

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: P1212220 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-57-90-3S-HEG**

Issue Date: 11/14/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1212220 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/14/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: EPHESUS  
Catalog Number: EPH-LS12-1000R-57-90-3S-HEG  
Description: EPHESUS LS12 LUMINAIRE  
(12) 5700K, 90 CRI LEDS AND 3S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

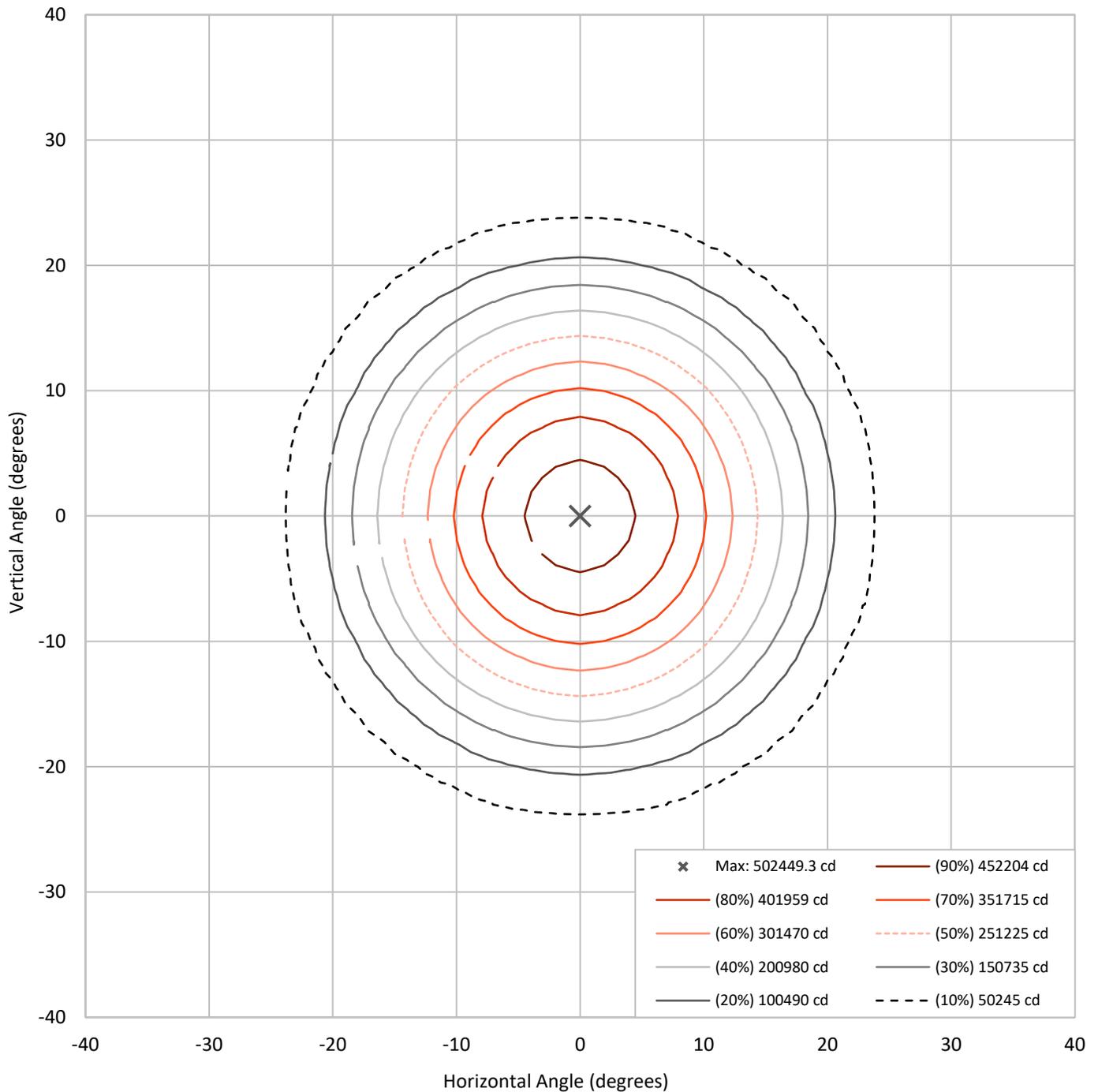
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	140804.8 lumens	Max Intensity:	502449.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	135.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	28.7°H x 28.7°V	Field Angle (10%):	47.6°H x 47.6°V
Beam Lumens:	73648 lumens	Field Lumens:	113542.1 lumens
Beam Efficiency:	52.3%	Field Efficiency:	80.6%
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





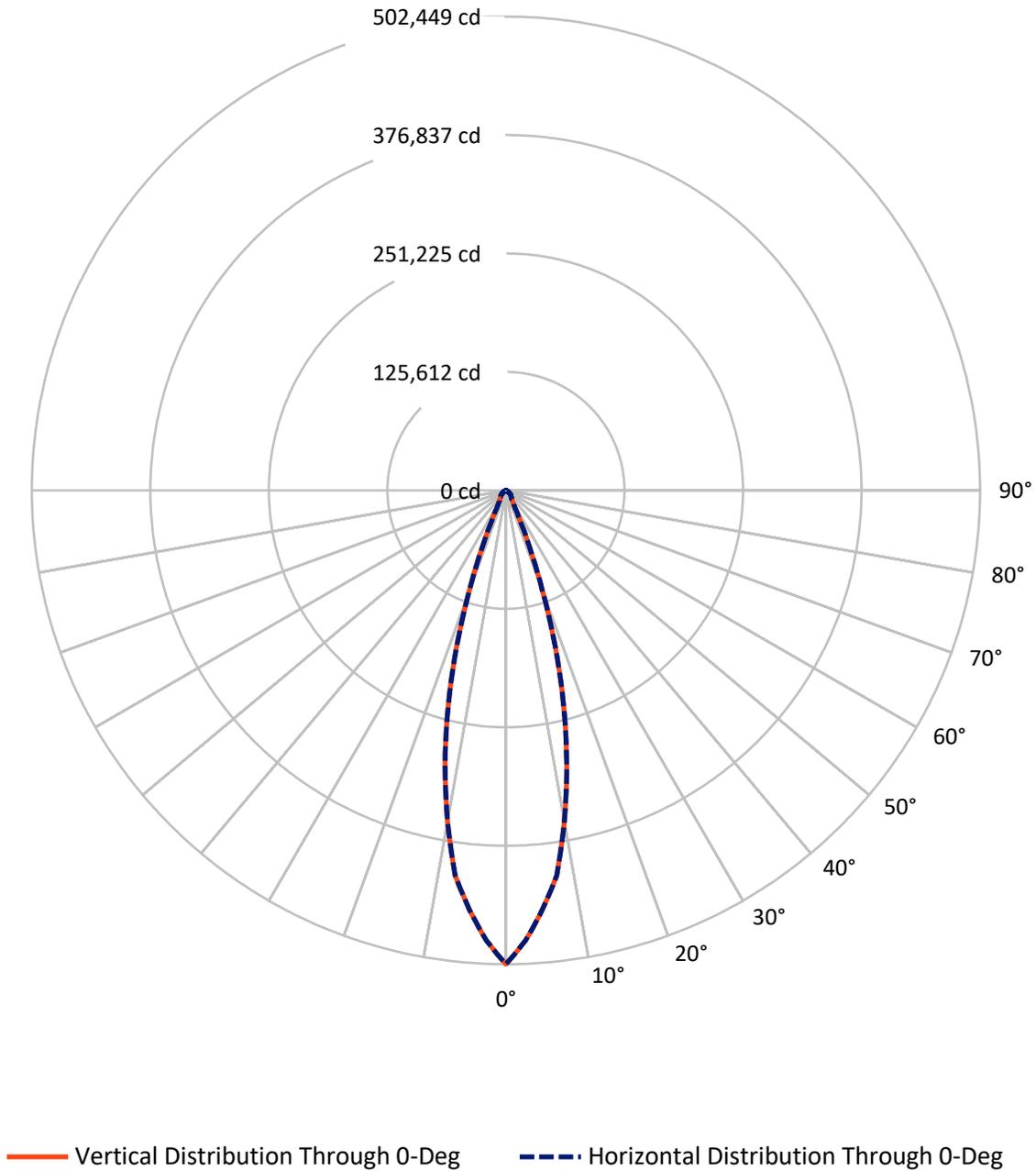
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### Lumen Table

