

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

(formerly Eaton)

Brand: EPHESUS

Report Number: P699942 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-70-4S-S**

Issue Date: 8/10/2023

Test Information

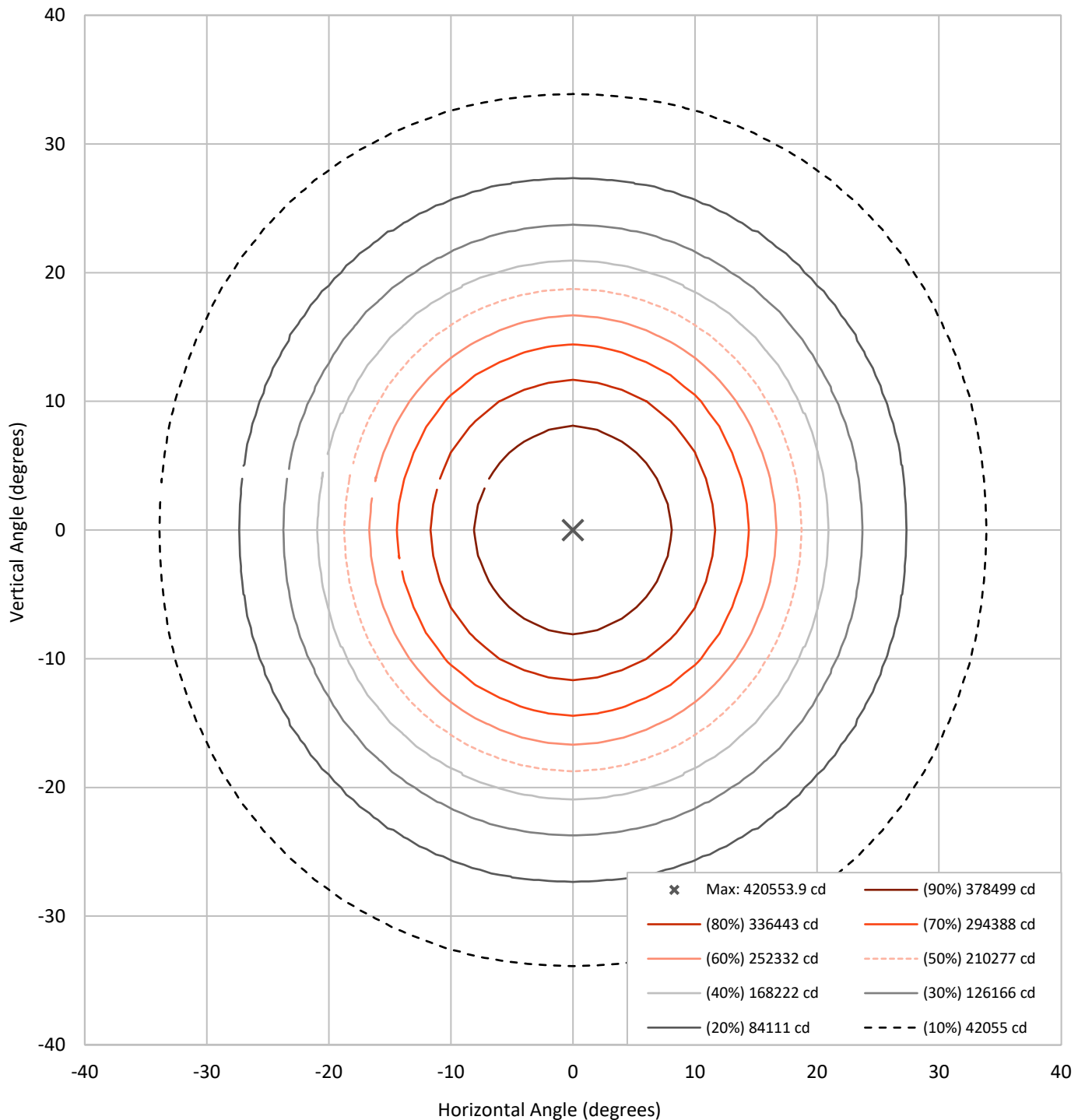
Test Method: LM-79-08
Report Number: P699942 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-12)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200R-40-70-4S-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 70 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	200696.3 lumens	Max Intensity:	420553.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	161.3 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	37.5°H x 37.5°V	Field Angle (10%):	67.8°H x 67.8°V
Beam Lumens:	102106.5 lumens	Field Lumens:	176574.1 lumens
Beam Efficiency:	50.9%	Field Efficiency:	88.0%
Input Watts (W):	1244.6		
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





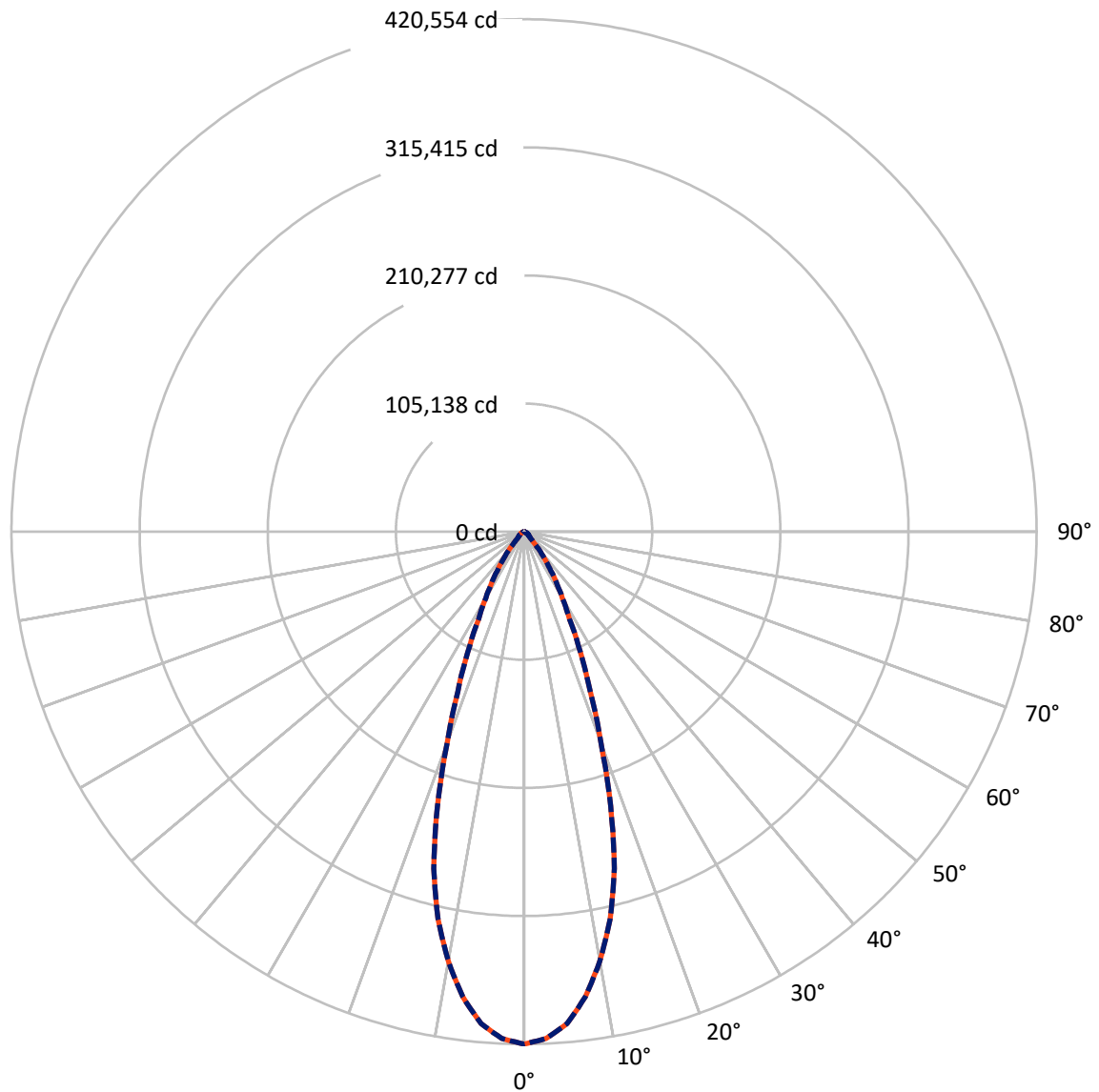
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Lumen Table

90	0.1	1.2	6.5	16.5	21.6	16.5	6.5	1.2	0.1							
80	0.1	1.2	6.5	16.5	21.6	16.5	6.5	1.2	0.1							
70	0.6	1.0	4.3	11.9	23.7	37.3	49.1	55.6	55.6	49.1	37.3	23.7	11.9	4.3	1.0	0.6
60		3.3	13.8	35.0	63.1	90.3	111.4	123.2	123.2	111.4	90.3	63.1	35.0	13.8	3.3	
50	2.3	7.3	28.6	64.4	104.5	148.9	207.2	261.7	261.7	207.2	148.9	104.5	64.4	28.6	7.3	2.3
40		12.7	44.6	90.5	159.4	378.8	784.9	1099.6	1099.6	784.9	378.8	159.4	90.5	44.6	12.7	
30	4.9	18.0	57.7	116.8	344.6	1068.8	2170.7	3237.4	3237.4	2170.7	1068.8	344.6	116.8	57.7	18.0	4.9
20		22.2	66.8	153.2	672.4	2044.3	4936.9	7904.1	7904.1	4936.9	2044.3	672.4	153.2	66.8	22.2	
10	6.1	24.4	71.7	188.8	914.2	2964.0	7680.4	11454.8	11454.8	7680.4	2964.0	914.2	188.8	71.7	24.4	6.1
0		24.4	71.7	188.8	914.2	2964.0	7680.4	11454.8	11454.8	7680.4	2964.0	914.2	188.8	71.7	24.4	
-10	4.9	22.2	66.8	153.2	672.4	2044.3	4936.9	7904.1	7904.1	4936.9	2044.3	672.4	153.2	66.8	22.2	4.9
-20		18.0	57.7	116.8	344.6	1068.8	2170.7	3237.4	3237.4	2170.7	1068.8	344.6	116.8	57.7	18.0	
-30	2.3	12.7	44.6	90.5	159.4	378.8	784.9	1099.6	1099.6	784.9	378.8	159.4	90.5	44.6	12.7	2.3
-40		7.3	28.6	64.4	104.5	148.9	207.2	261.7	261.7	207.2	148.9	104.5	64.4	28.6	7.3	
-50	0.6	3.3	13.8	35.0	63.1	90.3	111.4	123.2	123.2	111.4	90.3	63.1	35.0	13.8	3.3	0.6
-60		1.0	4.3	11.9	23.7	37.3	49.1	55.6	55.6	49.1	37.3	23.7	11.9	4.3	1.0	
-70	0.1	1.2	6.5	16.5	21.6	16.5	6.5	1.2	0.1							
-80		1.2	6.5	16.5	21.6	16.5	6.5	1.2	0.1							
-90	0.1	1.2	6.5	16.5	21.6	16.5	6.5	1.2	0.1							

