

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: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-40-80-5S-HEG**

Issue Date: 11/14/2025

Test Information

Test Method: LM-79-08
Report Number: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/14/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: EPHESUS
Catalog Number: EPH-LS12-1000R-40-80-5S-HEG
Description: EPHESUS LS12 LUMINAIRE
(12) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

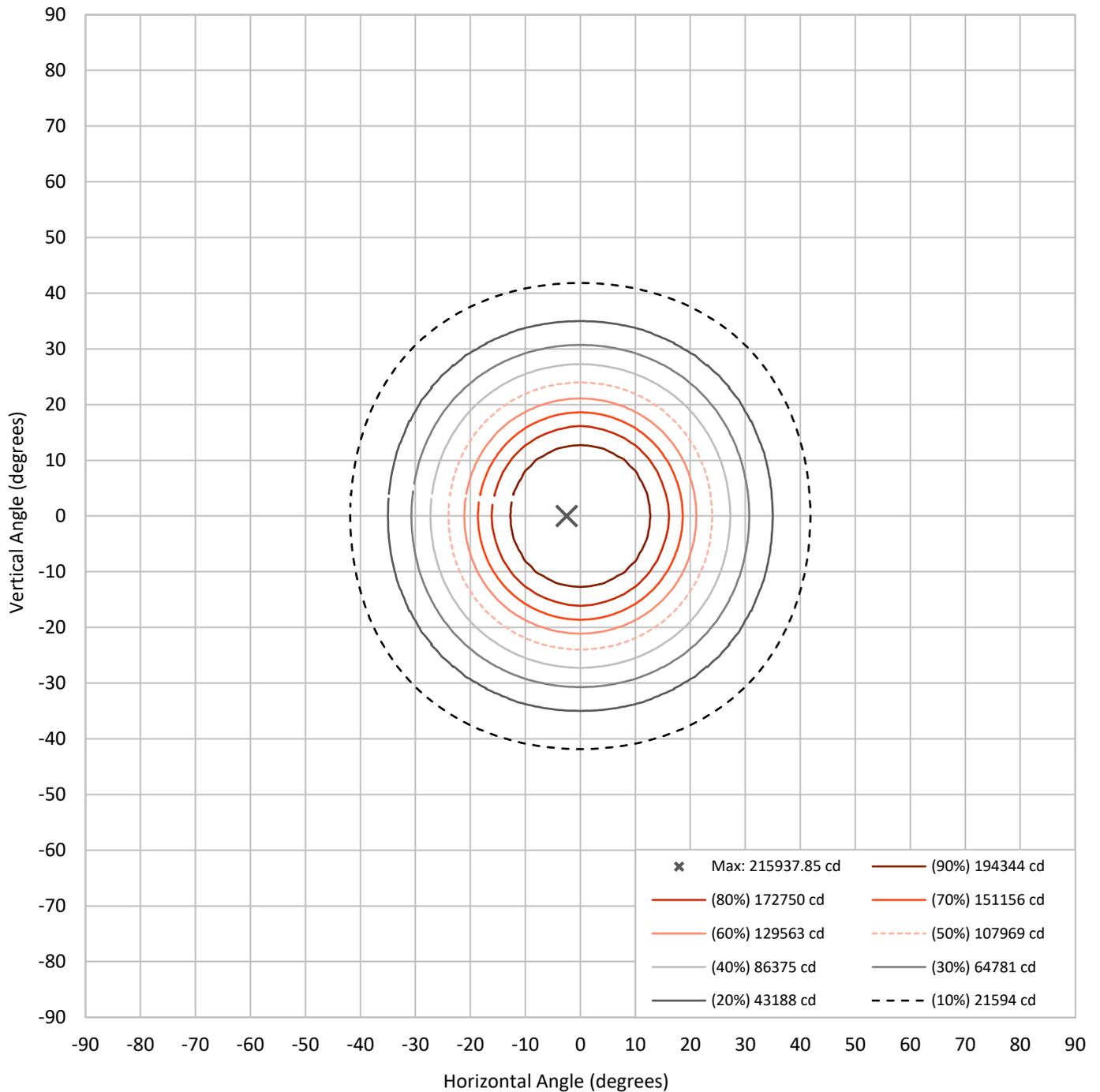
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	157950.3 lumens	Max Intensity:	215937.8 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	151.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	48°H x 47.7°V	Field Angle (10%):	83.7°H x 83.6°V
Beam Lumens:	89556.7 lumens	Field Lumens:	146917.5 lumens
Beam Efficiency:	56.7%	Field Efficiency:	93.0%

Input Watts (W): 1041
Input Voltage (V): NR
Input Current (A_{in}): 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

REPORT NUMBER: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-HEG

Iso-Candela Plot





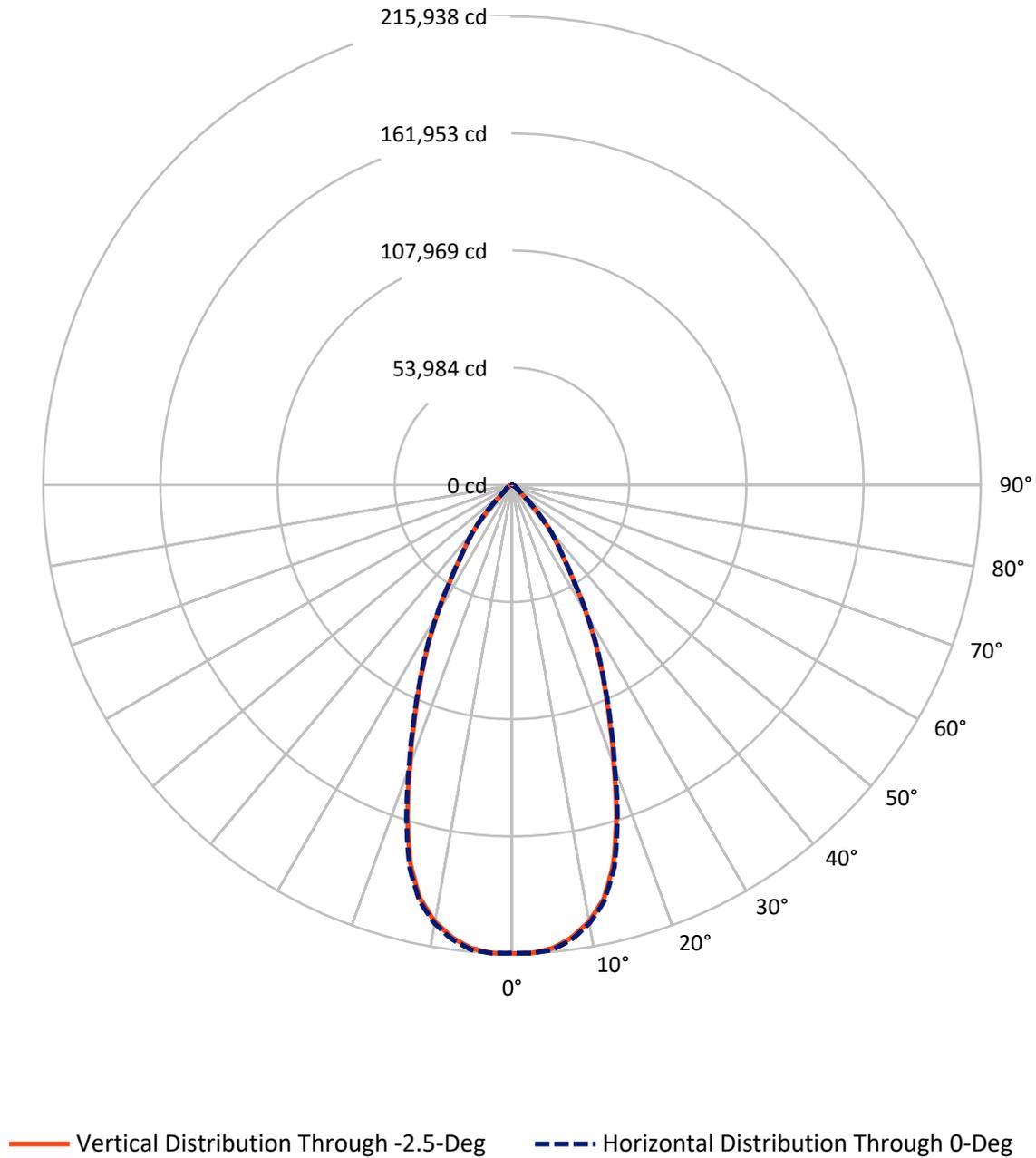
REPORT NUMBER: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-HEG