90	0.1	0.6	4.1	11.7	15.7	11.7	4.1	0.6	0.1										
80	0.1	0.6	4.1	11.7	15.7	11.7	4.1	0.6	0.1										
70	0.3	0.6	3.0	9.1	18.6	29.1	38.2	43.3	43.3	38.2	29.1	18.6	9.1	3.0	0.6	0.3			
60		2.3	10.7	27.3	50.3	78.6	104.1	118.8	118.8	104.1	78.6	50.3	27.3	10.7	2.3				
50	1.5	5.6	22.3	53.5	102.4	155.5	196.9	218.4	218.4	196.9	155.5	102.4	53.5	22.3	5.6	1.5			
40		9.9	35.6	88.8	160.3	223.0	281.0	327.7	327.7	281.0	223.0	160.3	88.8	35.6	9.9				
30	3.6	14.0	50.5	122.0	201.8	309.1	627.2	1251.1	1251.1	627.2	309.1	201.8	122.0	50.5	14.0	3.6			
20		17.3	62.8	145.0	239.1	591.5	2881.6	6351.4	6351.4	2881.6	591.5	239.1	145.0	62.8	17.3				
10	4.5	19.0	69.5	155.8	270.9	1151.5	6180.0	12043.3	12043.3	6180.0	1151.5	270.9	155.8	69.5	19.0	4.5			
0		19.0	69.5	155.8	270.9	1151.5	6180.0	12043.3	12043.3	6180.0	1151.5	270.9	155.8	69.5	19.0				
-10	3.6	17.3	62.8	145.0	239.1	591.5	2881.6	6351.4	6351.4	2881.6	591.5	239.1	145.0	62.8	17.3	3.6			
-20		14.0	50.5	122.0	201.8	309.1	627.2	1251.1	1251.1	627.2	309.1	201.8	122.0	50.5	14.0				
-30	1.5	9.9	35.6	88.8	160.3	223.0	281.0	327.7	327.7	281.0	223.0	160.3	88.8	35.6	9.9	1.5			
-40		5.6	22.3	53.5	102.4	155.5	196.9	218.4	218.4	196.9	155.5	102.4	53.5	22.3	5.6				
-50	0.3	2.3	10.7	27.3	50.3	78.6	104.1	118.8	118.8	104.1	78.6	50.3	27.3	10.7	2.3	0.3			
-60		0.6	3.0	9.1	18.6	29.1	38.2	43.3	43.3	38.2	29.1	18.6	9.1	3.0	0.6				
-70	0.1	0.6	3.0	9.1	18.6	29.1	38.2	43.3	43.3	38.2	29.1	18.6	9.1	3.0	0.6	0.1			
-80		0.1	0.6	4.1	11.7	15.7	11.7	4.1	0.6	0.1									
-90	0.1	0.6	4.1	11.7	15.7	11.7	4.1	0.6	0.1										
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

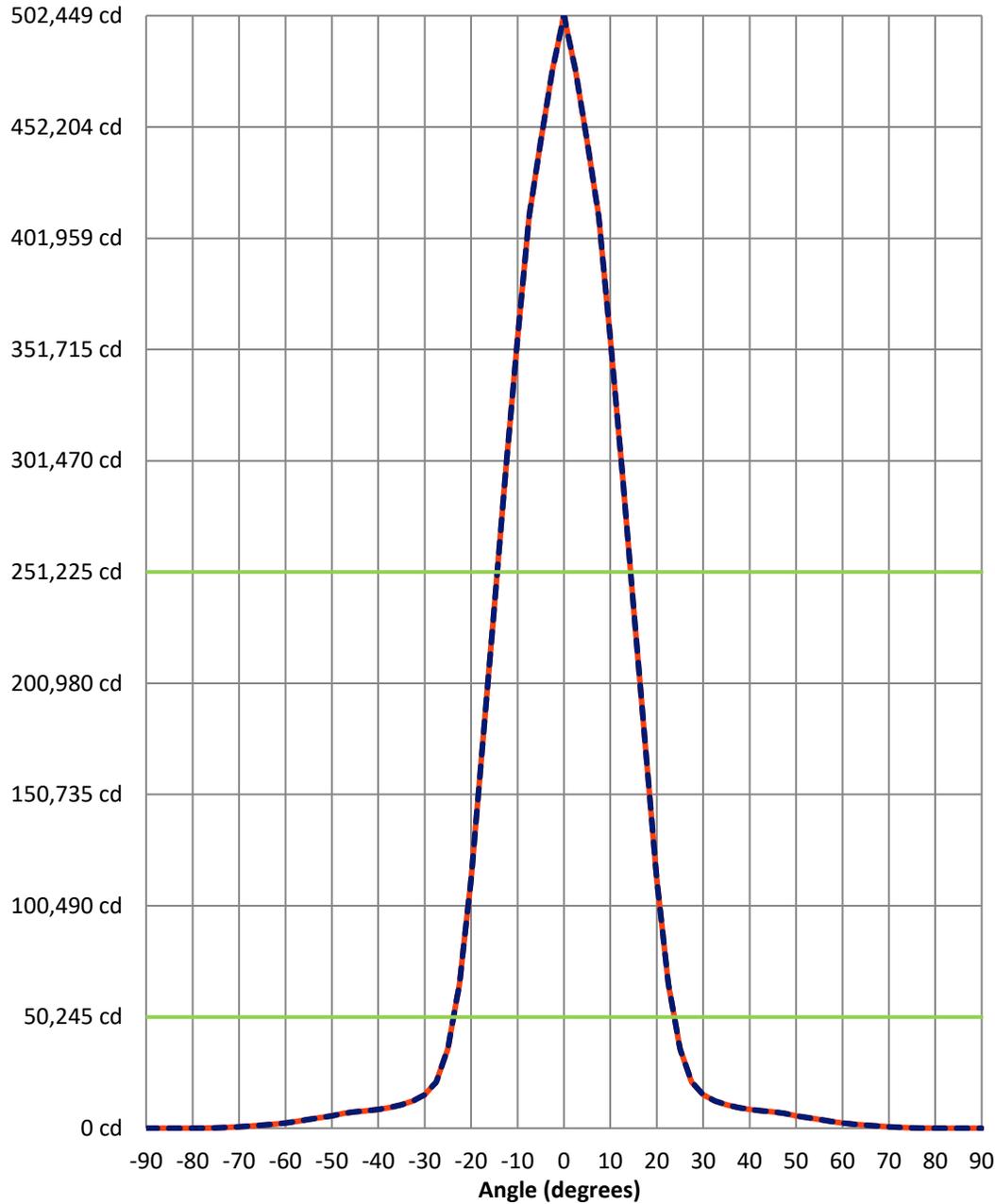
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
H Angle: 28.7°  
V Angle: 28.7°  
Lumens: 73648  
Efficiency: 52.3%

**Field:**  
H Angle: 47.6°  
V Angle: 47.6°  
Lumens: 113542.1  
Efficiency: 80.6%

**Spill:**  
Lumens: 27262.7  
Efficiency: 19.4%

— 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	0.1	0.3	0.4	0.6	0.7	0.9	1.0	1.1	1.3	1.4
85°	0.0	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8
82.5°	0.0	0.4	0.9	1.3	1.7	2.1	2.6	3.0	3.3	3.5	3.8
80°	0.0	0.6	1.1	1.7	2.3	2.8	3.4	3.6	3.9	4.2	4.5
77.5°	0.0	0.7	1.4	2.1	2.8	3.4	3.8	4.1	4.5	4.8	5.5
75°	0.0	0.9	1.7	2.6	3.4	3.8	4.2	4.6	5.2	6.4	7.6
72.5°	0.0	1.0	2.0	3.0	3.6	4.1	4.6	5.4	6.8	8.2	9.6
70°	0.0	1.1	2.3	3.3	3.9	4.5	5.2	6.8	8.4	10.2	16.8
67.5°	0.0	1.3	2.5	3.5	4.2	4.8	6.4	8.2	10.2	17.7	25.1
65°	0.0	1.4	2.8	3.8	4.5	5.5	7.6	9.6	16.8	25.1	36.1
62.5°	0.0	1.5	3.0	3.9	4.7	6.5	8.7	14.0	23.3	34.1	53.5
60°	0.0	1.6	3.3	4.1	5.0	7.4	9.9	19.6	29.6	49.5	70.5
57.5°	0.0	1.8	3.4	4.3	5.7	8.4	14.1	25.0	41.5	64.5	106.9
55°	0.0	1.9	3.5	4.5	6.4	9.3	18.7	30.3	54.5	84.8	151.8
52.5°	0.0	2.0	3.7	4.7	7.1	10.6	23.1	40.8	67.2	124.2	195.5
50°	0.0	2.1	3.8	4.9	7.8	14.2	27.4	51.5	85.8	162.3	259.9
47.5°	0.0	2.2	3.9	5.1	8.5	17.6	32.2	61.9	118.6	199.3	324.7
45°	0.0	2.3	4.0	5.6	9.1	20.9	40.7	71.9	150.2	254.9	387.2
42.5°	0.0	2.4	4.1	6.0	9.7	24.1	48.9	91.3	180.5	308.9	466.1
40°	0.0	2.5	4.2	6.5	11.2	27.1	56.7	116.5	214.9	360.5	544.8
37.5°	0.0	2.6	4.3	6.9	13.5	30.0	64.2	140.6	258.4	414.6	619.8
35°	0.0	2.7	4.4	7.3	15.7	34.7	71.2	163.3	299.6	478.3	701.2
32.5°	0.0	2.8	4.5	7.6	17.7	40.2	81.3	184.8	338.5	538.4	793.6
30°	0.0	2.9	4.5	8.0	19.6	45.4	98.4	207.5	374.8	594.6	880.2
27.5°	0.0	2.9	4.6	8.3	21.4	50.1	114.3	236.9	413.2	646.9	960.9
25°	0.0	3.0	4.7	8.6	23.0	54.5	128.9	264.0	455.7	707.0	1035.5
22.5°	0.0	3.0	4.7	8.9	24.5	58.5	142.2	288.6	494.5	767.6	1107.2
20°	0.0	3.1	4.8	9.1	25.8	62.1	154.2	310.9	529.6	822.3	1171.9
17.5°	0.0	3.1	4.8	9.3	27.0	65.3	164.9	330.6	560.7	870.9	1229.5
15°	0.0	3.2	4.9	9.5	28.0	68.1	174.1	347.8	587.8	913.3	1279.8
12.5°	0.0	3.2	4.9	9.6	28.9	70.5	182.0	362.5	610.9	949.4	1322.6
10°	0.0	3.2	4.9	9.8	29.6	72.4	188.5	374.5	629.8	979.1	1357.8
7.5°	0.0	3.3	5.0	9.9	30.2	73.9	193.6	383.9	644.6	1002.3	1385.3
5°	0.0	3.3	5.0	9.9	30.6	75.0	197.2	390.6	655.2	1018.9	1405.0
2.5°	0.0	3.3	5.0	10.0	30.8	75.7	199.4	394.7	661.6	1028.9	1416.8
0°	0.0	3.3	5.0	10.0	30.9	75.9	200.1	396.0	663.7	1032.2	1420.8
-2.5°	0.0	3.3	5.0	10.0	30.8	75.7	199.4	394.7	661.6	1028.9	1416.8
-5°	0.0	3.3	5.0	9.9	30.6	75.0	197.2	390.6	655.2	1018.9	1405.0
-7.5°	0.0	3.3	5.0	9.9	30.2	73.9	193.6	383.9	644.6	1002.3	1385.3
-10°	0.0	3.2	4.9	9.8	29.6	72.4	188.5	374.5	629.8	979.1	1357.8
-12.5°	0.0	3.2	4.9	9.6	28.9	70.5	182.0	362.5	610.9	949.4	1322.6
-15°	0.0	3.2	4.9	9.5	28.0	68.1	174.1	347.8	587.8	913.3	1279.8
-17.5°	0.0	3.1	4.8	9.3	27.0	65.3	164.9	330.6	560.7	870.9	1229.5
-20°	0.0	3.1	4.8	9.1	25.8	62.1	154.2	310.9	529.6	822.3	1171.9



