

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: P1212178 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-57-70-1S-HEG**

Issue Date: 11/14/2025

Test Information

Test Method: LM-79-08
Report Number: P1212178 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-12)
Test Lab: INNOVATION CENTER
Issue Date: 11/14/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: EPHESUS
Catalog Number: EPH-LS12-1000R-57-70-1S-HEG
Description: EPHESUS LS12 LUMINAIRE
(12) 5700K, 70 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

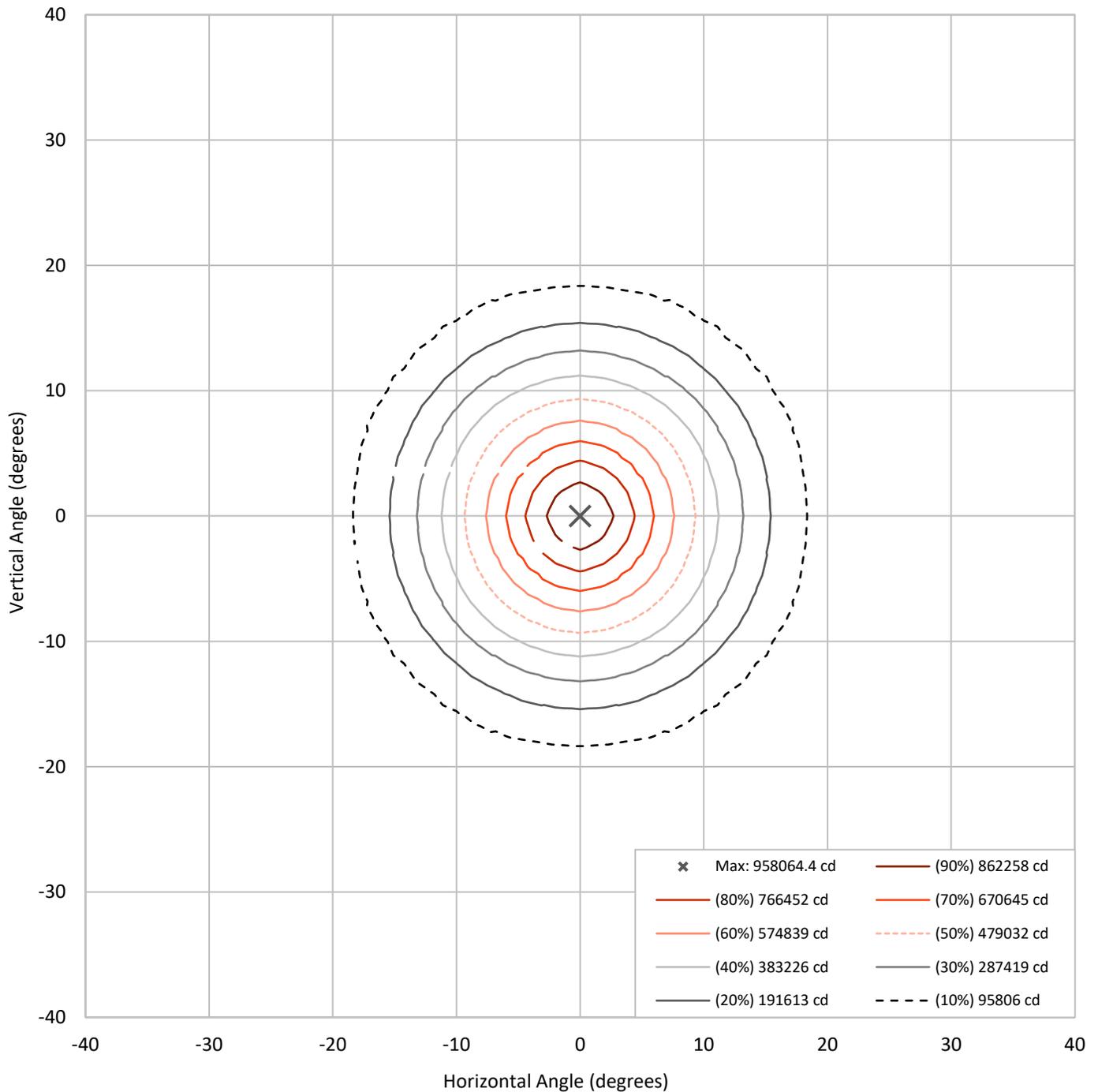
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	151297.4 lumens	Max Intensity:	958064.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	137.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	18.7°H x 18.7°V	Field Angle (10%):	36.7°H x 36.7°V
Beam Lumens:	54071.6 lumens	Field Lumens:	112305.3 lumens
Beam Efficiency:	35.7%	Field Efficiency:	74.2%
Input Watts (W):	1101.3		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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CATALOG NUMBER: EPH-LS12-1000R-57-70-1S-HEG

Iso-Candela Plot





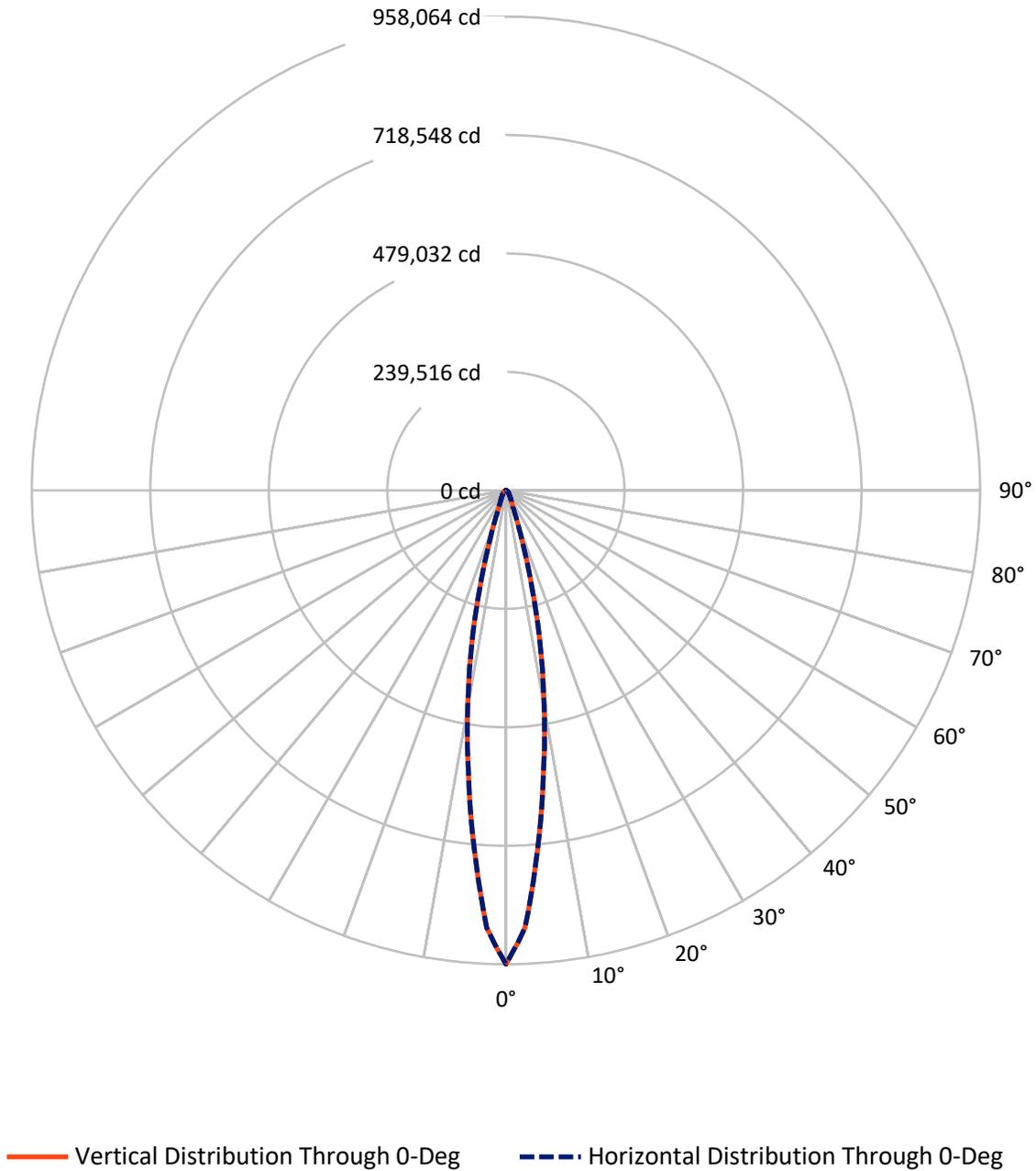
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Lumen Table

