.2	10.8	17.4	35.6	72.7	154.9	289.0	490.4	787.9	1159.5
2.5°	0.0	9.2	10.8	17.5	35.8	73.2	156.3	291.8	495.3	796.1	1171.0
0°	0.0	9.2	10.8	17.5	35.9	73.4	156.8	292.7	496.9	798.8	1174.8
-2.5°	0.0	9.2	10.8	17.5	35.8	73.2	156.3	291.8	495.3	796.1	1171.0
-5°	0.0	9.2	10.8	17.4	35.6	72.7	154.9	289.0	490.4	787.9	1159.5
-7.5°	0.0	9.1	10.8	17.3	35.3	71.8	152.4	284.3	482.3	774.3	1140.5
-10°	0.0	9.1	10.8	17.2	34.8	70.5	149.0	277.8	471.0	755.3	1113.9
-12.5°	0.0	9.0	10.7	17.0	34.1	68.9	144.7	269.4	456.6	731.0	1079.8
-15°	0.0	8.9	10.7	16.8	33.4	66.9	139.4	259.3	439.0	701.4	1038.4
-17.5°	0.0	8.8	10.7	16.6	32.5	64.6	133.1	247.4	418.3	666.7	989.7
-20°	0.0	8.6	10.6	16.3	31.4	61.9	126.0	233.6	394.6	626.8	934.0



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 CATALOG NUMBER: EPH-LS12-1000R-57-90-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	8.5	10.6	16.0	30.2	58.9	117.9	218.2	367.9	582.0	871.4
-25°	0.0	8.3	10.5	15.6	28.9	55.6	109.0	201.1	338.3	532.3	802.0
-27.5°	0.0	8.2	10.4	15.2	27.5	51.9	99.2	182.3	305.8	484.1	740.4
-30°	0.0	8.0	10.4	14.8	26.0	48.0	88.5	162.0	278.0	444.2	674.3
-32.5°	0.0	7.8	10.3	14.3	24.3	43.7	77.0	146.5	252.8	401.3	603.3
-35°	0.0	7.5	10.2	13.8	22.5	39.1	69.5	132.1	225.8	355.5	527.6
-37.5°	0.0	7.3	10.1	13.3	20.6	35.1	63.6	116.8	197.3	306.9	463.4
-40°	0.0	7.0	10.1	12.8	18.6	32.5	57.4	100.7	167.1	268.1	406.2
-42.5°	0.0	6.8	10.0	12.2	17.1	29.9	50.9	83.7	143.6	232.3	346.2
-45°	0.0	6.5	9.9	11.6	16.3	27.1	44.1	70.0	123.3	194.8	286.6
-47.5°	0.0	6.2	9.8	11.0	15.5	24.2	37.0	61.7	102.1	156.2	243.2
-50°	0.0	5.9	9.7	10.7	14.6	21.2	32.8	53.1	80.1	131.4	198.3
-52.5°	0.0	5.6	9.5	10.5	13.7	18.0	29.0	44.1	66.2	105.8	153.7
-55°	0.0	5.3	9.4	10.3	12.7	16.5	25.1	35.4	55.6	79.4	124.4
-57.5°	0.0	4.9	9.3	10.2	11.7	15.3	21.1	30.7	44.7	63.9	94.2
-60°	0.0	4.6	9.2	10.0	10.8	14.1	17.3	25.9	34.8	51.4	68.9
-62.5°	0.0	4.2	8.5	9.8	10.5	12.8	15.8	21.0	29.2	38.6	54.7
-65°	0.0	3.9	7.8	9.6	10.3	11.5	14.2	17.0	23.5	30.8	40.2
-67.5°	0.0	3.5	7.0	9.4	10.0	10.6	12.6	15.1	17.7	24.3	30.8
-70°	0.0	3.1	6.3	9.2	9.8	10.3	11.0	13.2	15.4	17.7	23.5
-72.5°	0.0	2.8	5.5	8.3	9.5	10.0	10.5	11.3	13.2	15.1	17.0
-75°	0.0	2.4	4.8	7.1	9.2	9.7	10.1	10.5	11.0	12.6	14.2
-77.5°	0.0	2.0	4.0	6.0	7.9	9.3	9.7	10.0	10.3	10.6	11.5
-80°	0.0	1.6	3.2	4.8	6.4	7.9	9.2	9.5	9.8	10.0	10.3
-82.5°	0.0	1.2	2.4	3.6	4.8	6.0	7.1	8.3	9.2	9.4	9.6
-85°	0.0	0.8	1.6	2.4	3.2	4.0	4.8	5.5	6.3	7.0	7.8
-87.5°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.1	3.5	3.9
-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	4.6	4.9	5.3	5.6	5.9	6.2	6.5	6.8	7.0	7.3
85°	8.5	9.2	9.3	9.4	9.5	9.7	9.8	9.9	10.0	10.1	10.1
82.5°	9.8	10.0	10.2	10.3	10.5	10.7	11.0	11.6	12.2	12.8	13.3
80°	10.5	10.8	11.7	12.7	13.7	14.6	15.5	16.3	17.1	18.6	20.6
77.5°	12.8	14.1	15.3	16.5	18.0	21.2	24.2	27.1	29.9	32.5	35.1
75°	15.8	17.3	21.1	25.1	29.0	32.8	37.0	44.1	50.9	57.4	63.6
72.5°	21.0	25.9	30.7	35.4	44.1	53.1	61.7	70.0	83.7	100.7	116.8
70°	29.2	34.8	44.7	55.6	66.2	80.1	102.1	123.3	143.6	167.1	197.3
67.5°	38.6	51.4	63.9	79.4	105.8	131.4	156.2	194.8	232.3	268.1	306.9
65°	54.7	68.9	94.2	124.4	153.7	198.3	243.2	286.6	346.2	406.2	463.4
62.5°	70.6	101.7	135.6	176.3	228.9	280.0	348.0	419.9	489.0	583.2	676.8
60°	101.7	139.4	188.5	247.4	310.7	394.6	475.9	582.0	693.9	802.0	929.7
57.5°	135.6	188.5	253.5	329.4	422.7	521.6	652.0	778.2	924.7	1070.3	1213.0
55°	176.3	247.4	329.4	432.2	549.6	694.3	843.8	1013.5	1177.6	1350.9	1516.9
52.5°	228.9	310.7	422.7	549.6	708.5	879.4	1067.2	1257.0	1450.8	1641.5	1834.9
50°	280.0	394.6	521.6	694.3	879.4	1085.2	1296.9	1511.3	1729.4	1945.7	2168.0
47.5°	348.0	475.9	652.0	843.8	1067.2	1296.9	1531.6	1773.6	2012.8	2269.6	2519.2
45°	419.9	582.0	778.2	1013.5	1257.0	1511.3	1773.6	2035.3	2320.7	2571.0	2721.4
42.5°	489.0	693.9	924.7	1177.6	1450.8	1729.4	2012.8	2320.7	2585.7	2751.2	2906.9
40°	583.2	802.0	1070.3	1350.9	1641.5	1945.7	2269.6	2571.0	2751.2	2921.4	3082.9
37.5°	676.8	929.7	1213.0	1516.9	1834.9	2168.0	2519.2	2721.4	2906.9	3082.9	3453.6
35°	765.6	1051.2	1358.8	1682.1	2019.6	2391.1	2662.1	2863.5	3053.3	3419.8	4045.0
32.5°	861.9	1166.0	1496.8	1844.1	2214.4	2574.4	2790.7	2994.7	3319.2	3855.8	5015.0
30°	959.9	1283.8	1629.6	1996.7	2400.0	2687.6	2908.1	3153.7	3615.8	4725.5	7231.2
27.5°	1051.2	1394.5	1760.5	2152.1	2557.9	2793.6	3017.0	3414.6	4249.8	5984.3	10016.0
25°	1135.6	1496.8	1881.7	2300.6	2649.0	2888.9	3152.3	3658.1	4968.7	8429.2	13229.4
