

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: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-57-90-7F-HEG**

Issue Date: 11/14/2025

Test Information

Test Method: LM-79-08
Report Number: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-10)
Test Lab: INNOVATION CENTER
Issue Date: 11/14/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: EPHESUS
Catalog Number: EPH-LS12-1000R-57-90-7F-HEG
Description: EPHESUS LS12 LUMINAIRE
(12) 5700K, 90 CRI LEDS AND 7F BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

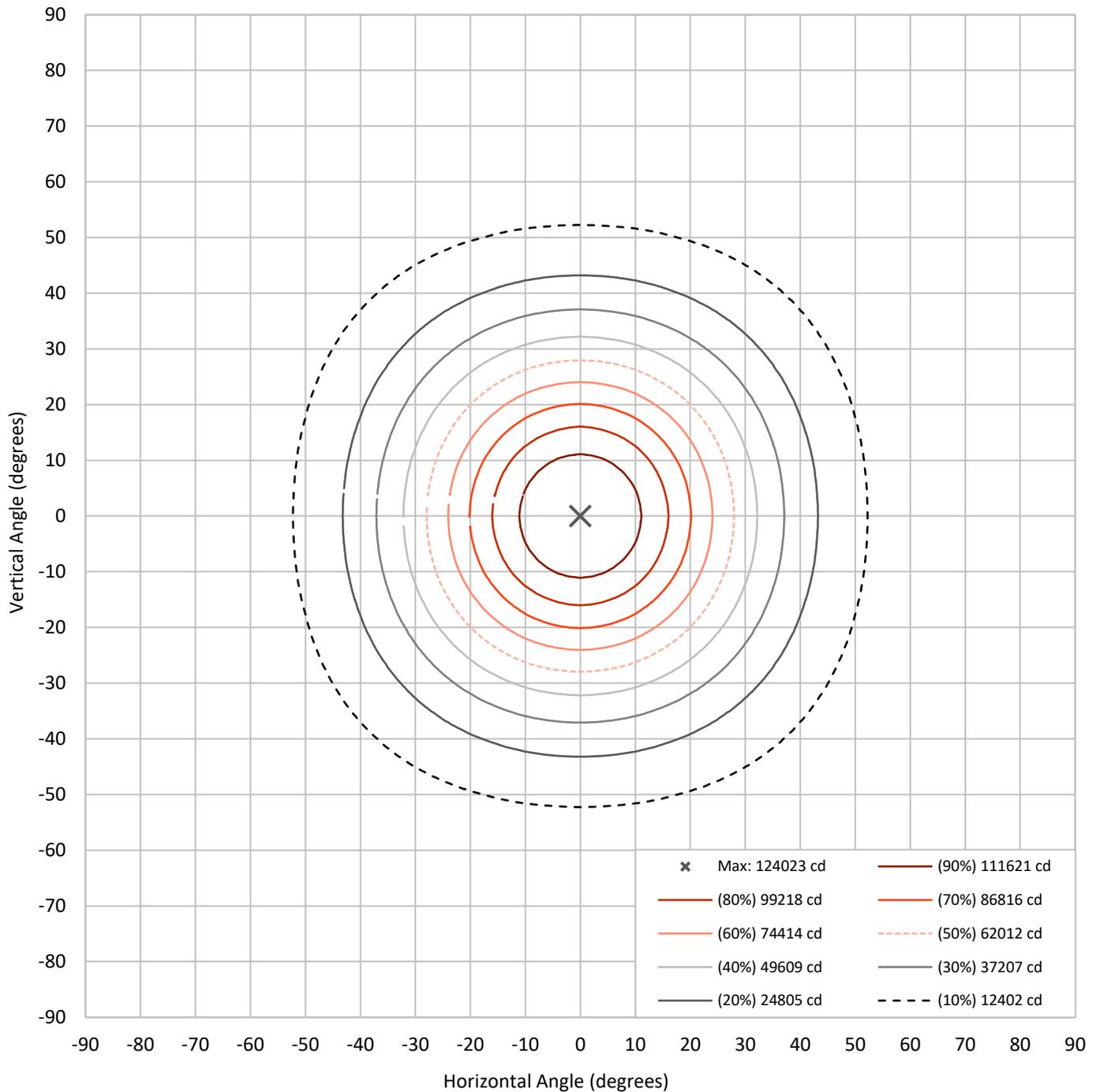
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	130193.8 lumens	Max Intensity:	124023 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	125.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	55.9°H x 55.9°V	Field Angle (10%):	104.5°H x 104.5°V
Beam Lumens:	65309.2 lumens	Field Lumens:	118359.1 lumens
Beam Efficiency:	50.2%	Field Efficiency:	90.9%
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		

