

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: P699945 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-70-5S-S**

Issue Date: 8/10/2023

**Test Information**

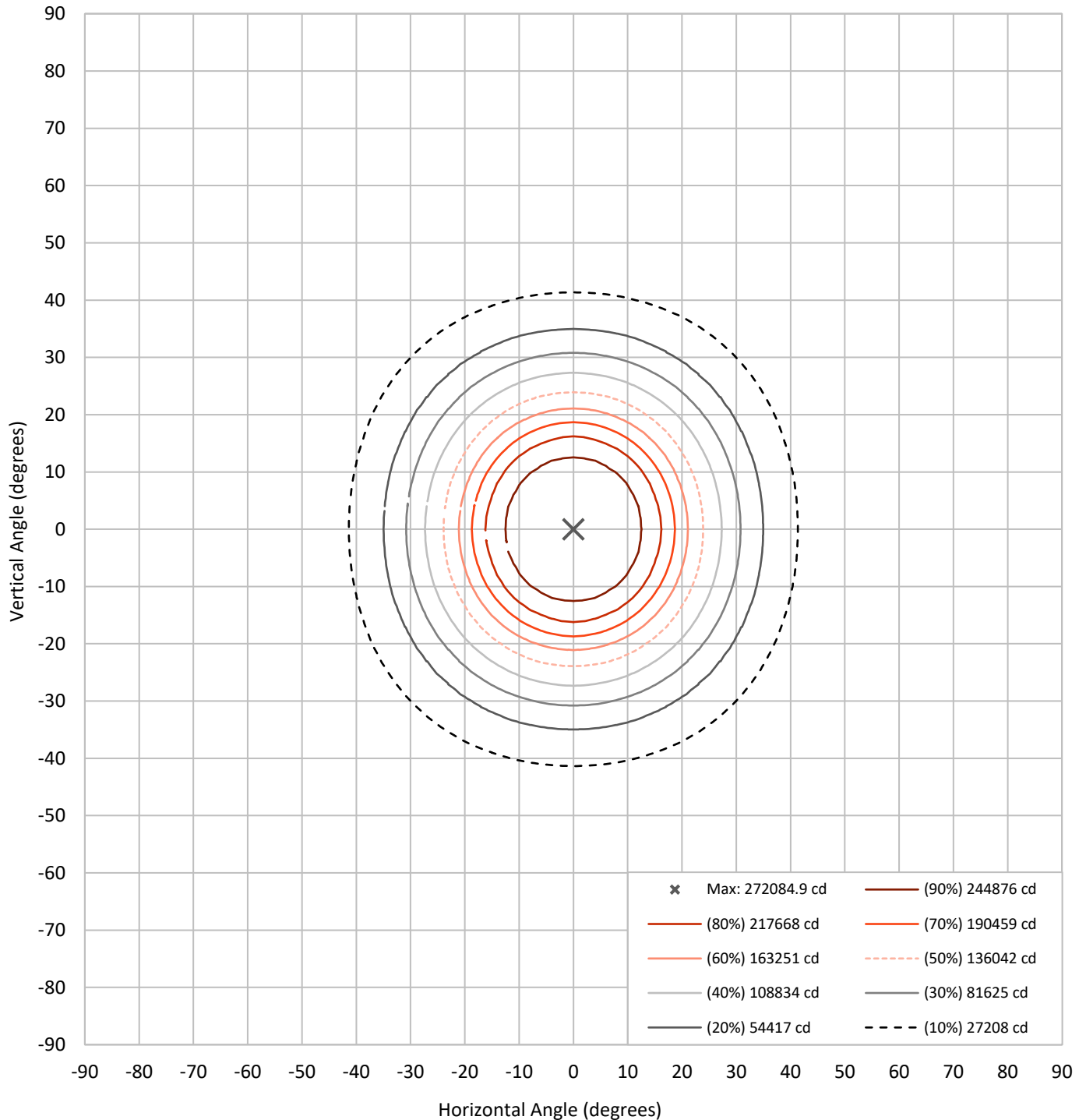
Test Method: LM-79-08  
Report Number: P699945 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200R-40-70-5S-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	198546.1 lumens	Max Intensity:	272084.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	159.5 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	47.8°H x 47.8°V	Field Angle (10%):	82.7°H x 82.7°V
Beam Lumens:	110666.6 lumens	Field Lumens:	182669 lumens
Beam Efficiency:	55.7%	Field Efficiency:	92.0%
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





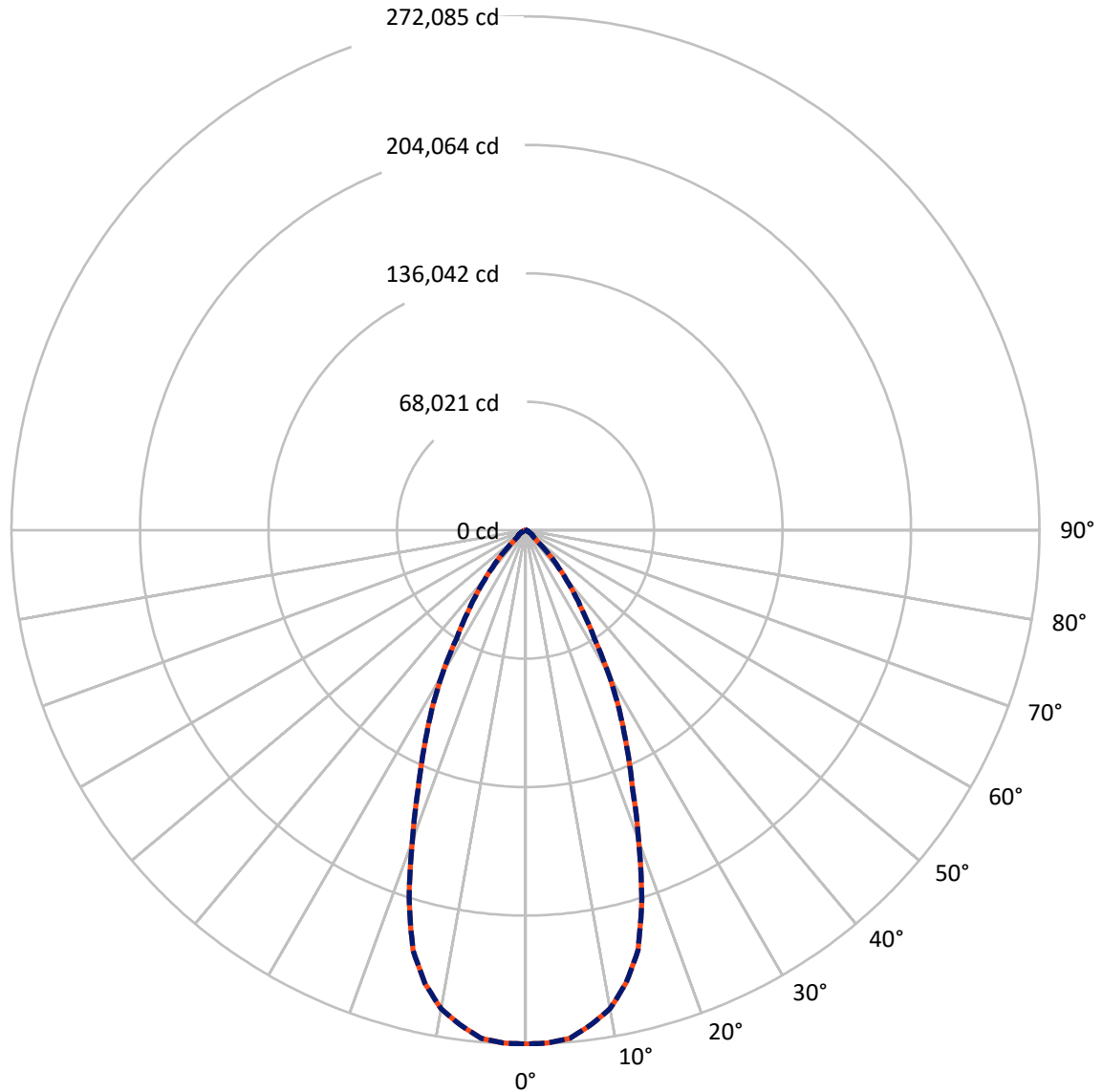
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### Lumen Table