22.5°	1216.5	1590.6	1992.8	2436.8	2732.6	2975.3	3360.7	4215.2	6257.4	10729.0	16375.8
20°	1293.2	1682.1	2100.4	2550.2	2808.6	3053.9	3550.4	4778.7	8185.9	13413.5	19296.2
17.5°	1361.4	1763.7	2201.1	2612.4	2873.8	3165.3	3768.8	5284.8	9921.4	15835.3	21951.8
15°	1421.0	1834.9	2289.2	2666.9	2930.5	3302.9	4179.6	6562.7	11703.6	17986.4	24300.9
12.5°	1471.8	1895.7	2364.3	2713.5	2979.0	3420.6	4531.5	7775.1	13403.4	19859.5	26166.0
10°	1513.6	1945.7	2426.2	2751.8	3019.0	3517.8	4822.5	8779.1	14813.1	21415.9	27719.2
7.5°	1546.2	1984.8	2474.6	2781.9	3050.3	3594.1	5050.9	9567.6	15921.8	22641.9	28944.9
5°	1569.6	2012.8	2509.3	2803.4	3072.7	3648.8	5215.0	10135.0	16720.4	23526.1	29830.3
2.5°	1583.7	2029.7	2530.2	2816.4	3086.3	3681.8	5313.9	10477.2	17202.4	24060.2	30365.6
0°	1588.4	2035.3	2537.2	2820.7	3090.8	3692.8	5347.0	10591.5	17363.5	24238.8	30544.7
-2.5°	1583.7	2029.7	2530.2	2816.4	3086.3	3681.8	5313.9	10477.2	17202.4	24060.2	30365.6
-5°	1569.6	2012.8	2509.3	2803.4	3072.7	3648.8	5215.0	10135.0	16720.4	23526.1	29830.3
-7.5°	1546.2	1984.8	2474.6	2781.9	3050.3	3594.1	5050.9	9567.6	15921.8	22641.9	28944.9
-10°	1513.6	1945.7	2426.2	2751.8	3019.0	3517.8	4822.5	8779.1	14813.1	21415.9	27719.2
-12.5°	1471.8	1895.7	2364.3	2713.5	2979.0	3420.6	4531.5	7775.1	13403.4	19859.5	26166.0
-15°	1421.0	1834.9	2289.2	2666.9	2930.5	3302.9	4179.6	6562.7	11703.6	17986.4	24300.9
-17.5°	1361.4	1763.7	2201.1	2612.4	2873.8	3165.3	3768.8	5284.8	9921.4	15835.3	21951.8
-20°	1293.2	1682.1	2100.4	2550.2	2808.6	3053.9	3550.4	4778.7	8185.9	13413.5	19296.2



REPORT NUMBER: P1212226 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-1000R-57-90-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1216.5	1590.6	1992.8	2436.8	2732.6	2975.3	3360.7	4215.2	6257.4	10729.0	16375.8
-25°	1135.6	1496.8	1881.7	2300.6	2649.0	2888.9	3152.3	3658.1	4968.7	8429.2	13229.4
-27.5°	1051.2	1394.5	1760.5	2152.1	2557.9	2793.6	3017.0	3414.6	4249.8	5984.3	10016.0
-30°	959.9	1283.8	1629.6	1996.7	2400.0	2687.6	2908.1	3153.7	3615.8	4725.5	7231.2
-32.5°	861.9	1166.0	1496.8	1844.1	2214.4	2574.4	2790.7	2994.7	3319.2	3855.8	5015.0
-35°	765.6	1051.2	1358.8	1682.1	2019.6	2391.1	2662.1	2863.5	3053.3	3419.8	4045.0
-37.5°	676.8	929.7	1213.0	1516.9	1834.9	2168.0	2519.2	2721.4	2906.9	3082.9	3453.6
-40°	583.2	802.0	1070.3	1350.9	1641.5	1945.7	2269.6	2571.0	2751.2	2921.4	3082.9
-42.5°	489.0	693.9	924.7	1177.6	1450.8	1729.4	2012.8	2320.7	2585.7	2751.2	2906.9
-45°	419.9	582.0	778.2	1013.5	1257.0	1511.3	1773.6	2035.3	2320.7	2571.0	2721.4
-47.5°	348.0	475.9	652.0	843.8	1067.2	1296.9	1531.6	1773.6	2012.8	2269.6	2519.2
-50°	280.0	394.6	521.6	694.3	879.4	1085.2	1296.9	1511.3	1729.4	1945.7	2168.0
-52.5°	228.9	310.7	422.7	549.6	708.5	879.4	1067.2	1257.0	1450.8	1641.5	1834.9
-55°	176.3	247.4	329.4	432.2	549.6	694.3	843.8	1013.5	1177.6	1350.9	1516.9
-57.5°	135.6	188.5	253.5	329.4	422.7	521.6	652.0	778.2	924.7	1070.3	1213.0
-60°	101.7	139.4	188.5	247.4	310.7	394.6	475.9	582.0	693.9	802.0	929.7
-62.5°	70.6	101.7	135.6	176.3	228.9	280.0	348.0	419.9	489.0	583.2	676.8
-65°	54.7	68.9	94.2	124.4	153.7	198.3	243.2	286.6	346.2	406.2	463.4
-67.5°	38.6	51.4	63.9	79.4	105.8	131.4	156.2	194.8	232.3	268.1	306.9
-70°	29.2	34.8	44.7	55.6	66.2	80.1	102.1	123.3	143.6	167.1	197.3
-72.5°	21.0	25.9	30.7	35.4	44.1	53.1	61.7	70.0	83.7	100.7	116.8
-75°	15.8	17.3	21.1	25.1	29.0	32.8	37.0	44.1	50.9	57.4	63.6
-77.5°	12.8	14.1	15.3	16.5	18.0	21.2	24.2	27.1	29.9	32.5	35.1
-80°	10.5	10.8	11.7	12.7	13.7	14.6	15.5	16.3	17.1	18.6	20.6
-82.5°	9.8	10.0	10.2	10.3	10.5	10.7	11.0	11.6	12.2	12.8	13.3
-85°	8.5	9.2	9.3	9.4	9.5	9.7	9.8	9.9	10.0	10.1	10.1
-87.5°	4.2	4.6	4.9	5.3	5.6	5.9	6.2	6.5	6.8	7.0	7.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	7.8	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.0	9.1
85°	10.2	10.3	10.4	10.4	10.5	10.6	10.6	10.7	10.7	10.7	10.8
82.5°	13.8	14.3	14.8	15.2	15.6	16.0	16.3	16.6	16.8	17.0	17.2
80°	22.5	24.3	26.0	27.5	28.9	30.2	31.4	32.5	33.4	34.1	34.8
77.5°	39.1	43.7	48.0	51.9	55.6	58.9	61.9	64.6	66.9	68.9	70.5
75°	69.5	77.0	88.5	99.2	109.0	117.9	126.0	133.1	139.4	144.7	149.0
72.5°	132.1	146.5	162.0	182.3	201.1	218.2	233.6	247.4	259.3	269.4	277.8
70°	225.8	252.8	278.0	305.8	338.3	367.9	394.6	418.3	439.0	456.6	471.0
67.5°	355.5	401.3	444.2	484.1	532.3	582.0	626.8	666.7	701.4	731.0	755.3
