

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: EPHEBUS

Report Number: P1212106 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-40-90-1S-HEG**

Issue Date: 11/14/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1212106 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/14/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: EPHESUS  
Catalog Number: EPH-LS12-1000R-40-90-1S-HEG  
Description: EPHESUS LS12 LUMINAIRE  
(12) 4000K, 90 CRI LEDS AND 1S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

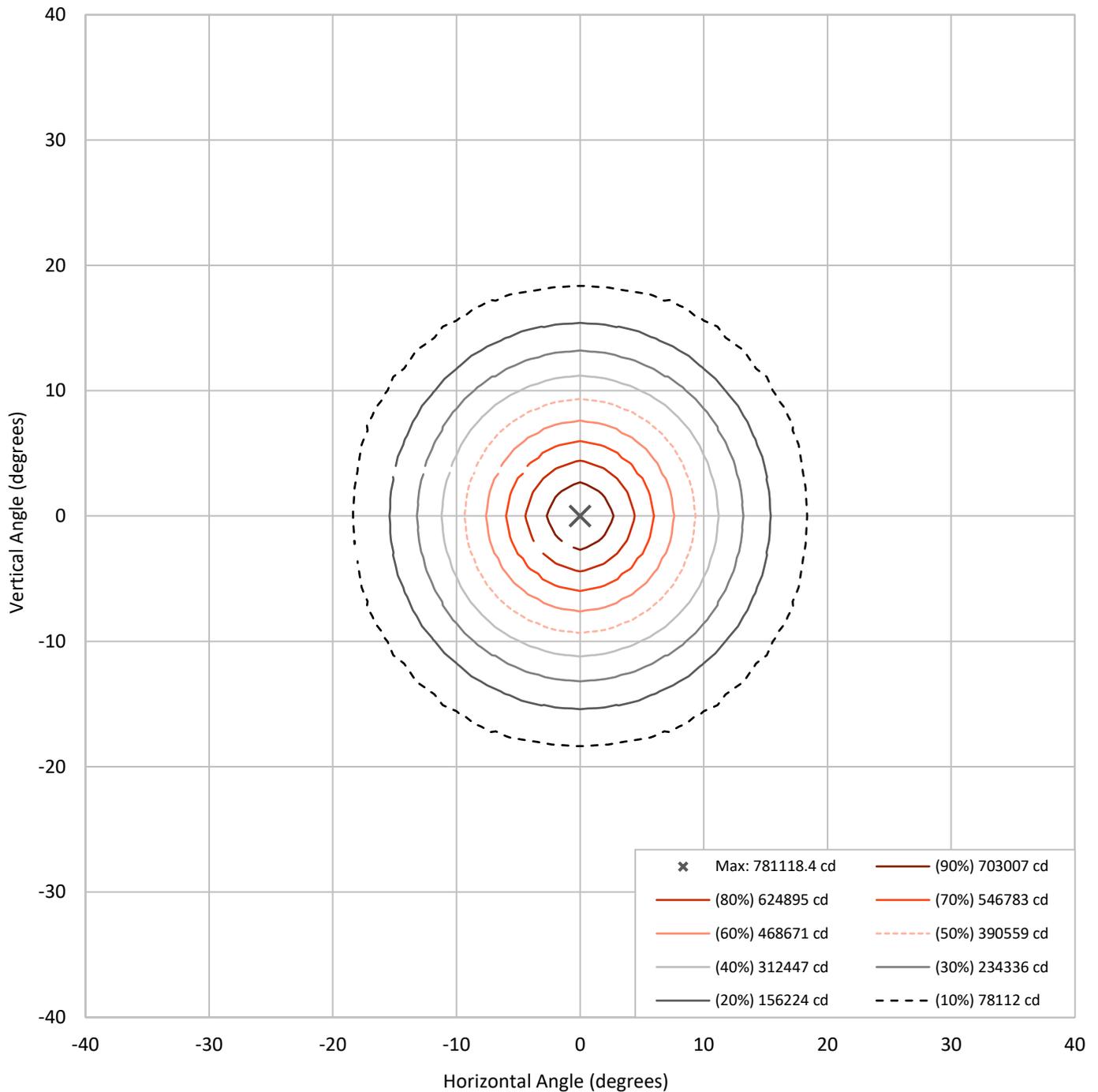
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	123354 lumens	Max Intensity:	781118.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	112.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	18.7°H x 18.7°V	Field Angle (10%):	36.7°H x 36.7°V
Beam Lumens:	44085.1 lumens	Field Lumens:	91563.5 lumens
Beam Efficiency:	35.7%	Field Efficiency:	74.2%
Input Watts (W):	1101.3		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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### Iso-Candela Plot





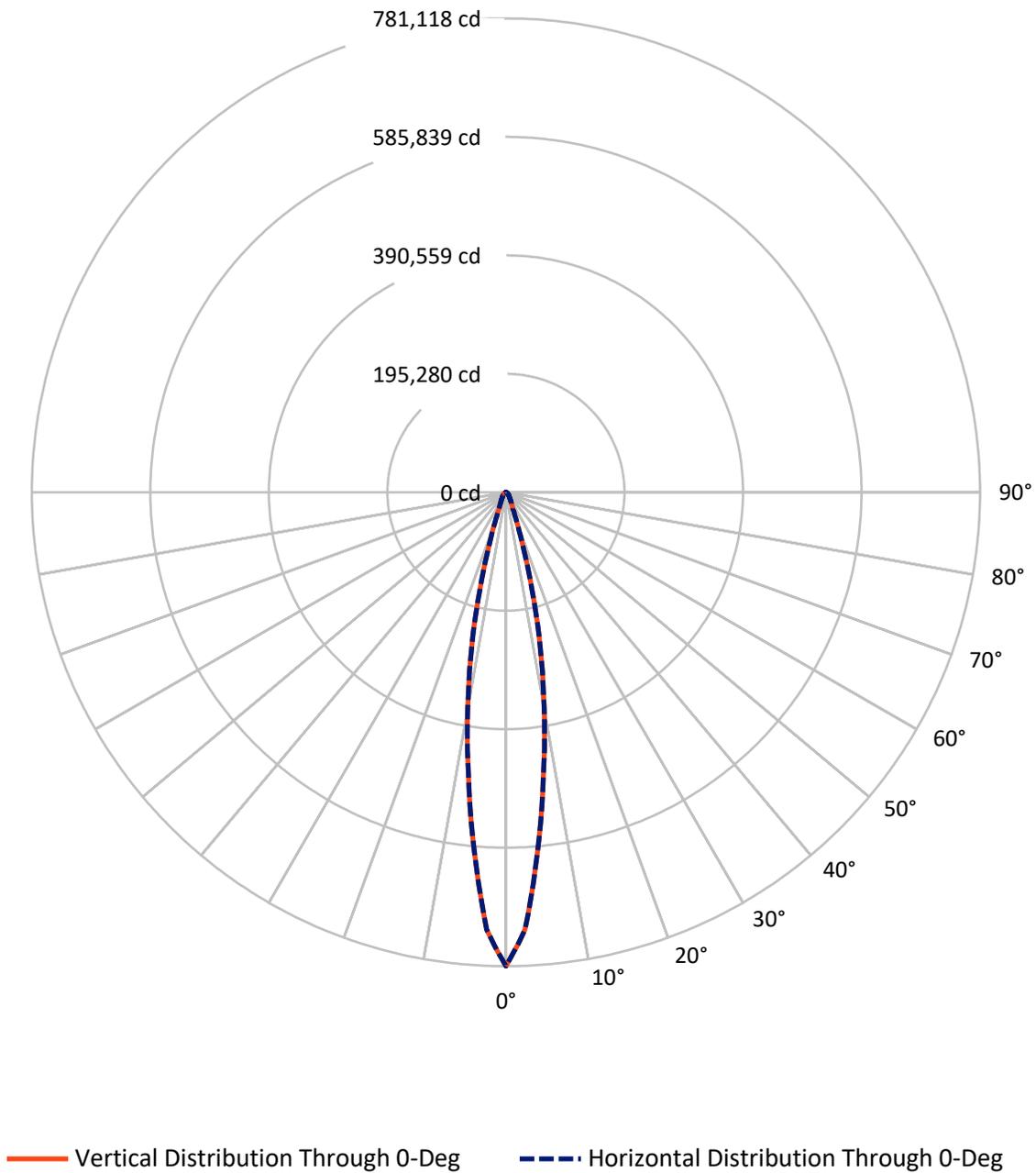
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### Lumen Table

