

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: P699925 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-57-80-3L-S**

Issue Date: 8/10/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P699925 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-54)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200L-57-80-3L-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 5700K, 80 CRI LEDS AND 3L BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

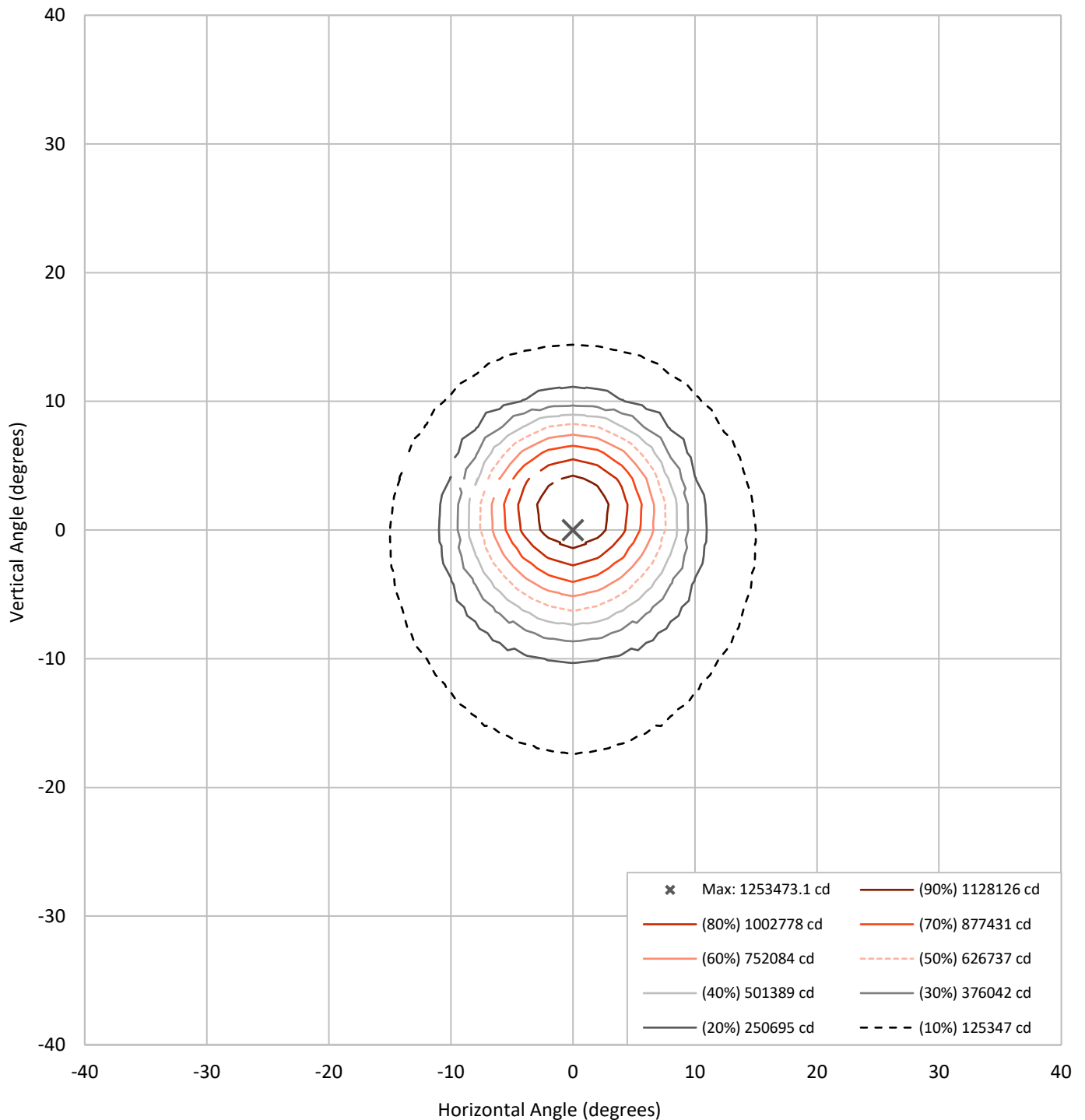
Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	164221.2 lumens	Max Intensity:	1253473.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	130.8 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		

Beam Angle (50%):	15.2°H x 14.5°V	Field Angle (10%):	29.6°H x 31.5°V
Beam Lumens:	45787.1 lumens	Field Lumens:	91375.7 lumens
Beam Efficiency:	27.9%	Field Efficiency:	55.6%

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





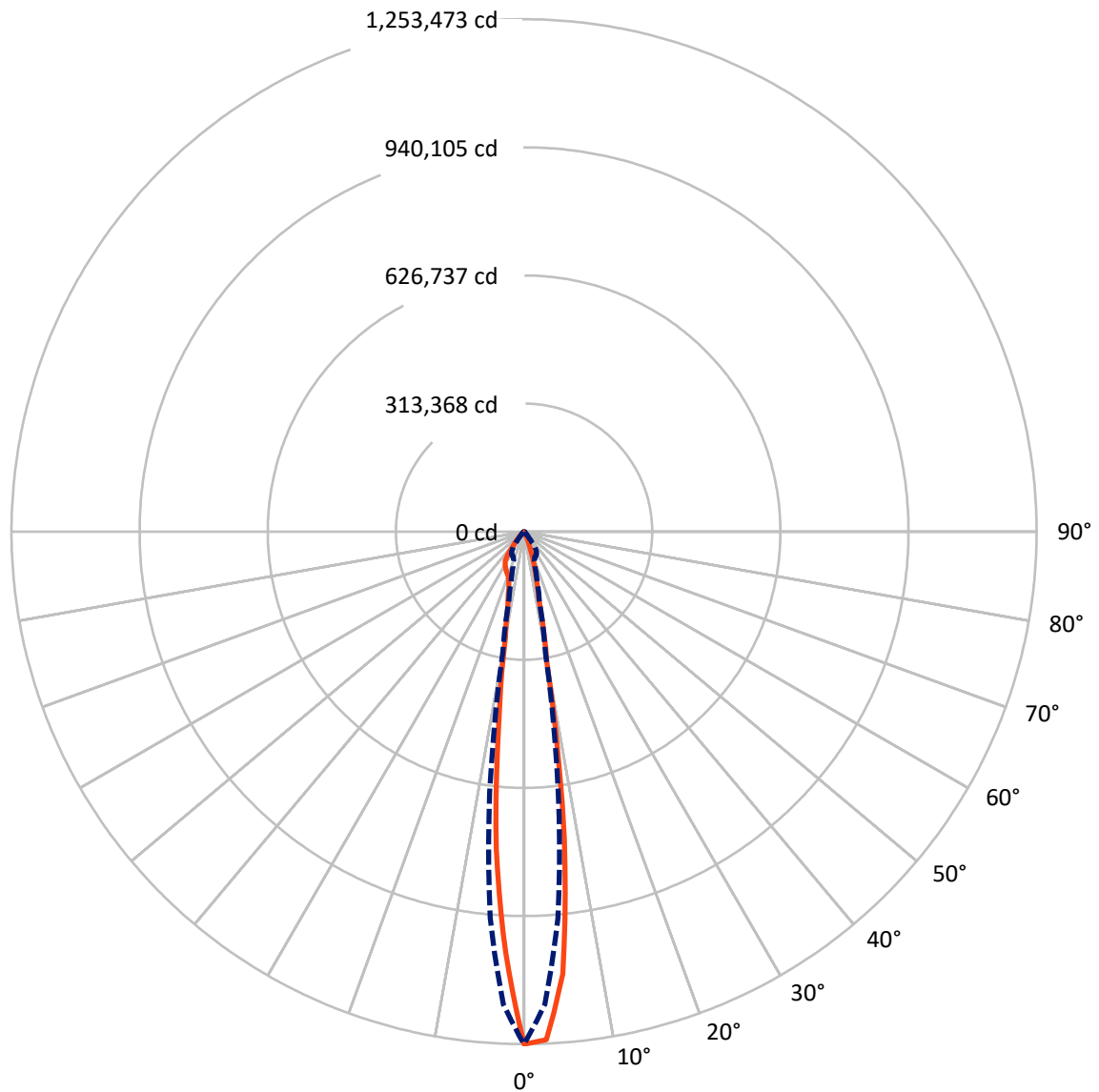
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### Lumen Table

