

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: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-40-80-7F-HEG**

Issue Date: 11/14/2025

Test Information

Test Method: LM-79-08
Report Number: P1212103 (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-40-80-7F-HEG
Description: EPHESUS LS12 LUMINAIRE
(12) 4000K, 80 CRI LEDS AND 7F BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

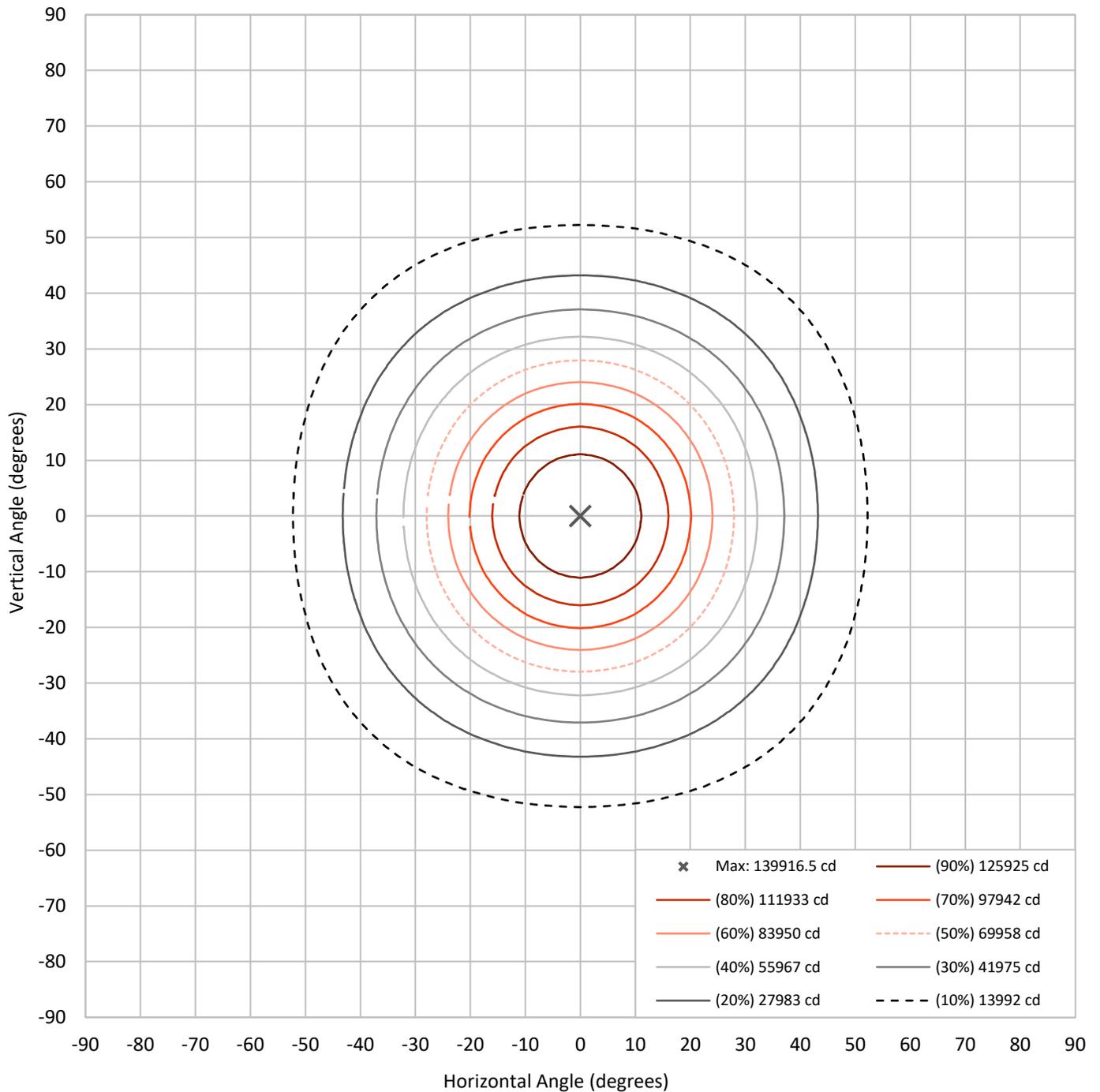
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	146878 lumens	Max Intensity:	139916.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	141.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	55.9°H x 55.9°V	Field Angle (10%):	104.5°H x 104.5°V
Beam Lumens:	73678.5 lumens	Field Lumens:	133526.8 lumens
Beam Efficiency:	50.2%	Field Efficiency:	90.9%

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: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-1000R-40-80-7F-HEG