REPORT NUMBER: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-HEG

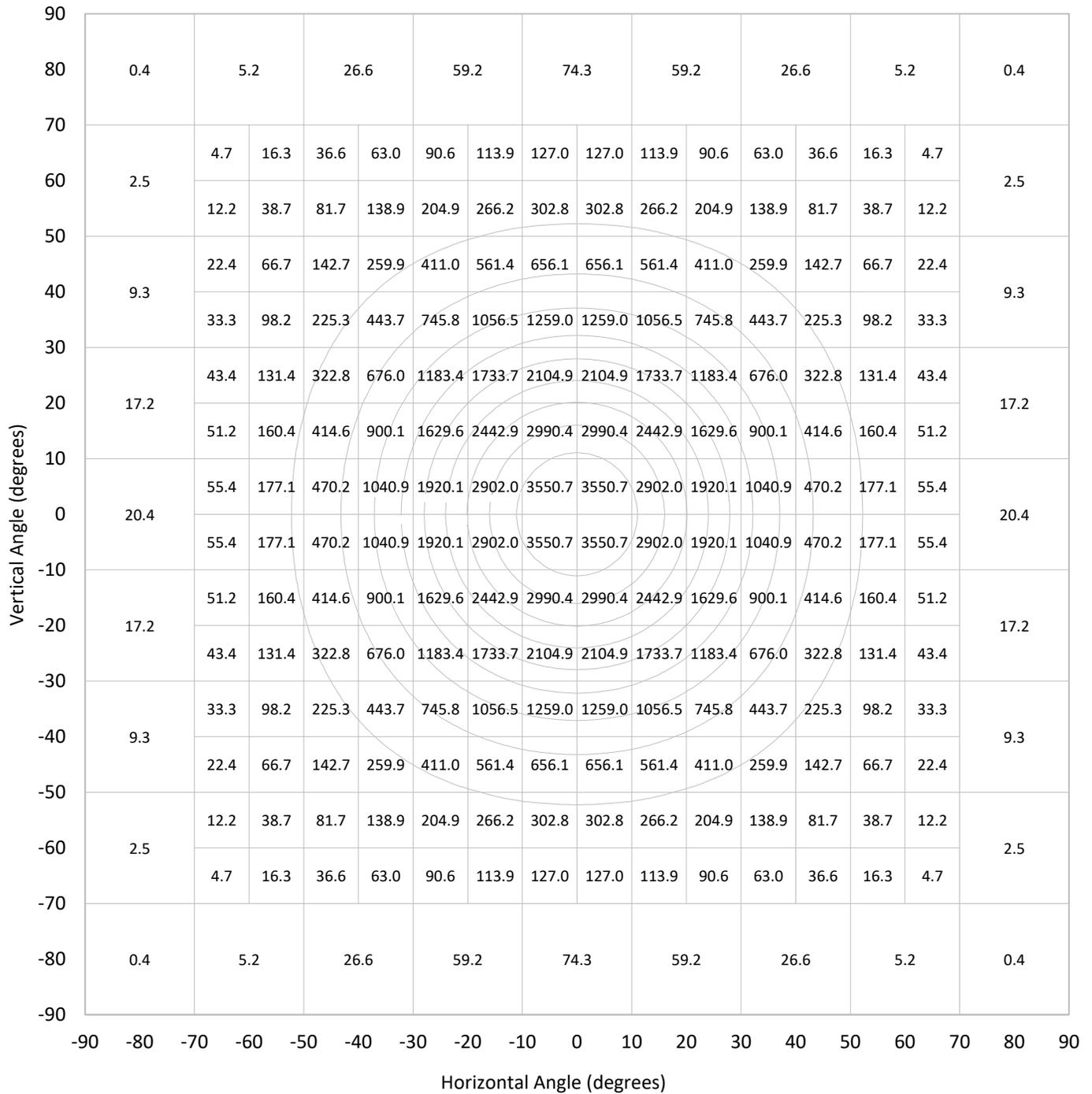
Iso-Candela Plot





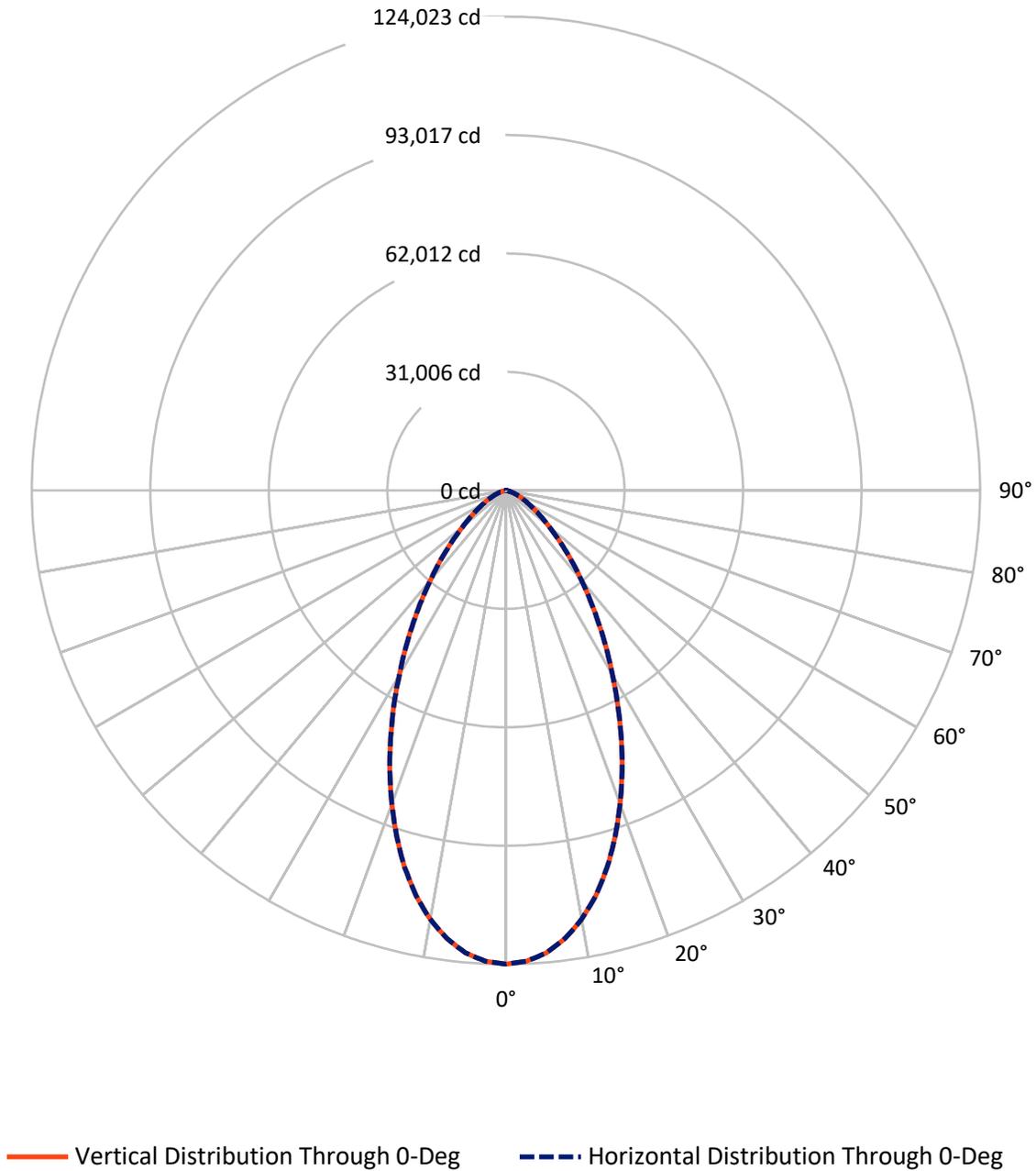
REPORT NUMBER: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-HEG

Lumen Table



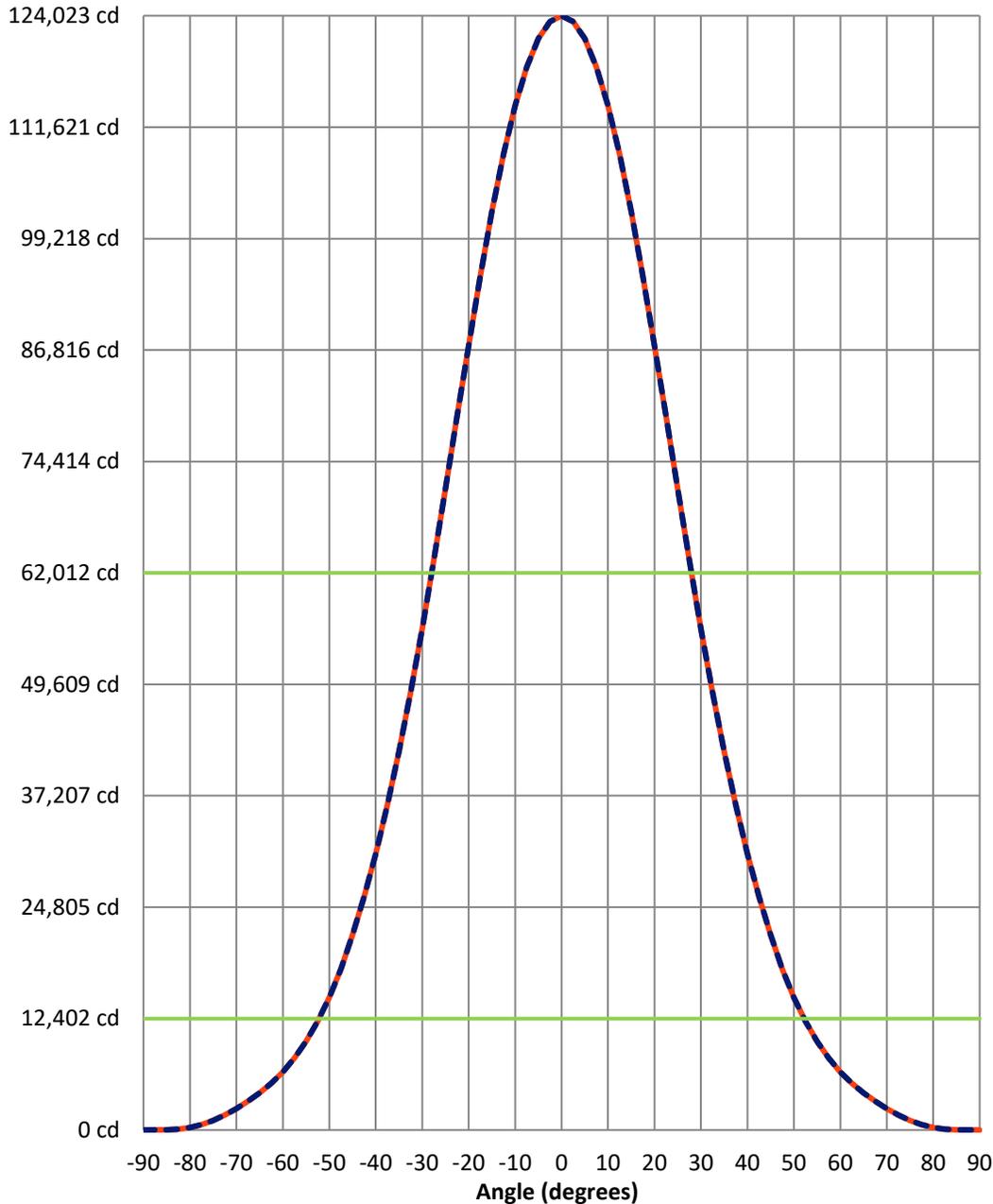
REPORT NUMBER: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-HEG

Luminous Intensity Polar Plot



REPORT NUMBER: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-HEG

Luminous Intensity Plot



Beam:
H Angle: 55.9°
V Angle: 55.9°
Lumens: 65309.2
Efficiency: 50.2%

Field:
H Angle: 104.5°
V Angle: 104.5°
Lumens: 118359.1
Efficiency: 90.9%

Spill:
Lumens: 11834.7
Efficiency: 9.1%

- Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg



REPORT NUMBER: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-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	0.9	1.7	2.6	3.5	4.3	5.2	6.0	6.8	7.7	8.5
85°	0.0	1.7	3.5	5.2	6.9	8.6	10.3	12.0	13.7	15.3	16.9
82.5°	0.0	2.6	5.2	7.8	10.4	13.0	15.5	18.0	20.3	21.6	22.9
80°	0.0	3.5	6.9	10.4	13.8	17.2	20.3	22.2	23.9	25.7	27.4
77.5°	0.0	4.3	8.6	13.0	17.2	20.8	23.1	25.4	27.6	29.8	37.5
75°	0.0	5.2	10.3	15.5	20.3	23.1	25.8	28.6	33.0	49.2	65.0
72.5°	0.0	6.0	12.0	18.0	22.2	25.4	28.6	35.9	55.0	73.8	92.3
70°	0.0	6.8	13.7	20.3	23.9	27.6	33.0	55.0	76.7	99.1	157.6
67.5°	0.0	7.7	15.3	21.6	25.7	29.8	49.2	73.8	99.1	165.8	231.4
65°	0.0	8.5	16.9	22.9	27.4	37.5	65.0	92.3	157.6	231.4	320.0
62.5°	0.0	9.2	18.5	24.2	29.2	50.5	80.6	133.2	215.1	305.7	444.9
60°	0.0	10.0	20.0	25.4	30.8	63.3	95.9	182.6	271.3	416.1	567.3
57.5°	0.0	10.7	20.8	26.6	40.3	75.7	134.1	230.7	359.0	524.1	721.8
55°	0.0	11.5	21.6	27.8	50.0	87.8	174.4	277.7	452.6	639.4	889.1
52.5°	0.0	12.2	22.4	29.0	59.4	102.9	213.5	353.6	543.8	786.0	1051.9
50°	0.0	12.9	23.1	30.1	68.5	134.4	251.3	430.8	643.2	928.2	1253.6
47.5°	0.0	13.5	23.8	32.5	77.2	164.8	291.8	505.5	765.3	1065.8	1453.8
45°	0.0	14.1	24.5	38.8	85.7	194.1	353.3	577.3	883.0	1238.3	1647.0
42.5°	0.0	14.7	25.2	44.8	93.7	222.2	412.2	663.4	995.9	1405.0	1860.1
40°	0.0	15.3	25.8	50.6	108.3	248.9	468.5	757.6	1114.6	1564.5	2068.6
37.5°	0.0	15.9	26.4	56.1	128.6	274.4	522.0	847.2	1249.1	1723.6	2267.4
35°	0.0	16.4	27.0	61.3	147.8	310.2	572.6	932.0	1376.4	1892.4	2468.5
32.5°	0.0	16.9	27.5	66.1	165.8	349.7	626.3	1011.8	1496.4	2051.5	2677.1
30°	0.0	17.3	28.0	70.7	182.7	386.7	690.0	1091.9	1608.7	2200.6	2872.7
27.5°	0.0	17.7	28.4	74.9	198.3	421.0	749.1	1182.6	1719.7	2339.2	3054.8
25°	0.0	18.1	28.9	78.8	212.7	452.5	803.5	1266.2	1832.5	2481.5	3223.6
22.5°	0.0	18.5	29.2	82.3	225.8	481.3	853.2	1342.5	1935.4	2618.4	3393.0
20°	0.0	18.8	29.6	85.5	237.6	507.2	897.9	1411.2	2028.2	2741.9	3546.0
17.5°	0.0	19.1	29.9	88.3	248.1	530.2	937.6	1472.2	2110.7	2851.7	3682.1
15°	0.0	19.3	30.2	90.7	257.2	550.2	972.2	1525.4	2182.6	2947.5	3800.8
12.5°	0.0	19.5	30.4	92.8	265.0	567.3	1001.6	1570.6	2243.7	3029.0	3901.9
10°	0.0	19.7	30.6	94.5	271.3	581.2	1025.8	1607.8	2294.0	3096.0	3985.1
7.5°	0.0	19.8	30.7	95.9	276.3	592.1	1044.6	1636.8	2333.2	3148.4	4050.0
5°	0.0	19.9	30.8	96.8	279.9	599.9	1058.1	1657.6	2361.3	3185.9	4096.6
2.5°	0.0	20.0	30.9	97.4	282.0	604.6	1066.2	1670.0	2378.2	3208.4	4124.6
0°	0.0	20.0	30.9	97.6	282.7	606.2	1068.9	1674.2	2383.8	3215.9	4133.9
-2.5°	0.0	20.0	30.9	97.4	282.0	604.6	1066.2	1670.0	2378.2	3208.4	4124.6
-5°	0.0	19.9	30.8	96.8	279.9	599.9	1058.1	1657.6	2361.3	3185.9	4096.6
-7.5°	0.0	19.8	30.7	95.9	276.3	592.1	1044.6	1636.8	2333.2	3148.4	4050.0
-10°	0.0	19.7	30.6	94.5	271.3	581.2	1025.8	1607.8	2294.0	3096.0	3985.1
-12.5°	0.0	19.5	30.4	92.8	265.0	567.3	1001.6	1570.6	2243.7	3029.0	3901.9
-15°	0.0	19.3	30.2	90.7	257.2	550.2	972.2	1525.4	2182.6	2947.5	3800.8
-17.5°	0.0	19.1	29.9	88.3	248.1	530.2	937.6	1472.2	2110.7	2851.7	3682.1
-20°	0.0	18.8	29.6	85.5	237.6	507.2	897.9	1411.2	2028.2	2741.9	3546.0