90	0.3	1.5		5.7		13.8		17.9		13.8		5.7		1.5		0.3
80	0.3	1.5		5.7		13.8		17.9		13.8		5.7		1.5		0.3
70	0.7	0.8	3.4	9.6	19.1	29.7	39.0	44.2	44.2	39.0	29.7	19.1	9.6	3.4	0.8	0.7
60		2.6	11.1	27.9	51.5	80.6	106.4	120.9	120.9	106.4	80.6	51.5	27.9	11.1	2.6	
50	1.9	5.9	22.8	54.9	104.5	162.5	214.6	243.0	243.0	214.6	162.5	104.5	54.9	22.8	5.9	1.9
40		10.2	36.5	90.5	172.6	256.8	336.8	398.9	398.9	336.8	256.8	172.6	90.5	36.5	10.2	
30	4.0	14.3	51.8	127.7	232.5	375.7	613.4	897.1	897.1	613.4	375.7	232.5	127.7	51.8	14.3	4.0
20		17.6	64.1	158.3	286.8	577.2	1870.0	5575.1	5575.1	1870.0	577.2	286.8	158.3	64.1	17.6	
10	4.9	19.4	70.7	173.6	329.9	821.4	5436.2	17415.0	17415.0	5436.2	821.4	329.9	173.6	70.7	19.4	4.9
0		19.4	70.7	173.6	329.9	821.4	5436.2	17415.0	17415.0	5436.2	821.4	329.9	173.6	70.7	19.4	
-10	4.0	17.6	64.1	158.3	286.8	577.2	1870.0	5575.1	5575.1	1870.0	577.2	286.8	158.3	64.1	17.6	4.0
-20		14.3	51.8	127.7	232.5	375.7	613.4	897.1	897.1	613.4	375.7	232.5	127.7	51.8	14.3	
-30	1.9	10.2	36.5	90.5	172.6	256.8	336.8	398.9	398.9	336.8	256.8	172.6	90.5	36.5	10.2	1.9
-40		5.9	22.8	54.9	104.5	162.5	214.6	243.0	243.0	214.6	162.5	104.5	54.9	22.8	5.9	
-50	0.7	2.6	11.1	27.9	51.5	80.6	106.4	120.9	120.9	106.4	80.6	51.5	27.9	11.1	2.6	0.7
-60		0.8	3.4	9.6	19.1	29.7	39.0	44.2	44.2	39.0	29.7	19.1	9.6	3.4	0.8	
-70	0.3	1.5		5.7		13.8		17.9		13.8		5.7		1.5		0.3
-80		1.5		5.7		13.8		17.9		13.8		5.7		1.5		
-90	0.3	1.5		5.7		13.8		17.9		13.8		5.7		1.5		0.3

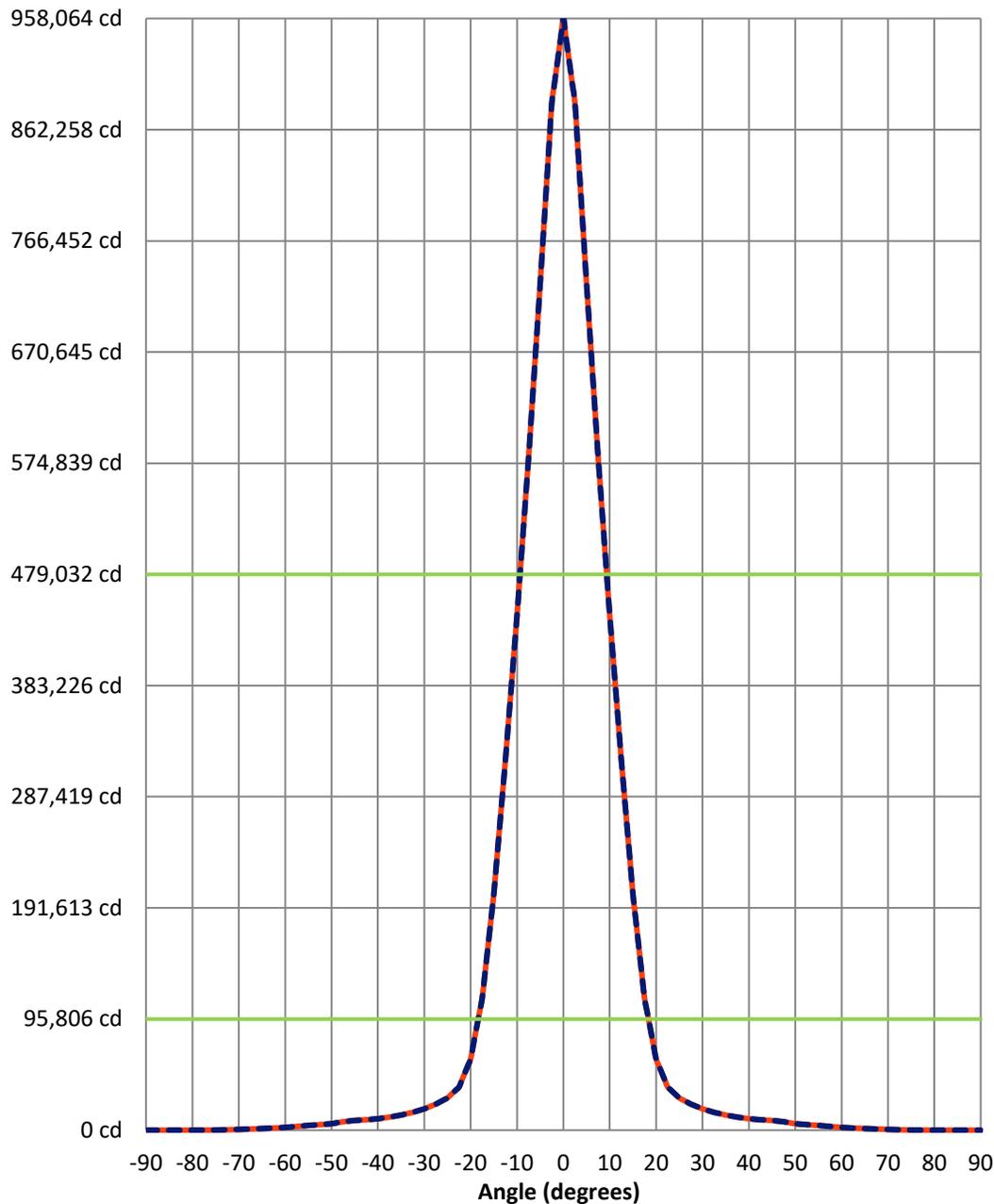
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 18.7°
 V Angle: 18.7°
 Lumens: 54071.6
 Efficiency: 35.7%

Field:
 H Angle: 36.7°
 V Angle: 36.7°
 Lumens: 112305.3
 Efficiency: 74.2%

Spill:
 Lumens: 38992
 Efficiency: 25.8%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.8	1.7	2.5	3.3	4.2	5.0	5.8	6.6	7.3	8.1
85°	0.0	1.7	3.3	5.0	6.7	8.3	9.9	11.5	13.1	14.7	16.2
82.5°	0.0	2.5	5.0	7.5	10.0	12.4	14.9	17.3	19.2	19.5	19.7
80°	0.0	3.3	6.7	10.0	13.3	16.5	19.3	19.6	19.9	20.2	20.6
77.5°	0.0	4.2	8.3	12.4	16.5	19.3	19.8	20.2	20.6	21.0	22.0
75°	0.0	5.0	9.9	14.9	19.3	19.8	20.3	20.8	21.5	23.4	25.3
72.5°	0.0	5.8	11.5	17.3	19.6	20.2	20.8	21.8	24.1	26.4	28.7
70°	0.0	6.6	13.1	19.2	19.9	20.6	21.5	24.1	26.8	29.5	36.2
67.5°	0.0	7.3	14.7	19.5	20.2	21.0	23.4	26.4	29.5	37.1	44.6
65°	0.0	8.1	16.2	19.7	20.6	22.0	25.3	28.7	36.2	44.6	55.6
62.5°	0.0	8.9	17.7	20.0	20.9	23.6	27.2	33.4	42.8	53.7	72.8
60°	0.0	9.6	19.2	20.2	21.2	25.1	29.1	39.0	49.2	68.8	89.6
57.5°	0.0	10.3	19.3	20.4	22.3	26.6	33.5	44.5	61.0	83.6	126.9
55°	0.0	11.0	19.5	20.6	23.5	28.1	38.1	49.9	73.8	104.1	173.3
52.5°	0.0	11.7	19.6	20.8	24.7	29.9	42.6	60.2	86.3	144.7	218.4
50°	0.0	12.3	19.8	21.1	25.8	33.5	46.9	70.8	105.2	184.1	283.4
47.5°	0.0	13.0	19.9	21.4	26.8	37.0	51.7	81.1	139.0	222.2	348.9
45°	0.0	13.6	20.0	22.2	27.9	40.4	60.2	90.9	171.6	278.5	412.0
42.5°	0.0	14.2	20.1	22.9	28.8	43.6	68.3	110.8	202.9	332.9	488.6
40°	0.0	14.7	20.3	23.6	30.5	46.6	76.0	136.8	238.0	385.0	564.6
37.5°	0.0	15.2	20.4	24.3	32.8	49.5	83.3	161.7	282.0	438.9	637.0
35°	0.0	15.7	20.5	24.9	35.0	54.3	90.3	185.2	323.6	500.4	717.0
32.5°	0.0	16.2	20.6	25.5	37.1	59.7	100.5	207.3	362.8	558.4	809.6
30°	0.0	16.6	20.7	26.0	39.0	64.8	118.1	230.6	399.5	612.7	896.5
27.5°	0.0	17.0	20.7	26.5	40.8	69.5	134.5	260.3	437.5	663.2	977.3
25°	0.0	17.4	20.8	27.0	42.5	73.8	149.6	287.6	478.6	722.8	1052.2
22.5°	0.0	17.7	20.9	27.4	44.0	77.8	163.3	312.5	516.1	783.5	1126.7
20°	0.0	18.0	21.0	27.8	45.3	81.3	175.7	335.0	549.9	838.4	1194.0
17.5°	0.0	18.3	21.0	28.2	46.5	84.5	186.7	354.9	579.9	887.1	1253.8
15°	0.0	18.5	21.1	28.5	47.6	87.2	196.3	372.3	606.1	929.7	1306.1
12.5°	0.0	18.7	21.1	28.7	48.5	89.6	204.5	387.1	628.4	965.8	1350.6
10°	0.0	18.9	21.1	28.9	49.2	91.5	211.1	399.2	646.7	995.6	1387.1
7.5°	0.0	19.0	21.2	29.1	49.8	93.0	216.4	408.7	661.0	1018.8	1415.7
5°	0.0	19.1	21.2	29.2	50.2	94.0	220.1	415.5	671.2	1035.5	1436.2
2.5°	0.0	19.2	21.2	29.3	50.4	94.7	222.4	419.5	677.3	1045.5	1448.5
0°	0.0	19.2	21.2	29.3	50.5	94.9	223.1	420.9	679.4	1048.8	1452.6
-2.5°	0.0	19.2	21.2	29.3	50.4	94.7	222.4	419.5	677.3	1045.5	1448.5
-5°	0.0	19.1	21.2	29.2	50.2	94.0	220.1	415.5	671.2	1035.5	1436.2
-7.5°	0.0	19.0	21.2	29.1	49.8	93.0	216.4	408.7	661.0	1018.8	1415.7
-10°	0.0	18.9	21.1	28.9	49.2	91.5	211.1	399.2	646.7	995.6	1387.1
-12.5°	0.0	18.7	21.1	28.7	48.5	89.6	204.5	387.1	628.4	965.8	1350.6
-15°	0.0	18.5	21.1	28.5	47.6	87.2	196.3	372.3	606.1	929.7	1306.1
-17.5°	0.0	18.3	21.0	28.2	46.5	84.5	186.7	354.9	579.9	887.1	1253.8
-20°	0.0	18.0	21.0	27.8	45.3	81.3	175.7	335.0	549.9	838.4	1194.0