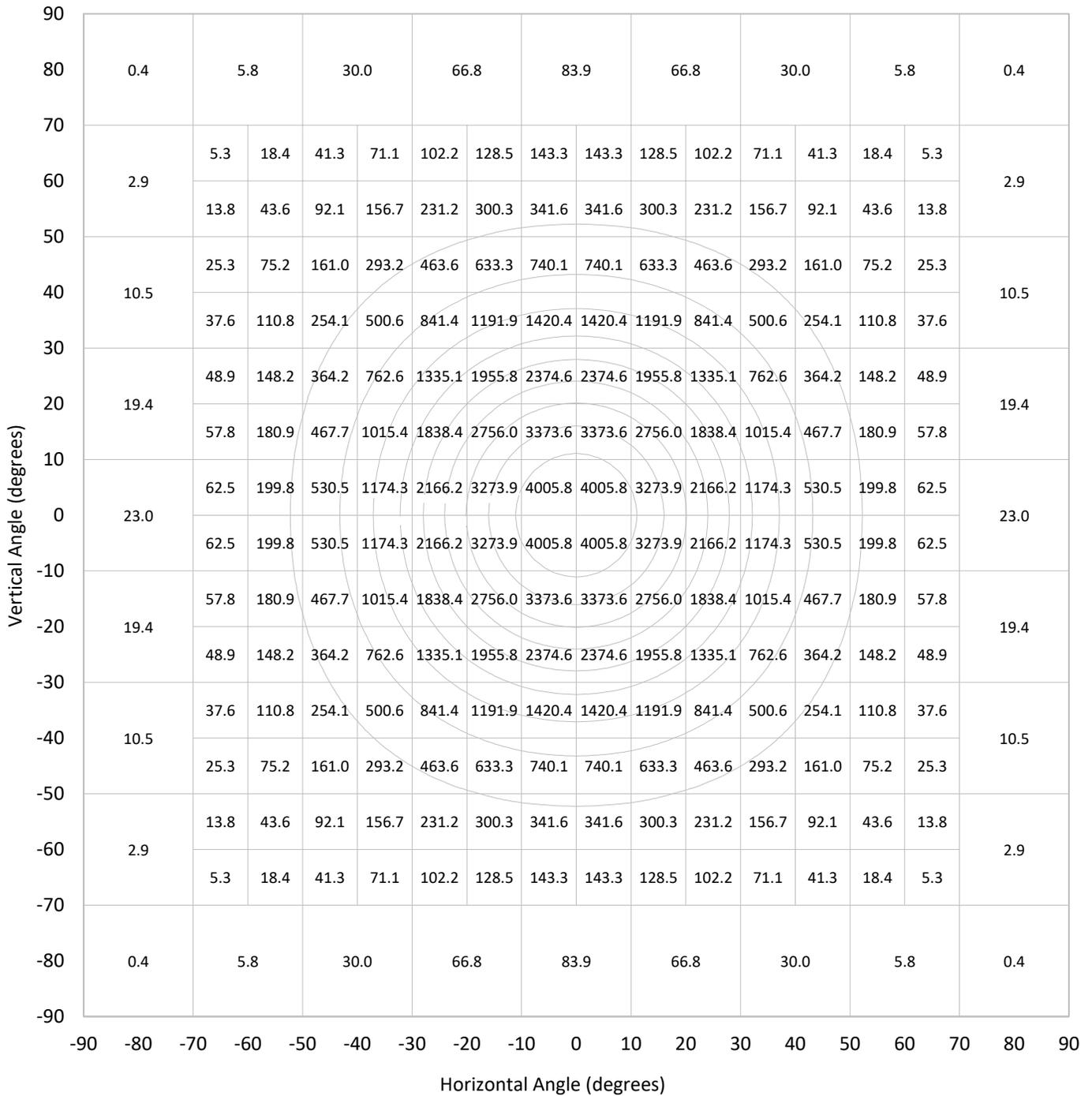
Iso-Candela Plot





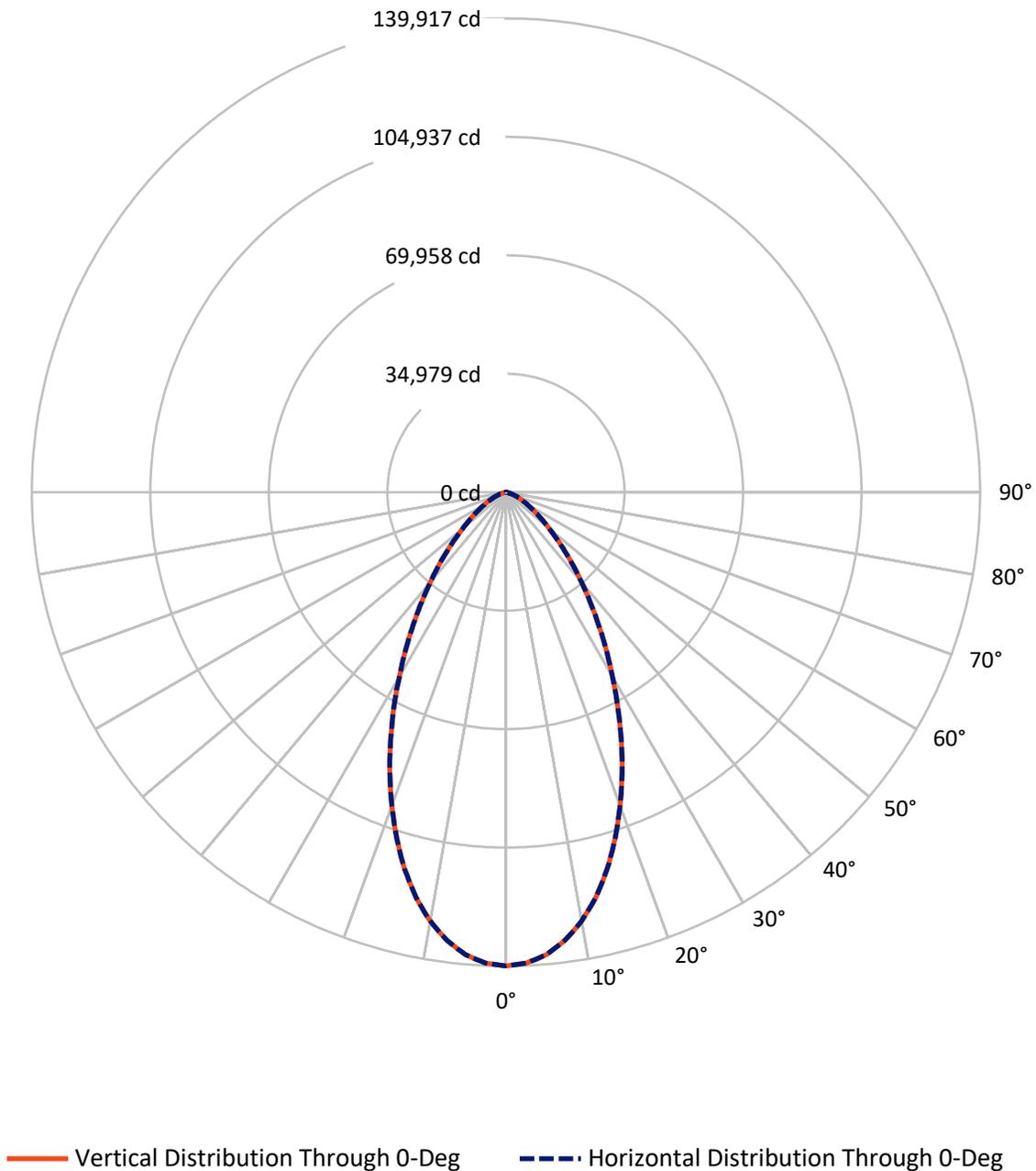
REPORT NUMBER: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-7F-HEG

Lumen Table



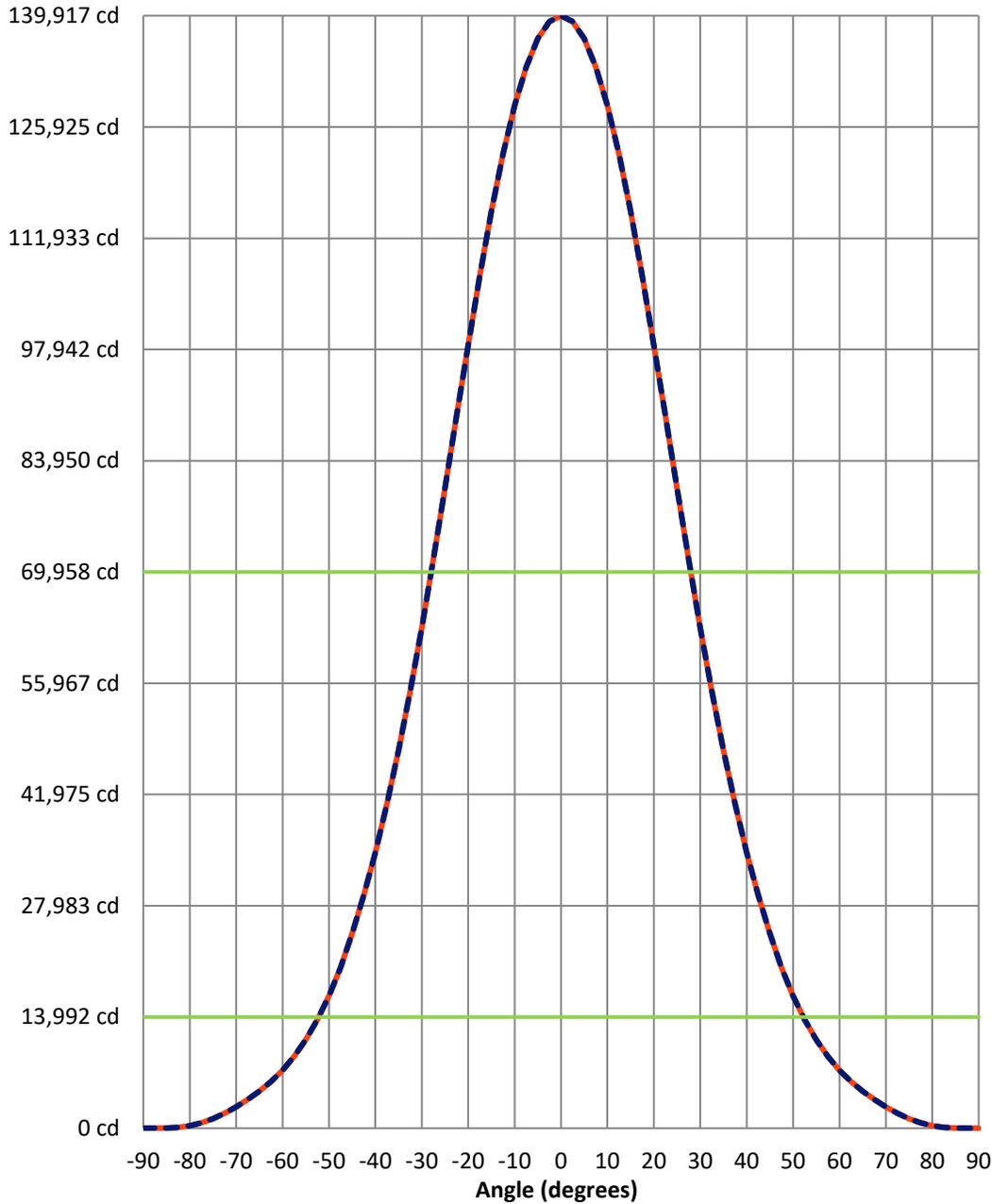
REPORT NUMBER: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS12-1000R-40-80-7F-HEG

Luminous Intensity Polar Plot



REPORT NUMBER: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS12-1000R-40-80-7F-HEG

Luminous Intensity Plot



Beam:
H Angle: 55.9°
V Angle: 55.9°
Lumens: 73678.5
Efficiency: 50.2%

Field:
H Angle: 104.5°
V Angle: 104.5°
Lumens: 133526.8
Efficiency: 90.9%

Spill:
Lumens: 13351.2
Efficiency: 9.1%

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



REPORT NUMBER: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-7F-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	1.0	2.0	2.9	3.9	4.9	5.8	6.8	7.7	8.6	9.5
85°	0.0	2.0	3.9	5.9	7.8	9.8	11.7	13.6	15.4	17.3	19.1
82.5°	0.0	2.9	5.9	8.8	11.7	14.6	17.5	20.3	22.9	24.4	25.8
80°	0.0	3.9	7.8	11.7	15.6	19.5	23.0	25.0	27.0	29.0	30.9
77.5°	0.0	4.9	9.8	14.6	19.5	23.5	26.1	28.6	31.1	33.6	42.3
75°	0.0	5.8	11.7	17.5	23.0	26.1	29.1	32.2	37.2	55.4	73.3
72.5°	0.0	6.8	13.6	20.3	25.0	28.6	32.2	40.5	62.0	83.2	104.1
70°	0.0	7.7	15.4	22.9	27.0	31.1	37.2	62.0	86.5	111.8	177.8
67.5°	0.0	8.6	17.3	24.4	29.0	33.6	55.4	83.2	111.8	187.0	261.0
65°	0.0	9.5	19.1	25.8	30.9	42.3	73.3	104.1	177.8	261.0	361.0
62.5°	0.0	10.4	20.9	27.3	32.8	57.0	90.9	150.3	242.6	344.9	501.8
60°	0.0	11.3	22.6	28.7	34.7	71.3	108.2	205.9	306.1	469.4	639.9
57.5°	0.0	12.1	23.5	30.0	45.4	85.3	151.3	260.3	404.9	591.2	814.3
55°	0.0	13.0	24.4	31.4	56.4	99.0	196.7	313.2	510.6	721.3	1003.0
52.5°	0.0	13.8	25.2	32.6	67.0	116.1	240.8	398.9	613.4	886.7	1186.8
50°	0.0	14.5	26.1	33.9	77.2	151.6	283.5	486.0	725.6	1047.2	1414.2
47.5°	0.0	15.3	26.9	36.6	87.1	186.0	329.2	570.2	863.4	1202.4	1640.2
45°	0.0	16.0	27.6	43.7	96.6	219.0	398.5	651.2	996.1	1397.1	1858.1
42.5°	0.0	16.7	28.4	50.5	105.8	250.6	465.0	748.4	1123.5	1585.1	2098.5
40°	0.0	17.3	29.1	57.0	122.1	280.8	528.4	854.6	1257.5	1765.0	2333.7
37.5°	0.0	17.9	29.7	63.2	145.1	309.5	588.8	955.7	1409.2	1944.6	2558.0
35°	0.0	18.5	30.4	69.1	166.7	349.9	645.9	1051.4	1552.9	2135.0	2784.8
32.5°	0.0	19.1	31.0	74.6	187.1	394.5	706.4	1141.5	1688.2	2314.5	3020.2
30°	0.0	19.6	31.5	79.7	206.1	436.2	778.3	1231.8	1814.9	2482.6	3240.9
27.5°	0.0	20.0	32.0	84.5	223.7	474.9	845.0	1334.2	1940.2	2639.0	3446.3
25°	0.0	20.5	32.5	88.8	240.0	510.5	906.5	1428.5	2067.4	2799.5	3636.7
22.5°	0.0	20.9	32.9	92.8	254.7	542.9	962.5	1514.5	2183.5	2953.9	3827.8
20°	0.0	21.2	33.3	96.4	268.1	572.2	1013.0	1592.1	2288.2	3093.3	4000.4
17.5°	0.0	21.6	33.7	99.6	279.9	598.1	1057.7	1660.9	2381.2	3217.2	4153.9
15°	0.0	21.8	34.0	102.4	290.2	620.7	1096.8	1720.9	2462.3	3325.2	4287.9
12.5°	0.0	22.1	34.2	104.7	298.9	639.9	1130.0	1772.0	2531.3	3417.2	4402.0
10°	0.0	22.3	34.4	106.6	306.1	655.6	1157.2	1813.9	2588.0	3492.8	4495.8
7.5°	0.0	22.4	34.6	108.2	311.7	667.9	1178.5	1846.6	2632.2	3551.8	4569.1
5°	0.0	22.5	34.7	109.2	315.7	676.7	1193.7	1870.0	2663.9	3594.1	4621.6
2.5°	0.0	22.6	34.8	109.9	318.1	682.0	1202.8	1884.1	2682.9	3619.5	4653.2
0°	0.0	22.6	34.8	110.1	318.9	683.8	1205.9	1888.8	2689.3	3628.0	4663.7
-2.5°	0.0	22.6	34.8	109.9	318.1	682.0	1202.8	1884.1	2682.9	3619.5	4653.2
-5°	0.0	22.5	34.7	109.2	315.7	676.7	1193.7	1870.0	2663.9	3594.1	4621.6
-7.5°	0.0	22.4	34.6	108.2	311.7	667.9	1178.5	1846.6	2632.2	3551.8	4569.1
-10°	0.0	22.3	34.4	106.6	306.1	655.6	1157.2	1813.9	2588.0	3492.8	4495.8
-12.5°	0.0	22.1	34.2	104.7	298.9	639.9	1130.0	1772.0	2531.3	3417.2	4402.0
-15°	0.0	21.8	34.0	102.4	290.2	620.7	1096.8	1720.9	2462.3	3325.2	4287.9
-17.5°	0.0	21.6	33.7	99.6	279.9	598.1	1057.7	1660.9	2381.2	3217.2	4153.9
-20°	0.0	21.2	33.3	96.4	268.1	572.2	1013.0	1592.1	2288.2	3093.3	4000.4