65°	527.6	603.3	674.3	740.4	802.0	871.4	934.0	989.7	1038.4	1079.8	1113.9
62.5°	765.6	861.9	959.9	1051.2	1135.6	1216.5	1293.2	1361.4	1421.0	1471.8	1513.6
60°	1051.2	1166.0	1283.8	1394.5	1496.8	1590.6	1682.1	1763.7	1834.9	1895.7	1945.7
57.5°	1358.8	1496.8	1629.6	1760.5	1881.7	1992.8	2100.4	2201.1	2289.2	2364.3	2426.2
55°	1682.1	1844.1	1996.7	2152.1	2300.6	2436.8	2550.2	2612.4	2666.9	2713.5	2751.8
52.5°	2019.6	2214.4	2400.0	2557.9	2649.0	2732.6	2808.6	2873.8	2930.5	2979.0	3019.0
50°	2391.1	2574.4	2687.6	2793.6	2888.9	2975.3	3053.9	3165.3	3302.9	3420.6	3517.8
47.5°	2662.1	2790.7	2908.1	3017.0	3152.3	3360.7	3550.4	3768.8	4179.6	4531.5	4822.5
45°	2863.5	2994.7	3153.7	3414.6	3658.1	4215.2	4778.7	5284.8	6562.7	7775.1	8779.1
42.5°	3053.3	3319.2	3615.8	4249.8	4968.7	6257.4	8185.9	9921.4	11703.6	13403.4	14813.1
40°	3419.8	3855.8	4725.5	5984.3	8429.2	10729.0	13413.5	15835.3	17986.4	19859.5	21415.9
37.5°	4045.0	5015.0	7231.2	10016.0	13229.4	16375.8	19296.2	21951.8	24300.9	26166.0	27719.2
35°	5112.2	7861.6	11097.1	14930.6	18564.2	21991.1	25075.1	27705.0	30044.1	32248.5	34137.9
32.5°	7861.6	11516.6	15791.9	19909.6	23829.5	27232.0	30349.1	33497.6	36328.7	39373.2	42435.7
30°	11097.1	15791.9	20362.2	24718.5	28552.3	32347.6	36090.7	40451.7	45013.7	49248.1	53493.9
27.5°	14930.6	19909.6	24718.5	28996.9	33374.9	37729.5	43706.5	49510.4	55790.5	61299.2	66189.9
25°	18564.2	23829.5	28552.3	33374.9	38527.6	45365.5	52785.8	60314.2	67436.2	73766.8	79170.9
22.5°	21991.1	27232.0	32347.6	37729.5	45365.5	53893.3	62695.5	71243.3	79071.2	86052.6	92348.3
20°	25075.1	30349.1	36090.7	43706.5	52785.8	62695.5	72534.4	81804.7	90478.0	99049.8	106655.0
17.5°	27705.0	33497.6	40451.7	49510.4	60314.2	71243.3	81804.7	92116.4	102524.2	112922.3	122308.1
15°	30044.1	36328.7	45013.7	55790.5	67436.2	79071.2	90478.0	102524.2	115072.0	127483.7	139463.9
12.5°	32248.5	39373.2	49248.1	61299.2	73766.8	86052.6	99049.8	112922.3	127483.7	142373.7	154538.3
10°	34137.9	42435.7	53493.9	66189.9	79170.9	92348.3	106655.0	122308.1	139463.9	154538.3	166829.6
7.5°	35632.3	44864.8	56873.0	70099.6	83520.7	97751.6	113533.3	131072.5	148870.3	164229.2	174181.1
5°	36713.8	46626.5	59330.3	72952.7	86709.0	101735.0	118643.4	137711.9	155744.4	170065.4	178643.2
2.5°	37368.4	47694.5	60823.0	74690.1	88656.7	104178.9	121796.7	141842.4	160072.5	173163.3	181063.1
0°	37587.6	48052.4	61323.7	75273.6	89312.0	105002.9	122863.3	143245.8	161553.1	174093.6	181888.2
-2.5°	37368.4	47694.5	60823.0	74690.1	88656.7	104178.9	121796.7	141842.4	160072.5	173163.3	181063.1
-5°	36713.8	46626.5	59330.3	72952.7	86709.0	101735.0	118643.4	137711.9	155744.4	170065.4	178643.2
-7.5°	35632.3	44864.8	56873.0	70099.6	83520.7	97751.6	113533.3	131072.5	148870.3	164229.2	174181.1
-10°	34137.9	42435.7	53493.9	66189.9	79170.9	92348.3	106655.0	122308.1	139463.9	154538.3	166829.6
-12.5°	32248.5	39373.2	49248.1	61299.2	73766.8	86052.6	99049.8	112922.3	127483.7	142373.7	154538.3
-15°	30044.1	36328.7	45013.7	55790.5	67436.2	79071.2	90478.0	102524.2	115072.0	127483.7	139463.9
-17.5°	27705.0	33497.6	40451.7	49510.4	60314.2	71243.3	81804.7	92116.4	102524.2	112922.3	122308.1
-20°	25075.1	30349.1	36090.7	43706.5	52785.8	62695.5	72534.4	81804.7	90478.0	99049.8	106655.0



REPORT NUMBER: P1212226 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	21991.1	27232.0	32347.6	37729.5	45365.5	53893.3	62695.5	71243.3	79071.2	86052.6	92348.3
-25°	18564.2	23829.5	28552.3	33374.9	38527.6	45365.5	52785.8	60314.2	67436.2	73766.8	79170.9
-27.5°	14930.6	19909.6	24718.5	28996.9	33374.9	37729.5	43706.5	49510.4	55790.5	61299.2	66189.9
-30°	11097.1	15791.9	20362.2	24718.5	28552.3	32347.6	36090.7	40451.7	45013.7	49248.1	53493.9
-32.5°	7861.6	11516.6	15791.9	19909.6	23829.5	27232.0	30349.1	33497.6	36328.7	39373.2	42435.7
-35°	5112.2	7861.6	11097.1	14930.6	18564.2	21991.1	25075.1	27705.0	30044.1	32248.5	34137.9
-37.5°	4045.0	5015.0	7231.2	10016.0	13229.4	16375.8	19296.2	21951.8	24300.9	26166.0	27719.2
-40°	3419.8	3855.8	4725.5	5984.3	8429.2	10729.0	13413.5	15835.3	17986.4	19859.5	21415.9
-42.5°	3053.3	3319.2	3615.8	4249.8	4968.7	6257.4	8185.9	9921.4	11703.6	13403.4	14813.1
-45°	2863.5	2994.7	3153.7	3414.6	3658.1	4215.2	4778.7	5284.8	6562.7	7775.1	8779.1
-47.5°	2662.1	2790.7	2908.1	3017.0	3152.3	3360.7	3550.4	3768.8	4179.6	4531.5	4822.5