90	0.2	1.3		4.6		11.2		14.6		11.2		4.6		1.3		0.2			
80	0.2	1.3		4.6		11.2		14.6		11.2		4.6		1.3		0.2			
70	0.5	0.7	2.8	7.8	15.5	24.2	31.8	36.1	36.1	31.8	24.2	15.5	7.8	2.8	0.7	0.5			
60		2.1	9.0	22.7	42.0	65.7	86.7	98.5	98.5	86.7	65.7	42.0	22.7	9.0	2.1				
50	1.5	4.8	18.6	44.8	85.2	132.5	175.0	198.1	198.1	175.0	132.5	85.2	44.8	18.6	4.8	1.5			
40		8.3	29.8	73.8	140.7	209.4	274.6	325.3	325.3	274.6	209.4	140.7	73.8	29.8	8.3				
30	3.2	11.7	42.2	104.1	189.5	306.3	500.1	731.4	731.4	500.1	306.3	189.5	104.1	42.2	11.7	3.2			
20		14.4	52.3	129.1	233.8	470.6	1524.6	4545.5	4545.5	1524.6	470.6	233.8	129.1	52.3	14.4				
10	4.0	15.8	57.6	141.5	269.0	669.7	4432.2	14198.6	14198.6	4432.2	669.7	269.0	141.5	57.6	15.8	4.0			
0		15.8	57.6	141.5	269.0	669.7	4432.2	14198.6	14198.6	4432.2	669.7	269.0	141.5	57.6	15.8				
-10	3.2	14.4	52.3	129.1	233.8	470.6	1524.6	4545.5	4545.5	1524.6	470.6	233.8	129.1	52.3	14.4	3.2			
-20		11.7	42.2	104.1	189.5	306.3	500.1	731.4	731.4	500.1	306.3	189.5	104.1	42.2	11.7				
-30	1.5	8.3	29.8	73.8	140.7	209.4	274.6	325.3	325.3	274.6	209.4	140.7	73.8	29.8	8.3	1.5			
-40		4.8	18.6	44.8	85.2	132.5	175.0	198.1	198.1	175.0	132.5	85.2	44.8	18.6	4.8				
-50	0.5	2.1	9.0	22.7	42.0	65.7	86.7	98.5	98.5	86.7	65.7	42.0	22.7	9.0	2.1	0.5			
-60		0.7	2.8	7.8	15.5	24.2	31.8	36.1	36.1	31.8	24.2	15.5	7.8	2.8	0.7				
-70	0.2	1.3		4.6		11.2		14.6		11.2		4.6		1.3		0.2			
-80		1.3		4.6		11.2		14.6		11.2		4.6		1.3					
-90	0.2	1.3		4.6		11.2		14.6		11.2		4.6		1.3		0.2			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

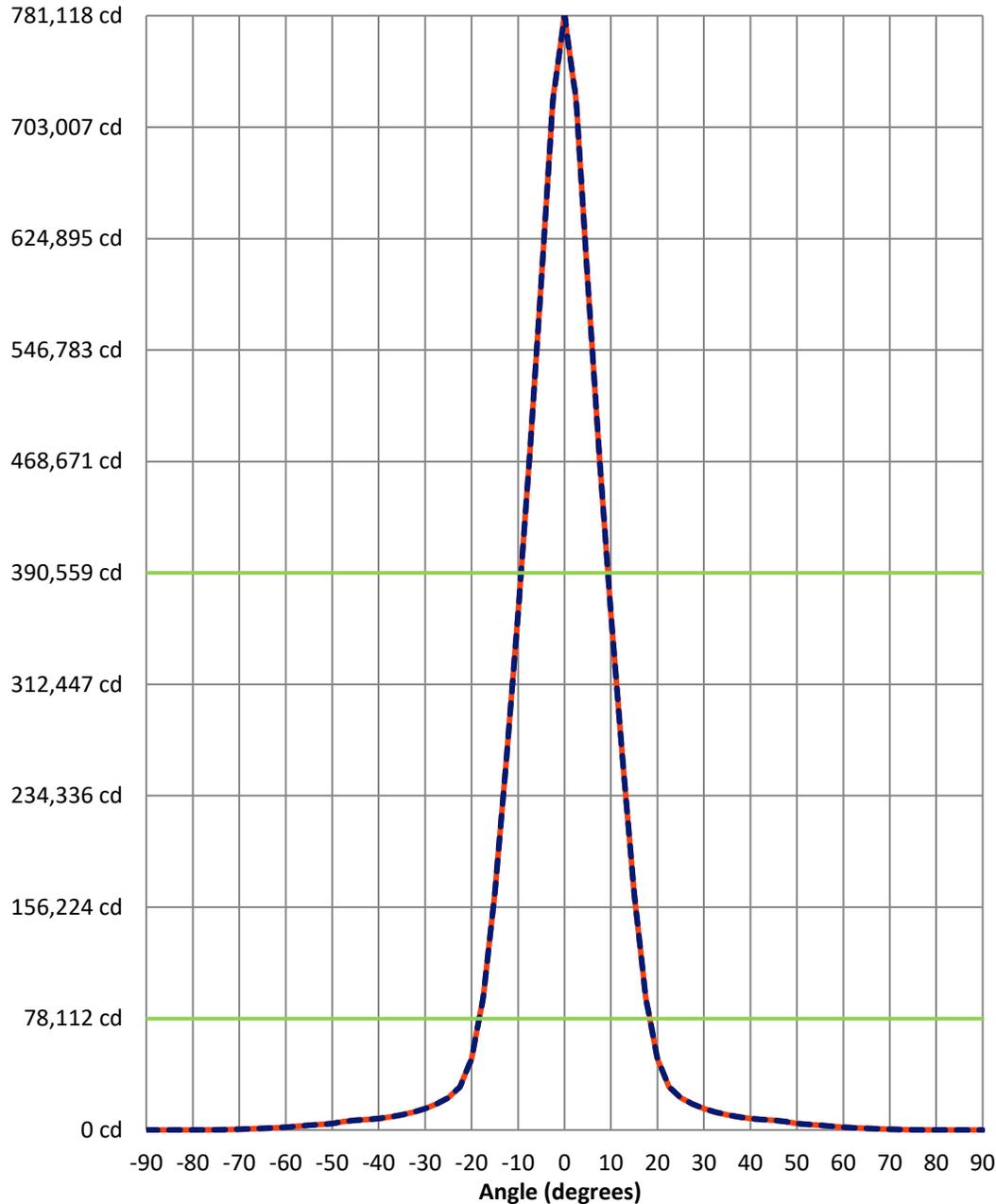
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CATALOG NUMBER: EPH-LS12-1000R-40-90-1S-HEG

### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 18.7°  
 V Angle: 18.7°  
 Lumens: 44085.1  
 Efficiency: 35.7%

**Field:**  
 H Angle: 36.7°  
 V Angle: 36.7°  
 Lumens: 91563.5  
 Efficiency: 74.2%

**Spill:**  
 Lumens: 31790.5  
 Efficiency: 25.8%

— 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	0.7	1.4	2.0	2.7	3.4	4.0	4.7	5.3	6.0	6.6
85°	0.0	1.4	2.7	4.1	5.4	6.7	8.1	9.4	10.7	11.9	13.2
82.5°	0.0	2.0	4.1	6.1	8.1	10.1	12.1	14.0	15.6	15.8	16.1
80°	0.0	2.7	5.4	8.1	10.8	13.4	15.7	15.9	16.2	16.5	16.8
77.5°	0.0	3.4	6.7	10.1	13.4	15.7	16.1	16.4	16.8	17.1	18.0
75°	0.0	4.0	8.1	12.1	15.7	16.1	16.5	16.9	17.5	19.1	20.7
72.5°	0.0	4.7	9.4	14.0	15.9	16.4	16.9	17.8	19.7	21.5	23.4
70°	0.0	5.3	10.7	15.6	16.2	16.8	17.5	19.7	21.8	24.0	29.5
67.5°	0.0	6.0	11.9	15.8	16.5	17.1	19.1	21.5	24.0	30.3	36.4
65°	0.0	6.6	13.2	16.1	16.8	18.0	20.7	23.4	29.5	36.4	45.4
62.5°	0.0	7.2	14.4	16.2	17.0	19.2	22.2	27.2	34.9	43.8	59.3
60°	0.0	7.8	15.6	16.4	17.3	20.5	23.7	31.8	40.1	56.1	73.0
57.5°	0.0	8.4	15.7	16.6	18.2	21.7	27.3	36.3	49.7	68.2	103.5
55°	0.0	8.9	15.8	16.8	19.2	22.9	31.1	40.7	60.2	84.9	141.3
52.5°	0.0	9.5	16.0	17.0	20.1	24.4	34.7	49.1	70.4	118.0	178.1
50°	0.0	10.0	16.1	17.2	21.0	27.3	38.3	57.8	85.8	150.1	231.1
47.5°	0.0	10.5	16.2	17.5	21.9	30.2	42.2	66.1	113.3	181.2	284.5
45°	0.0	11.0	16.3	18.1	22.7	32.9	49.1	74.2	139.9	227.1	336.0
42.5°	0.0	11.5	16.4	18.7	23.5	35.5	55.7	90.3	165.4	271.5	398.4
40°	0.0	11.9	16.5	19.2	24.9	38.0	62.0	111.6	194.1	314.0	460.3
37.5°	0.0	12.4	16.6	19.8	26.8	40.4	68.0	131.8	229.9	357.9	519.3
35°	0.0	12.8	16.7	20.3	28.6	44.3	73.6	151.0	263.8	408.0	584.5
32.5°	0.0	13.2	16.8	20.8	30.3	48.7	81.9	169.0	295.8	455.2	660.1
30°	0.0	13.5	16.8	21.2	31.9	52.8	96.3	188.0	325.7	499.5	730.9
27.5°	0.0	13.8	16.9	21.7	33.3	56.7	109.7	212.2	356.7	540.7	796.8
25°	0.0	14.1	17.0	22.0	34.7	60.2	122.0	234.5	390.2	589.3	857.9
22.5°	0.0	14.4	17.0	22.4	35.9	63.4	133.2	254.8	420.8	638.8	918.6
20°	0.0	14.7	17.1	22.7	37.0	66.3	143.3	273.1	448.3	683.5	973.5
17.5°	0.0	14.9	17.1	23.0	38.0	68.9	152.2	289.4	472.8	723.3	1022.3
15°	0.0	15.1	17.2	23.2	38.8	71.1	160.1	303.6	494.1	758.0	1064.9
12.5°	0.0	15.2	17.2	23.4	39.5	73.0	166.7	315.6	512.3	787.5	1101.1
10°	0.0	15.4	17.2	23.6	40.1	74.6	172.2	325.5	527.2	811.7	1130.9
7.5°	0.0	15.5	17.3	23.7	40.6	75.8	176.4	333.2	538.9	830.7	1154.2
5°	0.0	15.5	17.3	23.8	40.9	76.7	179.5	338.8	547.2	844.2	1170.9
2.5°	0.0	15.6	17.3	23.9	41.1	77.2	181.3	342.1	552.2	852.4	1181.0
0°	0.0	15.6	17.3	23.9	41.2	77.4	181.9	343.2	553.9	855.1	1184.3
-2.5°	0.0	15.6	17.3	23.9	41.1	77.2	181.3	342.1	552.2	852.4	1181.0
-5°	0.0	15.5	17.3	23.8	40.9	76.7	179.5	338.8	547.2	844.2	1170.9
-7.5°	0.0	15.5	17.3	23.7	40.6	75.8	176.4	333.2	538.9	830.7	1154.2
-10°	0.0	15.4	17.2	23.6	40.1	74.6	172.2	325.5	527.2	811.7	1130.9
-12.5°	0.0	15.2	17.2	23.4	39.5	73.0	166.7	315.6	512.3	787.5	1101.1
-15°	0.0	15.1	17.2	23.2	38.8	71.1	160.1	303.6	494.1	758.0	1064.9
-17.5°	0.0	14.9	17.1	23.0	38.0	68.9	152.2	289.4	472.8	723.3	1022.3
-20°	0.0	14.7	17.1	22.7	37.0	66.3	143.3	273.1	448.3	683.5	973.5



