

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: EPHEBUS

Report Number: P1212121 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-40-90-7F-HEG**

Issue Date: 11/14/2025

Test Information

Test Method: LM-79-08
Report Number: P1212121 (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-40-90-7F-HEG
Description: EPHESUS LS12 LUMINAIRE
(12) 4000K, 90 CRI LEDS AND 7F BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

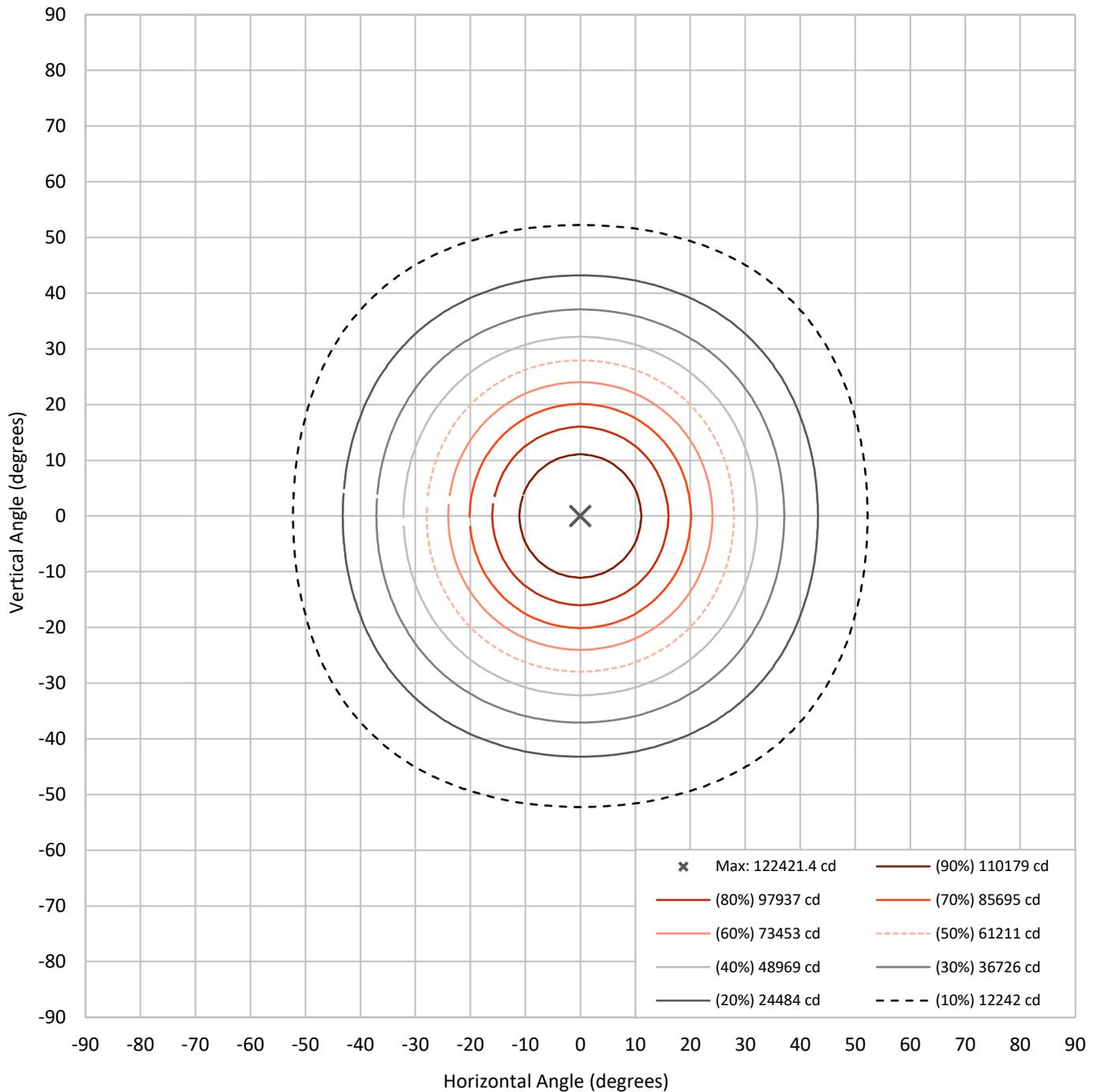
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	128512.5 lumens	Max Intensity:	122421.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	123.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	55.9°H x 55.9°V	Field Angle (10%):	104.5°H x 104.5°V
Beam Lumens:	64465.8 lumens	Field Lumens:	116830.7 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

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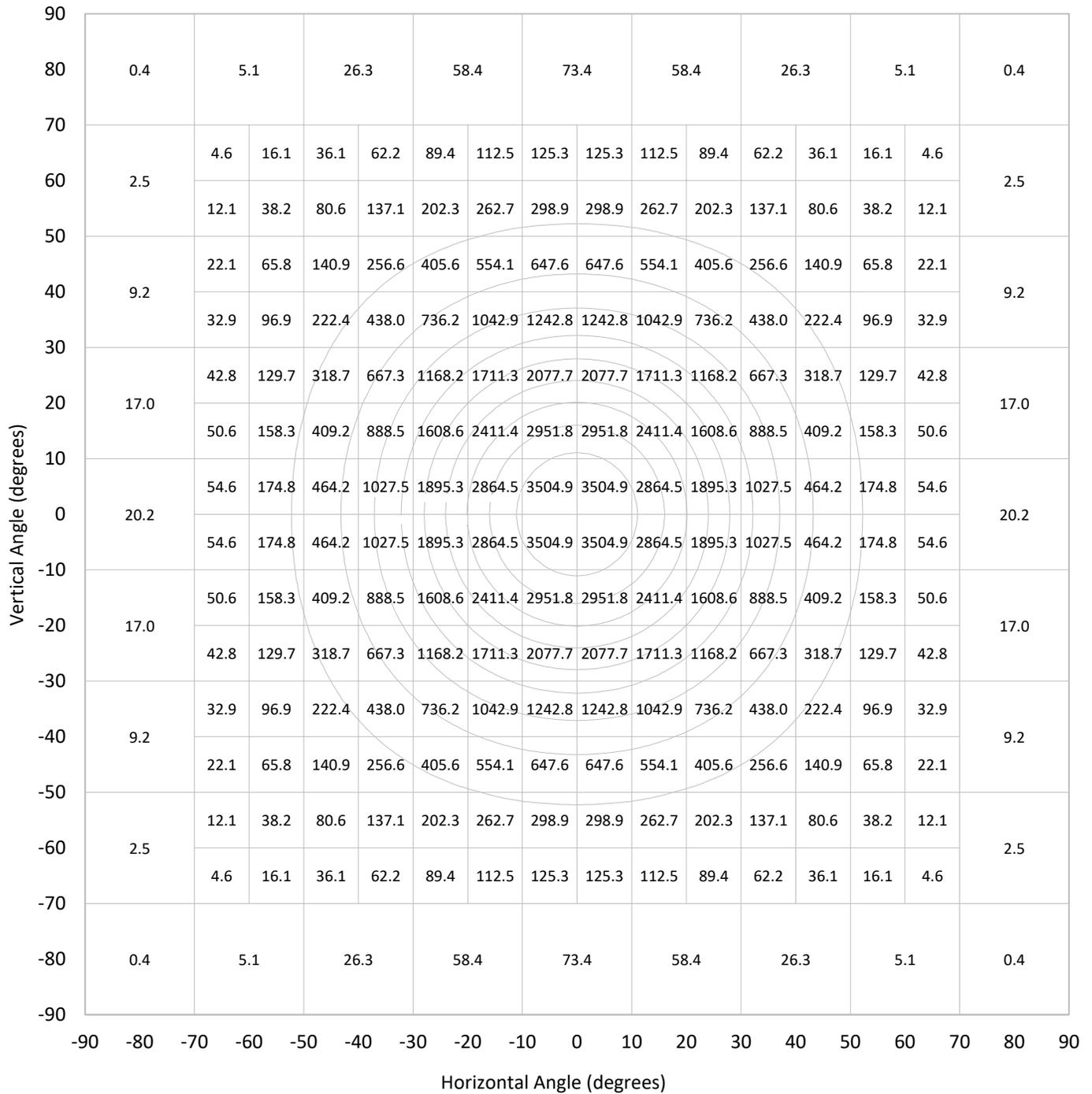
Iso-Candela Plot