REPORT NUMBER: P1212178 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	17.7	20.9	27.4	44.0	77.8	163.3	312.5	516.1	783.5	1126.7
-25°	0.0	17.4	20.8	27.0	42.5	73.8	149.6	287.6	478.6	722.8	1052.2
-27.5°	0.0	17.0	20.7	26.5	40.8	69.5	134.5	260.3	437.5	663.2	977.3
-30°	0.0	16.6	20.7	26.0	39.0	64.8	118.1	230.6	399.5	612.7	896.5
-32.5°	0.0	16.2	20.6	25.5	37.1	59.7	100.5	207.3	362.8	558.4	809.6
-35°	0.0	15.7	20.5	24.9	35.0	54.3	90.3	185.2	323.6	500.4	717.0
-37.5°	0.0	15.2	20.4	24.3	32.8	49.5	83.3	161.7	282.0	438.9	637.0
-40°	0.0	14.7	20.3	23.6	30.5	46.6	76.0	136.8	238.0	385.0	564.6
-42.5°	0.0	14.2	20.1	22.9	28.8	43.6	68.3	110.8	202.9	332.9	488.6
-45°	0.0	13.6	20.0	22.2	27.9	40.4	60.2	90.9	171.6	278.5	412.0
-47.5°	0.0	13.0	19.9	21.4	26.8	37.0	51.7	81.1	139.0	222.2	348.9
-50°	0.0	12.3	19.8	21.1	25.8	33.5	46.9	70.8	105.2	184.1	283.4
-52.5°	0.0	11.7	19.6	20.8	24.7	29.9	42.6	60.2	86.3	144.7	218.4
-55°	0.0	11.0	19.5	20.6	23.5	28.1	38.1	49.9	73.8	104.1	173.3
-57.5°	0.0	10.3	19.3	20.4	22.3	26.6	33.5	44.5	61.0	83.6	126.9
-60°	0.0	9.6	19.2	20.2	21.2	25.1	29.1	39.0	49.2	68.8	89.6
-62.5°	0.0	8.9	17.7	20.0	20.9	23.6	27.2	33.4	42.8	53.7	72.8
-65°	0.0	8.1	16.2	19.7	20.6	22.0	25.3	28.7	36.2	44.6	55.6
-67.5°	0.0	7.3	14.7	19.5	20.2	21.0	23.4	26.4	29.5	37.1	44.6
-70°	0.0	6.6	13.1	19.2	19.9	20.6	21.5	24.1	26.8	29.5	36.2
-72.5°	0.0	5.8	11.5	17.3	19.6	20.2	20.8	21.8	24.1	26.4	28.7
-75°	0.0	5.0	9.9	14.9	19.3	19.8	20.3	20.8	21.5	23.4	25.3
-77.5°	0.0	4.2	8.3	12.4	16.5	19.3	19.8	20.2	20.6	21.0	22.0
-80°	0.0	3.3	6.7	10.0	13.3	16.5	19.3	19.6	19.9	20.2	20.6
-82.5°	0.0	2.5	5.0	7.5	10.0	12.4	14.9	17.3	19.2	19.5	19.7
-85°	0.0	1.7	3.3	5.0	6.7	8.3	9.9	11.5	13.1	14.7	16.2
-87.5°	0.0	0.8	1.7	2.5	3.3	4.2	5.0	5.8	6.6	7.3	8.1
-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):

	-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°	8.9	9.6	10.3	11.0	11.7	12.3	13.0	13.6	14.2	14.7	15.2
85°	17.7	19.2	19.3	19.5	19.6	19.8	19.9	20.0	20.1	20.3	20.4
82.5°	20.0	20.2	20.4	20.6	20.8	21.1	21.4	22.2	22.9	23.6	24.3
80°	20.9	21.2	22.3	23.5	24.7	25.8	26.8	27.9	28.8	30.5	32.8
77.5°	23.6	25.1	26.6	28.1	29.9	33.5	37.0	40.4	43.6	46.6	49.5
75°	27.2	29.1	33.5	38.1	42.6	46.9	51.7	60.2	68.3	76.0	83.3
72.5°	33.4	39.0	44.5	49.9	60.2	70.8	81.1	90.9	110.8	136.8	161.7
70°	42.8	49.2	61.0	73.8	86.3	105.2	139.0	171.6	202.9	238.0	282.0
67.5°	53.7	68.8	83.6	104.1	144.7	184.1	222.2	278.5	332.9	385.0	438.9
65°	72.8	89.6	126.9	173.3	218.4	283.4	348.9	412.0	488.6	564.6	637.0
62.5°	91.5	138.4	190.5	251.4	328.0	402.4	490.9	581.9	669.4	785.1	899.5
60°	138.4	196.3	269.3	354.9	443.7	549.9	652.8	783.5	920.5	1052.2	1189.4
57.5°	190.5	269.3	363.9	467.4	585.5	709.6	869.2	1023.6	1184.0	1340.4	1491.5
55°	251.4	354.9	467.4	597.5	743.9	920.9	1097.1	1279.4	1455.4	1631.9	1800.9
52.5°	328.0	443.7	585.5	743.9	938.3	1135.3	1337.1	1536.2	1733.6	1939.3	2178.8
50°	402.4	549.9	709.6	920.9	1135.3	1356.4	1576.9	1795.1	2048.1	2315.9	2641.4
47.5°	490.9	652.8	869.2	1097.1	1337.1	1576.9	1815.8	2102.9	2399.0	2805.6	3209.3
45°	581.9	783.5	1023.6	1279.4	1536.2	1795.1	2102.9	2426.8	2888.4	3345.2	3820.7
42.5°	669.4	920.5	1184.0	1455.4	1733.6	2048.1	2399.0	2888.4	3391.7	3915.2	4350.5
40°	785.1	1052.2	1340.4	1631.9	1939.3	2315.9	2805.6	3345.2	3915.2	4386.9	4791.2
37.5°	899.5	1189.4	1491.5	1800.9	2178.8	2641.4	3209.3	3820.7	4350.5	4791.2	5299.6
35°	1008.1	1319.9	1639.9	1989.6	2407.3	3002.1	3633.3	4242.0	4717.2	5254.1	5987.1
32.5°	1116.5	1443.2	1780.3	2190.2	2716.4	3356.1	4039.9	4570.4	5118.7	5790.8	6993.4
30°	1221.8	1563.6	1924.6	2379.0	3016.6	3713.8	4353.5	4895.8	5518.0	6693.1	7733.5
27.5°	1319.9	1676.2	2086.7	2615.7	3303.7	4049.2	4626.2	5247.1	6199.6	7471.6	8318.2
25°	1410.5	1780.3	2236.7	2855.7	3591.7	4305.5	4893.9	5574.9	6945.4	7985.0	8664.4
22.5°	1495.0	1876.3	2374.2	3076.0	3856.4	4522.0	5174.5	6163.6	7529.0	8450.8	8933.2
20°	1573.1	1989.6	2532.1	3279.5	4096.5	4718.7	5430.0	6748.2	7933.9	8680.2	9269.3
17.5°	1642.5	2090.5	2694.9	3476.3	4267.8	4911.4	5700.5	7273.3	8298.4	8887.1	9615.2
15°	1703.2	2178.8	2837.4	3648.6	4409.8	5096.7	6126.7	7593.1	8534.1	9098.7	9926.6
12.5°	1754.9	2254.0	2958.8	3795.8	4531.1	5255.2	6491.8	7847.7	8679.3	9342.7	10336.2
10°	1797.4	2315.9	3058.9	3917.1	4631.2	5386.1	6793.7	8058.5	8799.7	9545.4	10677.4
7.5°	1830.7	2364.3	3137.2	4012.0	4709.6	5488.7	7030.6	8224.1	8894.4	9705.0	10946.6
5°	1854.5	2399.0	3193.3	4080.1	4765.9	5562.5	7200.9	8343.2	8962.7	9820.2	11141.0
2.5°	1868.8	2419.8	3227.1	4121.1	4799.8	5606.9	7303.5	8415.1	9003.8	9889.7	11258.6
0°	1873.6	2426.8	3238.4	4134.8	4811.1	5621.7	7337.8	8439.1	9017.6	9913.0	11297.9
-2.5°	1868.8	2419.8	3227.1	4121.1	4799.8	5606.9	7303.5	8415.1	9003.8	9889.7	11258.6
-5°	1854.5	2399.0	3193.3	4080.1	4765.9	5562.5	7200.9	8343.2	8962.7	9820.2	11141.0
-7.5°	1830.7	2364.3	3137.2	4012.0	4709.6	5488.7	7030.6	8224.1	8894.4	9705.0	10946.6
-10°	1797.4	2315.9	3058.9	3917.1	4631.2	5386.1	6793.7	8058.5	8799.7	9545.4	10677.4
-12.5°	1754.9	2254.0	2958.8	3795.8	4531.1	5255.2	6491.8	7847.7	8679.3	9342.7	10336.2
-15°	1703.2	2178.8	2837.4	3648.6	4409.8	5096.7	6126.7	7593.1	8534.1	9098.7	9926.6
-17.5°	1642.5	2090.5	2694.9	3476.3	4267.8	4911.4	5700.5	7273.3	8298.4	8887.1	9615.2
-20°	1573.1	1989.6	2532.1	3279.5	4096.5	4718.7	5430.0	6748.2	7933.9	8680.2	9269.3