Lumen Table

90															90				
80	0.2	1.0		4.4		10.9		14.2		10.9		4.4		1.0	0.2				
70															70				
60	0.5	0.7	2.8	7.8	16.2	26.4	35.5	40.6	40.6	35.5	26.4	16.2	7.8	2.8	0.7	0.5			
50		2.1	9.2	25.2	47.7	70.0	86.4	95.6	95.6	86.4	70.0	47.7	25.2	9.2	2.1				
40	1.5	4.8	20.6	49.6	81.5	141.0	273.5	385.3	385.3	273.5	141.0	81.5	49.6	20.6	4.8	1.5			
30		8.7	33.8	70.6	189.5	575.2	1009.2	1308.1	1308.1	1009.2	575.2	189.5	70.6	33.8	8.7				
20	3.2	12.8	44.8	111.3	523.0	1250.0	2226.8	2961.3	2961.3	2226.8	1250.0	523.0	111.3	44.8	12.8	3.2			
10		16.1	51.8	204.6	861.8	2095.4	3810.7	5169.9	5169.9	3810.7	2095.4	861.8	204.6	51.8	16.1				
0	4.0	17.9	55.6	280.3	1084.7	2705.1	5019.5	6336.5	6336.5	5019.5	2705.1	1084.7	280.3	55.6	17.9	4.0			
-10		17.9	55.6	280.3	1084.7	2705.1	5019.5	6336.5	6336.5	5019.5	2705.1	1084.7	280.3	55.6	17.9				
-20	3.2	16.1	51.8	204.6	861.8	2095.4	3810.7	5169.9	5169.9	3810.7	2095.4	861.8	204.6	51.8	16.1	3.2			
-30		12.8	44.8	111.3	523.0	1250.0	2226.8	2961.3	2961.3	2226.8	1250.0	523.0	111.3	44.8	12.8				
-40	1.5	8.7	33.8	70.6	189.5	575.2	1009.2	1308.1	1308.1	1009.2	575.2	189.5	70.6	33.8	8.7	1.5			
-50		4.8	20.6	49.6	81.5	141.0	273.5	385.3	385.3	273.5	141.0	81.5	49.6	20.6	4.8				
-60	0.5	2.1	9.2	25.2	47.7	70.0	86.4	95.6	95.6	86.4	70.0	47.7	25.2	9.2	2.1	0.5			
-70		0.7	2.8	7.8	16.2	26.4	35.5	40.6	40.6	35.5	26.4	16.2	7.8	2.8	0.7				
-80															-80				
-90	0.2	1.0		4.4		10.9		14.2		10.9		4.4		1.0	0.2				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

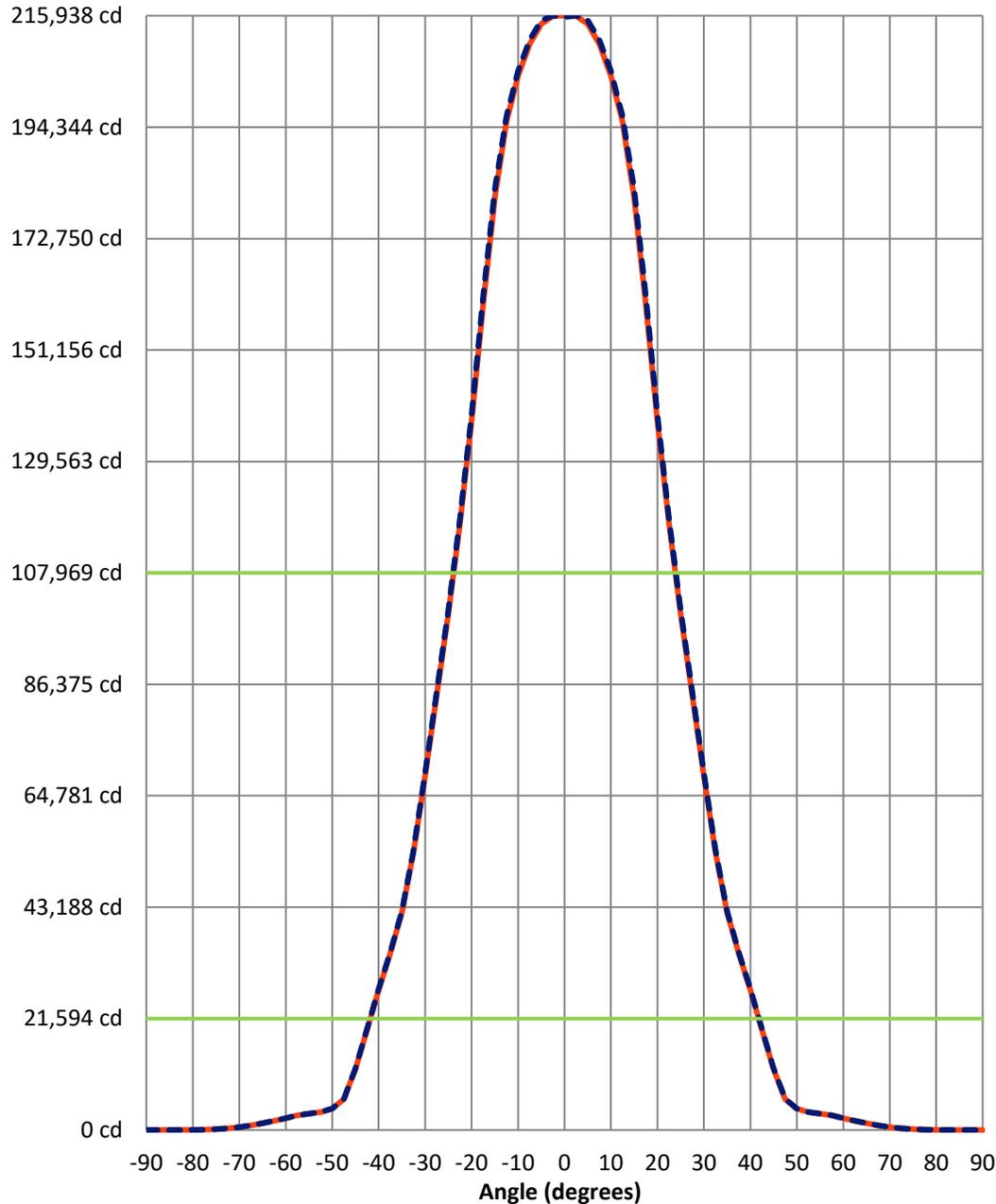
REPORT NUMBER: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-HEG

Luminous Intensity Polar Plot



REPORT NUMBER: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-HEG

Luminous Intensity Plot



Beam:
 H Angle: 48°
 V Angle: 47.7°
 Lumens: 89556.7
 Efficiency: 56.7%

Field:
 H Angle: 83.7°
 V Angle: 83.6°
 Lumens: 146917.5
 Efficiency: 93.0%

Spill:
 Lumens: 11032.7
 Efficiency: 7.0%

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



REPORT NUMBER: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-HEG

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	0.9	1.3	1.8	2.2	2.7	3.1	3.5	3.9	4.4
85°	0.0	0.9	1.8	2.7	3.6	4.5	5.3	6.2	7.0	7.9	8.7
82.5°	0.0	1.3	2.7	4.0	5.4	6.7	8.0	9.3	10.3	10.6	10.8
80°	0.0	1.8	3.6	5.4	7.1	8.9	10.4	10.7	11.0	11.3	11.6
77.5°	0.0	2.2	4.5	6.7	8.9	10.4	10.8	11.2	11.6	12.0	13.0
75°	0.0	2.7	5.3	8.0	10.4	10.8	11.3	11.8	12.4	14.3	16.1
72.5°	0.0	3.1	6.2	9.3	10.7	11.2	11.8	12.8	14.9	17.1	19.2
70°	0.0	3.5	7.0	10.3	11.0	11.6	12.4	14.9	17.4	20.0	26.5
67.5°	0.0	3.9	7.9	10.6	11.3	12.0	14.3	17.1	20.0	27.4	34.7
65°	0.0	4.4	8.7	10.8	11.6	13.0	16.1	19.2	26.5	34.7	45.3
62.5°	0.0	4.8	9.5	11.0	11.9	14.4	17.9	23.8	32.9	43.4	61.7
60°	0.0	5.1	10.3	11.2	12.2	15.9	19.6	29.3	39.1	57.9	77.7
57.5°	0.0	5.5	10.4	11.5	13.3	17.3	23.9	34.6	50.4	72.0	106.3
55°	0.0	5.9	10.6	11.7	14.4	18.7	28.3	39.8	62.7	89.6	140.3
52.5°	0.0	6.3	10.7	11.9	15.4	20.4	32.7	49.7	74.6	119.3	173.4
50°	0.0	6.6	10.8	12.1	16.5	23.9	36.9	59.8	90.3	148.2	223.6
47.5°	0.0	7.0	11.0	12.4	17.5	27.3	41.6	69.6	115.1	176.2	274.3
45°	0.0	7.3	11.1	13.1	18.4	30.5	49.6	79.0	139.0	219.7	323.3
42.5°	0.0	7.6	11.2	13.8	19.4	33.7	57.4	94.4	162.0	262.0	390.6
40°	0.0	7.9	11.3	14.4	21.0	36.6	64.7	113.6	188.4	302.4	458.3
37.5°	0.0	8.2	11.4	15.1	23.2	39.5	71.8	131.8	222.5	346.2	522.8
35°	0.0	8.4	11.5	15.7	25.4	44.0	78.4	149.0	254.7	401.1	595.2
32.5°	0.0	8.7	11.6	16.2	27.4	49.2	86.9	165.2	285.1	452.7	680.6
30°	0.0	8.9	11.7	16.7	29.3	54.0	99.8	182.6	313.6	501.1	760.7
27.5°	0.0	9.1	11.8	17.2	31.0	58.5	111.8	205.6	345.0	546.1	835.2
25°	0.0	9.3	11.8	17.7	32.6	62.7	122.9	226.8	381.6	600.6	904.7
22.5°	0.0	9.5	11.9	18.1	34.1	66.4	133.0	246.1	415.0	656.6	983.0
20°	0.0	9.7	12.0	18.4	35.4	69.8	142.1	263.5	445.1	707.1	1053.7
17.5°	0.0	9.8	12.0	18.7	36.5	72.8	150.1	279.0	471.9	752.1	1116.6
15°	0.0	9.9	12.1	19.0	37.6	75.5	157.2	292.5	495.3	791.3	1171.5
12.5°	0.0	10.1	12.1	19.3	38.4	77.7	163.1	304.0	515.1	824.6	1218.2
10°	0.0	10.1	12.1	19.5	39.1	79.5	168.0	313.4	531.4	852.1	1256.6
7.5°	0.0	10.2	12.2	19.6	39.7	81.0	171.9	320.7	544.2	873.5	1286.6
5°	0.0	10.3	12.2	19.7	40.1	82.0	174.6	326.0	553.3	888.8	1308.2
2.5°	0.0	10.3	12.2	19.8	40.3	82.6	176.3	329.1	558.8	898.0	1321.1
0°	0.0	10.3	12.2	19.8	40.4	82.8	176.8	330.2	560.6	901.1	1325.4
-2.5°	0.0	10.3	12.2	19.8	40.3	82.6	176.3	329.1	558.8	898.0	1321.1
-5°	0.0	10.3	12.2	19.7	40.1	82.0	174.6	326.0	553.3	888.8	1308.2
-7.5°	0.0	10.2	12.2	19.6	39.7	81.0	171.9	320.7	544.2	873.5	1286.6
-10°	0.0	10.1	12.1	19.5	39.1	79.5	168.0	313.4	531.4	852.1	1256.6
-12.5°	0.0	10.1	12.1	19.3	38.4	77.7	163.1	304.0	515.1	824.6	1218.2
-15°	0.0	9.9	12.1	19.0	37.6	75.5	157.2	292.5	495.3	791.3	1171.5
-17.5°	0.0	9.8	12.0	18.7	36.5	72.8	150.1	279.0	471.9	752.1	1116.6
-20°	0.0	9.7	12.0	18.4	35.4	69.8	142.1	263.5	445.1	707.1	1053.7