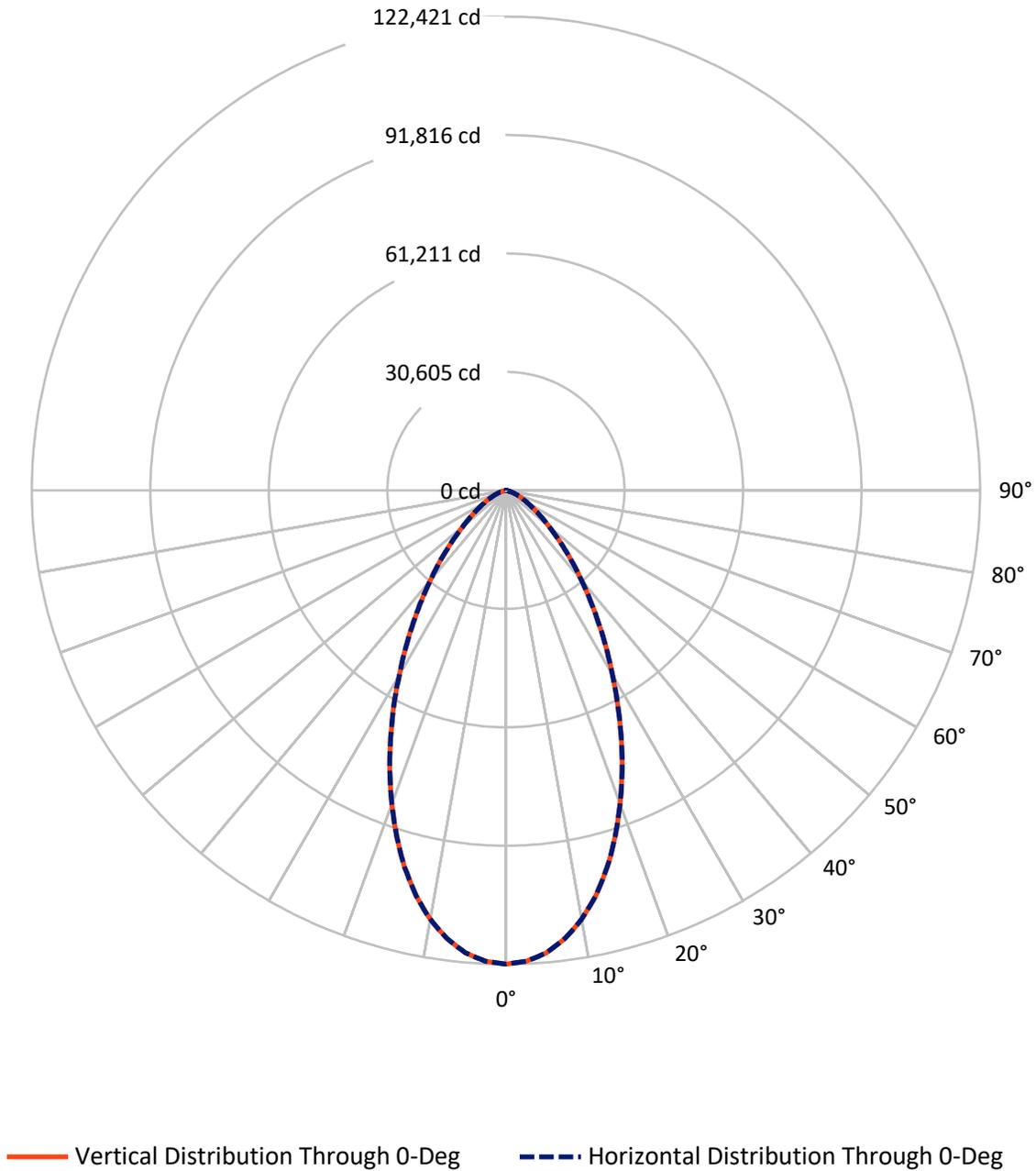
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Lumen Table



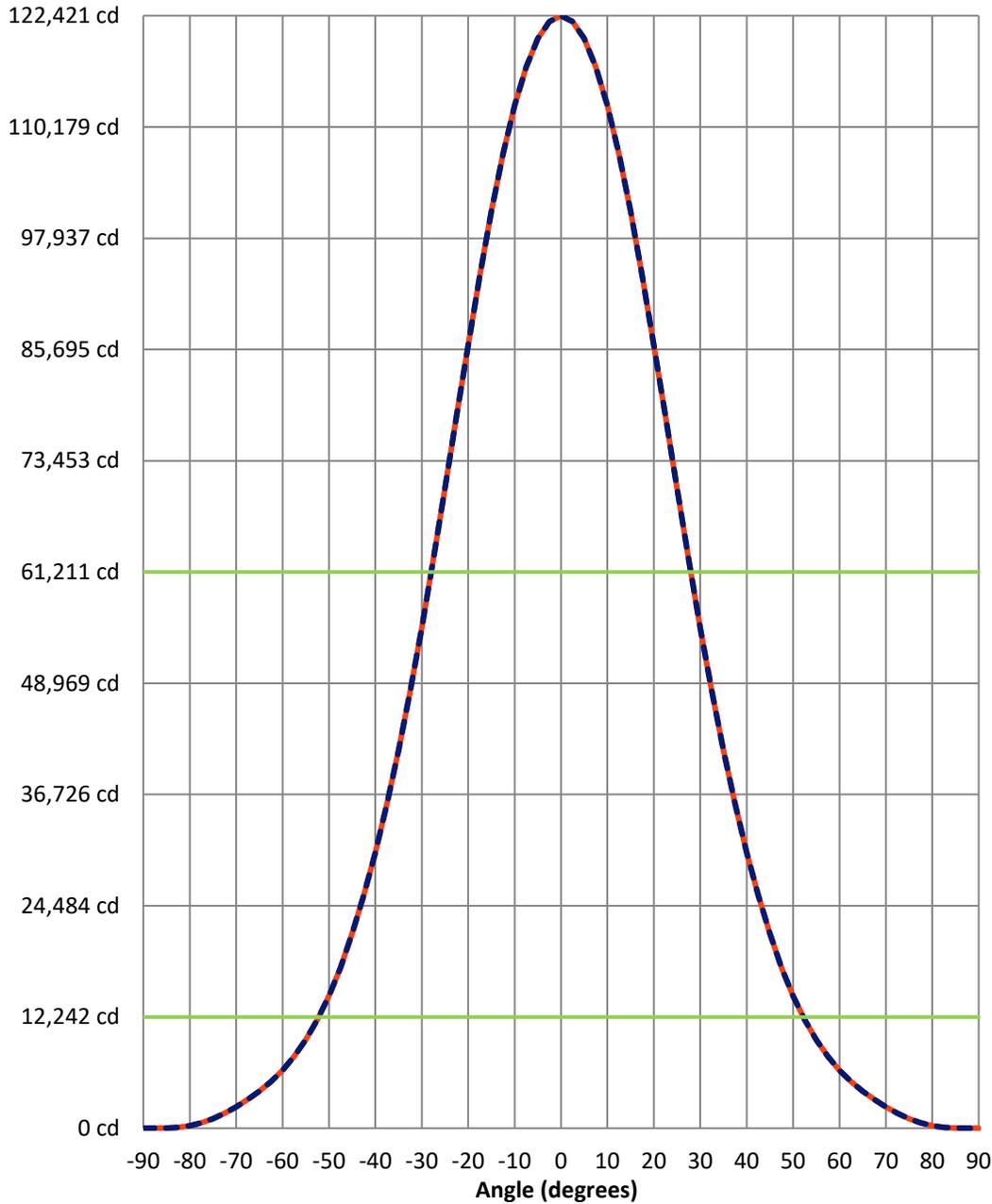
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
H Angle: 55.9°
V Angle: 55.9°
Lumens: 64465.8
Efficiency: 50.2%

Field:
H Angle: 104.5°
V Angle: 104.5°
Lumens: 116830.7
Efficiency: 90.9%

Spill:
Lumens: 11681.8
Efficiency: 9.1%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.9	1.7	2.6	3.4	4.3	5.1	6.0	6.8	7.6	8.4
85°	0.0	1.7	3.4	5.2	6.9	8.6	10.2	11.9	13.5	15.1	16.7
82.5°	0.0	2.6	5.2	7.7	10.3	12.8	15.3	17.8	20.1	21.4	22.6
80°	0.0	3.4	6.9	10.3	13.7	17.1	20.1	21.9	23.7	25.4	27.1
77.5°	0.0	4.3	8.6	12.8	17.1	20.6	22.8	25.1	27.3	29.4	37.0
75°	0.0	5.1	10.2	15.3	20.1	22.8	25.5	28.2	32.6	48.5	64.2
72.5°	0.0	6.0	11.9	17.8	21.9	25.1	28.2	35.4	54.3	72.8	91.1
70°	0.0	6.8	13.5	20.1	23.7	27.3	32.6	54.3	75.7	97.8	155.6
67.5°	0.0	7.6	15.1	21.4	25.4	29.4	48.5	72.8	97.8	163.6	228.4
65°	0.0	8.4	16.7	22.6	27.1	37.0	64.2	91.1	155.6	228.4	315.9
62.5°	0.0	9.1	18.3	23.9	28.8	49.9	79.6	131.5	212.2	301.7	439.0
60°	0.0	9.9	19.8	25.1	30.4	62.4	94.6	180.2	267.8	410.7	559.9
57.5°	0.0	10.6	20.6	26.3	39.8	74.7	132.4	227.7	354.3	517.3	712.5
55°	0.0	11.4	21.4	27.5	49.3	86.6	172.1	274.0	446.7	631.1	877.6
52.5°	0.0	12.1	22.1	28.6	58.6	101.5	210.7	349.0	536.7	775.8	1038.4
50°	0.0	12.7	22.8	29.7	67.6	132.6	248.1	425.2	634.8	916.2	1237.4
47.5°	0.0	13.4	23.5	32.1	76.2	162.7	288.0	498.9	755.4	1052.0	1435.0
45°	0.0	14.0	24.2	38.3	84.5	191.6	348.6	569.8	871.5	1222.4	1625.8
42.5°	0.0	14.6	24.9	44.2	92.5	219.2	406.8	654.8	983.0	1386.9	1836.1
40°	0.0	15.2	25.5	49.9	106.8	245.7	462.4	747.7	1100.3	1544.3	2041.9
37.5°	0.0	15.7	26.1	55.3	126.9	270.8	515.2	836.2	1233.0	1701.4	2238.1
35°	0.0	16.2	26.6	60.4	145.8	306.1	565.1	919.9	1358.7	1868.0	2436.6
32.5°	0.0	16.7	27.1	65.2	163.6	345.2	618.1	998.7	1477.1	2025.1	2642.6
30°	0.0	17.1	27.6	69.7	180.3	381.6	681.0	1077.8	1587.9	2172.2	2835.7
27.5°	0.0	17.6	28.1	73.9	195.7	415.5	739.4	1167.4	1697.6	2309.0	3015.4
25°	0.0	17.9	28.5	77.7	209.9	446.6	793.1	1249.9	1808.9	2449.4	3182.0
22.5°	0.0	18.3	28.9	81.2	222.9	475.0	842.1	1325.1	1910.4	2584.6	3349.2
20°	0.0	18.6	29.2	84.3	234.5	500.6	886.3	1393.0	2002.0	2706.5	3500.2
17.5°	0.0	18.9	29.5	87.1	244.9	523.3	925.5	1453.2	2083.4	2814.9	3634.5
15°	0.0	19.1	29.8	89.5	253.9	543.1	959.6	1505.7	2154.4	2909.5	3751.7
12.5°	0.0	19.3	30.0	91.6	261.5	559.9	988.7	1550.4	2214.7	2989.9	3851.5
10°	0.0	19.5	30.2	93.3	267.8	573.7	1012.5	1587.1	2264.3	3056.1	3933.6
7.5°	0.0	19.6	30.3	94.6	272.7	584.4	1031.1	1615.7	2303.0	3107.7	3997.7
5°	0.0	19.7	30.4	95.5	276.2	592.1	1044.4	1636.2	2330.8	3144.7	4043.7
2.5°	0.0	19.8	30.5	96.1	278.3	596.8	1052.4	1648.5	2347.4	3167.0	4071.3
0°	0.0	19.8	30.5	96.3	279.0	598.3	1055.1	1652.6	2353.0	3174.4	4080.5
-2.5°	0.0	19.8	30.5	96.1	278.3	596.8	1052.4	1648.5	2347.4	3167.0	4071.3
-5°	0.0	19.7	30.4	95.5	276.2	592.1	1044.4	1636.2	2330.8	3144.7	4043.7
-7.5°	0.0	19.6	30.3	94.6	272.7	584.4	1031.1	1615.7	2303.0	3107.7	3997.7
-10°	0.0	19.5	30.2	93.3	267.8	573.7	1012.5	1587.1	2264.3	3056.1	3933.6
-12.5°	0.0	19.3	30.0	91.6	261.5	559.9	988.7	1550.4	2214.7	2989.9	3851.5
-15°	0.0	19.1	29.8	89.5	253.9	543.1	959.6	1505.7	2154.4	2909.5	3751.7
-17.5°	0.0	18.9	29.5	87.1	244.9	523.3	925.5	1453.2	2083.4	2814.9	3634.5
-20°	0.0	18.6	29.2	84.3	234.5	500.6	886.3	1393.0	2002.0	2706.5	3500.2