90	0.3	1.3		2.3		3.3		3.6		3.3		2.3		1.3		0.3			
80	0.3	1.3		2.3		3.3		3.6		3.3		2.3		1.3		0.3			
70	0.6	0.5	0.7	1.1	1.8	2.4	3.1	3.6	3.6	3.1	2.4	1.8	1.1	0.7	0.5	0.6			
60		0.6	1.1	2.1	3.6	6.4	12.3	25.8	25.8	12.3	6.4	3.6	2.1	1.1	0.6				
50	0.7	0.7	1.8	4.5	9.5	16.2	23.5	34.3	34.3	23.5	16.2	9.5	4.5	1.8	0.7	0.7			
40		1.0	3.4	9.2	17.8	28.7	45.2	63.5	63.5	45.2	28.7	17.8	9.2	3.4	1.0				
30	0.9	1.4	5.9	17.2	64.3	232.4	396.7	514.8	514.8	396.7	232.4	64.3	17.2	5.9	1.4	0.9			
20		1.8	9.5	43.7	384.7	1033.2	1714.8	3352.0	3352.0	1714.8	1033.2	384.7	43.7	9.5	1.8				
10	1.0	2.1	14.8	108.3	865.2	1656.2	3509.2	20348.6	20348.6	3509.2	1656.2	865.2	108.3	14.8	2.1	1.0			
0		2.4	19.6	163.4	1142.4	1998.6	3739.8	16345.2	16345.2	3739.8	1998.6	1142.4	163.4	19.6	2.4				
-10	0.9	2.4	17.3	143.6	1002.8	2268.7	2942.3	4304.8	4304.8	2942.3	2268.7	1002.8	143.6	17.3	2.4	0.9			
-20		1.8	10.7	73.4	510.0	1838.3	2736.6	3058.7	3058.7	2736.6	1838.3	510.0	73.4	10.7	1.8				
-30	0.7	1.2	5.8	23.6	152.4	648.6	1427.3	1939.9	1939.9	1427.3	648.6	152.4	23.6	5.8	1.2	0.7			
-40		0.8	2.9	8.0	27.7	118.8	282.6	413.1	413.1	282.6	118.8	27.7	8.0	2.9	0.8				
-50	0.6	0.6	1.3	3.4	6.5	12.5	27.3	40.4	40.4	27.3	12.5	6.5	3.4	1.3	0.6	0.6			
-60		0.4	0.8	1.4	2.3	3.6	4.9	5.5	5.5	4.9	3.6	2.3	1.4	0.8	0.4				
-70	0.3	0.3	1.2	2.2	3.1	3.4	3.1	2.2	1.2	0.3	0.3	1.2	2.2	3.1	3.4	3.1	2.2	1.2	0.3
-80		0.3	1.2	2.2	3.1	3.4	3.1	2.2	1.2	0.3	0.3	1.2	2.2	3.1	3.4	3.1	2.2	1.2	0.3
-90	0.3	1.2		2.2		3.1		3.4		3.1		2.2		1.2		0.3			

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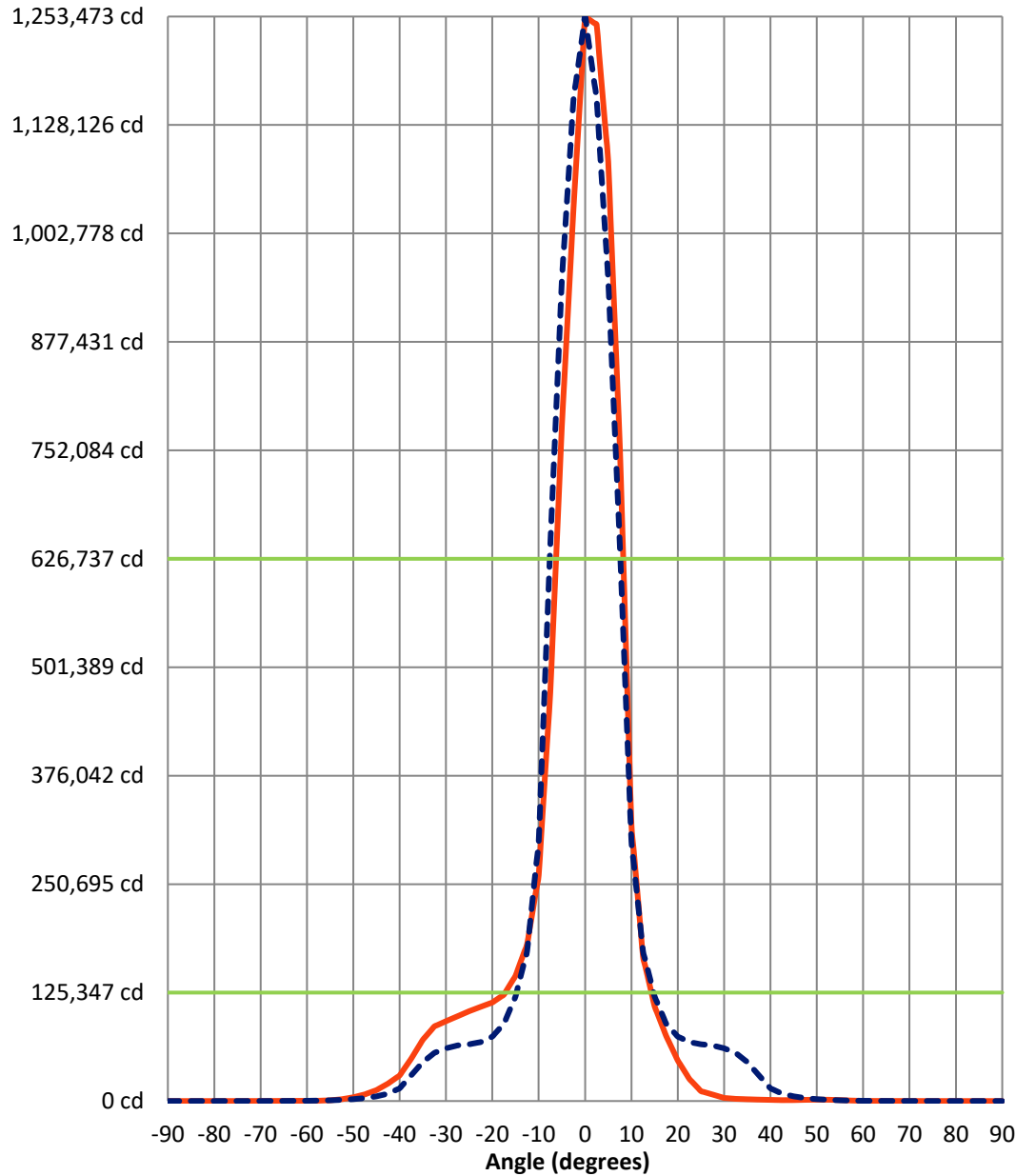
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 15.2°  
 V Angle: 14.5°  
 Lumens: 45787.1  
 Efficiency: 27.9%

**Field:**  
 H Angle: 29.6°  
 V Angle: 31.5°  
 Lumens: 91375.7  
 Efficiency: 55.6%

**Spill:**  
 Lumens: 72845.5  
 Efficiency: 44.4%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.8	1.6	2.5	3.3	4.1	4.9	5.7	6.5	7.2	8.0
85°	0.0	1.6	3.3	4.9	6.6	8.2	9.8	11.4	12.9	14.4	16.0
82.5°	0.0	2.5	4.9	7.4	9.8	12.2	14.6	17.0	19.1	20.3	21.4
80°	0.0	3.3	6.6	9.8	13.1	16.3	19.2	20.8	22.3	23.9	25.4
77.5°	0.0	4.1	8.2	12.2	16.3	19.6	21.6	23.6	25.5	27.5	28.4
75°	0.0	4.9	9.8	14.6	19.2	21.6	24.0	26.4	28.4	28.4	28.4
72.5°	0.0	5.7	11.4	17.0	20.8	23.6	26.4	28.4	28.4	28.4	28.4
70°	0.0	6.5	12.9	19.1	22.3	25.5	28.4	28.4	28.4	28.5	31.4
67.5°	0.0	7.2	14.4	20.3	23.9	27.5	28.4	28.4	28.5	31.9	35.2
65°	0.0	8.0	16.0	21.4	25.4	28.4	28.4	28.4	31.4	35.2	37.8
62.5°	0.0	8.7	17.4	22.5	26.9	28.4	28.4	30.2	34.4	37.8	37.8
60°	0.0	9.4	18.9	23.6	28.3	28.4	28.4	32.7	37.2	37.8	37.8
57.5°	0.0	10.2	19.6	24.7	28.4	28.4	30.3	35.2	37.8	37.8	40.2
55°	0.0	10.8	20.3	25.7	28.4	28.4	32.3	37.5	37.8	38.5	43.6
52.5°	0.0	11.5	21.0	26.7	28.4	28.7	34.3	37.8	37.8	41.5	47.0
50°	0.0	12.1	21.6	27.7	28.4	30.3	36.2	37.8	38.6	44.4	48.8
47.5°	0.0	12.8	22.2	28.4	28.4	31.8	37.8	37.8	41.1	47.2	50.9
45°	0.0	13.4	22.8	28.4	28.4	33.3	37.8	37.8	43.5	49.6	53.4
42.5°	0.0	13.9	23.4	28.4	28.4	34.7	37.8	39.0	45.8	52.2	57.5
40°	0.0	14.5	23.9	28.4	28.9	36.1	37.8	40.9	48.0	55.1	61.3
37.5°	0.0	15.0	24.5	28.4	30.0	37.4	37.8	42.7	50.1	57.5	64.5
35°	0.0	15.5	25.0	28.4	30.9	37.8	37.8	44.5	52.1	59.7	68.1
32.5°	0.0	15.9	25.4	28.4	31.9	37.8	38.2	46.1	54.0	61.8	73.2
30°	0.0	16.4	25.8	28.4	32.7	37.8	39.5	47.7	55.8	63.8	78.4
27.5°	0.0	16.8	26.2	28.4	33.5	37.8	40.7	49.1	57.4	65.6	83.6
25°	0.0	17.1	26.6	28.4	34.2	37.8	41.9	50.4	58.9	69.0	89.2
22.5°	0.0	17.5	27.0	28.4	34.9	37.8	42.9	51.6	60.3	73.1	98.9
20°	0.0	17.8	27.3	28.4	35.5	37.8	43.8	52.7	61.5	77.2	107.7
17.5°	0.0	18.0	27.5	28.4	36.0	37.8	44.6	53.6	62.6	81.0	115.8
15°	0.0	18.3	27.8	28.4	36.5	37.8	45.3	54.5	63.5	84.7	123.0
12.5°	0.0	18.5	27.9	28.4	36.9	37.8	45.9	55.2	65.1	88.1	129.2
10°	0.0	18.6	28.1	28.4	37.2	37.8	46.4	55.8	67.3	90.8	134.8
7.5°	0.0	18.7	28.2	28.4	37.5	37.8	46.8	56.2	69.6	92.6	140.2
5°	0.0	18.8	28.3	28.4	37.7	37.8	47.1	56.5	71.8	93.8	144.8
2.5°	0.0	18.9	28.4	28.4	37.8	37.8	47.2	56.7	73.8	94.4	148.6
0°	0.0	18.9	28.4	28.4	37.8	37.8	47.3	56.8	75.7	94.6	151.4
-2.5°	0.0	18.9	28.4	28.4	37.8	37.8	47.2	56.7	75.5	96.4	157.4
-5°	0.0	18.8	28.3	28.4	37.7	37.8	47.1	56.5	75.1	97.7	161.9
-7.5°	0.0	18.7	28.2	28.4	37.5	37.8	46.8	56.2	74.4	98.5	164.7
-10°	0.0	18.6	28.1	28.4	37.2	37.8	46.4	55.8	73.3	98.6	165.6
-12.5°	0.0	18.5	27.9	28.4	36.9	37.8	45.9	55.2	72.0	97.7	161.1
-15°	0.0	18.3	27.8	28.4	36.5	37.8	45.3	54.5	70.3	94.9	153.4
-17.5°	0.0	18.0	27.5	28.4	36.0	37.8	44.6	53.6	68.4	91.7	143.9
-20°	0.0	17.8	27.3	28.4	35.5	37.8	43.8	52.7	66.2	87.9	132.7