90															90				
80	0.2	1.8		7.0		16.1		20.7		16.1		7.0		1.8		0.2			
70															70				
60	0.9	1.2	4.1	10.7	21.2	33.5	44.5	50.8	50.8	44.5	33.5	21.2	10.7	4.1	1.2	0.9			
		3.1	12.3	31.5	59.8	90.9	115.4	129.0	129.0	115.4	90.9	59.8	31.5	12.3	3.1				
50															50				
40	2.4	6.6	25.8	63.2	110.8	188.6	344.3	472.3	472.3	344.3	188.6	110.8	63.2	25.8	6.6	2.4			
		11.3	42.4	95.9	243.5	694.4	1241.7	1631.8	1631.8	1241.7	694.4	243.5	95.9	42.4	11.3				
30															30				
20	4.6	16.2	58.3	148.7	631.1	1565.5	2813.7	3732.4	3732.4	2813.7	1565.5	631.1	148.7	58.3	16.2	4.6			
		20.2	69.4	257.2	1061.0	2647.7	4801.6	6516.0	6516.0	4801.6	2647.7	1061.0	257.2	69.4	20.2				
10															10				
0	5.7	22.3	75.2	343.0	1353.8	3409.2	6326.3	7941.0	7941.0	6326.3	3409.2	1353.8	343.0	75.2	22.3	5.7			
		22.3	75.2	343.0	1353.8	3409.2	6326.3	7941.0	7941.0	6326.3	3409.2	1353.8	343.0	75.2	22.3				
-10															-10				
-20	4.6	20.2	69.4	257.2	1061.0	2647.7	4801.6	6516.0	6516.0	4801.6	2647.7	1061.0	257.2	69.4	20.2	4.6			
		16.2	58.3	148.7	631.1	1565.5	2813.7	3732.4	3732.4	2813.7	1565.5	631.1	148.7	58.3	16.2				
-30															-30				
-40	2.4	11.3	42.4	95.9	243.5	694.4	1241.7	1631.8	1631.8	1241.7	694.4	243.5	95.9	42.4	11.3	2.4			
		6.6	25.8	63.2	110.8	188.6	344.3	472.3	472.3	344.3	188.6	110.8	63.2	25.8	6.6				
-50															-50				
-60	0.9	3.1	12.3	31.5	59.8	90.9	115.4	129.0	129.0	115.4	90.9	59.8	31.5	12.3	3.1	0.9			
		1.2	4.1	10.7	21.2	33.5	44.5	50.8	50.8	44.5	33.5	21.2	10.7	4.1	1.2				
-70															-70				
-80	0.2	1.8		7.0		16.1		20.7		16.1		7.0		1.8		0.2			
-90															-90				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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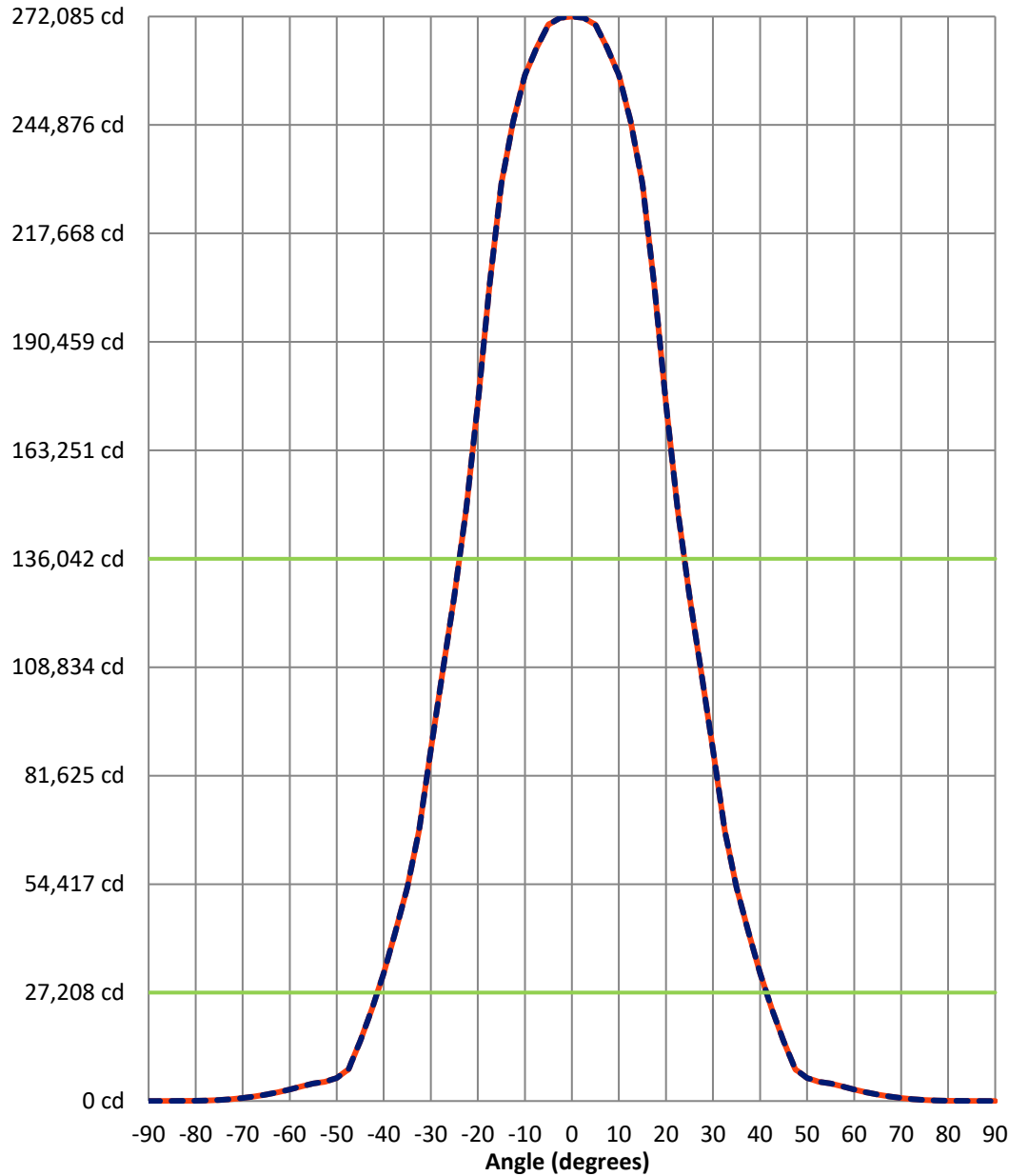
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
H Angle: 47.8°  
V Angle: 47.8°  
Lumens: 110666.6  
Efficiency: 55.7%

**Field:**  
H Angle: 82.7°  
V Angle: 82.7°  
Lumens: 182669  
Efficiency: 92.0%

**Spill:**  
Lumens: 15877  
Efficiency: 8.0%

— 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	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
85°	0.0	0.6	1.3	1.9	2.5	3.2	3.8	4.4	5.0	5.6	6.2
82.5°	0.0	1.0	1.9	2.9	3.8	4.7	5.7	6.6	7.7	9.7	11.7
80°	0.0	1.3	2.5	3.8	5.0	6.3	7.8	10.6	13.3	15.9	18.6
77.5°	0.0	1.6	3.2	4.7	6.3	8.5	12.0	15.4	18.8	22.2	25.9
75°	0.0	1.9	3.8	5.7	7.8	12.0	16.2	20.3	24.5	29.5	34.4
72.5°	0.0	2.2	4.4	6.6	10.6	15.4	20.3	25.4	31.3	37.2	42.9
70°	0.0	2.5	5.0	7.7	13.3	18.8	24.5	31.3	38.1	44.8	52.6
67.5°	0.0	2.8	5.6	9.7	15.9	22.2	29.5	37.2	44.8	53.7	62.5
65°	0.0	3.1	6.2	11.7	18.6	25.9	34.4	42.9	52.6	62.5	76.9
62.5°	0.0	3.4	6.7	13.6	21.2	29.9	39.3	49.4	60.3	74.0	102.1
60°	0.0	3.6	7.3	15.5	23.7	33.9	44.1	56.0	67.9	96.3	126.8
57.5°	0.0	3.9	8.5	17.3	26.7	37.8	49.5	62.4	84.8	118.1	166.3
55°	0.0	4.2	9.7	19.1	29.8	41.5	54.9	68.7	103.7	143.8	212.0
52.5°	0.0	4.4	10.9	20.9	32.7	45.3	60.1	83.7	122.1	183.9	256.6
50°	0.0	4.7	12.0	22.6	35.5	49.5	65.2	99.3	144.8	222.7	322.9
47.5°	0.0	4.9	13.1	24.3	38.3	53.6	71.2	114.4	178.2	260.4	389.7
45°	0.0	5.2	14.1	26.3	40.9	57.5	83.6	128.9	210.4	317.8	454.2
42.5°	0.0	5.4	15.1	28.1	43.4	61.3	95.5	150.3	241.2	373.4	542.0
40°	0.0	5.6	16.1	29.9	46.0	64.9	106.9	176.1	276.5	426.7	630.4
37.5°	0.0	5.8	17.0	31.7	48.8	68.3	117.7	200.6	321.4	484.2	714.6
35°	0.0	6.0	17.8	33.3	51.3	74.9	127.9	223.8	363.9	555.7	803.1
32.5°	0.0	6.2	18.6	34.8	53.7	82.9	140.2	245.6	403.9	623.2	899.8
30°	0.0	6.3	19.4	36.2	56.0	90.4	157.6	268.9	441.4	686.3	990.5
27.5°	0.0	6.5	20.1	37.5	58.1	97.3	173.8	299.2	482.6	745.0	1074.9
25°	0.0	6.6	20.7	38.7	60.0	103.7	188.7	327.1	530.4	809.2	1153.5
22.5°	0.0	6.7	21.3	39.8	61.8	109.5	202.2	352.5	574.0	872.6	1242.3
20°	0.0	6.9	21.8	40.8	63.4	114.7	214.5	375.5	613.3	929.9	1322.4
17.5°	0.0	7.0	22.3	41.7	64.8	119.4	225.3	395.9	648.2	980.7	1393.7
15°	0.0	7.1	22.7	42.5	66.0	123.4	234.8	413.6	678.6	1025.1	1455.9
12.5°	0.0	7.1	23.0	43.1	67.0	126.8	242.8	428.7	704.6	1062.9	1508.9
10°	0.0	7.2	23.3	43.6	67.9	129.7	249.4	441.1	725.8	1094.0	1552.4
7.5°	0.0	7.2	23.5	44.1	68.5	131.9	254.6	450.8	742.5	1118.2	1586.5
5°	0.0	7.3	23.7	44.4	69.0	133.4	258.2	457.7	754.4	1135.6	1610.9
2.5°	0.0	7.3	23.8	44.5	69.3	134.4	260.5	461.9	761.5	1146.0	1625.5
0°	0.0	7.3	23.8	44.6	69.4	134.7	261.2	463.3	763.9	1149.5	1630.4
-2.5°	0.0	7.3	23.8	44.5	69.3	134.4	260.5	461.9	761.5	1146.0	1625.5
-5°	0.0	7.3	23.7	44.4	69.0	133.4	258.2	457.7	754.4	1135.6	1610.9
-7.5°	0.0	7.2	23.5	44.1	68.5	131.9	254.6	450.8	742.5	1118.2	1586.5
-10°	0.0	7.2	23.3	43.6	67.9	129.7	249.4	441.1	725.8	1094.0	1552.4
-12.5°	0.0	7.1	23.0	43.1	67.0	126.8	242.8	428.7	704.6	1062.9	1508.9
-15°	0.0	7.1	22.7	42.5	66.0	123.4	234.8	413.6	678.6	1025.1	1455.9
-17.5°	0.0	7.0	22.3	41.7	64.8	119.4	225.3	395.9	648.2	980.7	1393.7
-20°	0.0	6.9	21.8	40.8	63.4	114.7	214.5	375.5	613.3	929.9	1322.4