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CATALOG NUMBER: EPH-LS12-1000R-40-90-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	14.4	17.0	22.4	35.9	63.4	133.2	254.8	420.8	638.8	918.6
-25°	0.0	14.1	17.0	22.0	34.7	60.2	122.0	234.5	390.2	589.3	857.9
-27.5°	0.0	13.8	16.9	21.7	33.3	56.7	109.7	212.2	356.7	540.7	796.8
-30°	0.0	13.5	16.8	21.2	31.9	52.8	96.3	188.0	325.7	499.5	730.9
-32.5°	0.0	13.2	16.8	20.8	30.3	48.7	81.9	169.0	295.8	455.2	660.1
-35°	0.0	12.8	16.7	20.3	28.6	44.3	73.6	151.0	263.8	408.0	584.5
-37.5°	0.0	12.4	16.6	19.8	26.8	40.4	68.0	131.8	229.9	357.9	519.3
-40°	0.0	11.9	16.5	19.2	24.9	38.0	62.0	111.6	194.1	314.0	460.3
-42.5°	0.0	11.5	16.4	18.7	23.5	35.5	55.7	90.3	165.4	271.5	398.4
-45°	0.0	11.0	16.3	18.1	22.7	32.9	49.1	74.2	139.9	227.1	336.0
-47.5°	0.0	10.5	16.2	17.5	21.9	30.2	42.2	66.1	113.3	181.2	284.5
-50°	0.0	10.0	16.1	17.2	21.0	27.3	38.3	57.8	85.8	150.1	231.1
-52.5°	0.0	9.5	16.0	17.0	20.1	24.4	34.7	49.1	70.4	118.0	178.1
-55°	0.0	8.9	15.8	16.8	19.2	22.9	31.1	40.7	60.2	84.9	141.3
-57.5°	0.0	8.4	15.7	16.6	18.2	21.7	27.3	36.3	49.7	68.2	103.5
-60°	0.0	7.8	15.6	16.4	17.3	20.5	23.7	31.8	40.1	56.1	73.0
-62.5°	0.0	7.2	14.4	16.2	17.0	19.2	22.2	27.2	34.9	43.8	59.3
-65°	0.0	6.6	13.2	16.1	16.8	18.0	20.7	23.4	29.5	36.4	45.4
-67.5°	0.0	6.0	11.9	15.8	16.5	17.1	19.1	21.5	24.0	30.3	36.4
-70°	0.0	5.3	10.7	15.6	16.2	16.8	17.5	19.7	21.8	24.0	29.5
-72.5°	0.0	4.7	9.4	14.0	15.9	16.4	16.9	17.8	19.7	21.5	23.4
-75°	0.0	4.0	8.1	12.1	15.7	16.1	16.5	16.9	17.5	19.1	20.7
-77.5°	0.0	3.4	6.7	10.1	13.4	15.7	16.1	16.4	16.8	17.1	18.0
-80°	0.0	2.7	5.4	8.1	10.8	13.4	15.7	15.9	16.2	16.5	16.8
-82.5°	0.0	2.0	4.1	6.1	8.1	10.1	12.1	14.0	15.6	15.8	16.1
-85°	0.0	1.4	2.7	4.1	5.4	6.7	8.1	9.4	10.7	11.9	13.2
-87.5°	0.0	0.7	1.4	2.0	2.7	3.4	4.0	4.7	5.3	6.0	6.6
-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-40-90-1S-HEG

**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°	7.2	7.8	8.4	8.9	9.5	10.0	10.5	11.0	11.5	11.9	12.4
85°	14.4	15.6	15.7	15.8	16.0	16.1	16.2	16.3	16.4	16.5	16.6
82.5°	16.2	16.4	16.6	16.8	17.0	17.2	17.5	18.1	18.7	19.2	19.8
80°	17.0	17.3	18.2	19.2	20.1	21.0	21.9	22.7	23.5	24.9	26.8
77.5°	19.2	20.5	21.7	22.9	24.4	27.3	30.2	32.9	35.5	38.0	40.4
75°	22.2	23.7	27.3	31.1	34.7	38.3	42.2	49.1	55.7	62.0	68.0
72.5°	27.2	31.8	36.3	40.7	49.1	57.8	66.1	74.2	90.3	111.6	131.8
70°	34.9	40.1	49.7	60.2	70.4	85.8	113.3	139.9	165.4	194.1	229.9
67.5°	43.8	56.1	68.2	84.9	118.0	150.1	181.2	227.1	271.5	314.0	357.9
65°	59.3	73.0	103.5	141.3	178.1	231.1	284.5	336.0	398.4	460.3	519.3
62.5°	74.7	112.9	155.4	205.0	267.4	328.1	400.3	474.4	545.8	640.0	733.3
60°	112.9	160.1	219.6	289.4	361.8	448.3	532.2	638.8	750.5	857.9	969.7
57.5°	155.4	219.6	296.7	381.1	477.4	578.5	708.6	834.5	965.3	1092.8	1216.0
55°	205.0	289.4	381.1	487.1	606.5	750.9	894.5	1043.1	1186.6	1330.5	1468.2
52.5°	267.4	361.8	477.4	606.5	765.0	925.6	1090.1	1252.5	1413.3	1581.1	1776.3
50°	328.1	448.3	578.5	750.9	925.6	1105.9	1285.7	1463.5	1669.8	1888.1	2153.6
47.5°	400.3	532.2	708.6	894.5	1090.1	1285.7	1480.3	1714.5	1955.9	2287.4	2616.6
45°	474.4	638.8	834.5	1043.1	1252.5	1463.5	1714.5	1978.6	2354.9	2727.3	3115.0
42.5°	545.8	750.5	965.3	1186.6	1413.3	1669.8	1955.9	2354.9	2765.3	3192.1	3547.0
40°	640.0	857.9	1092.8	1330.5	1581.1	1888.1	2287.4	2727.3	3192.1	3576.7	3906.3
37.5°	733.3	969.7	1216.0	1468.2	1776.3	2153.6	2616.6	3115.0	3547.0	3906.3	4320.8
35°	821.9	1076.1	1337.0	1622.1	1962.7	2447.6	2962.2	3458.5	3845.9	4283.7	4881.3
32.5°	910.3	1176.6	1451.5	1785.6	2214.7	2736.2	3293.7	3726.2	4173.3	4721.3	5701.8
30°	996.1	1274.8	1569.1	1939.6	2459.4	3027.9	3549.4	3991.6	4498.8	5456.9	6305.2
27.5°	1076.1	1366.6	1701.3	2132.6	2693.5	3301.3	3771.8	4278.0	5054.6	6091.7	6782.0
25°	1149.9	1451.5	1823.6	2328.3	2928.4	3510.3	3990.0	4545.3	5662.6	6510.3	7064.2
22.5°	1218.9	1529.7	1935.7	2507.9	3144.1	3686.8	4218.8	5025.3	6138.5	6890.1	7283.3
20°	1282.5	1622.1	2064.5	2673.8	3339.9	3847.2	4427.1	5501.9	6468.6	7077.0	7557.3
17.5°	1339.1	1704.4	2197.2	2834.2	3479.6	4004.3	4647.7	5930.0	6765.8	7245.7	7839.3
15°	1388.6	1776.3	2313.3	2974.7	3595.3	4155.3	4995.1	6190.7	6957.9	7418.2	8093.2
12.5°	1430.8	1837.7	2412.4	3094.7	3694.2	4284.6	5292.8	6398.3	7076.3	7617.1	8427.2
10°	1465.4	1888.1	2494.0	3193.6	3775.8	4391.3	5539.0	6570.2	7174.5	7782.4	8705.3
7.5°	1492.5	1927.6	2557.8	3271.0	3839.7	4475.0	5732.1	6705.2	7251.7	7912.5	8924.8
5°	1511.9	1955.9	2603.6	3326.5	3885.6	4535.1	5871.0	6802.3	7307.3	8006.4	9083.4
2.5°	1523.6	1972.9	2631.1	3359.9	3913.3	4571.3	5954.6	6860.9	7340.9	8063.1	9179.2
0°	1527.5	1978.6	2640.3	3371.1	3922.5	4583.4	5982.6	6880.5	7352.1	8082.1	9211.3
-2.5°	1523.6	1972.9	2631.1	3359.9	3913.3	4571.3	5954.6	6860.9	7340.9	8063.1	9179.2
-5°	1511.9	1955.9	2603.6	3326.5	3885.6	4535.1	5871.0	6802.3	7307.3	8006.4	9083.4
-7.5°	1492.5	1927.6	2557.8	3271.0	3839.7	4475.0	5732.1	6705.2	7251.7	7912.5	8924.8
-10°	1465.4	1888.1	2494.0	3193.6	3775.8	4391.3	5539.0	6570.2	7174.5	7782.4	8705.3
-12.5°	1430.8	1837.7	2412.4	3094.7	3694.2	4284.6	5292.8	6398.3	7076.3	7617.1	8427.2
-15°	1388.6	1776.3	2313.3	2974.7	3595.3	4155.3	4995.1	6190.7	6957.9	7418.2	8093.2
-17.5°	1339.1	1704.4	2197.2	2834.2	3479.6	4004.3	4647.7	5930.0	6765.8	7245.7	7839.3
-20°	1282.5	1622.1	2064.5	2673.8	3339.9	3847.2	4427.1	5501.9	6468.6	7077.0	7557.3