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 CATALOG NUMBER: EPH-LS12-1000R-57-90-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.0	4.7	8.9	24.5	58.5	142.2	288.6	494.5	767.6	1107.2
-25°	0.0	3.0	4.7	8.6	23.0	54.5	128.9	264.0	455.7	707.0	1035.5
-27.5°	0.0	2.9	4.6	8.3	21.4	50.1	114.3	236.9	413.2	646.9	960.9
-30°	0.0	2.9	4.5	8.0	19.6	45.4	98.4	207.5	374.8	594.6	880.2
-32.5°	0.0	2.8	4.5	7.6	17.7	40.2	81.3	184.8	338.5	538.4	793.6
-35°	0.0	2.7	4.4	7.3	15.7	34.7	71.2	163.3	299.6	478.3	701.2
-37.5°	0.0	2.6	4.3	6.9	13.5	30.0	64.2	140.6	258.4	414.6	619.8
-40°	0.0	2.5	4.2	6.5	11.2	27.1	56.7	116.5	214.9	360.5	544.8
-42.5°	0.0	2.4	4.1	6.0	9.7	24.1	48.9	91.3	180.5	308.9	466.1
-45°	0.0	2.3	4.0	5.6	9.1	20.9	40.7	71.9	150.2	254.9	387.2
-47.5°	0.0	2.2	3.9	5.1	8.5	17.6	32.2	61.9	118.6	199.3	324.7
-50°	0.0	2.1	3.8	4.9	7.8	14.2	27.4	51.5	85.8	162.3	259.9
-52.5°	0.0	2.0	3.7	4.7	7.1	10.6	23.1	40.8	67.2	124.2	195.5
-55°	0.0	1.9	3.5	4.5	6.4	9.3	18.7	30.3	54.5	84.8	151.8
-57.5°	0.0	1.8	3.4	4.3	5.7	8.4	14.1	25.0	41.5	64.5	106.9
-60°	0.0	1.6	3.3	4.1	5.0	7.4	9.9	19.6	29.6	49.5	70.5
-62.5°	0.0	1.5	3.0	3.9	4.7	6.5	8.7	14.0	23.3	34.1	53.5
-65°	0.0	1.4	2.8	3.8	4.5	5.5	7.6	9.6	16.8	25.1	36.1
-67.5°	0.0	1.3	2.5	3.5	4.2	4.8	6.4	8.2	10.2	17.7	25.1
-70°	0.0	1.1	2.3	3.3	3.9	4.5	5.2	6.8	8.4	10.2	16.8
-72.5°	0.0	1.0	2.0	3.0	3.6	4.1	4.6	5.4	6.8	8.2	9.6
-75°	0.0	0.9	1.7	2.6	3.4	3.8	4.2	4.6	5.2	6.4	7.6
-77.5°	0.0	0.7	1.4	2.1	2.8	3.4	3.8	4.1	4.5	4.8	5.5
-80°	0.0	0.6	1.1	1.7	2.3	2.8	3.4	3.6	3.9	4.2	4.5
-82.5°	0.0	0.4	0.9	1.3	1.7	2.1	2.6	3.0	3.3	3.5	3.8
-85°	0.0	0.3	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8
-87.5°	0.0	0.1	0.3	0.4	0.6	0.7	0.9	1.0	1.1	1.3	1.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	-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°	1.5	1.6	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6
85°	3.0	3.3	3.4	3.5	3.7	3.8	3.9	4.0	4.1	4.2	4.3
82.5°	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.6	6.0	6.5	6.9
80°	4.7	5.0	5.7	6.4	7.1	7.8	8.5	9.1	9.7	11.2	13.5
77.5°	6.5	7.4	8.4	9.3	10.6	14.2	17.6	20.9	24.1	27.1	30.0
75°	8.7	9.9	14.1	18.7	23.1	27.4	32.2	40.7	48.9	56.7	64.2
72.5°	14.0	19.6	25.0	30.3	40.8	51.5	61.9	71.9	91.3	116.5	140.6
70°	23.3	29.6	41.5	54.5	67.2	85.8	118.6	150.2	180.5	214.9	258.4
67.5°	34.1	49.5	64.5	84.8	124.2	162.3	199.3	254.9	308.9	360.5	414.6
65°	53.5	70.5	106.9	151.8	195.5	259.9	324.7	387.2	466.1	544.8	619.8
62.5°	72.5	118.1	168.6	228.1	304.0	377.7	468.5	562.7	653.4	769.1	883.2
60°	118.1	174.1	245.9	330.6	419.7	529.6	636.1	767.6	904.2	1035.5	1167.5
57.5°	168.6	245.9	339.5	444.2	566.5	693.8	853.0	1007.0	1162.3	1312.8	1458.8
55°	228.1	330.6	444.2	578.8	728.1	904.7	1078.7	1254.1	1423.6	1595.8	1760.8
52.5°	304.0	419.7	566.5	728.1	922.0	1115.5	1309.6	1502.5	1695.1	1896.9	2134.0
50°	377.7	529.6	693.8	904.7	1115.5	1328.2	1542.2	1755.2	2004.6	2269.8	2578.9
47.5°	468.5	636.1	853.0	1078.7	1309.6	1542.2	1775.3	2058.9	2352.0	2731.4	3106.4
45°	562.7	767.6	1007.0	1254.1	1502.5	1755.2	2058.9	2379.6	2808.3	3236.7	3696.7
42.5°	653.4	904.2	1162.3	1423.6	1695.1	2004.6	2352.0	2808.3	3281.7	3788.1	4259.3
40°	769.1	1035.5	1312.8	1595.8	1896.9	2269.8	2731.4	3236.7	3788.1	4302.9	4788.0
37.5°	883.2	1167.5	1458.8	1760.8	2134.0	2578.9	3106.4	3696.7	4259.3	4788.0	5288.6
35°	991.6	1293.1	1603.6	1946.7	2360.3	2913.9	3515.4	4129.1	4699.1	5244.2	5847.3
32.5°	1097.4	1411.7	1740.8	2145.3	2648.6	3247.2	3908.7	4523.0	5112.0	5716.1	6520.0
30°	1198.7	1529.1	1882.3	2332.3	2927.4	3593.3	4262.9	4894.5	5501.8	6319.3	6999.8
27.5°	1293.1	1639.1	2042.8	2555.0	3196.6	3917.7	4590.0	5237.4	5989.3	6834.7	7368.7
25°	1380.2	1740.8	2191.4	2778.0	3475.2	4205.3	4892.6	5557.3	6487.9	7158.5	7627.4
22.5°	1462.2	1834.5	2327.5	2982.6	3731.2	4465.0	5166.5	5965.3	6870.9	7454.4	7845.1
20°	1538.4	1946.7	2477.4	3173.2	3963.5	4701.0	5415.8	6356.2	7126.3	7640.1	8085.2
17.5°	1606.2	2046.6	2628.6	3363.5	4160.1	4909.7	5655.7	6707.2	7356.2	7807.7	8321.3
15°	1665.5	2134.0	2760.9	3530.2	4330.4	5090.6	5940.6	6911.3	7521.8	7968.8	8533.2
12.5°	1715.9	2208.5	2873.7	3672.5	4475.9	5245.3	6184.7	7071.9	7639.4	8135.3	8790.6
10°	1757.5	2269.8	2966.7	3789.9	4596.0	5373.1	6386.5	7204.9	7737.0	8273.7	9005.0
7.5°	1789.9	2317.7	3039.4	3881.7	4690.0	5473.2	6544.9	7309.3	7813.7	8382.6	9174.3
5°	1813.2	2352.0	3091.6	3947.6	4757.6	5545.2	6658.8	7384.4	7868.9	8461.2	9296.5
2.5°	1827.1	2372.7	3122.9	3987.3	4798.2	5588.5	6727.4	7429.8	7902.3	8508.7	9370.4
0°	1831.8	2379.6	3133.4	4000.5	4811.8	5603.0	6750.3	7444.9	7913.4	8524.6	9395.1
-2.5°	1827.1	2372.7	3122.9	3987.3	4798.2	5588.5	6727.4	7429.8	7902.3	8508.7	9370.4
-5°	1813.2	2352.0	3091.6	3947.6	4757.6	5545.2	6658.8	7384.4	7868.9	8461.2	9296.5
-7.5°	1789.9	2317.7	3039.4	3881.7	4690.0	5473.2	6544.9	7309.3	7813.7	8382.6	9174.3
-10°	1757.5	2269.8	2966.7	3789.9	4596.0	5373.1	6386.5	7204.9	7737.0	8273.7	9005.0
-12.5°	1715.9	2208.5	2873.7	3672.5	4475.9	5245.3	6184.7	7071.9	7639.4	8135.3	8790.6
-15°	1665.5	2134.0	2760.9	3530.2	4330.4	5090.6	5940.6	6911.3	7521.8	7968.8	8533.2
-17.5°	1606.2	2046.6	2628.6	3363.5	4160.1	4909.7	5655.7	6707.2	7356.2	7807.7	8321.3
-20°	1538.4	1946.7	2477.4	3173.2	3963.5	4701.0	5415.8	6356.2	7126.3	7640.1	8085.2