REPORT NUMBER: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	18.5	29.2	82.3	225.8	481.3	853.2	1342.5	1935.4	2618.4	3393.0
-25°	0.0	18.1	28.9	78.8	212.7	452.5	803.5	1266.2	1832.5	2481.5	3223.6
-27.5°	0.0	17.7	28.4	74.9	198.3	421.0	749.1	1182.6	1719.7	2339.2	3054.8
-30°	0.0	17.3	28.0	70.7	182.7	386.7	690.0	1091.9	1608.7	2200.6	2872.7
-32.5°	0.0	16.9	27.5	66.1	165.8	349.7	626.3	1011.8	1496.4	2051.5	2677.1
-35°	0.0	16.4	27.0	61.3	147.8	310.2	572.6	932.0	1376.4	1892.4	2468.5
-37.5°	0.0	15.9	26.4	56.1	128.6	274.4	522.0	847.2	1249.1	1723.6	2267.4
-40°	0.0	15.3	25.8	50.6	108.3	248.9	468.5	757.6	1114.6	1564.5	2068.6
-42.5°	0.0	14.7	25.2	44.8	93.7	222.2	412.2	663.4	995.9	1405.0	1860.1
-45°	0.0	14.1	24.5	38.8	85.7	194.1	353.3	577.3	883.0	1238.3	1647.0
-47.5°	0.0	13.5	23.8	32.5	77.2	164.8	291.8	505.5	765.3	1065.8	1453.8
-50°	0.0	12.9	23.1	30.1	68.5	134.4	251.3	430.8	643.2	928.2	1253.6
-52.5°	0.0	12.2	22.4	29.0	59.4	102.9	213.5	353.6	543.8	786.0	1051.9
-55°	0.0	11.5	21.6	27.8	50.0	87.8	174.4	277.7	452.6	639.4	889.1
-57.5°	0.0	10.7	20.8	26.6	40.3	75.7	134.1	230.7	359.0	524.1	721.8
-60°	0.0	10.0	20.0	25.4	30.8	63.3	95.9	182.6	271.3	416.1	567.3
-62.5°	0.0	9.2	18.5	24.2	29.2	50.5	80.6	133.2	215.1	305.7	444.9
-65°	0.0	8.5	16.9	22.9	27.4	37.5	65.0	92.3	157.6	231.4	320.0
-67.5°	0.0	7.7	15.3	21.6	25.7	29.8	49.2	73.8	99.1	165.8	231.4
-70°	0.0	6.8	13.7	20.3	23.9	27.6	33.0	55.0	76.7	99.1	157.6
-72.5°	0.0	6.0	12.0	18.0	22.2	25.4	28.6	35.9	55.0	73.8	92.3
-75°	0.0	5.2	10.3	15.5	20.3	23.1	25.8	28.6	33.0	49.2	65.0
-77.5°	0.0	4.3	8.6	13.0	17.2	20.8	23.1	25.4	27.6	29.8	37.5
-80°	0.0	3.5	6.9	10.4	13.8	17.2	20.3	22.2	23.9	25.7	27.4
-82.5°	0.0	2.6	5.2	7.8	10.4	13.0	15.5	18.0	20.3	21.6	22.9
-85°	0.0	1.7	3.5	5.2	6.9	8.6	10.3	12.0	13.7	15.3	16.9
-87.5°	0.0	0.9	1.7	2.6	3.5	4.3	5.2	6.0	6.8	7.7	8.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-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°	9.2	10.0	10.7	11.5	12.2	12.9	13.5	14.1	14.7	15.3	15.9
85°	18.5	20.0	20.8	21.6	22.4	23.1	23.8	24.5	25.2	25.8	26.4
82.5°	24.2	25.4	26.6	27.8	29.0	30.1	32.5	38.8	44.8	50.6	56.1
80°	29.2	30.8	40.3	50.0	59.4	68.5	77.2	85.7	93.7	108.3	128.6
77.5°	50.5	63.3	75.7	87.8	102.9	134.4	164.8	194.1	222.2	248.9	274.4
75°	80.6	95.9	134.1	174.4	213.5	251.3	291.8	353.3	412.2	468.5	522.0
72.5°	133.2	182.6	230.7	277.7	353.6	430.8	505.5	577.3	663.4	757.6	847.2
70°	215.1	271.3	359.0	452.6	543.8	643.2	765.3	883.0	995.9	1114.6	1249.1
67.5°	305.7	416.1	524.1	639.4	786.0	928.2	1065.8	1238.3	1405.0	1564.5	1723.6
65°	444.9	567.3	721.8	889.1	1051.9	1253.6	1453.8	1647.0	1860.1	2068.6	2267.4
62.5°	581.7	763.2	951.4	1155.6	1389.8	1617.5	1866.3	2116.1	2356.4	2621.8	2879.5
60°	763.2	972.2	1210.3	1472.2	1736.9	2028.2	2310.7	2618.4	2926.9	3223.6	3535.6
57.5°	951.4	1210.3	1499.8	1801.9	2126.1	2451.8	2811.2	3159.1	3523.3	3878.7	4232.8
55°	1155.6	1472.2	1801.9	2158.9	2529.1	2927.9	3325.8	3740.1	4141.1	4589.8	5019.5
52.5°	1389.8	1736.9	2126.1	2529.1	2966.9	3412.6	3871.3	4346.6	4848.4	5353.6	5897.2
50°	1617.5	2028.2	2451.8	2927.9	3412.6	3915.2	4450.1	5004.9	5600.6	6208.4	6872.0
47.5°	1866.3	2310.7	2811.2	3325.8	3871.3	4450.1	5057.4	5725.0	6397.0	7187.2	7962.0
45°	2116.1	2618.4	3159.1	3740.1	4346.6	5004.9	5725.0	6460.2	7346.0	8238.8	9223.3
42.5°	2356.4	2926.9	3523.3	4141.1	4848.4	5600.6	6397.0	7346.0	8335.1	9419.0	10587.5
40°	2621.8	3223.6	3878.7	4589.8	5353.6	6208.4	7187.2	8238.8	9419.0	10708.0	12045.9
37.5°	2879.5	3535.6	4232.8	5019.5	5897.2	6872.0	7962.0	9223.3	10587.5	12045.9	13708.9
35°	3124.3	3832.1	4610.2	5467.9	6416.0	7564.2	8835.3	10228.4	11800.8	13560.3	15436.5
32.5°	3369.9	4112.5	4967.3	5923.0	7016.0	8261.3	9677.2	11315.1	13117.4	15074.2	17293.3
30°	3609.2	4416.1	5320.3	6351.7	7592.0	9002.0	10597.5	12388.6	14423.1	16739.2	19296.6
27.5°	3832.1	4702.5	5688.2	6822.7	8152.9	9696.5	11499.9	13537.3	15828.5	18391.5	21318.1
25°	4038.1	4967.3	6028.7	7283.4	8749.3	10438.6	12382.5	14609.2	17204.7	20166.3	23391.3
22.5°	4241.8	5210.7	6340.7	7706.0	9297.2	11154.9	13300.0	15762.2	18589.8	21822.2	25365.8
20°	4440.3	5467.9	6662.4	8102.8	9794.4	11806.0	14135.2	16841.0	19989.7	23506.9	27324.3
17.5°	4616.9	5696.9	6974.8	8510.3	10313.9	12439.7	14907.7	17809.8	21249.5	25026.7	29163.5
15°	4771.2	5897.2	7248.1	8867.1	10783.6	13045.5	15694.0	18811.4	22433.8	26417.1	30801.0
12.5°	4902.7	6067.9	7481.2	9171.7	11185.1	13563.8	16367.8	19691.5	23500.5	27714.4	32408.9
10°	5010.8	6208.4	7673.3	9422.9	11516.3	13991.9	16924.9	20420.2	24385.2	28792.4	33747.9
7.5°	5095.4	6318.3	7823.5	9619.4	11775.8	14327.4	17362.0	20992.6	25080.9	29641.5	34804.5
5°	5155.9	6397.0	7931.2	9760.5	11962.0	14568.5	17676.2	21404.5	25582.1	30253.9	35567.8
2.5°	5192.3	6444.4	7996.1	9845.4	12074.2	14713.7	17865.6	21652.9	25884.6	30623.8	36029.3
0°	5204.5	6460.2	8017.7	9873.7	12111.6	14762.2	17928.9	21735.9	25985.7	30747.5	36183.7
-2.5°	5192.3	6444.4	7996.1	9845.4	12074.2	14713.7	17865.6	21652.9	25884.6	30623.8	36029.3
-5°	5155.9	6397.0	7931.2	9760.5	11962.0	14568.5	17676.2	21404.5	25582.1	30253.9	35567.8
-7.5°	5095.4	6318.3	7823.5	9619.4	11775.8	14327.4	17362.0	20992.6	25080.9	29641.5	34804.5
-10°	5010.8	6208.4	7673.3	9422.9	11516.3	13991.9	16924.9	20420.2	24385.2	28792.4	33747.9
-12.5°	4902.7	6067.9	7481.2	9171.7	11185.1	13563.8	16367.8	19691.5	23500.5	27714.4	32408.9
-15°	4771.2	5897.2	7248.1	8867.1	10783.6	13045.5	15694.0	18811.4	22433.8	26417.1	30801.0
-17.5°	4616.9	5696.9	6974.8	8510.3	10313.9	12439.7	14907.7	17809.8	21249.5	25026.7	29163.5
-20°	4440.3	5467.9	6662.4	8102.8	9794.4	11806.0	14135.2	16841.0	19989.7	23506.9	27324.3