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 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5S-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	6.7	21.3	39.8	61.8	109.5	202.2	352.5	574.0	872.6	1242.3
-25°	0.0	6.6	20.7	38.7	60.0	103.7	188.7	327.1	530.4	809.2	1153.5
-27.5°	0.0	6.5	20.1	37.5	58.1	97.3	173.8	299.2	482.6	745.0	1074.9
-30°	0.0	6.3	19.4	36.2	56.0	90.4	157.6	268.9	441.4	686.3	990.5
-32.5°	0.0	6.2	18.6	34.8	53.7	82.9	140.2	245.6	403.9	623.2	899.8
-35°	0.0	6.0	17.8	33.3	51.3	74.9	127.9	223.8	363.9	555.7	803.1
-37.5°	0.0	5.8	17.0	31.7	48.8	68.3	117.7	200.6	321.4	484.2	714.6
-40°	0.0	5.6	16.1	29.9	46.0	64.9	106.9	176.1	276.5	426.7	630.4
-42.5°	0.0	5.4	15.1	28.1	43.4	61.3	95.5	150.3	241.2	373.4	542.0
-45°	0.0	5.2	14.1	26.3	40.9	57.5	83.6	128.9	210.4	317.8	454.2
-47.5°	0.0	4.9	13.1	24.3	38.3	53.6	71.2	114.4	178.2	260.4	389.7
-50°	0.0	4.7	12.0	22.6	35.5	49.5	65.2	99.3	144.8	222.7	322.9
-52.5°	0.0	4.4	10.9	20.9	32.7	45.3	60.1	83.7	122.1	183.9	256.6
-55°	0.0	4.2	9.7	19.1	29.8	41.5	54.9	68.7	103.7	143.8	212.0
-57.5°	0.0	3.9	8.5	17.3	26.7	37.8	49.5	62.4	84.8	118.1	166.3
-60°	0.0	3.6	7.3	15.5	23.7	33.9	44.1	56.0	67.9	96.3	126.8
-62.5°	0.0	3.4	6.7	13.6	21.2	29.9	39.3	49.4	60.3	74.0	102.1
-65°	0.0	3.1	6.2	11.7	18.6	25.9	34.4	42.9	52.6	62.5	76.9
-67.5°	0.0	2.8	5.6	9.7	15.9	22.2	29.5	37.2	44.8	53.7	62.5
-70°	0.0	2.5	5.0	7.7	13.3	18.8	24.5	31.3	38.1	44.8	52.6
-72.5°	0.0	2.2	4.4	6.6	10.6	15.4	20.3	25.4	31.3	37.2	42.9
-75°	0.0	1.9	3.8	5.7	7.8	12.0	16.2	20.3	24.5	29.5	34.4
-77.5°	0.0	1.6	3.2	4.7	6.3	8.5	12.0	15.4	18.8	22.2	25.9
-80°	0.0	1.3	2.5	3.8	5.0	6.3	7.8	10.6	13.3	15.9	18.6
-82.5°	0.0	1.0	1.9	2.9	3.8	4.7	5.7	6.6	7.7	9.7	11.7
-85°	0.0	0.6	1.3	1.9	2.5	3.2	3.8	4.4	5.0	5.6	6.2
-87.5°	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	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





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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°	3.4	3.6	3.9	4.2	4.4	4.7	4.9	5.2	5.4	5.6	5.8
85°	6.7	7.3	8.5	9.7	10.9	12.0	13.1	14.1	15.1	16.1	17.0
82.5°	13.6	15.5	17.3	19.1	20.9	22.6	24.3	26.3	28.1	29.9	31.7
80°	21.2	23.7	26.7	29.8	32.7	35.5	38.3	40.9	43.4	46.0	48.8
77.5°	29.9	33.9	37.8	41.5	45.3	49.5	53.6	57.5	61.3	64.9	68.3
75°	39.3	44.1	49.5	54.9	60.1	65.2	71.2	83.6	95.5	106.9	117.7
72.5°	49.4	56.0	62.4	68.7	83.7	99.3	114.4	128.9	150.3	176.1	200.6
70°	60.3	67.9	84.8	103.7	122.1	144.8	178.2	210.4	241.2	276.5	321.4
67.5°	74.0	96.3	118.1	143.8	183.9	222.7	260.4	317.8	373.4	426.7	484.2
65°	102.1	126.8	166.3	212.0	256.6	322.9	389.7	454.2	542.0	630.4	714.6
62.5°	129.8	177.6	229.1	290.1	368.4	444.4	544.7	650.5	752.3	874.2	993.6
60°	177.6	234.8	308.4	395.9	489.9	613.3	732.9	872.6	1015.6	1153.5	1317.0
57.5°	229.1	308.4	405.1	517.4	654.7	795.4	962.0	1123.2	1310.5	1496.7	1683.5
55°	290.1	395.9	517.4	668.6	831.2	1016.0	1207.1	1424.1	1634.3	1875.4	2106.2
52.5°	368.4	489.9	654.7	831.2	1034.1	1252.5	1492.8	1744.7	2014.3	2287.7	2587.0
50°	444.4	613.3	795.4	1016.0	1252.5	1515.8	1800.3	2098.4	2423.7	2758.4	3102.8
47.5°	544.7	732.9	962.0	1207.1	1492.8	1800.3	2126.6	2492.2	2862.2	3260.3	3647.5
45°	650.5	872.6	1123.2	1424.1	1744.7	2098.4	2492.2	2897.0	3339.7	3762.5	4150.7
42.5°	752.3	1015.6	1310.5	1634.3	2014.3	2423.7	2862.2	3339.7	3800.5	4227.8	4543.7
40°	874.2	1153.5	1496.7	1875.4	2287.7	2758.4	3260.3	3762.5	4227.8	4566.7	4822.6
37.5°	993.6	1317.0	1683.5	2106.2	2587.0	3102.8	3647.5	4150.7	4543.7	4822.6	5410.5
35°	1107.1	1472.3	1886.3	2350.6	2872.6	3448.7	3997.7	4475.0	4775.7	5357.0	6256.1
32.5°	1230.2	1619.2	2078.2	2601.2	3174.8	3771.5	4329.6	4682.8	5197.4	6005.6	7540.2
30°	1355.5	1782.0	2269.4	2837.3	3462.6	4063.4	4545.6	4935.0	5667.7	7157.0	10524.6
27.5°	1472.3	1935.9	2471.9	3078.2	3728.7	4337.3	4718.2	5348.7	6527.2	8840.5	14285.8
25°	1580.2	2078.2	2659.4	3308.4	3963.8	4515.2	4932.7	5734.7	7479.0	12142.6	18211.1
22.5°	1688.4	2209.0	2831.2	3519.6	4179.8	4652.2	5263.2	6481.4	9209.5	15227.1	21965.9
20°	1795.0	2350.6	2998.0	3708.9	4375.8	4776.7	5564.0	7227.4	11814.1	18430.8	25670.7
17.5°	1889.9	2476.7	3154.2	3869.6	4491.3	4953.4	5890.4	7897.5	14158.1	21320.9	29141.6
15°	1972.8	2587.0	3290.8	4010.3	4581.2	5171.5	6434.2	9621.8	16390.2	23958.7	32233.6
12.5°	2043.4	2681.0	3407.3	4130.4	4658.0	5358.2	6900.2	11259.3	18418.7	26406.9	35320.7
10°	2101.6	2758.4	3503.3	4229.4	4721.3	5512.4	7285.5	12615.2	20101.0	28441.2	37891.4
7.5°	2147.0	2818.8	3578.3	4306.9	4771.0	5633.2	7587.7	13680.2	21424.1	30043.6	39920.3
5°	2179.5	2862.2	3632.2	4362.5	4806.6	5720.0	7805.1	14446.5	22377.2	31199.3	41385.7
2.5°	2199.1	2888.3	3664.6	4395.9	4828.0	5772.3	7936.0	14908.7	22952.3	31897.4	42271.7
0°	2205.6	2897.0	3675.4	4407.1	4835.2	5789.8	7979.8	15063.1	23144.6	32130.8	42568.2
-2.5°	2199.1	2888.3	3664.6	4395.9	4828.0	5772.3	7936.0	14908.7	22952.3	31897.4	42271.7
-5°	2179.5	2862.2	3632.2	4362.5	4806.6	5720.0	7805.1	14446.5	22377.2	31199.3	41385.7
-7.5°	2147.0	2818.8	3578.3	4306.9	4771.0	5633.2	7587.7	13680.2	21424.1	30043.6	39920.3
-10°	2101.6	2758.4	3503.3	4229.4	4721.3	5512.4	7285.5	12615.2	20101.0	28441.2	37891.4
-12.5°	2043.4	2681.0	3407.3	4130.4	4658.0	5358.2	6900.2	11259.3	18418.7	26406.9	35320.7
-15°	1972.8	2587.0	3290.8	4010.3	4581.2	5171.5	6434.2	9621.8	16390.2	23958.7	32233.6
-17.5°	1889.9	2476.7	3154.2	3869.6	4491.3	4953.4	5890.4	7897.5	14158.1	21320.9	29141.6
-20°	1795.0	2350.6	2998.0	3708.9	4375.8	4776.7	5564.0	7227.4	11814.1	18430.8	25670.7



