

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: P699907 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-57-70-1L-S**

Issue Date: 8/10/2023

**Test Information**

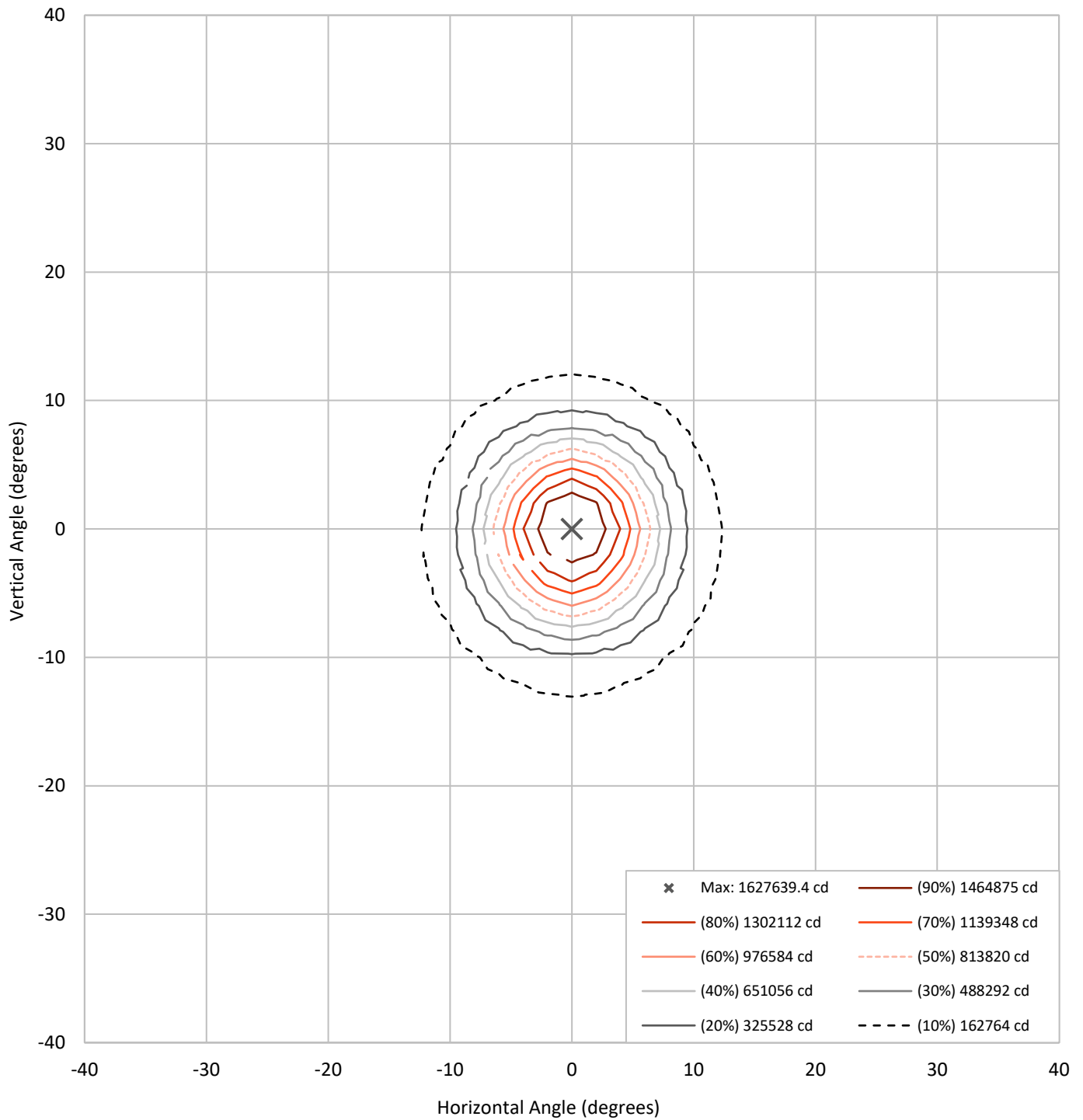
Test Method: LM-79-08  
Report Number: P699907 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-16-1200L-57-70-1L-S  
Description: EPHESUS LUMASPORT 16 LUMINAIRE  
(16) 5700K, 70 CRI LEDS AND 1L BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	169027.3 lumens	Max Intensity:	1627639.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	134.6 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	12.8°H x 13°V	Field Angle (10%):	24.4°H x 24.6°V
Beam Lumens:	41897.6 lumens	Field Lumens:	84165.3 lumens
Beam Efficiency:	24.8%	Field Efficiency:	49.8%
Input Watts (W):	1255.9		
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





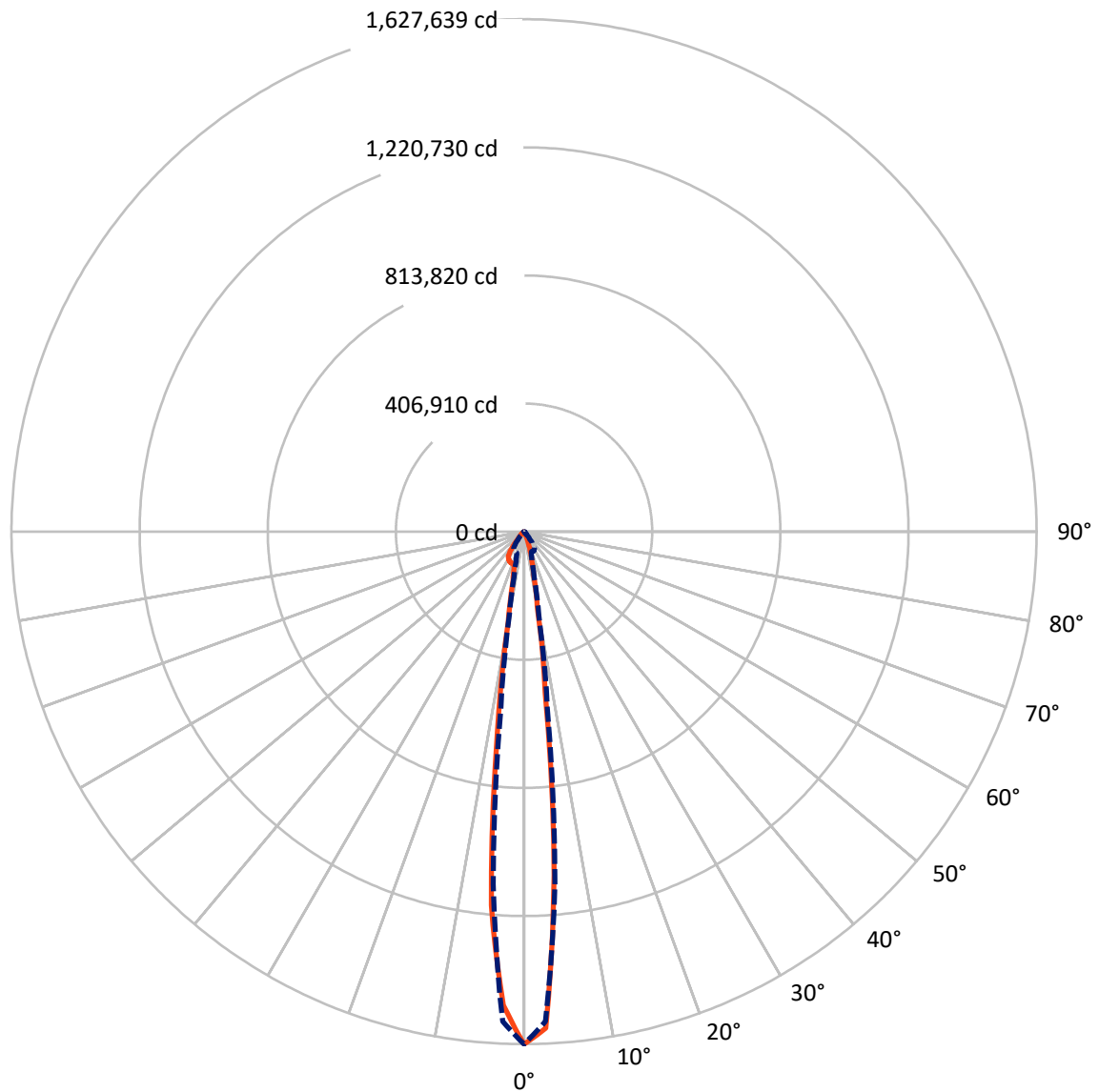
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### Lumen Table