REPORT NUMBER: P1212106 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1218.9	1529.7	1935.7	2507.9	3144.1	3686.8	4218.8	5025.3	6138.5	6890.1	7283.3
-25°	1149.9	1451.5	1823.6	2328.3	2928.4	3510.3	3990.0	4545.3	5662.6	6510.3	7064.2
-27.5°	1076.1	1366.6	1701.3	2132.6	2693.5	3301.3	3771.8	4278.0	5054.6	6091.7	6782.0
-30°	996.1	1274.8	1569.1	1939.6	2459.4	3027.9	3549.4	3991.6	4498.8	5456.9	6305.2
-32.5°	910.3	1176.6	1451.5	1785.6	2214.7	2736.2	3293.7	3726.2	4173.3	4721.3	5701.8
-35°	821.9	1076.1	1337.0	1622.1	1962.7	2447.6	2962.2	3458.5	3845.9	4283.7	4881.3
-37.5°	733.3	969.7	1216.0	1468.2	1776.3	2153.6	2616.6	3115.0	3547.0	3906.3	4320.8
-40°	640.0	857.9	1092.8	1330.5	1581.1	1888.1	2287.4	2727.3	3192.1	3576.7	3906.3
-42.5°	545.8	750.5	965.3	1186.6	1413.3	1669.8	1955.9	2354.9	2765.3	3192.1	3547.0
-45°	474.4	638.8	834.5	1043.1	1252.5	1463.5	1714.5	1978.6	2354.9	2727.3	3115.0
-47.5°	400.3	532.2	708.6	894.5	1090.1	1285.7	1480.3	1714.5	1955.9	2287.4	2616.6
-50°	328.1	448.3	578.5	750.9	925.6	1105.9	1285.7	1463.5	1669.8	1888.1	2153.6
-52.5°	267.4	361.8	477.4	606.5	765.0	925.6	1090.1	1252.5	1413.3	1581.1	1776.3
-55°	205.0	289.4	381.1	487.1	606.5	750.9	894.5	1043.1	1186.6	1330.5	1468.2
-57.5°	155.4	219.6	296.7	381.1	477.4	578.5	708.6	834.5	965.3	1092.8	1216.0
-60°	112.9	160.1	219.6	289.4	361.8	448.3	532.2	638.8	750.5	857.9	969.7
-62.5°	74.7	112.9	155.4	205.0	267.4	328.1	400.3	474.4	545.8	640.0	733.3
-65°	59.3	73.0	103.5	141.3	178.1	231.1	284.5	336.0	398.4	460.3	519.3
-67.5°	43.8	56.1	68.2	84.9	118.0	150.1	181.2	227.1	271.5	314.0	357.9
-70°	34.9	40.1	49.7	60.2	70.4	85.8	113.3	139.9	165.4	194.1	229.9
-72.5°	27.2	31.8	36.3	40.7	49.1	57.8	66.1	74.2	90.3	111.6	131.8
-75°	22.2	23.7	27.3	31.1	34.7	38.3	42.2	49.1	55.7	62.0	68.0
-77.5°	19.2	20.5	21.7	22.9	24.4	27.3	30.2	32.9	35.5	38.0	40.4
-80°	17.0	17.3	18.2	19.2	20.1	21.0	21.9	22.7	23.5	24.9	26.8
-82.5°	16.2	16.4	16.6	16.8	17.0	17.2	17.5	18.1	18.7	19.2	19.8
-85°	14.4	15.6	15.7	15.8	16.0	16.1	16.2	16.3	16.4	16.5	16.6
-87.5°	7.2	7.8	8.4	8.9	9.5	10.0	10.5	11.0	11.5	11.9	12.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1212106 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-1S-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°	12.8	13.2	13.5	13.8	14.1	14.4	14.7	14.9	15.1	15.2	15.4
85°	16.7	16.8	16.8	16.9	17.0	17.0	17.1	17.1	17.2	17.2	17.2
82.5°	20.3	20.8	21.2	21.7	22.0	22.4	22.7	23.0	23.2	23.4	23.6
80°	28.6	30.3	31.9	33.3	34.7	35.9	37.0	38.0	38.8	39.5	40.1
77.5°	44.3	48.7	52.8	56.7	60.2	63.4	66.3	68.9	71.1	73.0	74.6
75°	73.6	81.9	96.3	109.7	122.0	133.2	143.3	152.2	160.1	166.7	172.2
72.5°	151.0	169.0	188.0	212.2	234.5	254.8	273.1	289.4	303.6	315.6	325.5
70°	263.8	295.8	325.7	356.7	390.2	420.8	448.3	472.8	494.1	512.3	527.2
67.5°	408.0	455.2	499.5	540.7	589.3	638.8	683.5	723.3	758.0	787.5	811.7
65°	584.5	660.1	730.9	796.8	857.9	918.6	973.5	1022.3	1064.9	1101.1	1130.9
62.5°	821.9	910.3	996.1	1076.1	1149.9	1218.9	1282.5	1339.1	1388.6	1430.8	1465.4
60°	1076.1	1176.6	1274.8	1366.6	1451.5	1529.7	1622.1	1704.4	1776.3	1837.7	1888.1
57.5°	1337.0	1451.5	1569.1	1701.3	1823.6	1935.7	2064.5	2197.2	2313.3	2412.4	2494.0
55°	1622.1	1785.6	1939.6	2132.6	2328.3	2507.9	2673.8	2834.2	2974.7	3094.7	3193.6
52.5°	1962.7	2214.7	2459.4	2693.5	2928.4	3144.1	3339.9	3479.6	3595.3	3694.2	3775.8
50°	2447.6	2736.2	3027.9	3301.3	3510.3	3686.8	3847.2	4004.3	4155.3	4284.6	4391.3
47.5°	2962.2	3293.7	3549.4	3771.8	3990.0	4218.8	4427.1	4647.7	4995.1	5292.8	5539.0
45°	3458.5	3726.2	3991.6	4278.0	4545.3	5025.3	5501.9	5930.0	6190.7	6398.3	6570.2
42.5°	3845.9	4173.3	4498.8	5054.6	5662.6	6138.5	6468.6	6765.8	6957.9	7076.3	7174.5
40°	4283.7	4721.3	5456.9	6091.7	6510.3	6890.1	7077.0	7245.7	7418.2	7617.1	7782.4
37.5°	4881.3	5701.8	6305.2	6782.0	7064.2	7283.3	7557.3	7839.3	8093.2	8427.2	8705.3
35°	5784.0	6413.1	6915.7	7182.7	7479.6	7843.5	8231.9	8702.8	9121.7	9565.7	9958.7
32.5°	6413.1	6944.9	7242.7	7622.4	8038.6	8618.1	9176.3	9825.5	10414.4	10997.8	11549.1
30°	6915.7	7242.7	7670.5	8168.0	8854.5	9586.3	10364.9	11191.9	12013.2	12782.1	13569.9
27.5°	7182.7	7622.4	8168.0	8934.1	9800.0	10701.8	11777.8	12830.7	13996.0	15018.2	16184.0
25°	7479.6	8038.6	8854.5	9800.0	10845.5	12076.5	13438.5	14835.4	16481.5	17992.3	19550.8
22.5°	7843.5	8618.1	9586.3	10701.8	12076.5	13644.0	15350.1	17390.0	19520.1	21667.7	24150.9
20°	8231.9	9176.3	10364.9	11777.8	13438.5	15350.1	17698.2	20361.0	23238.9	27419.0	32148.1
17.5°	8702.8	9825.5	11191.9	12830.7	14835.4	17390.0	20361.0	24037.9	29113.2	39075.3	49449.4
15°	9121.7	10414.4	12013.2	13996.0	16481.5	19520.1	23238.9	29113.2	41451.4	59771.0	84942.5
12.5°	9565.7	10997.8	12782.1	15018.2	17992.3	21667.7	27419.0	39075.3	59771.0	91056.1	137982.2
10°	9958.7	11549.1	13569.9	16184.0	19550.8	24150.9	32148.1	49449.4	84942.5	137982.2	198158.6
7.5°	10269.6	11986.4	14196.9	17117.1	20888.8	26785.9	39750.6	67311.4	115348.4	182307.1	261065.5
5°	10494.5	12303.5	14652.8	17798.0	21869.6	28728.4	45398.9	81261.2	142798.2	223312.6	313211.9
2.5°	10630.7	12495.8	14929.8	18212.6	22468.7	29920.2	48884.2	89939.8	160081.4	250652.5	349036.6
0°	10676.3	12560.2	15022.7	18351.9	22670.3	30322.0	50063.1	92888.5	165993.8	260169.5	361749.1
-2.5°	10630.7	12495.8	14929.8	18212.6	22468.7	29920.2	48884.2	89939.8	160081.4	250652.5	349036.6
-5°	10494.5	12303.5	14652.8	17798.0	21869.6	28728.4	45398.9	81261.2	142798.2	223312.6	313211.9
-7.5°	10269.6	11986.4	14196.9	17117.1	20888.8	26785.9	39750.6	67311.4	115348.4	182307.1	261065.5
-10°	9958.7	11549.1	13569.9	16184.0	19550.8	24150.9	32148.1	49449.4	84942.5	137982.2	198158.6
-12.5°	9565.7	10997.8	12782.1	15018.2	17992.3	21667.7	27419.0	39075.3	59771.0	91056.1	137982.2
-15°	9121.7	10414.4	12013.2	13996.0	16481.5	19520.1	23238.9	29113.2	41451.4	59771.0	84942.5
-17.5°	8702.8	9825.5	11191.9	12830.7	14835.4	17390.0	20361.0	24037.9	29113.2	39075.3	49449.4
-20°	8231.9	9176.3	10364.9	11777.8	13438.5	15350.1	17698.2	20361.0	23238.9	27419.0	32148.1