-50°	2391.1	2574.4	2687.6	2793.6	2888.9	2975.3	3053.9	3165.3	3302.9	3420.6	3517.8
-52.5°	2019.6	2214.4	2400.0	2557.9	2649.0	2732.6	2808.6	2873.8	2930.5	2979.0	3019.0
-55°	1682.1	1844.1	1996.7	2152.1	2300.6	2436.8	2550.2	2612.4	2666.9	2713.5	2751.8
-57.5°	1358.8	1496.8	1629.6	1760.5	1881.7	1992.8	2100.4	2201.1	2289.2	2364.3	2426.2
-60°	1051.2	1166.0	1283.8	1394.5	1496.8	1590.6	1682.1	1763.7	1834.9	1895.7	1945.7
-62.5°	765.6	861.9	959.9	1051.2	1135.6	1216.5	1293.2	1361.4	1421.0	1471.8	1513.6
-65°	527.6	603.3	674.3	740.4	802.0	871.4	934.0	989.7	1038.4	1079.8	1113.9
-67.5°	355.5	401.3	444.2	484.1	532.3	582.0	626.8	666.7	701.4	731.0	755.3
-70°	225.8	252.8	278.0	305.8	338.3	367.9	394.6	418.3	439.0	456.6	471.0
-72.5°	132.1	146.5	162.0	182.3	201.1	218.2	233.6	247.4	259.3	269.4	277.8
-75°	69.5	77.0	88.5	99.2	109.0	117.9	126.0	133.1	139.4	144.7	149.0
-77.5°	39.1	43.7	48.0	51.9	55.6	58.9	61.9	64.6	66.9	68.9	70.5
-80°	22.5	24.3	26.0	27.5	28.9	30.2	31.4	32.5	33.4	34.1	34.8
-82.5°	13.8	14.3	14.8	15.2	15.6	16.0	16.3	16.6	16.8	17.0	17.2
-85°	10.2	10.3	10.4	10.4	10.5	10.6	10.6	10.7	10.7	10.7	10.8
-87.5°	7.5	7.8	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.0	9.1
-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: P1212226 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-5S-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°	9.1	9.2	9.2	9.2	9.2	9.2	9.1	9.1	9.0	8.9	8.8
85°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.7	10.7	10.7
82.5°	17.3	17.4	17.5	17.5	17.5	17.4	17.3	17.2	17.0	16.8	16.6
80°	35.3	35.6	35.8	35.9	35.8	35.6	35.3	34.8	34.1	33.4	32.5
77.5°	71.8	72.7	73.2	73.4	73.2	72.7	71.8	70.5	68.9	66.9	64.6
75°	152.4	154.9	156.3	156.8	156.3	154.9	152.4	149.0	144.7	139.4	133.1
72.5°	284.3	289.0	291.8	292.7	291.8	289.0	284.3	277.8	269.4	259.3	247.4
70°	482.3	490.4	495.3	496.9	495.3	490.4	482.3	471.0	456.6	439.0	418.3
67.5°	774.3	787.9	796.1	798.8	796.1	787.9	774.3	755.3	731.0	701.4	666.7
65°	1140.5	1159.5	1171.0	1174.8	1171.0	1159.5	1140.5	1113.9	1079.8	1038.4	989.7
62.5°	1546.2	1569.6	1583.7	1588.4	1583.7	1569.6	1546.2	1513.6	1471.8	1421.0	1361.4
60°	1984.8	2012.8	2029.7	2035.3	2029.7	2012.8	1984.8	1945.7	1895.7	1834.9	1763.7
57.5°	2474.6	2509.3	2530.2	2537.2	2530.2	2509.3	2474.6	2426.2	2364.3	2289.2	2201.1
55°	2781.9	2803.4	2816.4	2820.7	2816.4	2803.4	2781.9	2751.8	2713.5	2666.9	2612.4
52.5°	3050.3	3072.7	3086.3	3090.8	3086.3	3072.7	3050.3	3019.0	2979.0	2930.5	2873.8
50°	3594.1	3648.8	3681.8	3692.8	3681.8	3648.8	3594.1	3517.8	3420.6	3302.9	3165.3
47.5°	5050.9	5215.0	5313.9	5347.0	5313.9	5215.0	5050.9	4822.5	4531.5	4179.6	3768.8
45°	9567.6	10135.0	10477.2	10591.5	10477.2	10135.0	9567.6	8779.1	7775.1	6562.7	5284.8
42.5°	15921.8	16720.4	17202.4	17363.5	17202.4	16720.4	15921.8	14813.1	13403.4	11703.6	9921.4
40°	22641.9	23526.1	24060.2	24238.8	24060.2	23526.1	22641.9	21415.9	19859.5	17986.4	15835.3
37.5°	28944.9	29830.3	30365.6	30544.7	30365.6	29830.3	28944.9	27719.2	26166.0	24300.9	21951.8
35°	35632.3	36713.8	37368.4	37587.6	37368.4	36713.8	35632.3	34137.9	32248.5	30044.1	27705.0
32.5°	44864.8	46626.5	47694.5	48052.4	47694.5	46626.5	44864.8	42435.7	39373.2	36328.7	33497.6
30°	56873.0	59330.3	60823.0	61323.7	60823.0	59330.3	56873.0	53493.9	49248.1	45013.7	40451.7
27.5°	70099.6	72952.7	74690.1	75273.6	74690.1	72952.7	70099.6	66189.9	61299.2	55790.5	49510.4
25°	83520.7	86709.0	88656.7	89312.0	88656.7	86709.0	83520.7	79170.9	73766.8	67436.2	60314.2
22.5°	97751.6	101735.0	104178.9	105002.9	104178.9	101735.0	97751.6	92348.3	86052.6	79071.2	71243.3
20°	113533.3	118643.4	121796.7	122863.3	121796.7	118643.4	113533.3	106655.0	99049.8	90478.0	81804.7
17.5°	131072.5	137711.9	141842.4	143245.8	141842.4	137711.9	131072.5	122308.1	112922.3	102524.2	92116.4
15°	148870.3	155744.4	160072.5	161553.1	160072.5	155744.4	148870.3	139463.9	127483.7	115072.0	102524.2
12.5°	164229.2	170065.4	173163.3	174093.6	173163.3	170065.4	164229.2	154538.3	142373.7	127483.7	112922.3
10°	174181.1	178643.2	181063.1	181888.2	181063.1	178643.2	174181.1	166829.6	154538.3	139463.9	122308.1
7.5°	180286.6	184324.9	186530.8	187262.8	186530.8	184324.9	180286.6	174181.1	164229.2	148870.3	131072.5
5°	184324.9	188049.1	189977.4	190602.8	189977.4	188049.1	184324.9	178643.2	170065.4	155744.4	137711.9
2.5°	186530.8	189977.4	191371.3	191407.9	191371.3	189977.4	186530.8	181063.1	173163.3	160072.5	141842.4