90	0.4	1.7		2.8		3.6		3.9		3.6		2.8		1.7		0.4
80	0.4	1.7		2.8		3.6		3.9		3.6		2.8		1.7		0.4
70	0.8	0.6	0.9	1.3	1.9	2.6	3.2	3.5	3.5	3.2	2.6	1.9	1.3	0.9	0.6	0.8
60		0.7	1.2	2.4	4.2	6.5	10.4	16.3	16.3	10.4	6.5	4.2	2.4	1.2	0.7	
50	0.9	0.8	2.4	6.2	10.9	20.0	30.3	43.3	43.3	30.3	20.0	10.9	6.2	2.4	0.8	0.9
40		1.1	5.2	13.5	27.4	38.8	59.1	69.4	69.4	59.1	38.8	27.4	13.5	5.2	1.1	
30	1.1	1.6	7.8	29.9	106.0	290.6	486.6	573.1	573.1	486.6	290.6	106.0	29.9	7.8	1.6	1.1
20		2.3	11.7	68.6	459.2	1130.8	1653.0	2816.9	2816.9	1653.0	1130.8	459.2	68.6	11.7	2.3	
10	1.1	2.6	15.5	132.0	950.9	1721.8	2992.5	19161.7	19161.7	2992.5	1721.8	950.9	132.0	15.5	2.6	1.1
0		2.7	16.3	163.3	1210.7	2039.6	3264.9	20323.7	20323.7	3264.9	2039.6	1210.7	163.3	16.3	2.7	
-10	1.1	2.5	13.0	128.5	1045.6	2330.5	2771.0	3904.0	3904.0	2771.0	2330.5	1045.6	128.5	13.0	2.5	1.1
-20		1.9	8.8	67.3	529.9	1951.7	2844.3	3135.6	3135.6	2844.3	1951.7	529.9	67.3	8.8	1.9	
-30	1.0	1.3	6.3	25.1	172.3	705.2	1562.1	2111.9	2111.9	1562.1	705.2	172.3	25.1	6.3	1.3	1.0
-40		0.9	3.3	8.8	35.5	143.9	331.9	476.7	476.7	331.9	143.9	35.5	8.8	3.3	0.9	
-50	0.8	0.7	1.6	3.7	7.2	16.8	38.6	57.2	57.2	38.6	16.8	7.2	3.7	1.6	0.7	0.8
-60		0.6	0.9	1.6	2.6	3.9	5.0	5.6	5.6	5.0	3.9	2.6	1.6	0.9	0.6	
-70	0.4	0.6	0.9	1.6	2.6	3.9	5.0	5.6	5.6	5.0	3.9	2.6	1.6	0.9	0.6	0.4
-80		0.4	1.7		2.7		3.7		4.0		3.7		2.7		1.7	
-90	0.4	1.7		2.7		3.7		4.0		3.7		2.7		1.7		0.4

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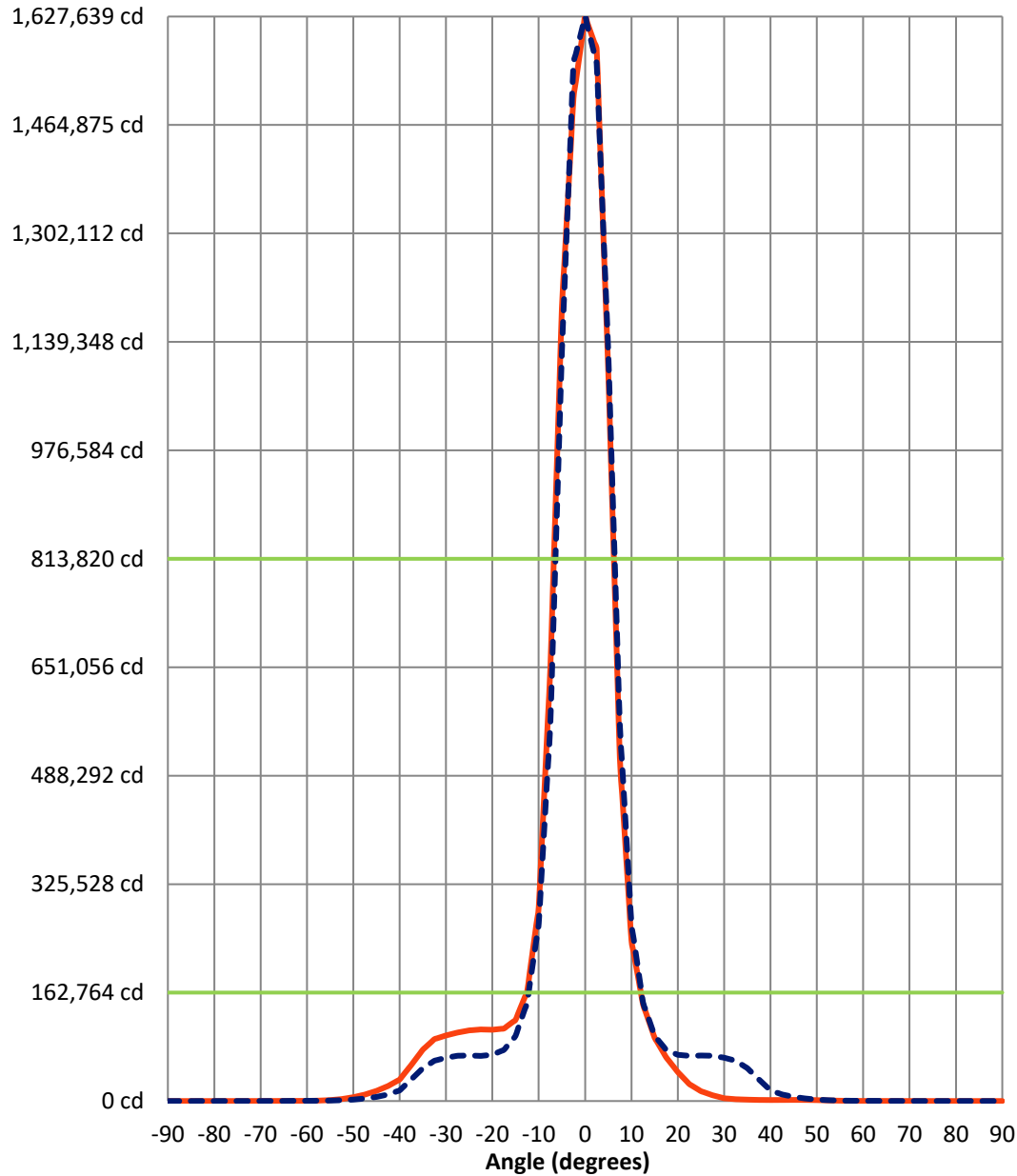
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 12.8°  
 V Angle: 13°  
 Lumens: 41897.6  
 Efficiency: 24.8%

**Field:**  
 H Angle: 24.4°  
 V Angle: 24.6°  
 Lumens: 84165.3  
 Efficiency: 49.8%

**Spill:**  
 Lumens: 84862  
 Efficiency: 50.2%

- 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	1.3	2.6	3.9	5.2	6.5	7.8	9.0	10.3	11.5	12.2
85°	0.0	2.6	5.2	7.8	10.4	13.0	15.5	18.0	20.5	22.9	24.4
82.5°	0.0	3.9	7.8	11.7	15.6	19.4	23.2	27.0	30.0	30.0	29.2
80°	0.0	5.2	10.4	15.6	20.7	25.8	30.0	30.0	30.0	30.0	29.7
77.5°	0.0	6.5	13.0	19.4	25.8	30.0	30.0	30.0	30.0	30.0	30.9
75°	0.0	7.8	15.5	23.2	30.0	30.0	30.0	30.0	30.3	32.7	34.7
72.5°	0.0	9.0	18.0	27.0	30.0	30.0	30.0	30.8	33.6	36.4	38.6
70°	0.0	10.3	20.5	30.0	30.0	30.0	30.3	33.6	36.9	40.0	39.7
67.5°	0.0	11.5	22.9	30.0	30.0	30.0	32.7	36.4	40.0	40.3	39.9
65°	0.0	12.7	25.3	30.0	30.0	31.0	35.1	39.2	40.6	40.6	41.1
62.5°	0.0	13.8	27.7	30.0	30.0	32.9	37.5	40.6	41.3	41.7	45.0
60°	0.0	15.0	30.0	30.0	30.0	34.9	39.7	41.5	42.1	44.8	48.8
57.5°	0.0	16.1	30.0	30.0	31.4	36.7	40.9	42.4	44.2	47.8	50.1
55°	0.0	17.2	30.0	30.0	32.9	38.5	41.9	43.5	46.5	50.1	50.4
52.5°	0.0	18.3	30.0	30.0	34.3	40.2	42.9	45.1	48.6	50.7	50.9
50°	0.0	19.3	30.0	30.0	35.6	41.1	44.0	46.7	50.2	51.5	53.9
47.5°	0.0	20.3	30.0	30.2	36.9	42.1	45.2	48.2	51.1	52.4	56.9
45°	0.0	21.2	30.0	31.2	38.2	43.1	46.3	49.5	52.1	54.8	59.6
42.5°	0.0	22.1	30.0	32.1	39.4	44.2	47.3	50.6	53.3	56.9	63.2
40°	0.0	23.0	30.0	33.0	40.4	45.2	48.2	51.6	54.6	58.8	67.0
37.5°	0.0	23.8	30.0	33.8	41.2	46.3	48.9	52.7	56.1	61.0	70.8
35°	0.0	24.6	30.0	34.6	42.0	47.1	49.6	53.8	57.4	64.3	75.7
32.5°	0.0	25.3	30.0	35.3	42.8	47.6	50.3	55.0	58.6	67.7	82.1
30°	0.0	26.0	30.0	36.0	43.6	48.1	51.2	56.2	59.5	71.0	88.4
27.5°	0.0	26.6	30.0	36.6	44.3	48.5	52.1	57.0	61.0	74.2	94.4
25°	0.0	27.2	30.0	37.2	45.0	48.9	53.0	57.7	63.6	78.6	100.4
22.5°	0.0	27.7	30.0	37.7	45.7	49.2	53.9	58.3	66.1	83.3	107.9
20°	0.0	28.2	30.0	38.2	46.4	49.4	54.8	58.8	68.4	87.8	114.9
17.5°	0.0	28.6	30.0	38.6	47.0	49.6	55.7	59.2	70.6	91.9	121.4
15°	0.0	29.0	30.0	39.0	47.6	49.7	56.5	59.5	72.6	95.8	127.4
12.5°	0.0	29.3	30.0	39.3	48.2	49.9	57.3	59.7	74.4	99.2	132.9
10°	0.0	29.5	30.0	39.5	48.7	49.9	58.0	59.8	76.1	102.3	137.7
7.5°	0.0	29.7	30.0	39.7	49.1	50.0	58.6	59.9	77.5	104.9	141.8
5°	0.0	29.9	30.0	39.9	49.5	50.0	59.2	60.0	78.6	107.1	145.3
2.5°	0.0	30.0	30.0	40.0	49.8	50.0	59.6	60.0	79.4	108.8	148.0
0°	0.0	30.0	30.0	40.0	50.0	50.0	60.0	60.0	80.0	110.0	150.0
-2.5°	0.0	30.0	30.0	40.0	49.8	50.0	59.9	60.3	80.2	110.2	150.6
-5°	0.0	29.9	30.0	39.9	49.5	50.0	59.8	60.7	80.2	109.8	150.4
-7.5°	0.0	29.7	30.0	39.7	49.1	50.0	59.5	61.0	79.8	108.9	149.3
-10°	0.0	29.5	30.0	39.5	48.7	49.9	59.1	61.2	79.1	107.5	147.3
-12.5°	0.0	29.3	30.0	39.3	48.2	49.9	58.5	61.4	78.1	105.5	144.4
-15°	0.0	29.0	30.0	39.0	47.6	49.7	57.9	61.6	76.7	103.0	140.5
-17.5°	0.0	28.6	30.0	38.6	47.0	49.6	57.2	61.6	75.1	100.0	135.7
-20°	0.0	28.2	30.0	38.2	46.4	49.4	56.3	61.5	73.1	96.5	129.9