REPORT NUMBER: P1212106 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7843.5	8618.1	9586.3	10701.8	12076.5	13644.0	15350.1	17390.0	19520.1	21667.7	24150.9
-25°	7479.6	8038.6	8854.5	9800.0	10845.5	12076.5	13438.5	14835.4	16481.5	17992.3	19550.8
-27.5°	7182.7	7622.4	8168.0	8934.1	9800.0	10701.8	11777.8	12830.7	13996.0	15018.2	16184.0
-30°	6915.7	7242.7	7670.5	8168.0	8854.5	9586.3	10364.9	11191.9	12013.2	12782.1	13569.9
-32.5°	6413.1	6944.9	7242.7	7622.4	8038.6	8618.1	9176.3	9825.5	10414.4	10997.8	11549.1
-35°	5784.0	6413.1	6915.7	7182.7	7479.6	7843.5	8231.9	8702.8	9121.7	9565.7	9958.7
-37.5°	4881.3	5701.8	6305.2	6782.0	7064.2	7283.3	7557.3	7839.3	8093.2	8427.2	8705.3
-40°	4283.7	4721.3	5456.9	6091.7	6510.3	6890.1	7077.0	7245.7	7418.2	7617.1	7782.4
-42.5°	3845.9	4173.3	4498.8	5054.6	5662.6	6138.5	6468.6	6765.8	6957.9	7076.3	7174.5
-45°	3458.5	3726.2	3991.6	4278.0	4545.3	5025.3	5501.9	5930.0	6190.7	6398.3	6570.2
-47.5°	2962.2	3293.7	3549.4	3771.8	3990.0	4218.8	4427.1	4647.7	4995.1	5292.8	5539.0
-50°	2447.6	2736.2	3027.9	3301.3	3510.3	3686.8	3847.2	4004.3	4155.3	4284.6	4391.3
-52.5°	1962.7	2214.7	2459.4	2693.5	2928.4	3144.1	3339.9	3479.6	3595.3	3694.2	3775.8
-55°	1622.1	1785.6	1939.6	2132.6	2328.3	2507.9	2673.8	2834.2	2974.7	3094.7	3193.6
-57.5°	1337.0	1451.5	1569.1	1701.3	1823.6	1935.7	2064.5	2197.2	2313.3	2412.4	2494.0
-60°	1076.1	1176.6	1274.8	1366.6	1451.5	1529.7	1622.1	1704.4	1776.3	1837.7	1888.1
-62.5°	821.9	910.3	996.1	1076.1	1149.9	1218.9	1282.5	1339.1	1388.6	1430.8	1465.4
-65°	584.5	660.1	730.9	796.8	857.9	918.6	973.5	1022.3	1064.9	1101.1	1130.9
-67.5°	408.0	455.2	499.5	540.7	589.3	638.8	683.5	723.3	758.0	787.5	811.7
-70°	263.8	295.8	325.7	356.7	390.2	420.8	448.3	472.8	494.1	512.3	527.2
-72.5°	151.0	169.0	188.0	212.2	234.5	254.8	273.1	289.4	303.6	315.6	325.5
-75°	73.6	81.9	96.3	109.7	122.0	133.2	143.3	152.2	160.1	166.7	172.2
-77.5°	44.3	48.7	52.8	56.7	60.2	63.4	66.3	68.9	71.1	73.0	74.6
-80°	28.6	30.3	31.9	33.3	34.7	35.9	37.0	38.0	38.8	39.5	40.1
-82.5°	20.3	20.8	21.2	21.7	22.0	22.4	22.7	23.0	23.2	23.4	23.6
-85°	16.7	16.8	16.8	16.9	17.0	17.0	17.1	17.1	17.2	17.2	17.2
-87.5°	12.8	13.2	13.5	13.8	14.1	14.4	14.7	14.9	15.1	15.2	15.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1212106 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-100R-40-90-1S-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°	15.5	15.5	15.6	15.6	15.6	15.5	15.5	15.4	15.2	15.1	14.9
85°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.2	17.2	17.2	17.1
82.5°	23.7	23.8	23.9	23.9	23.9	23.8	23.7	23.6	23.4	23.2	23.0
80°	40.6	40.9	41.1	41.2	41.1	40.9	40.6	40.1	39.5	38.8	38.0
77.5°	75.8	76.7	77.2	77.4	77.2	76.7	75.8	74.6	73.0	71.1	68.9
75°	176.4	179.5	181.3	181.9	181.3	179.5	176.4	172.2	166.7	160.1	152.2
72.5°	333.2	338.8	342.1	343.2	342.1	338.8	333.2	325.5	315.6	303.6	289.4
70°	538.9	547.2	552.2	553.9	552.2	547.2	538.9	527.2	512.3	494.1	472.8
67.5°	830.7	844.2	852.4	855.1	852.4	844.2	830.7	811.7	787.5	758.0	723.3
65°	1154.2	1170.9	1181.0	1184.3	1181.0	1170.9	1154.2	1130.9	1101.1	1064.9	1022.3
62.5°	1492.5	1511.9	1523.6	1527.5	1523.6	1511.9	1492.5	1465.4	1430.8	1388.6	1339.1
60°	1927.6	1955.9	1972.9	1978.6	1972.9	1955.9	1927.6	1888.1	1837.7	1776.3	1704.4
57.5°	2557.8	2603.6	2631.1	2640.3	2631.1	2603.6	2557.8	2494.0	2412.4	2313.3	2197.2
55°	3271.0	3326.5	3359.9	3371.1	3359.9	3326.5	3271.0	3193.6	3094.7	2974.7	2834.2
52.5°	3839.7	3885.6	3913.3	3922.5	3913.3	3885.6	3839.7	3775.8	3694.2	3595.3	3479.6
50°	4475.0	4535.1	4571.3	4583.4	4571.3	4535.1	4475.0	4391.3	4284.6	4155.3	4004.3
47.5°	5732.1	5871.0	5954.6	5982.6	5954.6	5871.0	5732.1	5539.0	5292.8	4995.1	4647.7
45°	6705.2	6802.3	6860.9	6880.5	6860.9	6802.3	6705.2	6570.2	6398.3	6190.7	5930.0
42.5°	7251.7	7307.3	7340.9	7352.1	7340.9	7307.3	7251.7	7174.5	7076.3	6957.9	6765.8
40°	7912.5	8006.4	8063.1	8082.1	8063.1	8006.4	7912.5	7782.4	7617.1	7418.2	7245.7
37.5°	8924.8	9083.4	9179.2	9211.3	9179.2	9083.4	8924.8	8705.3	8427.2	8093.2	7839.3
35°	10269.6	10494.5	10630.7	10676.3	10630.7	10494.5	10269.6	9958.7	9565.7	9121.7	8702.8
32.5°	11986.4	12303.5	12495.8	12560.2	12495.8	12303.5	11986.4	11549.1	10997.8	10414.4	9825.5
30°	14196.9	14652.8	14929.8	15022.7	14929.8	14652.8	14196.9	13569.9	12782.1	12013.2	11191.9
27.5°	17117.1	17798.0	18212.6	18351.9	18212.6	17798.0	17117.1	16184.0	15018.2	13996.0	12830.7
25°	20888.8	21869.6	22468.7	22670.3	22468.7	21869.6	20888.8	19550.8	17992.3	16481.5	14835.4
22.5°	26785.9	28728.4	29920.2	30322.0	29920.2	28728.4	26785.9	24150.9	21667.7	19520.1	17390.0
20°	39750.6	45398.9	48884.2	50063.1	48884.2	45398.9	39750.6	32148.1	27419.0	23238.9	20361.0
17.5°	67311.4	81261.2	89939.8	92888.5	89939.8	81261.2	67311.4	49449.4	39075.3	29113.2	24037.9
15°	115348.4	142798.2	160081.4	165993.8	160081.4	142798.2	115348.4	84942.5	59771.0	41451.4	29113.2
12.5°	182307.1	223312.6	250652.5	260169.5	250652.5	223312.6	182307.1	137982.2	91056.1	59771.0	39075.3
10°	261065.5	313211.9	349036.6	361749.1	349036.6	313211.9	261065.5	198158.6	137982.2	84942.5	49449.4
7.5°	337072.9	404720.2	454552.9	472870.1	454552.9	404720.2	337072.9	261065.5	182307.1	115348.4	67311.4
5°	404720.2	492548.9	565417.6	595022.1	565417.6	492548.9	404720.2	313211.9	223312.6	142798.2	81261.2
2.5°	454552.9	565417.6	672158.0	721764.1	672158.0	565417.6	454552.9	349036.6	250652.5	160081.4	89939.8
0°	472870.1	595022.1	721764.1	781118.4	721764.1	595022.1	472870.1	361749.1	260169.5	165993.8	92888.5
-2.5°	454552.9	565417.6	672158.0	721764.1	672158.0	565417.6	454552.9	349036.6	250652.5	160081.4	89939.8
-5°	404720.2	492548.9	565417.6	595022.1	565417.6	492548.9	404720.2	313211.9	223312.6	142798.2	81261.2
-7.5°	337072.9	404720.2	454552.9	472870.1	454552.9	404720.2	337072.9	261065.5	182307.1	115348.4	67311.4
-10°	261065.5	313211.9	349036.6	361749.1	349036.6	313211.9	261065.5	198158.6	137982.2	84942.5	49449.4
-12.5°	182307.1	223312.6	250652.5	260169.5	250652.5	223312.6	182307.1	137982.2	91056.1	59771.0	39075.3
-15°	115348.4	142798.2	160081.4	165993.8	160081.4	142798.2	115348.4	84942.5	59771.0	41451.4	29113.2
-17.5°	67311.4	81261.2	89939.8	92888.5	89939.8	81261.2	67311.4	49449.4	39075.3	29113.2	24037.9
-20°	39750.6	45398.9	48884.2	50063.1	48884.2	45398.9	39750.6	32148.1	27419.0	23238.9	20361.0