REPORT NUMBER: P699945 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5S-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1688.4	2209.0	2831.2	3519.6	4179.8	4652.2	5263.2	6481.4	9209.5	15227.1	21965.9
-25°	1580.2	2078.2	2659.4	3308.4	3963.8	4515.2	4932.7	5734.7	7479.0	12142.6	18211.1
-27.5°	1472.3	1935.9	2471.9	3078.2	3728.7	4337.3	4718.2	5348.7	6527.2	8840.5	14285.8
-30°	1355.5	1782.0	2269.4	2837.3	3462.6	4063.4	4545.6	4935.0	5667.7	7157.0	10524.6
-32.5°	1230.2	1619.2	2078.2	2601.2	3174.8	3771.5	4329.6	4682.8	5197.4	6005.6	7540.2
-35°	1107.1	1472.3	1886.3	2350.6	2872.6	3448.7	3997.7	4475.0	4775.7	5357.0	6256.1
-37.5°	993.6	1317.0	1683.5	2106.2	2587.0	3102.8	3647.5	4150.7	4543.7	4822.6	5410.5
-40°	874.2	1153.5	1496.7	1875.4	2287.7	2758.4	3260.3	3762.5	4227.8	4566.7	4822.6
-42.5°	752.3	1015.6	1310.5	1634.3	2014.3	2423.7	2862.2	3339.7	3800.5	4227.8	4543.7
-45°	650.5	872.6	1123.2	1424.1	1744.7	2098.4	2492.2	2897.0	3339.7	3762.5	4150.7
-47.5°	544.7	732.9	962.0	1207.1	1492.8	1800.3	2126.6	2492.2	2862.2	3260.3	3647.5
-50°	444.4	613.3	795.4	1016.0	1252.5	1515.8	1800.3	2098.4	2423.7	2758.4	3102.8
-52.5°	368.4	489.9	654.7	831.2	1034.1	1252.5	1492.8	1744.7	2014.3	2287.7	2587.0
-55°	290.1	395.9	517.4	668.6	831.2	1016.0	1207.1	1424.1	1634.3	1875.4	2106.2
-57.5°	229.1	308.4	405.1	517.4	654.7	795.4	962.0	1123.2	1310.5	1496.7	1683.5
-60°	177.6	234.8	308.4	395.9	489.9	613.3	732.9	872.6	1015.6	1153.5	1317.0
-62.5°	129.8	177.6	229.1	290.1	368.4	444.4	544.7	650.5	752.3	874.2	993.6
-65°	102.1	126.8	166.3	212.0	256.6	322.9	389.7	454.2	542.0	630.4	714.6
-67.5°	74.0	96.3	118.1	143.8	183.9	222.7	260.4	317.8	373.4	426.7	484.2
-70°	60.3	67.9	84.8	103.7	122.1	144.8	178.2	210.4	241.2	276.5	321.4
-72.5°	49.4	56.0	62.4	68.7	83.7	99.3	114.4	128.9	150.3	176.1	200.6
-75°	39.3	44.1	49.5	54.9	60.1	65.2	71.2	83.6	95.5	106.9	117.7
-77.5°	29.9	33.9	37.8	41.5	45.3	49.5	53.6	57.5	61.3	64.9	68.3
-80°	21.2	23.7	26.7	29.8	32.7	35.5	38.3	40.9	43.4	46.0	48.8
-82.5°	13.6	15.5	17.3	19.1	20.9	22.6	24.3	26.3	28.1	29.9	31.7
-85°	6.7	7.3	8.5	9.7	10.9	12.0	13.1	14.1	15.1	16.1	17.0
-87.5°	3.4	3.6	3.9	4.2	4.4	4.7	4.9	5.2	5.4	5.6	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: P699945 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5S-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°	6.0	6.2	6.3	6.5	6.6	6.7	6.9	7.0	7.1	7.1	7.2
85°	17.8	18.6	19.4	20.1	20.7	21.3	21.8	22.3	22.7	23.0	23.3
82.5°	33.3	34.8	36.2	37.5	38.7	39.8	40.8	41.7	42.5	43.1	43.6
80°	51.3	53.7	56.0	58.1	60.0	61.8	63.4	64.8	66.0	67.0	67.9
77.5°	74.9	82.9	90.4	97.3	103.7	109.5	114.7	119.4	123.4	126.8	129.7
75°	127.9	140.2	157.6	173.8	188.7	202.2	214.5	225.3	234.8	242.8	249.4
72.5°	223.8	245.6	268.9	299.2	327.1	352.5	375.5	395.9	413.6	428.7	441.1
70°	363.9	403.9	441.4	482.6	530.4	574.0	613.3	648.2	678.6	704.6	725.8
67.5°	555.7	623.2	686.3	745.0	809.2	872.6	929.9	980.7	1025.1	1062.9	1094.0
65°	803.1	899.8	990.5	1074.9	1153.5	1242.3	1322.4	1393.7	1455.9	1508.9	1552.4
62.5°	1107.1	1230.2	1355.5	1472.3	1580.2	1688.4	1795.0	1889.9	1972.8	2043.4	2101.6
60°	1472.3	1619.2	1782.0	1935.9	2078.2	2209.0	2350.6	2476.7	2587.0	2681.0	2758.4
57.5°	1886.3	2078.2	2269.4	2471.9	2659.4	2831.2	2998.0	3154.2	3290.8	3407.3	3503.3
55°	2350.6	2601.2	2837.3	3078.2	3308.4	3519.6	3708.9	3869.6	4010.3	4130.4	4229.4
52.5°	2872.6	3174.8	3462.6	3728.7	3963.8	4179.8	4375.8	4491.3	4581.2	4658.0	4721.3
50°	3448.7	3771.5	4063.4	4337.3	4515.2	4652.2	4776.7	4953.4	5171.5	5358.2	5512.4
47.5°	3997.7	4329.6	4545.6	4718.2	4932.7	5263.2	5564.0	5890.4	6434.2	6900.2	7285.5
45°	4475.0	4682.8	4935.0	5348.7	5734.7	6481.4	7227.4	7897.5	9621.8	11259.3	12615.2
42.5°	4775.7	5197.4	5667.7	6527.2	7479.0	9209.5	11814.1	14158.1	16390.2	18418.7	20101.0
40°	5357.0	6005.6	7157.0	8840.5	12142.6	15227.1	18430.8	21320.9	23958.7	26406.9	28441.2
37.5°	6256.1	7540.2	10524.6	14285.8	18211.1	21965.9	25670.7	29141.6	32233.6	35320.7	37891.4
35°	7668.9	11376.1	15666.4	20241.2	24713.9	29193.1	33515.0	37867.9	41739.7	45234.3	48190.8
32.5°	11376.1	16167.1	21269.1	26472.5	31595.9	37085.1	42244.5	47188.9	51619.0	56033.5	60226.1
30°	15666.4	21269.1	27063.9	32924.8	39270.4	45389.3	51246.6	57509.9	63755.2	69732.1	76184.0
27.5°	20241.2	26472.5	32924.8	40006.3	46996.9	53783.2	61965.7	70130.7	79673.9	88044.8	94884.0
25°	24713.9	31595.9	39270.4	46996.9	54875.9	64236.9	75108.0	86548.0	96626.2	105475.0	112896.8
22.5°	29193.1	37085.1	45389.3	53783.2	64236.9	76790.9	89999.5	101947.7	112760.8	122282.6	130900.0
20°	33515.0	42244.5	51246.6	61965.7	75108.0	89999.5	103752.5	116489.0	128330.3	140108.2	150757.1
17.5°	37867.9	47188.9	57509.9	70130.7	86548.0	101947.7	116489.0	130581.5	144882.1	160124.0	174151.6
15°	41739.7	51619.0	63755.2	79673.9	96626.2	112760.8	128330.3	144882.1	163336.8	181732.6	199237.7
12.5°	45234.3	56033.5	69732.1	88044.8	105475.0	122282.6	140108.2	160124.0	181732.6	203489.3	220389.5
10°	48190.8	60226.1	76184.0	94884.0	112896.8	130900.0	150757.1	174151.6	199237.7	220389.5	237136.2
7.5°	50529.4	63551.5	81318.8	100349.1	118829.4	138324.3	161037.1	186976.5	212546.4	233666.7	245799.9
5°	52221.6	65963.1	85052.9	104337.2	123177.9	143797.8	168674.6	196677.6	222058.4	241077.9	252420.7
2.5°	53246.0	67425.2	87321.2	106765.7	125834.4	147155.7	173387.3	202713.0	228047.3	244678.6	256134.9
0°	53589.0	67915.2	88082.0	107581.3	126728.1	148287.9	174981.4	204763.6	230096.1	245703.4	257351.4
-2.5°	53246.0	67425.2	87321.2	106765.7	125834.4	147155.7	173387.3	202713.0	228047.3	244678.6	256134.9
-5°	52221.6	65963.1	85052.9	104337.2	123177.9	143797.8	168674.6	196677.6	222058.4	241077.9	252420.7
-7.5°	50529.4	63551.5	81318.8	100349.1	118829.4	138324.3	161037.1	186976.5	212546.4	233666.7	245799.9
-10°	48190.8	60226.1	76184.0	94884.0	112896.8	130900.0	150757.1	174151.6	199237.7	220389.5	237136.2
-12.5°	45234.3	56033.5	69732.1	88044.8	105475.0	122282.6	140108.2	160124.0	181732.6	203489.3	220389.5
-15°	41739.7	51619.0	63755.2	79673.9	96626.2	112760.8	128330.3	144882.1	163336.8	181732.6	199237.7
-17.5°	37867.9	47188.9	57509.9	70130.7	86548.0	101947.7	116489.0	130581.5	144882.1	160124.0	174151.6
-20°	33515.0	42244.5	51246.6	61965.7	75108.0	89999.5	103752.5	116489.0	128330.3	140108.2	150757.1