REPORT NUMBER: P1212178 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1495.0	1876.3	2374.2	3076.0	3856.4	4522.0	5174.5	6163.6	7529.0	8450.8	8933.2
-25°	1410.5	1780.3	2236.7	2855.7	3591.7	4305.5	4893.9	5574.9	6945.4	7985.0	8664.4
-27.5°	1319.9	1676.2	2086.7	2615.7	3303.7	4049.2	4626.2	5247.1	6199.6	7471.6	8318.2
-30°	1221.8	1563.6	1924.6	2379.0	3016.6	3713.8	4353.5	4895.8	5518.0	6693.1	7733.5
-32.5°	1116.5	1443.2	1780.3	2190.2	2716.4	3356.1	4039.9	4570.4	5118.7	5790.8	6993.4
-35°	1008.1	1319.9	1639.9	1989.6	2407.3	3002.1	3633.3	4242.0	4717.2	5254.1	5987.1
-37.5°	899.5	1189.4	1491.5	1800.9	2178.8	2641.4	3209.3	3820.7	4350.5	4791.2	5299.6
-40°	785.1	1052.2	1340.4	1631.9	1939.3	2315.9	2805.6	3345.2	3915.2	4386.9	4791.2
-42.5°	669.4	920.5	1184.0	1455.4	1733.6	2048.1	2399.0	2888.4	3391.7	3915.2	4350.5
-45°	581.9	783.5	1023.6	1279.4	1536.2	1795.1	2102.9	2426.8	2888.4	3345.2	3820.7
-47.5°	490.9	652.8	869.2	1097.1	1337.1	1576.9	1815.8	2102.9	2399.0	2805.6	3209.3
-50°	402.4	549.9	709.6	920.9	1135.3	1356.4	1576.9	1795.1	2048.1	2315.9	2641.4
-52.5°	328.0	443.7	585.5	743.9	938.3	1135.3	1337.1	1536.2	1733.6	1939.3	2178.8
-55°	251.4	354.9	467.4	597.5	743.9	920.9	1097.1	1279.4	1455.4	1631.9	1800.9
-57.5°	190.5	269.3	363.9	467.4	585.5	709.6	869.2	1023.6	1184.0	1340.4	1491.5
-60°	138.4	196.3	269.3	354.9	443.7	549.9	652.8	783.5	920.5	1052.2	1189.4
-62.5°	91.5	138.4	190.5	251.4	328.0	402.4	490.9	581.9	669.4	785.1	899.5
-65°	72.8	89.6	126.9	173.3	218.4	283.4	348.9	412.0	488.6	564.6	637.0
-67.5°	53.7	68.8	83.6	104.1	144.7	184.1	222.2	278.5	332.9	385.0	438.9
-70°	42.8	49.2	61.0	73.8	86.3	105.2	139.0	171.6	202.9	238.0	282.0
-72.5°	33.4	39.0	44.5	49.9	60.2	70.8	81.1	90.9	110.8	136.8	161.7
-75°	27.2	29.1	33.5	38.1	42.6	46.9	51.7	60.2	68.3	76.0	83.3
-77.5°	23.6	25.1	26.6	28.1	29.9	33.5	37.0	40.4	43.6	46.6	49.5
-80°	20.9	21.2	22.3	23.5	24.7	25.8	26.8	27.9	28.8	30.5	32.8
-82.5°	20.0	20.2	20.4	20.6	20.8	21.1	21.4	22.2	22.9	23.6	24.3
-85°	17.7	19.2	19.3	19.5	19.6	19.8	19.9	20.0	20.1	20.3	20.4
-87.5°	8.9	9.6	10.3	11.0	11.7	12.3	13.0	13.6	14.2	14.7	15.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1212178 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.7	16.2	16.6	17.0	17.4	17.7	18.0	18.3	18.5	18.7	18.9
85°	20.5	20.6	20.7	20.7	20.8	20.9	21.0	21.0	21.1	21.1	21.1
82.5°	24.9	25.5	26.0	26.5	27.0	27.4	27.8	28.2	28.5	28.7	28.9
80°	35.0	37.1	39.0	40.8	42.5	44.0	45.3	46.5	47.6	48.5	49.2
77.5°	54.3	59.7	64.8	69.5	73.8	77.8	81.3	84.5	87.2	89.6	91.5
75°	90.3	100.5	118.1	134.5	149.6	163.3	175.7	186.7	196.3	204.5	211.1
72.5°	185.2	207.3	230.6	260.3	287.6	312.5	335.0	354.9	372.3	387.1	399.2
70°	323.6	362.8	399.5	437.5	478.6	516.1	549.9	579.9	606.1	628.4	646.7
67.5°	500.4	558.4	612.7	663.2	722.8	783.5	838.4	887.1	929.7	965.8	995.6
65°	717.0	809.6	896.5	977.3	1052.2	1126.7	1194.0	1253.8	1306.1	1350.6	1387.1
62.5°	1008.1	1116.5	1221.8	1319.9	1410.5	1495.0	1573.1	1642.5	1703.2	1754.9	1797.4
60°	1319.9	1443.2	1563.6	1676.2	1780.3	1876.3	1989.6	2090.5	2178.8	2254.0	2315.9
57.5°	1639.9	1780.3	1924.6	2086.7	2236.7	2374.2	2532.1	2694.9	2837.4	2958.8	3058.9
55°	1989.6	2190.2	2379.0	2615.7	2855.7	3076.0	3279.5	3476.3	3648.6	3795.8	3917.1
52.5°	2407.3	2716.4	3016.6	3303.7	3591.7	3856.4	4096.5	4267.8	4409.8	4531.1	4631.2
50°	3002.1	3356.1	3713.8	4049.2	4305.5	4522.0	4718.7	4911.4	5096.7	5255.2	5386.1
47.5°	3633.3	4039.9	4353.5	4626.2	4893.9	5174.5	5430.0	5700.5	6126.7	6491.8	6793.7
45°	4242.0	4570.4	4895.8	5247.1	5574.9	6163.6	6748.2	7273.3	7593.1	7847.7	8058.5
42.5°	4717.2	5118.7	5518.0	6199.6	6945.4	7529.0	7933.9	8298.4	8534.1	8679.3	8799.7
40°	5254.1	5790.8	6693.1	7471.6	7985.0	8450.8	8680.2	8887.1	9098.7	9342.7	9545.4
37.5°	5987.1	6993.4	7733.5	8318.2	8664.4	8933.2	9269.3	9615.2	9926.6	10336.2	10677.4
35°	7094.2	7865.8	8482.3	8809.8	9174.0	9620.3	10096.7	10674.2	11188.0	11732.6	12214.6
32.5°	7865.8	8518.1	8883.3	9349.2	9859.7	10570.4	11254.9	12051.3	12773.6	13489.1	14165.3
30°	8482.3	8883.3	9408.1	10018.4	10860.3	11757.9	12712.9	13727.2	14734.5	15677.6	16643.9
27.5°	8809.8	9349.2	10018.4	10958.0	12020.0	13126.1	14445.9	15737.3	17166.6	18420.2	19850.2
25°	9174.0	9859.7	10860.3	12020.0	13302.4	14812.2	16482.7	18196.1	20215.0	22068.0	23979.6
22.5°	9620.3	10570.4	11757.9	13126.1	14812.2	16734.8	18827.3	21329.4	23941.9	26576.0	29621.9
20°	10096.7	11254.9	12712.9	14445.9	16482.7	18827.3	21707.3	24973.3	28503.2	33630.2	39430.6
17.5°	10674.2	12051.3	13727.2	15737.3	18196.1	21329.4	24973.3	29483.2	35708.2	47927.0	60651.1
15°	11188.0	12773.6	14734.5	17166.6	20215.0	23941.9	28503.2	35708.2	50841.3	73310.8	104184.4
12.5°	11732.6	13489.1	15677.6	18420.2	22068.0	26576.0	33630.2	47927.0	73310.8	111683.0	169239.2
10°	12214.6	14165.3	16643.9	19850.2	23979.6	29621.9	39430.6	60651.1	104184.4	169239.2	243047.3
7.5°	12595.9	14701.7	17412.9	20994.6	25620.7	32853.7	48755.3	82559.4	141478.2	223605.0	320204.5
5°	12871.9	15090.6	17972.1	21829.8	26823.7	35236.2	55683.0	99669.2	175146.2	273899.3	384163.5
2.5°	13038.9	15326.5	18311.9	22338.3	27558.6	36697.9	59957.9	110313.7	196344.5	307432.5	428103.6
0°	13094.8	15405.5	18425.8	22509.1	27805.8	37190.8	61403.8	113930.4	203596.3	319105.5	443695.8
-2.5°	13038.9	15326.5	18311.9	22338.3	27558.6	36697.9	59957.9	110313.7	196344.5	307432.5	428103.6
-5°	12871.9	15090.6	17972.1	21829.8	26823.7	35236.2	55683.0	99669.2	175146.2	273899.3	384163.5
-7.5°	12595.9	14701.7	17412.9	20994.6	25620.7	32853.7	48755.3	82559.4	141478.2	223605.0	320204.5
-10°	12214.6	14165.3	16643.9	19850.2	23979.6	29621.9	39430.6	60651.1	104184.4	169239.2	243047.3
-12.5°	11732.6	13489.1	15677.6	18420.2	22068.0	26576.0	33630.2	47927.0	73310.8	111683.0	169239.2
-15°	11188.0	12773.6	14734.5	17166.6	20215.0	23941.9	28503.2	35708.2	50841.3	73310.8	104184.4
-17.5°	10674.2	12051.3	13727.2	15737.3	18196.1	21329.4	24973.3	29483.2	35708.2	47927.0	60651.1
-20°	10096.7	11254.9	12712.9	14445.9	16482.7	18827.3	21707.3	24973.3	28503.2	33630.2	39430.6