REPORT NUMBER: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	9.5	11.9	18.1	34.1	66.4	133.0	246.1	415.0	656.6	983.0
-25°	0.0	9.3	11.8	17.7	32.6	62.7	122.9	226.8	381.6	600.6	904.7
-27.5°	0.0	9.1	11.8	17.2	31.0	58.5	111.8	205.6	345.0	546.1	835.2
-30°	0.0	8.9	11.7	16.7	29.3	54.0	99.8	182.6	313.6	501.1	760.7
-32.5°	0.0	8.7	11.6	16.2	27.4	49.2	86.9	165.2	285.1	452.7	680.6
-35°	0.0	8.4	11.5	15.7	25.4	44.0	78.4	149.0	254.7	401.1	595.2
-37.5°	0.0	8.2	11.4	15.1	23.2	39.5	71.8	131.8	222.5	346.2	522.8
-40°	0.0	7.9	11.3	14.4	21.0	36.6	64.7	113.6	188.4	302.4	458.3
-42.5°	0.0	7.6	11.2	13.8	19.4	33.7	57.4	94.4	162.0	262.0	390.6
-45°	0.0	7.3	11.1	13.1	18.4	30.5	49.6	79.0	139.0	219.7	323.3
-47.5°	0.0	7.0	11.0	12.4	17.5	27.3	41.6	69.6	115.1	176.2	274.3
-50°	0.0	6.6	10.8	12.1	16.5	23.9	36.9	59.8	90.3	148.2	223.6
-52.5°	0.0	6.3	10.7	11.9	15.4	20.4	32.7	49.7	74.6	119.3	173.4
-55°	0.0	5.9	10.6	11.7	14.4	18.7	28.3	39.8	62.7	89.6	140.3
-57.5°	0.0	5.5	10.4	11.5	13.3	17.3	23.9	34.6	50.4	72.0	106.3
-60°	0.0	5.1	10.3	11.2	12.2	15.9	19.6	29.3	39.1	57.9	77.7
-62.5°	0.0	4.8	9.5	11.0	11.9	14.4	17.9	23.8	32.9	43.4	61.7
-65°	0.0	4.4	8.7	10.8	11.6	13.0	16.1	19.2	26.5	34.7	45.3
-67.5°	0.0	3.9	7.9	10.6	11.3	12.0	14.3	17.1	20.0	27.4	34.7
-70°	0.0	3.5	7.0	10.3	11.0	11.6	12.4	14.9	17.4	20.0	26.5
-72.5°	0.0	3.1	6.2	9.3	10.7	11.2	11.8	12.8	14.9	17.1	19.2
-75°	0.0	2.7	5.3	8.0	10.4	10.8	11.3	11.8	12.4	14.3	16.1
-77.5°	0.0	2.2	4.5	6.7	8.9	10.4	10.8	11.2	11.6	12.0	13.0
-80°	0.0	1.8	3.6	5.4	7.1	8.9	10.4	10.7	11.0	11.3	11.6
-82.5°	0.0	1.3	2.7	4.0	5.4	6.7	8.0	9.3	10.3	10.6	10.8
-85°	0.0	0.9	1.8	2.7	3.6	4.5	5.3	6.2	7.0	7.9	8.7
-87.5°	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.5	3.9	4.4
-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: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-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°	4.8	5.1	5.5	5.9	6.3	6.6	7.0	7.3	7.6	7.9	8.2
85°	9.5	10.3	10.4	10.6	10.7	10.8	11.0	11.1	11.2	11.3	11.4
82.5°	11.0	11.2	11.5	11.7	11.9	12.1	12.4	13.1	13.8	14.4	15.1
80°	11.9	12.2	13.3	14.4	15.4	16.5	17.5	18.4	19.4	21.0	23.2
77.5°	14.4	15.9	17.3	18.7	20.4	23.9	27.3	30.5	33.7	36.6	39.5
75°	17.9	19.6	23.9	28.3	32.7	36.9	41.6	49.6	57.4	64.7	71.8
72.5°	23.8	29.3	34.6	39.8	49.7	59.8	69.6	79.0	94.4	113.6	131.8
70°	32.9	39.1	50.4	62.7	74.6	90.3	115.1	139.0	162.0	188.4	222.5
67.5°	43.4	57.9	72.0	89.6	119.3	148.2	176.2	219.7	262.0	302.4	346.2
65°	61.7	77.7	106.3	140.3	173.4	223.6	274.3	323.3	390.6	458.3	522.8
62.5°	79.6	114.7	152.9	198.8	258.1	315.8	392.6	473.7	551.7	658.0	763.5
60°	114.7	157.2	212.6	279.0	350.6	445.1	536.9	656.6	782.8	904.7	1048.9
57.5°	152.9	212.6	286.0	371.6	476.9	588.4	735.5	877.8	1043.2	1207.5	1368.5
55°	198.8	279.0	371.6	487.6	620.1	783.2	951.9	1143.4	1328.5	1524.1	1711.3
52.5°	258.1	350.6	476.9	620.1	799.2	992.0	1204.0	1418.1	1636.7	1851.8	2070.0
50°	315.8	445.1	588.4	783.2	992.0	1224.3	1463.2	1704.9	1950.9	2195.0	2445.8
47.5°	392.6	536.9	735.5	951.9	1204.0	1463.2	1727.8	2000.9	2270.7	2560.4	2842.0
45°	473.7	656.6	877.8	1143.4	1418.1	1704.9	2000.9	2296.1	2618.1	2900.4	3070.1
42.5°	551.7	782.8	1043.2	1328.5	1636.7	1950.9	2270.7	2618.1	2917.0	3103.8	3279.4
40°	658.0	904.7	1207.5	1524.1	1851.8	2195.0	2560.4	2900.4	3103.8	3295.8	3477.9
37.5°	763.5	1048.9	1368.5	1711.3	2070.0	2445.8	2842.0	3070.1	3279.4	3477.9	3896.2
35°	863.6	1185.9	1532.9	1897.6	2278.3	2697.4	3003.2	3230.5	3444.6	3858.1	4563.5
32.5°	972.3	1315.5	1688.6	2080.4	2498.2	2904.3	3148.3	3378.5	3744.6	4350.0	5657.7
30°	1082.9	1448.4	1838.4	2252.5	2707.5	3032.0	3280.7	3557.9	4079.2	5331.2	8157.9
27.5°	1185.9	1573.2	1986.1	2427.9	2885.6	3151.7	3403.6	3852.2	4794.5	6751.2	11299.6
25°	1281.1	1688.6	2122.8	2595.3	2988.4	3259.1	3556.3	4126.9	5605.5	9509.5	14924.8
22.5°	1372.4	1794.4	2248.1	2749.0	3082.8	3356.6	3791.4	4755.4	7059.4	12104.0	18474.4
20°	1458.9	1897.6	2369.6	2877.0	3168.5	3445.3	4005.4	5391.2	9235.0	15132.5	21769.1
17.5°	1535.9	1989.6	2483.2	2947.2	3242.1	3571.0	4251.8	5962.1	11193.0	17864.7	24765.0
15°	1603.1	2070.0	2582.5	3008.7	3306.1	3726.2	4715.2	7403.8	13203.5	20291.4	27415.1
12.5°	1660.4	2138.6	2667.3	3061.2	3360.8	3859.0	5112.3	8771.6	15121.1	22404.6	29519.3
10°	1707.5	2195.0	2737.1	3104.5	3405.9	3968.7	5440.6	9904.2	16711.5	24160.4	31271.5
7.5°	1744.3	2239.1	2791.7	3138.4	3441.2	4054.7	5698.2	10793.7	17962.2	25543.5	32654.4
5°	1770.7	2270.7	2830.9	3162.7	3466.5	4116.5	5883.4	11433.9	18863.2	26541.1	33653.2
2.5°	1786.6	2289.8	2854.4	3177.3	3481.8	4153.7	5995.0	11819.9	19406.9	27143.6	34257.1
0°	1791.9	2296.1	2862.3	3182.2	3486.9	4166.1	6032.3	11948.9	19588.7	27345.1	34459.2
-2.5°	1786.6	2289.8	2854.4	3177.3	3481.8	4153.7	5995.0	11819.9	19406.9	27143.6	34257.1
-5°	1770.7	2270.7	2830.9	3162.7	3466.5	4116.5	5883.4	11433.9	18863.2	26541.1	33653.2
-7.5°	1744.3	2239.1	2791.7	3138.4	3441.2	4054.7	5698.2	10793.7	17962.2	25543.5	32654.4
-10°	1707.5	2195.0	2737.1	3104.5	3405.9	3968.7	5440.6	9904.2	16711.5	24160.4	31271.5
-12.5°	1660.4	2138.6	2667.3	3061.2	3360.8	3859.0	5112.3	8771.6	15121.1	22404.6	29519.3
-15°	1603.1	2070.0	2582.5	3008.7	3306.1	3726.2	4715.2	7403.8	13203.5	20291.4	27415.1
-17.5°	1535.9	1989.6	2483.2	2947.2	3242.1	3571.0	4251.8	5962.1	11193.0	17864.7	24765.0
-20°	1458.9	1897.6	2369.6	2877.0	3168.5	3445.3	4005.4	5391.2	9235.0	15132.5	21769.1