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 CATALOG NUMBER: EPH-LS-16-1200L-57-80-3L-S

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	17.5	27.0	28.4	34.9	37.8	42.9	51.6	63.8	83.7	119.6
-25°	0.0	17.1	26.6	28.4	34.2	37.6	41.9	50.4	61.0	79.0	104.8
-27.5°	0.0	16.8	26.2	28.4	33.5	37.3	40.7	49.1	58.0	74.5	98.6
-30°	0.0	16.4	25.8	28.4	32.7	37.0	39.5	47.7	55.8	70.8	92.4
-32.5°	0.0	15.9	25.4	28.4	31.7	36.5	38.2	46.1	54.0	66.9	85.7
-35°	0.0	15.5	25.0	28.4	30.8	35.9	37.4	44.5	52.1	62.6	78.6
-37.5°	0.0	15.0	24.5	28.4	29.8	35.0	36.8	42.7	50.1	58.1	72.6
-40°	0.0	14.5	23.9	28.4	28.9	33.7	35.9	40.9	48.0	55.1	67.3
-42.5°	0.0	13.9	23.4	28.4	28.4	32.5	34.8	39.0	45.8	52.6	61.8
-45°	0.0	13.4	22.8	28.4	28.4	31.4	33.6	37.2	43.5	50.0	56.4
-47.5°	0.0	12.8	22.2	28.4	28.4	30.4	32.2	35.4	41.1	47.2	53.3
-50°	0.0	12.1	21.6	27.7	28.4	29.4	31.1	33.4	38.6	44.4	50.2
-52.5°	0.0	11.5	21.0	26.7	28.4	28.5	30.2	31.2	36.0	41.5	47.0
-55°	0.0	10.8	20.3	25.7	28.4	28.4	29.4	28.9	33.3	38.5	43.6
-57.5°	0.0	10.2	19.6	24.7	28.4	28.4	28.8	28.5	30.6	35.4	40.2
-60°	0.0	9.4	18.9	23.6	28.3	28.4	28.4	28.4	28.4	32.3	36.7
-62.5°	0.0	8.7	17.4	22.5	26.9	28.4	28.4	28.4	28.4	29.1	33.1
-65°	0.0	8.0	16.0	21.4	25.4	28.4	28.4	28.3	28.4	28.4	29.5
-67.5°	0.0	7.2	14.4	20.3	23.9	27.5	28.4	28.0	28.4	28.4	28.4
-70°	0.0	6.5	12.9	19.1	22.3	25.5	28.4	27.5	27.2	28.4	28.4
-72.5°	0.0	5.7	11.4	17.0	20.8	23.6	26.4	26.9	25.9	26.2	27.7
-75°	0.0	4.9	9.8	14.6	19.2	21.6	24.0	24.9	24.4	23.7	24.1
-77.5°	0.0	4.1	8.2	12.2	16.3	19.6	21.6	22.6	22.5	21.5	20.3
-80°	0.0	3.3	6.6	9.8	13.1	16.3	19.2	20.4	20.7	20.3	19.1
-82.5°	0.0	2.5	4.9	7.4	9.8	12.2	14.6	17.0	19.0	19.3	18.9
-85°	0.0	1.6	3.3	4.9	6.6	8.2	9.8	11.4	12.9	14.4	16.0
-87.5°	0.0	0.8	1.6	2.5	3.3	4.1	4.9	5.7	6.5	7.2	8.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	9.4	10.2	10.8	11.5	12.1	12.8	13.4	13.9	14.5	15.0
85°	17.4	18.9	19.1	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
82.5°	21.7	21.4	20.5	19.1	18.9	18.9	19.1	20.0	20.4	20.4	19.9
80°	25.2	24.0	22.6	21.9	23.0	24.3	25.5	26.7	26.0	24.3	22.8
77.5°	27.1	26.2	26.3	27.1	28.4	28.4	28.4	28.4	27.8	27.7	28.1
75°	28.0	28.3	29.0	28.8	28.4	28.4	28.7	30.5	31.6	31.6	30.8
72.5°	30.0	31.1	30.9	29.6	30.5	32.7	34.9	37.0	37.0	36.6	38.1
70°	33.7	34.2	33.6	34.1	36.0	37.8	37.8	37.8	38.3	42.1	47.3
67.5°	37.2	36.1	36.5	37.9	37.8	37.8	37.8	42.5	48.4	53.8	57.5
65°	37.7	37.5	39.0	39.3	38.0	41.4	46.7	53.4	59.0	62.0	64.7
62.5°	37.8	40.3	41.7	41.7	43.2	47.8	55.3	61.4	65.8	71.6	77.5
60°	41.0	44.1	44.5	45.3	49.0	57.2	64.6	70.4	77.5	85.3	91.7
57.5°	44.9	46.6	46.4	50.7	59.3	67.0	72.4	79.6	90.0	98.8	106.5
55°	47.6	47.2	50.7	60.2	67.9	72.4	80.7	93.7	104.3	116.4	126.1
52.5°	48.6	49.3	59.3	67.9	72.9	82.1	96.2	111.0	125.6	138.8	152.4
50°	50.1	57.3	67.0	72.4	82.7	99.0	115.2	133.0	152.2	169.1	190.4
47.5°	55.2	64.4	71.1	80.0	99.7	119.2	138.4	163.0	185.4	214.5	245.5
45°	60.8	69.6	75.7	96.6	119.0	142.3	170.1	197.9	230.2	267.1	316.5
42.5°	65.7	74.7	90.5	113.5	141.3	171.7	204.9	240.1	278.7	331.8	395.7
40°	70.7	80.4	107.4	135.4	166.2	204.9	246.3	287.1	336.3	406.5	483.3
37.5°	76.0	96.0	125.4	157.7	197.2	242.7	289.8	345.9	411.0	487.1	570.3
35°	81.7	111.6	145.9	184.8	230.5	284.5	344.0	412.1	497.5	575.3	652.6
32.5°	92.3	127.1	166.4	215.9	270.5	330.4	398.4	495.4	586.7	668.3	724.5
30°	105.8	145.0	189.0	247.3	310.6	384.6	472.4	579.3	675.2	754.4	814.4
27.5°	118.3	162.7	217.0	281.9	352.4	441.0	559.7	663.1	760.6	849.1	924.0
25°	129.9	179.7	244.8	316.5	403.6	515.1	652.4	777.3	856.5	967.6	1172.2
22.5°	142.4	196.8	269.9	350.0	455.4	595.8	761.5	922.9	1055.2	1146.1	1533.8
20°	156.0	217.9	295.9	387.6	509.4	676.8	882.7	1100.2	1327.6	1723.6	2651.8
17.5°	169.0	237.2	323.8	437.1	590.7	786.2	1018.5	1304.2	1654.4	2454.4	4561.2
15°	181.4	254.6	351.7	488.0	682.1	943.4	1261.1	1616.3	2183.5	3573.5	6873.6
12.5°	193.0	270.1	378.8	539.2	777.9	1115.9	1556.7	2142.8	3117.9	5483.3	11391.1
10°	203.5	283.6	404.7	589.4	875.3	1297.7	1878.6	2746.0	4222.7	7595.4	15928.8
7.5°	210.1	293.1	429.4	637.2	971.2	1482.1	2213.9	3396.7	5359.4	9592.9	20288.5
5°	214.4	298.4	456.3	707.0	1104.1	1697.0	2568.5	4063.1	6485.2	11429.7	24310.7
2.5°	216.8	301.6	480.8	777.7	1257.6	1955.5	2992.8	4784.8	7558.0	13169.2	27540.8
0°	217.6	302.7	501.4	841.9	1400.0	2194.6	3386.6	5448.8	8523.2	14709.8	29788.5
-2.5°	231.5	336.9	543.7	889.6	1473.7	2345.3	3672.0	5965.9	9587.2	16440.7	31494.7
-5°	243.4	367.4	579.9	926.5	1525.8	2458.0	3892.8	6360.7	10367.9	17547.4	31989.8
-7.5°	252.7	392.6	609.3	945.9	1532.3	2475.4	3947.6	6444.3	10580.8	17748.9	31225.1
-10°	257.9	397.7	595.0	912.0	1478.7	2412.0	3892.3	6363.3	10479.5	17412.7	29609.6
-12.5°	252.9	385.7	569.4	866.0	1398.7	2295.6	3736.4	6101.0	10024.0	16491.8	27019.1
-15°	244.6	370.7	539.8	807.6	1291.2	2122.2	3470.5	5642.0	9090.1	14536.7	22804.5
-17.5°	232.7	353.0	506.9	736.6	1155.1	1888.5	3060.7	4871.8	7896.5	12755.4	20052.1
-20°	217.1	332.8	471.1	652.8	1004.2	1625.2	2629.3	4238.6	6842.4	10932.3	16955.1