REPORT NUMBER: P1212178 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9620.3	10570.4	11757.9	13126.1	14812.2	16734.8	18827.3	21329.4	23941.9	26576.0	29621.9
-25°	9174.0	9859.7	10860.3	12020.0	13302.4	14812.2	16482.7	18196.1	20215.0	22068.0	23979.6
-27.5°	8809.8	9349.2	10018.4	10958.0	12020.0	13126.1	14445.9	15737.3	17166.6	18420.2	19850.2
-30°	8482.3	8883.3	9408.1	10018.4	10860.3	11757.9	12712.9	13727.2	14734.5	15677.6	16643.9
-32.5°	7865.8	8518.1	8883.3	9349.2	9859.7	10570.4	11254.9	12051.3	12773.6	13489.1	14165.3
-35°	7094.2	7865.8	8482.3	8809.8	9174.0	9620.3	10096.7	10674.2	11188.0	11732.6	12214.6
-37.5°	5987.1	6993.4	7733.5	8318.2	8664.4	8933.2	9269.3	9615.2	9926.6	10336.2	10677.4
-40°	5254.1	5790.8	6693.1	7471.6	7985.0	8450.8	8680.2	8887.1	9098.7	9342.7	9545.4
-42.5°	4717.2	5118.7	5518.0	6199.6	6945.4	7529.0	7933.9	8298.4	8534.1	8679.3	8799.7
-45°	4242.0	4570.4	4895.8	5247.1	5574.9	6163.6	6748.2	7273.3	7593.1	7847.7	8058.5
-47.5°	3633.3	4039.9	4353.5	4626.2	4893.9	5174.5	5430.0	5700.5	6126.7	6491.8	6793.7
-50°	3002.1	3356.1	3713.8	4049.2	4305.5	4522.0	4718.7	4911.4	5096.7	5255.2	5386.1
-52.5°	2407.3	2716.4	3016.6	3303.7	3591.7	3856.4	4096.5	4267.8	4409.8	4531.1	4631.2
-55°	1989.6	2190.2	2379.0	2615.7	2855.7	3076.0	3279.5	3476.3	3648.6	3795.8	3917.1
-57.5°	1639.9	1780.3	1924.6	2086.7	2236.7	2374.2	2532.1	2694.9	2837.4	2958.8	3058.9
-60°	1319.9	1443.2	1563.6	1676.2	1780.3	1876.3	1989.6	2090.5	2178.8	2254.0	2315.9
-62.5°	1008.1	1116.5	1221.8	1319.9	1410.5	1495.0	1573.1	1642.5	1703.2	1754.9	1797.4
-65°	717.0	809.6	896.5	977.3	1052.2	1126.7	1194.0	1253.8	1306.1	1350.6	1387.1
-67.5°	500.4	558.4	612.7	663.2	722.8	783.5	838.4	887.1	929.7	965.8	995.6
-70°	323.6	362.8	399.5	437.5	478.6	516.1	549.9	579.9	606.1	628.4	646.7
-72.5°	185.2	207.3	230.6	260.3	287.6	312.5	335.0	354.9	372.3	387.1	399.2
-75°	90.3	100.5	118.1	134.5	149.6	163.3	175.7	186.7	196.3	204.5	211.1
-77.5°	54.3	59.7	64.8	69.5	73.8	77.8	81.3	84.5	87.2	89.6	91.5
-80°	35.0	37.1	39.0	40.8	42.5	44.0	45.3	46.5	47.6	48.5	49.2
-82.5°	24.9	25.5	26.0	26.5	27.0	27.4	27.8	28.2	28.5	28.7	28.9
-85°	20.5	20.6	20.7	20.7	20.8	20.9	21.0	21.0	21.1	21.1	21.1
-87.5°	15.7	16.2	16.6	17.0	17.4	17.7	18.0	18.3	18.5	18.7	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: P1212178 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-100R-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.0	19.1	19.2	19.2	19.2	19.1	19.0	18.9	18.7	18.5	18.3
85°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.1	21.1	21.1	21.0
82.5°	29.1	29.2	29.3	29.3	29.3	29.2	29.1	28.9	28.7	28.5	28.2
80°	49.8	50.2	50.4	50.5	50.4	50.2	49.8	49.2	48.5	47.6	46.5
77.5°	93.0	94.0	94.7	94.9	94.7	94.0	93.0	91.5	89.6	87.2	84.5
75°	216.4	220.1	222.4	223.1	222.4	220.1	216.4	211.1	204.5	196.3	186.7
72.5°	408.7	415.5	419.5	420.9	419.5	415.5	408.7	399.2	387.1	372.3	354.9
70°	661.0	671.2	677.3	679.4	677.3	671.2	661.0	646.7	628.4	606.1	579.9
67.5°	1018.8	1035.5	1045.5	1048.8	1045.5	1035.5	1018.8	995.6	965.8	929.7	887.1
65°	1415.7	1436.2	1448.5	1452.6	1448.5	1436.2	1415.7	1387.1	1350.6	1306.1	1253.8
62.5°	1830.7	1854.5	1868.8	1873.6	1868.8	1854.5	1830.7	1797.4	1754.9	1703.2	1642.5
60°	2364.3	2399.0	2419.8	2426.8	2419.8	2399.0	2364.3	2315.9	2254.0	2178.8	2090.5
57.5°	3137.2	3193.3	3227.1	3238.4	3227.1	3193.3	3137.2	3058.9	2958.8	2837.4	2694.9
55°	4012.0	4080.1	4121.1	4134.8	4121.1	4080.1	4012.0	3917.1	3795.8	3648.6	3476.3
52.5°	4709.6	4765.9	4799.8	4811.1	4799.8	4765.9	4709.6	4631.2	4531.1	4409.8	4267.8
50°	5488.7	5562.5	5606.9	5621.7	5606.9	5562.5	5488.7	5386.1	5255.2	5096.7	4911.4
47.5°	7030.6	7200.9	7303.5	7337.8	7303.5	7200.9	7030.6	6793.7	6491.8	6126.7	5700.5
45°	8224.1	8343.2	8415.1	8439.1	8415.1	8343.2	8224.1	8058.5	7847.7	7593.1	7273.3
42.5°	8894.4	8962.7	9003.8	9017.6	9003.8	8962.7	8894.4	8799.7	8679.3	8534.1	8298.4
40°	9705.0	9820.2	9889.7	9913.0	9889.7	9820.2	9705.0	9545.4	9342.7	9098.7	8887.1
37.5°	10946.6	11141.0	11258.6	11297.9	11258.6	11141.0	10946.6	10677.4	10336.2	9926.6	9615.2
35°	12595.9	12871.9	13038.9	13094.8	13038.9	12871.9	12595.9	12214.6	11732.6	11188.0	10674.2
32.5°	14701.7	15090.6	15326.5	15405.5	15326.5	15090.6	14701.7	14165.3	13489.1	12773.6	12051.3
30°	17412.9	17972.1	18311.9	18425.8	18311.9	17972.1	17412.9	16643.9	15677.6	14734.5	13727.2
27.5°	20994.6	21829.8	22338.3	22509.1	22338.3	21829.8	20994.6	19850.2	18420.2	17166.6	15737.3
25°	25620.7	26823.7	27558.6	27805.8	27558.6	26823.7	25620.7	23979.6	22068.0	20215.0	18196.1
22.5°	32853.7	35236.2	36697.9	37190.8	36697.9	35236.2	32853.7	29621.9	26576.0	23941.9	21329.4
20°	48755.3	55683.0	59957.9	61403.8	59957.9	55683.0	48755.3	39430.6	33630.2	28503.2	24973.3
17.5°	82559.4	99669.2	110313.7	113930.4	110313.7	99669.2	82559.4	60651.1	47927.0	35708.2	29483.2
15°	141478.2	175146.2	196344.5	203596.3	196344.5	175146.2	141478.2	104184.4	73310.8	50841.3	35708.2
12.5°	223605.0	273899.3	307432.5	319105.5	307432.5	273899.3	223605.0	169239.2	111683.0	73310.8	47927.0
10°	320204.5	384163.5	428103.6	443695.8	428103.6	384163.5	320204.5	243047.3	169239.2	104184.4	60651.1
7.5°	413429.8	496401.1	557522.4	579989.0	557522.4	496401.1	413429.8	320204.5	223605.0	141478.2	82559.4
5°	496401.1	604125.7	693501.2	729812.0	693501.2	604125.7	496401.1	384163.5	273899.3	175146.2	99669.2
2.5°	557522.4	693501.2	824421.4	885264.8	824421.4	693501.2	557522.4	428103.6	307432.5	196344.5	110313.7
0°	579989.0	729812.0	885264.8	958064.4	885264.8	729812.0	579989.0	443695.8	319105.5	203596.3	113930.4
-2.5°	557522.4	693501.2	824421.4	885264.8	824421.4	693501.2	557522.4	428103.6	307432.5	196344.5	110313.7
-5°	496401.1	604125.7	693501.2	729812.0	693501.2	604125.7	496401.1	384163.5	273899.3	175146.2	99669.2
-7.5°	413429.8	496401.1	557522.4	579989.0	557522.4	496401.1	413429.8	320204.5	223605.0	141478.2	82559.4
-10°	320204.5	384163.5	428103.6	443695.8	428103.6	384163.5	320204.5	243047.3	169239.2	104184.4	60651.1
-12.5°	223605.0	273899.3	307432.5	319105.5	307432.5	273899.3	223605.0	169239.2	111683.0	73310.8	47927.0
-15°	141478.2	175146.2	196344.5	203596.3	196344.5	175146.2	141478.2	104184.4	73310.8	50841.3	35708.2
-17.5°	82559.4	99669.2	110313.7	113930.4	110313.7	99669.2	82559.4	60651.1	47927.0	35708.2	29483.2
-20°	48755.3	55683.0	59957.9	61403.8	59957.9	55683.0	48755.3	39430.6	33630.2	28503.2	24973.3