REPORT NUMBER: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	20.9	32.9	92.8	254.7	542.9	962.5	1514.5	2183.5	2953.9	3827.8
-25°	0.0	20.5	32.5	88.8	240.0	510.5	906.5	1428.5	2067.4	2799.5	3636.7
-27.5°	0.0	20.0	32.0	84.5	223.7	474.9	845.0	1334.2	1940.2	2639.0	3446.3
-30°	0.0	19.6	31.5	79.7	206.1	436.2	778.3	1231.8	1814.9	2482.6	3240.9
-32.5°	0.0	19.1	31.0	74.6	187.1	394.5	706.4	1141.5	1688.2	2314.5	3020.2
-35°	0.0	18.5	30.4	69.1	166.7	349.9	645.9	1051.4	1552.9	2135.0	2784.8
-37.5°	0.0	17.9	29.7	63.2	145.1	309.5	588.8	955.7	1409.2	1944.6	2558.0
-40°	0.0	17.3	29.1	57.0	122.1	280.8	528.4	854.6	1257.5	1765.0	2333.7
-42.5°	0.0	16.7	28.4	50.5	105.8	250.6	465.0	748.4	1123.5	1585.1	2098.5
-45°	0.0	16.0	27.6	43.7	96.6	219.0	398.5	651.2	996.1	1397.1	1858.1
-47.5°	0.0	15.3	26.9	36.6	87.1	186.0	329.2	570.2	863.4	1202.4	1640.2
-50°	0.0	14.5	26.1	33.9	77.2	151.6	283.5	486.0	725.6	1047.2	1414.2
-52.5°	0.0	13.8	25.2	32.6	67.0	116.1	240.8	398.9	613.4	886.7	1186.8
-55°	0.0	13.0	24.4	31.4	56.4	99.0	196.7	313.2	510.6	721.3	1003.0
-57.5°	0.0	12.1	23.5	30.0	45.4	85.3	151.3	260.3	404.9	591.2	814.3
-60°	0.0	11.3	22.6	28.7	34.7	71.3	108.2	205.9	306.1	469.4	639.9
-62.5°	0.0	10.4	20.9	27.3	32.8	57.0	90.9	150.3	242.6	344.9	501.8
-65°	0.0	9.5	19.1	25.8	30.9	42.3	73.3	104.1	177.8	261.0	361.0
-67.5°	0.0	8.6	17.3	24.4	29.0	33.6	55.4	83.2	111.8	187.0	261.0
-70°	0.0	7.7	15.4	22.9	27.0	31.1	37.2	62.0	86.5	111.8	177.8
-72.5°	0.0	6.8	13.6	20.3	25.0	28.6	32.2	40.5	62.0	83.2	104.1
-75°	0.0	5.8	11.7	17.5	23.0	26.1	29.1	32.2	37.2	55.4	73.3
-77.5°	0.0	4.9	9.8	14.6	19.5	23.5	26.1	28.6	31.1	33.6	42.3
-80°	0.0	3.9	7.8	11.7	15.6	19.5	23.0	25.0	27.0	29.0	30.9
-82.5°	0.0	2.9	5.9	8.8	11.7	14.6	17.5	20.3	22.9	24.4	25.8
-85°	0.0	2.0	3.9	5.9	7.8	9.8	11.7	13.6	15.4	17.3	19.1
-87.5°	0.0	1.0	2.0	2.9	3.9	4.9	5.8	6.8	7.7	8.6	9.5
-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: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-100R-40-80-7F-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°	10.4	11.3	12.1	13.0	13.8	14.5	15.3	16.0	16.7	17.3	17.9
85°	20.9	22.6	23.5	24.4	25.2	26.1	26.9	27.6	28.4	29.1	29.7
82.5°	27.3	28.7	30.0	31.4	32.6	33.9	36.6	43.7	50.5	57.0	63.2
80°	32.8	34.7	45.4	56.4	67.0	77.2	87.1	96.6	105.8	122.1	145.1
77.5°	57.0	71.3	85.3	99.0	116.1	151.6	186.0	219.0	250.6	280.8	309.5
75°	90.9	108.2	151.3	196.7	240.8	283.5	329.2	398.5	465.0	528.4	588.8
72.5°	150.3	205.9	260.3	313.2	398.9	486.0	570.2	651.2	748.4	854.6	955.7
70°	242.6	306.1	404.9	510.6	613.4	725.6	863.4	996.1	1123.5	1257.5	1409.2
67.5°	344.9	469.4	591.2	721.3	886.7	1047.2	1202.4	1397.1	1585.1	1765.0	1944.6
65°	501.8	639.9	814.3	1003.0	1186.8	1414.2	1640.2	1858.1	2098.5	2333.7	2558.0
62.5°	656.2	861.0	1073.3	1303.7	1568.0	1824.8	2105.6	2387.3	2658.4	2957.8	3248.6
60°	861.0	1096.8	1365.4	1660.9	1959.5	2288.2	2606.9	2953.9	3302.0	3636.7	3988.7
57.5°	1073.3	1365.4	1692.0	2032.8	2398.6	2766.0	3171.5	3563.9	3974.8	4375.8	4775.3
55°	1303.7	1660.9	2032.8	2435.5	2853.2	3303.1	3752.0	4219.4	4671.8	5178.0	5662.7
52.5°	1568.0	1959.5	2398.6	2853.2	3347.2	3849.9	4367.4	4903.7	5469.7	6039.6	6652.8
50°	1824.8	2288.2	2766.0	3303.1	3849.9	4417.0	5020.3	5646.3	6318.2	7003.9	7752.6
47.5°	2105.6	2606.9	3171.5	3752.0	4367.4	5020.3	5705.4	6458.6	7216.7	8108.1	8982.2
45°	2387.3	2953.9	3563.9	4219.4	4903.7	5646.3	6458.6	7288.0	8287.3	9294.5	10405.3
42.5°	2658.4	3302.0	3974.8	4671.8	5469.7	6318.2	7216.7	8287.3	9403.2	10626.0	11944.3
40°	2957.8	3636.7	4375.8	5178.0	6039.6	7003.9	8108.1	9294.5	10626.0	12080.1	13589.4
37.5°	3248.6	3988.7	4775.3	5662.7	6652.8	7752.6	8982.2	10405.3	11944.3	13589.4	15465.6
35°	3524.7	4323.2	5201.0	6168.5	7238.1	8533.5	9967.5	11539.2	13312.9	15298.0	17414.6
32.5°	3801.7	4639.5	5603.9	6682.0	7915.1	9320.0	10917.4	12765.0	14798.3	17005.9	19509.3
30°	4071.7	4982.0	6002.1	7165.6	8564.8	10155.6	11955.5	13976.1	16271.3	18884.2	21769.4
27.5°	4323.2	5305.1	6417.1	7696.9	9197.7	10939.1	12973.5	15272.0	17856.9	20748.3	24050.1
25°	4555.6	5603.9	6801.2	8216.7	9870.5	11776.3	13969.2	16481.3	19409.4	22750.5	26389.0
22.5°	4785.4	5878.4	7153.2	8693.5	10488.6	12584.4	15004.3	17782.1	20972.0	24618.7	28616.5
20°	5009.3	6168.5	7516.1	9141.1	11049.6	13318.8	15946.6	18999.1	22551.3	26519.3	30825.9
17.5°	5208.6	6426.9	7868.5	9600.8	11635.6	14033.7	16818.0	20092.1	23972.7	28233.9	32900.9
15°	5382.7	6652.8	8176.8	10003.3	12165.5	14717.1	17705.1	21222.0	25308.7	29802.5	34748.2
12.5°	5530.9	6845.4	8439.9	10347.0	12618.4	15301.9	18465.2	22214.9	26512.1	31266.0	36562.1
10°	5652.9	7003.9	8656.5	10630.4	12992.1	15784.9	19093.7	23037.1	27510.2	32482.1	38072.7
7.5°	5748.3	7127.9	8826.0	10852.1	13284.7	16163.4	19586.8	23682.8	28295.1	33440.1	39264.8
5°	5816.6	7216.7	8947.6	11011.3	13494.8	16435.4	19941.4	24147.5	28860.5	34131.0	40125.9
2.5°	5857.7	7270.2	9020.7	11107.0	13621.4	16599.2	20155.0	24427.8	29201.7	34548.2	40646.5
0°	5871.4	7288.0	9045.1	11139.0	13663.6	16653.9	20226.4	24521.4	29315.8	34687.8	40820.7
-2.5°	5857.7	7270.2	9020.7	11107.0	13621.4	16599.2	20155.0	24427.8	29201.7	34548.2	40646.5
-5°	5816.6	7216.7	8947.6	11011.3	13494.8	16435.4	19941.4	24147.5	28860.5	34131.0	40125.9
-7.5°	5748.3	7127.9	8826.0	10852.1	13284.7	16163.4	19586.8	23682.8	28295.1	33440.1	39264.8
-10°	5652.9	7003.9	8656.5	10630.4	12992.1	15784.9	19093.7	23037.1	27510.2	32482.1	38072.7
-12.5°	5530.9	6845.4	8439.9	10347.0	12618.4	15301.9	18465.2	22214.9	26512.1	31266.0	36562.1
-15°	5382.7	6652.8	8176.8	10003.3	12165.5	14717.1	17705.1	21222.0	25308.7	29802.5	34748.2
-17.5°	5208.6	6426.9	7868.5	9600.8	11635.6	14033.7	16818.0	20092.1	23972.7	28233.9	32900.9
-20°	5009.3	6168.5	7516.1	9141.1	11049.6	13318.8	15946.6	18999.1	22551.3	26519.3	30825.9