REPORT NUMBER: P1212220 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1462.2	1834.5	2327.5	2982.6	3731.2	4465.0	5166.5	5965.3	6870.9	7454.4	7845.1
-25°	1380.2	1740.8	2191.4	2778.0	3475.2	4205.3	4892.6	5557.3	6487.9	7158.5	7627.4
-27.5°	1293.1	1639.1	2042.8	2555.0	3196.6	3917.7	4590.0	5237.4	5989.3	6834.7	7368.7
-30°	1198.7	1529.1	1882.3	2332.3	2927.4	3593.3	4262.9	4894.5	5501.8	6319.3	6999.8
-32.5°	1097.4	1411.7	1740.8	2145.3	2648.6	3247.2	3908.7	4523.0	5112.0	5716.1	6520.0
-35°	991.6	1293.1	1603.6	1946.7	2360.3	2913.9	3515.4	4129.1	4699.1	5244.2	5847.3
-37.5°	883.2	1167.5	1458.8	1760.8	2134.0	2578.9	3106.4	3696.7	4259.3	4788.0	5288.6
-40°	769.1	1035.5	1312.8	1595.8	1896.9	2269.8	2731.4	3236.7	3788.1	4302.9	4788.0
-42.5°	653.4	904.2	1162.3	1423.6	1695.1	2004.6	2352.0	2808.3	3281.7	3788.1	4259.3
-45°	562.7	767.6	1007.0	1254.1	1502.5	1755.2	2058.9	2379.6	2808.3	3236.7	3696.7
-47.5°	468.5	636.1	853.0	1078.7	1309.6	1542.2	1775.3	2058.9	2352.0	2731.4	3106.4
-50°	377.7	529.6	693.8	904.7	1115.5	1328.2	1542.2	1755.2	2004.6	2269.8	2578.9
-52.5°	304.0	419.7	566.5	728.1	922.0	1115.5	1309.6	1502.5	1695.1	1896.9	2134.0
-55°	228.1	330.6	444.2	578.8	728.1	904.7	1078.7	1254.1	1423.6	1595.8	1760.8
-57.5°	168.6	245.9	339.5	444.2	566.5	693.8	853.0	1007.0	1162.3	1312.8	1458.8
-60°	118.1	174.1	245.9	330.6	419.7	529.6	636.1	767.6	904.2	1035.5	1167.5
-62.5°	72.5	118.1	168.6	228.1	304.0	377.7	468.5	562.7	653.4	769.1	883.2
-65°	53.5	70.5	106.9	151.8	195.5	259.9	324.7	387.2	466.1	544.8	619.8
-67.5°	34.1	49.5	64.5	84.8	124.2	162.3	199.3	254.9	308.9	360.5	414.6
-70°	23.3	29.6	41.5	54.5	67.2	85.8	118.6	150.2	180.5	214.9	258.4
-72.5°	14.0	19.6	25.0	30.3	40.8	51.5	61.9	71.9	91.3	116.5	140.6
-75°	8.7	9.9	14.1	18.7	23.1	27.4	32.2	40.7	48.9	56.7	64.2
-77.5°	6.5	7.4	8.4	9.3	10.6	14.2	17.6	20.9	24.1	27.1	30.0
-80°	4.7	5.0	5.7	6.4	7.1	7.8	8.5	9.1	9.7	11.2	13.5
-82.5°	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.6	6.0	6.5	6.9
-85°	3.0	3.3	3.4	3.5	3.7	3.8	3.9	4.0	4.1	4.2	4.3
-87.5°	1.5	1.6	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6
-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: P1212220 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-3S-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°	2.7	2.8	2.9	2.9	3.0	3.0	3.1	3.1	3.2	3.2	3.2
85°	4.4	4.5	4.5	4.6	4.7	4.7	4.8	4.8	4.9	4.9	4.9
82.5°	7.3	7.6	8.0	8.3	8.6	8.9	9.1	9.3	9.5	9.6	9.8
80°	15.7	17.7	19.6	21.4	23.0	24.5	25.8	27.0	28.0	28.9	29.6
77.5°	34.7	40.2	45.4	50.1	54.5	58.5	62.1	65.3	68.1	70.5	72.4
75°	71.2	81.3	98.4	114.3	128.9	142.2	154.2	164.9	174.1	182.0	188.5
72.5°	163.3	184.8	207.5	236.9	264.0	288.6	310.9	330.6	347.8	362.5	374.5
70°	299.6	338.5	374.8	413.2	455.7	494.5	529.6	560.7	587.8	610.9	629.8
67.5°	478.3	538.4	594.6	646.9	707.0	767.6	822.3	870.9	913.3	949.4	979.1
65°	701.2	793.6	880.2	960.9	1035.5	1107.2	1171.9	1229.5	1279.8	1322.6	1357.8
62.5°	991.6	1097.4	1198.7	1293.1	1380.2	1462.2	1538.4	1606.2	1665.5	1715.9	1757.5
60°	1293.1	1411.7	1529.1	1639.1	1740.8	1834.5	1946.7	2046.6	2134.0	2208.5	2269.8
57.5°	1603.6	1740.8	1882.3	2042.8	2191.4	2327.5	2477.4	2628.6	2760.9	2873.7	2966.7
55°	1946.7	2145.3	2332.3	2555.0	2778.0	2982.6	3173.2	3363.5	3530.2	3672.5	3789.9
52.5°	2360.3	2648.6	2927.4	3196.6	3475.2	3731.2	3963.5	4160.1	4330.4	4475.9	4596.0
50°	2913.9	3247.2	3593.3	3917.7	4205.3	4465.0	4701.0	4909.7	5090.6	5245.3	5373.1
47.5°	3515.4	3908.7	4262.9	4590.0	4892.6	5166.5	5415.8	5655.7	5940.6	6184.7	6386.5
45°	4129.1	4523.0	4894.5	5237.4	5557.3	5965.3	6356.2	6707.2	6911.3	7071.9	7204.9
42.5°	4699.1	5112.0	5501.8	5989.3	6487.9	6870.9	7126.3	7356.2	7521.8	7639.4	7737.0
40°	5244.2	5716.1	6319.3	6834.7	7158.5	7454.4	7640.1	7807.7	7968.8	8135.3	8273.7
37.5°	5847.3	6520.0	6999.8	7368.7	7627.4	7845.1	8085.2	8321.3	8533.2	8790.6	9005.0
35°	6587.4	7083.3	7479.9	7745.1	8020.1	8324.8	8640.0	9003.1	9326.0	9693.4	10024.3
32.5°	7083.3	7508.9	7804.7	8139.7	8488.2	8937.8	9368.1	9912.1	10407.9	10926.9	11439.1
30°	7479.9	7804.7	8180.0	8590.8	9120.1	9710.8	10366.2	11107.3	11870.2	12629.1	13519.5
27.5°	7745.1	8139.7	8590.8	9181.4	9890.7	10652.0	11651.6	12684.1	14001.2	15156.4	17185.0
25°	8020.1	8488.2	9120.1	9890.7	10785.5	11929.1	13371.0	14949.8	17703.2	20335.6	25152.8
22.5°	8324.8	8937.8	9710.8	10652.0	11929.1	13603.3	15731.9	19286.3	25045.5	32552.3	41715.1
20°	8640.0	9368.1	10366.2	11651.6	13371.0	15731.9	19823.2	27984.8	38229.9	54203.4	69670.6
17.5°	9003.1	9912.1	11107.3	12684.1	14949.8	19286.3	27984.8	41283.1	60677.9	86261.9	111108.6
15°	9326.0	10407.9	11870.2	14001.2	17703.2	25045.5	38229.9	60677.9	91952.7	126473.0	162500.3
12.5°	9693.4	10926.9	12629.1	15156.4	20335.6	32552.3	54203.4	86261.9	126473.0	171250.6	211850.5
10°	10024.3	11439.1	13519.5	17185.0	25152.8	41715.1	69670.6	111108.6	162500.3	211850.5	258709.6
7.5°	10285.9	11845.3	14228.1	18810.7	29829.9	51784.1	87879.3	137265.5	192788.7	247242.6	298476.6
5°	10475.3	12139.9	14743.5	19997.1	33258.1	59207.3	101407.3	157231.4	215906.5	275052.5	329209.4
2.5°	10589.9	12318.5	15056.5	20719.6	35352.4	63761.4	109754.9	169652.8	230462.1	292157.7	349415.9
0°	10628.3	12378.4	15161.5	20962.2	36057.0	65297.0	112578.4	173873.2	235441.5	297932.9	356539.6
-2.5°	10589.9	12318.5	15056.5	20719.6	35352.4	63761.4	109754.9	169652.8	230462.1	292157.7	349415.9
-5°	10475.3	12139.9	14743.5	19997.1	33258.1	59207.3	101407.3	157231.4	215906.5	275052.5	329209.4
-7.5°	10285.9	11845.3	14228.1	18810.7	29829.9	51784.1	87879.3	137265.5	192788.7	247242.6	298476.6
-10°	10024.3	11439.1	13519.5	17185.0	25152.8	41715.1	69670.6	111108.6	162500.3	211850.5	258709.6
-12.5°	9693.4	10926.9	12629.1	15156.4	20335.6	32552.3	54203.4	86261.9	126473.0	171250.6	211850.5
-15°	9326.0	10407.9	11870.2	14001.2	17703.2	25045.5	38229.9	60677.9	91952.7	126473.0	162500.3
-17.5°	9003.1	9912.1	11107.3	12684.1	14949.8	19286.3	27984.8	41283.1	60677.9	86261.9	111108.6
-20°	8640.0	9368.1	10366.2	11651.6	13371.0	15731.9	19823.2	27984.8	38229.9	54203.4	69670.6