REPORT NUMBER: P699925 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-3L-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	197.6	310.3	437.6	597.8	876.3	1371.6	2192.8	3501.1	5575.0	8778.1	13949.1
-25°	178.1	287.3	408.2	536.9	742.5	1102.7	1718.7	2713.8	4442.6	7220.1	11375.7
-27.5°	160.3	259.3	367.2	476.1	611.4	856.9	1356.5	2166.5	3468.4	5488.1	8625.9
-30°	140.4	223.3	325.5	419.3	530.1	712.0	1036.2	1589.3	2508.0	4138.2	6562.3
-32.5°	118.4	187.2	283.7	372.3	463.7	574.4	760.5	1187.1	1852.3	2841.1	4603.2
-35°	101.0	161.2	241.7	325.7	400.6	485.5	621.4	846.1	1249.0	1983.7	3175.9
-37.5°	92.6	133.7	199.8	279.7	350.5	420.0	486.4	636.4	890.1	1264.5	2147.5
-40°	83.8	104.8	165.5	234.4	303.8	363.2	421.0	486.6	620.7	912.1	1323.0
-42.5°	75.0	94.2	132.6	189.3	255.6	316.3	361.4	405.5	469.3	611.9	894.8
-45°	68.6	83.7	102.2	151.8	203.9	267.5	316.4	349.0	384.1	434.0	572.4
-47.5°	61.9	73.8	90.4	115.7	160.0	209.1	269.2	308.3	332.8	357.5	374.3
-50°	55.9	66.2	79.0	97.3	124.2	159.5	203.8	260.3	295.7	313.0	327.4
-52.5°	52.3	58.5	69.9	84.5	101.6	125.2	153.4	189.6	240.5	280.9	293.4
-55°	48.7	53.6	60.6	72.8	87.4	103.2	120.1	143.6	164.6	209.8	251.8
-57.5°	44.9	49.5	54.1	61.1	73.6	87.4	99.7	111.6	130.1	147.7	170.8
-60°	41.0	45.3	49.5	53.6	59.2	71.4	82.5	93.1	103.6	113.9	130.0
-62.5°	37.1	41.0	44.9	48.7	52.3	57.3	67.3	76.8	84.3	93.2	102.0
-65°	33.1	36.7	40.2	43.6	47.0	50.8	56.2	62.8	70.9	76.7	82.0
-67.5°	29.1	32.3	35.4	38.5	41.3	43.6	47.2	52.0	57.8	62.8	67.5
-70°	28.4	28.4	30.6	33.3	35.4	35.7	37.5	40.4	44.4	48.7	52.9
-72.5°	28.4	28.4	28.4	28.4	30.2	31.1	30.9	29.6	31.7	36.9	41.0
-75°	26.0	28.2	28.4	28.4	27.9	27.8	28.5	28.6	29.0	30.6	32.9
-77.5°	21.7	23.5	25.3	27.0	26.7	25.1	24.3	24.2	25.3	26.7	28.0
-80°	18.9	18.9	20.2	21.6	22.1	21.8	20.8	19.2	18.9	19.4	20.5
-82.5°	18.9	18.9	18.9	18.9	18.9	18.9	19.0	18.9	18.9	18.9	18.9
-85°	17.4	18.9	18.9	18.9	18.9	18.9	18.9	18.9	17.7	16.7	16.0
-87.5°	8.7	9.4	10.2	10.8	11.5	12.1	12.8	13.4	12.2	10.9	9.4
-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: P699925 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-3L-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°	15.5	14.0	12.3	10.5	8.6	8.8	8.9	9.1	9.2	7.0	4.7
85°	18.9	18.2	17.7	17.3	17.1	15.5	13.7	11.7	9.5	9.4	9.4
82.5°	19.0	18.9	18.9	18.9	18.9	18.4	18.1	17.9	17.9	18.2	18.5
80°	21.8	22.4	23.3	24.1	24.8	25.5	26.1	26.6	27.1	27.5	27.8
77.5°	28.5	28.8	29.7	31.2	33.1	34.2	34.9	35.6	36.2	36.7	37.1
75°	29.2	30.7	35.0	38.6	41.4	42.9	43.8	44.6	45.3	45.9	46.4
72.5°	41.2	45.1	47.7	49.1	50.4	51.6	52.7	53.6	54.5	55.2	55.8
70°	51.3	54.0	55.8	57.4	58.9	60.7	63.3	66.4	69.7	72.0	73.3
67.5°	59.7	61.8	63.8	65.6	68.4	72.1	76.2	79.4	81.7	84.1	87.2
65°	68.1	72.9	77.3	81.4	85.3	88.8	91.9	94.7	97.2	99.6	101.6
62.5°	83.0	88.3	93.2	97.9	102.1	106.9	112.2	116.9	120.9	125.1	130.2
60°	97.9	103.7	109.4	116.1	123.7	132.1	141.2	151.0	161.4	172.1	181.1
57.5°	114.5	120.3	127.1	140.7	153.5	165.6	185.5	214.0	244.9	279.5	340.0
55°	136.1	147.3	157.7	181.4	208.5	235.3	268.8	326.6	391.4	461.0	610.8
52.5°	165.6	191.4	216.8	248.3	293.2	338.5	387.7	473.6	564.5	658.4	848.0
50°	221.5	255.3	297.6	342.1	396.7	452.5	508.1	602.3	696.3	787.9	959.7
47.5°	291.0	338.6	390.7	439.5	500.3	555.5	603.8	678.5	759.0	828.1	939.0
45°	370.9	433.5	489.8	540.4	595.1	642.2	679.2	721.6	782.3	823.9	871.8
42.5°	465.0	527.5	585.4	633.5	676.8	719.2	754.1	783.7	829.1	871.4	908.5
40°	554.5	615.4	667.5	715.3	756.5	797.6	855.5	905.3	959.7	1033.5	1106.2
37.5°	639.7	693.3	742.0	789.5	852.3	923.3	992.3	1073.4	1165.6	1298.4	1431.8
35°	715.4	766.2	813.4	880.9	964.8	1048.7	1152.9	1305.4	1449.9	1614.6	1780.5
32.5°	783.2	842.4	909.5	995.3	1103.2	1305.1	1397.3	1611.0	1739.8	1946.8	2181.4
30°	853.1	952.2	1169.7	1297.8	1575.7	1957.0	2000.0	2219.5	2491.8	2670.2	3180.0
27.5°	1042.8	1311.3	1813.1	2727.3	2915.4	3464.6	4101.9	3828.2	5037.3	4863.1	6579.1
25°	1552.3	2153.7	4104.5	5869.3	6681.8	7382.9	8954.3	9435.4	11614.1	12991.0	13354.4
22.5°	2721.7	5337.3	8161.5	10652.5	12952.0	14829.9	16853.4	19838.3	21177.4	21854.3	22443.1
20°	4901.1	9684.2	13991.7	17562.2	20848.9	23996.0	27707.2	29922.0	31327.2	34229.0	37225.0
17.5°	9511.2	15379.6	20657.4	25134.0	29463.9	34354.2	37463.1	39981.9	43790.5	48985.4	54901.7
15°	14868.7	21799.2	27667.1	33062.7	38573.9	43318.9	46341.2	50245.2	56390.3	64433.0	74546.4
12.5°	20530.4	28208.3	34542.2	40525.0	47309.0	50534.3	53963.7	59667.3	68222.8	79843.7	100475.3
10°	26117.7	34238.1	41006.5	47387.5	52898.5	56180.1	60081.3	66848.5	80188.7	101694.8	131985.7
7.5°	31615.1	40242.6	47007.8	53166.4	57239.8	60146.1	65078.7	74752.2	93286.4	123038.7	169877.9
5°	36889.4	45920.7	52333.5	57629.6	60464.2	63241.3	68886.5	81349.9	106848.7	147460.6	227714.2
2.5°	41471.3	51103.8	56969.9	61230.9	63118.0	65770.3	72060.0	86189.4	116147.8	166822.0	293225.6
0°	44999.7	55641.8	60939.2	64287.9	65631.2	68185.3	74561.2	89365.5	120970.3	173376.9	300363.6
-2.5°	47565.6	59264.9	64453.6	67349.2	68555.5	70722.0	76712.8	90282.3	119885.8	169389.1	279587.1
-5°	48690.0	61492.6	67491.6	70529.2	71955.2	73857.0	78896.9	90741.6	115148.0	153281.0	223232.2
-7.5°	48291.1	62530.6	70120.6	73606.6	75369.8	77252.7	81310.3	90177.4	107568.0	135272.8	178515.8
-10°	46444.7	62458.2	72198.8	76438.7	78973.9	80914.5	83653.7	88925.4	100105.2	120193.0	145491.9
-12.5°	43090.4	60850.6	73724.1	78863.2	82142.2	84481.6	87054.4	90962.7	97215.5	106692.9	125082.7
-15°	38638.4	57001.6	71896.9	79875.2	84215.3	87693.2	90510.5	93014.2	97127.4	103029.8	111295.4
-17.5°	33238.4	50799.8	67635.8	79968.0	85435.3	89590.7	92674.0	95643.3	98234.2	102119.5	105959.9
-20°	26269.1	43093.7	61129.2	75422.9	84481.3	89609.6	93655.4	96560.1	99223.5	101694.0	104261.6