REPORT NUMBER: P699945 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5S-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	29193.1	37085.1	45389.3	53783.2	64236.9	76790.9	89999.5	101947.7	112760.8	122282.6	130900.0
-25°	24713.9	31595.9	39270.4	46996.9	54875.9	64236.9	75108.0	86548.0	96626.2	105475.0	112896.8
-27.5°	20241.2	26472.5	32924.8	40006.3	46996.9	53783.2	61965.7	70130.7	79673.9	88044.8	94884.0
-30°	15666.4	21269.1	27063.9	32924.8	39270.4	45389.3	51246.6	57509.9	63755.2	69732.1	76184.0
-32.5°	11376.1	16167.1	21269.1	26472.5	31595.9	37085.1	42244.5	47188.9	51619.0	56033.5	60226.1
-35°	7668.9	11376.1	15666.4	20241.2	24713.9	29193.1	33515.0	37867.9	41739.7	45234.3	48190.8
-37.5°	6256.1	7540.2	10524.6	14285.8	18211.1	21965.9	25670.7	29141.6	32233.6	35320.7	37891.4
-40°	5357.0	6005.6	7157.0	8840.5	12142.6	15227.1	18430.8	21320.9	23958.7	26406.9	28441.2
-42.5°	4775.7	5197.4	5667.7	6527.2	7479.0	9209.5	11814.1	14158.1	16390.2	18418.7	20101.0
-45°	4475.0	4682.8	4935.0	5348.7	5734.7	6481.4	7227.4	7897.5	9621.8	11259.3	12615.2
-47.5°	3997.7	4329.6	4545.6	4718.2	4932.7	5263.2	5564.0	5890.4	6434.2	6900.2	7285.5
-50°	3448.7	3771.5	4063.4	4337.3	4515.2	4652.2	4776.7	4953.4	5171.5	5358.2	5512.4
-52.5°	2872.6	3174.8	3462.6	3728.7	3963.8	4179.8	4375.8	4491.3	4581.2	4658.0	4721.3
-55°	2350.6	2601.2	2837.3	3078.2	3308.4	3519.6	3708.9	3869.6	4010.3	4130.4	4229.4
-57.5°	1886.3	2078.2	2269.4	2471.9	2659.4	2831.2	2998.0	3154.2	3290.8	3407.3	3503.3
-60°	1472.3	1619.2	1782.0	1935.9	2078.2	2209.0	2350.6	2476.7	2587.0	2681.0	2758.4
-62.5°	1107.1	1230.2	1355.5	1472.3	1580.2	1688.4	1795.0	1889.9	1972.8	2043.4	2101.6
-65°	803.1	899.8	990.5	1074.9	1153.5	1242.3	1322.4	1393.7	1455.9	1508.9	1552.4
-67.5°	555.7	623.2	686.3	745.0	809.2	872.6	929.9	980.7	1025.1	1062.9	1094.0
-70°	363.9	403.9	441.4	482.6	530.4	574.0	613.3	648.2	678.6	704.6	725.8
-72.5°	223.8	245.6	268.9	299.2	327.1	352.5	375.5	395.9	413.6	428.7	441.1
-75°	127.9	140.2	157.6	173.8	188.7	202.2	214.5	225.3	234.8	242.8	249.4
-77.5°	74.9	82.9	90.4	97.3	103.7	109.5	114.7	119.4	123.4	126.8	129.7
-80°	51.3	53.7	56.0	58.1	60.0	61.8	63.4	64.8	66.0	67.0	67.9
-82.5°	33.3	34.8	36.2	37.5	38.7	39.8	40.8	41.7	42.5	43.1	43.6
-85°	17.8	18.6	19.4	20.1	20.7	21.3	21.8	22.3	22.7	23.0	23.3
-87.5°	6.0	6.2	6.3	6.5	6.6	6.7	6.9	7.0	7.1	7.1	7.2
-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: P699945 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5S-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°	7.2	7.3	7.3	7.3	7.3	7.3	7.2	7.2	7.1	7.1	7.0
85°	23.5	23.7	23.8	23.8	23.8	23.7	23.5	23.3	23.0	22.7	22.3
82.5°	44.1	44.4	44.5	44.6	44.5	44.4	44.1	43.6	43.1	42.5	41.7
80°	68.5	69.0	69.3	69.4	69.3	69.0	68.5	67.9	67.0	66.0	64.8
77.5°	131.9	133.4	134.4	134.7	134.4	133.4	131.9	129.7	126.8	123.4	119.4
75°	254.6	258.2	260.5	261.2	260.5	258.2	254.6	249.4	242.8	234.8	225.3
72.5°	450.8	457.7	461.9	463.3	461.9	457.7	450.8	441.1	428.7	413.6	395.9
70°	742.5	754.4	761.5	763.9	761.5	754.4	742.5	725.8	704.6	678.6	648.2
67.5°	1118.2	1135.6	1146.0	1149.5	1146.0	1135.6	1118.2	1094.0	1062.9	1025.1	980.7
65°	1586.5	1610.9	1625.5	1630.4	1625.5	1610.9	1586.5	1552.4	1508.9	1455.9	1393.7
62.5°	2147.0	2179.5	2199.1	2205.6	2199.1	2179.5	2147.0	2101.6	2043.4	1972.8	1889.9
60°	2818.8	2862.2	2888.3	2897.0	2888.3	2862.2	2818.8	2758.4	2681.0	2587.0	2476.7
57.5°	3578.3	3632.2	3664.6	3675.4	3664.6	3632.2	3578.3	3503.3	3407.3	3290.8	3154.2
55°	4306.9	4362.5	4395.9	4407.1	4395.9	4362.5	4306.9	4229.4	4130.4	4010.3	3869.6
52.5°	4771.0	4806.6	4828.0	4835.2	4828.0	4806.6	4771.0	4721.3	4658.0	4581.2	4491.3
50°	5633.2	5720.0	5772.3	5789.8	5772.3	5720.0	5633.2	5512.4	5358.2	5171.5	4953.4
47.5°	7587.7	7805.1	7936.0	7979.8	7936.0	7805.1	7587.7	7285.5	6900.2	6434.2	5890.4
45°	13680.2	14446.5	14908.7	15063.1	14908.7	14446.5	13680.2	12615.2	11259.3	9621.8	7897.5
42.5°	21424.1	22377.2	22952.3	23144.6	22952.3	22377.2	21424.1	20101.0	18418.7	16390.2	14158.1
40°	30043.6	31199.3	31897.4	32130.8	31897.4	31199.3	30043.6	28441.2	26406.9	23958.7	21320.9
37.5°	39920.3	41385.7	42271.7	42568.2	42271.7	41385.7	39920.3	37891.4	35320.7	32233.6	29141.6
35°	50529.4	52221.6	53246.0	53589.0	53246.0	52221.6	50529.4	48190.8	45234.3	41739.7	37867.9
32.5°	63551.5	65963.1	67425.2	67915.2	67425.2	65963.1	63551.5	60226.1	56033.5	51619.0	47188.9
30°	81318.8	85052.9	87321.2	88082.0	87321.2	85052.9	81318.8	76184.0	69732.1	63755.2	57509.9
27.5°	100349.1	104337.2	106765.7	107581.3	106765.7	104337.2	100349.1	94884.0	88044.8	79673.9	70130.7
25°	118829.4	123177.9	125834.4	126728.1	125834.4	123177.9	118829.4	112896.8	105475.0	96626.2	86548.0
22.5°	138324.3	143797.8	147155.7	148287.9	147155.7	143797.8	138324.3	130900.0	122282.6	112760.8	101947.7
20°	161037.1	168674.6	173387.3	174981.4	173387.3	168674.6	161037.1	150757.1	140108.2	128330.3	116489.0
17.5°	186976.5	196677.6	202713.0	204763.6	202713.0	196677.6	186976.5	174151.6	160124.0	144882.1	130581.5
15°	212546.4	222058.4	228047.3	230096.1	228047.3	222058.4	212546.4	199237.7	181732.6	163336.8	144882.1
12.5°	233666.7	241077.9	244678.6	245703.4	244678.6	241077.9	233666.7	220389.5	203489.3	181732.6	160124.0
10°	245799.9	252420.7	256134.9	257351.4	256134.9	252420.7	245799.9	237136.2	220389.5	199237.7	174151.6
7.5°	254990.1	259954.9	263141.2	264237.2	263141.2	259954.9	254990.1	245799.9	233666.7	212546.4	186976.5
5°	259954.9	265414.6	268796.5	270042.0	268796.5	265414.6	259954.9	252420.7	241077.9	222058.4	196677.6
2.5°	263141.2	268796.5	271341.0	271760.5	271341.0	268796.5	263141.2	256134.9	244678.6	228047.3	202713.0
0°	264237.2	270042.0	271760.5	272084.9	271760.5	270042.0	264237.2	257351.4	245703.4	230096.1	204763.6
-2.5°	263141.2	268796.5	271341.0	271760.5	271341.0	268796.5	263141.2	256134.9	244678.6	228047.3	202713.0
-5°	259954.9	265414.6	268796.5	270042.0	268796.5	265414.6	259954.9	252420.7	241077.9	222058.4	196677.6
-7.5°	254990.1	259954.9	263141.2	264237.2	263141.2	259954.9	254990.1	245799.9	233666.7	212546.4	186976.5
-10°	245799.9	252420.7	256134.9	257351.4	256134.9	252420.7	245799.9	237136.2	220389.5	199237.7	174151.6
-12.5°	233666.7	241077.9	244678.6	245703.4	244678.6	241077.9	233666.7	220389.5	203489.3	181732.6	160124.0
-15°	212546.4	222058.4	228047.3	230096.1	228047.3	222058.4	212546.4	199237.7	181732.6	163336.8	144882.1
-17.5°	186976.5	196677.6	202713.0	204763.6	202713.0	196677.6	186976.5	174151.6	160124.0	144882.1	130581.5
-20°	161037.1	168674.6	173387.3	174981.4	173387.3	168674.6	161037.1	150757.1	140108.2	128330.3	116489.0