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 CATALOG NUMBER: EPH-LS12-1000R-40-90-7F-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	18.3	28.9	81.2	222.9	475.0	842.1	1325.1	1910.4	2584.6	3349.2
-25°	0.0	17.9	28.5	77.7	209.9	446.6	793.1	1249.9	1808.9	2449.4	3182.0
-27.5°	0.0	17.6	28.1	73.9	195.7	415.5	739.4	1167.4	1697.6	2309.0	3015.4
-30°	0.0	17.1	27.6	69.7	180.3	381.6	681.0	1077.8	1587.9	2172.2	2835.7
-32.5°	0.0	16.7	27.1	65.2	163.6	345.2	618.1	998.7	1477.1	2025.1	2642.6
-35°	0.0	16.2	26.6	60.4	145.8	306.1	565.1	919.9	1358.7	1868.0	2436.6
-37.5°	0.0	15.7	26.1	55.3	126.9	270.8	515.2	836.2	1233.0	1701.4	2238.1
-40°	0.0	15.2	25.5	49.9	106.8	245.7	462.4	747.7	1100.3	1544.3	2041.9
-42.5°	0.0	14.6	24.9	44.2	92.5	219.2	406.8	654.8	983.0	1386.9	1836.1
-45°	0.0	14.0	24.2	38.3	84.5	191.6	348.6	569.8	871.5	1222.4	1625.8
-47.5°	0.0	13.4	23.5	32.1	76.2	162.7	288.0	498.9	755.4	1052.0	1435.0
-50°	0.0	12.7	22.8	29.7	67.6	132.6	248.1	425.2	634.8	916.2	1237.4
-52.5°	0.0	12.1	22.1	28.6	58.6	101.5	210.7	349.0	536.7	775.8	1038.4
-55°	0.0	11.4	21.4	27.5	49.3	86.6	172.1	274.0	446.7	631.1	877.6
-57.5°	0.0	10.6	20.6	26.3	39.8	74.7	132.4	227.7	354.3	517.3	712.5
-60°	0.0	9.9	19.8	25.1	30.4	62.4	94.6	180.2	267.8	410.7	559.9
-62.5°	0.0	9.1	18.3	23.9	28.8	49.9	79.6	131.5	212.2	301.7	439.0
-65°	0.0	8.4	16.7	22.6	27.1	37.0	64.2	91.1	155.6	228.4	315.9
-67.5°	0.0	7.6	15.1	21.4	25.4	29.4	48.5	72.8	97.8	163.6	228.4
-70°	0.0	6.8	13.5	20.1	23.7	27.3	32.6	54.3	75.7	97.8	155.6
-72.5°	0.0	6.0	11.9	17.8	21.9	25.1	28.2	35.4	54.3	72.8	91.1
-75°	0.0	5.1	10.2	15.3	20.1	22.8	25.5	28.2	32.6	48.5	64.2
-77.5°	0.0	4.3	8.6	12.8	17.1	20.6	22.8	25.1	27.3	29.4	37.0
-80°	0.0	3.4	6.9	10.3	13.7	17.1	20.1	21.9	23.7	25.4	27.1
-82.5°	0.0	2.6	5.2	7.7	10.3	12.8	15.3	17.8	20.1	21.4	22.6
-85°	0.0	1.7	3.4	5.2	6.9	8.6	10.2	11.9	13.5	15.1	16.7
-87.5°	0.0	0.9	1.7	2.6	3.4	4.3	5.1	6.0	6.8	7.6	8.4
-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: P1212121 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-90-7F-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°	9.1	9.9	10.6	11.4	12.1	12.7	13.4	14.0	14.6	15.2	15.7
85°	18.3	19.8	20.6	21.4	22.1	22.8	23.5	24.2	24.9	25.5	26.1
82.5°	23.9	25.1	26.3	27.5	28.6	29.7	32.1	38.3	44.2	49.9	55.3
80°	28.8	30.4	39.8	49.3	58.6	67.6	76.2	84.5	92.5	106.8	126.9
77.5°	49.9	62.4	74.7	86.6	101.5	132.6	162.7	191.6	219.2	245.7	270.8
75°	79.6	94.6	132.4	172.1	210.7	248.1	288.0	348.6	406.8	462.4	515.2
72.5°	131.5	180.2	227.7	274.0	349.0	425.2	498.9	569.8	654.8	747.7	836.2
70°	212.2	267.8	354.3	446.7	536.7	634.8	755.4	871.5	983.0	1100.3	1233.0
67.5°	301.7	410.7	517.3	631.1	775.8	916.2	1052.0	1222.4	1386.9	1544.3	1701.4
65°	439.0	559.9	712.5	877.6	1038.4	1237.4	1435.0	1625.8	1836.1	2041.9	2238.1
62.5°	574.1	753.3	939.1	1140.6	1371.9	1596.6	1842.3	2088.8	2326.0	2587.9	2842.4
60°	753.3	959.6	1194.7	1453.2	1714.5	2002.0	2280.9	2584.6	2889.1	3182.0	3489.9
57.5°	939.1	1194.7	1480.4	1778.6	2098.6	2420.1	2774.9	3118.3	3477.8	3828.6	4178.1
55°	1140.6	1453.2	1778.6	2131.0	2496.5	2890.1	3282.8	3691.8	4087.6	4530.5	4954.7
52.5°	1371.9	1714.5	2098.6	2496.5	2928.6	3368.6	3821.3	4290.5	4785.8	5284.5	5821.0
50°	1596.6	2002.0	2420.1	2890.1	3368.6	3864.7	4392.6	4940.3	5528.2	6128.2	6783.2
47.5°	1842.3	2280.9	2774.9	3282.8	3821.3	4392.6	4992.1	5651.0	6314.3	7094.3	7859.1
45°	2088.8	2584.6	3118.3	3691.8	4290.5	4940.3	5651.0	6376.7	7251.0	8132.3	9104.2
42.5°	2326.0	2889.1	3477.8	4087.6	4785.8	5528.2	6314.3	7251.0	8227.4	9297.3	10450.8
40°	2587.9	3182.0	3828.6	4530.5	5284.5	6128.2	7094.3	8132.3	9297.3	10569.7	11890.3
37.5°	2842.4	3489.9	4178.1	4954.7	5821.0	6783.2	7859.1	9104.2	10450.8	11890.3	13531.9
35°	3084.0	3782.6	4550.6	5397.2	6333.0	7466.4	8721.2	10096.3	11648.4	13385.2	15237.1
32.5°	3326.4	4059.4	4903.2	5846.5	6925.4	8154.6	9552.3	11169.0	12948.0	14879.5	17070.0
30°	3562.6	4359.0	5251.6	6269.6	7493.9	8885.7	10460.6	12228.6	14236.7	16523.0	19047.5
27.5°	3782.6	4641.8	5614.7	6734.5	8047.6	9571.3	11351.4	13362.4	15624.1	18154.0	21042.9
25°	3985.9	4903.2	5950.8	7189.2	8636.3	10303.8	12222.5	14420.5	16982.6	19905.9	23089.3
22.5°	4187.0	5143.4	6258.8	7606.5	9177.1	11010.9	13128.2	15558.6	18349.8	21540.5	25038.4
20°	4382.9	5397.2	6576.2	7998.1	9667.9	11653.5	13952.6	16623.5	19731.6	23203.4	26971.5
17.5°	4557.3	5623.4	6884.6	8400.3	10180.7	12279.1	14715.1	17579.9	20975.2	24703.6	28786.9
15°	4709.6	5821.0	7154.4	8752.5	10644.4	12877.0	15491.3	18568.5	22144.2	26076.0	30403.2
12.5°	4839.4	5989.5	7384.5	9053.3	11040.7	13388.6	16156.4	19437.3	23197.1	27356.6	31990.4
10°	4946.1	6128.2	7574.1	9301.2	11367.6	13811.2	16706.3	20156.6	24070.3	28420.6	33312.1
7.5°	5029.6	6236.6	7722.4	9495.2	11623.7	14142.3	17137.8	20721.6	24757.1	29258.7	34355.1
5°	5089.3	6314.3	7828.7	9634.4	11807.5	14380.3	17448.0	21128.2	25251.9	29863.2	35108.6
2.5°	5125.3	6361.1	7892.7	9718.2	11918.2	14523.6	17634.9	21373.4	25550.4	30228.3	35564.1
0°	5137.3	6376.7	7914.1	9746.2	11955.2	14571.5	17697.4	21455.3	25650.2	30350.4	35716.5
-2.5°	5125.3	6361.1	7892.7	9718.2	11918.2	14523.6	17634.9	21373.4	25550.4	30228.3	35564.1
-5°	5089.3	6314.3	7828.7	9634.4	11807.5	14380.3	17448.0	21128.2	25251.9	29863.2	35108.6
-7.5°	5029.6	6236.6	7722.4	9495.2	11623.7	14142.3	17137.8	20721.6	24757.1	29258.7	34355.1
-10°	4946.1	6128.2	7574.1	9301.2	11367.6	13811.2	16706.3	20156.6	24070.3	28420.6	33312.1
-12.5°	4839.4	5989.5	7384.5	9053.3	11040.7	13388.6	16156.4	19437.3	23197.1	27356.6	31990.4
-15°	4709.6	5821.0	7154.4	8752.5	10644.4	12877.0	15491.3	18568.5	22144.2	26076.0	30403.2
-17.5°	4557.3	5623.4	6884.6	8400.3	10180.7	12279.1	14715.1	17579.9	20975.2	24703.6	28786.9
-20°	4382.9	5397.2	6576.2	7998.1	9667.9	11653.5	13952.6	16623.5	19731.6	23203.4	26971.5