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 CATALOG NUMBER: EPH-LS-16-1200L-57-70-1L-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	27.7	30.0	37.7	45.7	49.2	55.3	61.4	70.9	92.5	123.1
-25°	0.0	27.2	30.0	37.2	45.0	48.9	54.3	61.1	68.3	87.9	115.3
-27.5°	0.0	26.6	30.0	36.6	44.3	48.5	53.1	60.7	65.5	83.6	109.6
-30°	0.0	26.0	30.0	36.0	43.6	48.1	51.8	60.2	64.1	80.0	103.5
-32.5°	0.0	25.3	30.0	35.3	42.8	47.6	50.4	58.8	63.5	76.2	96.8
-35°	0.0	24.6	30.0	34.6	42.0	47.1	49.6	57.0	62.7	72.1	89.7
-37.5°	0.0	23.8	30.0	33.8	41.2	46.3	48.9	55.2	61.7	67.7	83.8
-40°	0.0	23.0	30.0	33.0	40.4	45.2	48.2	53.3	60.4	65.4	78.5
-42.5°	0.0	22.1	30.0	32.1	39.4	44.2	47.3	51.2	58.4	63.9	73.0
-45°	0.0	21.2	30.0	31.2	38.2	43.1	46.3	49.5	56.0	62.0	67.7
-47.5°	0.0	20.3	30.0	30.2	36.9	42.1	45.2	48.2	53.4	59.9	65.4
-50°	0.0	19.3	30.0	30.0	35.6	41.1	44.0	46.7	50.8	57.0	62.7
-52.5°	0.0	18.3	30.0	30.0	34.3	40.2	42.9	45.1	48.6	53.9	59.6
-55°	0.0	17.2	30.0	30.0	32.9	38.5	41.9	43.5	46.5	50.7	56.1
-57.5°	0.0	16.1	30.0	30.0	31.4	36.7	40.9	42.4	44.2	47.8	52.5
-60°	0.0	15.0	30.0	30.0	30.0	34.9	39.7	41.5	42.1	44.8	48.8
-62.5°	0.0	13.8	27.7	30.0	30.0	32.9	37.5	40.6	41.3	41.7	45.0
-65°	0.0	12.7	25.3	30.0	30.0	31.0	35.1	39.2	40.6	40.6	41.1
-67.5°	0.0	11.5	22.9	30.0	30.0	30.0	32.7	36.4	40.0	40.3	39.9
-70°	0.0	10.3	20.5	30.0	30.0	30.0	30.3	33.6	36.9	40.0	39.7
-72.5°	0.0	9.0	18.0	27.0	30.0	30.0	30.0	30.8	33.6	36.4	38.5
-75°	0.0	7.8	15.5	23.2	30.0	30.0	30.0	30.0	30.3	32.7	34.3
-77.5°	0.0	6.5	13.0	19.4	25.8	30.0	30.0	30.0	30.0	30.0	30.1
-80°	0.0	5.2	10.4	15.6	20.7	25.8	30.0	30.0	30.0	30.0	29.0
-82.5°	0.0	3.9	7.8	11.7	15.6	19.4	23.2	27.0	30.0	30.0	29.0
-85°	0.0	2.6	5.2	7.8	10.4	13.0	15.5	18.0	20.5	22.9	24.4
-87.5°	0.0	1.3	2.6	3.9	5.2	6.5	7.8	9.0	10.3	11.5	12.2
-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°	12.8	13.3	13.7	14.0	14.2	14.3	14.3	14.1	14.7	15.3	15.9
85°	25.7	26.7	25.9	25.3	24.8	24.5	24.3	24.2	24.2	24.2	23.9
82.5°	28.7	28.4	28.3	28.5	28.8	29.4	30.0	30.0	29.0	27.9	26.8
80°	29.7	30.0	30.8	31.3	31.5	31.4	30.9	30.2	29.1	28.5	28.5
77.5°	32.4	33.4	33.9	34.0	33.8	34.0	34.5	35.4	35.9	36.3	36.5
75°	36.1	36.9	36.8	37.0	37.7	38.8	40.0	40.1	39.6	39.2	39.2
72.5°	38.6	38.5	38.9	39.9	40.9	41.3	41.2	40.5	41.2	43.3	45.2
70°	39.4	39.8	41.5	42.7	43.3	43.6	44.7	46.3	48.4	50.8	53.0
67.5°	40.6	43.1	44.8	45.7	46.5	47.9	49.9	52.8	55.6	58.2	60.9
65°	44.4	46.8	47.5	48.3	49.8	53.1	56.4	59.6	62.6	66.1	70.1
62.5°	48.3	48.6	49.2	51.4	55.3	59.1	62.7	66.2	69.6	76.2	82.7
60°	49.5	49.6	52.3	56.7	60.9	65.0	69.0	75.6	83.1	90.1	94.0
57.5°	49.9	52.3	57.1	61.8	66.4	71.6	80.3	88.6	94.1	97.3	106.4
55°	51.4	56.7	61.8	66.8	73.5	83.1	92.1	98.6	103.4	128.1	148.4
52.5°	55.3	60.9	66.4	73.5	84.0	94.3	102.8	126.5	162.0	179.3	191.5
50°	59.1	65.0	71.6	83.1	94.9	105.9	146.1	196.5	217.5	227.7	233.6
47.5°	62.9	69.0	80.3	93.1	107.0	155.6	224.5	249.8	263.7	269.0	275.4
45°	66.9	75.8	88.6	105.2	148.5	239.2	276.0	293.6	298.4	315.8	362.1
42.5°	70.9	83.9	99.8	118.8	234.0	295.7	317.0	322.9	348.2	410.0	471.6
40°	78.0	92.2	111.9	203.0	308.8	333.8	343.9	365.3	445.0	533.1	608.8
37.5°	85.4	103.7	140.9	290.0	343.9	362.5	367.6	462.0	571.9	682.4	789.9
35°	92.7	115.1	214.3	341.9	378.4	383.0	456.4	577.5	727.2	874.0	1003.5
32.5°	101.7	126.3	282.1	361.7	397.1	424.3	552.4	732.5	915.3	1089.8	1265.9
30°	111.4	180.1	330.8	379.4	405.3	513.9	689.3	901.8	1122.4	1361.5	1563.8
27.5°	120.8	232.7	345.6	389.8	429.3	596.9	842.7	1100.5	1377.4	1661.4	1908.7
25°	129.9	280.0	358.4	399.8	501.2	715.2	1003.6	1305.5	1659.7	2013.9	2425.8
22.5°	153.6	321.3	369.4	411.3	571.1	848.2	1199.5	1591.5	1975.1	2408.3	3056.4
20°	188.7	330.4	378.6	432.7	638.4	981.4	1411.9	1944.5	2484.7	3055.3	4338.7
17.5°	219.2	337.9	387.9	487.2	739.7	1136.1	1651.7	2346.5	3107.0	4089.4	6233.3
15°	245.2	343.8	397.4	537.7	844.1	1316.3	1980.1	2865.3	3935.4	5487.1	8597.6
12.5°	266.6	348.2	406.9	583.6	942.2	1495.7	2324.7	3440.3	4933.0	7432.3	13347.0
10°	283.6	351.1	416.0	624.1	1032.1	1669.6	2673.9	4041.2	5985.1	9379.8	17991.7
7.5°	296.3	352.7	424.3	658.7	1112.0	1832.7	3015.2	4645.4	7052.4	11274.0	22388.1
5°	304.8	353.0	431.3	686.6	1179.6	1979.4	3334.7	5227.7	8090.7	13053.3	26375.7
2.5°	309.3	352.0	436.7	707.3	1233.0	2103.8	3617.9	5761.8	9053.0	14651.4	29782.1
0°	<b>310.0</b>	<b>350.0</b>	<b>440.0</b>	<b>720.0</b>	<b>1270.0</b>	<b>2200.0</b>	<b>3850.0</b>	<b>6220.0</b>	<b>9890.0</b>	<b>16000.0</b>	<b>32430.0</b>
-2.5°	316.2	354.0	439.5	714.2	1262.4	2201.3	3885.2	6331.8	10218.5	16726.6	33529.6
-5°	318.3	357.4	436.9	700.1	1236.2	2166.8	3848.6	6327.9	10336.2	17063.4	33586.2
-7.5°	315.8	360.4	432.5	678.0	1191.0	2094.8	3734.7	6197.5	10209.9	16944.0	32506.1
-10°	308.2	363.4	426.6	648.1	1126.9	1984.1	3539.0	5930.8	9810.1	16310.5	30214.8
-12.5°	295.2	366.6	419.7	610.8	1043.7	1833.8	3257.6	5519.9	9112.0	15115.4	26660.2
-15°	276.4	370.4	412.0	566.4	941.8	1643.1	2887.9	4959.0	8096.2	13322.6	21812.4
-17.5°	251.5	375.0	403.9	515.4	821.2	1411.7	2427.8	4280.3	7036.8	11717.7	19371.9
-20°	220.2	380.6	395.7	458.0	695.8	1205.2	2101.8	3715.4	6150.4	10035.2	16507.2