REPORT NUMBER: P1212106 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	26785.9	28728.4	29920.2	30322.0	29920.2	28728.4	26785.9	24150.9	21667.7	19520.1	17390.0
-25°	20888.8	21869.6	22468.7	22670.3	22468.7	21869.6	20888.8	19550.8	17992.3	16481.5	14835.4
-27.5°	17117.1	17798.0	18212.6	18351.9	18212.6	17798.0	17117.1	16184.0	15018.2	13996.0	12830.7
-30°	14196.9	14652.8	14929.8	15022.7	14929.8	14652.8	14196.9	13569.9	12782.1	12013.2	11191.9
-32.5°	11986.4	12303.5	12495.8	12560.2	12495.8	12303.5	11986.4	11549.1	10997.8	10414.4	9825.5
-35°	10269.6	10494.5	10630.7	10676.3	10630.7	10494.5	10269.6	9958.7	9565.7	9121.7	8702.8
-37.5°	8924.8	9083.4	9179.2	9211.3	9179.2	9083.4	8924.8	8705.3	8427.2	8093.2	7839.3
-40°	7912.5	8006.4	8063.1	8082.1	8063.1	8006.4	7912.5	7782.4	7617.1	7418.2	7245.7
-42.5°	7251.7	7307.3	7340.9	7352.1	7340.9	7307.3	7251.7	7174.5	7076.3	6957.9	6765.8
-45°	6705.2	6802.3	6860.9	6880.5	6860.9	6802.3	6705.2	6570.2	6398.3	6190.7	5930.0
-47.5°	5732.1	5871.0	5954.6	5982.6	5954.6	5871.0	5732.1	5539.0	5292.8	4995.1	4647.7
-50°	4475.0	4535.1	4571.3	4583.4	4571.3	4535.1	4475.0	4391.3	4284.6	4155.3	4004.3
-52.5°	3839.7	3885.6	3913.3	3922.5	3913.3	3885.6	3839.7	3775.8	3694.2	3595.3	3479.6
-55°	3271.0	3326.5	3359.9	3371.1	3359.9	3326.5	3271.0	3193.6	3094.7	2974.7	2834.2
-57.5°	2557.8	2603.6	2631.1	2640.3	2631.1	2603.6	2557.8	2494.0	2412.4	2313.3	2197.2
-60°	1927.6	1955.9	1972.9	1978.6	1972.9	1955.9	1927.6	1888.1	1837.7	1776.3	1704.4
-62.5°	1492.5	1511.9	1523.6	1527.5	1523.6	1511.9	1492.5	1465.4	1430.8	1388.6	1339.1
-65°	1154.2	1170.9	1181.0	1184.3	1181.0	1170.9	1154.2	1130.9	1101.1	1064.9	1022.3
-67.5°	830.7	844.2	852.4	855.1	852.4	844.2	830.7	811.7	787.5	758.0	723.3
-70°	538.9	547.2	552.2	553.9	552.2	547.2	538.9	527.2	512.3	494.1	472.8
-72.5°	333.2	338.8	342.1	343.2	342.1	338.8	333.2	325.5	315.6	303.6	289.4
-75°	176.4	179.5	181.3	181.9	181.3	179.5	176.4	172.2	166.7	160.1	152.2
-77.5°	75.8	76.7	77.2	77.4	77.2	76.7	75.8	74.6	73.0	71.1	68.9
-80°	40.6	40.9	41.1	41.2	41.1	40.9	40.6	40.1	39.5	38.8	38.0
-82.5°	23.7	23.8	23.9	23.9	23.9	23.8	23.7	23.6	23.4	23.2	23.0
-85°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.2	17.2	17.2	17.1
-87.5°	15.5	15.5	15.6	15.6	15.6	15.5	15.5	15.4	15.2	15.1	14.9
-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: P1212106 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-1S-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°	14.7	14.4	14.1	13.8	13.5	13.2	12.8	12.4	11.9	11.5	11.0
85°	17.1	17.0	17.0	16.9	16.8	16.8	16.7	16.6	16.5	16.4	16.3
82.5°	22.7	22.4	22.0	21.7	21.2	20.8	20.3	19.8	19.2	18.7	18.1
80°	37.0	35.9	34.7	33.3	31.9	30.3	28.6	26.8	24.9	23.5	22.7
77.5°	66.3	63.4	60.2	56.7	52.8	48.7	44.3	40.4	38.0	35.5	32.9
75°	143.3	133.2	122.0	109.7	96.3	81.9	73.6	68.0	62.0	55.7	49.1
72.5°	273.1	254.8	234.5	212.2	188.0	169.0	151.0	131.8	111.6	90.3	74.2
70°	448.3	420.8	390.2	356.7	325.7	295.8	263.8	229.9	194.1	165.4	139.9
67.5°	683.5	638.8	589.3	540.7	499.5	455.2	408.0	357.9	314.0	271.5	227.1
65°	973.5	918.6	857.9	796.8	730.9	660.1	584.5	519.3	460.3	398.4	336.0
62.5°	1282.5	1218.9	1149.9	1076.1	996.1	910.3	821.9	733.3	640.0	545.8	474.4
60°	1622.1	1529.7	1451.5	1366.6	1274.8	1176.6	1076.1	969.7	857.9	750.5	638.8
57.5°	2064.5	1935.7	1823.6	1701.3	1569.1	1451.5	1337.0	1216.0	1092.8	965.3	834.5
55°	2673.8	2507.9	2328.3	2132.6	1939.6	1785.6	1622.1	1468.2	1330.5	1186.6	1043.1
52.5°	3339.9	3144.1	2928.4	2693.5	2459.4	2214.7	1962.7	1776.3	1581.1	1413.3	1252.5
50°	3847.2	3686.8	3510.3	3301.3	3027.9	2736.2	2447.6	2153.6	1888.1	1669.8	1463.5
47.5°	4427.1	4218.8	3990.0	3771.8	3549.4	3293.7	2962.2	2616.6	2287.4	1955.9	1714.5
45°	5501.9	5025.3	4545.3	4278.0	3991.6	3726.2	3458.5	3115.0	2727.3	2354.9	1978.6
42.5°	6468.6	6138.5	5662.6	5054.6	4498.8	4173.3	3845.9	3547.0	3192.1	2765.3	2354.9
40°	7077.0	6890.1	6510.3	6091.7	5456.9	4721.3	4283.7	3906.3	3576.7	3192.1	2727.3
37.5°	7557.3	7283.3	7064.2	6782.0	6305.2	5701.8	4881.3	4320.8	3906.3	3547.0	3115.0
35°	8231.9	7843.5	7479.6	7182.7	6915.7	6413.1	5784.0	4881.3	4283.7	3845.9	3458.5
32.5°	9176.3	8618.1	8038.6	7622.4	7242.7	6944.9	6413.1	5701.8	4721.3	4173.3	3726.2
30°	10364.9	9586.3	8854.5	8168.0	7670.5	7242.7	6915.7	6305.2	5456.9	4498.8	3991.6
27.5°	11777.8	10701.8	9800.0	8934.1	8168.0	7622.4	7182.7	6782.0	6091.7	5054.6	4278.0
25°	13438.5	12076.5	10845.5	9800.0	8854.5	8038.6	7479.6	7064.2	6510.3	5662.6	4545.3
22.5°	15350.1	13644.0	12076.5	10701.8	9586.3	8618.1	7843.5	7283.3	6890.1	6138.5	5025.3
20°	17698.2	15350.1	13438.5	11777.8	10364.9	9176.3	8231.9	7557.3	7077.0	6468.6	5501.9
17.5°	20361.0	17390.0	14835.4	12830.7	11191.9	9825.5	8702.8	7839.3	7245.7	6765.8	5930.0
15°	23238.9	19520.1	16481.5	13996.0	12013.2	10414.4	9121.7	8093.2	7418.2	6957.9	6190.7
12.5°	27419.0	21667.7	17992.3	15018.2	12782.1	10997.8	9565.7	8427.2	7617.1	7076.3	6398.3
10°	32148.1	24150.9	19550.8	16184.0	13569.9	11549.1	9958.7	8705.3	7782.4	7174.5	6570.2
7.5°	39750.6	26785.9	20888.8	17117.1	14196.9	11986.4	10269.6	8924.8	7912.5	7251.7	6705.2
5°	45398.9	28728.4	21869.6	17798.0	14652.8	12303.5	10494.5	9083.4	8006.4	7307.3	6802.3
2.5°	48884.2	29920.2	22468.7	18212.6	14929.8	12495.8	10630.7	9179.2	8063.1	7340.9	6860.9
0°	50063.1	30322.0	22670.3	18351.9	15022.7	12560.2	10676.3	9211.3	8082.1	7352.1	6880.5
-2.5°	48884.2	29920.2	22468.7	18212.6	14929.8	12495.8	10630.7	9179.2	8063.1	7340.9	6860.9
-5°	45398.9	28728.4	21869.6	17798.0	14652.8	12303.5	10494.5	9083.4	8006.4	7307.3	6802.3
-7.5°	39750.6	26785.9	20888.8	17117.1	14196.9	11986.4	10269.6	8924.8	7912.5	7251.7	6705.2
-10°	32148.1	24150.9	19550.8	16184.0	13569.9	11549.1	9958.7	8705.3	7782.4	7174.5	6570.2
-12.5°	27419.0	21667.7	17992.3	15018.2	12782.1	10997.8	9565.7	8427.2	7617.1	7076.3	6398.3
-15°	23238.9	19520.1	16481.5	13996.0	12013.2	10414.4	9121.7	8093.2	7418.2	6957.9	6190.7
-17.5°	20361.0	17390.0	14835.4	12830.7	11191.9	9825.5	8702.8	7839.3	7245.7	6765.8	5930.0
-20°	17698.2	15350.1	13438.5	11777.8	10364.9	9176.3	8231.9	7557.3	7077.0	6468.6	5501.9