REPORT NUMBER: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1372.4	1794.4	2248.1	2749.0	3082.8	3356.6	3791.4	4755.4	7059.4	12104.0	18474.4
-25°	1281.1	1688.6	2122.8	2595.3	2988.4	3259.1	3556.3	4126.9	5605.5	9509.5	14924.8
-27.5°	1185.9	1573.2	1986.1	2427.9	2885.6	3151.7	3403.6	3852.2	4794.5	6751.2	11299.6
-30°	1082.9	1448.4	1838.4	2252.5	2707.5	3032.0	3280.7	3557.9	4079.2	5331.2	8157.9
-32.5°	972.3	1315.5	1688.6	2080.4	2498.2	2904.3	3148.3	3378.5	3744.6	4350.0	5657.7
-35°	863.6	1185.9	1532.9	1897.6	2278.3	2697.4	3003.2	3230.5	3444.6	3858.1	4563.5
-37.5°	763.5	1048.9	1368.5	1711.3	2070.0	2445.8	2842.0	3070.1	3279.4	3477.9	3896.2
-40°	658.0	904.7	1207.5	1524.1	1851.8	2195.0	2560.4	2900.4	3103.8	3295.8	3477.9
-42.5°	551.7	782.8	1043.2	1328.5	1636.7	1950.9	2270.7	2618.1	2917.0	3103.8	3279.4
-45°	473.7	656.6	877.8	1143.4	1418.1	1704.9	2000.9	2296.1	2618.1	2900.4	3070.1
-47.5°	392.6	536.9	735.5	951.9	1204.0	1463.2	1727.8	2000.9	2270.7	2560.4	2842.0
-50°	315.8	445.1	588.4	783.2	992.0	1224.3	1463.2	1704.9	1950.9	2195.0	2445.8
-52.5°	258.1	350.6	476.9	620.1	799.2	992.0	1204.0	1418.1	1636.7	1851.8	2070.0
-55°	198.8	279.0	371.6	487.6	620.1	783.2	951.9	1143.4	1328.5	1524.1	1711.3
-57.5°	152.9	212.6	286.0	371.6	476.9	588.4	735.5	877.8	1043.2	1207.5	1368.5
-60°	114.7	157.2	212.6	279.0	350.6	445.1	536.9	656.6	782.8	904.7	1048.9
-62.5°	79.6	114.7	152.9	198.8	258.1	315.8	392.6	473.7	551.7	658.0	763.5
-65°	61.7	77.7	106.3	140.3	173.4	223.6	274.3	323.3	390.6	458.3	522.8
-67.5°	43.4	57.9	72.0	89.6	119.3	148.2	176.2	219.7	262.0	302.4	346.2
-70°	32.9	39.1	50.4	62.7	74.6	90.3	115.1	139.0	162.0	188.4	222.5
-72.5°	23.8	29.3	34.6	39.8	49.7	59.8	69.6	79.0	94.4	113.6	131.8
-75°	17.9	19.6	23.9	28.3	32.7	36.9	41.6	49.6	57.4	64.7	71.8
-77.5°	14.4	15.9	17.3	18.7	20.4	23.9	27.3	30.5	33.7	36.6	39.5
-80°	11.9	12.2	13.3	14.4	15.4	16.5	17.5	18.4	19.4	21.0	23.2
-82.5°	11.0	11.2	11.5	11.7	11.9	12.1	12.4	13.1	13.8	14.4	15.1
-85°	9.5	10.3	10.4	10.6	10.7	10.8	11.0	11.1	11.2	11.3	11.4
-87.5°	4.8	5.1	5.5	5.9	6.3	6.6	7.0	7.3	7.6	7.9	8.2
-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: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	8.7	8.9	9.1	9.3	9.5	9.7	9.8	9.9	10.1	10.1
85°	11.5	11.6	11.7	11.8	11.8	11.9	12.0	12.0	12.1	12.1	12.1
82.5°	15.7	16.2	16.7	17.2	17.7	18.1	18.4	18.7	19.0	19.3	19.5
80°	25.4	27.4	29.3	31.0	32.6	34.1	35.4	36.5	37.6	38.4	39.1
77.5°	44.0	49.2	54.0	58.5	62.7	66.4	69.8	72.8	75.5	77.7	79.5
75°	78.4	86.9	99.8	111.8	122.9	133.0	142.1	150.1	157.2	163.1	168.0
72.5°	149.0	165.2	182.6	205.6	226.8	246.1	263.5	279.0	292.5	304.0	313.4
70°	254.7	285.1	313.6	345.0	381.6	415.0	445.1	471.9	495.3	515.1	531.4
67.5°	401.1	452.7	501.1	546.1	600.6	656.6	707.1	752.1	791.3	824.6	852.1
65°	595.2	680.6	760.7	835.2	904.7	983.0	1053.7	1116.6	1171.5	1218.2	1256.6
62.5°	863.6	972.3	1082.9	1185.9	1281.1	1372.4	1458.9	1535.9	1603.1	1660.4	1707.5
60°	1185.9	1315.5	1448.4	1573.2	1688.6	1794.4	1897.6	1989.6	2070.0	2138.6	2195.0
57.5°	1532.9	1688.6	1838.4	1986.1	2122.8	2248.1	2369.6	2483.2	2582.5	2667.3	2737.1
55°	1897.6	2080.4	2252.5	2427.9	2595.3	2749.0	2877.0	2947.2	3008.7	3061.2	3104.5
52.5°	2278.3	2498.2	2707.5	2885.6	2988.4	3082.8	3168.5	3242.1	3306.1	3360.8	3405.9
50°	2697.4	2904.3	3032.0	3151.7	3259.1	3356.6	3445.3	3571.0	3726.2	3859.0	3968.7
47.5°	3003.2	3148.3	3280.7	3403.6	3556.3	3791.4	4005.4	4251.8	4715.2	5112.3	5440.6
45°	3230.5	3378.5	3557.9	3852.2	4126.9	4755.4	5391.2	5962.1	7403.8	8771.6	9904.2
42.5°	3444.6	3744.6	4079.2	4794.5	5605.5	7059.4	9235.0	11193.0	13203.5	15121.1	16711.5
40°	3858.1	4350.0	5331.2	6751.2	9509.5	12104.0	15132.5	17864.7	20291.4	22404.6	24160.4
37.5°	4563.5	5657.7	8157.9	11299.6	14924.8	18474.4	21769.1	24765.0	27415.1	29519.3	31271.5
35°	5767.4	8869.2	12519.3	16844.0	20943.3	24809.4	28288.6	31255.5	33894.5	36381.3	38512.9
32.5°	8869.2	12992.6	17815.7	22461.1	26883.4	30721.9	34238.5	37790.5	40984.4	44419.2	47874.2
30°	12519.3	17815.7	22971.7	27886.3	32211.4	36493.1	40716.0	45635.9	50782.4	55559.5	60349.4
27.5°	16844.0	22461.1	27886.3	32713.0	37652.1	42564.7	49307.8	55855.4	62940.4	69155.0	74672.5
25°	20943.3	26883.4	32211.4	37652.1	43465.2	51179.4	59550.6	68043.7	76078.6	83220.4	89317.1
22.5°	24809.4	30721.9	36493.1	42564.7	51179.4	60800.0	70730.2	80373.5	89204.6	97080.7	104183.2
20°	28288.6	34238.5	40716.0	49307.8	59550.6	70730.2	81830.2	92288.5	102073.3	111743.6	120323.5
17.5°	31255.5	37790.5	45635.9	55855.4	68043.7	80373.5	92288.5	103921.7	115663.2	127393.9	137982.5
15°	33894.5	40984.4	50782.4	62940.4	76078.6	89204.6	102073.3	115663.2	129819.1	143821.5	157337.1
12.5°	36381.3	44419.2	55559.5	69155.0	83220.4	97080.7	111743.6	127393.9	143821.5	160619.7	174343.3
10°	38512.9	47874.2	60349.4	74672.5	89317.1	104183.2	120323.5	137982.5	157337.1	174343.3	188209.7
7.5°	40198.9	50614.5	64161.5	79083.3	94224.4	110279.0	128083.2	147870.2	167948.9	185276.1	196503.5
5°	41418.9	52601.9	66933.8	82302.1	97821.3	114772.9	133848.3	155360.4	175704.0	191860.3	201537.4
2.5°	42157.4	53806.8	68617.7	84262.1	100018.6	117530.0	137405.6	160020.3	180586.7	195355.3	204267.3
0°	42404.7	54210.6	69182.6	84920.4	100757.8	118459.6	138608.9	161603.6	182257.1	196404.7	205198.2
-2.5°	42157.4	53806.8	68617.7	84262.1	100018.6	117530.0	137405.6	160020.3	180586.7	195355.3	204267.3
-5°	41418.9	52601.9	66933.8	82302.1	97821.3	114772.9	133848.3	155360.4	175704.0	191860.3	201537.4
-7.5°	40198.9	50614.5	64161.5	79083.3	94224.4	110279.0	128083.2	147870.2	167948.9	185276.1	196503.5
-10°	38512.9	47874.2	60349.4	74672.5	89317.1	104183.2	120323.5	137982.5	157337.1	174343.3	188209.7
-12.5°	36381.3	44419.2	55559.5	69155.0	83220.4	97080.7	111743.6	127393.9	143821.5	160619.7	174343.3
-15°	33894.5	40984.4	50782.4	62940.4	76078.6	89204.6	102073.3	115663.2	129819.1	143821.5	157337.1
-17.5°	31255.5	37790.5	45635.9	55855.4	68043.7	80373.5	92288.5	103921.7	115663.2	127393.9	137982.5
-20°	28288.6	34238.5	40716.0	49307.8	59550.6	70730.2	81830.2	92288.5	102073.3	111743.6	120323.5