REPORT NUMBER: P699907 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-1L-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	182.2	387.5	392.9	436.7	625.3	1037.2	1773.4	3048.3	5101.9	8173.8	13563.1
-25°	156.3	343.7	399.2	425.6	548.9	850.2	1401.2	2357.9	4260.4	7013.7	11240.9
-27.5°	146.9	290.5	407.8	415.6	467.2	677.1	1138.3	1983.9	3427.3	5650.3	8763.3
-30°	136.4	229.1	418.6	411.8	440.0	583.7	920.5	1529.7	2573.6	4462.6	7059.1
-32.5°	124.8	164.2	369.8	424.5	430.5	485.3	698.8	1197.5	2011.0	3221.6	5324.3
-35°	114.1	150.5	286.6	440.3	415.3	438.1	578.8	872.2	1444.5	2401.9	3802.6
-37.5°	105.7	135.5	194.1	397.8	418.1	413.6	450.7	657.1	1042.8	1635.7	2662.3
-40°	96.8	119.5	155.9	283.8	418.0	395.9	416.7	493.0	711.7	1144.4	1743.3
-42.5°	87.8	109.1	137.1	173.0	331.4	392.1	378.7	417.9	515.8	733.7	1151.0
-45°	81.4	98.3	118.7	150.3	218.3	345.2	369.4	363.3	411.8	502.5	714.5
-47.5°	74.7	88.2	106.6	128.1	158.8	233.7	332.6	346.8	346.1	393.3	454.7
-50°	68.8	80.3	94.0	112.2	134.2	162.6	226.9	301.7	320.9	323.4	357.2
-52.5°	65.3	71.9	84.0	98.2	114.9	135.7	161.7	206.0	261.4	288.1	296.7
-55°	61.2	66.2	74.0	85.9	99.5	115.0	132.4	156.0	179.4	220.5	253.1
-57.5°	56.9	61.2	66.4	74.2	85.7	98.1	112.2	125.8	145.7	166.1	188.1
-60°	52.6	56.1	60.2	65.4	72.2	83.0	94.3	106.6	118.9	130.4	147.4
-62.5°	48.3	51.3	54.4	57.9	62.9	68.5	77.4	87.7	98.4	108.6	117.9
-65°	44.4	46.8	49.2	51.7	54.2	58.5	63.6	69.2	77.8	86.7	95.1
-67.5°	40.6	43.1	44.8	46.1	48.2	50.2	52.0	56.3	61.1	66.4	72.1
-70°	39.4	39.8	41.5	42.7	43.3	43.8	45.3	46.8	48.4	51.5	56.0
-72.5°	38.6	38.5	38.9	39.9	40.9	41.3	41.2	40.5	41.2	43.3	45.2
-75°	35.6	36.8	36.8	37.0	37.7	38.8	40.0	40.1	39.6	39.2	39.2
-77.5°	31.0	31.8	32.5	33.3	33.8	34.0	34.5	35.4	35.9	36.3	36.5
-80°	27.9	26.8	27.1	27.5	27.8	28.0	28.3	28.4	28.6	28.5	28.5
-82.5°	27.9	26.8	25.7	24.5	23.4	22.3	21.5	21.3	21.9	22.3	22.6
-85°	25.7	26.7	25.6	24.5	23.4	22.3	21.2	20.0	19.4	19.0	18.6
-87.5°	12.8	13.3	13.7	14.0	14.2	14.3	14.3	14.1	13.9	13.6	13.2
-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: P699907 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-1L-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°	16.4	16.9	17.3	17.7	18.1	18.5	16.7	14.8	12.9	10.9	8.8
85°	23.6	23.1	22.5	21.7	20.9	20.0	18.8	17.6	16.5	15.4	14.3
82.5°	25.7	24.5	23.4	22.3	21.2	20.1	19.8	19.7	19.7	19.7	19.7
80°	28.5	28.3	28.1	27.8	27.5	27.1	27.6	28.1	28.6	29.0	29.4
77.5°	36.2	35.8	35.7	35.7	35.9	36.2	36.9	37.7	38.3	38.8	39.2
75°	39.6	40.4	41.8	43.1	44.3	45.3	46.3	47.2	47.9	48.5	49.1
72.5°	47.0	48.8	50.4	51.9	53.3	54.5	55.7	56.7	57.5	58.3	58.9
70°	55.1	57.1	58.9	61.1	64.1	67.2	70.0	72.3	74.3	76.1	77.5
67.5°	64.1	67.8	71.7	75.9	79.5	82.3	84.3	85.6	86.8	87.8	88.6
65°	75.0	79.9	84.0	87.4	90.2	93.7	97.2	100.2	102.7	104.9	106.8
62.5°	88.1	92.4	96.6	101.1	105.8	112.2	118.6	123.5	127.9	131.5	134.6
60°	98.5	103.5	116.9	128.2	136.8	142.9	146.6	152.2	157.9	163.1	167.9
57.5°	125.9	142.0	154.8	164.4	171.0	174.8	178.4	188.6	201.8	215.3	228.5
55°	167.4	182.6	194.1	203.7	212.3	219.6	229.1	259.9	300.8	343.6	386.7
52.5°	210.1	224.0	236.4	252.7	286.1	317.8	347.4	397.1	473.1	551.0	628.6
50°	249.7	273.4	314.3	354.2	406.3	463.4	519.9	583.0	698.4	818.7	940.6
47.5°	315.8	362.4	422.0	487.6	559.3	643.5	726.9	805.8	923.2	1055.4	1186.5
45°	401.9	471.3	548.4	642.8	739.1	827.3	906.4	977.4	1062.0	1178.1	1289.6
42.5°	518.5	592.5	695.1	801.3	901.0	976.4	1023.6	1063.5	1117.5	1222.4	1313.8
40°	677.2	721.8	843.0	945.8	1009.1	1063.5	1105.0	1143.2	1185.3	1286.2	1365.2
37.5°	870.5	919.7	961.1	1034.5	1088.5	1136.0	1220.7	1299.4	1350.6	1445.3	1531.6
35°	1111.0	1133.7	1059.7	1102.6	1192.1	1328.5	1488.2	1674.3	1715.2	1741.0	1866.7
32.5°	1375.4	1402.1	1316.8	1255.0	1428.2	1852.3	2138.3	2516.4	2516.2	2213.1	2430.9
30°	1702.0	1802.9	1971.2	1876.0	2217.8	2974.4	3686.2	4259.8	4279.0	3619.1	3849.6
27.5°	2200.7	2707.4	3295.3	4239.4	3975.5	4996.3	6698.2	7588.0	8166.7	7365.8	7842.2
25°	3056.4	4136.7	6838.6	8358.8	8643.1	9151.4	11783.1	13560.2	15382.8	15894.4	15427.0
22.5°	4624.1	8108.1	11709.4	13914.8	15519.3	16975.3	19238.8	23057.6	25302.9	26275.0	26164.4
20°	7242.1	13228.8	17762.2	21042.4	23771.4	26494.5	30094.7	33586.3	36117.9	37246.4	38308.6
17.5°	12214.9	19232.1	24666.3	28831.5	32696.9	37047.5	40692.2	43886.5	45869.7	48829.3	52092.0
15°	17810.5	25808.8	31996.0	37160.5	42065.0	46420.0	49663.9	51601.2	55754.5	60698.0	66616.9
12.5°	23605.7	32535.4	39335.0	45403.4	50946.1	54147.8	55756.4	58487.2	63945.4	71855.5	84902.8
10°	29440.2	38914.2	45848.5	51785.7	57118.4	60072.8	60650.1	63637.6	71330.8	86042.8	107157.5
7.5°	35141.5	45011.6	51589.9	57056.3	60870.5	62530.0	64162.1	68872.0	79929.1	100138.3	143142.1
5°	40501.3	50713.9	56628.1	61375.5	63843.9	64496.6	66347.5	72700.1	88142.8	119392.7	190305.6
2.5°	45290.6	55898.5	61060.8	64936.7	66241.6	66191.8	68072.1	75354.1	94445.9	138555.4	243155.3
0°	49270.0	60440.0	65010.0	67980.0	68320.0	67770.0	69450.0	76870.0	97860.0	147984.9	266299.9
-2.5°	51285.0	63313.5	68168.6	71040.8	71450.9	70937.9	72285.9	79180.4	98885.5	144808.4	251868.6
-5°	52081.0	65300.9	71006.2	73933.9	74601.2	74212.5	75064.0	80611.6	96779.2	131020.9	203635.8
-7.5°	51510.2	66299.7	73551.5	76738.7	77817.5	77634.8	77913.0	81333.5	92175.0	113558.6	158130.5
-10°	49454.7	66232.1	75835.6	79526.9	81137.9	81257.1	81328.8	82628.6	88425.4	102410.8	123698.6
-12.5°	45831.0	65048.3	77890.0	82340.2	84308.5	85194.8	85647.3	86587.7	89108.9	93898.7	106715.2
-15°	40699.9	61248.9	76083.7	83264.5	86574.5	88648.2	90022.9	90798.3	92180.3	94447.3	98482.0
-17.5°	34453.8	53984.1	71745.7	83593.9	88204.2	91164.7	93412.0	95286.3	95944.6	97127.2	98980.3
-20°	27153.2	45500.4	64759.1	79057.3	87945.1	92656.6	95848.1	97696.7	99051.8	100176.9	102086.0