REPORT NUMBER: P1212220 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-1000R-57-90-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8324.8	8937.8	9710.8	10652.0	11929.1	13603.3	15731.9	19286.3	25045.5	32552.3	41715.1
-25°	8020.1	8488.2	9120.1	9890.7	10785.5	11929.1	13371.0	14949.8	17703.2	20335.6	25152.8
-27.5°	7745.1	8139.7	8590.8	9181.4	9890.7	10652.0	11651.6	12684.1	14001.2	15156.4	17185.0
-30°	7479.9	7804.7	8180.0	8590.8	9120.1	9710.8	10366.2	11107.3	11870.2	12629.1	13519.5
-32.5°	7083.3	7508.9	7804.7	8139.7	8488.2	8937.8	9368.1	9912.1	10407.9	10926.9	11439.1
-35°	6587.4	7083.3	7479.9	7745.1	8020.1	8324.8	8640.0	9003.1	9326.0	9693.4	10024.3
-37.5°	5847.3	6520.0	6999.8	7368.7	7627.4	7845.1	8085.2	8321.3	8533.2	8790.6	9005.0
-40°	5244.2	5716.1	6319.3	6834.7	7158.5	7454.4	7640.1	7807.7	7968.8	8135.3	8273.7
-42.5°	4699.1	5112.0	5501.8	5989.3	6487.9	6870.9	7126.3	7356.2	7521.8	7639.4	7737.0
-45°	4129.1	4523.0	4894.5	5237.4	5557.3	5965.3	6356.2	6707.2	6911.3	7071.9	7204.9
-47.5°	3515.4	3908.7	4262.9	4590.0	4892.6	5166.5	5415.8	5655.7	5940.6	6184.7	6386.5
-50°	2913.9	3247.2	3593.3	3917.7	4205.3	4465.0	4701.0	4909.7	5090.6	5245.3	5373.1
-52.5°	2360.3	2648.6	2927.4	3196.6	3475.2	3731.2	3963.5	4160.1	4330.4	4475.9	4596.0
-55°	1946.7	2145.3	2332.3	2555.0	2778.0	2982.6	3173.2	3363.5	3530.2	3672.5	3789.9
-57.5°	1603.6	1740.8	1882.3	2042.8	2191.4	2327.5	2477.4	2628.6	2760.9	2873.7	2966.7
-60°	1293.1	1411.7	1529.1	1639.1	1740.8	1834.5	1946.7	2046.6	2134.0	2208.5	2269.8
-62.5°	991.6	1097.4	1198.7	1293.1	1380.2	1462.2	1538.4	1606.2	1665.5	1715.9	1757.5
-65°	701.2	793.6	880.2	960.9	1035.5	1107.2	1171.9	1229.5	1279.8	1322.6	1357.8
-67.5°	478.3	538.4	594.6	646.9	707.0	767.6	822.3	870.9	913.3	949.4	979.1
-70°	299.6	338.5	374.8	413.2	455.7	494.5	529.6	560.7	587.8	610.9	629.8
-72.5°	163.3	184.8	207.5	236.9	264.0	288.6	310.9	330.6	347.8	362.5	374.5
-75°	71.2	81.3	98.4	114.3	128.9	142.2	154.2	164.9	174.1	182.0	188.5
-77.5°	34.7	40.2	45.4	50.1	54.5	58.5	62.1	65.3	68.1	70.5	72.4
-80°	15.7	17.7	19.6	21.4	23.0	24.5	25.8	27.0	28.0	28.9	29.6
-82.5°	7.3	7.6	8.0	8.3	8.6	8.9	9.1	9.3	9.5	9.6	9.8
-85°	4.4	4.5	4.5	4.6	4.7	4.7	4.8	4.8	4.9	4.9	4.9
-87.5°	2.7	2.8	2.9	2.9	3.0	3.0	3.1	3.1	3.2	3.2	3.2
-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: P1212220 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-3S-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°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.1
85°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.9	4.9	4.9	4.8
82.5°	9.9	9.9	10.0	10.0	10.0	9.9	9.9	9.8	9.6	9.5	9.3
80°	30.2	30.6	30.8	30.9	30.8	30.6	30.2	29.6	28.9	28.0	27.0
77.5°	73.9	75.0	75.7	75.9	75.7	75.0	73.9	72.4	70.5	68.1	65.3
75°	193.6	197.2	199.4	200.1	199.4	197.2	193.6	188.5	182.0	174.1	164.9
72.5°	383.9	390.6	394.7	396.0	394.7	390.6	383.9	374.5	362.5	347.8	330.6
70°	644.6	655.2	661.6	663.7	661.6	655.2	644.6	629.8	610.9	587.8	560.7
67.5°	1002.3	1018.9	1028.9	1032.2	1028.9	1018.9	1002.3	979.1	949.4	913.3	870.9
65°	1385.3	1405.0	1416.8	1420.8	1416.8	1405.0	1385.3	1357.8	1322.6	1279.8	1229.5
62.5°	1789.9	1813.2	1827.1	1831.8	1827.1	1813.2	1789.9	1757.5	1715.9	1665.5	1606.2
60°	2317.7	2352.0	2372.7	2379.6	2372.7	2352.0	2317.7	2269.8	2208.5	2134.0	2046.6
57.5°	3039.4	3091.6	3122.9	3133.4	3122.9	3091.6	3039.4	2966.7	2873.7	2760.9	2628.6
55°	3881.7	3947.6	3987.3	4000.5	3987.3	3947.6	3881.7	3789.9	3672.5	3530.2	3363.5
52.5°	4690.0	4757.6	4798.2	4811.8	4798.2	4757.6	4690.0	4596.0	4475.9	4330.4	4160.1
50°	5473.2	5545.2	5588.5	5603.0	5588.5	5545.2	5473.2	5373.1	5245.3	5090.6	4909.7
47.5°	6544.9	6658.8	6727.4	6750.3	6727.4	6658.8	6544.9	6386.5	6184.7	5940.6	5655.7
45°	7309.3	7384.4	7429.8	7444.9	7429.8	7384.4	7309.3	7204.9	7071.9	6911.3	6707.2
42.5°	7813.7	7868.9	7902.3	7913.4	7902.3	7868.9	7813.7	7737.0	7639.4	7521.8	7356.2
40°	8382.6	8461.2	8508.7	8524.6	8508.7	8461.2	8382.6	8273.7	8135.3	7968.8	7807.7
37.5°	9174.3	9296.5	9370.4	9395.1	9370.4	9296.5	9174.3	9005.0	8790.6	8533.2	8321.3
35°	10285.9	10475.3	10589.9	10628.3	10589.9	10475.3	10285.9	10024.3	9693.4	9326.0	9003.1
32.5°	11845.3	12139.9	12318.5	12378.4	12318.5	12139.9	11845.3	11439.1	10926.9	10407.9	9912.1
30°	14228.1	14743.5	15056.5	15161.5	15056.5	14743.5	14228.1	13519.5	12629.1	11870.2	11107.3
27.5°	18810.7	19997.1	20719.6	20962.2	20719.6	19997.1	18810.7	17185.0	15156.4	14001.2	12684.1
25°	29829.9	33258.1	35352.4	36057.0	35352.4	33258.1	29829.9	25152.8	20335.6	17703.2	14949.8
22.5°	51784.1	59207.3	63761.4	65297.0	63761.4	59207.3	51784.1	41715.1	32552.3	25045.5	19286.3
20°	87879.3	101407.3	109754.9	112578.4	109754.9	101407.3	87879.3	69670.6	54203.4	38229.9	27984.8
17.5°	137265.5	157231.4	169652.8	173873.2	169652.8	157231.4	137265.5	111108.6	86261.9	60677.9	41283.1
15°	192788.7	215906.5	230462.1	235441.5	230462.1	215906.5	192788.7	162500.3	126473.0	91952.7	60677.9
12.5°	247242.6	275052.5	292157.7	297932.9	292157.7	275052.5	247242.6	211850.5	171250.6	126473.0	86261.9
10°	298476.6	329209.4	349415.9	356539.6	349415.9	329209.4	298476.6	258709.6	211850.5	162500.3	111108.6
7.5°	342711.8	380279.7	404168.6	411765.7	404168.6	380279.7	342711.8	298476.6	247242.6	192788.7	137265.5
5°	380279.7	419927.5	439500.4	445763.7	439500.4	419927.5	380279.7	329209.4	275052.5	215906.5	157231.4
2.5°	404168.6	439500.4	464221.8	477651.8	464221.8	439500.4	404168.6	349415.9	292157.7	230462.1	169652.8
0°	411765.7	445763.7	477651.8	502449.3	477651.8	445763.7	411765.7	356539.6	297932.9	235441.5	173873.2
-2.5°	404168.6	439500.4	464221.8	477651.8	464221.8	439500.4	404168.6	349415.9	292157.7	230462.1	169652.8
-5°	380279.7	419927.5	439500.4	445763.7	439500.4	419927.5	380279.7	329209.4	275052.5	215906.5	157231.4
-7.5°	342711.8	380279.7	404168.6	411765.7	404168.6	380279.7	342711.8	298476.6	247242.6	192788.7	137265.5
-10°	298476.6	329209.4	349415.9	356539.6	349415.9	329209.4	298476.6	258709.6	211850.5	162500.3	111108.6
-12.5°	247242.6	275052.5	292157.7	297932.9	292157.7	275052.5	247242.6	211850.5	171250.6	126473.0	86261.9
-15°	192788.7	215906.5	230462.1	235441.5	230462.1	215906.5	192788.7	162500.3	126473.0	91952.7	60677.9
-17.5°	137265.5	157231.4	169652.8	173873.2	169652.8	157231.4	137265.5	111108.6	86261.9	60677.9	41283.1
-20°	87879.3	101407.3	109754.9	112578.4	109754.9	101407.3	87879.3	69670.6	54203.4	38229.9	27984.8