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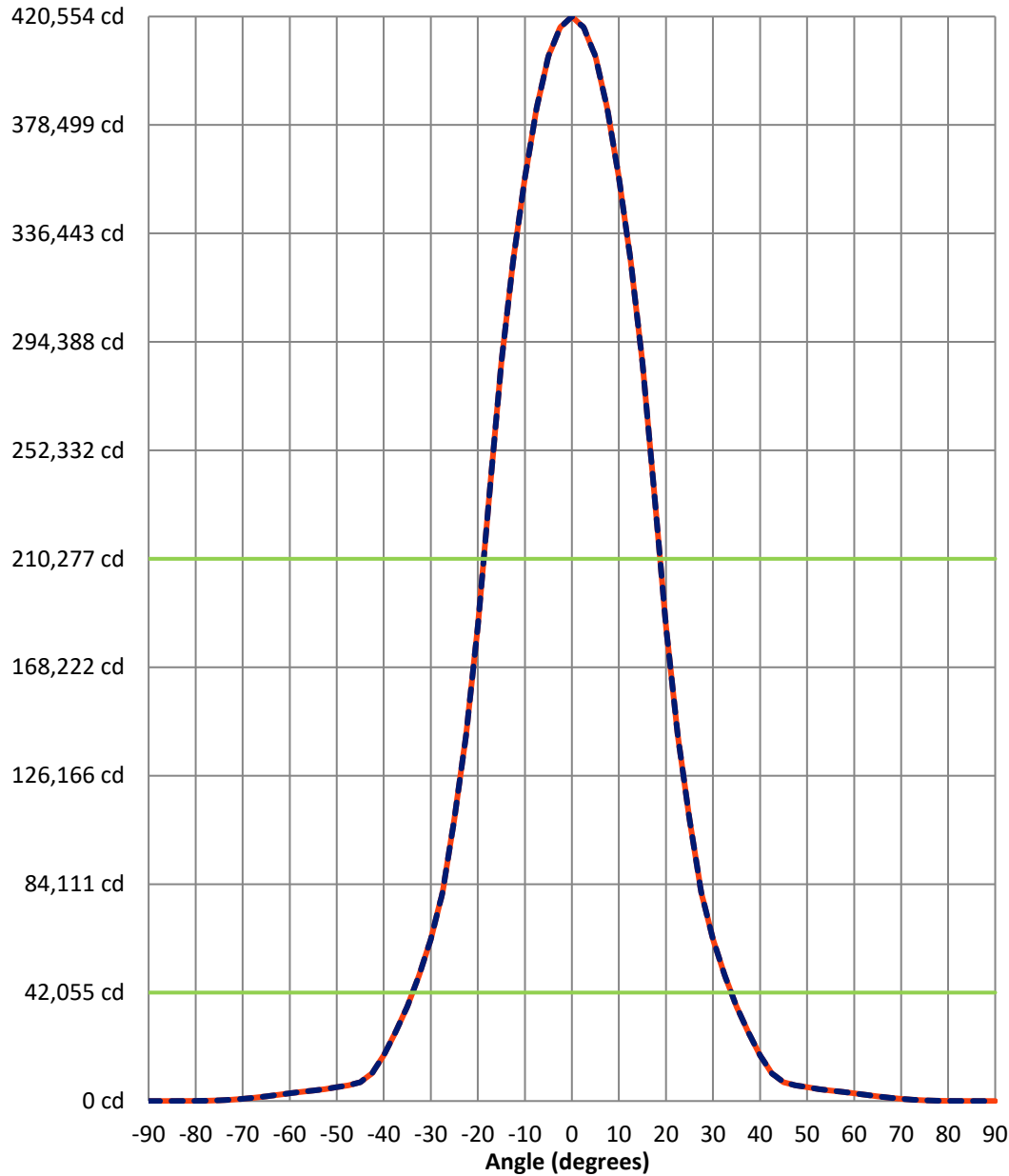
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 37.5°
 V Angle: 37.5°
 Lumens: 102106.5
 Efficiency: 50.9%

Field:
 H Angle: 67.8°
 V Angle: 67.8°
 Lumens: 176574.1
 Efficiency: 88.0%

Spill:
 Lumens: 24122.3
 Efficiency: 12.0%

- 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	0.1	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3
85°	0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.9	2.1	2.4	2.6
82.5°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.3	4.3	5.3
80°	0.0	0.5	1.1	1.6	2.1	2.7	3.4	4.7	6.1	7.5	8.8
77.5°	0.0	0.7	1.3	2.0	2.7	3.7	5.5	7.2	8.9	10.6	13.3
75°	0.0	0.8	1.6	2.4	3.4	5.5	7.6	9.6	12.0	16.5	21.0
72.5°	0.0	0.9	1.9	2.8	4.7	7.2	9.6	12.8	18.2	23.4	28.6
70°	0.0	1.1	2.1	3.3	6.1	8.9	12.0	18.2	24.2	30.3	37.8
67.5°	0.0	1.2	2.4	4.3	7.5	10.6	16.5	23.4	30.3	38.9	47.3
65°	0.0	1.3	2.6	5.3	8.8	13.3	21.0	28.6	37.8	47.3	63.0
62.5°	0.0	1.4	2.9	6.3	10.1	16.9	25.3	34.7	45.2	59.5	93.4
60°	0.0	1.5	3.1	7.2	11.3	20.5	29.6	41.0	52.4	86.4	123.2
57.5°	0.0	1.7	3.7	8.2	14.0	24.0	34.8	47.2	72.5	112.7	169.7
55°	0.0	1.8	4.3	9.1	16.8	27.3	40.0	53.3	95.3	143.3	223.3
52.5°	0.0	1.9	4.9	9.9	19.4	30.8	45.0	71.2	117.5	190.3	275.5
50°	0.0	2.0	5.5	10.8	21.9	34.8	49.9	90.0	144.6	235.8	350.5
47.5°	0.0	2.1	6.0	11.8	24.4	38.7	56.1	108.2	183.7	279.9	425.9
45°	0.0	2.2	6.5	13.6	26.8	42.5	71.1	125.7	221.4	344.7	498.7
42.5°	0.0	2.3	7.0	15.3	29.0	46.1	85.4	151.0	257.5	407.5	600.7
40°	0.0	2.4	7.5	16.9	31.5	49.6	99.2	181.2	298.1	467.6	703.6
37.5°	0.0	2.5	8.0	18.5	34.1	52.8	112.2	209.9	348.8	533.3	801.7
35°	0.0	2.5	8.4	19.9	36.6	60.6	124.5	237.0	396.7	616.6	903.8
32.5°	0.0	2.6	8.8	21.3	38.9	70.2	139.1	262.6	441.9	695.2	1013.7
30°	0.0	2.7	9.2	22.5	41.0	79.2	159.5	289.6	484.2	768.8	1116.8
27.5°	0.0	2.7	9.5	23.7	43.1	87.6	178.5	323.7	531.4	837.2	1212.7
25°	0.0	2.8	9.8	24.8	44.9	95.3	195.9	355.2	587.1	910.7	1302.0
22.5°	0.0	2.9	10.1	25.8	46.6	102.3	211.8	383.9	637.9	982.8	1398.4
20°	0.0	2.9	10.4	26.7	48.1	108.6	226.1	409.8	683.7	1047.9	1485.4
17.5°	0.0	3.0	10.6	27.5	49.5	114.2	238.8	432.8	724.4	1105.7	1562.9
15°	0.0	3.0	10.8	28.2	50.6	119.1	249.9	452.9	759.9	1156.2	1630.5
12.5°	0.0	3.0	11.0	28.8	51.6	123.2	259.3	469.9	790.0	1199.1	1688.0
10°	0.0	3.1	11.1	29.2	52.4	126.6	267.1	483.9	814.9	1234.5	1735.3
7.5°	0.0	3.1	11.3	29.6	53.1	129.3	273.1	494.8	834.2	1262.0	1772.3
5°	0.0	3.1	11.3	29.9	53.5	131.2	277.4	502.6	848.1	1281.8	1798.8
2.5°	0.0	3.1	11.4	30.0	53.8	132.3	280.0	507.3	856.4	1293.6	1814.7
0°	0.0	3.1	11.4	30.1	53.9	132.7	280.9	508.9	859.2	1297.6	1820.0
-2.5°	0.0	3.1	11.4	30.0	53.8	132.3	280.0	507.3	856.4	1293.6	1814.7
-5°	0.0	3.1	11.3	29.9	53.5	131.2	277.4	502.6	848.1	1281.8	1798.8
-7.5°	0.0	3.1	11.3	29.6	53.1	129.3	273.1	494.8	834.2	1262.0	1772.3
-10°	0.0	3.1	11.1	29.2	52.4	126.6	267.1	483.9	814.9	1234.5	1735.3
-12.5°	0.0	3.0	11.0	28.8	51.6	123.2	259.3	469.9	790.0	1199.1	1688.0
-15°	0.0	3.0	10.8	28.2	50.6	119.1	249.9	452.9	759.9	1156.2	1630.5
-17.5°	0.0	3.0	10.6	27.5	49.5	114.2	238.8	432.8	724.4	1105.7	1562.9
-20°	0.0	2.9	10.4	26.7	48.1	108.6	226.1	409.8	683.7	1047.9	1485.4