REPORT NUMBER: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	4241.8	5210.7	6340.7	7706.0	9297.2	11154.9	13300.0	15762.2	18589.8	21822.2	25365.8
-25°	4038.1	4967.3	6028.7	7283.4	8749.3	10438.6	12382.5	14609.2	17204.7	20166.3	23391.3
-27.5°	3832.1	4702.5	5688.2	6822.7	8152.9	9696.5	11499.9	13537.3	15828.5	18391.5	21318.1
-30°	3609.2	4416.1	5320.3	6351.7	7592.0	9002.0	10597.5	12388.6	14423.1	16739.2	19296.6
-32.5°	3369.9	4112.5	4967.3	5923.0	7016.0	8261.3	9677.2	11315.1	13117.4	15074.2	17293.3
-35°	3124.3	3832.1	4610.2	5467.9	6416.0	7564.2	8835.3	10228.4	11800.8	13560.3	15436.5
-37.5°	2879.5	3535.6	4232.8	5019.5	5897.2	6872.0	7962.0	9223.3	10587.5	12045.9	13708.9
-40°	2621.8	3223.6	3878.7	4589.8	5353.6	6208.4	7187.2	8238.8	9419.0	10708.0	12045.9
-42.5°	2356.4	2926.9	3523.3	4141.1	4848.4	5600.6	6397.0	7346.0	8335.1	9419.0	10587.5
-45°	2116.1	2618.4	3159.1	3740.1	4346.6	5004.9	5725.0	6460.2	7346.0	8238.8	9223.3
-47.5°	1866.3	2310.7	2811.2	3325.8	3871.3	4450.1	5057.4	5725.0	6397.0	7187.2	7962.0
-50°	1617.5	2028.2	2451.8	2927.9	3412.6	3915.2	4450.1	5004.9	5600.6	6208.4	6872.0
-52.5°	1389.8	1736.9	2126.1	2529.1	2966.9	3412.6	3871.3	4346.6	4848.4	5353.6	5897.2
-55°	1155.6	1472.2	1801.9	2158.9	2529.1	2927.9	3325.8	3740.1	4141.1	4589.8	5019.5
-57.5°	951.4	1210.3	1499.8	1801.9	2126.1	2451.8	2811.2	3159.1	3523.3	3878.7	4232.8
-60°	763.2	972.2	1210.3	1472.2	1736.9	2028.2	2310.7	2618.4	2926.9	3223.6	3535.6
-62.5°	581.7	763.2	951.4	1155.6	1389.8	1617.5	1866.3	2116.1	2356.4	2621.8	2879.5
-65°	444.9	567.3	721.8	889.1	1051.9	1253.6	1453.8	1647.0	1860.1	2068.6	2267.4
-67.5°	305.7	416.1	524.1	639.4	786.0	928.2	1065.8	1238.3	1405.0	1564.5	1723.6
-70°	215.1	271.3	359.0	452.6	543.8	643.2	765.3	883.0	995.9	1114.6	1249.1
-72.5°	133.2	182.6	230.7	277.7	353.6	430.8	505.5	577.3	663.4	757.6	847.2
-75°	80.6	95.9	134.1	174.4	213.5	251.3	291.8	353.3	412.2	468.5	522.0
-77.5°	50.5	63.3	75.7	87.8	102.9	134.4	164.8	194.1	222.2	248.9	274.4
-80°	29.2	30.8	40.3	50.0	59.4	68.5	77.2	85.7	93.7	108.3	128.6
-82.5°	24.2	25.4	26.6	27.8	29.0	30.1	32.5	38.8	44.8	50.6	56.1
-85°	18.5	20.0	20.8	21.6	22.4	23.1	23.8	24.5	25.2	25.8	26.4
-87.5°	9.2	10.0	10.7	11.5	12.2	12.9	13.5	14.1	14.7	15.3	15.9
-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: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-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°	16.4	16.9	17.3	17.7	18.1	18.5	18.8	19.1	19.3	19.5	19.7
85°	27.0	27.5	28.0	28.4	28.9	29.2	29.6	29.9	30.2	30.4	30.6
82.5°	61.3	66.1	70.7	74.9	78.8	82.3	85.5	88.3	90.7	92.8	94.5
80°	147.8	165.8	182.7	198.3	212.7	225.8	237.6	248.1	257.2	265.0	271.3
77.5°	310.2	349.7	386.7	421.0	452.5	481.3	507.2	530.2	550.2	567.3	581.2
75°	572.6	626.3	690.0	749.1	803.5	853.2	897.9	937.6	972.2	1001.6	1025.8
72.5°	932.0	1011.8	1091.9	1182.6	1266.2	1342.5	1411.2	1472.2	1525.4	1570.6	1607.8
70°	1376.4	1496.4	1608.7	1719.7	1832.5	1935.4	2028.2	2110.7	2182.6	2243.7	2294.0
67.5°	1892.4	2051.5	2200.6	2339.2	2481.5	2618.4	2741.9	2851.7	2947.5	3029.0	3096.0
65°	2468.5	2677.1	2872.7	3054.8	3223.6	3393.0	3546.0	3682.1	3800.8	3901.9	3985.1
62.5°	3124.3	3369.9	3609.2	3832.1	4038.1	4241.8	4440.3	4616.9	4771.2	4902.7	5010.8
60°	3832.1	4112.5	4416.1	4702.5	4967.3	5210.7	5467.9	5696.9	5897.2	6067.9	6208.4
57.5°	4610.2	4967.3	5320.3	5688.2	6028.7	6340.7	6662.4	6974.8	7248.1	7481.2	7673.3
55°	5467.9	5923.0	6351.7	6822.7	7283.4	7706.0	8102.8	8510.3	8867.1	9171.7	9422.9
52.5°	6416.0	7016.0	7592.0	8152.9	8749.3	9297.2	9794.4	10313.9	10783.6	11185.1	11516.3
50°	7564.2	8261.3	9002.0	9696.5	10438.6	11154.9	11806.0	12439.7	13045.5	13563.8	13991.9
47.5°	8835.3	9677.2	10597.5	11499.9	12382.5	13300.0	14135.2	14907.7	15694.0	16367.8	16924.9
45°	10228.4	11315.1	12388.6	13537.3	14609.2	15762.2	16841.0	17809.8	18811.4	19691.5	20420.2
42.5°	11800.8	13117.4	14423.1	15828.5	17204.7	18589.8	19989.7	21249.5	22433.8	23500.5	24385.2
40°	13560.3	15074.2	16739.2	18391.5	20166.3	21822.2	23506.9	25026.7	26417.1	27714.4	28792.4
37.5°	15436.5	17293.3	19296.6	21318.1	23391.3	25365.8	27324.3	29163.5	30801.0	32408.9	33747.9
35°	17479.3	19754.3	22053.2	24458.9	26817.3	29190.8	31468.4	33735.6	35752.2	37623.7	39220.5
32.5°	19754.3	22316.5	24999.4	27749.2	30464.0	33327.9	36015.1	38679.4	41072.1	43257.2	45180.0
30°	22053.2	24999.4	28062.6	31161.1	34466.1	37707.4	40871.0	43934.3	46798.5	49342.2	51600.0
27.5°	24458.9	27749.2	31161.1	34849.4	38575.7	42225.2	45977.9	49481.7	52821.2	55750.5	58440.2
25°	26817.3	30464.0	34466.1	38575.7	42726.3	47019.4	51223.4	55226.7	59125.8	62607.9	65633.9
22.5°	29190.8	33327.9	37707.4	42225.2	47019.4	51812.3	56518.1	61219.9	65577.7	69513.6	72915.0
20°	31468.4	36015.1	40871.0	45977.9	51223.4	56518.1	61930.1	67118.8	71951.7	76366.7	80159.1
17.5°	33735.6	38679.4	43934.3	49481.7	55226.7	61219.9	67118.8	72795.6	78156.3	82913.4	87038.2
15°	35752.2	41072.1	46798.5	52821.2	59125.8	65577.7	71951.7	78156.3	83858.1	89038.1	93590.9
12.5°	37623.7	43257.2	49342.2	55750.5	62607.9	69513.6	76366.7	82913.4	89038.1	94696.7	99474.3
10°	39220.5	45180.0	51600.0	58440.2	65633.9	72915.0	80159.1	87038.2	93590.9	99474.3	104622.8
7.5°	40483.6	46705.1	53396.8	60590.8	68086.2	75698.1	83181.9	90401.9	97242.6	103446.6	108659.0
5°	41397.6	47811.1	54703.5	62160.2	69883.6	77749.8	85427.7	92925.1	99949.1	106308.5	111622.1
2.5°	41950.8	48481.7	55497.3	63115.8	70981.7	79008.6	86813.5	94494.8	101653.2	108041.3	113399.3
0°	42136.1	48706.4	55763.5	63436.8	71351.1	79433.0	87282.2	95028.1	102236.2	108605.9	114012.5
-2.5°	41950.8	48481.7	55497.3	63115.8	70981.7	79008.6	86813.5	94494.8	101653.2	108041.3	113399.3
-5°	41397.6	47811.1	54703.5	62160.2	69883.6	77749.8	85427.7	92925.1	99949.1	106308.5	111622.1
-7.5°	40483.6	46705.1	53396.8	60590.8	68086.2	75698.1	83181.9	90401.9	97242.6	103446.6	108659.0
-10°	39220.5	45180.0	51600.0	58440.2	65633.9	72915.0	80159.1	87038.2	93590.9	99474.3	104622.8
-12.5°	37623.7	43257.2	49342.2	55750.5	62607.9	69513.6	76366.7	82913.4	89038.1	94696.7	99474.3
-15°	35752.2	41072.1	46798.5	52821.2	59125.8	65577.7	71951.7	78156.3	83858.1	89038.1	93590.9
-17.5°	33735.6	38679.4	43934.3	49481.7	55226.7	61219.9	67118.8	72795.6	78156.3	82913.4	87038.2
-20°	31468.4	36015.1	40871.0	45977.9	51223.4	56518.1	61930.1	67118.8	71951.7	76366.7	80159.1