REPORT NUMBER: P699907 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-1L-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	22158.1	36562.4	54383.5	72459.2	84450.2	91910.0	96191.9	98096.6	99959.3	101881.6	103953.5
-25°	17616.4	27199.5	43391.0	60311.9	76454.2	87423.6	93317.6	96719.1	98976.7	101358.6	103506.9
-27.5°	13882.1	21423.2	31830.8	47425.6	63058.3	76927.2	85650.0	92823.7	95872.5	98835.9	100581.5
-30°	10456.8	15898.3	23962.8	34237.2	47551.8	60015.0	72219.9	81460.7	88447.0	93878.3	95801.7
-32.5°	8132.2	11736.9	17082.3	24555.7	32249.8	43029.6	53542.1	63935.0	73462.8	80560.9	84994.9
-35°	5924.5	8755.0	12112.6	16898.4	22299.4	28786.9	35594.9	44483.0	52464.6	59901.6	66171.7
-37.5°	4083.4	6174.4	8773.5	11573.4	15479.5	19436.5	24233.4	28828.7	32675.7	39056.5	44396.3
-40°	2751.2	3987.0	5978.6	8101.3	10642.7	13164.5	16593.6	19709.1	22768.1	25735.6	28142.7
-42.5°	1740.2	2651.5	3720.1	5341.6	7119.0	9075.0	11234.1	13277.8	15514.3	17558.3	19263.0
-45°	1041.0	1632.7	2329.1	3323.9	4347.4	5835.6	7340.7	8766.7	10310.4	11640.1	12784.5
-47.5°	658.6	900.8	1380.8	1945.1	2609.9	3515.0	4421.1	5377.1	6433.8	7334.5	8103.6
-50°	430.7	557.4	783.5	1024.5	1458.2	1960.0	2457.9	3069.7	3684.9	4235.9	4715.8
-52.5°	315.1	381.2	462.9	578.7	790.0	1008.4	1230.7	1592.0	1920.0	2209.0	2456.2
-55°	276.5	292.3	306.9	363.5	441.6	525.7	631.1	797.4	940.9	1067.6	1176.3
-57.5°	217.9	244.6	265.2	277.4	288.5	298.5	340.2	403.9	462.3	514.5	560.0
-60°	163.6	178.8	201.1	221.2	238.5	253.0	260.7	268.9	276.5	283.2	289.0
-62.5°	126.7	138.4	151.4	163.6	174.8	187.3	199.9	210.3	219.1	226.5	232.3
-65°	103.1	110.6	117.6	124.2	130.4	139.6	147.9	154.6	160.2	164.5	167.6
-67.5°	79.2	86.0	92.3	98.1	103.5	108.5	112.9	116.9	120.3	123.3	125.7
-70°	60.2	64.1	67.8	71.9	76.7	81.0	85.0	88.5	91.5	94.1	96.2
-72.5°	47.0	48.8	50.8	53.8	56.5	59.0	61.3	63.3	65.1	66.6	67.8
-75°	39.6	40.4	41.8	43.1	44.3	45.3	46.3	47.2	47.9	48.5	49.1
-77.5°	36.2	35.8	35.7	35.7	35.9	36.2	36.9	37.7	38.3	38.8	39.2
-80°	28.5	28.3	28.1	27.8	27.5	27.1	27.3	27.7	28.2	28.6	29.0
-82.5°	22.6	22.4	22.0	21.5	20.9	20.1	19.0	17.8	16.7	15.6	14.5
-85°	18.4	18.3	18.2	18.2	18.3	18.5	17.7	16.9	16.0	15.1	14.2
-87.5°	12.8	12.2	11.6	10.8	10.1	9.2	8.4	7.4	6.4	5.4	4.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699907 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-1L-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°	6.6	4.4	2.2	0.0	2.2	4.4	6.6	8.8	10.9	12.9	14.8
85°	13.2	12.2	11.1	10.0	11.1	12.2	13.2	14.3	15.4	16.5	17.6
82.5°	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.7	19.7	19.7	19.7
80°	29.7	29.8	30.0	30.0	30.0	29.8	29.7	29.4	29.0	28.6	28.1
77.5°	39.6	39.8	40.0	40.0	40.0	39.8	39.6	39.2	38.8	38.3	37.7
75°	49.5	49.8	49.9	50.0	49.9	49.8	49.5	49.1	48.5	47.9	47.2
72.5°	59.4	59.7	59.9	60.0	59.9	59.7	59.4	58.9	58.3	57.5	56.7
70°	78.6	79.4	79.8	80.0	79.8	79.4	78.6	77.5	76.1	74.3	72.3
67.5°	89.2	89.6	89.9	90.0	89.9	89.6	89.2	88.6	87.8	86.8	85.6
65°	108.2	109.2	109.8	110.0	109.8	109.2	108.2	106.8	104.9	102.7	100.2
62.5°	136.9	138.6	139.7	140.0	139.7	138.6	136.9	134.6	131.5	127.9	123.5
60°	172.1	175.6	178.2	180.0	178.2	175.6	172.1	167.9	163.1	157.9	152.2
57.5°	241.0	252.4	262.2	270.0	262.2	252.4	241.0	228.5	215.3	201.8	188.6
55°	428.6	467.5	501.9	530.0	501.9	467.5	428.6	386.7	343.6	300.8	259.9
52.5°	703.7	773.8	836.8	890.0	836.8	773.8	703.7	628.6	551.0	473.1	397.1
50°	1060.6	1174.7	1279.2	1370.0	1279.2	1174.7	1060.6	940.6	818.7	698.4	583.0
47.5°	1314.7	1437.7	1553.6	1660.0	1553.6	1437.7	1314.7	1186.5	1055.4	923.2	805.8
45°	1397.0	1500.8	1601.6	1700.0	1601.6	1500.8	1397.0	1289.6	1178.1	1062.0	977.4
42.5°	1394.7	1468.6	1539.1	1610.0	1539.1	1468.6	1394.7	1313.8	1222.4	1117.5	1063.5
40°	1424.7	1469.8	1506.2	1540.0	1506.2	1469.8	1424.7	1365.2	1286.2	1185.3	1143.2
37.5°	1593.3	1634.1	1658.2	1670.0	1658.2	1634.1	1593.3	1531.6	1445.3	1350.6	1299.4
35°	1965.9	2038.0	2082.6	2100.0	2082.6	2038.0	1965.9	1866.7	1741.0	1715.2	1674.3
32.5°	2587.0	2684.1	2726.6	2720.0	2726.6	2684.1	2587.0	2430.9	2213.1	2516.2	2516.4
30°	4285.3	4452.5	4396.1	4170.0	4396.1	4452.5	4285.3	3849.6	3619.1	4279.0	4259.8
27.5°	9149.6	9648.6	9453.4	8710.0	9453.4	9648.6	9149.6	7842.2	7365.8	8166.7	7588.0
25°	16839.6	17130.8	16374.5	14790.0	16374.5	17130.8	16839.6	15427.0	15894.4	15382.8	13560.2
22.5°	27073.3	27785.2	27198.4	25380.0	27198.4	27785.2	27073.3	26164.4	26275.0	25302.9	23057.6
20°	40320.3	42918.7	44119.3	43520.0	44119.3	42918.7	40320.3	38308.6	37246.4	36117.9	33586.3
17.5°	56101.5	60871.9	64374.2	65560.0	64374.2	60871.9	56101.5	52092.0	48829.3	45869.7	43886.5
15°	74947.0	83781.8	91297.6	95140.0	91297.6	83781.8	74947.0	66616.9	60698.0	55754.5	51601.2
12.5°	99238.3	117062.5	135400.9	145010.0	135400.9	117062.5	99238.3	84902.8	71855.5	63945.4	58487.2
10°	141746.5	184728.1	227946.0	241249.9	227946.0	184728.1	141746.5	107157.5	86042.8	71330.8	63637.6
7.5°	217685.0	332328.9	464808.0	514599.8	464808.0	332328.9	217685.0	143142.1	100138.3	79929.1	68872.0
5°	341681.3	603567.9	935886.6	#####	935886.6	603567.9	341681.3	190305.6	119392.7	88142.8	72700.1
2.5°	485619.0	951091.9	#####	#####	#####	951091.9	485619.0	243155.3	138555.4	94445.9	75354.1
0°	564799.8	#####	#####	#####	#####	#####	564799.8	266299.9	147984.9	97860.0	76870.0
-2.5°	510630.4	990859.4	#####	#####	#####	990859.4	510630.4	251868.6	144808.4	98885.5	79180.4
-5°	374881.2	677964.3	#####	#####	#####	677964.3	374881.2	203635.8	131020.9	96779.2	80611.6
-7.5°	240183.9	394010.8	569906.1	648959.7	569906.1	394010.8	240183.9	158130.5	113558.6	92175.0	81333.5
-10°	160876.0	216443.8	275424.8	290979.9	275424.8	216443.8	160876.0	123698.6	102410.8	88425.4	82628.6
-12.5°	120785.7	140199.0	157141.7	164414.9	157141.7	140199.0	120785.7	106715.2	93898.7	89108.9	86587.7
-15°	106211.9	113678.6	118728.5	121790.0	118728.5	113678.6	106211.9	98482.0	94447.3	92180.3	90798.3
-17.5°	102641.4	104840.2	106857.8	108820.0	106857.8	104840.2	102641.4	98980.3	97127.2	95944.6	95286.3
-20°	103882.5	104593.9	105682.3	107000.0	105682.3	104593.9	103882.5	102086.0	100176.9	99051.8	97696.7