REPORT NUMBER: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	4785.4	5878.4	7153.2	8693.5	10488.6	12584.4	15004.3	17782.1	20972.0	24618.7	28616.5
-25°	4555.6	5603.9	6801.2	8216.7	9870.5	11776.3	13969.2	16481.3	19409.4	22750.5	26389.0
-27.5°	4323.2	5305.1	6417.1	7696.9	9197.7	10939.1	12973.5	15272.0	17856.9	20748.3	24050.1
-30°	4071.7	4982.0	6002.1	7165.6	8564.8	10155.6	11955.5	13976.1	16271.3	18884.2	21769.4
-32.5°	3801.7	4639.5	5603.9	6682.0	7915.1	9320.0	10917.4	12765.0	14798.3	17005.9	19509.3
-35°	3524.7	4323.2	5201.0	6168.5	7238.1	8533.5	9967.5	11539.2	13312.9	15298.0	17414.6
-37.5°	3248.6	3988.7	4775.3	5662.7	6652.8	7752.6	8982.2	10405.3	11944.3	13589.4	15465.6
-40°	2957.8	3636.7	4375.8	5178.0	6039.6	7003.9	8108.1	9294.5	10626.0	12080.1	13589.4
-42.5°	2658.4	3302.0	3974.8	4671.8	5469.7	6318.2	7216.7	8287.3	9403.2	10626.0	11944.3
-45°	2387.3	2953.9	3563.9	4219.4	4903.7	5646.3	6458.6	7288.0	8287.3	9294.5	10405.3
-47.5°	2105.6	2606.9	3171.5	3752.0	4367.4	5020.3	5705.4	6458.6	7216.7	8108.1	8982.2
-50°	1824.8	2288.2	2766.0	3303.1	3849.9	4417.0	5020.3	5646.3	6318.2	7003.9	7752.6
-52.5°	1568.0	1959.5	2398.6	2853.2	3347.2	3849.9	4367.4	4903.7	5469.7	6039.6	6652.8
-55°	1303.7	1660.9	2032.8	2435.5	2853.2	3303.1	3752.0	4219.4	4671.8	5178.0	5662.7
-57.5°	1073.3	1365.4	1692.0	2032.8	2398.6	2766.0	3171.5	3563.9	3974.8	4375.8	4775.3
-60°	861.0	1096.8	1365.4	1660.9	1959.5	2288.2	2606.9	2953.9	3302.0	3636.7	3988.7
-62.5°	656.2	861.0	1073.3	1303.7	1568.0	1824.8	2105.6	2387.3	2658.4	2957.8	3248.6
-65°	501.8	639.9	814.3	1003.0	1186.8	1414.2	1640.2	1858.1	2098.5	2333.7	2558.0
-67.5°	344.9	469.4	591.2	721.3	886.7	1047.2	1202.4	1397.1	1585.1	1765.0	1944.6
-70°	242.6	306.1	404.9	510.6	613.4	725.6	863.4	996.1	1123.5	1257.5	1409.2
-72.5°	150.3	205.9	260.3	313.2	398.9	486.0	570.2	651.2	748.4	854.6	955.7
-75°	90.9	108.2	151.3	196.7	240.8	283.5	329.2	398.5	465.0	528.4	588.8
-77.5°	57.0	71.3	85.3	99.0	116.1	151.6	186.0	219.0	250.6	280.8	309.5
-80°	32.8	34.7	45.4	56.4	67.0	77.2	87.1	96.6	105.8	122.1	145.1
-82.5°	27.3	28.7	30.0	31.4	32.6	33.9	36.6	43.7	50.5	57.0	63.2
-85°	20.9	22.6	23.5	24.4	25.2	26.1	26.9	27.6	28.4	29.1	29.7
-87.5°	10.4	11.3	12.1	13.0	13.8	14.5	15.3	16.0	16.7	17.3	17.9
-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: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-100R-40-80-7F-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°	18.5	19.1	19.6	20.0	20.5	20.9	21.2	21.6	21.8	22.1	22.3
85°	30.4	31.0	31.5	32.0	32.5	32.9	33.3	33.7	34.0	34.2	34.4
82.5°	69.1	74.6	79.7	84.5	88.8	92.8	96.4	99.6	102.4	104.7	106.6
80°	166.7	187.1	206.1	223.7	240.0	254.7	268.1	279.9	290.2	298.9	306.1
77.5°	349.9	394.5	436.2	474.9	510.5	542.9	572.2	598.1	620.7	639.9	655.6
75°	645.9	706.4	778.3	845.0	906.5	962.5	1013.0	1057.7	1096.8	1130.0	1157.2
72.5°	1051.4	1141.5	1231.8	1334.2	1428.5	1514.5	1592.1	1660.9	1720.9	1772.0	1813.9
70°	1552.9	1688.2	1814.9	1940.2	2067.4	2183.5	2288.2	2381.2	2462.3	2531.3	2588.0
67.5°	2135.0	2314.5	2482.6	2639.0	2799.5	2953.9	3093.3	3217.2	3325.2	3417.2	3492.8
65°	2784.8	3020.2	3240.9	3446.3	3636.7	3827.8	4000.4	4153.9	4287.9	4402.0	4495.8
62.5°	3524.7	3801.7	4071.7	4323.2	4555.6	4785.4	5009.3	5208.6	5382.7	5530.9	5652.9
60°	4323.2	4639.5	4982.0	5305.1	5603.9	5878.4	6168.5	6426.9	6652.8	6845.4	7003.9
57.5°	5201.0	5603.9	6002.1	6417.1	6801.2	7153.2	7516.1	7868.5	8176.8	8439.9	8656.5
55°	6168.5	6682.0	7165.6	7696.9	8216.7	8693.5	9141.1	9600.8	10003.3	10347.0	10630.4
52.5°	7238.1	7915.1	8564.8	9197.7	9870.5	10488.6	11049.6	11635.6	12165.5	12618.4	12992.1
50°	8533.5	9320.0	10155.6	10939.1	11776.3	12584.4	13318.8	14033.7	14717.1	15301.9	15784.9
47.5°	9967.5	10917.4	11955.5	12973.5	13969.2	15004.3	15946.6	16818.0	17705.1	18465.2	19093.7
45°	11539.2	12765.0	13976.1	15272.0	16481.3	17782.1	18999.1	20092.1	21222.0	22214.9	23037.1
42.5°	13312.9	14798.3	16271.3	17856.9	19409.4	20972.0	22551.3	23972.7	25308.7	26512.1	27510.2
40°	15298.0	17005.9	18884.2	20748.3	22750.5	24618.7	26519.3	28233.9	29802.5	31266.0	32482.1
37.5°	17414.6	19509.3	21769.4	24050.1	26389.0	28616.5	30825.9	32900.9	34748.2	36562.1	38072.7
35°	19719.2	22285.7	24879.3	27593.3	30254.0	32931.6	35501.1	38058.9	40333.9	42445.2	44246.7
32.5°	22285.7	25176.4	28203.1	31305.2	34368.0	37598.9	40630.5	43636.2	46335.6	48800.7	50969.8
30°	24879.3	28203.1	31658.8	35154.4	38882.9	42539.7	46108.7	49564.5	52795.8	55665.4	58212.5
27.5°	27593.3	31305.2	35154.4	39315.4	43519.2	47636.4	51869.9	55822.7	59590.2	62894.9	65929.3
25°	30254.0	34368.0	38882.9	43519.2	48201.7	53045.0	57787.7	62304.0	66702.7	70631.1	74044.9
22.5°	32931.6	37598.9	42539.7	47636.4	53045.0	58452.1	63760.9	69065.2	73981.5	78421.7	82259.0
20°	35501.1	40630.5	46108.7	51869.9	57787.7	63760.9	69866.4	75720.0	81172.3	86153.1	90431.4
17.5°	38058.9	43636.2	49564.5	55822.7	62304.0	69065.2	75720.0	82124.3	88172.0	93538.7	98192.1
15°	40333.9	46335.6	52795.8	59590.2	66702.7	73981.5	81172.3	88172.0	94604.5	100448.3	105584.5
12.5°	42445.2	48800.7	55665.4	62894.9	70631.1	78421.7	86153.1	93538.7	100448.3	106832.0	112221.9
10°	44246.7	50969.8	58212.5	65929.3	74044.9	82259.0	90431.4	98192.1	105584.5	112221.9	118030.2
7.5°	45671.6	52690.4	60239.6	68355.5	76811.4	85398.7	93841.6	101986.9	109704.2	116703.3	122583.7
5°	46702.7	53938.1	61713.8	70126.0	78839.2	87713.4	96375.2	104833.4	112757.6	119931.9	125926.4
2.5°	47326.9	54694.6	62609.2	71204.1	80077.9	89133.5	97938.6	106604.2	114680.0	121886.8	127931.4
0°	47535.9	54948.1	62909.6	71566.2	80494.7	89612.3	98467.4	107205.9	115337.7	122523.7	128623.2
-2.5°	47326.9	54694.6	62609.2	71204.1	80077.9	89133.5	97938.6	106604.2	114680.0	121886.8	127931.4
-5°	46702.7	53938.1	61713.8	70126.0	78839.2	87713.4	96375.2	104833.4	112757.6	119931.9	125926.4
-7.5°	45671.6	52690.4	60239.6	68355.5	76811.4	85398.7	93841.6	101986.9	109704.2	116703.3	122583.7
-10°	44246.7	50969.8	58212.5	65929.3	74044.9	82259.0	90431.4	98192.1	105584.5	112221.9	118030.2
-12.5°	42445.2	48800.7	55665.4	62894.9	70631.1	78421.7	86153.1	93538.7	100448.3	106832.0	112221.9
-15°	40333.9	46335.6	52795.8	59590.2	66702.7	73981.5	81172.3	88172.0	94604.5	100448.3	105584.5
-17.5°	38058.9	43636.2	49564.5	55822.7	62304.0	69065.2	75720.0	82124.3	88172.0	93538.7	98192.1
-20°	35501.1	40630.5	46108.7	51869.9	57787.7	63760.9	69866.4	75720.0	81172.3	86153.1	90431.4