REPORT NUMBER: P699945 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5S-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	138324.3	143797.8	147155.7	148287.9	147155.7	143797.8	138324.3	130900.0	122282.6	112760.8	101947.7
-25°	118829.4	123177.9	125834.4	126728.1	125834.4	123177.9	118829.4	112896.8	105475.0	96626.2	86548.0
-27.5°	100349.1	104337.2	106765.7	107581.3	106765.7	104337.2	100349.1	94884.0	88044.8	79673.9	70130.7
-30°	81318.8	85052.9	87321.2	88082.0	87321.2	85052.9	81318.8	76184.0	69732.1	63755.2	57509.9
-32.5°	63551.5	65963.1	67425.2	67915.2	67425.2	65963.1	63551.5	60226.1	56033.5	51619.0	47188.9
-35°	50529.4	52221.6	53246.0	53589.0	53246.0	52221.6	50529.4	48190.8	45234.3	41739.7	37867.9
-37.5°	39920.3	41385.7	42271.7	42568.2	42271.7	41385.7	39920.3	37891.4	35320.7	32233.6	29141.6
-40°	30043.6	31199.3	31897.4	32130.8	31897.4	31199.3	30043.6	28441.2	26406.9	23958.7	21320.9
-42.5°	21424.1	22377.2	22952.3	23144.6	22952.3	22377.2	21424.1	20101.0	18418.7	16390.2	14158.1
-45°	13680.2	14446.5	14908.7	15063.1	14908.7	14446.5	13680.2	12615.2	11259.3	9621.8	7897.5
-47.5°	7587.7	7805.1	7936.0	7979.8	7936.0	7805.1	7587.7	7285.5	6900.2	6434.2	5890.4
-50°	5633.2	5720.0	5772.3	5789.8	5772.3	5720.0	5633.2	5512.4	5358.2	5171.5	4953.4
-52.5°	4771.0	4806.6	4828.0	4835.2	4828.0	4806.6	4771.0	4721.3	4658.0	4581.2	4491.3
-55°	4306.9	4362.5	4395.9	4407.1	4395.9	4362.5	4306.9	4229.4	4130.4	4010.3	3869.6
-57.5°	3578.3	3632.2	3664.6	3675.4	3664.6	3632.2	3578.3	3503.3	3407.3	3290.8	3154.2
-60°	2818.8	2862.2	2888.3	2897.0	2888.3	2862.2	2818.8	2758.4	2681.0	2587.0	2476.7
-62.5°	2147.0	2179.5	2199.1	2205.6	2199.1	2179.5	2147.0	2101.6	2043.4	1972.8	1889.9
-65°	1586.5	1610.9	1625.5	1630.4	1625.5	1610.9	1586.5	1552.4	1508.9	1455.9	1393.7
-67.5°	1118.2	1135.6	1146.0	1149.5	1146.0	1135.6	1118.2	1094.0	1062.9	1025.1	980.7
-70°	742.5	754.4	761.5	763.9	761.5	754.4	742.5	725.8	704.6	678.6	648.2
-72.5°	450.8	457.7	461.9	463.3	461.9	457.7	450.8	441.1	428.7	413.6	395.9
-75°	254.6	258.2	260.5	261.2	260.5	258.2	254.6	249.4	242.8	234.8	225.3
-77.5°	131.9	133.4	134.4	134.7	134.4	133.4	131.9	129.7	126.8	123.4	119.4
-80°	68.5	69.0	69.3	69.4	69.3	69.0	68.5	67.9	67.0	66.0	64.8
-82.5°	44.1	44.4	44.5	44.6	44.5	44.4	44.1	43.6	43.1	42.5	41.7
-85°	23.5	23.7	23.8	23.8	23.8	23.7	23.5	23.3	23.0	22.7	22.3
-87.5°	7.2	7.3	7.3	7.3	7.3	7.3	7.2	7.2	7.1	7.1	7.0
-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: P699945 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5S-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°	6.9	6.7	6.6	6.5	6.3	6.2	6.0	5.8	5.6	5.4	5.2
85°	21.8	21.3	20.7	20.1	19.4	18.6	17.8	17.0	16.1	15.1	14.1
82.5°	40.8	39.8	38.7	37.5	36.2	34.8	33.3	31.7	29.9	28.1	26.3
80°	63.4	61.8	60.0	58.1	56.0	53.7	51.3	48.8	46.0	43.4	40.9
77.5°	114.7	109.5	103.7	97.3	90.4	82.9	74.9	68.3	64.9	61.3	57.5
75°	214.5	202.2	188.7	173.8	157.6	140.2	127.9	117.7	106.9	95.5	83.6
72.5°	375.5	352.5	327.1	299.2	268.9	245.6	223.8	200.6	176.1	150.3	128.9
70°	613.3	574.0	530.4	482.6	441.4	403.9	363.9	321.4	276.5	241.2	210.4
67.5°	929.9	872.6	809.2	745.0	686.3	623.2	555.7	484.2	426.7	373.4	317.8
65°	1322.4	1242.3	1153.5	1074.9	990.5	899.8	803.1	714.6	630.4	542.0	454.2
62.5°	1795.0	1688.4	1580.2	1472.3	1355.5	1230.2	1107.1	993.6	874.2	752.3	650.5
60°	2350.6	2209.0	2078.2	1935.9	1782.0	1619.2	1472.3	1317.0	1153.5	1015.6	872.6
57.5°	2998.0	2831.2	2659.4	2471.9	2269.4	2078.2	1886.3	1683.5	1496.7	1310.5	1123.2
55°	3708.9	3519.6	3308.4	3078.2	2837.3	2601.2	2350.6	2106.2	1875.4	1634.3	1424.1
52.5°	4375.8	4179.8	3963.8	3728.7	3462.6	3174.8	2872.6	2587.0	2287.7	2014.3	1744.7
50°	4776.7	4652.2	4515.2	4337.3	4063.4	3771.5	3448.7	3102.8	2758.4	2423.7	2098.4
47.5°	5564.0	5263.2	4932.7	4718.2	4545.6	4329.6	3997.7	3647.5	3260.3	2862.2	2492.2
45°	7227.4	6481.4	5734.7	5348.7	4935.0	4682.8	4475.0	4150.7	3762.5	3339.7	2897.0
42.5°	11814.1	9209.5	7479.0	6527.2	5667.7	5197.4	4775.7	4543.7	4227.8	3800.5	3339.7
40°	18430.8	15227.1	12142.6	8840.5	7157.0	6005.6	5357.0	4822.6	4566.7	4227.8	3762.5
37.5°	25670.7	21965.9	18211.1	14285.8	10524.6	7540.2	6256.1	5410.5	4822.6	4543.7	4150.7
35°	33515.0	29193.1	24713.9	20241.2	15666.4	11376.1	7668.9	6256.1	5357.0	4775.7	4475.0
32.5°	42244.5	37085.1	31595.9	26472.5	21269.1	16167.1	11376.1	7540.2	6005.6	5197.4	4682.8
30°	51246.6	45389.3	39270.4	32924.8	27063.9	21269.1	15666.4	10524.6	7157.0	5667.7	4935.0
27.5°	61965.7	53783.2	46996.9	40006.3	32924.8	26472.5	20241.2	14285.8	8840.5	6527.2	5348.7
25°	75108.0	64236.9	54875.9	46996.9	39270.4	31595.9	24713.9	18211.1	12142.6	7479.0	5734.7
22.5°	89999.5	76790.9	64236.9	53783.2	45389.3	37085.1	29193.1	21965.9	15227.1	9209.5	6481.4
20°	103752.5	89999.5	75108.0	61965.7	51246.6	42244.5	33515.0	25670.7	18430.8	11814.1	7227.4
17.5°	116489.0	101947.7	86548.0	70130.7	57509.9	47188.9	37867.9	29141.6	21320.9	14158.1	7897.5
15°	128330.3	112760.8	96626.2	79673.9	63755.2	51619.0	41739.7	32233.6	23958.7	16390.2	9621.8
12.5°	140108.2	122282.6	105475.0	88044.8	69732.1	56033.5	45234.3	35320.7	26406.9	18418.7	11259.3
10°	150757.1	130900.0	112896.8	94884.0	76184.0	60226.1	48190.8	37891.4	28441.2	20101.0	12615.2
7.5°	161037.1	138324.3	118829.4	100349.1	81318.8	63551.5	50529.4	39920.3	30043.6	21424.1	13680.2
5°	168674.6	143797.8	123177.9	104337.2	85052.9	65963.1	52221.6	41385.7	31199.3	22377.2	14446.5
2.5°	173387.3	147155.7	125834.4	106765.7	87321.2	67425.2	53246.0	42271.7	31897.4	22952.3	14908.7
0°	174981.4	148287.9	126728.1	107581.3	88082.0	67915.2	53589.0	42568.2	32130.8	23144.6	15063.1
-2.5°	173387.3	147155.7	125834.4	106765.7	87321.2	67425.2	53246.0	42271.7	31897.4	22952.3	14908.7
-5°	168674.6	143797.8	123177.9	104337.2	85052.9	65963.1	52221.6	41385.7	31199.3	22377.2	14446.5
-7.5°	161037.1	138324.3	118829.4	100349.1	81318.8	63551.5	50529.4	39920.3	30043.6	21424.1	13680.2
-10°	150757.1	130900.0	112896.8	94884.0	76184.0	60226.1	48190.8	37891.4	28441.2	20101.0	12615.2
-12.5°	140108.2	122282.6	105475.0	88044.8	69732.1	56033.5	45234.3	35320.7	26406.9	18418.7	11259.3
-15°	128330.3	112760.8	96626.2	79673.9	63755.2	51619.0	41739.7	32233.6	23958.7	16390.2	9621.8
-17.5°	116489.0	101947.7	86548.0	70130.7	57509.9	47188.9	37867.9	29141.6	21320.9	14158.1	7897.5
-20°	103752.5	89999.5	75108.0	61965.7	51246.6	42244.5	33515.0	25670.7	18430.8	11814.1	7227.4