0°	187262.8	190602.8	191407.9	191175.6	191407.9	190602.8	187262.8	181888.2	174093.6	161553.1	143245.8
-2.5°	186530.8	189977.4	191371.3	191407.9	191371.3	189977.4	186530.8	181063.1	173163.3	160072.5	141842.4
-5°	184324.9	188049.1	189977.4	190602.8	189977.4	188049.1	184324.9	178643.2	170065.4	155744.4	137711.9
-7.5°	180286.6	184324.9	186530.8	187262.8	186530.8	184324.9	180286.6	174181.1	164229.2	148870.3	131072.5
-10°	174181.1	178643.2	181063.1	181888.2	181063.1	178643.2	174181.1	166829.6	154538.3	139463.9	122308.1
-12.5°	164229.2	170065.4	173163.3	174093.6	173163.3	170065.4	164229.2	154538.3	142373.7	127483.7	112922.3
-15°	148870.3	155744.4	160072.5	161553.1	160072.5	155744.4	148870.3	139463.9	127483.7	115072.0	102524.2
-17.5°	131072.5	137711.9	141842.4	143245.8	141842.4	137711.9	131072.5	122308.1	112922.3	102524.2	92116.4
-20°	113533.3	118643.4	121796.7	122863.3	121796.7	118643.4	113533.3	106655.0	99049.8	90478.0	81804.7



REPORT NUMBER: P1212226 (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°	97751.6	101735.0	104178.9	105002.9	104178.9	101735.0	97751.6	92348.3	86052.6	79071.2	71243.3
-25°	83520.7	86709.0	88656.7	89312.0	88656.7	86709.0	83520.7	79170.9	73766.8	67436.2	60314.2
-27.5°	70099.6	72952.7	74690.1	75273.6	74690.1	72952.7	70099.6	66189.9	61299.2	55790.5	49510.4
-30°	56873.0	59330.3	60823.0	61323.7	60823.0	59330.3	56873.0	53493.9	49248.1	45013.7	40451.7
-32.5°	44864.8	46626.5	47694.5	48052.4	47694.5	46626.5	44864.8	42435.7	39373.2	36328.7	33497.6
-35°	35632.3	36713.8	37368.4	37587.6	37368.4	36713.8	35632.3	34137.9	32248.5	30044.1	27705.0
-37.5°	28944.9	29830.3	30365.6	30544.7	30365.6	29830.3	28944.9	27719.2	26166.0	24300.9	21951.8
-40°	22641.9	23526.1	24060.2	24238.8	24060.2	23526.1	22641.9	21415.9	19859.5	17986.4	15835.3
-42.5°	15921.8	16720.4	17202.4	17363.5	17202.4	16720.4	15921.8	14813.1	13403.4	11703.6	9921.4
-45°	9567.6	10135.0	10477.2	10591.5	10477.2	10135.0	9567.6	8779.1	7775.1	6562.7	5284.8
-47.5°	5050.9	5215.0	5313.9	5347.0	5313.9	5215.0	5050.9	4822.5	4531.5	4179.6	3768.8
-50°	3594.1	3648.8	3681.8	3692.8	3681.8	3648.8	3594.1	3517.8	3420.6	3302.9	3165.3
-52.5°	3050.3	3072.7	3086.3	3090.8	3086.3	3072.7	3050.3	3019.0	2979.0	2930.5	2873.8
-55°	2781.9	2803.4	2816.4	2820.7	2816.4	2803.4	2781.9	2751.8	2713.5	2666.9	2612.4
-57.5°	2474.6	2509.3	2530.2	2537.2	2530.2	2509.3	2474.6	2426.2	2364.3	2289.2	2201.1
-60°	1984.8	2012.8	2029.7	2035.3	2029.7	2012.8	1984.8	1945.7	1895.7	1834.9	1763.7
-62.5°	1546.2	1569.6	1583.7	1588.4	1583.7	1569.6	1546.2	1513.6	1471.8	1421.0	1361.4
-65°	1140.5	1159.5	1171.0	1174.8	1171.0	1159.5	1140.5	1113.9	1079.8	1038.4	989.7
-67.5°	774.3	787.9	796.1	798.8	796.1	787.9	774.3	755.3	731.0	701.4	666.7
-70°	482.3	490.4	495.3	496.9	495.3	490.4	482.3	471.0	456.6	439.0	418.3
-72.5°	284.3	289.0	291.8	292.7	291.8	289.0	284.3	277.8	269.4	259.3	247.4
-75°	152.4	154.9	156.3	156.8	156.3	154.9	152.4	149.0	144.7	139.4	133.1
-77.5°	71.8	72.7	73.2	73.4	73.2	72.7	71.8	70.5	68.9	66.9	64.6
-80°	35.3	35.6	35.8	35.9	35.8	35.6	35.3	34.8	34.1	33.4	32.5
-82.5°	17.3	17.4	17.5	17.5	17.5	17.4	17.3	17.2	17.0	16.8	16.6
-85°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.7	10.7	10.7
-87.5°	9.1	9.2	9.2	9.2	9.2	9.2	9.1	9.1	9.0	8.9	8.8
-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°	8.6	8.5	8.3	8.2	8.0	7.8	7.5	7.3	7.0	6.8	6.5
85°	10.6	10.6	10.5	10.4	10.4	10.3	10.2	10.1	10.1	10.0	9.9
82.5°	16.3	16.0	15.6	15.2	14.8	14.3	13.8	13.3	12.8	12.2	11.6
80°	31.4	30.2	28.9	27.5	26.0	24.3	22.5	20.6	18.6	17.1	16.3
77.5°	61.9	58.9	55.6	51.9	48.0	43.7	39.1	35.1	32.5	29.9	27.1
75°	126.0	117.9	109.0	99.2	88.5	77.0	69.5	63.6	57.4	50.9	44.1
72.5°	233.6	218.2	201.1	182.3	162.0	146.5	132.1	116.8	100.7	83.7	70.0
70°	394.6	367.9	338.3	305.8	278.0	252.8	225.8	197.3	167.1	143.6	123.3
67.5°	626.8	582.0	532.3	484.1	444.2	401.3	355.5	306.9	268.1	232.3	194.8
65°	934.0	871.4	802.0	740.4	674.3	603.3	527.6	463.4	406.2	346.2	286.6
62.5°	1293.2	1216.5	1135.6	1051.2	959.9	861.9	765.6	676.8	583.2	489.0	419.9
60°	1682.1	1590.6	1496.8	1394.5	1283.8	1166.0	1051.2	929.7	802.0	693.9	582.0
57.5°	2100.4	1992.8	1881.7	1760.5	1629.6	1496.8	1358.8	1213.0	1070.3	924.7	778.2
55°	2550.2	2436.8	2300.6	2152.1	1996.7	1844.1	1682.1	1516.9	1350.9	1177.6	1013.5
52.5°	2808.6	2732.6	2649.0	2557.9	2400.0	2214.4	2019.6	1834.9	1641.5	1450.8	1257.0