REPORT NUMBER: P699925 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-3L-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	21545.3	34639.9	51369.4	68738.1	79984.1	87384.0	92394.8	95526.3	98475.7	100281.9	102264.8
-25°	17308.4	25686.2	40715.0	56574.3	71484.2	81818.9	88486.8	92733.1	95373.0	97470.6	98966.5
-27.5°	13533.5	20405.6	29630.8	44098.6	58470.9	71128.5	80124.6	87938.6	90678.7	93274.5	94609.5
-30°	9876.0	15267.0	22606.2	31539.3	43908.9	55369.7	66365.7	75116.6	81967.8	87009.2	88914.5
-32.5°	7278.5	10739.2	16273.7	23087.4	29646.2	39589.5	49126.6	58109.6	66373.2	73149.2	77973.2
-35°	4964.6	7542.7	10635.4	15824.5	20951.5	26548.7	32623.9	40371.2	46874.4	54317.9	60702.8
-37.5°	3356.3	5022.7	7379.7	10190.2	14244.3	18054.2	22198.7	26315.4	30126.3	36139.8	41438.5
-40°	2190.5	3239.2	4890.3	6818.2	9413.8	11858.7	14935.5	17563.1	20326.1	23586.2	26375.9
-42.5°	1302.0	2071.7	3012.9	4408.9	5973.0	7678.7	9687.2	11572.7	13448.6	15407.1	17153.2
-45°	792.7	1213.5	1762.6	2638.5	3506.8	4717.7	5910.4	7005.5	8422.1	9673.6	10692.2
-47.5°	506.7	661.2	1003.6	1431.4	1941.1	2678.2	3397.3	4126.0	5019.7	5817.6	6453.4
-50°	352.7	416.9	557.1	699.9	1007.4	1365.7	1711.5	2158.9	2698.3	3188.8	3575.8
-52.5°	304.1	326.9	354.9	407.8	533.5	658.0	780.2	1033.8	1291.9	1523.3	1705.1
-55°	273.8	282.5	290.3	314.2	343.6	373.7	416.8	513.4	606.5	694.3	757.7
-57.5°	206.8	237.5	258.4	268.0	278.3	288.8	309.7	334.7	356.3	374.0	384.5
-60°	145.3	159.7	186.3	210.8	231.0	246.8	260.1	274.0	286.8	296.2	296.1
-62.5°	110.4	121.4	135.6	149.6	162.8	177.9	195.2	211.9	227.7	239.3	243.0
-65°	88.0	95.1	103.2	111.9	121.3	132.2	141.1	149.8	158.2	164.5	167.4
-67.5°	72.0	76.3	80.2	83.9	89.4	95.8	101.4	106.4	110.8	114.5	117.5
-70°	56.9	60.6	64.2	67.4	70.4	73.2	75.6	77.8	79.7	81.4	82.7
-72.5°	44.1	46.1	48.0	50.9	53.5	55.8	58.0	59.9	61.6	63.0	64.1
-75°	36.0	38.2	39.5	40.7	41.9	42.9	43.8	44.6	45.3	45.9	46.4
-77.5°	29.1	28.9	28.6	28.6	29.1	30.5	32.0	33.4	34.5	35.5	36.3
-80°	21.5	21.7	21.2	20.4	19.1	18.3	17.8	17.6	17.6	18.0	18.3
-82.5°	18.9	17.9	17.1	16.6	16.3	15.1	13.5	11.6	9.6	9.3	9.3
-85°	15.5	14.4	13.0	11.4	9.6	9.5	9.5	9.5	9.5	7.2	4.8
-87.5°	7.8	8.0	8.2	8.4	8.6	8.8	8.9	9.1	9.2	7.0	4.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699925 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-3L-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°	2.4	0.0	0.0	0.0	0.0	0.0	2.4	4.7	7.0	9.2	9.1
85°	9.4	9.4	9.5	9.5	9.5	9.4	9.4	9.4	9.4	9.5	11.7
82.5°	18.7	18.8	18.9	18.9	18.9	18.8	18.7	18.5	18.2	17.9	17.9
80°	28.1	28.3	28.4	28.4	28.4	28.3	28.1	27.8	27.5	27.1	26.6
77.5°	37.4	37.6	37.8	37.8	37.8	37.6	37.4	37.1	36.7	36.2	35.6
75°	46.8	47.1	47.2	47.3	47.2	47.1	46.8	46.4	45.9	45.3	44.6
72.5°	56.2	56.5	56.7	56.8	56.7	56.5	56.2	55.8	55.2	54.5	53.6
70°	74.4	75.1	75.5	75.7	75.5	75.1	74.4	73.3	72.0	69.7	66.4
67.5°	90.4	93.5	94.4	94.6	94.4	93.5	90.4	87.2	84.1	81.7	79.4
65°	102.9	103.7	104.0	104.1	104.0	103.7	102.9	101.6	99.6	97.2	94.7
62.5°	135.1	139.6	141.5	141.9	141.5	139.6	135.1	130.2	125.1	120.9	116.9
60°	188.8	195.1	201.9	208.1	201.9	195.1	188.8	181.1	172.1	161.4	151.0
57.5°	407.3	476.9	533.1	577.0	533.1	476.9	407.3	340.0	279.5	244.9	214.0
55°	777.2	948.4	1070.8	1154.1	1070.8	948.4	777.2	610.8	461.0	391.4	326.6
52.5°	1066.4	1285.9	1430.1	1513.5	1430.1	1285.9	1066.4	848.0	658.4	564.5	473.6
50°	1176.4	1391.0	1525.8	1589.2	1525.8	1391.0	1176.4	959.7	787.9	696.3	602.3
47.5°	1094.1	1239.3	1342.7	1409.5	1342.7	1239.3	1094.1	939.0	828.1	759.0	678.5
45°	954.6	1023.5	1067.1	1087.9	1067.1	1023.5	954.6	871.8	823.9	782.3	721.6
42.5°	969.8	1016.2	1041.1	1040.6	1041.1	1016.2	969.8	908.5	871.4	829.1	783.7
40°	1196.5	1278.9	1337.5	1352.7	1337.5	1278.9	1196.5	1106.2	1033.5	959.7	905.3
37.5°	1544.5	1624.8	1672.5	1674.4	1672.5	1624.8	1544.5	1431.8	1298.4	1165.6	1073.4
35°	1917.9	2015.4	2083.5	2071.7	2083.5	2015.4	1917.9	1780.5	1614.6	1449.9	1305.4
32.5°	2332.1	2447.4	2529.4	2544.7	2529.4	2447.4	2332.1	2181.4	1946.8	1739.8	1611.0
30°	3387.4	3570.1	3618.7	3604.1	3618.7	3570.1	3387.4	3180.0	2670.2	2491.8	2219.5
27.5°	7288.8	7621.1	7476.7	7539.4	7476.7	7621.1	7288.8	6579.1	4863.1	5037.3	3828.2
25°	13196.4	12649.1	11959.7	11446.2	11959.7	12649.1	13196.4	13354.4	12991.0	11614.1	9435.4
22.5°	24115.0	24918.8	25536.2	25588.4	25536.2	24918.8	24115.0	22443.1	21854.3	21177.4	19838.3
20°	41149.2	43924.6	45931.7	46920.0	45931.7	43924.6	41149.2	37225.0	34229.0	31327.2	29922.0
17.5°	62153.1	68594.3	72597.1	75176.0	72597.1	68594.3	62153.1	54901.7	48985.4	43790.5	39981.9
15°	88042.8	101141.2	108575.0	109656.5	108575.0	101141.2	88042.8	74546.4	64433.0	56390.3	50245.2
12.5°	121509.4	144270.4	161761.0	167157.2	161761.0	144270.4	121509.4	100475.3	79843.7	68222.8	59667.3
10°	170249.9	225586.4	302598.0	320200.5	302598.0	225586.4	170249.9	131985.7	101694.8	80188.7	66848.5
7.5°	278519.1	485060.2	703936.3	757317.9	703936.3	485060.2	278519.1	169877.9	123038.7	93286.4	74752.2
5°	465797.9	848944.0	#####	#####	#####	848944.0	465797.9	227714.2	147460.6	106848.7	81349.9
2.5°	638651.0	977229.1	#####	#####	#####	977229.1	638651.0	293225.6	166822.0	116147.8	86189.4
0°	642950.4	948843.2	#####	#####	#####	948843.2	642950.4	300363.6	173376.9	120970.3	89365.5
-2.5°	525701.5	794969.8	968837.5	#####	968837.5	794969.8	525701.5	279587.1	169389.1	119885.8	90282.3
-5°	354080.9	561182.1	714155.2	780489.3	714155.2	561182.1	354080.9	223232.2	153281.0	115148.0	90741.6
-7.5°	244577.7	338643.6	443510.6	472402.0	443510.6	338643.6	244577.7	178515.8	135272.8	107568.0	90177.4
-10°	180347.7	215951.0	252929.1	261219.4	252929.1	215951.0	180347.7	145491.9	120193.0	100105.2	88925.4
-12.5°	143269.7	162571.5	178827.1	181318.3	178827.1	162571.5	143269.7	125082.7	106692.9	97215.5	90962.7
-15°	122676.6	133501.7	140665.3	144808.7	140665.3	133501.7	122676.6	111295.4	103029.8	97127.4	93014.2
-17.5°	111946.7	116910.3	120361.8	122985.2	120361.8	116910.3	111946.7	105959.9	102119.5	98234.2	95643.3
-20°	107084.6	109645.0	112118.5	113922.9	112118.5	109645.0	107084.6	104261.6	101694.0	99223.5	96560.1