REPORT NUMBER: P1212121 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-90-7F-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	4187.0	5143.4	6258.8	7606.5	9177.1	11010.9	13128.2	15558.6	18349.8	21540.5	25038.4
-25°	3985.9	4903.2	5950.8	7189.2	8636.3	10303.8	12222.5	14420.5	16982.6	19905.9	23089.3
-27.5°	3782.6	4641.8	5614.7	6734.5	8047.6	9571.3	11351.4	13362.4	15624.1	18154.0	21042.9
-30°	3562.6	4359.0	5251.6	6269.6	7493.9	8885.7	10460.6	12228.6	14236.7	16523.0	19047.5
-32.5°	3326.4	4059.4	4903.2	5846.5	6925.4	8154.6	9552.3	11169.0	12948.0	14879.5	17070.0
-35°	3084.0	3782.6	4550.6	5397.2	6333.0	7466.4	8721.2	10096.3	11648.4	13385.2	15237.1
-37.5°	2842.4	3489.9	4178.1	4954.7	5821.0	6783.2	7859.1	9104.2	10450.8	11890.3	13531.9
-40°	2587.9	3182.0	3828.6	4530.5	5284.5	6128.2	7094.3	8132.3	9297.3	10569.7	11890.3
-42.5°	2326.0	2889.1	3477.8	4087.6	4785.8	5528.2	6314.3	7251.0	8227.4	9297.3	10450.8
-45°	2088.8	2584.6	3118.3	3691.8	4290.5	4940.3	5651.0	6376.7	7251.0	8132.3	9104.2
-47.5°	1842.3	2280.9	2774.9	3282.8	3821.3	4392.6	4992.1	5651.0	6314.3	7094.3	7859.1
-50°	1596.6	2002.0	2420.1	2890.1	3368.6	3864.7	4392.6	4940.3	5528.2	6128.2	6783.2
-52.5°	1371.9	1714.5	2098.6	2496.5	2928.6	3368.6	3821.3	4290.5	4785.8	5284.5	5821.0
-55°	1140.6	1453.2	1778.6	2131.0	2496.5	2890.1	3282.8	3691.8	4087.6	4530.5	4954.7
-57.5°	939.1	1194.7	1480.4	1778.6	2098.6	2420.1	2774.9	3118.3	3477.8	3828.6	4178.1
-60°	753.3	959.6	1194.7	1453.2	1714.5	2002.0	2280.9	2584.6	2889.1	3182.0	3489.9
-62.5°	574.1	753.3	939.1	1140.6	1371.9	1596.6	1842.3	2088.8	2326.0	2587.9	2842.4
-65°	439.0	559.9	712.5	877.6	1038.4	1237.4	1435.0	1625.8	1836.1	2041.9	2238.1
-67.5°	301.7	410.7	517.3	631.1	775.8	916.2	1052.0	1222.4	1386.9	1544.3	1701.4
-70°	212.2	267.8	354.3	446.7	536.7	634.8	755.4	871.5	983.0	1100.3	1233.0
-72.5°	131.5	180.2	227.7	274.0	349.0	425.2	498.9	569.8	654.8	747.7	836.2
-75°	79.6	94.6	132.4	172.1	210.7	248.1	288.0	348.6	406.8	462.4	515.2
-77.5°	49.9	62.4	74.7	86.6	101.5	132.6	162.7	191.6	219.2	245.7	270.8
-80°	28.8	30.4	39.8	49.3	58.6	67.6	76.2	84.5	92.5	106.8	126.9
-82.5°	23.9	25.1	26.3	27.5	28.6	29.7	32.1	38.3	44.2	49.9	55.3
-85°	18.3	19.8	20.6	21.4	22.1	22.8	23.5	24.2	24.9	25.5	26.1
-87.5°	9.1	9.9	10.6	11.4	12.1	12.7	13.4	14.0	14.6	15.2	15.7
-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: P1212121 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-100R-40-90-7F-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°	16.2	16.7	17.1	17.6	17.9	18.3	18.6	18.9	19.1	19.3	19.5
85°	26.6	27.1	27.6	28.1	28.5	28.9	29.2	29.5	29.8	30.0	30.2
82.5°	60.4	65.2	69.7	73.9	77.7	81.2	84.3	87.1	89.5	91.6	93.3
80°	145.8	163.6	180.3	195.7	209.9	222.9	234.5	244.9	253.9	261.5	267.8
77.5°	306.1	345.2	381.6	415.5	446.6	475.0	500.6	523.3	543.1	559.9	573.7
75°	565.1	618.1	681.0	739.4	793.1	842.1	886.3	925.5	959.6	988.7	1012.5
72.5°	919.9	998.7	1077.8	1167.4	1249.9	1325.1	1393.0	1453.2	1505.7	1550.4	1587.1
70°	1358.7	1477.1	1587.9	1697.6	1808.9	1910.4	2002.0	2083.4	2154.4	2214.7	2264.3
67.5°	1868.0	2025.1	2172.2	2309.0	2449.4	2584.6	2706.5	2814.9	2909.5	2989.9	3056.1
65°	2436.6	2642.6	2835.7	3015.4	3182.0	3349.2	3500.2	3634.5	3751.7	3851.5	3933.6
62.5°	3084.0	3326.4	3562.6	3782.6	3985.9	4187.0	4382.9	4557.3	4709.6	4839.4	4946.1
60°	3782.6	4059.4	4359.0	4641.8	4903.2	5143.4	5397.2	5623.4	5821.0	5989.5	6128.2
57.5°	4550.6	4903.2	5251.6	5614.7	5950.8	6258.8	6576.2	6884.6	7154.4	7384.5	7574.1
55°	5397.2	5846.5	6269.6	6734.5	7189.2	7606.5	7998.1	8400.3	8752.5	9053.3	9301.2
52.5°	6333.0	6925.4	7493.9	8047.6	8636.3	9177.1	9667.9	10180.7	10644.4	11040.7	11367.6
50°	7466.4	8154.6	8885.7	9571.3	10303.8	11010.9	11653.5	12279.1	12877.0	13388.6	13811.2
47.5°	8721.2	9552.3	10460.6	11351.4	12222.5	13128.2	13952.6	14715.1	15491.3	16156.4	16706.3
45°	10096.3	11169.0	12228.6	13362.4	14420.5	15558.6	16623.5	17579.9	18568.5	19437.3	20156.6
42.5°	11648.4	12948.0	14236.7	15624.1	16982.6	18349.8	19731.6	20975.2	22144.2	23197.1	24070.3
40°	13385.2	14879.5	16523.0	18154.0	19905.9	21540.5	23203.4	24703.6	26076.0	27356.6	28420.6
37.5°	15237.1	17070.0	19047.5	21042.9	23089.3	25038.4	26971.5	28786.9	30403.2	31990.4	33312.1
35°	17253.6	19499.2	21768.5	24143.1	26471.0	28813.8	31062.0	33300.0	35290.5	37137.9	38714.1
32.5°	19499.2	22028.4	24676.7	27390.8	30070.6	32897.5	35550.1	38179.9	40541.7	42698.6	44596.6
30°	21768.5	24676.7	27700.2	30758.6	34021.0	37220.5	40343.2	43367.0	46194.2	48705.0	50933.6
27.5°	24143.1	27390.8	30758.6	34399.4	38077.6	41679.9	45384.1	48842.7	52139.1	55030.5	57685.6
25°	26471.0	30070.6	34021.0	38077.6	42174.6	46412.2	50561.9	54513.5	58362.3	61799.5	64786.4
22.5°	28813.8	32897.5	37220.5	41679.9	46412.2	51143.2	55788.2	60429.4	64730.9	68615.9	71973.4
20°	31062.0	35550.1	40343.2	45384.1	50561.9	55788.2	61130.4	66252.1	71022.5	75380.6	79124.0
17.5°	33300.0	38179.9	43367.0	48842.7	54513.5	60429.4	66252.1	71855.5	77147.1	81842.7	85914.3
15°	35290.5	40541.7	46194.2	52139.1	58362.3	64730.9	71022.5	77147.1	82775.3	87888.3	92382.3
12.5°	37137.9	42698.6	48705.0	55030.5	61799.5	68615.9	75380.6	81842.7	87888.3	93473.9	98189.8
10°	38714.1	44596.6	50933.6	57685.6	64786.4	71973.4	79124.0	85914.3	92382.3	98189.8	103271.8
7.5°	39960.8	46102.0	52707.3	59808.4	67207.0	74720.6	82107.8	89234.6	95986.9	102110.8	107255.9
5°	40863.0	47193.7	53997.1	61357.5	68981.2	76745.8	84324.5	91725.1	98658.5	104935.7	110180.7
2.5°	41409.1	47855.6	54780.6	62300.9	70065.1	77988.3	85692.4	93274.5	100340.6	106646.1	111935.0
0°	41592.0	48077.4	55043.4	62617.7	70429.7	78407.3	86155.1	93801.0	100916.0	107203.4	112540.3
-2.5°	41409.1	47855.6	54780.6	62300.9	70065.1	77988.3	85692.4	93274.5	100340.6	106646.1	111935.0
-5°	40863.0	47193.7	53997.1	61357.5	68981.2	76745.8	84324.5	91725.1	98658.5	104935.7	110180.7
-7.5°	39960.8	46102.0	52707.3	59808.4	67207.0	74720.6	82107.8	89234.6	95986.9	102110.8	107255.9
-10°	38714.1	44596.6	50933.6	57685.6	64786.4	71973.4	79124.0	85914.3	92382.3	98189.8	103271.8
-12.5°	37137.9	42698.6	48705.0	55030.5	61799.5	68615.9	75380.6	81842.7	87888.3	93473.9	98189.8
-15°	35290.5	40541.7	46194.2	52139.1	58362.3	64730.9	71022.5	77147.1	82775.3	87888.3	92382.3
-17.5°	33300.0	38179.9	43367.0	48842.7	54513.5	60429.4	66252.1	71855.5	77147.1	81842.7	85914.3
-20°	31062.0	35550.1	40343.2	45384.1	50561.9	55788.2	61130.4	66252.1	71022.5	75380.6	79124.0