REPORT NUMBER: P699945 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5S-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	89999.5	76790.9	64236.9	53783.2	45389.3	37085.1	29193.1	21965.9	15227.1	9209.5	6481.4
-25°	75108.0	64236.9	54875.9	46996.9	39270.4	31595.9	24713.9	18211.1	12142.6	7479.0	5734.7
-27.5°	61965.7	53783.2	46996.9	40006.3	32924.8	26472.5	20241.2	14285.8	8840.5	6527.2	5348.7
-30°	51246.6	45389.3	39270.4	32924.8	27063.9	21269.1	15666.4	10524.6	7157.0	5667.7	4935.0
-32.5°	42244.5	37085.1	31595.9	26472.5	21269.1	16167.1	11376.1	7540.2	6005.6	5197.4	4682.8
-35°	33515.0	29193.1	24713.9	20241.2	15666.4	11376.1	7668.9	6256.1	5357.0	4775.7	4475.0
-37.5°	25670.7	21965.9	18211.1	14285.8	10524.6	7540.2	6256.1	5410.5	4822.6	4543.7	4150.7
-40°	18430.8	15227.1	12142.6	8840.5	7157.0	6005.6	5357.0	4822.6	4566.7	4227.8	3762.5
-42.5°	11814.1	9209.5	7479.0	6527.2	5667.7	5197.4	4775.7	4543.7	4227.8	3800.5	3339.7
-45°	7227.4	6481.4	5734.7	5348.7	4935.0	4682.8	4475.0	4150.7	3762.5	3339.7	2897.0
-47.5°	5564.0	5263.2	4932.7	4718.2	4545.6	4329.6	3997.7	3647.5	3260.3	2862.2	2492.2
-50°	4776.7	4652.2	4515.2	4337.3	4063.4	3771.5	3448.7	3102.8	2758.4	2423.7	2098.4
-52.5°	4375.8	4179.8	3963.8	3728.7	3462.6	3174.8	2872.6	2587.0	2287.7	2014.3	1744.7
-55°	3708.9	3519.6	3308.4	3078.2	2837.3	2601.2	2350.6	2106.2	1875.4	1634.3	1424.1
-57.5°	2998.0	2831.2	2659.4	2471.9	2269.4	2078.2	1886.3	1683.5	1496.7	1310.5	1123.2
-60°	2350.6	2209.0	2078.2	1935.9	1782.0	1619.2	1472.3	1317.0	1153.5	1015.6	872.6
-62.5°	1795.0	1688.4	1580.2	1472.3	1355.5	1230.2	1107.1	993.6	874.2	752.3	650.5
-65°	1322.4	1242.3	1153.5	1074.9	990.5	899.8	803.1	714.6	630.4	542.0	454.2
-67.5°	929.9	872.6	809.2	745.0	686.3	623.2	555.7	484.2	426.7	373.4	317.8
-70°	613.3	574.0	530.4	482.6	441.4	403.9	363.9	321.4	276.5	241.2	210.4
-72.5°	375.5	352.5	327.1	299.2	268.9	245.6	223.8	200.6	176.1	150.3	128.9
-75°	214.5	202.2	188.7	173.8	157.6	140.2	127.9	117.7	106.9	95.5	83.6
-77.5°	114.7	109.5	103.7	97.3	90.4	82.9	74.9	68.3	64.9	61.3	57.5
-80°	63.4	61.8	60.0	58.1	56.0	53.7	51.3	48.8	46.0	43.4	40.9
-82.5°	40.8	39.8	38.7	37.5	36.2	34.8	33.3	31.7	29.9	28.1	26.3
-85°	21.8	21.3	20.7	20.1	19.4	18.6	17.8	17.0	16.1	15.1	14.1
-87.5°	6.9	6.7	6.6	6.5	6.3	6.2	6.0	5.8	5.6	5.4	5.2
-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: P699945 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5S-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°	4.9	4.7	4.4	4.2	3.9	3.6	3.4	3.1	2.8	2.5	2.2
85°	13.1	12.0	10.9	9.7	8.5	7.3	6.7	6.2	5.6	5.0	4.4
82.5°	24.3	22.6	20.9	19.1	17.3	15.5	13.6	11.7	9.7	7.7	6.6
80°	38.3	35.5	32.7	29.8	26.7	23.7	21.2	18.6	15.9	13.3	10.6
77.5°	53.6	49.5	45.3	41.5	37.8	33.9	29.9	25.9	22.2	18.8	15.4
75°	71.2	65.2	60.1	54.9	49.5	44.1	39.3	34.4	29.5	24.5	20.3
72.5°	114.4	99.3	83.7	68.7	62.4	56.0	49.4	42.9	37.2	31.3	25.4
70°	178.2	144.8	122.1	103.7	84.8	67.9	60.3	52.6	44.8	38.1	31.3
67.5°	260.4	222.7	183.9	143.8	118.1	96.3	74.0	62.5	53.7	44.8	37.2
65°	389.7	322.9	256.6	212.0	166.3	126.8	102.1	76.9	62.5	52.6	42.9
62.5°	544.7	444.4	368.4	290.1	229.1	177.6	129.8	102.1	74.0	60.3	49.4
60°	732.9	613.3	489.9	395.9	308.4	234.8	177.6	126.8	96.3	67.9	56.0
57.5°	962.0	795.4	654.7	517.4	405.1	308.4	229.1	166.3	118.1	84.8	62.4
55°	1207.1	1016.0	831.2	668.6	517.4	395.9	290.1	212.0	143.8	103.7	68.7
52.5°	1492.8	1252.5	1034.1	831.2	654.7	489.9	368.4	256.6	183.9	122.1	83.7
50°	1800.3	1515.8	1252.5	1016.0	795.4	613.3	444.4	322.9	222.7	144.8	99.3
47.5°	2126.6	1800.3	1492.8	1207.1	962.0	732.9	544.7	389.7	260.4	178.2	114.4
45°	2492.2	2098.4	1744.7	1424.1	1123.2	872.6	650.5	454.2	317.8	210.4	128.9
42.5°	2862.2	2423.7	2014.3	1634.3	1310.5	1015.6	752.3	542.0	373.4	241.2	150.3
40°	3260.3	2758.4	2287.7	1875.4	1496.7	1153.5	874.2	630.4	426.7	276.5	176.1
37.5°	3647.5	3102.8	2587.0	2106.2	1683.5	1317.0	993.6	714.6	484.2	321.4	200.6
35°	3997.7	3448.7	2872.6	2350.6	1886.3	1472.3	1107.1	803.1	555.7	363.9	223.8
32.5°	4329.6	3771.5	3174.8	2601.2	2078.2	1619.2	1230.2	899.8	623.2	403.9	245.6
30°	4545.6	4063.4	3462.6	2837.3	2269.4	1782.0	1355.5	990.5	686.3	441.4	268.9
27.5°	4718.2	4337.3	3728.7	3078.2	2471.9	1935.9	1472.3	1074.9	745.0	482.6	299.2
25°	4932.7	4515.2	3963.8	3308.4	2659.4	2078.2	1580.2	1153.5	809.2	530.4	327.1
22.5°	5263.2	4652.2	4179.8	3519.6	2831.2	2209.0	1688.4	1242.3	872.6	574.0	352.5
20°	5564.0	4776.7	4375.8	3708.9	2998.0	2350.6	1795.0	1322.4	929.9	613.3	375.5
17.5°	5890.4	4953.4	4491.3	3869.6	3154.2	2476.7	1889.9	1393.7	980.7	648.2	395.9
15°	6434.2	5171.5	4581.2	4010.3	3290.8	2587.0	1972.8	1455.9	1025.1	678.6	413.6
12.5°	6900.2	5358.2	4658.0	4130.4	3407.3	2681.0	2043.4	1508.9	1062.9	704.6	428.7
10°	7285.5	5512.4	4721.3	4229.4	3503.3	2758.4	2101.6	1552.4	1094.0	725.8	441.1
7.5°	7587.7	5633.2	4771.0	4306.9	3578.3	2818.8	2147.0	1586.5	1118.2	742.5	450.8
5°	7805.1	5720.0	4806.6	4362.5	3632.2	2862.2	2179.5	1610.9	1135.6	754.4	457.7
2.5°	7936.0	5772.3	4828.0	4395.9	3664.6	2888.3	2199.1	1625.5	1146.0	761.5	461.9
0°	7979.8	5789.8	4835.2	4407.1	3675.4	2897.0	2205.6	1630.4	1149.5	763.9	463.3
-2.5°	7936.0	5772.3	4828.0	4395.9	3664.6	2888.3	2199.1	1625.5	1146.0	761.5	461.9
-5°	7805.1	5720.0	4806.6	4362.5	3632.2	2862.2	2179.5	1610.9	1135.6	754.4	457.7
-7.5°	7587.7	5633.2	4771.0	4306.9	3578.3	2818.8	2147.0	1586.5	1118.2	742.5	450.8
-10°	7285.5	5512.4	4721.3	4229.4	3503.3	2758.4	2101.6	1552.4	1094.0	725.8	441.1
-12.5°	6900.2	5358.2	4658.0	4130.4	3407.3	2681.0	2043.4	1508.9	1062.9	704.6	428.7
-15°	6434.2	5171.5	4581.2	4010.3	3290.8	2587.0	1972.8	1455.9	1025.1	678.6	413.6
-17.5°	5890.4	4953.4	4491.3	3869.6	3154.2	2476.7	1889.9	1393.7	980.7	648.2	395.9
-20°	5564.0	4776.7	4375.8	3708.9	2998.0	2350.6	1795.0	1322.4	929.9	613.3	375.5