REPORT NUMBER: P699925 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-3L-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	103930.3	105693.7	107233.6	108947.1	107233.6	105693.7	103930.3	102264.8	100281.9	98475.7	95526.3
-25°	100187.0	101514.4	102675.9	103838.8	102675.9	101514.4	100187.0	98966.5	97470.6	95373.0	92733.1
-27.5°	95590.1	96522.9	97207.6	98030.6	97207.6	96522.9	95590.1	94609.5	93274.5	90678.7	87938.6
-30°	90265.6	91175.3	91614.1	92298.0	91614.1	91175.3	90265.6	88914.5	87009.2	81967.8	75116.6
-32.5°	81427.5	83628.4	85002.9	86253.3	85002.9	83628.4	81427.5	77973.2	73149.2	66373.2	58109.6
-35°	65102.2	67641.0	69189.1	70815.1	69189.1	67641.0	65102.2	60702.8	54317.9	46874.4	40371.2
-37.5°	44915.1	46793.9	47829.7	49010.6	47829.7	46793.9	44915.1	41438.5	36139.8	30126.3	26315.4
-40°	28103.8	29204.6	29715.1	29589.9	29715.1	29204.6	28103.8	26375.9	23586.2	20326.1	17563.1
-42.5°	18331.3	19090.8	19652.2	20234.2	19652.2	19090.8	18331.3	17153.2	15407.1	13448.6	11572.7
-45°	11532.2	12196.4	12591.6	12657.0	12591.6	12196.4	11532.2	10692.2	9673.6	8422.1	7005.5
-47.5°	6902.3	7223.8	7495.9	7728.6	7495.9	7223.8	6902.3	6453.4	5817.6	5019.7	4126.0
-50°	3858.4	4059.5	4224.8	4351.5	4224.8	4059.5	3858.4	3575.8	3188.8	2698.3	2158.9
-52.5°	1849.5	1959.2	2047.9	2109.5	2047.9	1959.2	1849.5	1705.1	1523.3	1291.9	1033.8
-55°	806.8	842.0	870.4	889.2	870.4	842.0	806.8	757.7	694.3	606.5	513.4
-57.5°	393.6	400.6	397.6	387.8	397.6	400.6	393.6	384.5	374.0	356.3	334.7
-60°	294.8	292.3	292.6	293.2	292.6	292.3	294.8	296.1	296.2	286.8	274.0
-62.5°	244.5	243.7	245.1	246.0	245.1	243.7	244.5	243.0	239.3	227.7	211.9
-65°	168.8	168.8	169.8	170.3	169.8	168.8	168.8	167.4	164.5	158.2	149.8
-67.5°	119.9	121.6	122.7	123.0	122.7	121.6	119.9	117.5	114.5	110.8	106.4
-70°	83.8	84.5	89.4	94.6	89.4	84.5	83.8	82.7	81.4	79.7	77.8
-72.5°	65.0	65.7	66.1	66.2	66.1	65.7	65.0	64.1	63.0	61.6	59.9
-75°	46.8	47.1	47.2	47.3	47.2	47.1	46.8	46.4	45.9	45.3	44.6
-77.5°	37.0	37.4	37.7	37.8	37.7	37.4	37.0	36.3	35.5	34.5	33.4
-80°	18.6	18.8	23.5	28.4	23.5	18.8	18.6	18.3	18.0	17.6	17.6
-82.5°	9.3	9.4	9.5	9.5	9.5	9.4	9.3	9.3	9.3	9.6	11.6
-85°	2.4	0.0	0.0	0.0	0.0	0.0	2.4	4.8	7.2	9.5	9.5
-87.5°	2.4	0.0	0.0	0.0	0.0	0.0	2.4	4.7	7.0	9.2	9.1
-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: P699925 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-3L-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°	8.9	8.8	8.6	10.5	12.3	14.0	15.5	15.0	14.5	13.9	13.4
85°	13.7	15.5	17.1	17.3	17.7	18.2	18.9	18.9	18.9	18.9	18.9
82.5°	18.1	18.4	18.9	18.9	18.9	18.9	19.0	19.9	20.4	20.4	20.0
80°	26.1	25.5	24.8	24.1	23.3	22.4	21.8	22.8	24.3	26.0	26.7
77.5°	34.9	34.2	33.1	31.2	29.7	28.8	28.5	28.1	27.7	27.8	28.4
75°	43.8	42.9	41.4	38.6	35.0	30.7	29.2	30.8	31.6	31.6	30.5
72.5°	52.7	51.6	50.4	49.1	47.7	45.1	41.2	38.1	36.6	37.0	37.0
70°	63.3	60.7	58.9	57.4	55.8	54.0	51.3	47.3	42.1	38.3	37.8
67.5°	76.2	72.1	68.4	65.6	63.8	61.8	59.7	57.5	53.8	48.4	42.5
65°	91.9	88.8	85.3	81.4	77.3	72.9	68.1	64.7	62.0	59.0	53.4
62.5°	112.2	106.9	102.1	97.9	93.2	88.3	83.0	77.5	71.6	65.8	61.4
60°	141.2	132.1	123.7	116.1	109.4	103.7	97.9	91.7	85.3	77.5	70.4
57.5°	185.5	165.6	153.5	140.7	127.1	120.3	114.5	106.5	98.8	90.0	79.6
55°	268.8	235.3	208.5	181.4	157.7	147.3	136.1	126.1	116.4	104.3	93.7
52.5°	387.7	338.5	293.2	248.3	216.8	191.4	165.6	152.4	138.8	125.6	111.0
50°	508.1	452.5	396.7	342.1	297.6	255.3	221.5	190.4	169.1	152.2	133.0
47.5°	603.8	555.5	500.3	439.5	390.7	338.6	291.0	245.5	214.5	185.4	163.0
45°	679.2	642.2	595.1	540.4	489.8	433.5	370.9	316.5	267.1	230.2	197.9
42.5°	754.1	719.2	676.8	633.5	585.4	527.5	465.0	395.7	331.8	278.7	240.1
40°	855.5	797.6	756.5	715.3	667.5	615.4	554.5	483.3	406.5	336.3	287.1
37.5°	992.3	923.3	852.3	789.5	742.0	693.3	639.7	570.3	487.1	411.0	345.9
35°	1152.9	1048.7	964.8	880.9	813.4	766.2	715.4	652.6	575.3	497.5	412.1
32.5°	1397.3	1305.1	1103.2	995.3	909.5	842.4	783.2	724.5	668.3	586.7	495.4
30°	2000.0	1957.0	1575.7	1297.8	1169.7	952.2	853.1	814.4	754.4	675.2	579.3
27.5°	4101.9	3464.6	2915.4	2727.3	1813.1	1311.3	1042.8	924.0	849.1	760.6	663.1
25°	8954.3	7382.9	6681.8	5869.3	4104.5	2153.7	1552.3	1172.2	967.6	856.5	777.3
22.5°	16853.4	14829.9	12952.0	10652.5	8161.5	5337.3	2721.7	1533.8	1146.1	1055.2	922.9
20°	27707.2	23996.0	20848.9	17562.2	13991.7	9684.2	4901.1	2651.8	1723.6	1327.6	1100.2
17.5°	37463.1	34354.2	29463.9	25134.0	20657.4	15379.6	9511.2	4561.2	2454.4	1654.4	1304.2
15°	46341.2	43318.9	38573.9	33062.7	27667.1	21799.2	14868.7	6873.6	3573.5	2183.5	1616.3
12.5°	53963.7	50534.3	47309.0	40525.0	34542.2	28208.3	20530.4	11391.1	5483.3	3117.9	2142.8
10°	60081.3	56180.1	52898.5	47387.5	41006.5	34238.1	26117.7	15928.8	7595.4	4222.7	2746.0
7.5°	65078.7	60146.1	57239.8	53166.4	47007.8	40242.6	31615.1	20288.5	9592.9	5359.4	3396.7
5°	68886.5	63241.3	60464.2	57629.6	52333.5	45920.7	36889.4	24310.7	11429.7	6485.2	4063.1
2.5°	72060.0	65770.3	63118.0	61230.9	56969.9	51103.8	41471.3	27540.8	13169.2	7558.0	4784.8
0°	74561.2	68185.3	65631.2	64287.9	60939.2	55641.8	44999.7	29788.5	14709.8	8523.2	5448.8
-2.5°	76712.8	70722.0	68555.5	67349.2	64453.6	59264.9	47565.6	31494.7	16440.7	9587.2	5965.9
-5°	78896.9	73857.0	71955.2	70529.2	67491.6	61492.6	48690.0	31989.8	17547.4	10367.9	6360.7
-7.5°	81310.3	77252.7	75369.8	73606.6	70120.6	62530.6	48291.1	31225.1	17748.9	10580.8	6444.3
-10°	83653.7	80914.5	78973.9	76438.7	72198.8	62458.2	46444.7	29609.6	17412.7	10479.5	6363.3
-12.5°	87054.4	84481.6	82142.2	78863.2	73724.1	60850.6	43090.4	27019.1	16491.8	10024.0	6101.0
-15°	90510.5	87693.2	84215.3	79875.2	71896.9	57001.6	38638.4	22804.5	14536.7	9090.1	5642.0
-17.5°	92674.0	89590.7	85435.3	79968.0	67635.8	50799.8	33238.4	20052.1	12755.4	7896.5	4871.8
-20°	93655.4	89609.6	84481.3	75422.9	61129.2	43093.7	26269.1	16955.1	10932.3	6842.4	4238.6