REPORT NUMBER: P1212121 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-90-7F-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	28813.8	32897.5	37220.5	41679.9	46412.2	51143.2	55788.2	60429.4	64730.9	68615.9	71973.4
-25°	26471.0	30070.6	34021.0	38077.6	42174.6	46412.2	50561.9	54513.5	58362.3	61799.5	64786.4
-27.5°	24143.1	27390.8	30758.6	34399.4	38077.6	41679.9	45384.1	48842.7	52139.1	55030.5	57685.6
-30°	21768.5	24676.7	27700.2	30758.6	34021.0	37220.5	40343.2	43367.0	46194.2	48705.0	50933.6
-32.5°	19499.2	22028.4	24676.7	27390.8	30070.6	32897.5	35550.1	38179.9	40541.7	42698.6	44596.6
-35°	17253.6	19499.2	21768.5	24143.1	26471.0	28813.8	31062.0	33300.0	35290.5	37137.9	38714.1
-37.5°	15237.1	17070.0	19047.5	21042.9	23089.3	25038.4	26971.5	28786.9	30403.2	31990.4	33312.1
-40°	13385.2	14879.5	16523.0	18154.0	19905.9	21540.5	23203.4	24703.6	26076.0	27356.6	28420.6
-42.5°	11648.4	12948.0	14236.7	15624.1	16982.6	18349.8	19731.6	20975.2	22144.2	23197.1	24070.3
-45°	10096.3	11169.0	12228.6	13362.4	14420.5	15558.6	16623.5	17579.9	18568.5	19437.3	20156.6
-47.5°	8721.2	9552.3	10460.6	11351.4	12222.5	13128.2	13952.6	14715.1	15491.3	16156.4	16706.3
-50°	7466.4	8154.6	8885.7	9571.3	10303.8	11010.9	11653.5	12279.1	12877.0	13388.6	13811.2
-52.5°	6333.0	6925.4	7493.9	8047.6	8636.3	9177.1	9667.9	10180.7	10644.4	11040.7	11367.6
-55°	5397.2	5846.5	6269.6	6734.5	7189.2	7606.5	7998.1	8400.3	8752.5	9053.3	9301.2
-57.5°	4550.6	4903.2	5251.6	5614.7	5950.8	6258.8	6576.2	6884.6	7154.4	7384.5	7574.1
-60°	3782.6	4059.4	4359.0	4641.8	4903.2	5143.4	5397.2	5623.4	5821.0	5989.5	6128.2
-62.5°	3084.0	3326.4	3562.6	3782.6	3985.9	4187.0	4382.9	4557.3	4709.6	4839.4	4946.1
-65°	2436.6	2642.6	2835.7	3015.4	3182.0	3349.2	3500.2	3634.5	3751.7	3851.5	3933.6
-67.5°	1868.0	2025.1	2172.2	2309.0	2449.4	2584.6	2706.5	2814.9	2909.5	2989.9	3056.1
-70°	1358.7	1477.1	1587.9	1697.6	1808.9	1910.4	2002.0	2083.4	2154.4	2214.7	2264.3
-72.5°	919.9	998.7	1077.8	1167.4	1249.9	1325.1	1393.0	1453.2	1505.7	1550.4	1587.1
-75°	565.1	618.1	681.0	739.4	793.1	842.1	886.3	925.5	959.6	988.7	1012.5
-77.5°	306.1	345.2	381.6	415.5	446.6	475.0	500.6	523.3	543.1	559.9	573.7
-80°	145.8	163.6	180.3	195.7	209.9	222.9	234.5	244.9	253.9	261.5	267.8
-82.5°	60.4	65.2	69.7	73.9	77.7	81.2	84.3	87.1	89.5	91.6	93.3
-85°	26.6	27.1	27.6	28.1	28.5	28.9	29.2	29.5	29.8	30.0	30.2
-87.5°	16.2	16.7	17.1	17.6	17.9	18.3	18.6	18.9	19.1	19.3	19.5
-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: P1212121 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-100R-40-90-7F-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°	19.6	19.7	19.8	19.8	19.8	19.7	19.6	19.5	19.3	19.1	18.9
85°	30.3	30.4	30.5	30.5	30.5	30.4	30.3	30.2	30.0	29.8	29.5
82.5°	94.6	95.5	96.1	96.3	96.1	95.5	94.6	93.3	91.6	89.5	87.1
80°	272.7	276.2	278.3	279.0	278.3	276.2	272.7	267.8	261.5	253.9	244.9
77.5°	584.4	592.1	596.8	598.3	596.8	592.1	584.4	573.7	559.9	543.1	523.3
75°	1031.1	1044.4	1052.4	1055.1	1052.4	1044.4	1031.1	1012.5	988.7	959.6	925.5
72.5°	1615.7	1636.2	1648.5	1652.6	1648.5	1636.2	1615.7	1587.1	1550.4	1505.7	1453.2
70°	2303.0	2330.8	2347.4	2353.0	2347.4	2330.8	2303.0	2264.3	2214.7	2154.4	2083.4
67.5°	3107.7	3144.7	3167.0	3174.4	3167.0	3144.7	3107.7	3056.1	2989.9	2909.5	2814.9
65°	3997.7	4043.7	4071.3	4080.5	4071.3	4043.7	3997.7	3933.6	3851.5	3751.7	3634.5
62.5°	5029.6	5089.3	5125.3	5137.3	5125.3	5089.3	5029.6	4946.1	4839.4	4709.6	4557.3
60°	6236.6	6314.3	6361.1	6376.7	6361.1	6314.3	6236.6	6128.2	5989.5	5821.0	5623.4
57.5°	7722.4	7828.7	7892.7	7914.1	7892.7	7828.7	7722.4	7574.1	7384.5	7154.4	6884.6
55°	9495.2	9634.4	9718.2	9746.2	9718.2	9634.4	9495.2	9301.2	9053.3	8752.5	8400.3
52.5°	11623.7	11807.5	11918.2	11955.2	11918.2	11807.5	11623.7	11367.6	11040.7	10644.4	10180.7
50°	14142.3	14380.3	14523.6	14571.5	14523.6	14380.3	14142.3	13811.2	13388.6	12877.0	12279.1
47.5°	17137.8	17448.0	17634.9	17697.4	17634.9	17448.0	17137.8	16706.3	16156.4	15491.3	14715.1
45°	20721.6	21128.2	21373.4	21455.3	21373.4	21128.2	20721.6	20156.6	19437.3	18568.5	17579.9
42.5°	24757.1	25251.9	25550.4	25650.2	25550.4	25251.9	24757.1	24070.3	23197.1	22144.2	20975.2
40°	29258.7	29863.2	30228.3	30350.4	30228.3	29863.2	29258.7	28420.6	27356.6	26076.0	24703.6
37.5°	34355.1	35108.6	35564.1	35716.5	35564.1	35108.6	34355.1	33312.1	31990.4	30403.2	28786.9
35°	39960.8	40863.0	41409.1	41592.0	41409.1	40863.0	39960.8	38714.1	37137.9	35290.5	33300.0
32.5°	46102.0	47193.7	47855.6	48077.4	47855.6	47193.7	46102.0	44596.6	42698.6	40541.7	38179.9
30°	52707.3	53997.1	54780.6	55043.4	54780.6	53997.1	52707.3	50933.6	48705.0	46194.2	43367.0
27.5°	59808.4	61357.5	62300.9	62617.7	62300.9	61357.5	59808.4	57685.6	55030.5	52139.1	48842.7
25°	67207.0	68981.2	70065.1	70429.7	70065.1	68981.2	67207.0	64786.4	61799.5	58362.3	54513.5
22.5°	74720.6	76745.8	77988.3	78407.3	77988.3	76745.8	74720.6	71973.4	68615.9	64730.9	60429.4
20°	82107.8	84324.5	85692.4	86155.1	85692.4	84324.5	82107.8	79124.0	75380.6	71022.5	66252.1
17.5°	89234.6	91725.1	93274.5	93801.0	93274.5	91725.1	89234.6	85914.3	81842.7	77147.1	71855.5
15°	95986.9	98658.5	100340.6	100916.0	100340.6	98658.5	95986.9	92382.3	87888.3	82775.3	77147.1
12.5°	102110.8	104935.7	106646.1	107203.4	106646.1	104935.7	102110.8	98189.8	93473.9	87888.3	81842.7
10°	107255.9	110180.7	111935.0	112540.3	111935.0	110180.7	107255.9	103271.8	98189.8	92382.3	85914.3
7.5°	111365.3	114383.5	116168.3	116773.9	116168.3	114383.5	111365.3	107255.9	102110.8	95986.9	89234.6
5°	114383.5	117424.6	119286.6	119903.0	119286.6	117424.6	114383.5	110180.7	104935.7	98658.5	91725.1
2.5°	116168.3	119286.6	121143.4	121767.5	121143.4	119286.6	116168.3	111935.0	106646.1	100340.6	93274.5
0°	116773.9	119903.0	121767.5	122421.4	121767.5	119903.0	116773.9	112540.3	107203.4	100916.0	93801.0
-2.5°	116168.3	119286.6	121143.4	121767.5	121143.4	119286.6	116168.3	111935.0	106646.1	100340.6	93274.5
-5°	114383.5	117424.6	119286.6	119903.0	119286.6	117424.6	114383.5	110180.7	104935.7	98658.5	91725.1
-7.5°	111365.3	114383.5	116168.3	116773.9	116168.3	114383.5	111365.3	107255.9	102110.8	95986.9	89234.6
-10°	107255.9	110180.7	111935.0	112540.3	111935.0	110180.7	107255.9	103271.8	98189.8	92382.3	85914.3
-12.5°	102110.8	104935.7	106646.1	107203.4	106646.1	104935.7	102110.8	98189.8	93473.9	87888.3	81842.7
-15°	95986.9	98658.5	100340.6	100916.0	100340.6	98658.5	95986.9	92382.3	87888.3	82775.3	77147.1
-17.5°	89234.6	91725.1	93274.5	93801.0	93274.5	91725.1	89234.6	85914.3	81842.7	77147.1	71855.5
-20°	82107.8	84324.5	85692.4	86155.1	85692.4	84324.5	82107.8	79124.0	75380.6	71022.5	66252.1