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 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4S-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	2.9	10.1	25.8	46.6	102.3	211.8	383.9	637.9	982.8	1398.4
-25°	0.0	2.8	9.8	24.8	44.9	95.3	195.9	355.2	587.1	910.7	1302.0
-27.5°	0.0	2.7	9.5	23.7	43.1	87.6	178.5	323.7	531.4	837.2	1212.7
-30°	0.0	2.7	9.2	22.5	41.0	79.2	159.5	289.6	484.2	768.8	1116.8
-32.5°	0.0	2.6	8.8	21.3	38.9	70.2	139.1	262.6	441.9	695.2	1013.7
-35°	0.0	2.5	8.4	19.9	36.6	60.6	124.5	237.0	396.7	616.6	903.8
-37.5°	0.0	2.5	8.0	18.5	34.1	52.8	112.2	209.9	348.8	533.3	801.7
-40°	0.0	2.4	7.5	16.9	31.5	49.6	99.2	181.2	298.1	467.6	703.6
-42.5°	0.0	2.3	7.0	15.3	29.0	46.1	85.4	151.0	257.5	407.5	600.7
-45°	0.0	2.2	6.5	13.6	26.8	42.5	71.1	125.7	221.4	344.7	498.7
-47.5°	0.0	2.1	6.0	11.8	24.4	38.7	56.1	108.2	183.7	279.9	425.9
-50°	0.0	2.0	5.5	10.8	21.9	34.8	49.9	90.0	144.6	235.8	350.5
-52.5°	0.0	1.9	4.9	9.9	19.4	30.8	45.0	71.2	117.5	190.3	275.5
-55°	0.0	1.8	4.3	9.1	16.8	27.3	40.0	53.3	95.3	143.3	223.3
-57.5°	0.0	1.7	3.7	8.2	14.0	24.0	34.8	47.2	72.5	112.7	169.7
-60°	0.0	1.5	3.1	7.2	11.3	20.5	29.6	41.0	52.4	86.4	123.2
-62.5°	0.0	1.4	2.9	6.3	10.1	16.9	25.3	34.7	45.2	59.5	93.4
-65°	0.0	1.3	2.6	5.3	8.8	13.3	21.0	28.6	37.8	47.3	63.0
-67.5°	0.0	1.2	2.4	4.3	7.5	10.6	16.5	23.4	30.3	38.9	47.3
-70°	0.0	1.1	2.1	3.3	6.1	8.9	12.0	18.2	24.2	30.3	37.8
-72.5°	0.0	0.9	1.9	2.8	4.7	7.2	9.6	12.8	18.2	23.4	28.6
-75°	0.0	0.8	1.6	2.4	3.4	5.5	7.6	9.6	12.0	16.5	21.0
-77.5°	0.0	0.7	1.3	2.0	2.7	3.7	5.5	7.2	8.9	10.6	13.3
-80°	0.0	0.5	1.1	1.6	2.1	2.7	3.4	4.7	6.1	7.5	8.8
-82.5°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.3	4.3	5.3
-85°	0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.9	2.1	2.4	2.6
-87.5°	0.0	0.1	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3
-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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 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4S-S

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°	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5
85°	2.9	3.1	3.7	4.3	4.9	5.5	6.0	6.5	7.0	7.5	8.0
82.5°	6.3	7.2	8.2	9.1	9.9	10.8	11.8	13.6	15.3	16.9	18.5
80°	10.1	11.3	14.0	16.8	19.4	21.9	24.4	26.8	29.0	31.5	34.1
77.5°	16.9	20.5	24.0	27.3	30.8	34.8	38.7	42.5	46.1	49.6	52.8
75°	25.3	29.6	34.8	40.0	45.0	49.9	56.1	71.1	85.4	99.2	112.2
72.5°	34.7	41.0	47.2	53.3	71.2	90.0	108.2	125.7	151.0	181.2	209.9
70°	45.2	52.4	72.5	95.3	117.5	144.6	183.7	221.4	257.5	298.1	348.8
67.5°	59.5	86.4	112.7	143.3	190.3	235.8	279.9	344.7	407.5	467.6	533.3
65°	93.4	123.2	169.7	223.3	275.5	350.5	425.9	498.7	600.7	703.6	801.7
62.5°	126.7	183.0	243.3	313.5	401.8	487.5	603.8	727.0	845.7	984.6	1120.4
60°	183.0	249.9	334.2	432.8	539.9	683.7	823.1	982.8	1145.3	1302.0	1479.5
57.5°	243.3	334.2	443.2	571.9	732.0	895.0	1084.4	1267.7	1472.5	1674.8	1874.1
55°	313.5	432.8	571.9	748.2	935.8	1145.9	1360.1	1595.9	1823.9	2069.3	2304.3
52.5°	401.8	539.9	732.0	935.8	1166.4	1409.5	1670.6	1936.3	2210.7	2477.1	2738.2
50°	487.5	683.7	895.0	1145.9	1409.5	1695.6	1992.9	2296.4	2595.8	2887.7	3157.8
47.5°	603.8	823.1	1084.4	1360.1	1670.6	1992.9	2325.0	2655.5	2978.3	3271.8	3552.3
45°	727.0	982.8	1267.7	1595.9	1936.3	2296.4	2655.5	3008.7	3329.3	3631.9	3896.4
42.5°	845.7	1145.3	1472.5	1823.9	2210.7	2595.8	2978.3	3329.3	3657.8	3948.9	4244.3
40°	984.6	1302.0	1674.8	2069.3	2477.1	2887.7	3271.8	3631.9	3948.9	4273.5	4598.1
37.5°	1120.4	1479.5	1874.1	2304.3	2738.2	3157.8	3552.3	3896.4	4244.3	4598.1	5083.8
35°	1249.3	1648.3	2080.5	2532.0	2987.4	3408.3	3792.2	4157.2	4538.7	5040.1	5542.7
32.5°	1385.2	1807.8	2275.8	2750.7	3209.9	3638.0	4018.3	4420.8	4909.9	5462.5	5953.5
30°	1521.4	1974.3	2461.1	2956.6	3418.4	3836.9	4246.7	4695.5	5293.8	5830.9	6532.4
27.5°	1648.3	2131.0	2637.8	3139.9	3608.8	4023.5	4465.7	5033.3	5629.4	6242.3	7180.1
25°	1765.5	2275.8	2801.4	3306.7	3769.0	4208.2	4693.7	5348.5	5933.9	6811.0	8656.7
22.5°	1879.0	2408.5	2951.3	3459.7	3916.2	4382.0	4963.5	5614.7	6305.9	7384.0	10258.3
20°	1987.6	2532.0	3081.9	3595.4	4049.8	4539.9	5209.1	5853.4	6754.4	8750.5	12727.4
17.5°	2084.2	2642.1	3195.0	3704.8	4177.9	4710.6	5425.7	6067.8	7158.1	9983.2	15429.1
15°	2168.6	2738.2	3293.9	3800.7	4291.9	4888.7	5599.7	6376.9	7880.1	11394.8	17844.2
12.5°	2240.4	2820.2	3378.3	3882.5	4389.3	5041.1	5748.7	6658.9	8745.3	13300.5	20497.0
10°	2299.6	2887.7	3447.8	3950.0	4469.7	5167.0	5872.0	6892.4	9462.9	14883.9	22706.2
7.5°	2345.8	2940.5	3502.2	4002.8	4532.6	5265.7	5968.7	7075.8	10027.2	16131.2	24449.6
5°	2378.9	2978.3	3541.2	4040.7	4577.8	5336.5	6038.2	7207.8	10433.8	17030.9	25709.0
2.5°	2398.9	3001.1	3564.7	4063.5	4605.0	5379.2	6080.1	7287.4	10679.1	17574.2	26470.3
0°	2405.5	3008.7	3572.5	4071.1	4614.1	5393.5	6094.1	7314.0	10761.1	17755.9	26725.1
-2.5°	2398.9	3001.1	3564.7	4063.5	4605.0	5379.2	6080.1	7287.4	10679.1	17574.2	26470.3
-5°	2378.9	2978.3	3541.2	4040.7	4577.8	5336.5	6038.2	7207.8	10433.8	17030.9	25709.0
-7.5°	2345.8	2940.5	3502.2	4002.8	4532.6	5265.7	5968.7	7075.8	10027.2	16131.2	24449.6
-10°	2299.6	2887.7	3447.8	3950.0	4469.7	5167.0	5872.0	6892.4	9462.9	14883.9	22706.2
-12.5°	2240.4	2820.2	3378.3	3882.5	4389.3	5041.1	5748.7	6658.9	8745.3	13300.5	20497.0
-15°	2168.6	2738.2	3293.9	3800.7	4291.9	4888.7	5599.7	6376.9	7880.1	11394.8	17844.2
-17.5°	2084.2	2642.1	3195.0	3704.8	4177.9	4710.6	5425.7	6067.8	7158.1	9983.2	15429.1
-20°	1987.6	2532.0	3081.9	3595.4	4049.8	4539.9	5209.1	5853.4	6754.4	8750.5	12727.4