REPORT NUMBER: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	32931.6	37598.9	42539.7	47636.4	53045.0	58452.1	63760.9	69065.2	73981.5	78421.7	82259.0
-25°	30254.0	34368.0	38882.9	43519.2	48201.7	53045.0	57787.7	62304.0	66702.7	70631.1	74044.9
-27.5°	27593.3	31305.2	35154.4	39315.4	43519.2	47636.4	51869.9	55822.7	59590.2	62894.9	65929.3
-30°	24879.3	28203.1	31658.8	35154.4	38882.9	42539.7	46108.7	49564.5	52795.8	55665.4	58212.5
-32.5°	22285.7	25176.4	28203.1	31305.2	34368.0	37598.9	40630.5	43636.2	46335.6	48800.7	50969.8
-35°	19719.2	22285.7	24879.3	27593.3	30254.0	32931.6	35501.1	38058.9	40333.9	42445.2	44246.7
-37.5°	17414.6	19509.3	21769.4	24050.1	26389.0	28616.5	30825.9	32900.9	34748.2	36562.1	38072.7
-40°	15298.0	17005.9	18884.2	20748.3	22750.5	24618.7	26519.3	28233.9	29802.5	31266.0	32482.1
-42.5°	13312.9	14798.3	16271.3	17856.9	19409.4	20972.0	22551.3	23972.7	25308.7	26512.1	27510.2
-45°	11539.2	12765.0	13976.1	15272.0	16481.3	17782.1	18999.1	20092.1	21222.0	22214.9	23037.1
-47.5°	9967.5	10917.4	11955.5	12973.5	13969.2	15004.3	15946.6	16818.0	17705.1	18465.2	19093.7
-50°	8533.5	9320.0	10155.6	10939.1	11776.3	12584.4	13318.8	14033.7	14717.1	15301.9	15784.9
-52.5°	7238.1	7915.1	8564.8	9197.7	9870.5	10488.6	11049.6	11635.6	12165.5	12618.4	12992.1
-55°	6168.5	6682.0	7165.6	7696.9	8216.7	8693.5	9141.1	9600.8	10003.3	10347.0	10630.4
-57.5°	5201.0	5603.9	6002.1	6417.1	6801.2	7153.2	7516.1	7868.5	8176.8	8439.9	8656.5
-60°	4323.2	4639.5	4982.0	5305.1	5603.9	5878.4	6168.5	6426.9	6652.8	6845.4	7003.9
-62.5°	3524.7	3801.7	4071.7	4323.2	4555.6	4785.4	5009.3	5208.6	5382.7	5530.9	5652.9
-65°	2784.8	3020.2	3240.9	3446.3	3636.7	3827.8	4000.4	4153.9	4287.9	4402.0	4495.8
-67.5°	2135.0	2314.5	2482.6	2639.0	2799.5	2953.9	3093.3	3217.2	3325.2	3417.2	3492.8
-70°	1552.9	1688.2	1814.9	1940.2	2067.4	2183.5	2288.2	2381.2	2462.3	2531.3	2588.0
-72.5°	1051.4	1141.5	1231.8	1334.2	1428.5	1514.5	1592.1	1660.9	1720.9	1772.0	1813.9
-75°	645.9	706.4	778.3	845.0	906.5	962.5	1013.0	1057.7	1096.8	1130.0	1157.2
-77.5°	349.9	394.5	436.2	474.9	510.5	542.9	572.2	598.1	620.7	639.9	655.6
-80°	166.7	187.1	206.1	223.7	240.0	254.7	268.1	279.9	290.2	298.9	306.1
-82.5°	69.1	74.6	79.7	84.5	88.8	92.8	96.4	99.6	102.4	104.7	106.6
-85°	30.4	31.0	31.5	32.0	32.5	32.9	33.3	33.7	34.0	34.2	34.4
-87.5°	18.5	19.1	19.6	20.0	20.5	20.9	21.2	21.6	21.8	22.1	22.3
-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: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-100R-40-80-7F-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°	22.4	22.5	22.6	22.6	22.6	22.5	22.4	22.3	22.1	21.8	21.6
85°	34.6	34.7	34.8	34.8	34.8	34.7	34.6	34.4	34.2	34.0	33.7
82.5°	108.2	109.2	109.9	110.1	109.9	109.2	108.2	106.6	104.7	102.4	99.6
80°	311.7	315.7	318.1	318.9	318.1	315.7	311.7	306.1	298.9	290.2	279.9
77.5°	667.9	676.7	682.0	683.8	682.0	676.7	667.9	655.6	639.9	620.7	598.1
75°	1178.5	1193.7	1202.8	1205.9	1202.8	1193.7	1178.5	1157.2	1130.0	1096.8	1057.7
72.5°	1846.6	1870.0	1884.1	1888.8	1884.1	1870.0	1846.6	1813.9	1772.0	1720.9	1660.9
70°	2632.2	2663.9	2682.9	2689.3	2682.9	2663.9	2632.2	2588.0	2531.3	2462.3	2381.2
67.5°	3551.8	3594.1	3619.5	3628.0	3619.5	3594.1	3551.8	3492.8	3417.2	3325.2	3217.2
65°	4569.1	4621.6	4653.2	4663.7	4653.2	4621.6	4569.1	4495.8	4402.0	4287.9	4153.9
62.5°	5748.3	5816.6	5857.7	5871.4	5857.7	5816.6	5748.3	5652.9	5530.9	5382.7	5208.6
60°	7127.9	7216.7	7270.2	7288.0	7270.2	7216.7	7127.9	7003.9	6845.4	6652.8	6426.9
57.5°	8826.0	8947.6	9020.7	9045.1	9020.7	8947.6	8826.0	8656.5	8439.9	8176.8	7868.5
55°	10852.1	11011.3	11107.0	11139.0	11107.0	11011.3	10852.1	10630.4	10347.0	10003.3	9600.8
52.5°	13284.7	13494.8	13621.4	13663.6	13621.4	13494.8	13284.7	12992.1	12618.4	12165.5	11635.6
50°	16163.4	16435.4	16599.2	16653.9	16599.2	16435.4	16163.4	15784.9	15301.9	14717.1	14033.7
47.5°	19586.8	19941.4	20155.0	20226.4	20155.0	19941.4	19586.8	19093.7	18465.2	17705.1	16818.0
45°	23682.8	24147.5	24427.8	24521.4	24427.8	24147.5	23682.8	23037.1	22214.9	21222.0	20092.1
42.5°	28295.1	28860.5	29201.7	29315.8	29201.7	28860.5	28295.1	27510.2	26512.1	25308.7	23972.7
40°	33440.1	34131.0	34548.2	34687.8	34548.2	34131.0	33440.1	32482.1	31266.0	29802.5	28233.9
37.5°	39264.8	40125.9	40646.5	40820.7	40646.5	40125.9	39264.8	38072.7	36562.1	34748.2	32900.9
35°	45671.6	46702.7	47326.9	47535.9	47326.9	46702.7	45671.6	44246.7	42445.2	40333.9	38058.9
32.5°	52690.4	53938.1	54694.6	54948.1	54694.6	53938.1	52690.4	50969.8	48800.7	46335.6	43636.2
30°	60239.6	61713.8	62609.2	62909.6	62609.2	61713.8	60239.6	58212.5	55665.4	52795.8	49564.5
27.5°	68355.5	70126.0	71204.1	71566.2	71204.1	70126.0	68355.5	65929.3	62894.9	59590.2	55822.7
25°	76811.4	78839.2	80077.9	80494.7	80077.9	78839.2	76811.4	74044.9	70631.1	66702.7	62304.0
22.5°	85398.7	87713.4	89133.5	89612.3	89133.5	87713.4	85398.7	82259.0	78421.7	73981.5	69065.2
20°	93841.6	96375.2	97938.6	98467.4	97938.6	96375.2	93841.6	90431.4	86153.1	81172.3	75720.0
17.5°	101986.9	104833.4	106604.2	107205.9	106604.2	104833.4	101986.9	98192.1	93538.7	88172.0	82124.3
15°	109704.2	112757.6	114680.0	115337.7	114680.0	112757.6	109704.2	105584.5	100448.3	94604.5	88172.0
12.5°	116703.3	119931.9	121886.8	122523.7	121886.8	119931.9	116703.3	112221.9	106832.0	100448.3	93538.7
10°	122583.7	125926.4	127931.4	128623.2	127931.4	125926.4	122583.7	118030.2	112221.9	105584.5	98192.1
7.5°	127280.3	130729.9	132769.7	133461.9	132769.7	130729.9	127280.3	122583.7	116703.3	109704.2	101986.9
5°	130729.9	134205.5	136333.7	137038.1	136333.7	134205.5	130729.9	125926.4	119931.9	112757.6	104833.4
2.5°	132769.7	136333.7	138455.8	139169.2	138455.8	136333.7	132769.7	127931.4	121886.8	114680.0	106604.2
0°	133461.9	137038.1	139169.2	139916.5	139169.2	137038.1	133461.9	128623.2	122523.7	115337.7	107205.9
-2.5°	132769.7	136333.7	138455.8	139169.2	138455.8	136333.7	132769.7	127931.4	121886.8	114680.0	106604.2
-5°	130729.9	134205.5	136333.7	137038.1	136333.7	134205.5	130729.9	125926.4	119931.9	112757.6	104833.4
-7.5°	127280.3	130729.9	132769.7	133461.9	132769.7	130729.9	127280.3	122583.7	116703.3	109704.2	101986.9
-10°	122583.7	125926.4	127931.4	128623.2	127931.4	125926.4	122583.7	118030.2	112221.9	105584.5	98192.1
-12.5°	116703.3	119931.9	121886.8	122523.7	121886.8	119931.9	116703.3	112221.9	106832.0	100448.3	93538.7
-15°	109704.2	112757.6	114680.0	115337.7	114680.0	112757.6	109704.2	105584.5	100448.3	94604.5	88172.0
-17.5°	101986.9	104833.4	106604.2	107205.9	106604.2	104833.4	101986.9	98192.1	93538.7	88172.0	82124.3
-20°	93841.6	96375.2	97938.6	98467.4	97938.6	96375.2	93841.6	90431.4	86153.1	81172.3	75720.0