REPORT NUMBER: P1212121 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-90-7F-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	74720.6	76745.8	77988.3	78407.3	77988.3	76745.8	74720.6	71973.4	68615.9	64730.9	60429.4
-25°	67207.0	68981.2	70065.1	70429.7	70065.1	68981.2	67207.0	64786.4	61799.5	58362.3	54513.5
-27.5°	59808.4	61357.5	62300.9	62617.7	62300.9	61357.5	59808.4	57685.6	55030.5	52139.1	48842.7
-30°	52707.3	53997.1	54780.6	55043.4	54780.6	53997.1	52707.3	50933.6	48705.0	46194.2	43367.0
-32.5°	46102.0	47193.7	47855.6	48077.4	47855.6	47193.7	46102.0	44596.6	42698.6	40541.7	38179.9
-35°	39960.8	40863.0	41409.1	41592.0	41409.1	40863.0	39960.8	38714.1	37137.9	35290.5	33300.0
-37.5°	34355.1	35108.6	35564.1	35716.5	35564.1	35108.6	34355.1	33312.1	31990.4	30403.2	28786.9
-40°	29258.7	29863.2	30228.3	30350.4	30228.3	29863.2	29258.7	28420.6	27356.6	26076.0	24703.6
-42.5°	24757.1	25251.9	25550.4	25650.2	25550.4	25251.9	24757.1	24070.3	23197.1	22144.2	20975.2
-45°	20721.6	21128.2	21373.4	21455.3	21373.4	21128.2	20721.6	20156.6	19437.3	18568.5	17579.9
-47.5°	17137.8	17448.0	17634.9	17697.4	17634.9	17448.0	17137.8	16706.3	16156.4	15491.3	14715.1
-50°	14142.3	14380.3	14523.6	14571.5	14523.6	14380.3	14142.3	13811.2	13388.6	12877.0	12279.1
-52.5°	11623.7	11807.5	11918.2	11955.2	11918.2	11807.5	11623.7	11367.6	11040.7	10644.4	10180.7
-55°	9495.2	9634.4	9718.2	9746.2	9718.2	9634.4	9495.2	9301.2	9053.3	8752.5	8400.3
-57.5°	7722.4	7828.7	7892.7	7914.1	7892.7	7828.7	7722.4	7574.1	7384.5	7154.4	6884.6
-60°	6236.6	6314.3	6361.1	6376.7	6361.1	6314.3	6236.6	6128.2	5989.5	5821.0	5623.4
-62.5°	5029.6	5089.3	5125.3	5137.3	5125.3	5089.3	5029.6	4946.1	4839.4	4709.6	4557.3
-65°	3997.7	4043.7	4071.3	4080.5	4071.3	4043.7	3997.7	3933.6	3851.5	3751.7	3634.5
-67.5°	3107.7	3144.7	3167.0	3174.4	3167.0	3144.7	3107.7	3056.1	2989.9	2909.5	2814.9
-70°	2303.0	2330.8	2347.4	2353.0	2347.4	2330.8	2303.0	2264.3	2214.7	2154.4	2083.4
-72.5°	1615.7	1636.2	1648.5	1652.6	1648.5	1636.2	1615.7	1587.1	1550.4	1505.7	1453.2
-75°	1031.1	1044.4	1052.4	1055.1	1052.4	1044.4	1031.1	1012.5	988.7	959.6	925.5
-77.5°	584.4	592.1	596.8	598.3	596.8	592.1	584.4	573.7	559.9	543.1	523.3
-80°	272.7	276.2	278.3	279.0	278.3	276.2	272.7	267.8	261.5	253.9	244.9
-82.5°	94.6	95.5	96.1	96.3	96.1	95.5	94.6	93.3	91.6	89.5	87.1
-85°	30.3	30.4	30.5	30.5	30.5	30.4	30.3	30.2	30.0	29.8	29.5
-87.5°	19.6	19.7	19.8	19.8	19.8	19.7	19.6	19.5	19.3	19.1	18.9
-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: P1212121 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-100R-40-90-7F-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°	18.6	18.3	17.9	17.6	17.1	16.7	16.2	15.7	15.2	14.6	14.0
85°	29.2	28.9	28.5	28.1	27.6	27.1	26.6	26.1	25.5	24.9	24.2
82.5°	84.3	81.2	77.7	73.9	69.7	65.2	60.4	55.3	49.9	44.2	38.3
80°	234.5	222.9	209.9	195.7	180.3	163.6	145.8	126.9	106.8	92.5	84.5
77.5°	500.6	475.0	446.6	415.5	381.6	345.2	306.1	270.8	245.7	219.2	191.6
75°	886.3	842.1	793.1	739.4	681.0	618.1	565.1	515.2	462.4	406.8	348.6
72.5°	1393.0	1325.1	1249.9	1167.4	1077.8	998.7	919.9	836.2	747.7	654.8	569.8
70°	2002.0	1910.4	1808.9	1697.6	1587.9	1477.1	1358.7	1233.0	1100.3	983.0	871.5
67.5°	2706.5	2584.6	2449.4	2309.0	2172.2	2025.1	1868.0	1701.4	1544.3	1386.9	1222.4
65°	3500.2	3349.2	3182.0	3015.4	2835.7	2642.6	2436.6	2238.1	2041.9	1836.1	1625.8
62.5°	4382.9	4187.0	3985.9	3782.6	3562.6	3326.4	3084.0	2842.4	2587.9	2326.0	2088.8
60°	5397.2	5143.4	4903.2	4641.8	4359.0	4059.4	3782.6	3489.9	3182.0	2889.1	2584.6
57.5°	6576.2	6258.8	5950.8	5614.7	5251.6	4903.2	4550.6	4178.1	3828.6	3477.8	3118.3
55°	7998.1	7606.5	7189.2	6734.5	6269.6	5846.5	5397.2	4954.7	4530.5	4087.6	3691.8
52.5°	9667.9	9177.1	8636.3	8047.6	7493.9	6925.4	6333.0	5821.0	5284.5	4785.8	4290.5
50°	11653.5	11010.9	10303.8	9571.3	8885.7	8154.6	7466.4	6783.2	6128.2	5528.2	4940.3
47.5°	13952.6	13128.2	12222.5	11351.4	10460.6	9552.3	8721.2	7859.1	7094.3	6314.3	5651.0
45°	16623.5	15558.6	14420.5	13362.4	12228.6	11169.0	10096.3	9104.2	8132.3	7251.0	6376.7
42.5°	19731.6	18349.8	16982.6	15624.1	14236.7	12948.0	11648.4	10450.8	9297.3	8227.4	7251.0
40°	23203.4	21540.5	19905.9	18154.0	16523.0	14879.5	13385.2	11890.3	10569.7	9297.3	8132.3
37.5°	26971.5	25038.4	23089.3	21042.9	19047.5	17070.0	15237.1	13531.9	11890.3	10450.8	9104.2
35°	31062.0	28813.8	26471.0	24143.1	21768.5	19499.2	17253.6	15237.1	13385.2	11648.4	10096.3
32.5°	35550.1	32897.5	30070.6	27390.8	24676.7	22028.4	19499.2	17070.0	14879.5	12948.0	11169.0
30°	40343.2	37220.5	34021.0	30758.6	27700.2	24676.7	21768.5	19047.5	16523.0	14236.7	12228.6
27.5°	45384.1	41679.9	38077.6	34399.4	30758.6	27390.8	24143.1	21042.9	18154.0	15624.1	13362.4
25°	50561.9	46412.2	42174.6	38077.6	34021.0	30070.6	26471.0	23089.3	19905.9	16982.6	14420.5
22.5°	55788.2	51143.2	46412.2	41679.9	37220.5	32897.5	28813.8	25038.4	21540.5	18349.8	15558.6
20°	61130.4	55788.2	50561.9	45384.1	40343.2	35550.1	31062.0	26971.5	23203.4	19731.6	16623.5
17.5°	66252.1	60429.4	54513.5	48842.7	43367.0	38179.9	33300.0	28786.9	24703.6	20975.2	17579.9
15°	71022.5	64730.9	58362.3	52139.1	46194.2	40541.7	35290.5	30403.2	26076.0	22144.2	18568.5
12.5°	75380.6	68615.9	61799.5	55030.5	48705.0	42698.6	37137.9	31990.4	27356.6	23197.1	19437.3
10°	79124.0	71973.4	64786.4	57685.6	50933.6	44596.6	38714.1	33312.1	28420.6	24070.3	20156.6
7.5°	82107.8	74720.6	67207.0	59808.4	52707.3	46102.0	39960.8	34355.1	29258.7	24757.1	20721.6
5°	84324.5	76745.8	68981.2	61357.5	53997.1	47193.7	40863.0	35108.6	29863.2	25251.9	21128.2
2.5°	85692.4	77988.3	70065.1	62300.9	54780.6	47855.6	41409.1	35564.1	30228.3	25550.4	21373.4
0°	86155.1	78407.3	70429.7	62617.7	55043.4	48077.4	41592.0	35716.5	30350.4	25650.2	21455.3
-2.5°	85692.4	77988.3	70065.1	62300.9	54780.6	47855.6	41409.1	35564.1	30228.3	25550.4	21373.4
-5°	84324.5	76745.8	68981.2	61357.5	53997.1	47193.7	40863.0	35108.6	29863.2	25251.9	21128.2
-7.5°	82107.8	74720.6	67207.0	59808.4	52707.3	46102.0	39960.8	34355.1	29258.7	24757.1	20721.6
-10°	79124.0	71973.4	64786.4	57685.6	50933.6	44596.6	38714.1	33312.1	28420.6	24070.3	20156.6
-12.5°	75380.6	68615.9	61799.5	55030.5	48705.0	42698.6	37137.9	31990.4	27356.6	23197.1	19437.3
-15°	71022.5	64730.9	58362.3	52139.1	46194.2	40541.7	35290.5	30403.2	26076.0	22144.2	18568.5
-17.5°	66252.1	60429.4	54513.5	48842.7	43367.0	38179.9	33300.0	28786.9	24703.6	20975.2	17579.9
-20°	61130.4	55788.2	50561.9	45384.1	40343.2	35550.1	31062.0	26971.5	23203.4	19731.6	16623.5