REPORT NUMBER: P699942 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4S-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1879.0	2408.5	2951.3	3459.7	3916.2	4382.0	4963.5	5614.7	6305.9	7384.0	10258.3
-25°	1765.5	2275.8	2801.4	3306.7	3769.0	4208.2	4693.7	5348.5	5933.9	6811.0	8656.7
-27.5°	1648.3	2131.0	2637.8	3139.9	3608.8	4023.5	4465.7	5033.3	5629.4	6242.3	7180.1
-30°	1521.4	1974.3	2461.1	2956.6	3418.4	3836.9	4246.7	4695.5	5293.8	5830.9	6532.4
-32.5°	1385.2	1807.8	2275.8	2750.7	3209.9	3638.0	4018.3	4420.8	4909.9	5462.5	5953.5
-35°	1249.3	1648.3	2080.5	2532.0	2987.4	3408.3	3792.2	4157.2	4538.7	5040.1	5542.7
-37.5°	1120.4	1479.5	1874.1	2304.3	2738.2	3157.8	3552.3	3896.4	4244.3	4598.1	5083.8
-40°	984.6	1302.0	1674.8	2069.3	2477.1	2887.7	3271.8	3631.9	3948.9	4273.5	4598.1
-42.5°	845.7	1145.3	1472.5	1823.9	2210.7	2595.8	2978.3	3329.3	3657.8	3948.9	4244.3
-45°	727.0	982.8	1267.7	1595.9	1936.3	2296.4	2655.5	3008.7	3329.3	3631.9	3896.4
-47.5°	603.8	823.1	1084.4	1360.1	1670.6	1992.9	2325.0	2655.5	2978.3	3271.8	3552.3
-50°	487.5	683.7	895.0	1145.9	1409.5	1695.6	1992.9	2296.4	2595.8	2887.7	3157.8
-52.5°	401.8	539.9	732.0	935.8	1166.4	1409.5	1670.6	1936.3	2210.7	2477.1	2738.2
-55°	313.5	432.8	571.9	748.2	935.8	1145.9	1360.1	1595.9	1823.9	2069.3	2304.3
-57.5°	243.3	334.2	443.2	571.9	732.0	895.0	1084.4	1267.7	1472.5	1674.8	1874.1
-60°	183.0	249.9	334.2	432.8	539.9	683.7	823.1	982.8	1145.3	1302.0	1479.5
-62.5°	126.7	183.0	243.3	313.5	401.8	487.5	603.8	727.0	845.7	984.6	1120.4
-65°	93.4	123.2	169.7	223.3	275.5	350.5	425.9	498.7	600.7	703.6	801.7
-67.5°	59.5	86.4	112.7	143.3	190.3	235.8	279.9	344.7	407.5	467.6	533.3
-70°	45.2	52.4	72.5	95.3	117.5	144.6	183.7	221.4	257.5	298.1	348.8
-72.5°	34.7	41.0	47.2	53.3	71.2	90.0	108.2	125.7	151.0	181.2	209.9
-75°	25.3	29.6	34.8	40.0	45.0	49.9	56.1	71.1	85.4	99.2	112.2
-77.5°	16.9	20.5	24.0	27.3	30.8	34.8	38.7	42.5	46.1	49.6	52.8
-80°	10.1	11.3	14.0	16.8	19.4	21.9	24.4	26.8	29.0	31.5	34.1
-82.5°	6.3	7.2	8.2	9.1	9.9	10.8	11.8	13.6	15.3	16.9	18.5
-85°	2.9	3.1	3.7	4.3	4.9	5.5	6.0	6.5	7.0	7.5	8.0
-87.5°	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5
-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: P699942 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4S-S

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°	2.5	2.6	2.7	2.7	2.8	2.9	2.9	3.0	3.0	3.0	3.1
85°	8.4	8.8	9.2	9.5	9.8	10.1	10.4	10.6	10.8	11.0	11.1
82.5°	19.9	21.3	22.5	23.7	24.8	25.8	26.7	27.5	28.2	28.8	29.2
80°	36.6	38.9	41.0	43.1	44.9	46.6	48.1	49.5	50.6	51.6	52.4
77.5°	60.6	70.2	79.2	87.6	95.3	102.3	108.6	114.2	119.1	123.2	126.6
75°	124.5	139.1	159.5	178.5	195.9	211.8	226.1	238.8	249.9	259.3	267.1
72.5°	237.0	262.6	289.6	323.7	355.2	383.9	409.8	432.8	452.9	469.9	483.9
70°	396.7	441.9	484.2	531.4	587.1	637.9	683.7	724.4	759.9	790.0	814.9
67.5°	616.6	695.2	768.8	837.2	910.7	982.8	1047.9	1105.7	1156.2	1199.1	1234.5
65°	903.8	1013.7	1116.8	1212.7	1302.0	1398.4	1485.4	1562.9	1630.5	1688.0	1735.3
62.5°	1249.3	1385.2	1521.4	1648.3	1765.5	1879.0	1987.6	2084.2	2168.6	2240.4	2299.6
60°	1648.3	1807.8	1974.3	2131.0	2275.8	2408.5	2532.0	2642.1	2738.2	2820.2	2887.7
57.5°	2080.5	2275.8	2461.1	2637.8	2801.4	2951.3	3081.9	3195.0	3293.9	3378.3	3447.8
55°	2532.0	2750.7	2956.6	3139.9	3306.7	3459.7	3595.4	3704.8	3800.7	3882.5	3950.0
52.5°	2987.4	3209.9	3418.4	3608.8	3769.0	3916.2	4049.8	4177.9	4291.9	4389.3	4469.7
50°	3408.3	3638.0	3836.9	4023.5	4208.2	4382.0	4539.9	4710.6	4888.7	5041.1	5167.0
47.5°	3792.2	4018.3	4246.7	4465.7	4693.7	4963.5	5209.1	5425.7	5599.7	5748.7	5872.0
45°	4157.2	4420.8	4695.5	5033.3	5348.5	5614.7	5853.4	6067.8	6376.9	6658.9	6892.4
42.5°	4538.7	4909.9	5293.8	5629.4	5933.9	6305.9	6754.4	7158.1	7880.1	8745.3	9462.9
40°	5040.1	5462.5	5830.9	6242.3	6811.0	7384.0	8750.5	9983.2	11394.8	13300.5	14883.9
37.5°	5542.7	5953.5	6532.4	7180.1	8656.7	10258.3	12727.4	15429.1	17844.2	20497.0	22706.2
35°	5994.6	6679.0	7571.4	9522.7	11982.7	15469.2	18945.4	22686.0	26013.1	29127.8	31792.2
32.5°	6679.0	7784.9	9961.1	13351.5	17339.5	22013.3	26446.9	30889.3	34881.7	38713.1	42239.4
30°	7571.4	9961.1	13811.9	18438.2	23891.2	29267.5	34546.2	39954.9	45207.6	49972.9	54469.7
27.5°	9522.7	13351.5	18438.2	24523.6	30716.3	36820.4	43702.6	50250.7	56902.1	62736.5	69107.4
25°	11982.7	17339.5	23891.2	30716.3	37739.4	45612.7	53719.8	61693.2	70732.5	78986.8	88833.0
22.5°	15469.2	22013.3	29267.5	36820.4	45612.7	54892.7	64551.0	75696.5	88631.4	102749.7	115658.8
20°	18945.4	26446.9	34546.2	43702.6	53719.8	64551.0	77380.0	94159.4	111767.4	129602.7	145894.4
17.5°	22686.0	30889.3	39954.9	50250.7	61693.2	75696.5	94159.4	115176.4	136831.9	160708.0	182892.5
15°	26013.1	34881.7	45207.6	56902.1	70732.5	88631.4	111767.4	136831.9	165789.1	195956.6	226427.6
12.5°	29127.8	38713.1	49972.9	62736.5	78986.8	102749.7	129602.7	160708.0	195956.6	233828.4	267028.1
10°	31792.2	42239.4	54469.7	69107.4	88833.0	115658.8	145894.4	182892.5	226427.6	267028.1	301098.5
7.5°	33899.8	45036.3	58048.6	74205.3	97629.6	126901.5	162152.1	205084.5	251477.6	293792.4	326070.1
5°	35424.8	47064.7	60651.2	77925.4	104077.2	135189.9	174230.6	221971.3	270336.9	311492.3	343818.1
2.5°	36348.0	48294.4	62232.1	80190.8	108016.1	140274.8	181683.8	232477.0	282211.3	322213.0	354311.8
0°	36657.1	48706.5	62762.4	80951.6	109341.2	141989.4	184204.8	236046.5	286273.4	325738.2	357943.8
-2.5°	36348.0	48294.4	62232.1	80190.8	108016.1	140274.8	181683.8	232477.0	282211.3	322213.0	354311.8
-5°	35424.8	47064.7	60651.2	77925.4	104077.2	135189.9	174230.6	221971.3	270336.9	311492.3	343818.1
-7.5°	33899.8	45036.3	58048.6	74205.3	97629.6	126901.5	162152.1	205084.5	251477.6	293792.4	326070.1
-10°	31792.2	42239.4	54469.7	69107.4	88833.0	115658.8	145894.4	182892.5	226427.6	267028.1	301098.5
-12.5°	29127.8	38713.1	49972.9	62736.5	78986.8	102749.7	129602.7	160708.0	195956.6	233828.4	267028.1
-15°	26013.1	34881.7	45207.6	56902.1	70732.5	88631.4	111767.4	136831.9	165789.1	195956.6	226427.6
-17.5°	22686.0	30889.3	39954.9	50250.7	61693.2	75696.5	94159.4	115176.4	136831.9	160708.0	182892.5
-20°	18945.4	26446.9	34546.2	43702.6	53719.8	64551.0	77380.0	94159.4	111767.4	129602.7	145894.4