REPORT NUMBER: P699945 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5S-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	5263.2	4652.2	4179.8	3519.6	2831.2	2209.0	1688.4	1242.3	872.6	574.0	352.5
-25°	4932.7	4515.2	3963.8	3308.4	2659.4	2078.2	1580.2	1153.5	809.2	530.4	327.1
-27.5°	4718.2	4337.3	3728.7	3078.2	2471.9	1935.9	1472.3	1074.9	745.0	482.6	299.2
-30°	4545.6	4063.4	3462.6	2837.3	2269.4	1782.0	1355.5	990.5	686.3	441.4	268.9
-32.5°	4329.6	3771.5	3174.8	2601.2	2078.2	1619.2	1230.2	899.8	623.2	403.9	245.6
-35°	3997.7	3448.7	2872.6	2350.6	1886.3	1472.3	1107.1	803.1	555.7	363.9	223.8
-37.5°	3647.5	3102.8	2587.0	2106.2	1683.5	1317.0	993.6	714.6	484.2	321.4	200.6
-40°	3260.3	2758.4	2287.7	1875.4	1496.7	1153.5	874.2	630.4	426.7	276.5	176.1
-42.5°	2862.2	2423.7	2014.3	1634.3	1310.5	1015.6	752.3	542.0	373.4	241.2	150.3
-45°	2492.2	2098.4	1744.7	1424.1	1123.2	872.6	650.5	454.2	317.8	210.4	128.9
-47.5°	2126.6	1800.3	1492.8	1207.1	962.0	732.9	544.7	389.7	260.4	178.2	114.4
-50°	1800.3	1515.8	1252.5	1016.0	795.4	613.3	444.4	322.9	222.7	144.8	99.3
-52.5°	1492.8	1252.5	1034.1	831.2	654.7	489.9	368.4	256.6	183.9	122.1	83.7
-55°	1207.1	1016.0	831.2	668.6	517.4	395.9	290.1	212.0	143.8	103.7	68.7
-57.5°	962.0	795.4	654.7	517.4	405.1	308.4	229.1	166.3	118.1	84.8	62.4
-60°	732.9	613.3	489.9	395.9	308.4	234.8	177.6	126.8	96.3	67.9	56.0
-62.5°	544.7	444.4	368.4	290.1	229.1	177.6	129.8	102.1	74.0	60.3	49.4
-65°	389.7	322.9	256.6	212.0	166.3	126.8	102.1	76.9	62.5	52.6	42.9
-67.5°	260.4	222.7	183.9	143.8	118.1	96.3	74.0	62.5	53.7	44.8	37.2
-70°	178.2	144.8	122.1	103.7	84.8	67.9	60.3	52.6	44.8	38.1	31.3
-72.5°	114.4	99.3	83.7	68.7	62.4	56.0	49.4	42.9	37.2	31.3	25.4
-75°	71.2	65.2	60.1	54.9	49.5	44.1	39.3	34.4	29.5	24.5	20.3
-77.5°	53.6	49.5	45.3	41.5	37.8	33.9	29.9	25.9	22.2	18.8	15.4
-80°	38.3	35.5	32.7	29.8	26.7	23.7	21.2	18.6	15.9	13.3	10.6
-82.5°	24.3	22.6	20.9	19.1	17.3	15.5	13.6	11.7	9.7	7.7	6.6
-85°	13.1	12.0	10.9	9.7	8.5	7.3	6.7	6.2	5.6	5.0	4.4
-87.5°	4.9	4.7	4.4	4.2	3.9	3.6	3.4	3.1	2.8	2.5	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: P699945 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5S-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°	1.9	1.6	1.3	1.0	0.6	0.3	0.0
85°	3.8	3.2	2.5	1.9	1.3	0.6	0.0
82.5°	5.7	4.7	3.8	2.9	1.9	1.0	0.0
80°	7.8	6.3	5.0	3.8	2.5	1.3	0.0
77.5°	12.0	8.5	6.3	4.7	3.2	1.6	0.0
75°	16.2	12.0	7.8	5.7	3.8	1.9	0.0
72.5°	20.3	15.4	10.6	6.6	4.4	2.2	0.0
70°	24.5	18.8	13.3	7.7	5.0	2.5	0.0
67.5°	29.5	22.2	15.9	9.7	5.6	2.8	0.0
65°	34.4	25.9	18.6	11.7	6.2	3.1	0.0
62.5°	39.3	29.9	21.2	13.6	6.7	3.4	0.0
60°	44.1	33.9	23.7	15.5	7.3	3.6	0.0
57.5°	49.5	37.8	26.7	17.3	8.5	3.9	0.0
55°	54.9	41.5	29.8	19.1	9.7	4.2	0.0
52.5°	60.1	45.3	32.7	20.9	10.9	4.4	0.0
50°	65.2	49.5	35.5	22.6	12.0	4.7	0.0
47.5°	71.2	53.6	38.3	24.3	13.1	4.9	0.0
45°	83.6	57.5	40.9	26.3	14.1	5.2	0.0
42.5°	95.5	61.3	43.4	28.1	15.1	5.4	0.0
40°	106.9	64.9	46.0	29.9	16.1	5.6	0.0
37.5°	117.7	68.3	48.8	31.7	17.0	5.8	0.0
35°	127.9	74.9	51.3	33.3	17.8	6.0	0.0
32.5°	140.2	82.9	53.7	34.8	18.6	6.2	0.0
30°	157.6	90.4	56.0	36.2	19.4	6.3	0.0
27.5°	173.8	97.3	58.1	37.5	20.1	6.5	0.0
25°	188.7	103.7	60.0	38.7	20.7	6.6	0.0
22.5°	202.2	109.5	61.8	39.8	21.3	6.7	0.0
20°	214.5	114.7	63.4	40.8	21.8	6.9	0.0
17.5°	225.3	119.4	64.8	41.7	22.3	7.0	0.0
15°	234.8	123.4	66.0	42.5	22.7	7.1	0.0
12.5°	242.8	126.8	67.0	43.1	23.0	7.1	0.0
10°	249.4	129.7	67.9	43.6	23.3	7.2	0.0
7.5°	254.6	131.9	68.5	44.1	23.5	7.2	0.0
5°	258.2	133.4	69.0	44.4	23.7	7.3	0.0
2.5°	260.5	134.4	69.3	44.5	23.8	7.3	0.0
0°	261.2	134.7	69.4	44.6	23.8	7.3	0.0
-2.5°	260.5	134.4	69.3	44.5	23.8	7.3	0.0
-5°	258.2	133.4	69.0	44.4	23.7	7.3	0.0
-7.5°	254.6	131.9	68.5	44.1	23.5	7.2	0.0
-10°	249.4	129.7	67.9	43.6	23.3	7.2	0.0
-12.5°	242.8	126.8	67.0	43.1	23.0	7.1	0.0
-15°	234.8	123.4	66.0	42.5	22.7	7.1	0.0
-17.5°	225.3	119.4	64.8	41.7	22.3	7.0	0.0
-20°	214.5	114.7	63.4	40.8	21.8	6.9	0.0



REPORT NUMBER: P699945 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5S-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	202.2	109.5	61.8	39.8	21.3	6.7	0.0
-25°	188.7	103.7	60.0	38.7	20.7	6.6	0.0
-27.5°	173.8	97.3	58.1	37.5	20.1	6.5	0.0
-30°	157.6	90.4	56.0	36.2	19.4	6.3	0.0
-32.5°	140.2	82.9	53.7	34.8	18.6	6.2	0.0
-35°	127.9	74.9	51.3	33.3	17.8	6.0	0.0
-37.5°	117.7	68.3	48.8	31.7	17.0	5.8	0.0
-40°	106.9	64.9	46.0	29.9	16.1	5.6	0.0
-42.5°	95.5	61.3	43.4	28.1	15.1	5.4	0.0
-45°	83.6	57.5	40.9	26.3	14.1	5.2	0.0
-47.5°	71.2	53.6	38.3	24.3	13.1	4.9	0.0
-50°	65.2	49.5	35.5	22.6	12.0	4.7	0.0
-52.5°	60.1	45.3	32.7	20.9	10.9	4.4	0.0
-55°	54.9	41.5	29.8	19.1	9.7	4.2	0.0
-57.5°	49.5	37.8	26.7	17.3	8.5	3.9	0.0
-60°	44.1	33.9	23.7	15.5	7.3	3.6	0.0
-62.5°	39.3	29.9	21.2	13.6	6.7	3.4	0.0
-65°	34.4	25.9	18.6	11.7	6.2	3.1	0.0
-67.5°	29.5	22.2	15.9	9.7	5.6	2.8	0.0
-70°	24.5	18.8	13.3	7.7	5.0	2.5	0.0
-72.5°	20.3	15.4	10.6	6.6	4.4	2.2	0.0
-75°	16.2	12.0	7.8	5.7	3.8	1.9	0.0
-77.5°	12.0	8.5	6.3	4.7	3.2	1.6	0.0
-80°	7.8	6.3	5.0	3.8	2.5	1.3	0.0
-82.5°	5.7	4.7	3.8	2.9	1.9	1.0	0.0
-85°	3.8	3.2	2.5	1.9	1.3	0.6	0.0
-87.5°	1.9	1.6	1.3	1.0	0.6	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)