REPORT NUMBER: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	24809.4	30721.9	36493.1	42564.7	51179.4	60800.0	70730.2	80373.5	89204.6	97080.7	104183.2
-25°	20943.3	26883.4	32211.4	37652.1	43465.2	51179.4	59550.6	68043.7	76078.6	83220.4	89317.1
-27.5°	16844.0	22461.1	27886.3	32713.0	37652.1	42564.7	49307.8	55855.4	62940.4	69155.0	74672.5
-30°	12519.3	17815.7	22971.7	27886.3	32211.4	36493.1	40716.0	45635.9	50782.4	55559.5	60349.4
-32.5°	8869.2	12992.6	17815.7	22461.1	26883.4	30721.9	34238.5	37790.5	40984.4	44419.2	47874.2
-35°	5767.4	8869.2	12519.3	16844.0	20943.3	24809.4	28288.6	31255.5	33894.5	36381.3	38512.9
-37.5°	4563.5	5657.7	8157.9	11299.6	14924.8	18474.4	21769.1	24765.0	27415.1	29519.3	31271.5
-40°	3858.1	4350.0	5331.2	6751.2	9509.5	12104.0	15132.5	17864.7	20291.4	22404.6	24160.4
-42.5°	3444.6	3744.6	4079.2	4794.5	5605.5	7059.4	9235.0	11193.0	13203.5	15121.1	16711.5
-45°	3230.5	3378.5	3557.9	3852.2	4126.9	4755.4	5391.2	5962.1	7403.8	8771.6	9904.2
-47.5°	3003.2	3148.3	3280.7	3403.6	3556.3	3791.4	4005.4	4251.8	4715.2	5112.3	5440.6
-50°	2697.4	2904.3	3032.0	3151.7	3259.1	3356.6	3445.3	3571.0	3726.2	3859.0	3968.7
-52.5°	2278.3	2498.2	2707.5	2885.6	2988.4	3082.8	3168.5	3242.1	3306.1	3360.8	3405.9
-55°	1897.6	2080.4	2252.5	2427.9	2595.3	2749.0	2877.0	2947.2	3008.7	3061.2	3104.5
-57.5°	1532.9	1688.6	1838.4	1986.1	2122.8	2248.1	2369.6	2483.2	2582.5	2667.3	2737.1
-60°	1185.9	1315.5	1448.4	1573.2	1688.6	1794.4	1897.6	1989.6	2070.0	2138.6	2195.0
-62.5°	863.6	972.3	1082.9	1185.9	1281.1	1372.4	1458.9	1535.9	1603.1	1660.4	1707.5
-65°	595.2	680.6	760.7	835.2	904.7	983.0	1053.7	1116.6	1171.5	1218.2	1256.6
-67.5°	401.1	452.7	501.1	546.1	600.6	656.6	707.1	752.1	791.3	824.6	852.1
-70°	254.7	285.1	313.6	345.0	381.6	415.0	445.1	471.9	495.3	515.1	531.4
-72.5°	149.0	165.2	182.6	205.6	226.8	246.1	263.5	279.0	292.5	304.0	313.4
-75°	78.4	86.9	99.8	111.8	122.9	133.0	142.1	150.1	157.2	163.1	168.0
-77.5°	44.0	49.2	54.0	58.5	62.7	66.4	69.8	72.8	75.5	77.7	79.5
-80°	25.4	27.4	29.3	31.0	32.6	34.1	35.4	36.5	37.6	38.4	39.1
-82.5°	15.7	16.2	16.7	17.2	17.7	18.1	18.4	18.7	19.0	19.3	19.5
-85°	11.5	11.6	11.7	11.8	11.8	11.9	12.0	12.0	12.1	12.1	12.1
-87.5°	8.4	8.7	8.9	9.1	9.3	9.5	9.7	9.8	9.9	10.1	10.1
-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: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-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°	10.2	10.3	10.3	10.3	10.3	10.3	10.2	10.1	10.1	9.9	9.8
85°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.1	12.1	12.1	12.0
82.5°	19.6	19.7	19.8	19.8	19.8	19.7	19.6	19.5	19.3	19.0	18.7
80°	39.7	40.1	40.3	40.4	40.3	40.1	39.7	39.1	38.4	37.6	36.5
77.5°	81.0	82.0	82.6	82.8	82.6	82.0	81.0	79.5	77.7	75.5	72.8
75°	171.9	174.6	176.3	176.8	176.3	174.6	171.9	168.0	163.1	157.2	150.1
72.5°	320.7	326.0	329.1	330.2	329.1	326.0	320.7	313.4	304.0	292.5	279.0
70°	544.2	553.3	558.8	560.6	558.8	553.3	544.2	531.4	515.1	495.3	471.9
67.5°	873.5	888.8	898.0	901.1	898.0	888.8	873.5	852.1	824.6	791.3	752.1
65°	1286.6	1308.2	1321.1	1325.4	1321.1	1308.2	1286.6	1256.6	1218.2	1171.5	1116.6
62.5°	1744.3	1770.7	1786.6	1791.9	1786.6	1770.7	1744.3	1707.5	1660.4	1603.1	1535.9
60°	2239.1	2270.7	2289.8	2296.1	2289.8	2270.7	2239.1	2195.0	2138.6	2070.0	1989.6
57.5°	2791.7	2830.9	2854.4	2862.3	2854.4	2830.9	2791.7	2737.1	2667.3	2582.5	2483.2
55°	3138.4	3162.7	3177.3	3182.2	3177.3	3162.7	3138.4	3104.5	3061.2	3008.7	2947.2
52.5°	3441.2	3466.5	3481.8	3486.9	3481.8	3466.5	3441.2	3405.9	3360.8	3306.1	3242.1
50°	4054.7	4116.5	4153.7	4166.1	4153.7	4116.5	4054.7	3968.7	3859.0	3726.2	3571.0
47.5°	5698.2	5883.4	5995.0	6032.3	5995.0	5883.4	5698.2	5440.6	5112.3	4715.2	4251.8
45°	10793.7	11433.9	11819.9	11948.9	11819.9	11433.9	10793.7	9904.2	8771.6	7403.8	5962.1
42.5°	17962.2	18863.2	19406.9	19588.7	19406.9	18863.2	17962.2	16711.5	15121.1	13203.5	11193.0
40°	25543.5	26541.1	27143.6	27345.1	27143.6	26541.1	25543.5	24160.4	22404.6	20291.4	17864.7
37.5°	32654.4	33653.2	34257.1	34459.2	34257.1	33653.2	32654.4	31271.5	29519.3	27415.1	24765.0
35°	40198.9	41418.9	42157.4	42404.7	42157.4	41418.9	40198.9	38512.9	36381.3	33894.5	31255.5
32.5°	50614.5	52601.9	53806.8	54210.6	53806.8	52601.9	50614.5	47874.2	44419.2	40984.4	37790.5
30°	64161.5	66933.8	68617.7	69182.6	68617.7	66933.8	64161.5	60349.4	55559.5	50782.4	45635.9
27.5°	79083.3	82302.1	84262.1	84920.4	84262.1	82302.1	79083.3	74672.5	69155.0	62940.4	55855.4
25°	94224.4	97821.3	100018.6	100757.8	100018.6	97821.3	94224.4	89317.1	83220.4	76078.6	68043.7
22.5°	110279.0	114772.9	117530.0	118459.6	117530.0	114772.9	110279.0	104183.2	97080.7	89204.6	80373.5
20°	128083.2	133848.3	137405.6	138608.9	137405.6	133848.3	128083.2	120323.5	111743.6	102073.3	92288.5
17.5°	147870.2	155360.4	160020.3	161603.6	160020.3	155360.4	147870.2	137982.5	127393.9	115663.2	103921.7
15°	167948.9	175704.0	180586.7	182257.1	180586.7	175704.0	167948.9	157337.1	143821.5	129819.1	115663.2
12.5°	185276.1	191860.3	195355.3	196404.7	195355.3	191860.3	185276.1	174343.3	160619.7	143821.5	127393.9
10°	196503.5	201537.4	204267.3	205198.2	204267.3	201537.4	196503.5	188209.7	174343.3	157337.1	137982.5
7.5°	203391.3	207947.3	210435.8	211261.5	210435.8	207947.3	203391.3	196503.5	185276.1	167948.9	147870.2
5°	207947.3	212148.6	214324.1	215029.7	214324.1	212148.6	207947.3	201537.4	191860.3	175704.0	155360.4
2.5°	210435.8	214324.1	215896.6	215937.9	215896.6	214324.1	210435.8	204267.3	195355.3	180586.7	160020.3
0°	211261.5	215029.7	215937.9	215675.9	215937.9	215029.7	211261.5	205198.2	196404.7	182257.1	161603.6
-2.5°	210435.8	214324.1	215896.6	215937.9	215896.6	214324.1	210435.8	204267.3	195355.3	180586.7	160020.3
-5°	207947.3	212148.6	214324.1	215029.7	214324.1	212148.6	207947.3	201537.4	191860.3	175704.0	155360.4
-7.5°	203391.3	207947.3	210435.8	211261.5	210435.8	207947.3	203391.3	196503.5	185276.1	167948.9	147870.2
-10°	196503.5	201537.4	204267.3	205198.2	204267.3	201537.4	196503.5	188209.7	174343.3	157337.1	137982.5
-12.5°	185276.1	191860.3	195355.3	196404.7	195355.3	191860.3	185276.1	174343.3	160619.7	143821.5	127393.9
-15°	167948.9	175704.0	180586.7	182257.1	180586.7	175704.0	167948.9	157337.1	143821.5	129819.1	115663.2
-17.5°	147870.2	155360.4	160020.3	161603.6	160020.3	155360.4	147870.2	137982.5	127393.9	115663.2	103921.7
-20°	128083.2	133848.3	137405.6	138608.9	137405.6	133848.3	128083.2	120323.5	111743.6	102073.3	92288.5