REPORT NUMBER: P699942 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4S-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	15469.2	22013.3	29267.5	36820.4	45612.7	54892.7	64551.0	75696.5	88631.4	102749.7	115658.8
-25°	11982.7	17339.5	23891.2	30716.3	37739.4	45612.7	53719.8	61693.2	70732.5	78986.8	88833.0
-27.5°	9522.7	13351.5	18438.2	24523.6	30716.3	36820.4	43702.6	50250.7	56902.1	62736.5	69107.4
-30°	7571.4	9961.1	13811.9	18438.2	23891.2	29267.5	34546.2	39954.9	45207.6	49972.9	54469.7
-32.5°	6679.0	7784.9	9961.1	13351.5	17339.5	22013.3	26446.9	30889.3	34881.7	38713.1	42239.4
-35°	5994.6	6679.0	7571.4	9522.7	11982.7	15469.2	18945.4	22686.0	26013.1	29127.8	31792.2
-37.5°	5542.7	5953.5	6532.4	7180.1	8656.7	10258.3	12727.4	15429.1	17844.2	20497.0	22706.2
-40°	5040.1	5462.5	5830.9	6242.3	6811.0	7384.0	8750.5	9983.2	11394.8	13300.5	14883.9
-42.5°	4538.7	4909.9	5293.8	5629.4	5933.9	6305.9	6754.4	7158.1	7880.1	8745.3	9462.9
-45°	4157.2	4420.8	4695.5	5033.3	5348.5	5614.7	5853.4	6067.8	6376.9	6658.9	6892.4
-47.5°	3792.2	4018.3	4246.7	4465.7	4693.7	4963.5	5209.1	5425.7	5599.7	5748.7	5872.0
-50°	3408.3	3638.0	3836.9	4023.5	4208.2	4382.0	4539.9	4710.6	4888.7	5041.1	5167.0
-52.5°	2987.4	3209.9	3418.4	3608.8	3769.0	3916.2	4049.8	4177.9	4291.9	4389.3	4469.7
-55°	2532.0	2750.7	2956.6	3139.9	3306.7	3459.7	3595.4	3704.8	3800.7	3882.5	3950.0
-57.5°	2080.5	2275.8	2461.1	2637.8	2801.4	2951.3	3081.9	3195.0	3293.9	3378.3	3447.8
-60°	1648.3	1807.8	1974.3	2131.0	2275.8	2408.5	2532.0	2642.1	2738.2	2820.2	2887.7
-62.5°	1249.3	1385.2	1521.4	1648.3	1765.5	1879.0	1987.6	2084.2	2168.6	2240.4	2299.6
-65°	903.8	1013.7	1116.8	1212.7	1302.0	1398.4	1485.4	1562.9	1630.5	1688.0	1735.3
-67.5°	616.6	695.2	768.8	837.2	910.7	982.8	1047.9	1105.7	1156.2	1199.1	1234.5
-70°	396.7	441.9	484.2	531.4	587.1	637.9	683.7	724.4	759.9	790.0	814.9
-72.5°	237.0	262.6	289.6	323.7	355.2	383.9	409.8	432.8	452.9	469.9	483.9
-75°	124.5	139.1	159.5	178.5	195.9	211.8	226.1	238.8	249.9	259.3	267.1
-77.5°	60.6	70.2	79.2	87.6	95.3	102.3	108.6	114.2	119.1	123.2	126.6
-80°	36.6	38.9	41.0	43.1	44.9	46.6	48.1	49.5	50.6	51.6	52.4
-82.5°	19.9	21.3	22.5	23.7	24.8	25.8	26.7	27.5	28.2	28.8	29.2
-85°	8.4	8.8	9.2	9.5	9.8	10.1	10.4	10.6	10.8	11.0	11.1
-87.5°	2.5	2.6	2.7	2.7	2.8	2.9	2.9	3.0	3.0	3.0	3.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699942 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4S-S

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°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0
85°	11.3	11.3	11.4	11.4	11.4	11.3	11.3	11.1	11.0	10.8	10.6
82.5°	29.6	29.9	30.0	30.1	30.0	29.9	29.6	29.2	28.8	28.2	27.5
80°	53.1	53.5	53.8	53.9	53.8	53.5	53.1	52.4	51.6	50.6	49.5
77.5°	129.3	131.2	132.3	132.7	132.3	131.2	129.3	126.6	123.2	119.1	114.2
75°	273.1	277.4	280.0	280.9	280.0	277.4	273.1	267.1	259.3	249.9	238.8
72.5°	494.8	502.6	507.3	508.9	507.3	502.6	494.8	483.9	469.9	452.9	432.8
70°	834.2	848.1	856.4	859.2	856.4	848.1	834.2	814.9	790.0	759.9	724.4
67.5°	1262.0	1281.8	1293.6	1297.6	1293.6	1281.8	1262.0	1234.5	1199.1	1156.2	1105.7
65°	1772.3	1798.8	1814.7	1820.0	1814.7	1798.8	1772.3	1735.3	1688.0	1630.5	1562.9
62.5°	2345.8	2378.9	2398.9	2405.5	2398.9	2378.9	2345.8	2299.6	2240.4	2168.6	2084.2
60°	2940.5	2978.3	3001.1	3008.7	3001.1	2978.3	2940.5	2887.7	2820.2	2738.2	2642.1
57.5°	3502.2	3541.2	3564.7	3572.5	3564.7	3541.2	3502.2	3447.8	3378.3	3293.9	3195.0
55°	4002.8	4040.7	4063.5	4071.1	4063.5	4040.7	4002.8	3950.0	3882.5	3800.7	3704.8
52.5°	4532.6	4577.8	4605.0	4614.1	4605.0	4577.8	4532.6	4469.7	4389.3	4291.9	4177.9
50°	5265.7	5336.5	5379.2	5393.5	5379.2	5336.5	5265.7	5167.0	5041.1	4888.7	4710.6
47.5°	5968.7	6038.2	6080.1	6094.1	6080.1	6038.2	5968.7	5872.0	5748.7	5599.7	5425.7
45°	7075.8	7207.8	7287.4	7314.0	7287.4	7207.8	7075.8	6892.4	6658.9	6376.9	6067.8
42.5°	10027.2	10433.8	10679.1	10761.1	10679.1	10433.8	10027.2	9462.9	8745.3	7880.1	7158.1
40°	16131.2	17030.9	17574.2	17755.9	17574.2	17030.9	16131.2	14883.9	13300.5	11394.8	9983.2
37.5°	24449.6	25709.0	26470.3	26725.1	26470.3	25709.0	24449.6	22706.2	20497.0	17844.2	15429.1
35°	33899.8	35424.8	36348.0	36657.1	36348.0	35424.8	33899.8	31792.2	29127.8	26013.1	22686.0
32.5°	45036.3	47064.7	48294.4	48706.5	48294.4	47064.7	45036.3	42239.4	38713.1	34881.7	30889.3
30°	58048.6	60651.2	62232.1	62762.4	62232.1	60651.2	58048.6	54469.7	49972.9	45207.6	39954.9
27.5°	74205.3	77925.4	80190.8	80951.6	80190.8	77925.4	74205.3	69107.4	62736.5	56902.1	50250.7
25°	97629.6	104077.2	108016.1	109341.2	108016.1	104077.2	97629.6	88833.0	78986.8	70732.5	61693.2
22.5°	126901.5	135189.9	140274.8	141989.4	140274.8	135189.9	126901.5	115658.8	102749.7	88631.4	75696.5
20°	162152.1	174230.6	181683.8	184204.8	181683.8	174230.6	162152.1	145894.4	129602.7	111767.4	94159.4
17.5°	205084.5	221971.3	232477.0	236046.5	232477.0	221971.3	205084.5	182892.5	160708.0	136831.9	115176.4
15°	251477.6	270336.9	282211.3	286273.4	282211.3	270336.9	251477.6	226427.6	195956.6	165789.1	136831.9
12.5°	293792.4	311492.3	322213.0	325738.2	322213.0	311492.3	293792.4	267028.1	233828.4	195956.6	160708.0
10°	326070.1	343818.1	354311.8	357943.8	354311.8	343818.1	326070.1	301098.5	267028.1	226427.6	182892.5
7.5°	350893.7	369436.4	381196.2	385055.1	381196.2	369436.4	350893.7	326070.1	293792.4	251477.6	205084.5
5°	369436.4	389200.8	401052.5	405099.9	401052.5	389200.8	369436.4	343818.1	311492.3	270336.9	221971.3
2.5°	381196.2	401052.5	412545.3	416299.4	412545.3	401052.5	381196.2	354311.8	322213.0	282211.3	232477.0
0°	385055.1	405099.9	416299.4	420553.9	416299.4	405099.9	385055.1	357943.8	325738.2	286273.4	236046.5
-2.5°	381196.2	401052.5	412545.3	416299.4	412545.3	401052.5	381196.2	354311.8	322213.0	282211.3	232477.0
-5°	369436.4	389200.8	401052.5	405099.9	401052.5	389200.8	369436.4	343818.1	311492.3	270336.9	221971.3
-7.5°	350893.7	369436.4	381196.2	385055.1	381196.2	369436.4	350893.7	326070.1	293792.4	251477.6	205084.5
-10°	326070.1	343818.1	354311.8	357943.8	354311.8	343818.1	326070.1	301098.5	267028.1	226427.6	182892.5
-12.5°	293792.4	311492.3	322213.0	325738.2	322213.0	311492.3	293792.4	267028.1	233828.4	195956.6	160708.0
-15°	251477.6	270336.9	282211.3	286273.4	282211.3	270336.9	251477.6	226427.6	195956.6	165789.1	136831.9
-17.5°	205084.5	221971.3	232477.0	236046.5	232477.0	221971.3	205084.5	182892.5	160708.0	136831.9	115176.4
-20°	162152.1	174230.6	181683.8	184204.8	181683.8	174230.6	162152.1	145894.4	129602.7	111767.4	94159.4