REPORT NUMBER: P1212121 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-1000R-40-90-7F-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	55788.2	51143.2	46412.2	41679.9	37220.5	32897.5	28813.8	25038.4	21540.5	18349.8	15558.6
-25°	50561.9	46412.2	42174.6	38077.6	34021.0	30070.6	26471.0	23089.3	19905.9	16982.6	14420.5
-27.5°	45384.1	41679.9	38077.6	34399.4	30758.6	27390.8	24143.1	21042.9	18154.0	15624.1	13362.4
-30°	40343.2	37220.5	34021.0	30758.6	27700.2	24676.7	21768.5	19047.5	16523.0	14236.7	12228.6
-32.5°	35550.1	32897.5	30070.6	27390.8	24676.7	22028.4	19499.2	17070.0	14879.5	12948.0	11169.0
-35°	31062.0	28813.8	26471.0	24143.1	21768.5	19499.2	17253.6	15237.1	13385.2	11648.4	10096.3
-37.5°	26971.5	25038.4	23089.3	21042.9	19047.5	17070.0	15237.1	13531.9	11890.3	10450.8	9104.2
-40°	23203.4	21540.5	19905.9	18154.0	16523.0	14879.5	13385.2	11890.3	10569.7	9297.3	8132.3
-42.5°	19731.6	18349.8	16982.6	15624.1	14236.7	12948.0	11648.4	10450.8	9297.3	8227.4	7251.0
-45°	16623.5	15558.6	14420.5	13362.4	12228.6	11169.0	10096.3	9104.2	8132.3	7251.0	6376.7
-47.5°	13952.6	13128.2	12222.5	11351.4	10460.6	9552.3	8721.2	7859.1	7094.3	6314.3	5651.0
-50°	11653.5	11010.9	10303.8	9571.3	8885.7	8154.6	7466.4	6783.2	6128.2	5528.2	4940.3
-52.5°	9667.9	9177.1	8636.3	8047.6	7493.9	6925.4	6333.0	5821.0	5284.5	4785.8	4290.5
-55°	7998.1	7606.5	7189.2	6734.5	6269.6	5846.5	5397.2	4954.7	4530.5	4087.6	3691.8
-57.5°	6576.2	6258.8	5950.8	5614.7	5251.6	4903.2	4550.6	4178.1	3828.6	3477.8	3118.3
-60°	5397.2	5143.4	4903.2	4641.8	4359.0	4059.4	3782.6	3489.9	3182.0	2889.1	2584.6
-62.5°	4382.9	4187.0	3985.9	3782.6	3562.6	3326.4	3084.0	2842.4	2587.9	2326.0	2088.8
-65°	3500.2	3349.2	3182.0	3015.4	2835.7	2642.6	2436.6	2238.1	2041.9	1836.1	1625.8
-67.5°	2706.5	2584.6	2449.4	2309.0	2172.2	2025.1	1868.0	1701.4	1544.3	1386.9	1222.4
-70°	2002.0	1910.4	1808.9	1697.6	1587.9	1477.1	1358.7	1233.0	1100.3	983.0	871.5
-72.5°	1393.0	1325.1	1249.9	1167.4	1077.8	998.7	919.9	836.2	747.7	654.8	569.8
-75°	886.3	842.1	793.1	739.4	681.0	618.1	565.1	515.2	462.4	406.8	348.6
-77.5°	500.6	475.0	446.6	415.5	381.6	345.2	306.1	270.8	245.7	219.2	191.6
-80°	234.5	222.9	209.9	195.7	180.3	163.6	145.8	126.9	106.8	92.5	84.5
-82.5°	84.3	81.2	77.7	73.9	69.7	65.2	60.4	55.3	49.9	44.2	38.3
-85°	29.2	28.9	28.5	28.1	27.6	27.1	26.6	26.1	25.5	24.9	24.2
-87.5°	18.6	18.3	17.9	17.6	17.1	16.7	16.2	15.7	15.2	14.6	14.0
-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: P1212121 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-90-7F-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°	13.4	12.7	12.1	11.4	10.6	9.9	9.1	8.4	7.6	6.8	6.0
85°	23.5	22.8	22.1	21.4	20.6	19.8	18.3	16.7	15.1	13.5	11.9
82.5°	32.1	29.7	28.6	27.5	26.3	25.1	23.9	22.6	21.4	20.1	17.8
80°	76.2	67.6	58.6	49.3	39.8	30.4	28.8	27.1	25.4	23.7	21.9
77.5°	162.7	132.6	101.5	86.6	74.7	62.4	49.9	37.0	29.4	27.3	25.1
75°	288.0	248.1	210.7	172.1	132.4	94.6	79.6	64.2	48.5	32.6	28.2
72.5°	498.9	425.2	349.0	274.0	227.7	180.2	131.5	91.1	72.8	54.3	35.4
70°	755.4	634.8	536.7	446.7	354.3	267.8	212.2	155.6	97.8	75.7	54.3
67.5°	1052.0	916.2	775.8	631.1	517.3	410.7	301.7	228.4	163.6	97.8	72.8
65°	1435.0	1237.4	1038.4	877.6	712.5	559.9	439.0	315.9	228.4	155.6	91.1
62.5°	1842.3	1596.6	1371.9	1140.6	939.1	753.3	574.1	439.0	301.7	212.2	131.5
60°	2280.9	2002.0	1714.5	1453.2	1194.7	959.6	753.3	559.9	410.7	267.8	180.2
57.5°	2774.9	2420.1	2098.6	1778.6	1480.4	1194.7	939.1	712.5	517.3	354.3	227.7
55°	3282.8	2890.1	2496.5	2131.0	1778.6	1453.2	1140.6	877.6	631.1	446.7	274.0
52.5°	3821.3	3368.6	2928.6	2496.5	2098.6	1714.5	1371.9	1038.4	775.8	536.7	349.0
50°	4392.6	3864.7	3368.6	2890.1	2420.1	2002.0	1596.6	1237.4	916.2	634.8	425.2
47.5°	4992.1	4392.6	3821.3	3282.8	2774.9	2280.9	1842.3	1435.0	1052.0	755.4	498.9
45°	5651.0	4940.3	4290.5	3691.8	3118.3	2584.6	2088.8	1625.8	1222.4	871.5	569.8
42.5°	6314.3	5528.2	4785.8	4087.6	3477.8	2889.1	2326.0	1836.1	1386.9	983.0	654.8
40°	7094.3	6128.2	5284.5	4530.5	3828.6	3182.0	2587.9	2041.9	1544.3	1100.3	747.7
37.5°	7859.1	6783.2	5821.0	4954.7	4178.1	3489.9	2842.4	2238.1	1701.4	1233.0	836.2
35°	8721.2	7466.4	6333.0	5397.2	4550.6	3782.6	3084.0	2436.6	1868.0	1358.7	919.9
32.5°	9552.3	8154.6	6925.4	5846.5	4903.2	4059.4	3326.4	2642.6	2025.1	1477.1	998.7
30°	10460.6	8885.7	7493.9	6269.6	5251.6	4359.0	3562.6	2835.7	2172.2	1587.9	1077.8
27.5°	11351.4	9571.3	8047.6	6734.5	5614.7	4641.8	3782.6	3015.4	2309.0	1697.6	1167.4
25°	12222.5	10303.8	8636.3	7189.2	5950.8	4903.2	3985.9	3182.0	2449.4	1808.9	1249.9
22.5°	13128.2	11010.9	9177.1	7606.5	6258.8	5143.4	4187.0	3349.2	2584.6	1910.4	1325.1
20°	13952.6	11653.5	9667.9	7998.1	6576.2	5397.2	4382.9	3500.2	2706.5	2002.0	1393.0
17.5°	14715.1	12279.1	10180.7	8400.3	6884.6	5623.4	4557.3	3634.5	2814.9	2083.4	1453.2
15°	15491.3	12877.0	10644.4	8752.5	7154.4	5821.0	4709.6	3751.7	2909.5	2154.4	1505.7
12.5°	16156.4	13388.6	11040.7	9053.3	7384.5	5989.5	4839.4	3851.5	2989.9	2214.7	1550.4
10°	16706.3	13811.2	11367.6	9301.2	7574.1	6128.2	4946.1	3933.6	3056.1	2264.3	1587.1
7.5°	17137.8	14142.3	11623.7	9495.2	7722.4	6236.6	5029.6	3997.7	3107.7	2303.0	1615.7
5°	17448.0	14380.3	11807.5	9634.4	7828.7	6314.3	5089.3	4043.7	3144.7	2330.8	1636.2
2.5°	17634.9	14523.6	11918.2	9718.2	7892.7	6361.1	5125.3	4071.3	3167.0	2347.4	1648.5
0°	17697.4	14571.5	11955.2	9746.2	7914.1	6376.7	5137.3	4080.5	3174.4	2353.0	1652.6
-2.5°	17634.9	14523.6	11918.2	9718.2	7892.7	6361.1	5125.3	4071.3	3167.0	2347.4	1648.5
-5°	17448.0	14380.3	11807.5	9634.4	7828.7	6314.3	5089.3	4043.7	3144.7	2330.8	1636.2
-7.5°	17137.8	14142.3	11623.7	9495.2	7722.4	6236.6	5029.6	3997.7	3107.7	2303.0	1615.7
-10°	16706.3	13811.2	11367.6	9301.2	7574.1	6128.2	4946.1	3933.6	3056.1	2264.3	1587.1
-12.5°	16156.4	13388.6	11040.7	9053.3	7384.5	5989.5	4839.4	3851.5	2989.9	2214.7	1550.4
-15°	15491.3	12877.0	10644.4	8752.5	7154.4	5821.0	4709.6	3751.7	2909.5	2154.4	1505.7
-17.5°	14715.1	12279.1	10180.7	8400.3	6884.6	5623.4	4557.3	3634.5	2814.9	2083.4	1453.2
-20°	13952.6	11653.5	9667.9	7998.1	6576.2	5397.2	4382.9	3500.2	2706.5	2002.0	1393.0