REPORT NUMBER: P699925 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-3L-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	92394.8	87384.0	79984.1	68738.1	51369.4	34639.9	21545.3	13949.1	8778.1	5575.0	3501.1
-25°	88486.8	81818.9	71484.2	56574.3	40715.0	25686.2	17308.4	11375.7	7220.1	4442.6	2713.8
-27.5°	80124.6	71128.5	58470.9	44098.6	29630.8	20405.6	13533.5	8625.9	5488.1	3468.4	2166.5
-30°	66365.7	55369.7	43908.9	31539.3	22606.2	15267.0	9876.0	6562.3	4138.2	2508.0	1589.3
-32.5°	49126.6	39589.5	29646.2	23087.4	16273.7	10739.2	7278.5	4603.2	2841.1	1852.3	1187.1
-35°	32623.9	26548.7	20951.5	15824.5	10635.4	7542.7	4964.6	3175.9	1983.7	1249.0	846.1
-37.5°	22198.7	18054.2	14244.3	10190.2	7379.7	5022.7	3356.3	2147.5	1264.5	890.1	636.4
-40°	14935.5	11858.7	9413.8	6818.2	4890.3	3239.2	2190.5	1323.0	912.1	620.7	486.6
-42.5°	9687.2	7678.7	5973.0	4408.9	3012.9	2071.7	1302.0	894.8	611.9	469.3	405.5
-45°	5910.4	4717.7	3506.8	2638.5	1762.6	1213.5	792.7	572.4	434.0	384.1	349.0
-47.5°	3397.3	2678.2	1941.1	1431.4	1003.6	661.2	506.7	374.3	357.5	332.8	308.3
-50°	1711.5	1365.7	1007.4	699.9	557.1	416.9	352.7	327.4	313.0	295.7	260.3
-52.5°	780.2	658.0	533.5	407.8	354.9	326.9	304.1	293.4	280.9	240.5	189.6
-55°	416.8	373.7	343.6	314.2	290.3	282.5	273.8	251.8	209.8	164.6	143.6
-57.5°	309.7	288.8	278.3	268.0	258.4	237.5	206.8	170.8	147.7	130.1	111.6
-60°	260.1	246.8	231.0	210.8	186.3	159.7	145.3	130.0	113.9	103.6	93.1
-62.5°	195.2	177.9	162.8	149.6	135.6	121.4	110.4	102.0	93.2	84.3	76.8
-65°	141.1	132.2	121.3	111.9	103.2	95.1	88.0	82.0	76.7	70.9	62.8
-67.5°	101.4	95.8	89.4	83.9	80.2	76.3	72.0	67.5	62.8	57.8	52.0
-70°	75.6	73.2	70.4	67.4	64.2	60.6	56.9	52.9	48.7	44.4	40.4
-72.5°	58.0	55.8	53.5	50.9	48.0	46.1	44.1	41.0	36.9	31.7	29.6
-75°	43.8	42.9	41.9	40.7	39.5	38.2	36.0	32.9	30.6	29.0	28.6
-77.5°	32.0	30.5	29.1	28.6	28.6	28.9	29.1	28.0	26.7	25.3	24.2
-80°	17.8	18.3	19.1	20.4	21.2	21.7	21.5	20.5	19.4	18.9	19.2
-82.5°	13.5	15.1	16.3	16.6	17.1	17.9	18.9	18.9	18.9	18.9	18.9
-85°	9.5	9.5	9.6	11.4	13.0	14.4	15.5	16.0	16.7	17.7	18.9
-87.5°	8.9	8.8	8.6	8.4	8.2	8.0	7.8	9.4	10.9	12.2	13.4
-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: P699925 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-3L-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°	12.8	12.1	11.5	10.8	10.2	9.4	8.7	8.0	7.2	6.5	5.7
85°	18.9	18.9	18.9	18.9	19.1	18.9	17.4	16.0	14.4	12.9	11.4
82.5°	19.1	18.9	18.9	19.1	20.5	21.4	21.7	21.4	20.3	19.1	17.0
80°	25.5	24.3	23.0	21.9	22.6	24.0	25.2	25.4	23.9	22.3	20.8
77.5°	28.4	28.4	28.4	27.1	26.3	26.2	27.1	28.4	27.5	25.5	23.6
75°	28.7	28.4	28.4	28.8	29.0	28.3	28.0	28.4	28.4	28.4	26.4
72.5°	34.9	32.7	30.5	29.6	30.9	31.1	30.0	28.4	28.4	28.4	28.4
70°	37.8	37.8	36.0	34.1	33.6	34.2	33.7	31.4	28.5	28.4	28.4
67.5°	37.8	37.8	37.8	37.9	36.5	36.1	37.2	35.2	31.9	28.5	28.4
65°	46.7	41.4	38.0	39.3	39.0	37.5	37.7	37.8	35.2	31.4	28.4
62.5°	55.3	47.8	43.2	41.7	41.7	40.3	37.8	37.8	37.8	34.4	30.2
60°	64.6	57.2	49.0	45.3	44.5	44.1	41.0	37.8	37.8	37.2	32.7
57.5°	72.4	67.0	59.3	50.7	46.4	46.6	44.9	40.2	37.8	37.8	35.2
55°	80.7	72.4	67.9	60.2	50.7	47.2	47.6	43.6	38.5	37.8	37.5
52.5°	96.2	82.1	72.9	67.9	59.3	49.3	48.6	47.0	41.5	37.8	37.8
50°	115.2	99.0	82.7	72.4	67.0	57.3	50.1	48.8	44.4	38.6	37.8
47.5°	138.4	119.2	99.7	80.0	71.1	64.4	55.2	50.9	47.2	41.1	37.8
45°	170.1	142.3	119.0	96.6	75.7	69.6	60.8	53.4	49.6	43.5	37.8
42.5°	204.9	171.7	141.3	113.5	90.5	74.7	65.7	57.5	52.2	45.8	39.0
40°	246.3	204.9	166.2	135.4	107.4	80.4	70.7	61.3	55.1	48.0	40.9
37.5°	289.8	242.7	197.2	157.7	125.4	96.0	76.0	64.5	57.5	50.1	42.7
35°	344.0	284.5	230.5	184.8	145.9	111.6	81.7	68.1	59.7	52.1	44.5
32.5°	398.4	330.4	270.5	215.9	166.4	127.1	92.3	73.2	61.8	54.0	46.1
30°	472.4	384.6	310.6	247.3	189.0	145.0	105.8	78.4	63.8	55.8	47.7
27.5°	559.7	441.0	352.4	281.9	217.0	162.7	118.3	83.6	65.6	57.4	49.1
25°	652.4	515.1	403.6	316.5	244.8	179.7	129.9	89.2	69.0	58.9	50.4
22.5°	761.5	595.8	455.4	350.0	269.9	196.8	142.4	98.9	73.1	60.3	51.6
20°	882.7	676.8	509.4	387.6	295.9	217.9	156.0	107.7	77.2	61.5	52.7
17.5°	1018.5	786.2	590.7	437.1	323.8	237.2	169.0	115.8	81.0	62.6	53.6
15°	1261.1	943.4	682.1	488.0	351.7	254.6	181.4	123.0	84.7	63.5	54.5
12.5°	1556.7	1115.9	777.9	539.2	378.8	270.1	193.0	129.2	88.1	65.1	55.2
10°	1878.6	1297.7	875.3	589.4	404.7	283.6	203.5	134.8	90.8	67.3	55.8
7.5°	2213.9	1482.1	971.2	637.2	429.4	293.1	210.1	140.2	92.6	69.6	56.2
5°	2568.5	1697.0	1104.1	707.0	456.3	298.4	214.4	144.8	93.8	71.8	56.5
2.5°	2992.8	1955.5	1257.6	777.7	480.8	301.6	216.8	148.6	94.4	73.8	56.7
0°	3386.6	2194.6	1400.0	841.9	501.4	302.7	217.6	151.4	94.6	75.7	56.8
-2.5°	3672.0	2345.3	1473.7	889.6	543.7	336.9	231.5	157.4	96.4	75.5	56.7
-5°	3892.8	2458.0	1525.8	926.5	579.9	367.4	243.4	161.9	97.7	75.1	56.5
-7.5°	3947.6	2475.4	1532.3	945.9	609.3	392.6	252.7	164.7	98.5	74.4	56.2
-10°	3892.3	2412.0	1478.7	912.0	595.0	397.7	257.9	165.6	98.6	73.3	55.8
-12.5°	3736.4	2295.6	1398.7	866.0	569.4	385.7	252.9	161.1	97.7	72.0	55.2
-15°	3470.5	2122.2	1291.2	807.6	539.8	370.7	244.6	153.4	94.9	70.3	54.5
-17.5°	3060.7	1888.5	1155.1	736.6	506.9	353.0	232.7	143.9	91.7	68.4	53.6
-20°	2629.3	1625.2	1004.2	652.8	471.1	332.8	217.1	132.7	87.9	66.2	52.7