REPORT NUMBER: P699942 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4S-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	126901.5	135189.9	140274.8	141989.4	140274.8	135189.9	126901.5	115658.8	102749.7	88631.4	75696.5
-25°	97629.6	104077.2	108016.1	109341.2	108016.1	104077.2	97629.6	88833.0	78986.8	70732.5	61693.2
-27.5°	74205.3	77925.4	80190.8	80951.6	80190.8	77925.4	74205.3	69107.4	62736.5	56902.1	50250.7
-30°	58048.6	60651.2	62232.1	62762.4	62232.1	60651.2	58048.6	54469.7	49972.9	45207.6	39954.9
-32.5°	45036.3	47064.7	48294.4	48706.5	48294.4	47064.7	45036.3	42239.4	38713.1	34881.7	30889.3
-35°	33899.8	35424.8	36348.0	36657.1	36348.0	35424.8	33899.8	31792.2	29127.8	26013.1	22686.0
-37.5°	24449.6	25709.0	26470.3	26725.1	26470.3	25709.0	24449.6	22706.2	20497.0	17844.2	15429.1
-40°	16131.2	17030.9	17574.2	17755.9	17574.2	17030.9	16131.2	14883.9	13300.5	11394.8	9983.2
-42.5°	10027.2	10433.8	10679.1	10761.1	10679.1	10433.8	10027.2	9462.9	8745.3	7880.1	7158.1
-45°	7075.8	7207.8	7287.4	7314.0	7287.4	7207.8	7075.8	6892.4	6658.9	6376.9	6067.8
-47.5°	5968.7	6038.2	6080.1	6094.1	6080.1	6038.2	5968.7	5872.0	5748.7	5599.7	5425.7
-50°	5265.7	5336.5	5379.2	5393.5	5379.2	5336.5	5265.7	5167.0	5041.1	4888.7	4710.6
-52.5°	4532.6	4577.8	4605.0	4614.1	4605.0	4577.8	4532.6	4469.7	4389.3	4291.9	4177.9
-55°	4002.8	4040.7	4063.5	4071.1	4063.5	4040.7	4002.8	3950.0	3882.5	3800.7	3704.8
-57.5°	3502.2	3541.2	3564.7	3572.5	3564.7	3541.2	3502.2	3447.8	3378.3	3293.9	3195.0
-60°	2940.5	2978.3	3001.1	3008.7	3001.1	2978.3	2940.5	2887.7	2820.2	2738.2	2642.1
-62.5°	2345.8	2378.9	2398.9	2405.5	2398.9	2378.9	2345.8	2299.6	2240.4	2168.6	2084.2
-65°	1772.3	1798.8	1814.7	1820.0	1814.7	1798.8	1772.3	1735.3	1688.0	1630.5	1562.9
-67.5°	1262.0	1281.8	1293.6	1297.6	1293.6	1281.8	1262.0	1234.5	1199.1	1156.2	1105.7
-70°	834.2	848.1	856.4	859.2	856.4	848.1	834.2	814.9	790.0	759.9	724.4
-72.5°	494.8	502.6	507.3	508.9	507.3	502.6	494.8	483.9	469.9	452.9	432.8
-75°	273.1	277.4	280.0	280.9	280.0	277.4	273.1	267.1	259.3	249.9	238.8
-77.5°	129.3	131.2	132.3	132.7	132.3	131.2	129.3	126.6	123.2	119.1	114.2
-80°	53.1	53.5	53.8	53.9	53.8	53.5	53.1	52.4	51.6	50.6	49.5
-82.5°	29.6	29.9	30.0	30.1	30.0	29.9	29.6	29.2	28.8	28.2	27.5
-85°	11.3	11.3	11.4	11.4	11.4	11.3	11.3	11.1	11.0	10.8	10.6
-87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0
-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: P699942 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4S-S

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°	2.9	2.9	2.8	2.7	2.7	2.6	2.5	2.5	2.4	2.3	2.2
85°	10.4	10.1	9.8	9.5	9.2	8.8	8.4	8.0	7.5	7.0	6.5
82.5°	26.7	25.8	24.8	23.7	22.5	21.3	19.9	18.5	16.9	15.3	13.6
80°	48.1	46.6	44.9	43.1	41.0	38.9	36.6	34.1	31.5	29.0	26.8
77.5°	108.6	102.3	95.3	87.6	79.2	70.2	60.6	52.8	49.6	46.1	42.5
75°	226.1	211.8	195.9	178.5	159.5	139.1	124.5	112.2	99.2	85.4	71.1
72.5°	409.8	383.9	355.2	323.7	289.6	262.6	237.0	209.9	181.2	151.0	125.7
70°	683.7	637.9	587.1	531.4	484.2	441.9	396.7	348.8	298.1	257.5	221.4
67.5°	1047.9	982.8	910.7	837.2	768.8	695.2	616.6	533.3	467.6	407.5	344.7
65°	1485.4	1398.4	1302.0	1212.7	1116.8	1013.7	903.8	801.7	703.6	600.7	498.7
62.5°	1987.6	1879.0	1765.5	1648.3	1521.4	1385.2	1249.3	1120.4	984.6	845.7	727.0
60°	2532.0	2408.5	2275.8	2131.0	1974.3	1807.8	1648.3	1479.5	1302.0	1145.3	982.8
57.5°	3081.9	2951.3	2801.4	2637.8	2461.1	2275.8	2080.5	1874.1	1674.8	1472.5	1267.7
55°	3595.4	3459.7	3306.7	3139.9	2956.6	2750.7	2532.0	2304.3	2069.3	1823.9	1595.9
52.5°	4049.8	3916.2	3769.0	3608.8	3418.4	3209.9	2987.4	2738.2	2477.1	2210.7	1936.3
50°	4539.9	4382.0	4208.2	4023.5	3836.9	3638.0	3408.3	3157.8	2887.7	2595.8	2296.4
47.5°	5209.1	4963.5	4693.7	4465.7	4246.7	4018.3	3792.2	3552.3	3271.8	2978.3	2655.5
45°	5853.4	5614.7	5348.5	5033.3	4695.5	4420.8	4157.2	3896.4	3631.9	3329.3	3008.7
42.5°	6754.4	6305.9	5933.9	5629.4	5293.8	4909.9	4538.7	4244.3	3948.9	3657.8	3329.3
40°	8750.5	7384.0	6811.0	6242.3	5830.9	5462.5	5040.1	4598.1	4273.5	3948.9	3631.9
37.5°	12727.4	10258.3	8656.7	7180.1	6532.4	5953.5	5542.7	5083.8	4598.1	4244.3	3896.4
35°	18945.4	15469.2	11982.7	9522.7	7571.4	6679.0	5994.6	5542.7	5040.1	4538.7	4157.2
32.5°	26446.9	22013.3	17339.5	13351.5	9961.1	7784.9	6679.0	5953.5	5462.5	4909.9	4420.8
30°	34546.2	29267.5	23891.2	18438.2	13811.9	9961.1	7571.4	6532.4	5830.9	5293.8	4695.5
27.5°	43702.6	36820.4	30716.3	24523.6	18438.2	13351.5	9522.7	7180.1	6242.3	5629.4	5033.3
25°	53719.8	45612.7	37739.4	30716.3	23891.2	17339.5	11982.7	8656.7	6811.0	5933.9	5348.5
22.5°	64551.0	54892.7	45612.7	36820.4	29267.5	22013.3	15469.2	10258.3	7384.0	6305.9	5614.7
20°	77380.0	64551.0	53719.8	43702.6	34546.2	26446.9	18945.4	12727.4	8750.5	6754.4	5853.4
17.5°	94159.4	75696.5	61693.2	50250.7	39954.9	30889.3	22686.0	15429.1	9983.2	7158.1	6067.8
15°	111767.4	88631.4	70732.5	56902.1	45207.6	34881.7	26013.1	17844.2	11394.8	7880.1	6376.9
12.5°	129602.7	102749.7	78986.8	62736.5	49972.9	38713.1	29127.8	20497.0	13300.5	8745.3	6658.9
10°	145894.4	115658.8	88833.0	69107.4	54469.7	42239.4	31792.2	22706.2	14883.9	9462.9	6892.4
7.5°	162152.1	126901.5	97629.6	74205.3	58048.6	45036.3	33899.8	24449.6	16131.2	10027.2	7075.8
5°	174230.6	135189.9	104077.2	77925.4	60651.2	47064.7	35424.8	25709.0	17030.9	10433.8	7207.8
2.5°	181683.8	140274.8	108016.1	80190.8	62232.1	48294.4	36348.0	26470.3	17574.2	10679.1	7287.4
0°	184204.8	141989.4	109341.2	80951.6	62762.4	48706.5	36657.1	26725.1	17755.9	10761.1	7314.0
-2.5°	181683.8	140274.8	108016.1	80190.8	62232.1	48294.4	36348.0	26470.3	17574.2	10679.1	7287.4
-5°	174230.6	135189.9	104077.2	77925.4	60651.2	47064.7	35424.8	25709.0	17030.9	10433.8	7207.8
-7.5°	162152.1	126901.5	97629.6	74205.3	58048.6	45036.3	33899.8	24449.6	16131.2	10027.2	7075.8
-10°	145894.4	115658.8	88833.0	69107.4	54469.7	42239.4	31792.2	22706.2	14883.9	9462.9	6892.4
-12.5°	129602.7	102749.7	78986.8	62736.5	49972.9	38713.1	29127.8	20497.0	13300.5	8745.3	6658.9
-15°	111767.4	88631.4	70732.5	56902.1	45207.6	34881.7	26013.1	17844.2	11394.8	7880.1	6376.9
-17.5°	94159.4	75696.5	61693.2	50250.7	39954.9	30889.3	22686.0	15429.1	9983.2	7158.1	6067.8
-20°	77380.0	64551.0	53719.8	43702.6	34546.2	26446.9	18945.4	12727.4	8750.5	6754.4	5853.4