50°	3053.9	2975.3	2888.9	2793.6	2687.6	2574.4	2391.1	2168.0	1945.7	1729.4	1511.3
47.5°	3550.4	3360.7	3152.3	3017.0	2908.1	2790.7	2662.1	2519.2	2269.6	2012.8	1773.6
45°	4778.7	4215.2	3658.1	3414.6	3153.7	2994.7	2863.5	2721.4	2571.0	2320.7	2035.3
42.5°	8185.9	6257.4	4968.7	4249.8	3615.8	3319.2	3053.3	2906.9	2751.2	2585.7	2320.7
40°	13413.5	10729.0	8429.2	5984.3	4725.5	3855.8	3419.8	3082.9	2921.4	2751.2	2571.0
37.5°	19296.2	16375.8	13229.4	10016.0	7231.2	5015.0	4045.0	3453.6	3082.9	2906.9	2721.4
35°	25075.1	21991.1	18564.2	14930.6	11097.1	7861.6	5112.2	4045.0	3419.8	3053.3	2863.5
32.5°	30349.1	27232.0	23829.5	19909.6	15791.9	11516.6	7861.6	5015.0	3855.8	3319.2	2994.7
30°	36090.7	32347.6	28552.3	24718.5	20362.2	15791.9	11097.1	7231.2	4725.5	3615.8	3153.7
27.5°	43706.5	37729.5	33374.9	28996.9	24718.5	19909.6	14930.6	10016.0	5984.3	4249.8	3414.6
25°	52785.8	45365.5	38527.6	33374.9	28552.3	23829.5	18564.2	13229.4	8429.2	4968.7	3658.1
22.5°	62695.5	53893.3	45365.5	37729.5	32347.6	27232.0	21991.1	16375.8	10729.0	6257.4	4215.2
20°	72534.4	62695.5	52785.8	43706.5	36090.7	30349.1	25075.1	19296.2	13413.5	8185.9	4778.7
17.5°	81804.7	71243.3	60314.2	49510.4	40451.7	33497.6	27705.0	21951.8	15835.3	9921.4	5284.8
15°	90478.0	79071.2	67436.2	55790.5	45013.7	36328.7	30044.1	24300.9	17986.4	11703.6	6562.7
12.5°	99049.8	86052.6	73766.8	61299.2	49248.1	39373.2	32248.5	26166.0	19859.5	13403.4	7775.1
10°	106655.0	92348.3	79170.9	66189.9	53493.9	42435.7	34137.9	27719.2	21415.9	14813.1	8779.1
7.5°	113533.3	97751.6	83520.7	70099.6	56873.0	44864.8	35632.3	28944.9	22641.9	15921.8	9567.6
5°	118643.4	101735.0	86709.0	72952.7	59330.3	46626.5	36713.8	29830.3	23526.1	16720.4	10135.0
2.5°	121796.7	104178.9	88656.7	74690.1	60823.0	47694.5	37368.4	30365.6	24060.2	17202.4	10477.2
0°	122863.3	105002.9	89312.0	75273.6	61323.7	48052.4	37587.6	30544.7	24238.8	17363.5	10591.5
-2.5°	121796.7	104178.9	88656.7	74690.1	60823.0	47694.5	37368.4	30365.6	24060.2	17202.4	10477.2
-5°	118643.4	101735.0	86709.0	72952.7	59330.3	46626.5	36713.8	29830.3	23526.1	16720.4	10135.0
-7.5°	113533.3	97751.6	83520.7	70099.6	56873.0	44864.8	35632.3	28944.9	22641.9	15921.8	9567.6
-10°	106655.0	92348.3	79170.9	66189.9	53493.9	42435.7	34137.9	27719.2	21415.9	14813.1	8779.1
-12.5°	99049.8	86052.6	73766.8	61299.2	49248.1	39373.2	32248.5	26166.0	19859.5	13403.4	7775.1
-15°	90478.0	79071.2	67436.2	55790.5	45013.7	36328.7	30044.1	24300.9	17986.4	11703.6	6562.7
-17.5°	81804.7	71243.3	60314.2	49510.4	40451.7	33497.6	27705.0	21951.8	15835.3	9921.4	5284.8
-20°	72534.4	62695.5	52785.8	43706.5	36090.7	30349.1	25075.1	19296.2	13413.5	8185.9	4778.7



REPORT NUMBER: P1212226 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-5S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	62695.5	53893.3	45365.5	37729.5	32347.6	27232.0	21991.1	16375.8	10729.0	6257.4	4215.2
-25°	52785.8	45365.5	38527.6	33374.9	28552.3	23829.5	18564.2	13229.4	8429.2	4968.7	3658.1
-27.5°	43706.5	37729.5	33374.9	28996.9	24718.5	19909.6	14930.6	10016.0	5984.3	4249.8	3414.6
-30°	36090.7	32347.6	28552.3	24718.5	20362.2	15791.9	11097.1	7231.2	4725.5	3615.8	3153.7
-32.5°	30349.1	27232.0	23829.5	19909.6	15791.9	11516.6	7861.6	5015.0	3855.8	3319.2	2994.7
-35°	25075.1	21991.1	18564.2	14930.6	11097.1	7861.6	5112.2	4045.0	3419.8	3053.3	2863.5
-37.5°	19296.2	16375.8	13229.4	10016.0	7231.2	5015.0	4045.0	3453.6	3082.9	2906.9	2721.4
-40°	13413.5	10729.0	8429.2	5984.3	4725.5	3855.8	3419.8	3082.9	2921.4	2751.2	2571.0
-42.5°	8185.9	6257.4	4968.7	4249.8	3615.8	3319.2	3053.3	2906.9	2751.2	2585.7	2320.7
-45°	4778.7	4215.2	3658.1	3414.6	3153.7	2994.7	2863.5	2721.4	2571.0	2320.7	2035.3
-47.5°	3550.4	3360.7	3152.3	3017.0	2908.1	2790.7	2662.1	2519.2	2269.6	2012.8	1773.6
-50°	3053.9	2975.3	2888.9	2793.6	2687.6	2574.4	2391.1	2168.0	1945.7	1729.4	1511.3
-52.5°	2808.6	2732.6	2649.0	2557.9	2400.0	2214.4	2019.6	1834.9	1641.5	1450.8	1257.0
-55°	2550.2	2436.8	2300.6	2152.1	1996.7	1844.1	1682.1	1516.9	1350.9	1177.6	1013.5
-57.5°	2100.4	1992.8	1881.7	1760.5	1629.6	1496.8	1358.8	1213.0	1070.3	924.7	778.2
-60°	1682.1	1590.6	1496.8	1394.5	1283.8	1166.0	1051.2	929.7	802.0	693.9	582.0
-62.5°	1293.2	1216.5	1135.6	1051.2	959.9	861.9	765.6	676.8	583.2	489.0	419.9
-65°	934.0	871.4	802.0	740.4	674.3	603.3	527.6	463.4	406.2	346.2	286.6
-67.5°	626.8	582.0	532.3	484.1	444.2	401.3	355.5	306.9	268.1	232.3	194.8