REPORT NUMBER: P1212178 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	32853.7	35236.2	36697.9	37190.8	36697.9	35236.2	32853.7	29621.9	26576.0	23941.9	21329.4
-25°	25620.7	26823.7	27558.6	27805.8	27558.6	26823.7	25620.7	23979.6	22068.0	20215.0	18196.1
-27.5°	20994.6	21829.8	22338.3	22509.1	22338.3	21829.8	20994.6	19850.2	18420.2	17166.6	15737.3
-30°	17412.9	17972.1	18311.9	18425.8	18311.9	17972.1	17412.9	16643.9	15677.6	14734.5	13727.2
-32.5°	14701.7	15090.6	15326.5	15405.5	15326.5	15090.6	14701.7	14165.3	13489.1	12773.6	12051.3
-35°	12595.9	12871.9	13038.9	13094.8	13038.9	12871.9	12595.9	12214.6	11732.6	11188.0	10674.2
-37.5°	10946.6	11141.0	11258.6	11297.9	11258.6	11141.0	10946.6	10677.4	10336.2	9926.6	9615.2
-40°	9705.0	9820.2	9889.7	9913.0	9889.7	9820.2	9705.0	9545.4	9342.7	9098.7	8887.1
-42.5°	8894.4	8962.7	9003.8	9017.6	9003.8	8962.7	8894.4	8799.7	8679.3	8534.1	8298.4
-45°	8224.1	8343.2	8415.1	8439.1	8415.1	8343.2	8224.1	8058.5	7847.7	7593.1	7273.3
-47.5°	7030.6	7200.9	7303.5	7337.8	7303.5	7200.9	7030.6	6793.7	6491.8	6126.7	5700.5
-50°	5488.7	5562.5	5606.9	5621.7	5606.9	5562.5	5488.7	5386.1	5255.2	5096.7	4911.4
-52.5°	4709.6	4765.9	4799.8	4811.1	4799.8	4765.9	4709.6	4631.2	4531.1	4409.8	4267.8
-55°	4012.0	4080.1	4121.1	4134.8	4121.1	4080.1	4012.0	3917.1	3795.8	3648.6	3476.3
-57.5°	3137.2	3193.3	3227.1	3238.4	3227.1	3193.3	3137.2	3058.9	2958.8	2837.4	2694.9
-60°	2364.3	2399.0	2419.8	2426.8	2419.8	2399.0	2364.3	2315.9	2254.0	2178.8	2090.5
-62.5°	1830.7	1854.5	1868.8	1873.6	1868.8	1854.5	1830.7	1797.4	1754.9	1703.2	1642.5
-65°	1415.7	1436.2	1448.5	1452.6	1448.5	1436.2	1415.7	1387.1	1350.6	1306.1	1253.8
-67.5°	1018.8	1035.5	1045.5	1048.8	1045.5	1035.5	1018.8	995.6	965.8	929.7	887.1
-70°	661.0	671.2	677.3	679.4	677.3	671.2	661.0	646.7	628.4	606.1	579.9
-72.5°	408.7	415.5	419.5	420.9	419.5	415.5	408.7	399.2	387.1	372.3	354.9
-75°	216.4	220.1	222.4	223.1	222.4	220.1	216.4	211.1	204.5	196.3	186.7
-77.5°	93.0	94.0	94.7	94.9	94.7	94.0	93.0	91.5	89.6	87.2	84.5
-80°	49.8	50.2	50.4	50.5	50.4	50.2	49.8	49.2	48.5	47.6	46.5
-82.5°	29.1	29.2	29.3	29.3	29.3	29.2	29.1	28.9	28.7	28.5	28.2
-85°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.1	21.1	21.1	21.0
-87.5°	19.0	19.1	19.2	19.2	19.2	19.1	19.0	18.9	18.7	18.5	18.3
-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: P1212178 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.0	17.7	17.4	17.0	16.6	16.2	15.7	15.2	14.7	14.2	13.6
85°	21.0	20.9	20.8	20.7	20.7	20.6	20.5	20.4	20.3	20.1	20.0
82.5°	27.8	27.4	27.0	26.5	26.0	25.5	24.9	24.3	23.6	22.9	22.2
80°	45.3	44.0	42.5	40.8	39.0	37.1	35.0	32.8	30.5	28.8	27.9
77.5°	81.3	77.8	73.8	69.5	64.8	59.7	54.3	49.5	46.6	43.6	40.4
75°	175.7	163.3	149.6	134.5	118.1	100.5	90.3	83.3	76.0	68.3	60.2
72.5°	335.0	312.5	287.6	260.3	230.6	207.3	185.2	161.7	136.8	110.8	90.9
70°	549.9	516.1	478.6	437.5	399.5	362.8	323.6	282.0	238.0	202.9	171.6
67.5°	838.4	783.5	722.8	663.2	612.7	558.4	500.4	438.9	385.0	332.9	278.5
65°	1194.0	1126.7	1052.2	977.3	896.5	809.6	717.0	637.0	564.6	488.6	412.0
62.5°	1573.1	1495.0	1410.5	1319.9	1221.8	1116.5	1008.1	899.5	785.1	669.4	581.9
60°	1989.6	1876.3	1780.3	1676.2	1563.6	1443.2	1319.9	1189.4	1052.2	920.5	783.5
57.5°	2532.1	2374.2	2236.7	2086.7	1924.6	1780.3	1639.9	1491.5	1340.4	1184.0	1023.6
55°	3279.5	3076.0	2855.7	2615.7	2379.0	2190.2	1989.6	1800.9	1631.9	1455.4	1279.4
52.5°	4096.5	3856.4	3591.7	3303.7	3016.6	2716.4	2407.3	2178.8	1939.3	1733.6	1536.2
50°	4718.7	4522.0	4305.5	4049.2	3713.8	3356.1	3002.1	2641.4	2315.9	2048.1	1795.1
47.5°	5430.0	5174.5	4893.9	4626.2	4353.5	4039.9	3633.3	3209.3	2805.6	2399.0	2102.9
45°	6748.2	6163.6	5574.9	5247.1	4895.8	4570.4	4242.0	3820.7	3345.2	2888.4	2426.8
42.5°	7933.9	7529.0	6945.4	6199.6	5518.0	5118.7	4717.2	4350.5	3915.2	3391.7	2888.4
40°	8680.2	8450.8	7985.0	7471.6	6693.1	5790.8	5254.1	4791.2	4386.9	3915.2	3345.2
37.5°	9269.3	8933.2	8664.4	8318.2	7733.5	6993.4	5987.1	5299.6	4791.2	4350.5	3820.7
35°	10096.7	9620.3	9174.0	8809.8	8482.3	7865.8	7094.2	5987.1	5254.1	4717.2	4242.0
32.5°	11254.9	10570.4	9859.7	9349.2	8883.3	8518.1	7865.8	6993.4	5790.8	5118.7	4570.4
30°	12712.9	11757.9	10860.3	10018.4	9408.1	8883.3	8482.3	7733.5	6693.1	5518.0	4895.8
27.5°	14445.9	13126.1	12020.0	10958.0	10018.4	9349.2	8809.8	8318.2	7471.6	6199.6	5247.1
25°	16482.7	14812.2	13302.4	12020.0	10860.3	9859.7	9174.0	8664.4	7985.0	6945.4	5574.9
22.5°	18827.3	16734.8	14812.2	13126.1	11757.9	10570.4	9620.3	8933.2	8450.8	7529.0	6163.6
20°	21707.3	18827.3	16482.7	14445.9	12712.9	11254.9	10096.7	9269.3	8680.2	7933.9	6748.2
17.5°	24973.3	21329.4	18196.1	15737.3	13727.2	12051.3	10674.2	9615.2	8887.1	8298.4	7273.3
15°	28503.2	23941.9	20215.0	17166.6	14734.5	12773.6	11188.0	9926.6	9098.7	8534.1	7593.1
12.5°	33630.2	26576.0	22068.0	18420.2	15677.6	13489.1	11732.6	10336.2	9342.7	8679.3	7847.7
10°	39430.6	29621.9	23979.6	19850.2	16643.9	14165.3	12214.6	10677.4	9545.4	8799.7	8058.5
7.5°	48755.3	32853.7	25620.7	20994.6	17412.9	14701.7	12595.9	10946.6	9705.0	8894.4	8224.1
5°	55683.0	35236.2	26823.7	21829.8	17972.1	15090.6	12871.9	11141.0	9820.2	8962.7	8343.2
2.5°	59957.9	36697.9	27558.6	22338.3	18311.9	15326.5	13038.9	11258.6	9889.7	9003.8	8415.1
0°	61403.8	37190.8	27805.8	22509.1	18425.8	15405.5	13094.8	11297.9	9913.0	9017.6	8439.1
-2.5°	59957.9	36697.9	27558.6	22338.3	18311.9	15326.5	13038.9	11258.6	9889.7	9003.8	8415.1
-5°	55683.0	35236.2	26823.7	21829.8	17972.1	15090.6	12871.9	11141.0	9820.2	8962.7	8343.2
-7.5°	48755.3	32853.7	25620.7	20994.6	17412.9	14701.7	12595.9	10946.6	9705.0	8894.4	8224.1
-10°	39430.6	29621.9	23979.6	19850.2	16643.9	14165.3	12214.6	10677.4	9545.4	8799.7	8058.5
-12.5°	33630.2	26576.0	22068.0	18420.2	15677.6	13489.1	11732.6	10336.2	9342.7	8679.3	7847.7
-15°	28503.2	23941.9	20215.0	17166.6	14734.5	12773.6	11188.0	9926.6	9098.7	8534.1	7593.1
-17.5°	24973.3	21329.4	18196.1	15737.3	13727.2	12051.3	10674.2	9615.2	8887.1	8298.4	7273.3
-20°	21707.3	18827.3	16482.7	14445.9	12712.9	11254.9	10096.7	9269.3	8680.2	7933.9	6748.2