REPORT NUMBER: P699907 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-1L-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	104993.8	105657.0	106524.9	107430.0	106524.9	105657.0	104993.8	103953.5	101881.6	99959.3	98096.6
-25°	104259.6	104971.8	105593.0	106020.0	105593.0	104971.8	104259.6	103506.9	101358.6	98976.7	96719.1
-27.5°	101526.4	102244.4	102687.8	102810.0	102687.8	102244.4	101526.4	100581.5	98835.9	95872.5	92823.7
-30°	97114.1	97999.1	98450.4	98470.0	98450.4	97999.1	97114.1	95801.7	93878.3	88447.0	81460.7
-32.5°	88494.5	91004.2	92479.5	92890.0	92479.5	91004.2	88494.5	84994.9	80560.9	73462.8	63935.0
-35°	71059.0	74523.4	76541.7	77110.0	76541.7	74523.4	71059.0	66171.7	59901.6	52464.6	44483.0
-37.5°	48606.9	51643.3	53471.5	54070.0	53471.5	51643.3	48606.9	44396.3	39056.5	32675.7	28828.7
-40°	29995.2	31296.5	32056.2	32290.0	32056.2	31296.5	29995.2	28142.7	25735.6	22768.1	19709.1
-42.5°	20621.0	21627.2	22279.9	22580.0	22279.9	21627.2	20621.0	19263.0	17558.3	15514.3	13277.8
-45°	13730.6	14465.9	14979.1	15260.0	14979.1	14465.9	13730.6	12784.5	11640.1	10310.4	8766.7
-47.5°	8734.5	9220.9	9557.6	9740.0	9557.6	9220.9	8734.5	8103.6	7334.5	6433.8	5377.1
-50°	5117.8	5435.0	5661.1	5790.0	5661.1	5435.0	5117.8	4715.8	4235.9	3684.9	3069.7
-52.5°	2659.2	2815.6	2923.2	2980.0	2923.2	2815.6	2659.2	2456.2	2209.0	1920.0	1592.0
-55°	1265.9	1335.4	1383.8	1410.0	1383.8	1335.4	1265.9	1176.3	1067.6	940.9	797.4
-57.5°	597.9	627.6	648.5	660.0	648.5	627.6	597.9	560.0	514.5	462.3	403.9
-60°	293.7	297.1	299.3	300.0	299.3	297.1	293.7	289.0	283.2	276.5	268.9
-62.5°	236.6	239.3	240.5	240.0	240.5	239.3	236.6	232.3	226.5	219.1	210.3
-65°	169.7	170.7	170.8	170.0	170.8	170.7	169.7	167.6	164.5	160.2	154.6
-67.5°	127.6	128.9	129.7	130.0	129.7	128.9	127.6	125.7	123.3	120.3	116.9
-70°	97.9	99.0	99.8	100.0	99.8	99.0	97.9	96.2	94.1	91.5	88.5
-72.5°	68.8	69.5	69.9	70.0	69.9	69.5	68.8	67.8	66.6	65.1	63.3
-75°	49.5	49.8	49.9	50.0	49.9	49.8	49.5	49.1	48.5	47.9	47.2
-77.5°	39.6	39.8	40.0	40.0	40.0	39.8	39.6	39.2	38.8	38.3	37.7
-80°	29.4	29.7	29.9	30.0	29.9	29.7	29.4	29.0	28.6	28.2	27.7
-82.5°	13.4	12.2	11.1	10.0	11.1	12.2	13.4	14.5	15.6	16.7	17.8
-85°	13.2	12.2	11.1	10.0	11.1	12.2	13.2	14.2	15.1	16.0	16.9
-87.5°	3.3	2.2	1.1	0.0	1.1	2.2	3.3	4.4	5.4	6.4	7.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699907 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-1L-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°	16.7	18.5	18.1	17.7	17.3	16.9	16.4	15.9	15.3	14.7	14.1
85°	18.8	20.0	20.9	21.7	22.5	23.1	23.6	23.9	24.2	24.2	24.2
82.5°	19.8	20.1	21.2	22.3	23.4	24.5	25.7	26.8	27.9	29.0	30.0
80°	27.6	27.1	27.5	27.8	28.1	28.3	28.5	28.5	28.5	29.1	30.2
77.5°	36.9	36.2	35.9	35.7	35.7	35.8	36.2	36.5	36.3	35.9	35.4
75°	46.3	45.3	44.3	43.1	41.8	40.4	39.6	39.2	39.2	39.6	40.1
72.5°	55.7	54.5	53.3	51.9	50.4	48.8	47.0	45.2	43.3	41.2	40.5
70°	70.0	67.2	64.1	61.1	58.9	57.1	55.1	53.0	50.8	48.4	46.3
67.5°	84.3	82.3	79.5	75.9	71.7	67.8	64.1	60.9	58.2	55.6	52.8
65°	97.2	93.7	90.2	87.4	84.0	79.9	75.0	70.1	66.1	62.6	59.6
62.5°	118.6	112.2	105.8	101.1	96.6	92.4	88.1	82.7	76.2	69.6	66.2
60°	146.6	142.9	136.8	128.2	116.9	103.5	98.5	94.0	90.1	83.1	75.6
57.5°	178.4	174.8	171.0	164.4	154.8	142.0	125.9	106.4	97.3	94.1	88.6
55°	229.1	219.6	212.3	203.7	194.1	182.6	167.4	148.4	128.1	103.4	98.6
52.5°	347.4	317.8	286.1	252.7	236.4	224.0	210.1	191.5	179.3	162.0	126.5
50°	519.9	463.4	406.3	354.2	314.3	273.4	249.7	233.6	227.7	217.5	196.5
47.5°	726.9	643.5	559.3	487.6	422.0	362.4	315.8	275.4	269.0	263.7	249.8
45°	906.4	827.3	739.1	642.8	548.4	471.3	401.9	362.1	315.8	298.4	293.6
42.5°	1023.6	976.4	901.0	801.3	695.1	592.5	518.5	471.6	410.0	348.2	322.9
40°	1105.0	1063.5	1009.1	945.8	843.0	721.8	677.2	608.8	533.1	445.0	365.3
37.5°	1220.7	1136.0	1088.5	1034.5	961.1	919.7	870.5	789.9	682.4	571.9	462.0
35°	1488.2	1328.5	1192.1	1102.6	1059.7	1133.7	1111.0	1003.5	874.0	727.2	577.5
32.5°	2138.3	1852.3	1428.2	1255.0	1316.8	1402.1	1375.4	1265.9	1089.8	915.3	732.5
30°	3686.2	2974.4	2217.8	1876.0	1971.2	1802.9	1702.0	1563.8	1361.5	1122.4	901.8
27.5°	6698.2	4996.3	3975.5	4239.4	3295.3	2707.4	2200.7	1908.7	1661.4	1377.4	1100.5
25°	11783.1	9151.4	8643.1	8358.8	6838.6	4136.7	3056.4	2425.8	2013.9	1659.7	1305.5
22.5°	19238.8	16975.3	15519.3	13914.8	11709.4	8108.1	4624.1	3056.4	2408.3	1975.1	1591.5
20°	30094.7	26494.5	23771.4	21042.4	17762.2	13228.8	7242.1	4338.7	3055.3	2484.7	1944.5
17.5°	40692.2	37047.5	32696.9	28831.5	24666.3	19232.1	12214.9	6233.3	4089.4	3107.0	2346.5
15°	49663.9	46420.0	42065.0	37160.5	31996.0	25808.8	17810.5	8597.6	5487.1	3935.4	2865.3
12.5°	55756.4	54147.8	50946.1	45403.4	39335.0	32535.4	23605.7	13347.0	7432.3	4933.0	3440.3
10°	60650.1	60072.8	57118.4	51785.7	45848.5	38914.2	29440.2	17991.7	9379.8	5985.1	4041.2
7.5°	64162.1	62530.0	60870.5	57056.3	51589.9	45011.6	35141.5	22388.1	11274.0	7052.4	4645.4
5°	66347.5	64496.6	63843.9	61375.5	56628.1	50713.9	40501.3	26375.7	13053.3	8090.7	5227.7
2.5°	68072.1	66191.8	66241.6	64936.7	61060.8	55898.5	45290.6	29782.1	14651.4	9053.0	5761.8
0°	<b>69450.0</b>	<b>67770.0</b>	<b>68320.0</b>	<b>67980.0</b>	<b>65010.0</b>	<b>60440.0</b>	<b>49270.0</b>	<b>32430.0</b>	<b>16000.0</b>	<b>9890.0</b>	<b>6220.0</b>
-2.5°	72285.9	70937.9	71450.9	71040.8	68168.6	63313.5	51285.0	33529.6	16726.6	10218.5	6331.8
-5°	75064.0	74212.5	74601.2	73933.9	71006.2	65300.9	52081.0	33586.2	17063.4	10336.2	6327.9
-7.5°	77913.0	77634.8	77817.5	76738.7	73551.5	66299.7	51510.2	32506.1	16944.0	10209.9	6197.5
-10°	81328.8	81257.1	81137.9	79526.9	75835.6	66232.1	49454.7	30214.8	16310.5	9810.1	5930.8
-12.5°	85647.3	85194.8	84308.5	82340.2	77890.0	65048.3	45831.0	26660.2	15115.4	9112.0	5519.9
-15°	90022.9	88648.2	86574.5	83264.5	76083.7	61248.9	40699.9	21812.4	13322.6	8096.2	4959.0
-17.5°	93412.0	91164.7	88204.2	83593.9	71745.7	53984.1	34453.8	19371.9	11717.7	7036.8	4280.3
-20°	95848.1	92656.6	87945.1	79057.3	64759.1	45500.4	27153.2	16507.2	10035.2	6150.4	3715.4