-70°	394.6	367.9	338.3	305.8	278.0	252.8	225.8	197.3	167.1	143.6	123.3
-72.5°	233.6	218.2	201.1	182.3	162.0	146.5	132.1	116.8	100.7	83.7	70.0
-75°	126.0	117.9	109.0	99.2	88.5	77.0	69.5	63.6	57.4	50.9	44.1
-77.5°	61.9	58.9	55.6	51.9	48.0	43.7	39.1	35.1	32.5	29.9	27.1
-80°	31.4	30.2	28.9	27.5	26.0	24.3	22.5	20.6	18.6	17.1	16.3
-82.5°	16.3	16.0	15.6	15.2	14.8	14.3	13.8	13.3	12.8	12.2	11.6
-85°	10.6	10.6	10.5	10.4	10.4	10.3	10.2	10.1	10.1	10.0	9.9
-87.5°	8.6	8.5	8.3	8.2	8.0	7.8	7.5	7.3	7.0	6.8	6.5
-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: P1212226 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-5S-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°	6.2	5.9	5.6	5.3	4.9	4.6	4.2	3.9	3.5	3.1	2.8
85°	9.8	9.7	9.5	9.4	9.3	9.2	8.5	7.8	7.0	6.3	5.5
82.5°	11.0	10.7	10.5	10.3	10.2	10.0	9.8	9.6	9.4	9.2	8.3
80°	15.5	14.6	13.7	12.7	11.7	10.8	10.5	10.3	10.0	9.8	9.5
77.5°	24.2	21.2	18.0	16.5	15.3	14.1	12.8	11.5	10.6	10.3	10.0
75°	37.0	32.8	29.0	25.1	21.1	17.3	15.8	14.2	12.6	11.0	10.5
72.5°	61.7	53.1	44.1	35.4	30.7	25.9	21.0	17.0	15.1	13.2	11.3
70°	102.1	80.1	66.2	55.6	44.7	34.8	29.2	23.5	17.7	15.4	13.2
67.5°	156.2	131.4	105.8	79.4	63.9	51.4	38.6	30.8	24.3	17.7	15.1
65°	243.2	198.3	153.7	124.4	94.2	68.9	54.7	40.2	30.8	23.5	17.0
62.5°	348.0	280.0	228.9	176.3	135.6	101.7	70.6	54.7	38.6	29.2	21.0
60°	475.9	394.6	310.7	247.4	188.5	139.4	101.7	68.9	51.4	34.8	25.9
57.5°	652.0	521.6	422.7	329.4	253.5	188.5	135.6	94.2	63.9	44.7	30.7
55°	843.8	694.3	549.6	432.2	329.4	247.4	176.3	124.4	79.4	55.6	35.4
52.5°	1067.2	879.4	708.5	549.6	422.7	310.7	228.9	153.7	105.8	66.2	44.1
50°	1296.9	1085.2	879.4	694.3	521.6	394.6	280.0	198.3	131.4	80.1	53.1
47.5°	1531.6	1296.9	1067.2	843.8	652.0	475.9	348.0	243.2	156.2	102.1	61.7
45°	1773.6	1511.3	1257.0	1013.5	778.2	582.0	419.9	286.6	194.8	123.3	70.0
42.5°	2012.8	1729.4	1450.8	1177.6	924.7	693.9	489.0	346.2	232.3	143.6	83.7
40°	2269.6	1945.7	1641.5	1350.9	1070.3	802.0	583.2	406.2	268.1	167.1	100.7
37.5°	2519.2	2168.0	1834.9	1516.9	1213.0	929.7	676.8	463.4	306.9	197.3	116.8
35°	2662.1	2391.1	2019.6	1682.1	1358.8	1051.2	765.6	527.6	355.5	225.8	132.1
32.5°	2790.7	2574.4	2214.4	1844.1	1496.8	1166.0	861.9	603.3	401.3	252.8	146.5
30°	2908.1	2687.6	2400.0	1996.7	1629.6	1283.8	959.9	674.3	444.2	278.0	162.0
27.5°	3017.0	2793.6	2557.9	2152.1	1760.5	1394.5	1051.2	740.4	484.1	305.8	182.3
25°	3152.3	2888.9	2649.0	2300.6	1881.7	1496.8	1135.6	802.0	532.3	338.3	201.1
22.5°	3360.7	2975.3	2732.6	2436.8	1992.8	1590.6	1216.5	871.4	582.0	367.9	218.2
20°	3550.4	3053.9	2808.6	2550.2	2100.4	1682.1	1293.2	934.0	626.8	394.6	233.6
17.5°	3768.8	3165.3	2873.8	2612.4	2201.1	1763.7	1361.4	989.7	666.7	418.3	247.4
15°	4179.6	3302.9	2930.5	2666.9	2289.2	1834.9	1421.0	1038.4	701.4	439.0	259.3
12.5°	4531.5	3420.6	2979.0	2713.5	2364.3	1895.7	1471.8	1079.8	731.0	456.6	269.4
10°	4822.5	3517.8	3019.0	2751.8	2426.2	1945.7	1513.6	1113.9	755.3	471.0	277.8
7.5°	5050.9	3594.1	3050.3	2781.9	2474.6	1984.8	1546.2	1140.5	774.3	482.3	284.3
5°	5215.0	3648.8	3072.7	2803.4	2509.3	2012.8	1569.6	1159.5	787.9	490.4	289.0
2.5°	5313.9	3681.8	3086.3	2816.4	2530.2	2029.7	1583.7	1171.0	796.1	495.3	291.8
0°	5347.0	3692.8	3090.8	2820.7	2537.2	2035.3	1588.4	1174.8	798.8	496.9	292.7
-2.5°	5313.9	3681.8	3086.3	2816.4	2530.2	2029.7	1583.7	1171.0	796.1	495.3	291.8
-5°	5215.0	3648.8	3072.7	2803.4	2509.3	2012.8	1569.6	1159.5	787.9	490.4	289.0
-7.5°	5050.9	3594.1	3050.3	2781.9	2474.6	1984.8	1546.2	1140.5	774.3	482.3	284.3
-10°	4822.5	3517.8	3019.0	2751.8	2426.2	1945.7	1513.6	1113.9	755.3	471.0	277.8
-12.5°	4531.5	3420.6	2979.0	2713.5	2364.3	1895.7	1471.8	1079.8	731.0	456.6	269.4
-15°	4179.6	3302.9	2930.5	2666.9	2289.2	1834.9	1421.0	1038.4	701.4	439.0	259.3
-17.5°	3768.8	3165.3	2873.8	2612.4	2201.1	1763.7	1361.4	989.7	666.7	418.3	247.4
-20°	3550.4	3053.9	2808.6	2550.2	2100.4	1682.1	1293.2	934.0	626.8	394.6	233.6



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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°	3360.7	2975.3	2732.6	2436.8	1992.8	1590.6	1216.5	871.4	582.0	367.9	218.2
-25°	3152.3	2888.9	2649.0	2300.6	1881.7	1496.8	1135.6	802.0	532.3	338.3	201.1
-27.5°	3017.0	2793.6	2557.9	2152.1	1760.5	1394.5	1051.2	740.4	484.1	305.8	182.3
-30°	2908.1	2687.6	2400.0	1996.7	1629.6	1283.8	959.9	674.3	444.2	278.0	162.0