REPORT NUMBER: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	110279.0	114772.9	117530.0	118459.6	117530.0	114772.9	110279.0	104183.2	97080.7	89204.6	80373.5
-25°	94224.4	97821.3	100018.6	100757.8	100018.6	97821.3	94224.4	89317.1	83220.4	76078.6	68043.7
-27.5°	79083.3	82302.1	84262.1	84920.4	84262.1	82302.1	79083.3	74672.5	69155.0	62940.4	55855.4
-30°	64161.5	66933.8	68617.7	69182.6	68617.7	66933.8	64161.5	60349.4	55559.5	50782.4	45635.9
-32.5°	50614.5	52601.9	53806.8	54210.6	53806.8	52601.9	50614.5	47874.2	44419.2	40984.4	37790.5
-35°	40198.9	41418.9	42157.4	42404.7	42157.4	41418.9	40198.9	38512.9	36381.3	33894.5	31255.5
-37.5°	32654.4	33653.2	34257.1	34459.2	34257.1	33653.2	32654.4	31271.5	29519.3	27415.1	24765.0
-40°	25543.5	26541.1	27143.6	27345.1	27143.6	26541.1	25543.5	24160.4	22404.6	20291.4	17864.7
-42.5°	17962.2	18863.2	19406.9	19588.7	19406.9	18863.2	17962.2	16711.5	15121.1	13203.5	11193.0
-45°	10793.7	11433.9	11819.9	11948.9	11819.9	11433.9	10793.7	9904.2	8771.6	7403.8	5962.1
-47.5°	5698.2	5883.4	5995.0	6032.3	5995.0	5883.4	5698.2	5440.6	5112.3	4715.2	4251.8
-50°	4054.7	4116.5	4153.7	4166.1	4153.7	4116.5	4054.7	3968.7	3859.0	3726.2	3571.0
-52.5°	3441.2	3466.5	3481.8	3486.9	3481.8	3466.5	3441.2	3405.9	3360.8	3306.1	3242.1
-55°	3138.4	3162.7	3177.3	3182.2	3177.3	3162.7	3138.4	3104.5	3061.2	3008.7	2947.2
-57.5°	2791.7	2830.9	2854.4	2862.3	2854.4	2830.9	2791.7	2737.1	2667.3	2582.5	2483.2
-60°	2239.1	2270.7	2289.8	2296.1	2289.8	2270.7	2239.1	2195.0	2138.6	2070.0	1989.6
-62.5°	1744.3	1770.7	1786.6	1791.9	1786.6	1770.7	1744.3	1707.5	1660.4	1603.1	1535.9
-65°	1286.6	1308.2	1321.1	1325.4	1321.1	1308.2	1286.6	1256.6	1218.2	1171.5	1116.6
-67.5°	873.5	888.8	898.0	901.1	898.0	888.8	873.5	852.1	824.6	791.3	752.1
-70°	544.2	553.3	558.8	560.6	558.8	553.3	544.2	531.4	515.1	495.3	471.9
-72.5°	320.7	326.0	329.1	330.2	329.1	326.0	320.7	313.4	304.0	292.5	279.0
-75°	171.9	174.6	176.3	176.8	176.3	174.6	171.9	168.0	163.1	157.2	150.1
-77.5°	81.0	82.0	82.6	82.8	82.6	82.0	81.0	79.5	77.7	75.5	72.8
-80°	39.7	40.1	40.3	40.4	40.3	40.1	39.7	39.1	38.4	37.6	36.5
-82.5°	19.6	19.7	19.8	19.8	19.8	19.7	19.6	19.5	19.3	19.0	18.7
-85°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.1	12.1	12.1	12.0
-87.5°	10.2	10.3	10.3	10.3	10.3	10.3	10.2	10.1	10.1	9.9	9.8
-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: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-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°	9.7	9.5	9.3	9.1	8.9	8.7	8.4	8.2	7.9	7.6	7.3
85°	12.0	11.9	11.8	11.8	11.7	11.6	11.5	11.4	11.3	11.2	11.1
82.5°	18.4	18.1	17.7	17.2	16.7	16.2	15.7	15.1	14.4	13.8	13.1
80°	35.4	34.1	32.6	31.0	29.3	27.4	25.4	23.2	21.0	19.4	18.4
77.5°	69.8	66.4	62.7	58.5	54.0	49.2	44.0	39.5	36.6	33.7	30.5
75°	142.1	133.0	122.9	111.8	99.8	86.9	78.4	71.8	64.7	57.4	49.6
72.5°	263.5	246.1	226.8	205.6	182.6	165.2	149.0	131.8	113.6	94.4	79.0
70°	445.1	415.0	381.6	345.0	313.6	285.1	254.7	222.5	188.4	162.0	139.0
67.5°	707.1	656.6	600.6	546.1	501.1	452.7	401.1	346.2	302.4	262.0	219.7
65°	1053.7	983.0	904.7	835.2	760.7	680.6	595.2	522.8	458.3	390.6	323.3
62.5°	1458.9	1372.4	1281.1	1185.9	1082.9	972.3	863.6	763.5	658.0	551.7	473.7
60°	1897.6	1794.4	1688.6	1573.2	1448.4	1315.5	1185.9	1048.9	904.7	782.8	656.6
57.5°	2369.6	2248.1	2122.8	1986.1	1838.4	1688.6	1532.9	1368.5	1207.5	1043.2	877.8
55°	2877.0	2749.0	2595.3	2427.9	2252.5	2080.4	1897.6	1711.3	1524.1	1328.5	1143.4
52.5°	3168.5	3082.8	2988.4	2885.6	2707.5	2498.2	2278.3	2070.0	1851.8	1636.7	1418.1
50°	3445.3	3356.6	3259.1	3151.7	3032.0	2904.3	2697.4	2445.8	2195.0	1950.9	1704.9
47.5°	4005.4	3791.4	3556.3	3403.6	3280.7	3148.3	3003.2	2842.0	2560.4	2270.7	2000.9
45°	5391.2	4755.4	4126.9	3852.2	3557.9	3378.5	3230.5	3070.1	2900.4	2618.1	2296.1
42.5°	9235.0	7059.4	5605.5	4794.5	4079.2	3744.6	3444.6	3279.4	3103.8	2917.0	2618.1
40°	15132.5	12104.0	9509.5	6751.2	5331.2	4350.0	3858.1	3477.9	3295.8	3103.8	2900.4
37.5°	21769.1	18474.4	14924.8	11299.6	8157.9	5657.7	4563.5	3896.2	3477.9	3279.4	3070.1
35°	28288.6	24809.4	20943.3	16844.0	12519.3	8869.2	5767.4	4563.5	3858.1	3444.6	3230.5
32.5°	34238.5	30721.9	26883.4	22461.1	17815.7	12992.6	8869.2	5657.7	4350.0	3744.6	3378.5
30°	40716.0	36493.1	32211.4	27886.3	22971.7	17815.7	12519.3	8157.9	5331.2	4079.2	3557.9
27.5°	49307.8	42564.7	37652.1	32713.0	27886.3	22461.1	16844.0	11299.6	6751.2	4794.5	3852.2
25°	59550.6	51179.4	43465.2	37652.1	32211.4	26883.4	20943.3	14924.8	9509.5	5605.5	4126.9
22.5°	70730.2	60800.0	51179.4	42564.7	36493.1	30721.9	24809.4	18474.4	12104.0	7059.4	4755.4
20°	81830.2	70730.2	59550.6	49307.8	40716.0	34238.5	28288.6	21769.1	15132.5	9235.0	5391.2
17.5°	92288.5	80373.5	68043.7	55855.4	45635.9	37790.5	31255.5	24765.0	17864.7	11193.0	5962.1
15°	102073.3	89204.6	76078.6	62940.4	50782.4	40984.4	33894.5	27415.1	20291.4	13203.5	7403.8
12.5°	111743.6	97080.7	83220.4	69155.0	55559.5	44419.2	36381.3	29519.3	22404.6	15121.1	8771.6
10°	120323.5	104183.2	89317.1	74672.5	60349.4	47874.2	38512.9	31271.5	24160.4	16711.5	9904.2
7.5°	128083.2	110279.0	94224.4	79083.3	64161.5	50614.5	40198.9	32654.4	25543.5	17962.2	10793.7
5°	133848.3	114772.9	97821.3	82302.1	66933.8	52601.9	41418.9	33653.2	26541.1	18863.2	11433.9
2.5°	137405.6	117530.0	100018.6	84262.1	68617.7	53806.8	42157.4	34257.1	27143.6	19406.9	11819.9
0°	138608.9	118459.6	100757.8	84920.4	69182.6	54210.6	42404.7	34459.2	27345.1	19588.7	11948.9
-2.5°	137405.6	117530.0	100018.6	84262.1	68617.7	53806.8	42157.4	34257.1	27143.6	19406.9	11819.9
-5°	133848.3	114772.9	97821.3	82302.1	66933.8	52601.9	41418.9	33653.2	26541.1	18863.2	11433.9
-7.5°	128083.2	110279.0	94224.4	79083.3	64161.5	50614.5	40198.9	32654.4	25543.5	17962.2	10793.7
-10°	120323.5	104183.2	89317.1	74672.5	60349.4	47874.2	38512.9	31271.5	24160.4	16711.5	9904.2
-12.5°	111743.6	97080.7	83220.4	69155.0	55559.5	44419.2	36381.3	29519.3	22404.6	15121.1	8771.6
-15°	102073.3	89204.6	76078.6	62940.4	50782.4	40984.4	33894.5	27415.1	20291.4	13203.5	7403.8
-17.5°	92288.5	80373.5	68043.7	55855.4	45635.9	37790.5	31255.5	24765.0	17864.7	11193.0	5962.1
-20°	81830.2	70730.2	59550.6	49307.8	40716.0	34238.5	28288.6	21769.1	15132.5	9235.0	5391.2