REPORT NUMBER: P699907 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-1L-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	96191.9	91910.0	84450.2	72459.2	54383.5	36562.4	22158.1	13563.1	8173.8	5101.9	3048.3
-25°	93317.6	87423.6	76454.2	60311.9	43391.0	27199.5	17616.4	11240.9	7013.7	4260.4	2357.9
-27.5°	85650.0	76927.2	63058.3	47425.6	31830.8	21423.2	13882.1	8763.3	5650.3	3427.3	1983.9
-30°	72219.9	60015.0	47551.8	34237.2	23962.8	15898.3	10456.8	7059.1	4462.6	2573.6	1529.7
-32.5°	53542.1	43029.6	32249.8	24555.7	17082.3	11736.9	8132.2	5324.3	3221.6	2011.0	1197.5
-35°	35594.9	28786.9	22299.4	16898.4	12112.6	8755.0	5924.5	3802.6	2401.9	1444.5	872.2
-37.5°	24233.4	19436.5	15479.5	11573.4	8773.5	6174.4	4083.4	2662.3	1635.7	1042.8	657.1
-40°	16593.6	13164.5	10642.7	8101.3	5978.6	3987.0	2751.2	1743.3	1144.4	711.7	493.0
-42.5°	11234.1	9075.0	7119.0	5341.6	3720.1	2651.5	1740.2	1151.0	733.7	515.8	417.9
-45°	7340.7	5835.6	4347.4	3323.9	2329.1	1632.7	1041.0	714.5	502.5	411.8	363.3
-47.5°	4421.1	3515.0	2609.9	1945.1	1380.8	900.8	658.6	454.7	393.3	346.1	346.8
-50°	2457.9	1960.0	1458.2	1024.5	783.5	557.4	430.7	357.2	323.4	320.9	301.7
-52.5°	1230.7	1008.4	790.0	578.7	462.9	381.2	315.1	296.7	288.1	261.4	206.0
-55°	631.1	525.7	441.6	363.5	306.9	292.3	276.5	253.1	220.5	179.4	156.0
-57.5°	340.2	298.5	288.5	277.4	265.2	244.6	217.9	188.1	166.1	145.7	125.8
-60°	260.7	253.0	238.5	221.2	201.1	178.8	163.6	147.4	130.4	118.9	106.6
-62.5°	199.9	187.3	174.8	163.6	151.4	138.4	126.7	117.9	108.6	98.4	87.7
-65°	147.9	139.6	130.4	124.2	117.6	110.6	103.1	95.1	86.7	77.8	69.2
-67.5°	112.9	108.5	103.5	98.1	92.3	86.0	79.2	72.1	66.4	61.1	56.3
-70°	85.0	81.0	76.7	71.9	67.8	64.1	60.2	56.0	51.5	48.4	46.8
-72.5°	61.3	59.0	56.5	53.8	50.8	48.8	47.0	45.2	43.3	41.2	40.5
-75°	46.3	45.3	44.3	43.1	41.8	40.4	39.6	39.2	39.2	39.6	40.1
-77.5°	36.9	36.2	35.9	35.7	35.7	35.8	36.2	36.5	36.3	35.9	35.4
-80°	27.3	27.1	27.5	27.8	28.1	28.3	28.5	28.5	28.5	28.6	28.4
-82.5°	19.0	20.1	20.9	21.5	22.0	22.4	22.6	22.6	22.3	21.9	21.3
-85°	17.7	18.5	18.3	18.2	18.2	18.3	18.4	18.6	19.0	19.4	20.0
-87.5°	8.4	9.2	10.1	10.8	11.6	12.2	12.8	13.2	13.6	13.9	14.1
-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: P699907 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-1L-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°	14.3	14.3	14.2	14.0	13.7	13.3	12.8	12.2	11.5	10.3	9.0
85°	24.3	24.5	24.8	25.3	25.9	26.7	25.7	24.4	22.9	20.5	18.0
82.5°	30.0	29.4	28.8	28.5	28.3	28.4	28.7	29.2	30.0	30.0	27.0
80°	30.9	31.4	31.5	31.3	30.8	30.0	29.7	29.7	30.0	30.0	30.0
77.5°	34.5	34.0	33.8	34.0	33.9	33.4	32.4	30.9	30.0	30.0	30.0
75°	40.0	38.8	37.7	37.0	36.8	36.9	36.1	34.7	32.7	30.3	30.0
72.5°	41.2	41.3	40.9	39.9	38.9	38.5	38.6	38.6	36.4	33.6	30.8
70°	44.7	43.6	43.3	42.7	41.5	39.8	39.4	39.7	40.0	36.9	33.6
67.5°	49.9	47.9	46.5	45.7	44.8	43.1	40.6	39.9	40.3	40.0	36.4
65°	56.4	53.1	49.8	48.3	47.5	46.8	44.4	41.1	40.6	40.6	39.2
62.5°	62.7	59.1	55.3	51.4	49.2	48.6	48.3	45.0	41.7	41.3	40.6
60°	69.0	65.0	60.9	56.7	52.3	49.6	49.5	48.8	44.8	42.1	41.5
57.5°	80.3	71.6	66.4	61.8	57.1	52.3	49.9	50.1	47.8	44.2	42.4
55°	92.1	83.1	73.5	66.8	61.8	56.7	51.4	50.4	50.1	46.5	43.5
52.5°	102.8	94.3	84.0	73.5	66.4	60.9	55.3	50.9	50.7	48.6	45.1
50°	146.1	105.9	94.9	83.1	71.6	65.0	59.1	53.9	51.5	50.2	46.7
47.5°	224.5	155.6	107.0	93.1	80.3	69.0	62.9	56.9	52.4	51.1	48.2
45°	276.0	239.2	148.5	105.2	88.6	75.8	66.9	59.6	54.8	52.1	49.5
42.5°	317.0	295.7	234.0	118.8	99.8	83.9	70.9	63.2	56.9	53.3	50.6
40°	343.9	333.8	308.8	203.0	111.9	92.2	78.0	67.0	58.8	54.6	51.6
37.5°	367.6	362.5	343.9	290.0	140.9	103.7	85.4	70.8	61.0	56.1	52.7
35°	456.4	383.0	378.4	341.9	214.3	115.1	92.7	75.7	64.3	57.4	53.8
32.5°	552.4	424.3	397.1	361.7	282.1	126.3	101.7	82.1	67.7	58.6	55.0
30°	689.3	513.9	405.3	379.4	330.8	180.1	111.4	88.4	71.0	59.5	56.2
27.5°	842.7	596.9	429.3	389.8	345.6	232.7	120.8	94.4	74.2	61.0	57.0
25°	1003.6	715.2	501.2	399.8	358.4	280.0	129.9	100.4	78.6	63.6	57.7
22.5°	1199.5	848.2	571.1	411.3	369.4	321.3	153.6	107.9	83.3	66.1	58.3
20°	1411.9	981.4	638.4	432.7	378.6	330.4	188.7	114.9	87.8	68.4	58.8
17.5°	1651.7	1136.1	739.7	487.2	387.9	337.9	219.2	121.4	91.9	70.6	59.2
15°	1980.1	1316.3	844.1	537.7	397.4	343.8	245.2	127.4	95.8	72.6	59.5
12.5°	2324.7	1495.7	942.2	583.6	406.9	348.2	266.6	132.9	99.2	74.4	59.7
10°	2673.9	1669.6	1032.1	624.1	416.0	351.1	283.6	137.7	102.3	76.1	59.8
7.5°	3015.2	1832.7	1112.0	658.7	424.3	352.7	296.3	141.8	104.9	77.5	59.9
5°	3334.7	1979.4	1179.6	686.6	431.3	353.0	304.8	145.3	107.1	78.6	60.0
2.5°	3617.9	2103.8	1233.0	707.3	436.7	352.0	309.3	148.0	108.8	79.4	60.0
0°	3850.0	2200.0	1270.0	720.0	440.0	350.0	310.0	150.0	110.0	80.0	60.0
-2.5°	3885.2	2201.3	1262.4	714.2	439.5	354.0	316.2	150.6	110.2	80.2	60.3
-5°	3848.6	2166.8	1236.2	700.1	436.9	357.4	318.3	150.4	109.8	80.2	60.7
-7.5°	3734.7	2094.8	1191.0	678.0	432.5	360.4	315.8	149.3	108.9	79.8	61.0
-10°	3539.0	1984.1	1126.9	648.1	426.6	363.4	308.2	147.3	107.5	79.1	61.2
-12.5°	3257.6	1833.8	1043.7	610.8	419.7	366.6	295.2	144.4	105.5	78.1	61.4
-15°	2887.9	1643.1	941.8	566.4	412.0	370.4	276.4	140.5	103.0	76.7	61.6
-17.5°	2427.8	1411.7	821.2	515.4	403.9	375.0	251.5	135.7	100.0	75.1	61.6
-20°	2101.8	1205.2	695.8	458.0	395.7	380.6	220.2	129.9	96.5	73.1	61.5