REPORT NUMBER: P1212106 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	15350.1	13644.0	12076.5	10701.8	9586.3	8618.1	7843.5	7283.3	6890.1	6138.5	5025.3
-25°	13438.5	12076.5	10845.5	9800.0	8854.5	8038.6	7479.6	7064.2	6510.3	5662.6	4545.3
-27.5°	11777.8	10701.8	9800.0	8934.1	8168.0	7622.4	7182.7	6782.0	6091.7	5054.6	4278.0
-30°	10364.9	9586.3	8854.5	8168.0	7670.5	7242.7	6915.7	6305.2	5456.9	4498.8	3991.6
-32.5°	9176.3	8618.1	8038.6	7622.4	7242.7	6944.9	6413.1	5701.8	4721.3	4173.3	3726.2
-35°	8231.9	7843.5	7479.6	7182.7	6915.7	6413.1	5784.0	4881.3	4283.7	3845.9	3458.5
-37.5°	7557.3	7283.3	7064.2	6782.0	6305.2	5701.8	4881.3	4320.8	3906.3	3547.0	3115.0
-40°	7077.0	6890.1	6510.3	6091.7	5456.9	4721.3	4283.7	3906.3	3576.7	3192.1	2727.3
-42.5°	6468.6	6138.5	5662.6	5054.6	4498.8	4173.3	3845.9	3547.0	3192.1	2765.3	2354.9
-45°	5501.9	5025.3	4545.3	4278.0	3991.6	3726.2	3458.5	3115.0	2727.3	2354.9	1978.6
-47.5°	4427.1	4218.8	3990.0	3771.8	3549.4	3293.7	2962.2	2616.6	2287.4	1955.9	1714.5
-50°	3847.2	3686.8	3510.3	3301.3	3027.9	2736.2	2447.6	2153.6	1888.1	1669.8	1463.5
-52.5°	3339.9	3144.1	2928.4	2693.5	2459.4	2214.7	1962.7	1776.3	1581.1	1413.3	1252.5
-55°	2673.8	2507.9	2328.3	2132.6	1939.6	1785.6	1622.1	1468.2	1330.5	1186.6	1043.1
-57.5°	2064.5	1935.7	1823.6	1701.3	1569.1	1451.5	1337.0	1216.0	1092.8	965.3	834.5
-60°	1622.1	1529.7	1451.5	1366.6	1274.8	1176.6	1076.1	969.7	857.9	750.5	638.8
-62.5°	1282.5	1218.9	1149.9	1076.1	996.1	910.3	821.9	733.3	640.0	545.8	474.4
-65°	973.5	918.6	857.9	796.8	730.9	660.1	584.5	519.3	460.3	398.4	336.0
-67.5°	683.5	638.8	589.3	540.7	499.5	455.2	408.0	357.9	314.0	271.5	227.1
-70°	448.3	420.8	390.2	356.7	325.7	295.8	263.8	229.9	194.1	165.4	139.9
-72.5°	273.1	254.8	234.5	212.2	188.0	169.0	151.0	131.8	111.6	90.3	74.2
-75°	143.3	133.2	122.0	109.7	96.3	81.9	73.6	68.0	62.0	55.7	49.1
-77.5°	66.3	63.4	60.2	56.7	52.8	48.7	44.3	40.4	38.0	35.5	32.9
-80°	37.0	35.9	34.7	33.3	31.9	30.3	28.6	26.8	24.9	23.5	22.7
-82.5°	22.7	22.4	22.0	21.7	21.2	20.8	20.3	19.8	19.2	18.7	18.1
-85°	17.1	17.0	17.0	16.9	16.8	16.8	16.7	16.6	16.5	16.4	16.3
-87.5°	14.7	14.4	14.1	13.8	13.5	13.2	12.8	12.4	11.9	11.5	11.0
-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: P1212106 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-1000R-40-90-1S-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°	10.5	10.0	9.5	8.9	8.4	7.8	7.2	6.6	6.0	5.3	4.7
85°	16.2	16.1	16.0	15.8	15.7	15.6	14.4	13.2	11.9	10.7	9.4
82.5°	17.5	17.2	17.0	16.8	16.6	16.4	16.2	16.1	15.8	15.6	14.0
80°	21.9	21.0	20.1	19.2	18.2	17.3	17.0	16.8	16.5	16.2	15.9
77.5°	30.2	27.3	24.4	22.9	21.7	20.5	19.2	18.0	17.1	16.8	16.4
75°	42.2	38.3	34.7	31.1	27.3	23.7	22.2	20.7	19.1	17.5	16.9
72.5°	66.1	57.8	49.1	40.7	36.3	31.8	27.2	23.4	21.5	19.7	17.8
70°	113.3	85.8	70.4	60.2	49.7	40.1	34.9	29.5	24.0	21.8	19.7
67.5°	181.2	150.1	118.0	84.9	68.2	56.1	43.8	36.4	30.3	24.0	21.5
65°	284.5	231.1	178.1	141.3	103.5	73.0	59.3	45.4	36.4	29.5	23.4
62.5°	400.3	328.1	267.4	205.0	155.4	112.9	74.7	59.3	43.8	34.9	27.2
60°	532.2	448.3	361.8	289.4	219.6	160.1	112.9	73.0	56.1	40.1	31.8
57.5°	708.6	578.5	477.4	381.1	296.7	219.6	155.4	103.5	68.2	49.7	36.3
55°	894.5	750.9	606.5	487.1	381.1	289.4	205.0	141.3	84.9	60.2	40.7
52.5°	1090.1	925.6	765.0	606.5	477.4	361.8	267.4	178.1	118.0	70.4	49.1
50°	1285.7	1105.9	925.6	750.9	578.5	448.3	328.1	231.1	150.1	85.8	57.8
47.5°	1480.3	1285.7	1090.1	894.5	708.6	532.2	400.3	284.5	181.2	113.3	66.1
45°	1714.5	1463.5	1252.5	1043.1	834.5	638.8	474.4	336.0	227.1	139.9	74.2
42.5°	1955.9	1669.8	1413.3	1186.6	965.3	750.5	545.8	398.4	271.5	165.4	90.3
40°	2287.4	1888.1	1581.1	1330.5	1092.8	857.9	640.0	460.3	314.0	194.1	111.6
37.5°	2616.6	2153.6	1776.3	1468.2	1216.0	969.7	733.3	519.3	357.9	229.9	131.8
35°	2962.2	2447.6	1962.7	1622.1	1337.0	1076.1	821.9	584.5	408.0	263.8	151.0
32.5°	3293.7	2736.2	2214.7	1785.6	1451.5	1176.6	910.3	660.1	455.2	295.8	169.0
30°	3549.4	3027.9	2459.4	1939.6	1569.1	1274.8	996.1	730.9	499.5	325.7	188.0
27.5°	3771.8	3301.3	2693.5	2132.6	1701.3	1366.6	1076.1	796.8	540.7	356.7	212.2
25°	3990.0	3510.3	2928.4	2328.3	1823.6	1451.5	1149.9	857.9	589.3	390.2	234.5
22.5°	4218.8	3686.8	3144.1	2507.9	1935.7	1529.7	1218.9	918.6	638.8	420.8	254.8
20°	4427.1	3847.2	3339.9	2673.8	2064.5	1622.1	1282.5	973.5	683.5	448.3	273.1
17.5°	4647.7	4004.3	3479.6	2834.2	2197.2	1704.4	1339.1	1022.3	723.3	472.8	289.4
15°	4995.1	4155.3	3595.3	2974.7	2313.3	1776.3	1388.6	1064.9	758.0	494.1	303.6
12.5°	5292.8	4284.6	3694.2	3094.7	2412.4	1837.7	1430.8	1101.1	787.5	512.3	315.6
10°	5539.0	4391.3	3775.8	3193.6	2494.0	1888.1	1465.4	1130.9	811.7	527.2	325.5
7.5°	5732.1	4475.0	3839.7	3271.0	2557.8	1927.6	1492.5	1154.2	830.7	538.9	333.2
5°	5871.0	4535.1	3885.6	3326.5	2603.6	1955.9	1511.9	1170.9	844.2	547.2	338.8
2.5°	5954.6	4571.3	3913.3	3359.9	2631.1	1972.9	1523.6	1181.0	852.4	552.2	342.1
0°	5982.6	4583.4	3922.5	3371.1	2640.3	1978.6	1527.5	1184.3	855.1	553.9	343.2
-2.5°	5954.6	4571.3	3913.3	3359.9	2631.1	1972.9	1523.6	1181.0	852.4	552.2	342.1
-5°	5871.0	4535.1	3885.6	3326.5	2603.6	1955.9	1511.9	1170.9	844.2	547.2	338.8
-7.5°	5732.1	4475.0	3839.7	3271.0	2557.8	1927.6	1492.5	1154.2	830.7	538.9	333.2
-10°	5539.0	4391.3	3775.8	3193.6	2494.0	1888.1	1465.4	1130.9	811.7	527.2	325.5
-12.5°	5292.8	4284.6	3694.2	3094.7	2412.4	1837.7	1430.8	1101.1	787.5	512.3	315.6
-15°	4995.1	4155.3	3595.3	2974.7	2313.3	1776.3	1388.6	1064.9	758.0	494.1	303.6
-17.5°	4647.7	4004.3	3479.6	2834.2	2197.2	1704.4	1339.1	1022.3	723.3	472.8	289.4
-20°	4427.1	3847.2	3339.9	2673.8	2064.5	1622.1	1282.5	973.5	683.5	448.3	273.1