REPORT NUMBER: P1212178 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	18827.3	16734.8	14812.2	13126.1	11757.9	10570.4	9620.3	8933.2	8450.8	7529.0	6163.6
-25°	16482.7	14812.2	13302.4	12020.0	10860.3	9859.7	9174.0	8664.4	7985.0	6945.4	5574.9
-27.5°	14445.9	13126.1	12020.0	10958.0	10018.4	9349.2	8809.8	8318.2	7471.6	6199.6	5247.1
-30°	12712.9	11757.9	10860.3	10018.4	9408.1	8883.3	8482.3	7733.5	6693.1	5518.0	4895.8
-32.5°	11254.9	10570.4	9859.7	9349.2	8883.3	8518.1	7865.8	6993.4	5790.8	5118.7	4570.4
-35°	10096.7	9620.3	9174.0	8809.8	8482.3	7865.8	7094.2	5987.1	5254.1	4717.2	4242.0
-37.5°	9269.3	8933.2	8664.4	8318.2	7733.5	6993.4	5987.1	5299.6	4791.2	4350.5	3820.7
-40°	8680.2	8450.8	7985.0	7471.6	6693.1	5790.8	5254.1	4791.2	4386.9	3915.2	3345.2
-42.5°	7933.9	7529.0	6945.4	6199.6	5518.0	5118.7	4717.2	4350.5	3915.2	3391.7	2888.4
-45°	6748.2	6163.6	5574.9	5247.1	4895.8	4570.4	4242.0	3820.7	3345.2	2888.4	2426.8
-47.5°	5430.0	5174.5	4893.9	4626.2	4353.5	4039.9	3633.3	3209.3	2805.6	2399.0	2102.9
-50°	4718.7	4522.0	4305.5	4049.2	3713.8	3356.1	3002.1	2641.4	2315.9	2048.1	1795.1
-52.5°	4096.5	3856.4	3591.7	3303.7	3016.6	2716.4	2407.3	2178.8	1939.3	1733.6	1536.2
-55°	3279.5	3076.0	2855.7	2615.7	2379.0	2190.2	1989.6	1800.9	1631.9	1455.4	1279.4
-57.5°	2532.1	2374.2	2236.7	2086.7	1924.6	1780.3	1639.9	1491.5	1340.4	1184.0	1023.6
-60°	1989.6	1876.3	1780.3	1676.2	1563.6	1443.2	1319.9	1189.4	1052.2	920.5	783.5
-62.5°	1573.1	1495.0	1410.5	1319.9	1221.8	1116.5	1008.1	899.5	785.1	669.4	581.9
-65°	1194.0	1126.7	1052.2	977.3	896.5	809.6	717.0	637.0	564.6	488.6	412.0
-67.5°	838.4	783.5	722.8	663.2	612.7	558.4	500.4	438.9	385.0	332.9	278.5
-70°	549.9	516.1	478.6	437.5	399.5	362.8	323.6	282.0	238.0	202.9	171.6
-72.5°	335.0	312.5	287.6	260.3	230.6	207.3	185.2	161.7	136.8	110.8	90.9
-75°	175.7	163.3	149.6	134.5	118.1	100.5	90.3	83.3	76.0	68.3	60.2
-77.5°	81.3	77.8	73.8	69.5	64.8	59.7	54.3	49.5	46.6	43.6	40.4
-80°	45.3	44.0	42.5	40.8	39.0	37.1	35.0	32.8	30.5	28.8	27.9
-82.5°	27.8	27.4	27.0	26.5	26.0	25.5	24.9	24.3	23.6	22.9	22.2
-85°	21.0	20.9	20.8	20.7	20.7	20.6	20.5	20.4	20.3	20.1	20.0
-87.5°	18.0	17.7	17.4	17.0	16.6	16.2	15.7	15.2	14.7	14.2	13.6
-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: P1212178 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	12.3	11.7	11.0	10.3	9.6	8.9	8.1	7.3	6.6	5.8
85°	19.9	19.8	19.6	19.5	19.3	19.2	17.7	16.2	14.7	13.1	11.5
82.5°	21.4	21.1	20.8	20.6	20.4	20.2	20.0	19.7	19.5	19.2	17.3
80°	26.8	25.8	24.7	23.5	22.3	21.2	20.9	20.6	20.2	19.9	19.6
77.5°	37.0	33.5	29.9	28.1	26.6	25.1	23.6	22.0	21.0	20.6	20.2
75°	51.7	46.9	42.6	38.1	33.5	29.1	27.2	25.3	23.4	21.5	20.8
72.5°	81.1	70.8	60.2	49.9	44.5	39.0	33.4	28.7	26.4	24.1	21.8
70°	139.0	105.2	86.3	73.8	61.0	49.2	42.8	36.2	29.5	26.8	24.1
67.5°	222.2	184.1	144.7	104.1	83.6	68.8	53.7	44.6	37.1	29.5	26.4
65°	348.9	283.4	218.4	173.3	126.9	89.6	72.8	55.6	44.6	36.2	28.7
62.5°	490.9	402.4	328.0	251.4	190.5	138.4	91.5	72.8	53.7	42.8	33.4
60°	652.8	549.9	443.7	354.9	269.3	196.3	138.4	89.6	68.8	49.2	39.0
57.5°	869.2	709.6	585.5	467.4	363.9	269.3	190.5	126.9	83.6	61.0	44.5
55°	1097.1	920.9	743.9	597.5	467.4	354.9	251.4	173.3	104.1	73.8	49.9
52.5°	1337.1	1135.3	938.3	743.9	585.5	443.7	328.0	218.4	144.7	86.3	60.2
50°	1576.9	1356.4	1135.3	920.9	709.6	549.9	402.4	283.4	184.1	105.2	70.8
47.5°	1815.8	1576.9	1337.1	1097.1	869.2	652.8	490.9	348.9	222.2	139.0	81.1
45°	2102.9	1795.1	1536.2	1279.4	1023.6	783.5	581.9	412.0	278.5	171.6	90.9
42.5°	2399.0	2048.1	1733.6	1455.4	1184.0	920.5	669.4	488.6	332.9	202.9	110.8
40°	2805.6	2315.9	1939.3	1631.9	1340.4	1052.2	785.1	564.6	385.0	238.0	136.8
37.5°	3209.3	2641.4	2178.8	1800.9	1491.5	1189.4	899.5	637.0	438.9	282.0	161.7
35°	3633.3	3002.1	2407.3	1989.6	1639.9	1319.9	1008.1	717.0	500.4	323.6	185.2
32.5°	4039.9	3356.1	2716.4	2190.2	1780.3	1443.2	1116.5	809.6	558.4	362.8	207.3
30°	4353.5	3713.8	3016.6	2379.0	1924.6	1563.6	1221.8	896.5	612.7	399.5	230.6
27.5°	4626.2	4049.2	3303.7	2615.7	2086.7	1676.2	1319.9	977.3	663.2	437.5	260.3
25°	4893.9	4305.5	3591.7	2855.7	2236.7	1780.3	1410.5	1052.2	722.8	478.6	287.6
22.5°	5174.5	4522.0	3856.4	3076.0	2374.2	1876.3	1495.0	1126.7	783.5	516.1	312.5
20°	5430.0	4718.7	4096.5	3279.5	2532.1	1989.6	1573.1	1194.0	838.4	549.9	335.0
17.5°	5700.5	4911.4	4267.8	3476.3	2694.9	2090.5	1642.5	1253.8	887.1	579.9	354.9
15°	6126.7	5096.7	4409.8	3648.6	2837.4	2178.8	1703.2	1306.1	929.7	606.1	372.3
12.5°	6491.8	5255.2	4531.1	3795.8	2958.8	2254.0	1754.9	1350.6	965.8	628.4	387.1
10°	6793.7	5386.1	4631.2	3917.1	3058.9	2315.9	1797.4	1387.1	995.6	646.7	399.2
7.5°	7030.6	5488.7	4709.6	4012.0	3137.2	2364.3	1830.7	1415.7	1018.8	661.0	408.7
5°	7200.9	5562.5	4765.9	4080.1	3193.3	2399.0	1854.5	1436.2	1035.5	671.2	415.5
2.5°	7303.5	5606.9	4799.8	4121.1	3227.1	2419.8	1868.8	1448.5	1045.5	677.3	419.5
0°	7337.8	5621.7	4811.1	4134.8	3238.4	2426.8	1873.6	1452.6	1048.8	679.4	420.9
-2.5°	7303.5	5606.9	4799.8	4121.1	3227.1	2419.8	1868.8	1448.5	1045.5	677.3	419.5
-5°	7200.9	5562.5	4765.9	4080.1	3193.3	2399.0	1854.5	1436.2	1035.5	671.2	415.5
-7.5°	7030.6	5488.7	4709.6	4012.0	3137.2	2364.3	1830.7	1415.7	1018.8	661.0	408.7
-10°	6793.7	5386.1	4631.2	3917.1	3058.9	2315.9	1797.4	1387.1	995.6	646.7	399.2
-12.5°	6491.8	5255.2	4531.1	3795.8	2958.8	2254.0	1754.9	1350.6	965.8	628.4	387.1
-15°	6126.7	5096.7	4409.8	3648.6	2837.4	2178.8	1703.2	1306.1	929.7	606.1	372.3
-17.5°	5700.5	4911.4	4267.8	3476.3	2694.9	2090.5	1642.5	1253.8	887.1	579.9	354.9
-20°	5430.0	4718.7	4096.5	3279.5	2532.1	1989.6	1573.1	1194.0	838.4	549.9	335.0