REPORT NUMBER: P699907 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-1L-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1773.4	1037.2	625.3	436.7	392.9	387.5	182.2	123.1	92.5	70.9	61.4
-25°	1401.2	850.2	548.9	425.6	399.2	343.7	156.3	115.3	87.9	68.3	61.1
-27.5°	1138.3	677.1	467.2	415.6	407.8	290.5	146.9	109.6	83.6	65.5	60.7
-30°	920.5	583.7	440.0	411.8	418.6	229.1	136.4	103.5	80.0	64.1	60.2
-32.5°	698.8	485.3	430.5	424.5	369.8	164.2	124.8	96.8	76.2	63.5	58.8
-35°	578.8	438.1	415.3	440.3	286.6	150.5	114.1	89.7	72.1	62.7	57.0
-37.5°	450.7	413.6	418.1	397.8	194.1	135.5	105.7	83.8	67.7	61.7	55.2
-40°	416.7	395.9	418.0	283.8	155.9	119.5	96.8	78.5	65.4	60.4	53.3
-42.5°	378.7	392.1	331.4	173.0	137.1	109.1	87.8	73.0	63.9	58.4	51.2
-45°	369.4	345.2	218.3	150.3	118.7	98.3	81.4	67.7	62.0	56.0	49.5
-47.5°	332.6	233.7	158.8	128.1	106.6	88.2	74.7	65.4	59.9	53.4	48.2
-50°	226.9	162.6	134.2	112.2	94.0	80.3	68.8	62.7	57.0	50.8	46.7
-52.5°	161.7	135.7	114.9	98.2	84.0	71.9	65.3	59.6	53.9	48.6	45.1
-55°	132.4	115.0	99.5	85.9	74.0	66.2	61.2	56.1	50.7	46.5	43.5
-57.5°	112.2	98.1	85.7	74.2	66.4	61.2	56.9	52.5	47.8	44.2	42.4
-60°	94.3	83.0	72.2	65.4	60.2	56.1	52.6	48.8	44.8	42.1	41.5
-62.5°	77.4	68.5	62.9	57.9	54.4	51.3	48.3	45.0	41.7	41.3	40.6
-65°	63.6	58.5	54.2	51.7	49.2	46.8	44.4	41.1	40.6	40.6	39.2
-67.5°	52.0	50.2	48.2	46.1	44.8	43.1	40.6	39.9	40.3	40.0	36.4
-70°	45.3	43.8	43.3	42.7	41.5	39.8	39.4	39.7	40.0	36.9	33.6
-72.5°	41.2	41.3	40.9	39.9	38.9	38.5	38.6	38.5	36.4	33.6	30.8
-75°	40.0	38.8	37.7	37.0	36.8	36.8	35.6	34.3	32.7	30.3	30.0
-77.5°	34.5	34.0	33.8	33.3	32.5	31.8	31.0	30.1	30.0	30.0	30.0
-80°	28.3	28.0	27.8	27.5	27.1	26.8	27.9	29.0	30.0	30.0	30.0
-82.5°	21.5	22.3	23.4	24.5	25.7	26.8	27.9	29.0	30.0	30.0	27.0
-85°	21.2	22.3	23.4	24.5	25.6	26.7	25.7	24.4	22.9	20.5	18.0
-87.5°	14.3	14.3	14.2	14.0	13.7	13.3	12.8	12.2	11.5	10.3	9.0
-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: P699907 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-1L-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°	7.8	6.5	5.2	3.9	2.6	1.3	0.0
85°	15.5	13.0	10.4	7.8	5.2	2.6	0.0
82.5°	23.2	19.4	15.6	11.7	7.8	3.9	0.0
80°	30.0	25.8	20.7	15.6	10.4	5.2	0.0
77.5°	30.0	30.0	25.8	19.4	13.0	6.5	0.0
75°	30.0	30.0	30.0	23.2	15.5	7.8	0.0
72.5°	30.0	30.0	30.0	27.0	18.0	9.0	0.0
70°	30.3	30.0	30.0	30.0	20.5	10.3	0.0
67.5°	32.7	30.0	30.0	30.0	22.9	11.5	0.0
65°	35.1	31.0	30.0	30.0	25.3	12.7	0.0
62.5°	37.5	32.9	30.0	30.0	27.7	13.8	0.0
60°	39.7	34.9	30.0	30.0	30.0	15.0	0.0
57.5°	40.9	36.7	31.4	30.0	30.0	16.1	0.0
55°	41.9	38.5	32.9	30.0	30.0	17.2	0.0
52.5°	42.9	40.2	34.3	30.0	30.0	18.3	0.0
50°	44.0	41.1	35.6	30.0	30.0	19.3	0.0
47.5°	45.2	42.1	36.9	30.2	30.0	20.3	0.0
45°	46.3	43.1	38.2	31.2	30.0	21.2	0.0
42.5°	47.3	44.2	39.4	32.1	30.0	22.1	0.0
40°	48.2	45.2	40.4	33.0	30.0	23.0	0.0
37.5°	48.9	46.3	41.2	33.8	30.0	23.8	0.0
35°	49.6	47.1	42.0	34.6	30.0	24.6	0.0
32.5°	50.3	47.6	42.8	35.3	30.0	25.3	0.0
30°	51.2	48.1	43.6	36.0	30.0	26.0	0.0
27.5°	52.1	48.5	44.3	36.6	30.0	26.6	0.0
25°	53.0	48.9	45.0	37.2	30.0	27.2	0.0
22.5°	53.9	49.2	45.7	37.7	30.0	27.7	0.0
20°	54.8	49.4	46.4	38.2	30.0	28.2	0.0
17.5°	55.7	49.6	47.0	38.6	30.0	28.6	0.0
15°	56.5	49.7	47.6	39.0	30.0	29.0	0.0
12.5°	57.3	49.9	48.2	39.3	30.0	29.3	0.0
10°	58.0	49.9	48.7	39.5	30.0	29.5	0.0
7.5°	58.6	50.0	49.1	39.7	30.0	29.7	0.0
5°	59.2	50.0	49.5	39.9	30.0	29.9	0.0
2.5°	59.6	50.0	49.8	40.0	30.0	30.0	0.0
0°	60.0	50.0	50.0	40.0	30.0	30.0	0.0
-2.5°	59.9	50.0	49.8	40.0	30.0	30.0	0.0
-5°	59.8	50.0	49.5	39.9	30.0	29.9	0.0
-7.5°	59.5	50.0	49.1	39.7	30.0	29.7	0.0
-10°	59.1	49.9	48.7	39.5	30.0	29.5	0.0
-12.5°	58.5	49.9	48.2	39.3	30.0	29.3	0.0
-15°	57.9	49.7	47.6	39.0	30.0	29.0	0.0
-17.5°	57.2	49.6	47.0	38.6	30.0	28.6	0.0
-20°	56.3	49.4	46.4	38.2	30.0	28.2	0.0



REPORT NUMBER: P699907 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-1L-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	55.3	49.2	45.7	37.7	30.0	27.7	0.0
-25°	54.3	48.9	45.0	37.2	30.0	27.2	0.0
-27.5°	53.1	48.5	44.3	36.6	30.0	26.6	0.0
-30°	51.8	48.1	43.6	36.0	30.0	26.0	0.0
-32.5°	50.4	47.6	42.8	35.3	30.0	25.3	0.0
-35°	49.6	47.1	42.0	34.6	30.0	24.6	0.0
-37.5°	48.9	46.3	41.2	33.8	30.0	23.8	0.0
-40°	48.2	45.2	40.4	33.0	30.0	23.0	0.0
-42.5°	47.3	44.2	39.4	32.1	30.0	22.1	0.0
-45°	46.3	43.1	38.2	31.2	30.0	21.2	0.0
-47.5°	45.2	42.1	36.9	30.2	30.0	20.3	0.0
-50°	44.0	41.1	35.6	30.0	30.0	19.3	0.0
-52.5°	42.9	40.2	34.3	30.0	30.0	18.3	0.0
-55°	41.9	38.5	32.9	30.0	30.0	17.2	0.0
-57.5°	40.9	36.7	31.4	30.0	30.0	16.1	0.0
-60°	39.7	34.9	30.0	30.0	30.0	15.0	0.0
-62.5°	37.5	32.9	30.0	30.0	27.7	13.8	0.0
-65°	35.1	31.0	30.0	30.0	25.3	12.7	0.0
-67.5°	32.7	30.0	30.0	30.0	22.9	11.5	0.0
-70°	30.3	30.0	30.0	30.0	20.5	10.3	0.0
-72.5°	30.0	30.0	30.0	27.0	18.0	9.0	0.0
-75°	30.0	30.0	30.0	23.2	15.5	7.8	0.0
-77.5°	30.0	30.0	25.8	19.4	13.0	6.5	0.0
-80°	30.0	25.8	20.7	15.6	10.4	5.2	0.0
-82.5°	23.2	19.4	15.6	11.7	7.8	3.9	0.0
-85°	15.5	13.0	10.4	7.8	5.2	2.6	0.0
-87.5°	7.8	6.5	5.2	3.9	2.6	1.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)