REPORT NUMBER: P699942 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4S-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	64551.0	54892.7	45612.7	36820.4	29267.5	22013.3	15469.2	10258.3	7384.0	6305.9	5614.7
-25°	53719.8	45612.7	37739.4	30716.3	23891.2	17339.5	11982.7	8656.7	6811.0	5933.9	5348.5
-27.5°	43702.6	36820.4	30716.3	24523.6	18438.2	13351.5	9522.7	7180.1	6242.3	5629.4	5033.3
-30°	34546.2	29267.5	23891.2	18438.2	13811.9	9961.1	7571.4	6532.4	5830.9	5293.8	4695.5
-32.5°	26446.9	22013.3	17339.5	13351.5	9961.1	7784.9	6679.0	5953.5	5462.5	4909.9	4420.8
-35°	18945.4	15469.2	11982.7	9522.7	7571.4	6679.0	5994.6	5542.7	5040.1	4538.7	4157.2
-37.5°	12727.4	10258.3	8656.7	7180.1	6532.4	5953.5	5542.7	5083.8	4598.1	4244.3	3896.4
-40°	8750.5	7384.0	6811.0	6242.3	5830.9	5462.5	5040.1	4598.1	4273.5	3948.9	3631.9
-42.5°	6754.4	6305.9	5933.9	5629.4	5293.8	4909.9	4538.7	4244.3	3948.9	3657.8	3329.3
-45°	5853.4	5614.7	5348.5	5033.3	4695.5	4420.8	4157.2	3896.4	3631.9	3329.3	3008.7
-47.5°	5209.1	4963.5	4693.7	4465.7	4246.7	4018.3	3792.2	3552.3	3271.8	2978.3	2655.5
-50°	4539.9	4382.0	4208.2	4023.5	3836.9	3638.0	3408.3	3157.8	2887.7	2595.8	2296.4
-52.5°	4049.8	3916.2	3769.0	3608.8	3418.4	3209.9	2987.4	2738.2	2477.1	2210.7	1936.3
-55°	3595.4	3459.7	3306.7	3139.9	2956.6	2750.7	2532.0	2304.3	2069.3	1823.9	1595.9
-57.5°	3081.9	2951.3	2801.4	2637.8	2461.1	2275.8	2080.5	1874.1	1674.8	1472.5	1267.7
-60°	2532.0	2408.5	2275.8	2131.0	1974.3	1807.8	1648.3	1479.5	1302.0	1145.3	982.8
-62.5°	1987.6	1879.0	1765.5	1648.3	1521.4	1385.2	1249.3	1120.4	984.6	845.7	727.0
-65°	1485.4	1398.4	1302.0	1212.7	1116.8	1013.7	903.8	801.7	703.6	600.7	498.7
-67.5°	1047.9	982.8	910.7	837.2	768.8	695.2	616.6	533.3	467.6	407.5	344.7
-70°	683.7	637.9	587.1	531.4	484.2	441.9	396.7	348.8	298.1	257.5	221.4
-72.5°	409.8	383.9	355.2	323.7	289.6	262.6	237.0	209.9	181.2	151.0	125.7
-75°	226.1	211.8	195.9	178.5	159.5	139.1	124.5	112.2	99.2	85.4	71.1
-77.5°	108.6	102.3	95.3	87.6	79.2	70.2	60.6	52.8	49.6	46.1	42.5
-80°	48.1	46.6	44.9	43.1	41.0	38.9	36.6	34.1	31.5	29.0	26.8
-82.5°	26.7	25.8	24.8	23.7	22.5	21.3	19.9	18.5	16.9	15.3	13.6
-85°	10.4	10.1	9.8	9.5	9.2	8.8	8.4	8.0	7.5	7.0	6.5
-87.5°	2.9	2.9	2.8	2.7	2.7	2.6	2.5	2.5	2.4	2.3	2.2
-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: P699942 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4S-S

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°	2.1	2.0	1.9	1.8	1.7	1.5	1.4	1.3	1.2	1.1	0.9
85°	6.0	5.5	4.9	4.3	3.7	3.1	2.9	2.6	2.4	2.1	1.9
82.5°	11.8	10.8	9.9	9.1	8.2	7.2	6.3	5.3	4.3	3.3	2.8
80°	24.4	21.9	19.4	16.8	14.0	11.3	10.1	8.8	7.5	6.1	4.7
77.5°	38.7	34.8	30.8	27.3	24.0	20.5	16.9	13.3	10.6	8.9	7.2
75°	56.1	49.9	45.0	40.0	34.8	29.6	25.3	21.0	16.5	12.0	9.6
72.5°	108.2	90.0	71.2	53.3	47.2	41.0	34.7	28.6	23.4	18.2	12.8
70°	183.7	144.6	117.5	95.3	72.5	52.4	45.2	37.8	30.3	24.2	18.2
67.5°	279.9	235.8	190.3	143.3	112.7	86.4	59.5	47.3	38.9	30.3	23.4
65°	425.9	350.5	275.5	223.3	169.7	123.2	93.4	63.0	47.3	37.8	28.6
62.5°	603.8	487.5	401.8	313.5	243.3	183.0	126.7	93.4	59.5	45.2	34.7
60°	823.1	683.7	539.9	432.8	334.2	249.9	183.0	123.2	86.4	52.4	41.0
57.5°	1084.4	895.0	732.0	571.9	443.2	334.2	243.3	169.7	112.7	72.5	47.2
55°	1360.1	1145.9	935.8	748.2	571.9	432.8	313.5	223.3	143.3	95.3	53.3
52.5°	1670.6	1409.5	1166.4	935.8	732.0	539.9	401.8	275.5	190.3	117.5	71.2
50°	1992.9	1695.6	1409.5	1145.9	895.0	683.7	487.5	350.5	235.8	144.6	90.0
47.5°	2325.0	1992.9	1670.6	1360.1	1084.4	823.1	603.8	425.9	279.9	183.7	108.2
45°	2655.5	2296.4	1936.3	1595.9	1267.7	982.8	727.0	498.7	344.7	221.4	125.7
42.5°	2978.3	2595.8	2210.7	1823.9	1472.5	1145.3	845.7	600.7	407.5	257.5	151.0
40°	3271.8	2887.7	2477.1	2069.3	1674.8	1302.0	984.6	703.6	467.6	298.1	181.2
37.5°	3552.3	3157.8	2738.2	2304.3	1874.1	1479.5	1120.4	801.7	533.3	348.8	209.9
35°	3792.2	3408.3	2987.4	2532.0	2080.5	1648.3	1249.3	903.8	616.6	396.7	237.0
32.5°	4018.3	3638.0	3209.9	2750.7	2275.8	1807.8	1385.2	1013.7	695.2	441.9	262.6
30°	4246.7	3836.9	3418.4	2956.6	2461.1	1974.3	1521.4	1116.8	768.8	484.2	289.6
27.5°	4465.7	4023.5	3608.8	3139.9	2637.8	2131.0	1648.3	1212.7	837.2	531.4	323.7
25°	4693.7	4208.2	3769.0	3306.7	2801.4	2275.8	1765.5	1302.0	910.7	587.1	355.2
22.5°	4963.5	4382.0	3916.2	3459.7	2951.3	2408.5	1879.0	1398.4	982.8	637.9	383.9
20°	5209.1	4539.9	4049.8	3595.4	3081.9	2532.0	1987.6	1485.4	1047.9	683.7	409.8
17.5°	5425.7	4710.6	4177.9	3704.8	3195.0	2642.1	2084.2	1562.9	1105.7	724.4	432.8
15°	5599.7	4888.7	4291.9	3800.7	3293.9	2738.2	2168.6	1630.5	1156.2	759.9	452.9
12.5°	5748.7	5041.1	4389.3	3882.5	3378.3	2820.2	2240.4	1688.0	1199.1	790.0	469.9
10°	5872.0	5167.0	4469.7	3950.0	3447.8	2887.7	2299.6	1735.3	1234.5	814.9	483.9
7.5°	5968.7	5265.7	4532.6	4002.8	3502.2	2940.5	2345.8	1772.3	1262.0	834.2	494.8
5°	6038.2	5336.5	4577.8	4040.7	3541.2	2978.3	2378.9	1798.8	1281.8	848.1	502.6
2.5°	6080.1	5379.2	4605.0	4063.5	3564.7	3001.1	2398.9	1814.7	1293.6	856.4	507.3
0°	6094.1	5393.5	4614.1	4071.1	3572.5	3008.7	2405.5	1820.0	1297.6	859.2	508.9
-2.5°	6080.1	5379.2	4605.0	4063.5	3564.7	3001.1	2398.9	1814.7	1293.6	856.4	507.3
-5°	6038.2	5336.5	4577.8	4040.7	3541.2	2978.3	2378.9	1798.8	1281.8	848.1	502.6
-7.5°	5968.7	5265.7	4532.6	4002.8	3502.2	2940.5	2345.8	1772.3	1262.0	834.2	494.8
-10°	5872.0	5167.0	4469.7	3950.0	3447.8	2887.7	2299.6	1735.3	1234.5	814.9	483.9
-12.5°	5748.7	5041.1	4389.3	3882.5	3378.3	2820.2	2240.4	1688.0	1199.1	790.0	469.9
-15°	5599.7	4888.7	4291.9	3800.7	3293.9	2738.2	2168.6	1630.5	1156.2	759.9	452.9
-17.5°	5425.7	4710.6	4177.9	3704.8	3195.0	2642.1	2084.2	1562.9	1105.7	724.4	432.8
-20°	5209.1	4539.9	4049.8	3595.4	3081.9	2532.0	1987.6	1485.4	1047.9	683.7	409.8