REPORT NUMBER: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	29190.8	33327.9	37707.4	42225.2	47019.4	51812.3	56518.1	61219.9	65577.7	69513.6	72915.0
-25°	26817.3	30464.0	34466.1	38575.7	42726.3	47019.4	51223.4	55226.7	59125.8	62607.9	65633.9
-27.5°	24458.9	27749.2	31161.1	34849.4	38575.7	42225.2	45977.9	49481.7	52821.2	55750.5	58440.2
-30°	22053.2	24999.4	28062.6	31161.1	34466.1	37707.4	40871.0	43934.3	46798.5	49342.2	51600.0
-32.5°	19754.3	22316.5	24999.4	27749.2	30464.0	33327.9	36015.1	38679.4	41072.1	43257.2	45180.0
-35°	17479.3	19754.3	22053.2	24458.9	26817.3	29190.8	31468.4	33735.6	35752.2	37623.7	39220.5
-37.5°	15436.5	17293.3	19296.6	21318.1	23391.3	25365.8	27324.3	29163.5	30801.0	32408.9	33747.9
-40°	13560.3	15074.2	16739.2	18391.5	20166.3	21822.2	23506.9	25026.7	26417.1	27714.4	28792.4
-42.5°	11800.8	13117.4	14423.1	15828.5	17204.7	18589.8	19989.7	21249.5	22433.8	23500.5	24385.2
-45°	10228.4	11315.1	12388.6	13537.3	14609.2	15762.2	16841.0	17809.8	18811.4	19691.5	20420.2
-47.5°	8835.3	9677.2	10597.5	11499.9	12382.5	13300.0	14135.2	14907.7	15694.0	16367.8	16924.9
-50°	7564.2	8261.3	9002.0	9696.5	10438.6	11154.9	11806.0	12439.7	13045.5	13563.8	13991.9
-52.5°	6416.0	7016.0	7592.0	8152.9	8749.3	9297.2	9794.4	10313.9	10783.6	11185.1	11516.3
-55°	5467.9	5923.0	6351.7	6822.7	7283.4	7706.0	8102.8	8510.3	8867.1	9171.7	9422.9
-57.5°	4610.2	4967.3	5320.3	5688.2	6028.7	6340.7	6662.4	6974.8	7248.1	7481.2	7673.3
-60°	3832.1	4112.5	4416.1	4702.5	4967.3	5210.7	5467.9	5696.9	5897.2	6067.9	6208.4
-62.5°	3124.3	3369.9	3609.2	3832.1	4038.1	4241.8	4440.3	4616.9	4771.2	4902.7	5010.8
-65°	2468.5	2677.1	2872.7	3054.8	3223.6	3393.0	3546.0	3682.1	3800.8	3901.9	3985.1
-67.5°	1892.4	2051.5	2200.6	2339.2	2481.5	2618.4	2741.9	2851.7	2947.5	3029.0	3096.0
-70°	1376.4	1496.4	1608.7	1719.7	1832.5	1935.4	2028.2	2110.7	2182.6	2243.7	2294.0
-72.5°	932.0	1011.8	1091.9	1182.6	1266.2	1342.5	1411.2	1472.2	1525.4	1570.6	1607.8
-75°	572.6	626.3	690.0	749.1	803.5	853.2	897.9	937.6	972.2	1001.6	1025.8
-77.5°	310.2	349.7	386.7	421.0	452.5	481.3	507.2	530.2	550.2	567.3	581.2
-80°	147.8	165.8	182.7	198.3	212.7	225.8	237.6	248.1	257.2	265.0	271.3
-82.5°	61.3	66.1	70.7	74.9	78.8	82.3	85.5	88.3	90.7	92.8	94.5
-85°	27.0	27.5	28.0	28.4	28.9	29.2	29.6	29.9	30.2	30.4	30.6
-87.5°	16.4	16.9	17.3	17.7	18.1	18.5	18.8	19.1	19.3	19.5	19.7
-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: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-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°	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.7	19.5	19.3	19.1
85°	30.7	30.8	30.9	30.9	30.9	30.8	30.7	30.6	30.4	30.2	29.9
82.5°	95.9	96.8	97.4	97.6	97.4	96.8	95.9	94.5	92.8	90.7	88.3
80°	276.3	279.9	282.0	282.7	282.0	279.9	276.3	271.3	265.0	257.2	248.1
77.5°	592.1	599.9	604.6	606.2	604.6	599.9	592.1	581.2	567.3	550.2	530.2
75°	1044.6	1058.1	1066.2	1068.9	1066.2	1058.1	1044.6	1025.8	1001.6	972.2	937.6
72.5°	1636.8	1657.6	1670.0	1674.2	1670.0	1657.6	1636.8	1607.8	1570.6	1525.4	1472.2
70°	2333.2	2361.3	2378.2	2383.8	2378.2	2361.3	2333.2	2294.0	2243.7	2182.6	2110.7
67.5°	3148.4	3185.9	3208.4	3215.9	3208.4	3185.9	3148.4	3096.0	3029.0	2947.5	2851.7
65°	4050.0	4096.6	4124.6	4133.9	4124.6	4096.6	4050.0	3985.1	3901.9	3800.8	3682.1
62.5°	5095.4	5155.9	5192.3	5204.5	5192.3	5155.9	5095.4	5010.8	4902.7	4771.2	4616.9
60°	6318.3	6397.0	6444.4	6460.2	6444.4	6397.0	6318.3	6208.4	6067.9	5897.2	5696.9
57.5°	7823.5	7931.2	7996.1	8017.7	7996.1	7931.2	7823.5	7673.3	7481.2	7248.1	6974.8
55°	9619.4	9760.5	9845.4	9873.7	9845.4	9760.5	9619.4	9422.9	9171.7	8867.1	8510.3
52.5°	11775.8	11962.0	12074.2	12111.6	12074.2	11962.0	11775.8	11516.3	11185.1	10783.6	10313.9
50°	14327.4	14568.5	14713.7	14762.2	14713.7	14568.5	14327.4	13991.9	13563.8	13045.5	12439.7
47.5°	17362.0	17676.2	17865.6	17928.9	17865.6	17676.2	17362.0	16924.9	16367.8	15694.0	14907.7
45°	20992.6	21404.5	21652.9	21735.9	21652.9	21404.5	20992.6	20420.2	19691.5	18811.4	17809.8
42.5°	25080.9	25582.1	25884.6	25985.7	25884.6	25582.1	25080.9	24385.2	23500.5	22433.8	21249.5
40°	29641.5	30253.9	30623.8	30747.5	30623.8	30253.9	29641.5	28792.4	27714.4	26417.1	25026.7
37.5°	34804.5	35567.8	36029.3	36183.7	36029.3	35567.8	34804.5	33747.9	32408.9	30801.0	29163.5
35°	40483.6	41397.6	41950.8	42136.1	41950.8	41397.6	40483.6	39220.5	37623.7	35752.2	33735.6
32.5°	46705.1	47811.1	48481.7	48706.4	48481.7	47811.1	46705.1	45180.0	43257.2	41072.1	38679.4
30°	53396.8	54703.5	55497.3	55763.5	55497.3	54703.5	53396.8	51600.0	49342.2	46798.5	43934.3
27.5°	60590.8	62160.2	63115.8	63436.8	63115.8	62160.2	60590.8	58440.2	55750.5	52821.2	49481.7
25°	68086.2	69883.6	70981.7	71351.1	70981.7	69883.6	68086.2	65633.9	62607.9	59125.8	55226.7
22.5°	75698.1	77749.8	79008.6	79433.0	79008.6	77749.8	75698.1	72915.0	69513.6	65577.7	61219.9
20°	83181.9	85427.7	86813.5	87282.2	86813.5	85427.7	83181.9	80159.1	76366.7	71951.7	67118.8
17.5°	90401.9	92925.1	94494.8	95028.1	94494.8	92925.1	90401.9	87038.2	82913.4	78156.3	72795.6
15°	97242.6	99949.1	101653.2	102236.2	101653.2	99949.1	97242.6	93590.9	89038.1	83858.1	78156.3
12.5°	103446.6	106308.5	108041.3	108605.9	108041.3	106308.5	103446.6	99474.3	94696.7	89038.1	82913.4
10°	108659.0	111622.1	113399.3	114012.5	113399.3	111622.1	108659.0	104622.8	99474.3	93590.9	87038.2
7.5°	112822.2	115879.9	117688.0	118301.5	117688.0	115879.9	112822.2	108659.0	103446.6	97242.6	90401.9
5°	115879.9	118960.7	120847.2	121471.6	120847.2	118960.7	115879.9	111622.1	106308.5	99949.1	92925.1
2.5°	117688.0	120847.2	122728.2	123360.5	122728.2	120847.2	117688.0	113399.3	108041.3	101653.2	94494.8
0°	118301.5	121471.6	123360.5	124023.0	123360.5	121471.6	118301.5	114012.5	108605.9	102236.2	95028.1
-2.5°	117688.0	120847.2	122728.2	123360.5	122728.2	120847.2	117688.0	113399.3	108041.3	101653.2	94494.8
-5°	115879.9	118960.7	120847.2	121471.6	120847.2	118960.7	115879.9	111622.1	106308.5	99949.1	92925.1
-7.5°	112822.2	115879.9	117688.0	118301.5	117688.0	115879.9	112822.2	108659.0	103446.6	97242.6	90401.9
-10°	108659.0	111622.1	113399.3	114012.5	113399.3	111622.1	108659.0	104622.8	99474.3	93590.9	87038.2
-12.5°	103446.6	106308.5	108041.3	108605.9	108041.3	106308.5	103446.6	99474.3	94696.7	89038.1	82913.4
-15°	97242.6	99949.1	101653.2	102236.2	101653.2	99949.1	97242.6	93590.9	89038.1	83858.1	78156.3
-17.5°	90401.9	92925.1	94494.8	95028.1	94494.8	92925.1	90401.9	87038.2	82913.4	78156.3	72795.6
-20°	83181.9	85427.7	86813.5	87282.2	86813.5	85427.7	83181.9	80159.1	76366.7	71951.7	67118.8