-32.5°	2790.7	2574.4	2214.4	1844.1	1496.8	1166.0	861.9	603.3	401.3	252.8	146.5
-35°	2662.1	2391.1	2019.6	1682.1	1358.8	1051.2	765.6	527.6	355.5	225.8	132.1
-37.5°	2519.2	2168.0	1834.9	1516.9	1213.0	929.7	676.8	463.4	306.9	197.3	116.8
-40°	2269.6	1945.7	1641.5	1350.9	1070.3	802.0	583.2	406.2	268.1	167.1	100.7
-42.5°	2012.8	1729.4	1450.8	1177.6	924.7	693.9	489.0	346.2	232.3	143.6	83.7
-45°	1773.6	1511.3	1257.0	1013.5	778.2	582.0	419.9	286.6	194.8	123.3	70.0
-47.5°	1531.6	1296.9	1067.2	843.8	652.0	475.9	348.0	243.2	156.2	102.1	61.7
-50°	1296.9	1085.2	879.4	694.3	521.6	394.6	280.0	198.3	131.4	80.1	53.1
-52.5°	1067.2	879.4	708.5	549.6	422.7	310.7	228.9	153.7	105.8	66.2	44.1
-55°	843.8	694.3	549.6	432.2	329.4	247.4	176.3	124.4	79.4	55.6	35.4
-57.5°	652.0	521.6	422.7	329.4	253.5	188.5	135.6	94.2	63.9	44.7	30.7
-60°	475.9	394.6	310.7	247.4	188.5	139.4	101.7	68.9	51.4	34.8	25.9
-62.5°	348.0	280.0	228.9	176.3	135.6	101.7	70.6	54.7	38.6	29.2	21.0
-65°	243.2	198.3	153.7	124.4	94.2	68.9	54.7	40.2	30.8	23.5	17.0
-67.5°	156.2	131.4	105.8	79.4	63.9	51.4	38.6	30.8	24.3	17.7	15.1
-70°	102.1	80.1	66.2	55.6	44.7	34.8	29.2	23.5	17.7	15.4	13.2
-72.5°	61.7	53.1	44.1	35.4	30.7	25.9	21.0	17.0	15.1	13.2	11.3
-75°	37.0	32.8	29.0	25.1	21.1	17.3	15.8	14.2	12.6	11.0	10.5
-77.5°	24.2	21.2	18.0	16.5	15.3	14.1	12.8	11.5	10.6	10.3	10.0
-80°	15.5	14.6	13.7	12.7	11.7	10.8	10.5	10.3	10.0	9.8	9.5
-82.5°	11.0	10.7	10.5	10.3	10.2	10.0	9.8	9.6	9.4	9.2	8.3
-85°	9.8	9.7	9.5	9.4	9.3	9.2	8.5	7.8	7.0	6.3	5.5
-87.5°	6.2	5.9	5.6	5.3	4.9	4.6	4.2	3.9	3.5	3.1	2.8
-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):**

	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°	4.8	4.0	3.2	2.4	1.6	0.8	0.0
82.5°	7.1	6.0	4.8	3.6	2.4	1.2	0.0
80°	9.2	7.9	6.4	4.8	3.2	1.6	0.0
77.5°	9.7	9.3	7.9	6.0	4.0	2.0	0.0
75°	10.1	9.7	9.2	7.1	4.8	2.4	0.0
72.5°	10.5	10.0	9.5	8.3	5.5	2.8	0.0
70°	11.0	10.3	9.8	9.2	6.3	3.1	0.0
67.5°	12.6	10.6	10.0	9.4	7.0	3.5	0.0
65°	14.2	11.5	10.3	9.6	7.8	3.9	0.0
62.5°	15.8	12.8	10.5	9.8	8.5	4.2	0.0
60°	17.3	14.1	10.8	10.0	9.2	4.6	0.0
57.5°	21.1	15.3	11.7	10.2	9.3	4.9	0.0
55°	25.1	16.5	12.7	10.3	9.4	5.3	0.0
52.5°	29.0	18.0	13.7	10.5	9.5	5.6	0.0
50°	32.8	21.2	14.6	10.7	9.7	5.9	0.0
47.5°	37.0	24.2	15.5	11.0	9.8	6.2	0.0
45°	44.1	27.1	16.3	11.6	9.9	6.5	0.0
42.5°	50.9	29.9	17.1	12.2	10.0	6.8	0.0
40°	57.4	32.5	18.6	12.8	10.1	7.0	0.0
37.5°	63.6	35.1	20.6	13.3	10.1	7.3	0.0
35°	69.5	39.1	22.5	13.8	10.2	7.5	0.0
32.5°	77.0	43.7	24.3	14.3	10.3	7.8	0.0
30°	88.5	48.0	26.0	14.8	10.4	8.0	0.0
27.5°	99.2	51.9	27.5	15.2	10.4	8.2	0.0
25°	109.0	55.6	28.9	15.6	10.5	8.3	0.0
22.5°	117.9	58.9	30.2	16.0	10.6	8.5	0.0
20°	126.0	61.9	31.4	16.3	10.6	8.6	0.0
17.5°	133.1	64.6	32.5	16.6	10.7	8.8	0.0
15°	139.4	66.9	33.4	16.8	10.7	8.9	0.0
12.5°	144.7	68.9	34.1	17.0	10.7	9.0	0.0
10°	149.0	70.5	34.8	17.2	10.8	9.1	0.0
7.5°	152.4	71.8	35.3	17.3	10.8	9.1	0.0
5°	154.9	72.7	35.6	17.4	10.8	9.2	0.0
2.5°	156.3	73.2	35.8	17.5	10.8	9.2	0.0
0°	156.8	73.4	35.9	17.5	10.8	9.2	0.0
-2.5°	156.3	73.2	35.8	17.5	10.8	9.2	0.0
-5°	154.9	72.7	35.6	17.4	10.8	9.2	0.0
-7.5°	152.4	71.8	35.3	17.3	10.8	9.1	0.0
-10°	149.0	70.5	34.8	17.2	10.8	9.1	0.0
-12.5°	144.7	68.9	34.1	17.0	10.7	9.0	0.0
-15°	139.4	66.9	33.4	16.8	10.7	8.9	0.0
-17.5°	133.1	64.6	32.5	16.6	10.7	8.8	0.0
-20°	126.0	61.9	31.4	16.3	10.6	8.6	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	117.9	58.9	30.2	16.0	10.6	8.5	0.0
-25°	109.0	55.6	28.9	15.6	10.5	8.3	0.0
-27.5°	99.2	51.9	27.5	15.2	10.4	8.2	0.0
-30°	88.5	48.0	26.0	14.8	10.4	8.0	0.0
-32.5°	77.0	43.7	24.3	14.3	10.3	7.8	0.0
-35°	69.5	39.1	22.5	13.8	10.2	7.5	0.0
-37.5°	63.6	35.1	20.6	13.3	10.1	7.3	0.0
-40°	57.4	32.5	18.6	12.8	10.1	7.0	0.0
-42.5°	50.9	29.9	17.1	12.2	10.0	6.8	0.0
-45°	44.1	27.1	16.3	11.6	9.9	6.5	0.0
-47.5°	37.0	24.2	15.5	11.0	9.8	6.2	0.0
-50°	32.8	21.2	14.6	10.7	9.7	5.9	0.0
-52.5°	29.0	18.0	13.7	10.5	9.5	5.6	0.0
-55°	25.1	16.5	12.7	10.3	9.4	5.3	0.0
-57.5°	21.1	15.3	11.7	10.2	9.3	4.9	0.0
-60°	17.3	14.1	10.8	10.0	9.2	4.6	0.0
-62.5°	15.8	12.8	10.5	9.8	8.5	4.2	0.0
-65°	14.2	11.5	10.3	9.6	7.8	3.9	0.0
-67.5°	12.6	10.6	10.0	9.4	7.0	3.5	0.0
-70°	11.0	10.3	9.8	9.2	6.3	3.1	0.0
-72.5°	10.5	10.0	9.5	8.3	5.5	2.8	0.0
-75°	10.1	9.7	9.2	7.1	4.8	2.4	0.0
-77.5°	9.7	9.3	7.9	6.0	4.0	2.0	0.0
-80°	9.2	7.9	6.4	4.8	3.2	1.6	0.0
-82.5°	7.1	6.0	4.8	3.6	2.4	1.2	0.0
-85°	4.8	4.0	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)