REPORT NUMBER: P699942 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4S-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	4963.5	4382.0	3916.2	3459.7	2951.3	2408.5	1879.0	1398.4	982.8	637.9	383.9
-25°	4693.7	4208.2	3769.0	3306.7	2801.4	2275.8	1765.5	1302.0	910.7	587.1	355.2
-27.5°	4465.7	4023.5	3608.8	3139.9	2637.8	2131.0	1648.3	1212.7	837.2	531.4	323.7
-30°	4246.7	3836.9	3418.4	2956.6	2461.1	1974.3	1521.4	1116.8	768.8	484.2	289.6
-32.5°	4018.3	3638.0	3209.9	2750.7	2275.8	1807.8	1385.2	1013.7	695.2	441.9	262.6
-35°	3792.2	3408.3	2987.4	2532.0	2080.5	1648.3	1249.3	903.8	616.6	396.7	237.0
-37.5°	3552.3	3157.8	2738.2	2304.3	1874.1	1479.5	1120.4	801.7	533.3	348.8	209.9
-40°	3271.8	2887.7	2477.1	2069.3	1674.8	1302.0	984.6	703.6	467.6	298.1	181.2
-42.5°	2978.3	2595.8	2210.7	1823.9	1472.5	1145.3	845.7	600.7	407.5	257.5	151.0
-45°	2655.5	2296.4	1936.3	1595.9	1267.7	982.8	727.0	498.7	344.7	221.4	125.7
-47.5°	2325.0	1992.9	1670.6	1360.1	1084.4	823.1	603.8	425.9	279.9	183.7	108.2
-50°	1992.9	1695.6	1409.5	1145.9	895.0	683.7	487.5	350.5	235.8	144.6	90.0
-52.5°	1670.6	1409.5	1166.4	935.8	732.0	539.9	401.8	275.5	190.3	117.5	71.2
-55°	1360.1	1145.9	935.8	748.2	571.9	432.8	313.5	223.3	143.3	95.3	53.3
-57.5°	1084.4	895.0	732.0	571.9	443.2	334.2	243.3	169.7	112.7	72.5	47.2
-60°	823.1	683.7	539.9	432.8	334.2	249.9	183.0	123.2	86.4	52.4	41.0
-62.5°	603.8	487.5	401.8	313.5	243.3	183.0	126.7	93.4	59.5	45.2	34.7
-65°	425.9	350.5	275.5	223.3	169.7	123.2	93.4	63.0	47.3	37.8	28.6
-67.5°	279.9	235.8	190.3	143.3	112.7	86.4	59.5	47.3	38.9	30.3	23.4
-70°	183.7	144.6	117.5	95.3	72.5	52.4	45.2	37.8	30.3	24.2	18.2
-72.5°	108.2	90.0	71.2	53.3	47.2	41.0	34.7	28.6	23.4	18.2	12.8
-75°	56.1	49.9	45.0	40.0	34.8	29.6	25.3	21.0	16.5	12.0	9.6
-77.5°	38.7	34.8	30.8	27.3	24.0	20.5	16.9	13.3	10.6	8.9	7.2
-80°	24.4	21.9	19.4	16.8	14.0	11.3	10.1	8.8	7.5	6.1	4.7
-82.5°	11.8	10.8	9.9	9.1	8.2	7.2	6.3	5.3	4.3	3.3	2.8
-85°	6.0	5.5	4.9	4.3	3.7	3.1	2.9	2.6	2.4	2.1	1.9
-87.5°	2.1	2.0	1.9	1.8	1.7	1.5	1.4	1.3	1.2	1.1	0.9
-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: P699942 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4S-S

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°	0.8	0.7	0.5	0.4	0.3	0.1	0.0
85°	1.6	1.3	1.1	0.8	0.5	0.3	0.0
82.5°	2.4	2.0	1.6	1.2	0.8	0.4	0.0
80°	3.4	2.7	2.1	1.6	1.1	0.5	0.0
77.5°	5.5	3.7	2.7	2.0	1.3	0.7	0.0
75°	7.6	5.5	3.4	2.4	1.6	0.8	0.0
72.5°	9.6	7.2	4.7	2.8	1.9	0.9	0.0
70°	12.0	8.9	6.1	3.3	2.1	1.1	0.0
67.5°	16.5	10.6	7.5	4.3	2.4	1.2	0.0
65°	21.0	13.3	8.8	5.3	2.6	1.3	0.0
62.5°	25.3	16.9	10.1	6.3	2.9	1.4	0.0
60°	29.6	20.5	11.3	7.2	3.1	1.5	0.0
57.5°	34.8	24.0	14.0	8.2	3.7	1.7	0.0
55°	40.0	27.3	16.8	9.1	4.3	1.8	0.0
52.5°	45.0	30.8	19.4	9.9	4.9	1.9	0.0
50°	49.9	34.8	21.9	10.8	5.5	2.0	0.0
47.5°	56.1	38.7	24.4	11.8	6.0	2.1	0.0
45°	71.1	42.5	26.8	13.6	6.5	2.2	0.0
42.5°	85.4	46.1	29.0	15.3	7.0	2.3	0.0
40°	99.2	49.6	31.5	16.9	7.5	2.4	0.0
37.5°	112.2	52.8	34.1	18.5	8.0	2.5	0.0
35°	124.5	60.6	36.6	19.9	8.4	2.5	0.0
32.5°	139.1	70.2	38.9	21.3	8.8	2.6	0.0
30°	159.5	79.2	41.0	22.5	9.2	2.7	0.0
27.5°	178.5	87.6	43.1	23.7	9.5	2.7	0.0
25°	195.9	95.3	44.9	24.8	9.8	2.8	0.0
22.5°	211.8	102.3	46.6	25.8	10.1	2.9	0.0
20°	226.1	108.6	48.1	26.7	10.4	2.9	0.0
17.5°	238.8	114.2	49.5	27.5	10.6	3.0	0.0
15°	249.9	119.1	50.6	28.2	10.8	3.0	0.0
12.5°	259.3	123.2	51.6	28.8	11.0	3.0	0.0
10°	267.1	126.6	52.4	29.2	11.1	3.1	0.0
7.5°	273.1	129.3	53.1	29.6	11.3	3.1	0.0
5°	277.4	131.2	53.5	29.9	11.3	3.1	0.0
2.5°	280.0	132.3	53.8	30.0	11.4	3.1	0.0
0°	280.9	132.7	53.9	30.1	11.4	3.1	0.0
-2.5°	280.0	132.3	53.8	30.0	11.4	3.1	0.0
-5°	277.4	131.2	53.5	29.9	11.3	3.1	0.0
-7.5°	273.1	129.3	53.1	29.6	11.3	3.1	0.0
-10°	267.1	126.6	52.4	29.2	11.1	3.1	0.0
-12.5°	259.3	123.2	51.6	28.8	11.0	3.0	0.0
-15°	249.9	119.1	50.6	28.2	10.8	3.0	0.0
-17.5°	238.8	114.2	49.5	27.5	10.6	3.0	0.0
-20°	226.1	108.6	48.1	26.7	10.4	2.9	0.0



REPORT NUMBER: P699942 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-4S-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	211.8	102.3	46.6	25.8	10.1	2.9	0.0
-25°	195.9	95.3	44.9	24.8	9.8	2.8	0.0
-27.5°	178.5	87.6	43.1	23.7	9.5	2.7	0.0
-30°	159.5	79.2	41.0	22.5	9.2	2.7	0.0
-32.5°	139.1	70.2	38.9	21.3	8.8	2.6	0.0
-35°	124.5	60.6	36.6	19.9	8.4	2.5	0.0
-37.5°	112.2	52.8	34.1	18.5	8.0	2.5	0.0
-40°	99.2	49.6	31.5	16.9	7.5	2.4	0.0
-42.5°	85.4	46.1	29.0	15.3	7.0	2.3	0.0
-45°	71.1	42.5	26.8	13.6	6.5	2.2	0.0
-47.5°	56.1	38.7	24.4	11.8	6.0	2.1	0.0
-50°	49.9	34.8	21.9	10.8	5.5	2.0	0.0
-52.5°	45.0	30.8	19.4	9.9	4.9	1.9	0.0
-55°	40.0	27.3	16.8	9.1	4.3	1.8	0.0
-57.5°	34.8	24.0	14.0	8.2	3.7	1.7	0.0
-60°	29.6	20.5	11.3	7.2	3.1	1.5	0.0
-62.5°	25.3	16.9	10.1	6.3	2.9	1.4	0.0
-65°	21.0	13.3	8.8	5.3	2.6	1.3	0.0
-67.5°	16.5	10.6	7.5	4.3	2.4	1.2	0.0
-70°	12.0	8.9	6.1	3.3	2.1	1.1	0.0
-72.5°	9.6	7.2	4.7	2.8	1.9	0.9	0.0
-75°	7.6	5.5	3.4	2.4	1.6	0.8	0.0
-77.5°	5.5	3.7	2.7	2.0	1.3	0.7	0.0
-80°	3.4	2.7	2.1	1.6	1.1	0.5	0.0
-82.5°	2.4	2.0	1.6	1.2	0.8	0.4	0.0
-85°	1.6	1.3	1.1	0.8	0.5	0.3	0.0
-87.5°	0.8	0.7	0.5	0.4	0.3	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)