REPORT NUMBER: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	75698.1	77749.8	79008.6	79433.0	79008.6	77749.8	75698.1	72915.0	69513.6	65577.7	61219.9
-25°	68086.2	69883.6	70981.7	71351.1	70981.7	69883.6	68086.2	65633.9	62607.9	59125.8	55226.7
-27.5°	60590.8	62160.2	63115.8	63436.8	63115.8	62160.2	60590.8	58440.2	55750.5	52821.2	49481.7
-30°	53396.8	54703.5	55497.3	55763.5	55497.3	54703.5	53396.8	51600.0	49342.2	46798.5	43934.3
-32.5°	46705.1	47811.1	48481.7	48706.4	48481.7	47811.1	46705.1	45180.0	43257.2	41072.1	38679.4
-35°	40483.6	41397.6	41950.8	42136.1	41950.8	41397.6	40483.6	39220.5	37623.7	35752.2	33735.6
-37.5°	34804.5	35567.8	36029.3	36183.7	36029.3	35567.8	34804.5	33747.9	32408.9	30801.0	29163.5
-40°	29641.5	30253.9	30623.8	30747.5	30623.8	30253.9	29641.5	28792.4	27714.4	26417.1	25026.7
-42.5°	25080.9	25582.1	25884.6	25985.7	25884.6	25582.1	25080.9	24385.2	23500.5	22433.8	21249.5
-45°	20992.6	21404.5	21652.9	21735.9	21652.9	21404.5	20992.6	20420.2	19691.5	18811.4	17809.8
-47.5°	17362.0	17676.2	17865.6	17928.9	17865.6	17676.2	17362.0	16924.9	16367.8	15694.0	14907.7
-50°	14327.4	14568.5	14713.7	14762.2	14713.7	14568.5	14327.4	13991.9	13563.8	13045.5	12439.7
-52.5°	11775.8	11962.0	12074.2	12111.6	12074.2	11962.0	11775.8	11516.3	11185.1	10783.6	10313.9
-55°	9619.4	9760.5	9845.4	9873.7	9845.4	9760.5	9619.4	9422.9	9171.7	8867.1	8510.3
-57.5°	7823.5	7931.2	7996.1	8017.7	7996.1	7931.2	7823.5	7673.3	7481.2	7248.1	6974.8
-60°	6318.3	6397.0	6444.4	6460.2	6444.4	6397.0	6318.3	6208.4	6067.9	5897.2	5696.9
-62.5°	5095.4	5155.9	5192.3	5204.5	5192.3	5155.9	5095.4	5010.8	4902.7	4771.2	4616.9
-65°	4050.0	4096.6	4124.6	4133.9	4124.6	4096.6	4050.0	3985.1	3901.9	3800.8	3682.1
-67.5°	3148.4	3185.9	3208.4	3215.9	3208.4	3185.9	3148.4	3096.0	3029.0	2947.5	2851.7
-70°	2333.2	2361.3	2378.2	2383.8	2378.2	2361.3	2333.2	2294.0	2243.7	2182.6	2110.7
-72.5°	1636.8	1657.6	1670.0	1674.2	1670.0	1657.6	1636.8	1607.8	1570.6	1525.4	1472.2
-75°	1044.6	1058.1	1066.2	1068.9	1066.2	1058.1	1044.6	1025.8	1001.6	972.2	937.6
-77.5°	592.1	599.9	604.6	606.2	604.6	599.9	592.1	581.2	567.3	550.2	530.2
-80°	276.3	279.9	282.0	282.7	282.0	279.9	276.3	271.3	265.0	257.2	248.1
-82.5°	95.9	96.8	97.4	97.6	97.4	96.8	95.9	94.5	92.8	90.7	88.3
-85°	30.7	30.8	30.9	30.9	30.9	30.8	30.7	30.6	30.4	30.2	29.9
-87.5°	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.7	19.5	19.3	19.1
-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: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-100R-57-90-7F-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°	18.8	18.5	18.1	17.7	17.3	16.9	16.4	15.9	15.3	14.7	14.1
85°	29.6	29.2	28.9	28.4	28.0	27.5	27.0	26.4	25.8	25.2	24.5
82.5°	85.5	82.3	78.8	74.9	70.7	66.1	61.3	56.1	50.6	44.8	38.8
80°	237.6	225.8	212.7	198.3	182.7	165.8	147.8	128.6	108.3	93.7	85.7
77.5°	507.2	481.3	452.5	421.0	386.7	349.7	310.2	274.4	248.9	222.2	194.1
75°	897.9	853.2	803.5	749.1	690.0	626.3	572.6	522.0	468.5	412.2	353.3
72.5°	1411.2	1342.5	1266.2	1182.6	1091.9	1011.8	932.0	847.2	757.6	663.4	577.3
70°	2028.2	1935.4	1832.5	1719.7	1608.7	1496.4	1376.4	1249.1	1114.6	995.9	883.0
67.5°	2741.9	2618.4	2481.5	2339.2	2200.6	2051.5	1892.4	1723.6	1564.5	1405.0	1238.3
65°	3546.0	3393.0	3223.6	3054.8	2872.7	2677.1	2468.5	2267.4	2068.6	1860.1	1647.0
62.5°	4440.3	4241.8	4038.1	3832.1	3609.2	3369.9	3124.3	2879.5	2621.8	2356.4	2116.1
60°	5467.9	5210.7	4967.3	4702.5	4416.1	4112.5	3832.1	3535.6	3223.6	2926.9	2618.4
57.5°	6662.4	6340.7	6028.7	5688.2	5320.3	4967.3	4610.2	4232.8	3878.7	3523.3	3159.1
55°	8102.8	7706.0	7283.4	6822.7	6351.7	5923.0	5467.9	5019.5	4589.8	4141.1	3740.1
52.5°	9794.4	9297.2	8749.3	8152.9	7592.0	7016.0	6416.0	5897.2	5353.6	4848.4	4346.6
50°	11806.0	11154.9	10438.6	9696.5	9002.0	8261.3	7564.2	6872.0	6208.4	5600.6	5004.9
47.5°	14135.2	13300.0	12382.5	11499.9	10597.5	9677.2	8835.3	7962.0	7187.2	6397.0	5725.0
45°	16841.0	15762.2	14609.2	13537.3	12388.6	11315.1	10228.4	9223.3	8238.8	7346.0	6460.2
42.5°	19989.7	18589.8	17204.7	15828.5	14423.1	13117.4	11800.8	10587.5	9419.0	8335.1	7346.0
40°	23506.9	21822.2	20166.3	18391.5	16739.2	15074.2	13560.3	12045.9	10708.0	9419.0	8238.8
37.5°	27324.3	25365.8	23391.3	21318.1	19296.6	17293.3	15436.5	13708.9	12045.9	10587.5	9223.3
35°	31468.4	29190.8	26817.3	24458.9	22053.2	19754.3	17479.3	15436.5	13560.3	11800.8	10228.4
32.5°	36015.1	33327.9	30464.0	27749.2	24999.4	22316.5	19754.3	17293.3	15074.2	13117.4	11315.1
30°	40871.0	37707.4	34466.1	31161.1	28062.6	24999.4	22053.2	19296.6	16739.2	14423.1	12388.6
27.5°	45977.9	42225.2	38575.7	34849.4	31161.1	27749.2	24458.9	21318.1	18391.5	15828.5	13537.3
25°	51223.4	47019.4	42726.3	38575.7	34466.1	30464.0	26817.3	23391.3	20166.3	17204.7	14609.2
22.5°	56518.1	51812.3	47019.4	42225.2	37707.4	33327.9	29190.8	25365.8	21822.2	18589.8	15762.2
20°	61930.1	56518.1	51223.4	45977.9	40871.0	36015.1	31468.4	27324.3	23506.9	19989.7	16841.0
17.5°	67118.8	61219.9	55226.7	49481.7	43934.3	38679.4	33735.6	29163.5	25026.7	21249.5	17809.8
15°	71951.7	65577.7	59125.8	52821.2	46798.5	41072.1	35752.2	30801.0	26417.1	22433.8	18811.4
12.5°	76366.7	69513.6	62607.9	55750.5	49342.2	43257.2	37623.7	32408.9	27714.4	23500.5	19691.5
10°	80159.1	72915.0	65633.9	58440.2	51600.0	45180.0	39220.5	33747.9	28792.4	24385.2	20420.2
7.5°	83181.9	75698.1	68086.2	60590.8	53396.8	46705.1	40483.6	34804.5	29641.5	25080.9	20992.6
5°	85427.7	77749.8	69883.6	62160.2	54703.5	47811.1	41397.6	35567.8	30253.9	25582.1	21404.5
2.5°	86813.5	79008.6	70981.7	63115.8	55497.3	48481.7	41950.8	36029.3	30623.8	25884.6	21652.9
0°	87282.2	79433.0	71351.1	63436.8	55763.5	48706.4	42136.1	36183.7	30747.5	25985.7	21735.9
-2.5°	86813.5	79008.6	70981.7	63115.8	55497.3	48481.7	41950.8	36029.3	30623.8	25884.6	21652.9
-5°	85427.7	77749.8	69883.6	62160.2	54703.5	47811.1	41397.6	35567.8	30253.9	25582.1	21404.5
-7.5°	83181.9	75698.1	68086.2	60590.8	53396.8	46705.1	40483.6	34804.5	29641.5	25080.9	20992.6
-10°	80159.1	72915.0	65633.9	58440.2	51600.0	45180.0	39220.5	33747.9	28792.4	24385.2	20420.2
-12.5°	76366.7	69513.6	62607.9	55750.5	49342.2	43257.2	37623.7	32408.9	27714.4	23500.5	19691.5
-15°	71951.7	65577.7	59125.8	52821.2	46798.5	41072.1	35752.2	30801.0	26417.1	22433.8	18811.4
-17.5°	67118.8	61219.9	55226.7	49481.7	43934.3	38679.4	33735.6	29163.5	25026.7	21249.5	17809.8
-20°	61930.1	56518.1	51223.4	45977.9	40871.0	36015.1	31468.4	27324.3	23506.9	19989.7	16841.0