REPORT NUMBER: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	85398.7	87713.4	89133.5	89612.3	89133.5	87713.4	85398.7	82259.0	78421.7	73981.5	69065.2
-25°	76811.4	78839.2	80077.9	80494.7	80077.9	78839.2	76811.4	74044.9	70631.1	66702.7	62304.0
-27.5°	68355.5	70126.0	71204.1	71566.2	71204.1	70126.0	68355.5	65929.3	62894.9	59590.2	55822.7
-30°	60239.6	61713.8	62609.2	62909.6	62609.2	61713.8	60239.6	58212.5	55665.4	52795.8	49564.5
-32.5°	52690.4	53938.1	54694.6	54948.1	54694.6	53938.1	52690.4	50969.8	48800.7	46335.6	43636.2
-35°	45671.6	46702.7	47326.9	47535.9	47326.9	46702.7	45671.6	44246.7	42445.2	40333.9	38058.9
-37.5°	39264.8	40125.9	40646.5	40820.7	40646.5	40125.9	39264.8	38072.7	36562.1	34748.2	32900.9
-40°	33440.1	34131.0	34548.2	34687.8	34548.2	34131.0	33440.1	32482.1	31266.0	29802.5	28233.9
-42.5°	28295.1	28860.5	29201.7	29315.8	29201.7	28860.5	28295.1	27510.2	26512.1	25308.7	23972.7
-45°	23682.8	24147.5	24427.8	24521.4	24427.8	24147.5	23682.8	23037.1	22214.9	21222.0	20092.1
-47.5°	19586.8	19941.4	20155.0	20226.4	20155.0	19941.4	19586.8	19093.7	18465.2	17705.1	16818.0
-50°	16163.4	16435.4	16599.2	16653.9	16599.2	16435.4	16163.4	15784.9	15301.9	14717.1	14033.7
-52.5°	13284.7	13494.8	13621.4	13663.6	13621.4	13494.8	13284.7	12992.1	12618.4	12165.5	11635.6
-55°	10852.1	11011.3	11107.0	11139.0	11107.0	11011.3	10852.1	10630.4	10347.0	10003.3	9600.8
-57.5°	8826.0	8947.6	9020.7	9045.1	9020.7	8947.6	8826.0	8656.5	8439.9	8176.8	7868.5
-60°	7127.9	7216.7	7270.2	7288.0	7270.2	7216.7	7127.9	7003.9	6845.4	6652.8	6426.9
-62.5°	5748.3	5816.6	5857.7	5871.4	5857.7	5816.6	5748.3	5652.9	5530.9	5382.7	5208.6
-65°	4569.1	4621.6	4653.2	4663.7	4653.2	4621.6	4569.1	4495.8	4402.0	4287.9	4153.9
-67.5°	3551.8	3594.1	3619.5	3628.0	3619.5	3594.1	3551.8	3492.8	3417.2	3325.2	3217.2
-70°	2632.2	2663.9	2682.9	2689.3	2682.9	2663.9	2632.2	2588.0	2531.3	2462.3	2381.2
-72.5°	1846.6	1870.0	1884.1	1888.8	1884.1	1870.0	1846.6	1813.9	1772.0	1720.9	1660.9
-75°	1178.5	1193.7	1202.8	1205.9	1202.8	1193.7	1178.5	1157.2	1130.0	1096.8	1057.7
-77.5°	667.9	676.7	682.0	683.8	682.0	676.7	667.9	655.6	639.9	620.7	598.1
-80°	311.7	315.7	318.1	318.9	318.1	315.7	311.7	306.1	298.9	290.2	279.9
-82.5°	108.2	109.2	109.9	110.1	109.9	109.2	108.2	106.6	104.7	102.4	99.6
-85°	34.6	34.7	34.8	34.8	34.8	34.7	34.6	34.4	34.2	34.0	33.7
-87.5°	22.4	22.5	22.6	22.6	22.6	22.5	22.4	22.3	22.1	21.8	21.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-100R-40-80-7F-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°	21.2	20.9	20.5	20.0	19.6	19.1	18.5	17.9	17.3	16.7	16.0
85°	33.3	32.9	32.5	32.0	31.5	31.0	30.4	29.7	29.1	28.4	27.6
82.5°	96.4	92.8	88.8	84.5	79.7	74.6	69.1	63.2	57.0	50.5	43.7
80°	268.1	254.7	240.0	223.7	206.1	187.1	166.7	145.1	122.1	105.8	96.6
77.5°	572.2	542.9	510.5	474.9	436.2	394.5	349.9	309.5	280.8	250.6	219.0
75°	1013.0	962.5	906.5	845.0	778.3	706.4	645.9	588.8	528.4	465.0	398.5
72.5°	1592.1	1514.5	1428.5	1334.2	1231.8	1141.5	1051.4	955.7	854.6	748.4	651.2
70°	2288.2	2183.5	2067.4	1940.2	1814.9	1688.2	1552.9	1409.2	1257.5	1123.5	996.1
67.5°	3093.3	2953.9	2799.5	2639.0	2482.6	2314.5	2135.0	1944.6	1765.0	1585.1	1397.1
65°	4000.4	3827.8	3636.7	3446.3	3240.9	3020.2	2784.8	2558.0	2333.7	2098.5	1858.1
62.5°	5009.3	4785.4	4555.6	4323.2	4071.7	3801.7	3524.7	3248.6	2957.8	2658.4	2387.3
60°	6168.5	5878.4	5603.9	5305.1	4982.0	4639.5	4323.2	3988.7	3636.7	3302.0	2953.9
57.5°	7516.1	7153.2	6801.2	6417.1	6002.1	5603.9	5201.0	4775.3	4375.8	3974.8	3563.9
55°	9141.1	8693.5	8216.7	7696.9	7165.6	6682.0	6168.5	5662.7	5178.0	4671.8	4219.4
52.5°	11049.6	10488.6	9870.5	9197.7	8564.8	7915.1	7238.1	6652.8	6039.6	5469.7	4903.7
50°	13318.8	12584.4	11776.3	10939.1	10155.6	9320.0	8533.5	7752.6	7003.9	6318.2	5646.3
47.5°	15946.6	15004.3	13969.2	12973.5	11955.5	10917.4	9967.5	8982.2	8108.1	7216.7	6458.6
45°	18999.1	17782.1	16481.3	15272.0	13976.1	12765.0	11539.2	10405.3	9294.5	8287.3	7288.0
42.5°	22551.3	20972.0	19409.4	17856.9	16271.3	14798.3	13312.9	11944.3	10626.0	9403.2	8287.3
40°	26519.3	24618.7	22750.5	20748.3	18884.2	17005.9	15298.0	13589.4	12080.1	10626.0	9294.5
37.5°	30825.9	28616.5	26389.0	24050.1	21769.4	19509.3	17414.6	15465.6	13589.4	11944.3	10405.3
35°	35501.1	32931.6	30254.0	27593.3	24879.3	22285.7	19719.2	17414.6	15298.0	13312.9	11539.2
32.5°	40630.5	37598.9	34368.0	31305.2	28203.1	25176.4	22285.7	19509.3	17005.9	14798.3	12765.0
30°	46108.7	42539.7	38882.9	35154.4	31658.8	28203.1	24879.3	21769.4	18884.2	16271.3	13976.1
27.5°	51869.9	47636.4	43519.2	39315.4	35154.4	31305.2	27593.3	24050.1	20748.3	17856.9	15272.0
25°	57787.7	53045.0	48201.7	43519.2	38882.9	34368.0	30254.0	26389.0	22750.5	19409.4	16481.3
22.5°	63760.9	58452.1	53045.0	47636.4	42539.7	37598.9	32931.6	28616.5	24618.7	20972.0	17782.1
20°	69866.4	63760.9	57787.7	51869.9	46108.7	40630.5	35501.1	30825.9	26519.3	22551.3	18999.1
17.5°	75720.0	69065.2	62304.0	55822.7	49564.5	43636.2	38058.9	32900.9	28233.9	23972.7	20092.1
15°	81172.3	73981.5	66702.7	59590.2	52795.8	46335.6	40333.9	34748.2	29802.5	25308.7	21222.0
12.5°	86153.1	78421.7	70631.1	62894.9	55665.4	48800.7	42445.2	36562.1	31266.0	26512.1	22214.9
10°	90431.4	82259.0	74044.9	65929.3	58212.5	50969.8	44246.7	38072.7	32482.1	27510.2	23037.1
7.5°	93841.6	85398.7	76811.4	68355.5	60239.6	52690.4	45671.6	39264.8	33440.1	28295.1	23682.8
5°	96375.2	87713.4	78839.2	70126.0	61713.8	53938.1	46702.7	40125.9	34131.0	28860.5	24147.5
2.5°	97938.6	89133.5	80077.9	71204.1	62609.2	54694.6	47326.9	40646.5	34548.2	29201.7	24427.8
0°	98467.4	89612.3	80494.7	71566.2	62909.6	54948.1	47535.9	40820.7	34687.8	29315.8	24521.4
-2.5°	97938.6	89133.5	80077.9	71204.1	62609.2	54694.6	47326.9	40646.5	34548.2	29201.7	24427.8
-5°	96375.2	87713.4	78839.2	70126.0	61713.8	53938.1	46702.7	40125.9	34131.0	28860.5	24147.5
-7.5°	93841.6	85398.7	76811.4	68355.5	60239.6	52690.4	45671.6	39264.8	33440.1	28295.1	23682.8
-10°	90431.4	82259.0	74044.9	65929.3	58212.5	50969.8	44246.7	38072.7	32482.1	27510.2	23037.1
-12.5°	86153.1	78421.7	70631.1	62894.9	55665.4	48800.7	42445.2	36562.1	31266.0	26512.1	22214.9
-15°	81172.3	73981.5	66702.7	59590.2	52795.8	46335.6	40333.9	34748.2	29802.5	25308.7	21222.0
-17.5°	75720.0	69065.2	62304.0	55822.7	49564.5	43636.2	38058.9	32900.9	28233.9	23972.7	20092.1
-20°	69866.4	63760.9	57787.7	51869.9	46108.7	40630.5	35501.1	30825.9	26519.3	22551.3	18999.1