REPORT NUMBER: P1212106 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4218.8	3686.8	3144.1	2507.9	1935.7	1529.7	1218.9	918.6	638.8	420.8	254.8
-25°	3990.0	3510.3	2928.4	2328.3	1823.6	1451.5	1149.9	857.9	589.3	390.2	234.5
-27.5°	3771.8	3301.3	2693.5	2132.6	1701.3	1366.6	1076.1	796.8	540.7	356.7	212.2
-30°	3549.4	3027.9	2459.4	1939.6	1569.1	1274.8	996.1	730.9	499.5	325.7	188.0
-32.5°	3293.7	2736.2	2214.7	1785.6	1451.5	1176.6	910.3	660.1	455.2	295.8	169.0
-35°	2962.2	2447.6	1962.7	1622.1	1337.0	1076.1	821.9	584.5	408.0	263.8	151.0
-37.5°	2616.6	2153.6	1776.3	1468.2	1216.0	969.7	733.3	519.3	357.9	229.9	131.8
-40°	2287.4	1888.1	1581.1	1330.5	1092.8	857.9	640.0	460.3	314.0	194.1	111.6
-42.5°	1955.9	1669.8	1413.3	1186.6	965.3	750.5	545.8	398.4	271.5	165.4	90.3
-45°	1714.5	1463.5	1252.5	1043.1	834.5	638.8	474.4	336.0	227.1	139.9	74.2
-47.5°	1480.3	1285.7	1090.1	894.5	708.6	532.2	400.3	284.5	181.2	113.3	66.1
-50°	1285.7	1105.9	925.6	750.9	578.5	448.3	328.1	231.1	150.1	85.8	57.8
-52.5°	1090.1	925.6	765.0	606.5	477.4	361.8	267.4	178.1	118.0	70.4	49.1
-55°	894.5	750.9	606.5	487.1	381.1	289.4	205.0	141.3	84.9	60.2	40.7
-57.5°	708.6	578.5	477.4	381.1	296.7	219.6	155.4	103.5	68.2	49.7	36.3
-60°	532.2	448.3	361.8	289.4	219.6	160.1	112.9	73.0	56.1	40.1	31.8
-62.5°	400.3	328.1	267.4	205.0	155.4	112.9	74.7	59.3	43.8	34.9	27.2
-65°	284.5	231.1	178.1	141.3	103.5	73.0	59.3	45.4	36.4	29.5	23.4
-67.5°	181.2	150.1	118.0	84.9	68.2	56.1	43.8	36.4	30.3	24.0	21.5
-70°	113.3	85.8	70.4	60.2	49.7	40.1	34.9	29.5	24.0	21.8	19.7
-72.5°	66.1	57.8	49.1	40.7	36.3	31.8	27.2	23.4	21.5	19.7	17.8
-75°	42.2	38.3	34.7	31.1	27.3	23.7	22.2	20.7	19.1	17.5	16.9
-77.5°	30.2	27.3	24.4	22.9	21.7	20.5	19.2	18.0	17.1	16.8	16.4
-80°	21.9	21.0	20.1	19.2	18.2	17.3	17.0	16.8	16.5	16.2	15.9
-82.5°	17.5	17.2	17.0	16.8	16.6	16.4	16.2	16.1	15.8	15.6	14.0
-85°	16.2	16.1	16.0	15.8	15.7	15.6	14.4	13.2	11.9	10.7	9.4
-87.5°	10.5	10.0	9.5	8.9	8.4	7.8	7.2	6.6	6.0	5.3	4.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1212106 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-1S-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°	4.0	3.4	2.7	2.0	1.4	0.7	0.0
85°	8.1	6.7	5.4	4.1	2.7	1.4	0.0
82.5°	12.1	10.1	8.1	6.1	4.1	2.0	0.0
80°	15.7	13.4	10.8	8.1	5.4	2.7	0.0
77.5°	16.1	15.7	13.4	10.1	6.7	3.4	0.0
75°	16.5	16.1	15.7	12.1	8.1	4.0	0.0
72.5°	16.9	16.4	15.9	14.0	9.4	4.7	0.0
70°	17.5	16.8	16.2	15.6	10.7	5.3	0.0
67.5°	19.1	17.1	16.5	15.8	11.9	6.0	0.0
65°	20.7	18.0	16.8	16.1	13.2	6.6	0.0
62.5°	22.2	19.2	17.0	16.2	14.4	7.2	0.0
60°	23.7	20.5	17.3	16.4	15.6	7.8	0.0
57.5°	27.3	21.7	18.2	16.6	15.7	8.4	0.0
55°	31.1	22.9	19.2	16.8	15.8	8.9	0.0
52.5°	34.7	24.4	20.1	17.0	16.0	9.5	0.0
50°	38.3	27.3	21.0	17.2	16.1	10.0	0.0
47.5°	42.2	30.2	21.9	17.5	16.2	10.5	0.0
45°	49.1	32.9	22.7	18.1	16.3	11.0	0.0
42.5°	55.7	35.5	23.5	18.7	16.4	11.5	0.0
40°	62.0	38.0	24.9	19.2	16.5	11.9	0.0
37.5°	68.0	40.4	26.8	19.8	16.6	12.4	0.0
35°	73.6	44.3	28.6	20.3	16.7	12.8	0.0
32.5°	81.9	48.7	30.3	20.8	16.8	13.2	0.0
30°	96.3	52.8	31.9	21.2	16.8	13.5	0.0
27.5°	109.7	56.7	33.3	21.7	16.9	13.8	0.0
25°	122.0	60.2	34.7	22.0	17.0	14.1	0.0
22.5°	133.2	63.4	35.9	22.4	17.0	14.4	0.0
20°	143.3	66.3	37.0	22.7	17.1	14.7	0.0
17.5°	152.2	68.9	38.0	23.0	17.1	14.9	0.0
15°	160.1	71.1	38.8	23.2	17.2	15.1	0.0
12.5°	166.7	73.0	39.5	23.4	17.2	15.2	0.0
10°	172.2	74.6	40.1	23.6	17.2	15.4	0.0
7.5°	176.4	75.8	40.6	23.7	17.3	15.5	0.0
5°	179.5	76.7	40.9	23.8	17.3	15.5	0.0
2.5°	181.3	77.2	41.1	23.9	17.3	15.6	0.0
0°	181.9	77.4	41.2	23.9	17.3	15.6	0.0
-2.5°	181.3	77.2	41.1	23.9	17.3	15.6	0.0
-5°	179.5	76.7	40.9	23.8	17.3	15.5	0.0
-7.5°	176.4	75.8	40.6	23.7	17.3	15.5	0.0
-10°	172.2	74.6	40.1	23.6	17.2	15.4	0.0
-12.5°	166.7	73.0	39.5	23.4	17.2	15.2	0.0
-15°	160.1	71.1	38.8	23.2	17.2	15.1	0.0
-17.5°	152.2	68.9	38.0	23.0	17.1	14.9	0.0
-20°	143.3	66.3	37.0	22.7	17.1	14.7	0.0



REPORT NUMBER: P1212106 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS12-1000R-40-90-1S-HEG

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	133.2	63.4	35.9	22.4	17.0	14.4	0.0
-25°	122.0	60.2	34.7	22.0	17.0	14.1	0.0
-27.5°	109.7	56.7	33.3	21.7	16.9	13.8	0.0
-30°	96.3	52.8	31.9	21.2	16.8	13.5	0.0
-32.5°	81.9	48.7	30.3	20.8	16.8	13.2	0.0
-35°	73.6	44.3	28.6	20.3	16.7	12.8	0.0
-37.5°	68.0	40.4	26.8	19.8	16.6	12.4	0.0
-40°	62.0	38.0	24.9	19.2	16.5	11.9	0.0
-42.5°	55.7	35.5	23.5	18.7	16.4	11.5	0.0
-45°	49.1	32.9	22.7	18.1	16.3	11.0	0.0
-47.5°	42.2	30.2	21.9	17.5	16.2	10.5	0.0
-50°	38.3	27.3	21.0	17.2	16.1	10.0	0.0
-52.5°	34.7	24.4	20.1	17.0	16.0	9.5	0.0
-55°	31.1	22.9	19.2	16.8	15.8	8.9	0.0
-57.5°	27.3	21.7	18.2	16.6	15.7	8.4	0.0
-60°	23.7	20.5	17.3	16.4	15.6	7.8	0.0
-62.5°	22.2	19.2	17.0	16.2	14.4	7.2	0.0
-65°	20.7	18.0	16.8	16.1	13.2	6.6	0.0
-67.5°	19.1	17.1	16.5	15.8	11.9	6.0	0.0
-70°	17.5	16.8	16.2	15.6	10.7	5.3	0.0
-72.5°	16.9	16.4	15.9	14.0	9.4	4.7	0.0
-75°	16.5	16.1	15.7	12.1	8.1	4.0	0.0
-77.5°	16.1	15.7	13.4	10.1	6.7	3.4	0.0
-80°	15.7	13.4	10.8	8.1	5.4	2.7	0.0
-82.5°	12.1	10.1	8.1	6.1	4.1	2.0	0.0
-85°	8.1	6.7	5.4	4.1	2.7	1.4	0.0
-87.5°	4.0	3.4	2.7	2.0	1.4	0.7	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)