REPORT NUMBER: P1212220 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	51784.1	59207.3	63761.4	65297.0	63761.4	59207.3	51784.1	41715.1	32552.3	25045.5	19286.3
-25°	29829.9	33258.1	35352.4	36057.0	35352.4	33258.1	29829.9	25152.8	20335.6	17703.2	14949.8
-27.5°	18810.7	19997.1	20719.6	20962.2	20719.6	19997.1	18810.7	17185.0	15156.4	14001.2	12684.1
-30°	14228.1	14743.5	15056.5	15161.5	15056.5	14743.5	14228.1	13519.5	12629.1	11870.2	11107.3
-32.5°	11845.3	12139.9	12318.5	12378.4	12318.5	12139.9	11845.3	11439.1	10926.9	10407.9	9912.1
-35°	10285.9	10475.3	10589.9	10628.3	10589.9	10475.3	10285.9	10024.3	9693.4	9326.0	9003.1
-37.5°	9174.3	9296.5	9370.4	9395.1	9370.4	9296.5	9174.3	9005.0	8790.6	8533.2	8321.3
-40°	8382.6	8461.2	8508.7	8524.6	8508.7	8461.2	8382.6	8273.7	8135.3	7968.8	7807.7
-42.5°	7813.7	7868.9	7902.3	7913.4	7902.3	7868.9	7813.7	7737.0	7639.4	7521.8	7356.2
-45°	7309.3	7384.4	7429.8	7444.9	7429.8	7384.4	7309.3	7204.9	7071.9	6911.3	6707.2
-47.5°	6544.9	6658.8	6727.4	6750.3	6727.4	6658.8	6544.9	6386.5	6184.7	5940.6	5655.7
-50°	5473.2	5545.2	5588.5	5603.0	5588.5	5545.2	5473.2	5373.1	5245.3	5090.6	4909.7
-52.5°	4690.0	4757.6	4798.2	4811.8	4798.2	4757.6	4690.0	4596.0	4475.9	4330.4	4160.1
-55°	3881.7	3947.6	3987.3	4000.5	3987.3	3947.6	3881.7	3789.9	3672.5	3530.2	3363.5
-57.5°	3039.4	3091.6	3122.9	3133.4	3122.9	3091.6	3039.4	2966.7	2873.7	2760.9	2628.6
-60°	2317.7	2352.0	2372.7	2379.6	2372.7	2352.0	2317.7	2269.8	2208.5	2134.0	2046.6
-62.5°	1789.9	1813.2	1827.1	1831.8	1827.1	1813.2	1789.9	1757.5	1715.9	1665.5	1606.2
-65°	1385.3	1405.0	1416.8	1420.8	1416.8	1405.0	1385.3	1357.8	1322.6	1279.8	1229.5
-67.5°	1002.3	1018.9	1028.9	1032.2	1028.9	1018.9	1002.3	979.1	949.4	913.3	870.9
-70°	644.6	655.2	661.6	663.7	661.6	655.2	644.6	629.8	610.9	587.8	560.7
-72.5°	383.9	390.6	394.7	396.0	394.7	390.6	383.9	374.5	362.5	347.8	330.6
-75°	193.6	197.2	199.4	200.1	199.4	197.2	193.6	188.5	182.0	174.1	164.9
-77.5°	73.9	75.0	75.7	75.9	75.7	75.0	73.9	72.4	70.5	68.1	65.3
-80°	30.2	30.6	30.8	30.9	30.8	30.6	30.2	29.6	28.9	28.0	27.0
-82.5°	9.9	9.9	10.0	10.0	10.0	9.9	9.9	9.8	9.6	9.5	9.3
-85°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.9	4.9	4.9	4.8
-87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.1
-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: P1212220 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-3S-HEG

**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°	3.1	3.0	3.0	2.9	2.9	2.8	2.7	2.6	2.5	2.4	2.3
85°	4.8	4.7	4.7	4.6	4.5	4.5	4.4	4.3	4.2	4.1	4.0
82.5°	9.1	8.9	8.6	8.3	8.0	7.6	7.3	6.9	6.5	6.0	5.6
80°	25.8	24.5	23.0	21.4	19.6	17.7	15.7	13.5	11.2	9.7	9.1
77.5°	62.1	58.5	54.5	50.1	45.4	40.2	34.7	30.0	27.1	24.1	20.9
75°	154.2	142.2	128.9	114.3	98.4	81.3	71.2	64.2	56.7	48.9	40.7
72.5°	310.9	288.6	264.0	236.9	207.5	184.8	163.3	140.6	116.5	91.3	71.9
70°	529.6	494.5	455.7	413.2	374.8	338.5	299.6	258.4	214.9	180.5	150.2
67.5°	822.3	767.6	707.0	646.9	594.6	538.4	478.3	414.6	360.5	308.9	254.9
65°	1171.9	1107.2	1035.5	960.9	880.2	793.6	701.2	619.8	544.8	466.1	387.2
62.5°	1538.4	1462.2	1380.2	1293.1	1198.7	1097.4	991.6	883.2	769.1	653.4	562.7
60°	1946.7	1834.5	1740.8	1639.1	1529.1	1411.7	1293.1	1167.5	1035.5	904.2	767.6
57.5°	2477.4	2327.5	2191.4	2042.8	1882.3	1740.8	1603.6	1458.8	1312.8	1162.3	1007.0
55°	3173.2	2982.6	2778.0	2555.0	2332.3	2145.3	1946.7	1760.8	1595.8	1423.6	1254.1
52.5°	3963.5	3731.2	3475.2	3196.6	2927.4	2648.6	2360.3	2134.0	1896.9	1695.1	1502.5
50°	4701.0	4465.0	4205.3	3917.7	3593.3	3247.2	2913.9	2578.9	2269.8	2004.6	1755.2
47.5°	5415.8	5166.5	4892.6	4590.0	4262.9	3908.7	3515.4	3106.4	2731.4	2352.0	2058.9
45°	6356.2	5965.3	5557.3	5237.4	4894.5	4523.0	4129.1	3696.7	3236.7	2808.3	2379.6
42.5°	7126.3	6870.9	6487.9	5989.3	5501.8	5112.0	4699.1	4259.3	3788.1	3281.7	2808.3
40°	7640.1	7454.4	7158.5	6834.7	6319.3	5716.1	5244.2	4788.0	4302.9	3788.1	3236.7
37.5°	8085.2	7845.1	7627.4	7368.7	6999.8	6520.0	5847.3	5288.6	4788.0	4259.3	3696.7
35°	8640.0	8324.8	8020.1	7745.1	7479.9	7083.3	6587.4	5847.3	5244.2	4699.1	4129.1
32.5°	9368.1	8937.8	8488.2	8139.7	7804.7	7508.9	7083.3	6520.0	5716.1	5112.0	4523.0
30°	10366.2	9710.8	9120.1	8590.8	8180.0	7804.7	7479.9	6999.8	6319.3	5501.8	4894.5
27.5°	11651.6	10652.0	9890.7	9181.4	8590.8	8139.7	7745.1	7368.7	6834.7	5989.3	5237.4
25°	13371.0	11929.1	10785.5	9890.7	9120.1	8488.2	8020.1	7627.4	7158.5	6487.9	5557.3
22.5°	15731.9	13603.3	11929.1	10652.0	9710.8	8937.8	8324.8	7845.1	7454.4	6870.9	5965.3
20°	19823.2	15731.9	13371.0	11651.6	10366.2	9368.1	8640.0	8085.2	7640.1	7126.3	6356.2
17.5°	27984.8	19286.3	14949.8	12684.1	11107.3	9912.1	9003.1	8321.3	7807.7	7356.2	6707.2
15°	38229.9	25045.5	17703.2	14001.2	11870.2	10407.9	9326.0	8533.2	7968.8	7521.8	6911.3
12.5°	54203.4	32552.3	20335.6	15156.4	12629.1	10926.9	9693.4	8790.6	8135.3	7639.4	7071.9
10°	69670.6	41715.1	25152.8	17185.0	13519.5	11439.1	10024.3	9005.0	8273.7	7737.0	7204.9
7.5°	87879.3	51784.1	29829.9	18810.7	14228.1	11845.3	10285.9	9174.3	8382.6	7813.7	7309.3
5°	101407.3	59207.3	33258.1	19997.1	14743.5	12139.9	10475.3	9296.5	8461.2	7868.9	7384.4
2.5°	109754.9	63761.4	35352.4	20719.6	15056.5	12318.5	10589.9	9370.4	8508.7	7902.3	7429.8
0°	112578.4	65297.0	36057.0	20962.2	15161.5	12378.4	10628.3	9395.1	8524.6	7913.4	7444.9
-2.5°	109754.9	63761.4	35352.4	20719.6	15056.5	12318.5	10589.9	9370.4	8508.7	7902.3	7429.8
-5°	101407.3	59207.3	33258.1	19997.1	14743.5	12139.9	10475.3	9296.5	8461.2	7868.9	7384.4
-7.5°	87879.3	51784.1	29829.9	18810.7	14228.1	11845.3	10285.9	9174.3	8382.6	7813.7	7309.3
-10°	69670.6	41715.1	25152.8	17185.0	13519.5	11439.1	10024.3	9005.0	8273.7	7737.0	7204.9
-12.5°	54203.4	32552.3	20335.6	15156.4	12629.1	10926.9	9693.4	8790.6	8135.3	7639.4	7071.9
-15°	38229.9	25045.5	17703.2	14001.2	11870.2	10407.9	9326.0	8533.2	7968.8	7521.8	6911.3
-17.5°	27984.8	19286.3	14949.8	12684.1	11107.3	9912.1	9003.1	8321.3	7807.7	7356.2	6707.2
-20°	19823.2	15731.9	13371.0	11651.6	10366.2	9368.1	8640.0	8085.2	7640.1	7126.3	6356.2