REPORT NUMBER: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	63760.9	58452.1	53045.0	47636.4	42539.7	37598.9	32931.6	28616.5	24618.7	20972.0	17782.1
-25°	57787.7	53045.0	48201.7	43519.2	38882.9	34368.0	30254.0	26389.0	22750.5	19409.4	16481.3
-27.5°	51869.9	47636.4	43519.2	39315.4	35154.4	31305.2	27593.3	24050.1	20748.3	17856.9	15272.0
-30°	46108.7	42539.7	38882.9	35154.4	31658.8	28203.1	24879.3	21769.4	18884.2	16271.3	13976.1
-32.5°	40630.5	37598.9	34368.0	31305.2	28203.1	25176.4	22285.7	19509.3	17005.9	14798.3	12765.0
-35°	35501.1	32931.6	30254.0	27593.3	24879.3	22285.7	19719.2	17414.6	15298.0	13312.9	11539.2
-37.5°	30825.9	28616.5	26389.0	24050.1	21769.4	19509.3	17414.6	15465.6	13589.4	11944.3	10405.3
-40°	26519.3	24618.7	22750.5	20748.3	18884.2	17005.9	15298.0	13589.4	12080.1	10626.0	9294.5
-42.5°	22551.3	20972.0	19409.4	17856.9	16271.3	14798.3	13312.9	11944.3	10626.0	9403.2	8287.3
-45°	18999.1	17782.1	16481.3	15272.0	13976.1	12765.0	11539.2	10405.3	9294.5	8287.3	7288.0
-47.5°	15946.6	15004.3	13969.2	12973.5	11955.5	10917.4	9967.5	8982.2	8108.1	7216.7	6458.6
-50°	13318.8	12584.4	11776.3	10939.1	10155.6	9320.0	8533.5	7752.6	7003.9	6318.2	5646.3
-52.5°	11049.6	10488.6	9870.5	9197.7	8564.8	7915.1	7238.1	6652.8	6039.6	5469.7	4903.7
-55°	9141.1	8693.5	8216.7	7696.9	7165.6	6682.0	6168.5	5662.7	5178.0	4671.8	4219.4
-57.5°	7516.1	7153.2	6801.2	6417.1	6002.1	5603.9	5201.0	4775.3	4375.8	3974.8	3563.9
-60°	6168.5	5878.4	5603.9	5305.1	4982.0	4639.5	4323.2	3988.7	3636.7	3302.0	2953.9
-62.5°	5009.3	4785.4	4555.6	4323.2	4071.7	3801.7	3524.7	3248.6	2957.8	2658.4	2387.3
-65°	4000.4	3827.8	3636.7	3446.3	3240.9	3020.2	2784.8	2558.0	2333.7	2098.5	1858.1
-67.5°	3093.3	2953.9	2799.5	2639.0	2482.6	2314.5	2135.0	1944.6	1765.0	1585.1	1397.1
-70°	2288.2	2183.5	2067.4	1940.2	1814.9	1688.2	1552.9	1409.2	1257.5	1123.5	996.1
-72.5°	1592.1	1514.5	1428.5	1334.2	1231.8	1141.5	1051.4	955.7	854.6	748.4	651.2
-75°	1013.0	962.5	906.5	845.0	778.3	706.4	645.9	588.8	528.4	465.0	398.5
-77.5°	572.2	542.9	510.5	474.9	436.2	394.5	349.9	309.5	280.8	250.6	219.0
-80°	268.1	254.7	240.0	223.7	206.1	187.1	166.7	145.1	122.1	105.8	96.6
-82.5°	96.4	92.8	88.8	84.5	79.7	74.6	69.1	63.2	57.0	50.5	43.7
-85°	33.3	32.9	32.5	32.0	31.5	31.0	30.4	29.7	29.1	28.4	27.6
-87.5°	21.2	20.9	20.5	20.0	19.6	19.1	18.5	17.9	17.3	16.7	16.0
-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: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-7F-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°	15.3	14.5	13.8	13.0	12.1	11.3	10.4	9.5	8.6	7.7	6.8
85°	26.9	26.1	25.2	24.4	23.5	22.6	20.9	19.1	17.3	15.4	13.6
82.5°	36.6	33.9	32.6	31.4	30.0	28.7	27.3	25.8	24.4	22.9	20.3
80°	87.1	77.2	67.0	56.4	45.4	34.7	32.8	30.9	29.0	27.0	25.0
77.5°	186.0	151.6	116.1	99.0	85.3	71.3	57.0	42.3	33.6	31.1	28.6
75°	329.2	283.5	240.8	196.7	151.3	108.2	90.9	73.3	55.4	37.2	32.2
72.5°	570.2	486.0	398.9	313.2	260.3	205.9	150.3	104.1	83.2	62.0	40.5
70°	863.4	725.6	613.4	510.6	404.9	306.1	242.6	177.8	111.8	86.5	62.0
67.5°	1202.4	1047.2	886.7	721.3	591.2	469.4	344.9	261.0	187.0	111.8	83.2
65°	1640.2	1414.2	1186.8	1003.0	814.3	639.9	501.8	361.0	261.0	177.8	104.1
62.5°	2105.6	1824.8	1568.0	1303.7	1073.3	861.0	656.2	501.8	344.9	242.6	150.3
60°	2606.9	2288.2	1959.5	1660.9	1365.4	1096.8	861.0	639.9	469.4	306.1	205.9
57.5°	3171.5	2766.0	2398.6	2032.8	1692.0	1365.4	1073.3	814.3	591.2	404.9	260.3
55°	3752.0	3303.1	2853.2	2435.5	2032.8	1660.9	1303.7	1003.0	721.3	510.6	313.2
52.5°	4367.4	3849.9	3347.2	2853.2	2398.6	1959.5	1568.0	1186.8	886.7	613.4	398.9
50°	5020.3	4417.0	3849.9	3303.1	2766.0	2288.2	1824.8	1414.2	1047.2	725.6	486.0
47.5°	5705.4	5020.3	4367.4	3752.0	3171.5	2606.9	2105.6	1640.2	1202.4	863.4	570.2
45°	6458.6	5646.3	4903.7	4219.4	3563.9	2953.9	2387.3	1858.1	1397.1	996.1	651.2
42.5°	7216.7	6318.2	5469.7	4671.8	3974.8	3302.0	2658.4	2098.5	1585.1	1123.5	748.4
40°	8108.1	7003.9	6039.6	5178.0	4375.8	3636.7	2957.8	2333.7	1765.0	1257.5	854.6
37.5°	8982.2	7752.6	6652.8	5662.7	4775.3	3988.7	3248.6	2558.0	1944.6	1409.2	955.7
35°	9967.5	8533.5	7238.1	6168.5	5201.0	4323.2	3524.7	2784.8	2135.0	1552.9	1051.4
32.5°	10917.4	9320.0	7915.1	6682.0	5603.9	4639.5	3801.7	3020.2	2314.5	1688.2	1141.5
30°	11955.5	10155.6	8564.8	7165.6	6002.1	4982.0	4071.7	3240.9	2482.6	1814.9	1231.8
27.5°	12973.5	10939.1	9197.7	7696.9	6417.1	5305.1	4323.2	3446.3	2639.0	1940.2	1334.2
25°	13969.2	11776.3	9870.5	8216.7	6801.2	5603.9	4555.6	3636.7	2799.5	2067.4	1428.5
22.5°	15004.3	12584.4	10488.6	8693.5	7153.2	5878.4	4785.4	3827.8	2953.9	2183.5	1514.5
20°	15946.6	13318.8	11049.6	9141.1	7516.1	6168.5	5009.3	4000.4	3093.3	2288.2	1592.1
17.5°	16818.0	14033.7	11635.6	9600.8	7868.5	6426.9	5208.6	4153.9	3217.2	2381.2	1660.9
15°	17705.1	14717.1	12165.5	10003.3	8176.8	6652.8	5382.7	4287.9	3325.2	2462.3	1720.9
12.5°	18465.2	15301.9	12618.4	10347.0	8439.9	6845.4	5530.9	4402.0	3417.2	2531.3	1772.0
10°	19093.7	15784.9	12992.1	10630.4	8656.5	7003.9	5652.9	4495.8	3492.8	2588.0	1813.9
7.5°	19586.8	16163.4	13284.7	10852.1	8826.0	7127.9	5748.3	4569.1	3551.8	2632.2	1846.6
5°	19941.4	16435.4	13494.8	11011.3	8947.6	7216.7	5816.6	4621.6	3594.1	2663.9	1870.0
2.5°	20155.0	16599.2	13621.4	11107.0	9020.7	7270.2	5857.7	4653.2	3619.5	2682.9	1884.1
0°	20226.4	16653.9	13663.6	11139.0	9045.1	7288.0	5871.4	4663.7	3628.0	2689.3	1888.8
-2.5°	20155.0	16599.2	13621.4	11107.0	9020.7	7270.2	5857.7	4653.2	3619.5	2682.9	1884.1
-5°	19941.4	16435.4	13494.8	11011.3	8947.6	7216.7	5816.6	4621.6	3594.1	2663.9	1870.0
-7.5°	19586.8	16163.4	13284.7	10852.1	8826.0	7127.9	5748.3	4569.1	3551.8	2632.2	1846.6
-10°	19093.7	15784.9	12992.1	10630.4	8656.5	7003.9	5652.9	4495.8	3492.8	2588.0	1813.9
-12.5°	18465.2	15301.9	12618.4	10347.0	8439.9	6845.4	5530.9	4402.0	3417.2	2531.3	1772.0
-15°	17705.1	14717.1	12165.5	10003.3	8176.8	6652.8	5382.7	4287.9	3325.2	2462.3	1720.9
-17.5°	16818.0	14033.7	11635.6	9600.8	7868.5	6426.9	5208.6	4153.9	3217.2	2381.2	1660.9
-20°	15946.6	13318.8	11049.6	9141.1	7516.1	6168.5	5009.3	4000.4	3093.3	2288.2	1592.1