REPORT NUMBER: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	70730.2	60800.0	51179.4	42564.7	36493.1	30721.9	24809.4	18474.4	12104.0	7059.4	4755.4
-25°	59550.6	51179.4	43465.2	37652.1	32211.4	26883.4	20943.3	14924.8	9509.5	5605.5	4126.9
-27.5°	49307.8	42564.7	37652.1	32713.0	27886.3	22461.1	16844.0	11299.6	6751.2	4794.5	3852.2
-30°	40716.0	36493.1	32211.4	27886.3	22971.7	17815.7	12519.3	8157.9	5331.2	4079.2	3557.9
-32.5°	34238.5	30721.9	26883.4	22461.1	17815.7	12992.6	8869.2	5657.7	4350.0	3744.6	3378.5
-35°	28288.6	24809.4	20943.3	16844.0	12519.3	8869.2	5767.4	4563.5	3858.1	3444.6	3230.5
-37.5°	21769.1	18474.4	14924.8	11299.6	8157.9	5657.7	4563.5	3896.2	3477.9	3279.4	3070.1
-40°	15132.5	12104.0	9509.5	6751.2	5331.2	4350.0	3858.1	3477.9	3295.8	3103.8	2900.4
-42.5°	9235.0	7059.4	5605.5	4794.5	4079.2	3744.6	3444.6	3279.4	3103.8	2917.0	2618.1
-45°	5391.2	4755.4	4126.9	3852.2	3557.9	3378.5	3230.5	3070.1	2900.4	2618.1	2296.1
-47.5°	4005.4	3791.4	3556.3	3403.6	3280.7	3148.3	3003.2	2842.0	2560.4	2270.7	2000.9
-50°	3445.3	3356.6	3259.1	3151.7	3032.0	2904.3	2697.4	2445.8	2195.0	1950.9	1704.9
-52.5°	3168.5	3082.8	2988.4	2885.6	2707.5	2498.2	2278.3	2070.0	1851.8	1636.7	1418.1
-55°	2877.0	2749.0	2595.3	2427.9	2252.5	2080.4	1897.6	1711.3	1524.1	1328.5	1143.4
-57.5°	2369.6	2248.1	2122.8	1986.1	1838.4	1688.6	1532.9	1368.5	1207.5	1043.2	877.8
-60°	1897.6	1794.4	1688.6	1573.2	1448.4	1315.5	1185.9	1048.9	904.7	782.8	656.6
-62.5°	1458.9	1372.4	1281.1	1185.9	1082.9	972.3	863.6	763.5	658.0	551.7	473.7
-65°	1053.7	983.0	904.7	835.2	760.7	680.6	595.2	522.8	458.3	390.6	323.3
-67.5°	707.1	656.6	600.6	546.1	501.1	452.7	401.1	346.2	302.4	262.0	219.7
-70°	445.1	415.0	381.6	345.0	313.6	285.1	254.7	222.5	188.4	162.0	139.0
-72.5°	263.5	246.1	226.8	205.6	182.6	165.2	149.0	131.8	113.6	94.4	79.0
-75°	142.1	133.0	122.9	111.8	99.8	86.9	78.4	71.8	64.7	57.4	49.6
-77.5°	69.8	66.4	62.7	58.5	54.0	49.2	44.0	39.5	36.6	33.7	30.5
-80°	35.4	34.1	32.6	31.0	29.3	27.4	25.4	23.2	21.0	19.4	18.4
-82.5°	18.4	18.1	17.7	17.2	16.7	16.2	15.7	15.1	14.4	13.8	13.1
-85°	12.0	11.9	11.8	11.8	11.7	11.6	11.5	11.4	11.3	11.2	11.1
-87.5°	9.7	9.5	9.3	9.1	8.9	8.7	8.4	8.2	7.9	7.6	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



REPORT NUMBER: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-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°	7.0	6.6	6.3	5.9	5.5	5.1	4.8	4.4	3.9	3.5	3.1
85°	11.0	10.8	10.7	10.6	10.4	10.3	9.5	8.7	7.9	7.0	6.2
82.5°	12.4	12.1	11.9	11.7	11.5	11.2	11.0	10.8	10.6	10.3	9.3
80°	17.5	16.5	15.4	14.4	13.3	12.2	11.9	11.6	11.3	11.0	10.7
77.5°	27.3	23.9	20.4	18.7	17.3	15.9	14.4	13.0	12.0	11.6	11.2
75°	41.6	36.9	32.7	28.3	23.9	19.6	17.9	16.1	14.3	12.4	11.8
72.5°	69.6	59.8	49.7	39.8	34.6	29.3	23.8	19.2	17.1	14.9	12.8
70°	115.1	90.3	74.6	62.7	50.4	39.1	32.9	26.5	20.0	17.4	14.9
67.5°	176.2	148.2	119.3	89.6	72.0	57.9	43.4	34.7	27.4	20.0	17.1
65°	274.3	223.6	173.4	140.3	106.3	77.7	61.7	45.3	34.7	26.5	19.2
62.5°	392.6	315.8	258.1	198.8	152.9	114.7	79.6	61.7	43.4	32.9	23.8
60°	536.9	445.1	350.6	279.0	212.6	157.2	114.7	77.7	57.9	39.1	29.3
57.5°	735.5	588.4	476.9	371.6	286.0	212.6	152.9	106.3	72.0	50.4	34.6
55°	951.9	783.2	620.1	487.6	371.6	279.0	198.8	140.3	89.6	62.7	39.8
52.5°	1204.0	992.0	799.2	620.1	476.9	350.6	258.1	173.4	119.3	74.6	49.7
50°	1463.2	1224.3	992.0	783.2	588.4	445.1	315.8	223.6	148.2	90.3	59.8
47.5°	1727.8	1463.2	1204.0	951.9	735.5	536.9	392.6	274.3	176.2	115.1	69.6
45°	2000.9	1704.9	1418.1	1143.4	877.8	656.6	473.7	323.3	219.7	139.0	79.0
42.5°	2270.7	1950.9	1636.7	1328.5	1043.2	782.8	551.7	390.6	262.0	162.0	94.4
40°	2560.4	2195.0	1851.8	1524.1	1207.5	904.7	658.0	458.3	302.4	188.4	113.6
37.5°	2842.0	2445.8	2070.0	1711.3	1368.5	1048.9	763.5	522.8	346.2	222.5	131.8
35°	3003.2	2697.4	2278.3	1897.6	1532.9	1185.9	863.6	595.2	401.1	254.7	149.0
32.5°	3148.3	2904.3	2498.2	2080.4	1688.6	1315.5	972.3	680.6	452.7	285.1	165.2
30°	3280.7	3032.0	2707.5	2252.5	1838.4	1448.4	1082.9	760.7	501.1	313.6	182.6
27.5°	3403.6	3151.7	2885.6	2427.9	1986.1	1573.2	1185.9	835.2	546.1	345.0	205.6
25°	3556.3	3259.1	2988.4	2595.3	2122.8	1688.6	1281.1	904.7	600.6	381.6	226.8
22.5°	3791.4	3356.6	3082.8	2749.0	2248.1	1794.4	1372.4	983.0	656.6	415.0	246.1
20°	4005.4	3445.3	3168.5	2877.0	2369.6	1897.6	1458.9	1053.7	707.1	445.1	263.5
17.5°	4251.8	3571.0	3242.1	2947.2	2483.2	1989.6	1535.9	1116.6	752.1	471.9	279.0
15°	4715.2	3726.2	3306.1	3008.7	2582.5	2070.0	1603.1	1171.5	791.3	495.3	292.5
12.5°	5112.3	3859.0	3360.8	3061.2	2667.3	2138.6	1660.4	1218.2	824.6	515.1	304.0
10°	5440.6	3968.7	3405.9	3104.5	2737.1	2195.0	1707.5	1256.6	852.1	531.4	313.4
7.5°	5698.2	4054.7	3441.2	3138.4	2791.7	2239.1	1744.3	1286.6	873.5	544.2	320.7
5°	5883.4	4116.5	3466.5	3162.7	2830.9	2270.7	1770.7	1308.2	888.8	553.3	326.0
2.5°	5995.0	4153.7	3481.8	3177.3	2854.4	2289.8	1786.6	1321.1	898.0	558.8	329.1
0°	6032.3	4166.1	3486.9	3182.2	2862.3	2296.1	1791.9	1325.4	901.1	560.6	330.2
-2.5°	5995.0	4153.7	3481.8	3177.3	2854.4	2289.8	1786.6	1321.1	898.0	558.8	329.1
-5°	5883.4	4116.5	3466.5	3162.7	2830.9	2270.7	1770.7	1308.2	888.8	553.3	326.0
-7.5°	5698.2	4054.7	3441.2	3138.4	2791.7	2239.1	1744.3	1286.6	873.5	544.2	320.7
-10°	5440.6	3968.7	3405.9	3104.5	2737.1	2195.0	1707.5	1256.6	852.1	531.4	313.4
-12.5°	5112.3	3859.0	3360.8	3061.2	2667.3	2138.6	1660.4	1218.2	824.6	515.1	304.0
-15°	4715.2	3726.2	3306.1	3008.7	2582.5	2070.0	1603.1	1171.5	791.3	495.3	292.5
-17.5°	4251.8	3571.0	3242.1	2947.2	2483.2	1989.6	1535.9	1116.6	752.1	471.9	279.0
-20°	4005.4	3445.3	3168.5	2877.0	2369.6	1897.6	1458.9	1053.7	707.1	445.1	263.5