REPORT NUMBER: P1212178 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	5174.5	4522.0	3856.4	3076.0	2374.2	1876.3	1495.0	1126.7	783.5	516.1	312.5
-25°	4893.9	4305.5	3591.7	2855.7	2236.7	1780.3	1410.5	1052.2	722.8	478.6	287.6
-27.5°	4626.2	4049.2	3303.7	2615.7	2086.7	1676.2	1319.9	977.3	663.2	437.5	260.3
-30°	4353.5	3713.8	3016.6	2379.0	1924.6	1563.6	1221.8	896.5	612.7	399.5	230.6
-32.5°	4039.9	3356.1	2716.4	2190.2	1780.3	1443.2	1116.5	809.6	558.4	362.8	207.3
-35°	3633.3	3002.1	2407.3	1989.6	1639.9	1319.9	1008.1	717.0	500.4	323.6	185.2
-37.5°	3209.3	2641.4	2178.8	1800.9	1491.5	1189.4	899.5	637.0	438.9	282.0	161.7
-40°	2805.6	2315.9	1939.3	1631.9	1340.4	1052.2	785.1	564.6	385.0	238.0	136.8
-42.5°	2399.0	2048.1	1733.6	1455.4	1184.0	920.5	669.4	488.6	332.9	202.9	110.8
-45°	2102.9	1795.1	1536.2	1279.4	1023.6	783.5	581.9	412.0	278.5	171.6	90.9
-47.5°	1815.8	1576.9	1337.1	1097.1	869.2	652.8	490.9	348.9	222.2	139.0	81.1
-50°	1576.9	1356.4	1135.3	920.9	709.6	549.9	402.4	283.4	184.1	105.2	70.8
-52.5°	1337.1	1135.3	938.3	743.9	585.5	443.7	328.0	218.4	144.7	86.3	60.2
-55°	1097.1	920.9	743.9	597.5	467.4	354.9	251.4	173.3	104.1	73.8	49.9
-57.5°	869.2	709.6	585.5	467.4	363.9	269.3	190.5	126.9	83.6	61.0	44.5
-60°	652.8	549.9	443.7	354.9	269.3	196.3	138.4	89.6	68.8	49.2	39.0
-62.5°	490.9	402.4	328.0	251.4	190.5	138.4	91.5	72.8	53.7	42.8	33.4
-65°	348.9	283.4	218.4	173.3	126.9	89.6	72.8	55.6	44.6	36.2	28.7
-67.5°	222.2	184.1	144.7	104.1	83.6	68.8	53.7	44.6	37.1	29.5	26.4
-70°	139.0	105.2	86.3	73.8	61.0	49.2	42.8	36.2	29.5	26.8	24.1
-72.5°	81.1	70.8	60.2	49.9	44.5	39.0	33.4	28.7	26.4	24.1	21.8
-75°	51.7	46.9	42.6	38.1	33.5	29.1	27.2	25.3	23.4	21.5	20.8
-77.5°	37.0	33.5	29.9	28.1	26.6	25.1	23.6	22.0	21.0	20.6	20.2
-80°	26.8	25.8	24.7	23.5	22.3	21.2	20.9	20.6	20.2	19.9	19.6
-82.5°	21.4	21.1	20.8	20.6	20.4	20.2	20.0	19.7	19.5	19.2	17.3
-85°	19.9	19.8	19.6	19.5	19.3	19.2	17.7	16.2	14.7	13.1	11.5
-87.5°	13.0	12.3	11.7	11.0	10.3	9.6	8.9	8.1	7.3	6.6	5.8
-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: P1212178 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	4.2	3.3	2.5	1.7	0.8	0.0
85°	9.9	8.3	6.7	5.0	3.3	1.7	0.0
82.5°	14.9	12.4	10.0	7.5	5.0	2.5	0.0
80°	19.3	16.5	13.3	10.0	6.7	3.3	0.0
77.5°	19.8	19.3	16.5	12.4	8.3	4.2	0.0
75°	20.3	19.8	19.3	14.9	9.9	5.0	0.0
72.5°	20.8	20.2	19.6	17.3	11.5	5.8	0.0
70°	21.5	20.6	19.9	19.2	13.1	6.6	0.0
67.5°	23.4	21.0	20.2	19.5	14.7	7.3	0.0
65°	25.3	22.0	20.6	19.7	16.2	8.1	0.0
62.5°	27.2	23.6	20.9	20.0	17.7	8.9	0.0
60°	29.1	25.1	21.2	20.2	19.2	9.6	0.0
57.5°	33.5	26.6	22.3	20.4	19.3	10.3	0.0
55°	38.1	28.1	23.5	20.6	19.5	11.0	0.0
52.5°	42.6	29.9	24.7	20.8	19.6	11.7	0.0
50°	46.9	33.5	25.8	21.1	19.8	12.3	0.0
47.5°	51.7	37.0	26.8	21.4	19.9	13.0	0.0
45°	60.2	40.4	27.9	22.2	20.0	13.6	0.0
42.5°	68.3	43.6	28.8	22.9	20.1	14.2	0.0
40°	76.0	46.6	30.5	23.6	20.3	14.7	0.0
37.5°	83.3	49.5	32.8	24.3	20.4	15.2	0.0
35°	90.3	54.3	35.0	24.9	20.5	15.7	0.0
32.5°	100.5	59.7	37.1	25.5	20.6	16.2	0.0
30°	118.1	64.8	39.0	26.0	20.7	16.6	0.0
27.5°	134.5	69.5	40.8	26.5	20.7	17.0	0.0
25°	149.6	73.8	42.5	27.0	20.8	17.4	0.0
22.5°	163.3	77.8	44.0	27.4	20.9	17.7	0.0
20°	175.7	81.3	45.3	27.8	21.0	18.0	0.0
17.5°	186.7	84.5	46.5	28.2	21.0	18.3	0.0
15°	196.3	87.2	47.6	28.5	21.1	18.5	0.0
12.5°	204.5	89.6	48.5	28.7	21.1	18.7	0.0
10°	211.1	91.5	49.2	28.9	21.1	18.9	0.0
7.5°	216.4	93.0	49.8	29.1	21.2	19.0	0.0
5°	220.1	94.0	50.2	29.2	21.2	19.1	0.0
2.5°	222.4	94.7	50.4	29.3	21.2	19.2	0.0
0°	223.1	94.9	50.5	29.3	21.2	19.2	0.0
-2.5°	222.4	94.7	50.4	29.3	21.2	19.2	0.0
-5°	220.1	94.0	50.2	29.2	21.2	19.1	0.0
-7.5°	216.4	93.0	49.8	29.1	21.2	19.0	0.0
-10°	211.1	91.5	49.2	28.9	21.1	18.9	0.0
-12.5°	204.5	89.6	48.5	28.7	21.1	18.7	0.0
-15°	196.3	87.2	47.6	28.5	21.1	18.5	0.0
-17.5°	186.7	84.5	46.5	28.2	21.0	18.3	0.0
-20°	175.7	81.3	45.3	27.8	21.0	18.0	0.0



REPORT NUMBER: P1212178 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-1S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	163.3	77.8	44.0	27.4	20.9	17.7	0.0
-25°	149.6	73.8	42.5	27.0	20.8	17.4	0.0
-27.5°	134.5	69.5	40.8	26.5	20.7	17.0	0.0
-30°	118.1	64.8	39.0	26.0	20.7	16.6	0.0
-32.5°	100.5	59.7	37.1	25.5	20.6	16.2	0.0
-35°	90.3	54.3	35.0	24.9	20.5	15.7	0.0
-37.5°	83.3	49.5	32.8	24.3	20.4	15.2	0.0
-40°	76.0	46.6	30.5	23.6	20.3	14.7	0.0
-42.5°	68.3	43.6	28.8	22.9	20.1	14.2	0.0
-45°	60.2	40.4	27.9	22.2	20.0	13.6	0.0
-47.5°	51.7	37.0	26.8	21.4	19.9	13.0	0.0
-50°	46.9	33.5	25.8	21.1	19.8	12.3	0.0
-52.5°	42.6	29.9	24.7	20.8	19.6	11.7	0.0
-55°	38.1	28.1	23.5	20.6	19.5	11.0	0.0
-57.5°	33.5	26.6	22.3	20.4	19.3	10.3	0.0
-60°	29.1	25.1	21.2	20.2	19.2	9.6	0.0
-62.5°	27.2	23.6	20.9	20.0	17.7	8.9	0.0
-65°	25.3	22.0	20.6	19.7	16.2	8.1	0.0
-67.5°	23.4	21.0	20.2	19.5	14.7	7.3	0.0
-70°	21.5	20.6	19.9	19.2	13.1	6.6	0.0
-72.5°	20.8	20.2	19.6	17.3	11.5	5.8	0.0
-75°	20.3	19.8	19.3	14.9	9.9	5.0	0.0
-77.5°	19.8	19.3	16.5	12.4	8.3	4.2	0.0
-80°	19.3	16.5	13.3	10.0	6.7	3.3	0.0
-82.5°	14.9	12.4	10.0	7.5	5.0	2.5	0.0
-85°	9.9	8.3	6.7	5.0	3.3	1.7	0.0
-87.5°	5.0	4.2	3.3	2.5	1.7	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)