REPORT NUMBER: P1212220 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	15731.9	13603.3	11929.1	10652.0	9710.8	8937.8	8324.8	7845.1	7454.4	6870.9	5965.3
-25°	13371.0	11929.1	10785.5	9890.7	9120.1	8488.2	8020.1	7627.4	7158.5	6487.9	5557.3
-27.5°	11651.6	10652.0	9890.7	9181.4	8590.8	8139.7	7745.1	7368.7	6834.7	5989.3	5237.4
-30°	10366.2	9710.8	9120.1	8590.8	8180.0	7804.7	7479.9	6999.8	6319.3	5501.8	4894.5
-32.5°	9368.1	8937.8	8488.2	8139.7	7804.7	7508.9	7083.3	6520.0	5716.1	5112.0	4523.0
-35°	8640.0	8324.8	8020.1	7745.1	7479.9	7083.3	6587.4	5847.3	5244.2	4699.1	4129.1
-37.5°	8085.2	7845.1	7627.4	7368.7	6999.8	6520.0	5847.3	5288.6	4788.0	4259.3	3696.7
-40°	7640.1	7454.4	7158.5	6834.7	6319.3	5716.1	5244.2	4788.0	4302.9	3788.1	3236.7
-42.5°	7126.3	6870.9	6487.9	5989.3	5501.8	5112.0	4699.1	4259.3	3788.1	3281.7	2808.3
-45°	6356.2	5965.3	5557.3	5237.4	4894.5	4523.0	4129.1	3696.7	3236.7	2808.3	2379.6
-47.5°	5415.8	5166.5	4892.6	4590.0	4262.9	3908.7	3515.4	3106.4	2731.4	2352.0	2058.9
-50°	4701.0	4465.0	4205.3	3917.7	3593.3	3247.2	2913.9	2578.9	2269.8	2004.6	1755.2
-52.5°	3963.5	3731.2	3475.2	3196.6	2927.4	2648.6	2360.3	2134.0	1896.9	1695.1	1502.5
-55°	3173.2	2982.6	2778.0	2555.0	2332.3	2145.3	1946.7	1760.8	1595.8	1423.6	1254.1
-57.5°	2477.4	2327.5	2191.4	2042.8	1882.3	1740.8	1603.6	1458.8	1312.8	1162.3	1007.0
-60°	1946.7	1834.5	1740.8	1639.1	1529.1	1411.7	1293.1	1167.5	1035.5	904.2	767.6
-62.5°	1538.4	1462.2	1380.2	1293.1	1198.7	1097.4	991.6	883.2	769.1	653.4	562.7
-65°	1171.9	1107.2	1035.5	960.9	880.2	793.6	701.2	619.8	544.8	466.1	387.2
-67.5°	822.3	767.6	707.0	646.9	594.6	538.4	478.3	414.6	360.5	308.9	254.9
-70°	529.6	494.5	455.7	413.2	374.8	338.5	299.6	258.4	214.9	180.5	150.2
-72.5°	310.9	288.6	264.0	236.9	207.5	184.8	163.3	140.6	116.5	91.3	71.9
-75°	154.2	142.2	128.9	114.3	98.4	81.3	71.2	64.2	56.7	48.9	40.7
-77.5°	62.1	58.5	54.5	50.1	45.4	40.2	34.7	30.0	27.1	24.1	20.9
-80°	25.8	24.5	23.0	21.4	19.6	17.7	15.7	13.5	11.2	9.7	9.1
-82.5°	9.1	8.9	8.6	8.3	8.0	7.6	7.3	6.9	6.5	6.0	5.6
-85°	4.8	4.7	4.7	4.6	4.5	4.5	4.4	4.3	4.2	4.1	4.0
-87.5°	3.1	3.0	3.0	2.9	2.9	2.8	2.7	2.6	2.5	2.4	2.3
-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: P1212220 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-3S-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°	2.2	2.1	2.0	1.9	1.8	1.6	1.5	1.4	1.3	1.1	1.0
85°	3.9	3.8	3.7	3.5	3.4	3.3	3.0	2.8	2.5	2.3	2.0
82.5°	5.1	4.9	4.7	4.5	4.3	4.1	3.9	3.8	3.5	3.3	3.0
80°	8.5	7.8	7.1	6.4	5.7	5.0	4.7	4.5	4.2	3.9	3.6
77.5°	17.6	14.2	10.6	9.3	8.4	7.4	6.5	5.5	4.8	4.5	4.1
75°	32.2	27.4	23.1	18.7	14.1	9.9	8.7	7.6	6.4	5.2	4.6
72.5°	61.9	51.5	40.8	30.3	25.0	19.6	14.0	9.6	8.2	6.8	5.4
70°	118.6	85.8	67.2	54.5	41.5	29.6	23.3	16.8	10.2	8.4	6.8
67.5°	199.3	162.3	124.2	84.8	64.5	49.5	34.1	25.1	17.7	10.2	8.2
65°	324.7	259.9	195.5	151.8	106.9	70.5	53.5	36.1	25.1	16.8	9.6
62.5°	468.5	377.7	304.0	228.1	168.6	118.1	72.5	53.5	34.1	23.3	14.0
60°	636.1	529.6	419.7	330.6	245.9	174.1	118.1	70.5	49.5	29.6	19.6
57.5°	853.0	693.8	566.5	444.2	339.5	245.9	168.6	106.9	64.5	41.5	25.0
55°	1078.7	904.7	728.1	578.8	444.2	330.6	228.1	151.8	84.8	54.5	30.3
52.5°	1309.6	1115.5	922.0	728.1	566.5	419.7	304.0	195.5	124.2	67.2	40.8
50°	1542.2	1328.2	1115.5	904.7	693.8	529.6	377.7	259.9	162.3	85.8	51.5
47.5°	1775.3	1542.2	1309.6	1078.7	853.0	636.1	468.5	324.7	199.3	118.6	61.9
45°	2058.9	1755.2	1502.5	1254.1	1007.0	767.6	562.7	387.2	254.9	150.2	71.9
42.5°	2352.0	2004.6	1695.1	1423.6	1162.3	904.2	653.4	466.1	308.9	180.5	91.3
40°	2731.4	2269.8	1896.9	1595.8	1312.8	1035.5	769.1	544.8	360.5	214.9	116.5
37.5°	3106.4	2578.9	2134.0	1760.8	1458.8	1167.5	883.2	619.8	414.6	258.4	140.6
35°	3515.4	2913.9	2360.3	1946.7	1603.6	1293.1	991.6	701.2	478.3	299.6	163.3
32.5°	3908.7	3247.2	2648.6	2145.3	1740.8	1411.7	1097.4	793.6	538.4	338.5	184.8
30°	4262.9	3593.3	2927.4	2332.3	1882.3	1529.1	1198.7	880.2	594.6	374.8	207.5
27.5°	4590.0	3917.7	3196.6	2555.0	2042.8	1639.1	1293.1	960.9	646.9	413.2	236.9
25°	4892.6	4205.3	3475.2	2778.0	2191.4	1740.8	1380.2	1035.5	707.0	455.7	264.0
22.5°	5166.5	4465.0	3731.2	2982.6	2327.5	1834.5	1462.2	1107.2	767.6	494.5	288.6
20°	5415.8	4701.0	3963.5	3173.2	2477.4	1946.7	1538.4	1171.9	822.3	529.6	310.9
17.5°	5655.7	4909.7	4160.1	3363.5	2628.6	2046.6	1606.2	1229.5	870.9	560.7	330.6
15°	5940.6	5090.6	4330.4	3530.2	2760.9	2134.0	1665.5	1279.8	913.3	587.8	347.8
12.5°	6184.7	5245.3	4475.9	3672.5	2873.7	2208.5	1715.9	1322.6	949.4	610.9	362.5
10°	6386.5	5373.1	4596.0	3789.9	2966.7	2269.8	1757.5	1357.8	979.1	629.8	374.5
7.5°	6544.9	5473.2	4690.0	3881.7	3039.4	2317.7	1789.9	1385.3	1002.3	644.6	383.9
5°	6658.8	5545.2	4757.6	3947.6	3091.6	2352.0	1813.2	1405.0	1018.9	655.2	390.6
2.5°	6727.4	5588.5	4798.2	3987.3	3122.9	2372.7	1827.1	1416.8	1028.9	661.6	394.7
0°	6750.3	5603.0	4811.8	4000.5	3133.4	2379.6	1831.8	1420.8	1032.2	663.7	396.0
-2.5°	6727.4	5588.5	4798.2	3987.3	3122.9	2372.7	1827.1	1416.8	1028.9	661.6	394.7
-5°	6658.8	5545.2	4757.6	3947.6	3091.6	2352.0	1813.2	1405.0	1018.9	655.2	390.6
-7.5°	6544.9	5473.2	4690.0	3881.7	3039.4	2317.7	1789.9	1385.3	1002.3	644.6	383.9
-10°	6386.5	5373.1	4596.0	3789.9	2966.7	2269.8	1757.5	1357.8	979.1	629.8	374.5
-12.5°	6184.7	5245.3	4475.9	3672.5	2873.7	2208.5	1715.9	1322.6	949.4	610.9	362.5
-15°	5940.6	5090.6	4330.4	3530.2	2760.9	2134.0	1665.5	1279.8	913.3	587.8	347.8
-17.5°	5655.7	4909.7	4160.1	3363.5	2628.6	2046.6	1606.2	1229.5	870.9	560.7	330.6
-20°	5415.8	4701.0	3963.5	3173.2	2477.4	1946.7	1538.4	1171.9	822.3	529.6	310.9