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	13128.2	11010.9	9177.1	7606.5	6258.8	5143.4	4187.0	3349.2	2584.6	1910.4	1325.1
-25°	12222.5	10303.8	8636.3	7189.2	5950.8	4903.2	3985.9	3182.0	2449.4	1808.9	1249.9
-27.5°	11351.4	9571.3	8047.6	6734.5	5614.7	4641.8	3782.6	3015.4	2309.0	1697.6	1167.4
-30°	10460.6	8885.7	7493.9	6269.6	5251.6	4359.0	3562.6	2835.7	2172.2	1587.9	1077.8
-32.5°	9552.3	8154.6	6925.4	5846.5	4903.2	4059.4	3326.4	2642.6	2025.1	1477.1	998.7
-35°	8721.2	7466.4	6333.0	5397.2	4550.6	3782.6	3084.0	2436.6	1868.0	1358.7	919.9
-37.5°	7859.1	6783.2	5821.0	4954.7	4178.1	3489.9	2842.4	2238.1	1701.4	1233.0	836.2
-40°	7094.3	6128.2	5284.5	4530.5	3828.6	3182.0	2587.9	2041.9	1544.3	1100.3	747.7
-42.5°	6314.3	5528.2	4785.8	4087.6	3477.8	2889.1	2326.0	1836.1	1386.9	983.0	654.8
-45°	5651.0	4940.3	4290.5	3691.8	3118.3	2584.6	2088.8	1625.8	1222.4	871.5	569.8
-47.5°	4992.1	4392.6	3821.3	3282.8	2774.9	2280.9	1842.3	1435.0	1052.0	755.4	498.9
-50°	4392.6	3864.7	3368.6	2890.1	2420.1	2002.0	1596.6	1237.4	916.2	634.8	425.2
-52.5°	3821.3	3368.6	2928.6	2496.5	2098.6	1714.5	1371.9	1038.4	775.8	536.7	349.0
-55°	3282.8	2890.1	2496.5	2131.0	1778.6	1453.2	1140.6	877.6	631.1	446.7	274.0
-57.5°	2774.9	2420.1	2098.6	1778.6	1480.4	1194.7	939.1	712.5	517.3	354.3	227.7
-60°	2280.9	2002.0	1714.5	1453.2	1194.7	959.6	753.3	559.9	410.7	267.8	180.2
-62.5°	1842.3	1596.6	1371.9	1140.6	939.1	753.3	574.1	439.0	301.7	212.2	131.5
-65°	1435.0	1237.4	1038.4	877.6	712.5	559.9	439.0	315.9	228.4	155.6	91.1
-67.5°	1052.0	916.2	775.8	631.1	517.3	410.7	301.7	228.4	163.6	97.8	72.8
-70°	755.4	634.8	536.7	446.7	354.3	267.8	212.2	155.6	97.8	75.7	54.3
-72.5°	498.9	425.2	349.0	274.0	227.7	180.2	131.5	91.1	72.8	54.3	35.4
-75°	288.0	248.1	210.7	172.1	132.4	94.6	79.6	64.2	48.5	32.6	28.2
-77.5°	162.7	132.6	101.5	86.6	74.7	62.4	49.9	37.0	29.4	27.3	25.1
-80°	76.2	67.6	58.6	49.3	39.8	30.4	28.8	27.1	25.4	23.7	21.9
-82.5°	32.1	29.7	28.6	27.5	26.3	25.1	23.9	22.6	21.4	20.1	17.8
-85°	23.5	22.8	22.1	21.4	20.6	19.8	18.3	16.7	15.1	13.5	11.9
-87.5°	13.4	12.7	12.1	11.4	10.6	9.9	9.1	8.4	7.6	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



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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°	5.1	4.3	3.4	2.6	1.7	0.9	0.0
85°	10.2	8.6	6.9	5.2	3.4	1.7	0.0
82.5°	15.3	12.8	10.3	7.7	5.2	2.6	0.0
80°	20.1	17.1	13.7	10.3	6.9	3.4	0.0
77.5°	22.8	20.6	17.1	12.8	8.6	4.3	0.0
75°	25.5	22.8	20.1	15.3	10.2	5.1	0.0
72.5°	28.2	25.1	21.9	17.8	11.9	6.0	0.0
70°	32.6	27.3	23.7	20.1	13.5	6.8	0.0
67.5°	48.5	29.4	25.4	21.4	15.1	7.6	0.0
65°	64.2	37.0	27.1	22.6	16.7	8.4	0.0
62.5°	79.6	49.9	28.8	23.9	18.3	9.1	0.0
60°	94.6	62.4	30.4	25.1	19.8	9.9	0.0
57.5°	132.4	74.7	39.8	26.3	20.6	10.6	0.0
55°	172.1	86.6	49.3	27.5	21.4	11.4	0.0
52.5°	210.7	101.5	58.6	28.6	22.1	12.1	0.0
50°	248.1	132.6	67.6	29.7	22.8	12.7	0.0
47.5°	288.0	162.7	76.2	32.1	23.5	13.4	0.0
45°	348.6	191.6	84.5	38.3	24.2	14.0	0.0
42.5°	406.8	219.2	92.5	44.2	24.9	14.6	0.0
40°	462.4	245.7	106.8	49.9	25.5	15.2	0.0
37.5°	515.2	270.8	126.9	55.3	26.1	15.7	0.0
35°	565.1	306.1	145.8	60.4	26.6	16.2	0.0
32.5°	618.1	345.2	163.6	65.2	27.1	16.7	0.0
30°	681.0	381.6	180.3	69.7	27.6	17.1	0.0
27.5°	739.4	415.5	195.7	73.9	28.1	17.6	0.0
25°	793.1	446.6	209.9	77.7	28.5	17.9	0.0
22.5°	842.1	475.0	222.9	81.2	28.9	18.3	0.0
20°	886.3	500.6	234.5	84.3	29.2	18.6	0.0
17.5°	925.5	523.3	244.9	87.1	29.5	18.9	0.0
15°	959.6	543.1	253.9	89.5	29.8	19.1	0.0
12.5°	988.7	559.9	261.5	91.6	30.0	19.3	0.0
10°	1012.5	573.7	267.8	93.3	30.2	19.5	0.0
7.5°	1031.1	584.4	272.7	94.6	30.3	19.6	0.0
5°	1044.4	592.1	276.2	95.5	30.4	19.7	0.0
2.5°	1052.4	596.8	278.3	96.1	30.5	19.8	0.0
0°	1055.1	598.3	279.0	96.3	30.5	19.8	0.0
-2.5°	1052.4	596.8	278.3	96.1	30.5	19.8	0.0
-5°	1044.4	592.1	276.2	95.5	30.4	19.7	0.0
-7.5°	1031.1	584.4	272.7	94.6	30.3	19.6	0.0
-10°	1012.5	573.7	267.8	93.3	30.2	19.5	0.0
-12.5°	988.7	559.9	261.5	91.6	30.0	19.3	0.0
-15°	959.6	543.1	253.9	89.5	29.8	19.1	0.0
-17.5°	925.5	523.3	244.9	87.1	29.5	18.9	0.0
-20°	886.3	500.6	234.5	84.3	29.2	18.6	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	842.1	475.0	222.9	81.2	28.9	18.3	0.0
-25°	793.1	446.6	209.9	77.7	28.5	17.9	0.0
-27.5°	739.4	415.5	195.7	73.9	28.1	17.6	0.0
-30°	681.0	381.6	180.3	69.7	27.6	17.1	0.0
-32.5°	618.1	345.2	163.6	65.2	27.1	16.7	0.0
-35°	565.1	306.1	145.8	60.4	26.6	16.2	0.0
-37.5°	515.2	270.8	126.9	55.3	26.1	15.7	0.0
-40°	462.4	245.7	106.8	49.9	25.5	15.2	0.0
-42.5°	406.8	219.2	92.5	44.2	24.9	14.6	0.0
-45°	348.6	191.6	84.5	38.3	24.2	14.0	0.0
-47.5°	288.0	162.7	76.2	32.1	23.5	13.4	0.0
-50°	248.1	132.6	67.6	29.7	22.8	12.7	0.0
-52.5°	210.7	101.5	58.6	28.6	22.1	12.1	0.0
-55°	172.1	86.6	49.3	27.5	21.4	11.4	0.0
-57.5°	132.4	74.7	39.8	26.3	20.6	10.6	0.0
-60°	94.6	62.4	30.4	25.1	19.8	9.9	0.0
-62.5°	79.6	49.9	28.8	23.9	18.3	9.1	0.0
-65°	64.2	37.0	27.1	22.6	16.7	8.4	0.0
-67.5°	48.5	29.4	25.4	21.4	15.1	7.6	0.0
-70°	32.6	27.3	23.7	20.1	13.5	6.8	0.0
-72.5°	28.2	25.1	21.9	17.8	11.9	6.0	0.0
-75°	25.5	22.8	20.1	15.3	10.2	5.1	0.0
-77.5°	22.8	20.6	17.1	12.8	8.6	4.3	0.0
-80°	20.1	17.1	13.7	10.3	6.9	3.4	0.0
-82.5°	15.3	12.8	10.3	7.7	5.2	2.6	0.0
-85°	10.2	8.6	6.9	5.2	3.4	1.7	0.0
-87.5°	5.1	4.3	3.4	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)