REPORT NUMBER: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3791.4	3356.6	3082.8	2749.0	2248.1	1794.4	1372.4	983.0	656.6	415.0	246.1
-25°	3556.3	3259.1	2988.4	2595.3	2122.8	1688.6	1281.1	904.7	600.6	381.6	226.8
-27.5°	3403.6	3151.7	2885.6	2427.9	1986.1	1573.2	1185.9	835.2	546.1	345.0	205.6
-30°	3280.7	3032.0	2707.5	2252.5	1838.4	1448.4	1082.9	760.7	501.1	313.6	182.6
-32.5°	3148.3	2904.3	2498.2	2080.4	1688.6	1315.5	972.3	680.6	452.7	285.1	165.2
-35°	3003.2	2697.4	2278.3	1897.6	1532.9	1185.9	863.6	595.2	401.1	254.7	149.0
-37.5°	2842.0	2445.8	2070.0	1711.3	1368.5	1048.9	763.5	522.8	346.2	222.5	131.8
-40°	2560.4	2195.0	1851.8	1524.1	1207.5	904.7	658.0	458.3	302.4	188.4	113.6
-42.5°	2270.7	1950.9	1636.7	1328.5	1043.2	782.8	551.7	390.6	262.0	162.0	94.4
-45°	2000.9	1704.9	1418.1	1143.4	877.8	656.6	473.7	323.3	219.7	139.0	79.0
-47.5°	1727.8	1463.2	1204.0	951.9	735.5	536.9	392.6	274.3	176.2	115.1	69.6
-50°	1463.2	1224.3	992.0	783.2	588.4	445.1	315.8	223.6	148.2	90.3	59.8
-52.5°	1204.0	992.0	799.2	620.1	476.9	350.6	258.1	173.4	119.3	74.6	49.7
-55°	951.9	783.2	620.1	487.6	371.6	279.0	198.8	140.3	89.6	62.7	39.8
-57.5°	735.5	588.4	476.9	371.6	286.0	212.6	152.9	106.3	72.0	50.4	34.6
-60°	536.9	445.1	350.6	279.0	212.6	157.2	114.7	77.7	57.9	39.1	29.3
-62.5°	392.6	315.8	258.1	198.8	152.9	114.7	79.6	61.7	43.4	32.9	23.8
-65°	274.3	223.6	173.4	140.3	106.3	77.7	61.7	45.3	34.7	26.5	19.2
-67.5°	176.2	148.2	119.3	89.6	72.0	57.9	43.4	34.7	27.4	20.0	17.1
-70°	115.1	90.3	74.6	62.7	50.4	39.1	32.9	26.5	20.0	17.4	14.9
-72.5°	69.6	59.8	49.7	39.8	34.6	29.3	23.8	19.2	17.1	14.9	12.8
-75°	41.6	36.9	32.7	28.3	23.9	19.6	17.9	16.1	14.3	12.4	11.8
-77.5°	27.3	23.9	20.4	18.7	17.3	15.9	14.4	13.0	12.0	11.6	11.2
-80°	17.5	16.5	15.4	14.4	13.3	12.2	11.9	11.6	11.3	11.0	10.7
-82.5°	12.4	12.1	11.9	11.7	11.5	11.2	11.0	10.8	10.6	10.3	9.3
-85°	11.0	10.8	10.7	10.6	10.4	10.3	9.5	8.7	7.9	7.0	6.2
-87.5°	7.0	6.6	6.3	5.9	5.5	5.1	4.8	4.4	3.9	3.5	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: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-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°	2.7	2.2	1.8	1.3	0.9	0.4	0.0
85°	5.3	4.5	3.6	2.7	1.8	0.9	0.0
82.5°	8.0	6.7	5.4	4.0	2.7	1.3	0.0
80°	10.4	8.9	7.1	5.4	3.6	1.8	0.0
77.5°	10.8	10.4	8.9	6.7	4.5	2.2	0.0
75°	11.3	10.8	10.4	8.0	5.3	2.7	0.0
72.5°	11.8	11.2	10.7	9.3	6.2	3.1	0.0
70°	12.4	11.6	11.0	10.3	7.0	3.5	0.0
67.5°	14.3	12.0	11.3	10.6	7.9	3.9	0.0
65°	16.1	13.0	11.6	10.8	8.7	4.4	0.0
62.5°	17.9	14.4	11.9	11.0	9.5	4.8	0.0
60°	19.6	15.9	12.2	11.2	10.3	5.1	0.0
57.5°	23.9	17.3	13.3	11.5	10.4	5.5	0.0
55°	28.3	18.7	14.4	11.7	10.6	5.9	0.0
52.5°	32.7	20.4	15.4	11.9	10.7	6.3	0.0
50°	36.9	23.9	16.5	12.1	10.8	6.6	0.0
47.5°	41.6	27.3	17.5	12.4	11.0	7.0	0.0
45°	49.6	30.5	18.4	13.1	11.1	7.3	0.0
42.5°	57.4	33.7	19.4	13.8	11.2	7.6	0.0
40°	64.7	36.6	21.0	14.4	11.3	7.9	0.0
37.5°	71.8	39.5	23.2	15.1	11.4	8.2	0.0
35°	78.4	44.0	25.4	15.7	11.5	8.4	0.0
32.5°	86.9	49.2	27.4	16.2	11.6	8.7	0.0
30°	99.8	54.0	29.3	16.7	11.7	8.9	0.0
27.5°	111.8	58.5	31.0	17.2	11.8	9.1	0.0
25°	122.9	62.7	32.6	17.7	11.8	9.3	0.0
22.5°	133.0	66.4	34.1	18.1	11.9	9.5	0.0
20°	142.1	69.8	35.4	18.4	12.0	9.7	0.0
17.5°	150.1	72.8	36.5	18.7	12.0	9.8	0.0
15°	157.2	75.5	37.6	19.0	12.1	9.9	0.0
12.5°	163.1	77.7	38.4	19.3	12.1	10.1	0.0
10°	168.0	79.5	39.1	19.5	12.1	10.1	0.0
7.5°	171.9	81.0	39.7	19.6	12.2	10.2	0.0
5°	174.6	82.0	40.1	19.7	12.2	10.3	0.0
2.5°	176.3	82.6	40.3	19.8	12.2	10.3	0.0
0°	176.8	82.8	40.4	19.8	12.2	10.3	0.0
-2.5°	176.3	82.6	40.3	19.8	12.2	10.3	0.0
-5°	174.6	82.0	40.1	19.7	12.2	10.3	0.0
-7.5°	171.9	81.0	39.7	19.6	12.2	10.2	0.0
-10°	168.0	79.5	39.1	19.5	12.1	10.1	0.0
-12.5°	163.1	77.7	38.4	19.3	12.1	10.1	0.0
-15°	157.2	75.5	37.6	19.0	12.1	9.9	0.0
-17.5°	150.1	72.8	36.5	18.7	12.0	9.8	0.0
-20°	142.1	69.8	35.4	18.4	12.0	9.7	0.0



REPORT NUMBER: P1212100 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	133.0	66.4	34.1	18.1	11.9	9.5	0.0
-25°	122.9	62.7	32.6	17.7	11.8	9.3	0.0
-27.5°	111.8	58.5	31.0	17.2	11.8	9.1	0.0
-30°	99.8	54.0	29.3	16.7	11.7	8.9	0.0
-32.5°	86.9	49.2	27.4	16.2	11.6	8.7	0.0
-35°	78.4	44.0	25.4	15.7	11.5	8.4	0.0
-37.5°	71.8	39.5	23.2	15.1	11.4	8.2	0.0
-40°	64.7	36.6	21.0	14.4	11.3	7.9	0.0
-42.5°	57.4	33.7	19.4	13.8	11.2	7.6	0.0
-45°	49.6	30.5	18.4	13.1	11.1	7.3	0.0
-47.5°	41.6	27.3	17.5	12.4	11.0	7.0	0.0
-50°	36.9	23.9	16.5	12.1	10.8	6.6	0.0
-52.5°	32.7	20.4	15.4	11.9	10.7	6.3	0.0
-55°	28.3	18.7	14.4	11.7	10.6	5.9	0.0
-57.5°	23.9	17.3	13.3	11.5	10.4	5.5	0.0
-60°	19.6	15.9	12.2	11.2	10.3	5.1	0.0
-62.5°	17.9	14.4	11.9	11.0	9.5	4.8	0.0
-65°	16.1	13.0	11.6	10.8	8.7	4.4	0.0
-67.5°	14.3	12.0	11.3	10.6	7.9	3.9	0.0
-70°	12.4	11.6	11.0	10.3	7.0	3.5	0.0
-72.5°	11.8	11.2	10.7	9.3	6.2	3.1	0.0
-75°	11.3	10.8	10.4	8.0	5.3	2.7	0.0
-77.5°	10.8	10.4	8.9	6.7	4.5	2.2	0.0
-80°	10.4	8.9	7.1	5.4	3.6	1.8	0.0
-82.5°	8.0	6.7	5.4	4.0	2.7	1.3	0.0
-85°	5.3	4.5	3.6	2.7	1.8	0.9	0.0
-87.5°	2.7	2.2	1.8	1.3	0.9	0.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)