REPORT NUMBER: P1212220 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	5166.5	4465.0	3731.2	2982.6	2327.5	1834.5	1462.2	1107.2	767.6	494.5	288.6
-25°	4892.6	4205.3	3475.2	2778.0	2191.4	1740.8	1380.2	1035.5	707.0	455.7	264.0
-27.5°	4590.0	3917.7	3196.6	2555.0	2042.8	1639.1	1293.1	960.9	646.9	413.2	236.9
-30°	4262.9	3593.3	2927.4	2332.3	1882.3	1529.1	1198.7	880.2	594.6	374.8	207.5
-32.5°	3908.7	3247.2	2648.6	2145.3	1740.8	1411.7	1097.4	793.6	538.4	338.5	184.8
-35°	3515.4	2913.9	2360.3	1946.7	1603.6	1293.1	991.6	701.2	478.3	299.6	163.3
-37.5°	3106.4	2578.9	2134.0	1760.8	1458.8	1167.5	883.2	619.8	414.6	258.4	140.6
-40°	2731.4	2269.8	1896.9	1595.8	1312.8	1035.5	769.1	544.8	360.5	214.9	116.5
-42.5°	2352.0	2004.6	1695.1	1423.6	1162.3	904.2	653.4	466.1	308.9	180.5	91.3
-45°	2058.9	1755.2	1502.5	1254.1	1007.0	767.6	562.7	387.2	254.9	150.2	71.9
-47.5°	1775.3	1542.2	1309.6	1078.7	853.0	636.1	468.5	324.7	199.3	118.6	61.9
-50°	1542.2	1328.2	1115.5	904.7	693.8	529.6	377.7	259.9	162.3	85.8	51.5
-52.5°	1309.6	1115.5	922.0	728.1	566.5	419.7	304.0	195.5	124.2	67.2	40.8
-55°	1078.7	904.7	728.1	578.8	444.2	330.6	228.1	151.8	84.8	54.5	30.3
-57.5°	853.0	693.8	566.5	444.2	339.5	245.9	168.6	106.9	64.5	41.5	25.0
-60°	636.1	529.6	419.7	330.6	245.9	174.1	118.1	70.5	49.5	29.6	19.6
-62.5°	468.5	377.7	304.0	228.1	168.6	118.1	72.5	53.5	34.1	23.3	14.0
-65°	324.7	259.9	195.5	151.8	106.9	70.5	53.5	36.1	25.1	16.8	9.6
-67.5°	199.3	162.3	124.2	84.8	64.5	49.5	34.1	25.1	17.7	10.2	8.2
-70°	118.6	85.8	67.2	54.5	41.5	29.6	23.3	16.8	10.2	8.4	6.8
-72.5°	61.9	51.5	40.8	30.3	25.0	19.6	14.0	9.6	8.2	6.8	5.4
-75°	32.2	27.4	23.1	18.7	14.1	9.9	8.7	7.6	6.4	5.2	4.6
-77.5°	17.6	14.2	10.6	9.3	8.4	7.4	6.5	5.5	4.8	4.5	4.1
-80°	8.5	7.8	7.1	6.4	5.7	5.0	4.7	4.5	4.2	3.9	3.6
-82.5°	5.1	4.9	4.7	4.5	4.3	4.1	3.9	3.8	3.5	3.3	3.0
-85°	3.9	3.8	3.7	3.5	3.4	3.3	3.0	2.8	2.5	2.3	2.0
-87.5°	2.2	2.1	2.0	1.9	1.8	1.6	1.5	1.4	1.3	1.1	1.0
-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: P1212220 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-3S-HEG

**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°	0.9	0.7	0.6	0.4	0.3	0.1	0.0
85°	1.7	1.4	1.1	0.9	0.6	0.3	0.0
82.5°	2.6	2.1	1.7	1.3	0.9	0.4	0.0
80°	3.4	2.8	2.3	1.7	1.1	0.6	0.0
77.5°	3.8	3.4	2.8	2.1	1.4	0.7	0.0
75°	4.2	3.8	3.4	2.6	1.7	0.9	0.0
72.5°	4.6	4.1	3.6	3.0	2.0	1.0	0.0
70°	5.2	4.5	3.9	3.3	2.3	1.1	0.0
67.5°	6.4	4.8	4.2	3.5	2.5	1.3	0.0
65°	7.6	5.5	4.5	3.8	2.8	1.4	0.0
62.5°	8.7	6.5	4.7	3.9	3.0	1.5	0.0
60°	9.9	7.4	5.0	4.1	3.3	1.6	0.0
57.5°	14.1	8.4	5.7	4.3	3.4	1.8	0.0
55°	18.7	9.3	6.4	4.5	3.5	1.9	0.0
52.5°	23.1	10.6	7.1	4.7	3.7	2.0	0.0
50°	27.4	14.2	7.8	4.9	3.8	2.1	0.0
47.5°	32.2	17.6	8.5	5.1	3.9	2.2	0.0
45°	40.7	20.9	9.1	5.6	4.0	2.3	0.0
42.5°	48.9	24.1	9.7	6.0	4.1	2.4	0.0
40°	56.7	27.1	11.2	6.5	4.2	2.5	0.0
37.5°	64.2	30.0	13.5	6.9	4.3	2.6	0.0
35°	71.2	34.7	15.7	7.3	4.4	2.7	0.0
32.5°	81.3	40.2	17.7	7.6	4.5	2.8	0.0
30°	98.4	45.4	19.6	8.0	4.5	2.9	0.0
27.5°	114.3	50.1	21.4	8.3	4.6	2.9	0.0
25°	128.9	54.5	23.0	8.6	4.7	3.0	0.0
22.5°	142.2	58.5	24.5	8.9	4.7	3.0	0.0
20°	154.2	62.1	25.8	9.1	4.8	3.1	0.0
17.5°	164.9	65.3	27.0	9.3	4.8	3.1	0.0
15°	174.1	68.1	28.0	9.5	4.9	3.2	0.0
12.5°	182.0	70.5	28.9	9.6	4.9	3.2	0.0
10°	188.5	72.4	29.6	9.8	4.9	3.2	0.0
7.5°	193.6	73.9	30.2	9.9	5.0	3.3	0.0
5°	197.2	75.0	30.6	9.9	5.0	3.3	0.0
2.5°	199.4	75.7	30.8	10.0	5.0	3.3	0.0
0°	200.1	75.9	30.9	10.0	5.0	3.3	0.0
-2.5°	199.4	75.7	30.8	10.0	5.0	3.3	0.0
-5°	197.2	75.0	30.6	9.9	5.0	3.3	0.0
-7.5°	193.6	73.9	30.2	9.9	5.0	3.3	0.0
-10°	188.5	72.4	29.6	9.8	4.9	3.2	0.0
-12.5°	182.0	70.5	28.9	9.6	4.9	3.2	0.0
-15°	174.1	68.1	28.0	9.5	4.9	3.2	0.0
-17.5°	164.9	65.3	27.0	9.3	4.8	3.1	0.0
-20°	154.2	62.1	25.8	9.1	4.8	3.1	0.0



REPORT NUMBER: P1212220 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-57-90-3S-HEG

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	142.2	58.5	24.5	8.9	4.7	3.0	0.0
-25°	128.9	54.5	23.0	8.6	4.7	3.0	0.0
-27.5°	114.3	50.1	21.4	8.3	4.6	2.9	0.0
-30°	98.4	45.4	19.6	8.0	4.5	2.9	0.0
-32.5°	81.3	40.2	17.7	7.6	4.5	2.8	0.0
-35°	71.2	34.7	15.7	7.3	4.4	2.7	0.0
-37.5°	64.2	30.0	13.5	6.9	4.3	2.6	0.0
-40°	56.7	27.1	11.2	6.5	4.2	2.5	0.0
-42.5°	48.9	24.1	9.7	6.0	4.1	2.4	0.0
-45°	40.7	20.9	9.1	5.6	4.0	2.3	0.0
-47.5°	32.2	17.6	8.5	5.1	3.9	2.2	0.0
-50°	27.4	14.2	7.8	4.9	3.8	2.1	0.0
-52.5°	23.1	10.6	7.1	4.7	3.7	2.0	0.0
-55°	18.7	9.3	6.4	4.5	3.5	1.9	0.0
-57.5°	14.1	8.4	5.7	4.3	3.4	1.8	0.0
-60°	9.9	7.4	5.0	4.1	3.3	1.6	0.0
-62.5°	8.7	6.5	4.7	3.9	3.0	1.5	0.0
-65°	7.6	5.5	4.5	3.8	2.8	1.4	0.0
-67.5°	6.4	4.8	4.2	3.5	2.5	1.3	0.0
-70°	5.2	4.5	3.9	3.3	2.3	1.1	0.0
-72.5°	4.6	4.1	3.6	3.0	2.0	1.0	0.0
-75°	4.2	3.8	3.4	2.6	1.7	0.9	0.0
-77.5°	3.8	3.4	2.8	2.1	1.4	0.7	0.0
-80°	3.4	2.8	2.3	1.7	1.1	0.6	0.0
-82.5°	2.6	2.1	1.7	1.3	0.9	0.4	0.0
-85°	1.7	1.4	1.1	0.9	0.6	0.3	0.0
-87.5°	0.9	0.7	0.6	0.4	0.3	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)