REPORT NUMBER: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	56518.1	51812.3	47019.4	42225.2	37707.4	33327.9	29190.8	25365.8	21822.2	18589.8	15762.2
-25°	51223.4	47019.4	42726.3	38575.7	34466.1	30464.0	26817.3	23391.3	20166.3	17204.7	14609.2
-27.5°	45977.9	42225.2	38575.7	34849.4	31161.1	27749.2	24458.9	21318.1	18391.5	15828.5	13537.3
-30°	40871.0	37707.4	34466.1	31161.1	28062.6	24999.4	22053.2	19296.6	16739.2	14423.1	12388.6
-32.5°	36015.1	33327.9	30464.0	27749.2	24999.4	22316.5	19754.3	17293.3	15074.2	13117.4	11315.1
-35°	31468.4	29190.8	26817.3	24458.9	22053.2	19754.3	17479.3	15436.5	13560.3	11800.8	10228.4
-37.5°	27324.3	25365.8	23391.3	21318.1	19296.6	17293.3	15436.5	13708.9	12045.9	10587.5	9223.3
-40°	23506.9	21822.2	20166.3	18391.5	16739.2	15074.2	13560.3	12045.9	10708.0	9419.0	8238.8
-42.5°	19989.7	18589.8	17204.7	15828.5	14423.1	13117.4	11800.8	10587.5	9419.0	8335.1	7346.0
-45°	16841.0	15762.2	14609.2	13537.3	12388.6	11315.1	10228.4	9223.3	8238.8	7346.0	6460.2
-47.5°	14135.2	13300.0	12382.5	11499.9	10597.5	9677.2	8835.3	7962.0	7187.2	6397.0	5725.0
-50°	11806.0	11154.9	10438.6	9696.5	9002.0	8261.3	7564.2	6872.0	6208.4	5600.6	5004.9
-52.5°	9794.4	9297.2	8749.3	8152.9	7592.0	7016.0	6416.0	5897.2	5353.6	4848.4	4346.6
-55°	8102.8	7706.0	7283.4	6822.7	6351.7	5923.0	5467.9	5019.5	4589.8	4141.1	3740.1
-57.5°	6662.4	6340.7	6028.7	5688.2	5320.3	4967.3	4610.2	4232.8	3878.7	3523.3	3159.1
-60°	5467.9	5210.7	4967.3	4702.5	4416.1	4112.5	3832.1	3535.6	3223.6	2926.9	2618.4
-62.5°	4440.3	4241.8	4038.1	3832.1	3609.2	3369.9	3124.3	2879.5	2621.8	2356.4	2116.1
-65°	3546.0	3393.0	3223.6	3054.8	2872.7	2677.1	2468.5	2267.4	2068.6	1860.1	1647.0
-67.5°	2741.9	2618.4	2481.5	2339.2	2200.6	2051.5	1892.4	1723.6	1564.5	1405.0	1238.3
-70°	2028.2	1935.4	1832.5	1719.7	1608.7	1496.4	1376.4	1249.1	1114.6	995.9	883.0
-72.5°	1411.2	1342.5	1266.2	1182.6	1091.9	1011.8	932.0	847.2	757.6	663.4	577.3
-75°	897.9	853.2	803.5	749.1	690.0	626.3	572.6	522.0	468.5	412.2	353.3
-77.5°	507.2	481.3	452.5	421.0	386.7	349.7	310.2	274.4	248.9	222.2	194.1
-80°	237.6	225.8	212.7	198.3	182.7	165.8	147.8	128.6	108.3	93.7	85.7
-82.5°	85.5	82.3	78.8	74.9	70.7	66.1	61.3	56.1	50.6	44.8	38.8
-85°	29.6	29.2	28.9	28.4	28.0	27.5	27.0	26.4	25.8	25.2	24.5
-87.5°	18.8	18.5	18.1	17.7	17.3	16.9	16.4	15.9	15.3	14.7	14.1
-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: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-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°	13.5	12.9	12.2	11.5	10.7	10.0	9.2	8.5	7.7	6.8	6.0
85°	23.8	23.1	22.4	21.6	20.8	20.0	18.5	16.9	15.3	13.7	12.0
82.5°	32.5	30.1	29.0	27.8	26.6	25.4	24.2	22.9	21.6	20.3	18.0
80°	77.2	68.5	59.4	50.0	40.3	30.8	29.2	27.4	25.7	23.9	22.2
77.5°	164.8	134.4	102.9	87.8	75.7	63.3	50.5	37.5	29.8	27.6	25.4
75°	291.8	251.3	213.5	174.4	134.1	95.9	80.6	65.0	49.2	33.0	28.6
72.5°	505.5	430.8	353.6	277.7	230.7	182.6	133.2	92.3	73.8	55.0	35.9
70°	765.3	643.2	543.8	452.6	359.0	271.3	215.1	157.6	99.1	76.7	55.0
67.5°	1065.8	928.2	786.0	639.4	524.1	416.1	305.7	231.4	165.8	99.1	73.8
65°	1453.8	1253.6	1051.9	889.1	721.8	567.3	444.9	320.0	231.4	157.6	92.3
62.5°	1866.3	1617.5	1389.8	1155.6	951.4	763.2	581.7	444.9	305.7	215.1	133.2
60°	2310.7	2028.2	1736.9	1472.2	1210.3	972.2	763.2	567.3	416.1	271.3	182.6
57.5°	2811.2	2451.8	2126.1	1801.9	1499.8	1210.3	951.4	721.8	524.1	359.0	230.7
55°	3325.8	2927.9	2529.1	2158.9	1801.9	1472.2	1155.6	889.1	639.4	452.6	277.7
52.5°	3871.3	3412.6	2966.9	2529.1	2126.1	1736.9	1389.8	1051.9	786.0	543.8	353.6
50°	4450.1	3915.2	3412.6	2927.9	2451.8	2028.2	1617.5	1253.6	928.2	643.2	430.8
47.5°	5057.4	4450.1	3871.3	3325.8	2811.2	2310.7	1866.3	1453.8	1065.8	765.3	505.5
45°	5725.0	5004.9	4346.6	3740.1	3159.1	2618.4	2116.1	1647.0	1238.3	883.0	577.3
42.5°	6397.0	5600.6	4848.4	4141.1	3523.3	2926.9	2356.4	1860.1	1405.0	995.9	663.4
40°	7187.2	6208.4	5353.6	4589.8	3878.7	3223.6	2621.8	2068.6	1564.5	1114.6	757.6
37.5°	7962.0	6872.0	5897.2	5019.5	4232.8	3535.6	2879.5	2267.4	1723.6	1249.1	847.2
35°	8835.3	7564.2	6416.0	5467.9	4610.2	3832.1	3124.3	2468.5	1892.4	1376.4	932.0
32.5°	9677.2	8261.3	7016.0	5923.0	4967.3	4112.5	3369.9	2677.1	2051.5	1496.4	1011.8
30°	10597.5	9002.0	7592.0	6351.7	5320.3	4416.1	3609.2	2872.7	2200.6	1608.7	1091.9
27.5°	11499.9	9696.5	8152.9	6822.7	5688.2	4702.5	3832.1	3054.8	2339.2	1719.7	1182.6
25°	12382.5	10438.6	8749.3	7283.4	6028.7	4967.3	4038.1	3223.6	2481.5	1832.5	1266.2
22.5°	13300.0	11154.9	9297.2	7706.0	6340.7	5210.7	4241.8	3393.0	2618.4	1935.4	1342.5
20°	14135.2	11806.0	9794.4	8102.8	6662.4	5467.9	4440.3	3546.0	2741.9	2028.2	1411.2
17.5°	14907.7	12439.7	10313.9	8510.3	6974.8	5696.9	4616.9	3682.1	2851.7	2110.7	1472.2
15°	15694.0	13045.5	10783.6	8867.1	7248.1	5897.2	4771.2	3800.8	2947.5	2182.6	1525.4
12.5°	16367.8	13563.8	11185.1	9171.7	7481.2	6067.9	4902.7	3901.9	3029.0	2243.7	1570.6
10°	16924.9	13991.9	11516.3	9422.9	7673.3	6208.4	5010.8	3985.1	3096.0	2294.0	1607.8
7.5°	17362.0	14327.4	11775.8	9619.4	7823.5	6318.3	5095.4	4050.0	3148.4	2333.2	1636.8
5°	17676.2	14568.5	11962.0	9760.5	7931.2	6397.0	5155.9	4096.6	3185.9	2361.3	1657.6
2.5°	17865.6	14713.7	12074.2	9845.4	7996.1	6444.4	5192.3	4124.6	3208.4	2378.2	1670.0
0°	17928.9	14762.2	12111.6	9873.7	8017.7	6460.2	5204.5	4133.9	3215.9	2383.8	1674.2
-2.5°	17865.6	14713.7	12074.2	9845.4	7996.1	6444.4	5192.3	4124.6	3208.4	2378.2	1670.0
-5°	17676.2	14568.5	11962.0	9760.5	7931.2	6397.0	5155.9	4096.6	3185.9	2361.3	1657.6
-7.5°	17362.0	14327.4	11775.8	9619.4	7823.5	6318.3	5095.4	4050.0	3148.4	2333.2	1636.8
-10°	16924.9	13991.9	11516.3	9422.9	7673.3	6208.4	5010.8	3985.1	3096.0	2294.0	1607.8
-12.5°	16367.8	13563.8	11185.1	9171.7	7481.2	6067.9	4902.7	3901.9	3029.0	2243.7	1570.6
-15°	15694.0	13045.5	10783.6	8867.1	7248.1	5897.2	4771.2	3800.8	2947.5	2182.6	1525.4
-17.5°	14907.7	12439.7	10313.9	8510.3	6974.8	5696.9	4616.9	3682.1	2851.7	2110.7	1472.2
-20°	14135.2	11806.0	9794.4	8102.8	6662.4	5467.9	4440.3	3546.0	2741.9	2028.2	1411.2