REPORT NUMBER: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	15004.3	12584.4	10488.6	8693.5	7153.2	5878.4	4785.4	3827.8	2953.9	2183.5	1514.5
-25°	13969.2	11776.3	9870.5	8216.7	6801.2	5603.9	4555.6	3636.7	2799.5	2067.4	1428.5
-27.5°	12973.5	10939.1	9197.7	7696.9	6417.1	5305.1	4323.2	3446.3	2639.0	1940.2	1334.2
-30°	11955.5	10155.6	8564.8	7165.6	6002.1	4982.0	4071.7	3240.9	2482.6	1814.9	1231.8
-32.5°	10917.4	9320.0	7915.1	6682.0	5603.9	4639.5	3801.7	3020.2	2314.5	1688.2	1141.5
-35°	9967.5	8533.5	7238.1	6168.5	5201.0	4323.2	3524.7	2784.8	2135.0	1552.9	1051.4
-37.5°	8982.2	7752.6	6652.8	5662.7	4775.3	3988.7	3248.6	2558.0	1944.6	1409.2	955.7
-40°	8108.1	7003.9	6039.6	5178.0	4375.8	3636.7	2957.8	2333.7	1765.0	1257.5	854.6
-42.5°	7216.7	6318.2	5469.7	4671.8	3974.8	3302.0	2658.4	2098.5	1585.1	1123.5	748.4
-45°	6458.6	5646.3	4903.7	4219.4	3563.9	2953.9	2387.3	1858.1	1397.1	996.1	651.2
-47.5°	5705.4	5020.3	4367.4	3752.0	3171.5	2606.9	2105.6	1640.2	1202.4	863.4	570.2
-50°	5020.3	4417.0	3849.9	3303.1	2766.0	2288.2	1824.8	1414.2	1047.2	725.6	486.0
-52.5°	4367.4	3849.9	3347.2	2853.2	2398.6	1959.5	1568.0	1186.8	886.7	613.4	398.9
-55°	3752.0	3303.1	2853.2	2435.5	2032.8	1660.9	1303.7	1003.0	721.3	510.6	313.2
-57.5°	3171.5	2766.0	2398.6	2032.8	1692.0	1365.4	1073.3	814.3	591.2	404.9	260.3
-60°	2606.9	2288.2	1959.5	1660.9	1365.4	1096.8	861.0	639.9	469.4	306.1	205.9
-62.5°	2105.6	1824.8	1568.0	1303.7	1073.3	861.0	656.2	501.8	344.9	242.6	150.3
-65°	1640.2	1414.2	1186.8	1003.0	814.3	639.9	501.8	361.0	261.0	177.8	104.1
-67.5°	1202.4	1047.2	886.7	721.3	591.2	469.4	344.9	261.0	187.0	111.8	83.2
-70°	863.4	725.6	613.4	510.6	404.9	306.1	242.6	177.8	111.8	86.5	62.0
-72.5°	570.2	486.0	398.9	313.2	260.3	205.9	150.3	104.1	83.2	62.0	40.5
-75°	329.2	283.5	240.8	196.7	151.3	108.2	90.9	73.3	55.4	37.2	32.2
-77.5°	186.0	151.6	116.1	99.0	85.3	71.3	57.0	42.3	33.6	31.1	28.6
-80°	87.1	77.2	67.0	56.4	45.4	34.7	32.8	30.9	29.0	27.0	25.0
-82.5°	36.6	33.9	32.6	31.4	30.0	28.7	27.3	25.8	24.4	22.9	20.3
-85°	26.9	26.1	25.2	24.4	23.5	22.6	20.9	19.1	17.3	15.4	13.6
-87.5°	15.3	14.5	13.8	13.0	12.1	11.3	10.4	9.5	8.6	7.7	6.8
-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: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-7F-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°	5.8	4.9	3.9	2.9	2.0	1.0	0.0
85°	11.7	9.8	7.8	5.9	3.9	2.0	0.0
82.5°	17.5	14.6	11.7	8.8	5.9	2.9	0.0
80°	23.0	19.5	15.6	11.7	7.8	3.9	0.0
77.5°	26.1	23.5	19.5	14.6	9.8	4.9	0.0
75°	29.1	26.1	23.0	17.5	11.7	5.8	0.0
72.5°	32.2	28.6	25.0	20.3	13.6	6.8	0.0
70°	37.2	31.1	27.0	22.9	15.4	7.7	0.0
67.5°	55.4	33.6	29.0	24.4	17.3	8.6	0.0
65°	73.3	42.3	30.9	25.8	19.1	9.5	0.0
62.5°	90.9	57.0	32.8	27.3	20.9	10.4	0.0
60°	108.2	71.3	34.7	28.7	22.6	11.3	0.0
57.5°	151.3	85.3	45.4	30.0	23.5	12.1	0.0
55°	196.7	99.0	56.4	31.4	24.4	13.0	0.0
52.5°	240.8	116.1	67.0	32.6	25.2	13.8	0.0
50°	283.5	151.6	77.2	33.9	26.1	14.5	0.0
47.5°	329.2	186.0	87.1	36.6	26.9	15.3	0.0
45°	398.5	219.0	96.6	43.7	27.6	16.0	0.0
42.5°	465.0	250.6	105.8	50.5	28.4	16.7	0.0
40°	528.4	280.8	122.1	57.0	29.1	17.3	0.0
37.5°	588.8	309.5	145.1	63.2	29.7	17.9	0.0
35°	645.9	349.9	166.7	69.1	30.4	18.5	0.0
32.5°	706.4	394.5	187.1	74.6	31.0	19.1	0.0
30°	778.3	436.2	206.1	79.7	31.5	19.6	0.0
27.5°	845.0	474.9	223.7	84.5	32.0	20.0	0.0
25°	906.5	510.5	240.0	88.8	32.5	20.5	0.0
22.5°	962.5	542.9	254.7	92.8	32.9	20.9	0.0
20°	1013.0	572.2	268.1	96.4	33.3	21.2	0.0
17.5°	1057.7	598.1	279.9	99.6	33.7	21.6	0.0
15°	1096.8	620.7	290.2	102.4	34.0	21.8	0.0
12.5°	1130.0	639.9	298.9	104.7	34.2	22.1	0.0
10°	1157.2	655.6	306.1	106.6	34.4	22.3	0.0
7.5°	1178.5	667.9	311.7	108.2	34.6	22.4	0.0
5°	1193.7	676.7	315.7	109.2	34.7	22.5	0.0
2.5°	1202.8	682.0	318.1	109.9	34.8	22.6	0.0
0°	1205.9	683.8	318.9	110.1	34.8	22.6	0.0
-2.5°	1202.8	682.0	318.1	109.9	34.8	22.6	0.0
-5°	1193.7	676.7	315.7	109.2	34.7	22.5	0.0
-7.5°	1178.5	667.9	311.7	108.2	34.6	22.4	0.0
-10°	1157.2	655.6	306.1	106.6	34.4	22.3	0.0
-12.5°	1130.0	639.9	298.9	104.7	34.2	22.1	0.0
-15°	1096.8	620.7	290.2	102.4	34.0	21.8	0.0
-17.5°	1057.7	598.1	279.9	99.6	33.7	21.6	0.0
-20°	1013.0	572.2	268.1	96.4	33.3	21.2	0.0



REPORT NUMBER: P1212103 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-7F-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	962.5	542.9	254.7	92.8	32.9	20.9	0.0
-25°	906.5	510.5	240.0	88.8	32.5	20.5	0.0
-27.5°	845.0	474.9	223.7	84.5	32.0	20.0	0.0
-30°	778.3	436.2	206.1	79.7	31.5	19.6	0.0
-32.5°	706.4	394.5	187.1	74.6	31.0	19.1	0.0
-35°	645.9	349.9	166.7	69.1	30.4	18.5	0.0
-37.5°	588.8	309.5	145.1	63.2	29.7	17.9	0.0
-40°	528.4	280.8	122.1	57.0	29.1	17.3	0.0
-42.5°	465.0	250.6	105.8	50.5	28.4	16.7	0.0
-45°	398.5	219.0	96.6	43.7	27.6	16.0	0.0
-47.5°	329.2	186.0	87.1	36.6	26.9	15.3	0.0
-50°	283.5	151.6	77.2	33.9	26.1	14.5	0.0
-52.5°	240.8	116.1	67.0	32.6	25.2	13.8	0.0
-55°	196.7	99.0	56.4	31.4	24.4	13.0	0.0
-57.5°	151.3	85.3	45.4	30.0	23.5	12.1	0.0
-60°	108.2	71.3	34.7	28.7	22.6	11.3	0.0
-62.5°	90.9	57.0	32.8	27.3	20.9	10.4	0.0
-65°	73.3	42.3	30.9	25.8	19.1	9.5	0.0
-67.5°	55.4	33.6	29.0	24.4	17.3	8.6	0.0
-70°	37.2	31.1	27.0	22.9	15.4	7.7	0.0
-72.5°	32.2	28.6	25.0	20.3	13.6	6.8	0.0
-75°	29.1	26.1	23.0	17.5	11.7	5.8	0.0
-77.5°	26.1	23.5	19.5	14.6	9.8	4.9	0.0
-80°	23.0	19.5	15.6	11.7	7.8	3.9	0.0
-82.5°	17.5	14.6	11.7	8.8	5.9	2.9	0.0
-85°	11.7	9.8	7.8	5.9	3.9	2.0	0.0
-87.5°	5.8	4.9	3.9	2.9	2.0	1.0	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)