REPORT NUMBER: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	13300.0	11154.9	9297.2	7706.0	6340.7	5210.7	4241.8	3393.0	2618.4	1935.4	1342.5
-25°	12382.5	10438.6	8749.3	7283.4	6028.7	4967.3	4038.1	3223.6	2481.5	1832.5	1266.2
-27.5°	11499.9	9696.5	8152.9	6822.7	5688.2	4702.5	3832.1	3054.8	2339.2	1719.7	1182.6
-30°	10597.5	9002.0	7592.0	6351.7	5320.3	4416.1	3609.2	2872.7	2200.6	1608.7	1091.9
-32.5°	9677.2	8261.3	7016.0	5923.0	4967.3	4112.5	3369.9	2677.1	2051.5	1496.4	1011.8
-35°	8835.3	7564.2	6416.0	5467.9	4610.2	3832.1	3124.3	2468.5	1892.4	1376.4	932.0
-37.5°	7962.0	6872.0	5897.2	5019.5	4232.8	3535.6	2879.5	2267.4	1723.6	1249.1	847.2
-40°	7187.2	6208.4	5353.6	4589.8	3878.7	3223.6	2621.8	2068.6	1564.5	1114.6	757.6
-42.5°	6397.0	5600.6	4848.4	4141.1	3523.3	2926.9	2356.4	1860.1	1405.0	995.9	663.4
-45°	5725.0	5004.9	4346.6	3740.1	3159.1	2618.4	2116.1	1647.0	1238.3	883.0	577.3
-47.5°	5057.4	4450.1	3871.3	3325.8	2811.2	2310.7	1866.3	1453.8	1065.8	765.3	505.5
-50°	4450.1	3915.2	3412.6	2927.9	2451.8	2028.2	1617.5	1253.6	928.2	643.2	430.8
-52.5°	3871.3	3412.6	2966.9	2529.1	2126.1	1736.9	1389.8	1051.9	786.0	543.8	353.6
-55°	3325.8	2927.9	2529.1	2158.9	1801.9	1472.2	1155.6	889.1	639.4	452.6	277.7
-57.5°	2811.2	2451.8	2126.1	1801.9	1499.8	1210.3	951.4	721.8	524.1	359.0	230.7
-60°	2310.7	2028.2	1736.9	1472.2	1210.3	972.2	763.2	567.3	416.1	271.3	182.6
-62.5°	1866.3	1617.5	1389.8	1155.6	951.4	763.2	581.7	444.9	305.7	215.1	133.2
-65°	1453.8	1253.6	1051.9	889.1	721.8	567.3	444.9	320.0	231.4	157.6	92.3
-67.5°	1065.8	928.2	786.0	639.4	524.1	416.1	305.7	231.4	165.8	99.1	73.8
-70°	765.3	643.2	543.8	452.6	359.0	271.3	215.1	157.6	99.1	76.7	55.0
-72.5°	505.5	430.8	353.6	277.7	230.7	182.6	133.2	92.3	73.8	55.0	35.9
-75°	291.8	251.3	213.5	174.4	134.1	95.9	80.6	65.0	49.2	33.0	28.6
-77.5°	164.8	134.4	102.9	87.8	75.7	63.3	50.5	37.5	29.8	27.6	25.4
-80°	77.2	68.5	59.4	50.0	40.3	30.8	29.2	27.4	25.7	23.9	22.2
-82.5°	32.5	30.1	29.0	27.8	26.6	25.4	24.2	22.9	21.6	20.3	18.0
-85°	23.8	23.1	22.4	21.6	20.8	20.0	18.5	16.9	15.3	13.7	12.0
-87.5°	13.5	12.9	12.2	11.5	10.7	10.0	9.2	8.5	7.7	6.8	6.0
-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: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-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°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
85°	10.3	8.6	6.9	5.2	3.5	1.7	0.0
82.5°	15.5	13.0	10.4	7.8	5.2	2.6	0.0
80°	20.3	17.2	13.8	10.4	6.9	3.5	0.0
77.5°	23.1	20.8	17.2	13.0	8.6	4.3	0.0
75°	25.8	23.1	20.3	15.5	10.3	5.2	0.0
72.5°	28.6	25.4	22.2	18.0	12.0	6.0	0.0
70°	33.0	27.6	23.9	20.3	13.7	6.8	0.0
67.5°	49.2	29.8	25.7	21.6	15.3	7.7	0.0
65°	65.0	37.5	27.4	22.9	16.9	8.5	0.0
62.5°	80.6	50.5	29.2	24.2	18.5	9.2	0.0
60°	95.9	63.3	30.8	25.4	20.0	10.0	0.0
57.5°	134.1	75.7	40.3	26.6	20.8	10.7	0.0
55°	174.4	87.8	50.0	27.8	21.6	11.5	0.0
52.5°	213.5	102.9	59.4	29.0	22.4	12.2	0.0
50°	251.3	134.4	68.5	30.1	23.1	12.9	0.0
47.5°	291.8	164.8	77.2	32.5	23.8	13.5	0.0
45°	353.3	194.1	85.7	38.8	24.5	14.1	0.0
42.5°	412.2	222.2	93.7	44.8	25.2	14.7	0.0
40°	468.5	248.9	108.3	50.6	25.8	15.3	0.0
37.5°	522.0	274.4	128.6	56.1	26.4	15.9	0.0
35°	572.6	310.2	147.8	61.3	27.0	16.4	0.0
32.5°	626.3	349.7	165.8	66.1	27.5	16.9	0.0
30°	690.0	386.7	182.7	70.7	28.0	17.3	0.0
27.5°	749.1	421.0	198.3	74.9	28.4	17.7	0.0
25°	803.5	452.5	212.7	78.8	28.9	18.1	0.0
22.5°	853.2	481.3	225.8	82.3	29.2	18.5	0.0
20°	897.9	507.2	237.6	85.5	29.6	18.8	0.0
17.5°	937.6	530.2	248.1	88.3	29.9	19.1	0.0
15°	972.2	550.2	257.2	90.7	30.2	19.3	0.0
12.5°	1001.6	567.3	265.0	92.8	30.4	19.5	0.0
10°	1025.8	581.2	271.3	94.5	30.6	19.7	0.0
7.5°	1044.6	592.1	276.3	95.9	30.7	19.8	0.0
5°	1058.1	599.9	279.9	96.8	30.8	19.9	0.0
2.5°	1066.2	604.6	282.0	97.4	30.9	20.0	0.0
0°	1068.9	606.2	282.7	97.6	30.9	20.0	0.0
-2.5°	1066.2	604.6	282.0	97.4	30.9	20.0	0.0
-5°	1058.1	599.9	279.9	96.8	30.8	19.9	0.0
-7.5°	1044.6	592.1	276.3	95.9	30.7	19.8	0.0
-10°	1025.8	581.2	271.3	94.5	30.6	19.7	0.0
-12.5°	1001.6	567.3	265.0	92.8	30.4	19.5	0.0
-15°	972.2	550.2	257.2	90.7	30.2	19.3	0.0
-17.5°	937.6	530.2	248.1	88.3	29.9	19.1	0.0
-20°	897.9	507.2	237.6	85.5	29.6	18.8	0.0



REPORT NUMBER: P1212229 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-90-7F-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	853.2	481.3	225.8	82.3	29.2	18.5	0.0
-25°	803.5	452.5	212.7	78.8	28.9	18.1	0.0
-27.5°	749.1	421.0	198.3	74.9	28.4	17.7	0.0
-30°	690.0	386.7	182.7	70.7	28.0	17.3	0.0
-32.5°	626.3	349.7	165.8	66.1	27.5	16.9	0.0
-35°	572.6	310.2	147.8	61.3	27.0	16.4	0.0
-37.5°	522.0	274.4	128.6	56.1	26.4	15.9	0.0
-40°	468.5	248.9	108.3	50.6	25.8	15.3	0.0
-42.5°	412.2	222.2	93.7	44.8	25.2	14.7	0.0
-45°	353.3	194.1	85.7	38.8	24.5	14.1	0.0
-47.5°	291.8	164.8	77.2	32.5	23.8	13.5	0.0
-50°	251.3	134.4	68.5	30.1	23.1	12.9	0.0
-52.5°	213.5	102.9	59.4	29.0	22.4	12.2	0.0
-55°	174.4	87.8	50.0	27.8	21.6	11.5	0.0
-57.5°	134.1	75.7	40.3	26.6	20.8	10.7	0.0
-60°	95.9	63.3	30.8	25.4	20.0	10.0	0.0
-62.5°	80.6	50.5	29.2	24.2	18.5	9.2	0.0
-65°	65.0	37.5	27.4	22.9	16.9	8.5	0.0
-67.5°	49.2	29.8	25.7	21.6	15.3	7.7	0.0
-70°	33.0	27.6	23.9	20.3	13.7	6.8	0.0
-72.5°	28.6	25.4	22.2	18.0	12.0	6.0	0.0
-75°	25.8	23.1	20.3	15.5	10.3	5.2	0.0
-77.5°	23.1	20.8	17.2	13.0	8.6	4.3	0.0
-80°	20.3	17.2	13.8	10.4	6.9	3.5	0.0
-82.5°	15.5	13.0	10.4	7.8	5.2	2.6	0.0
-85°	10.3	8.6	6.9	5.2	3.5	1.7	0.0
-87.5°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)