REPORT NUMBER: P699925 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-3L-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2192.8	1371.6	876.3	597.8	437.6	310.3	197.6	119.6	83.7	63.8	51.6
-25°	1718.7	1102.7	742.5	536.9	408.2	287.3	178.1	104.8	79.0	61.0	50.4
-27.5°	1356.5	856.9	611.4	476.1	367.2	259.3	160.3	98.6	74.5	58.0	49.1
-30°	1036.2	712.0	530.1	419.3	325.5	223.3	140.4	92.4	70.8	55.8	47.7
-32.5°	760.5	574.4	463.7	372.3	283.7	187.2	118.4	85.7	66.9	54.0	46.1
-35°	621.4	485.5	400.6	325.7	241.7	161.2	101.0	78.6	62.6	52.1	44.5
-37.5°	486.4	420.0	350.5	279.7	199.8	133.7	92.6	72.6	58.1	50.1	42.7
-40°	421.0	363.2	303.8	234.4	165.5	104.8	83.8	67.3	55.1	48.0	40.9
-42.5°	361.4	316.3	255.6	189.3	132.6	94.2	75.0	61.8	52.6	45.8	39.0
-45°	316.4	267.5	203.9	151.8	102.2	83.7	68.6	56.4	50.0	43.5	37.2
-47.5°	269.2	209.1	160.0	115.7	90.4	73.8	61.9	53.3	47.2	41.1	35.4
-50°	203.8	159.5	124.2	97.3	79.0	66.2	55.9	50.2	44.4	38.6	33.4
-52.5°	153.4	125.2	101.6	84.5	69.9	58.5	52.3	47.0	41.5	36.0	31.2
-55°	120.1	103.2	87.4	72.8	60.6	53.6	48.7	43.6	38.5	33.3	28.9
-57.5°	99.7	87.4	73.6	61.1	54.1	49.5	44.9	40.2	35.4	30.6	28.5
-60°	82.5	71.4	59.2	53.6	49.5	45.3	41.0	36.7	32.3	28.4	28.4
-62.5°	67.3	57.3	52.3	48.7	44.9	41.0	37.1	33.1	29.1	28.4	28.4
-65°	56.2	50.8	47.0	43.6	40.2	36.7	33.1	29.5	28.4	28.4	28.3
-67.5°	47.2	43.6	41.3	38.5	35.4	32.3	29.1	28.4	28.4	28.4	28.0
-70°	37.5	35.7	35.4	33.3	30.6	28.4	28.4	28.4	28.4	27.2	27.5
-72.5°	30.9	31.1	30.2	28.4	28.4	28.4	28.4	27.7	26.2	25.9	26.9
-75°	28.5	27.8	27.9	28.4	28.4	28.2	26.0	24.1	23.7	24.4	24.9
-77.5°	24.3	25.1	26.7	27.0	25.3	23.5	21.7	20.3	21.5	22.5	22.6
-80°	20.8	21.8	22.1	21.6	20.2	18.9	18.9	19.1	20.3	20.7	20.4
-82.5°	19.0	18.9	18.9	18.9	18.9	18.9	18.9	18.9	19.3	19.0	17.0
-85°	18.9	18.9	18.9	18.9	18.9	18.9	17.4	16.0	14.4	12.9	11.4
-87.5°	12.8	12.1	11.5	10.8	10.2	9.4	8.7	8.0	7.2	6.5	5.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699925 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-3L-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°	4.9	4.1	3.3	2.5	1.6	0.8	0.0
85°	9.8	8.2	6.6	4.9	3.3	1.6	0.0
82.5°	14.6	12.2	9.8	7.4	4.9	2.5	0.0
80°	19.2	16.3	13.1	9.8	6.6	3.3	0.0
77.5°	21.6	19.6	16.3	12.2	8.2	4.1	0.0
75°	24.0	21.6	19.2	14.6	9.8	4.9	0.0
72.5°	26.4	23.6	20.8	17.0	11.4	5.7	0.0
70°	28.4	25.5	22.3	19.1	12.9	6.5	0.0
67.5°	28.4	27.5	23.9	20.3	14.4	7.2	0.0
65°	28.4	28.4	25.4	21.4	16.0	8.0	0.0
62.5°	28.4	28.4	26.9	22.5	17.4	8.7	0.0
60°	28.4	28.4	28.3	23.6	18.9	9.4	0.0
57.5°	30.3	28.4	28.4	24.7	19.6	10.2	0.0
55°	32.3	28.4	28.4	25.7	20.3	10.8	0.0
52.5°	34.3	28.7	28.4	26.7	21.0	11.5	0.0
50°	36.2	30.3	28.4	27.7	21.6	12.1	0.0
47.5°	37.8	31.8	28.4	28.4	22.2	12.8	0.0
45°	37.8	33.3	28.4	28.4	22.8	13.4	0.0
42.5°	37.8	34.7	28.4	28.4	23.4	13.9	0.0
40°	37.8	36.1	28.9	28.4	23.9	14.5	0.0
37.5°	37.8	37.4	30.0	28.4	24.5	15.0	0.0
35°	37.8	37.8	30.9	28.4	25.0	15.5	0.0
32.5°	38.2	37.8	31.9	28.4	25.4	15.9	0.0
30°	39.5	37.8	32.7	28.4	25.8	16.4	0.0
27.5°	40.7	37.8	33.5	28.4	26.2	16.8	0.0
25°	41.9	37.8	34.2	28.4	26.6	17.1	0.0
22.5°	42.9	37.8	34.9	28.4	27.0	17.5	0.0
20°	43.8	37.8	35.5	28.4	27.3	17.8	0.0
17.5°	44.6	37.8	36.0	28.4	27.5	18.0	0.0
15°	45.3	37.8	36.5	28.4	27.8	18.3	0.0
12.5°	45.9	37.8	36.9	28.4	27.9	18.5	0.0
10°	46.4	37.8	37.2	28.4	28.1	18.6	0.0
7.5°	46.8	37.8	37.5	28.4	28.2	18.7	0.0
5°	47.1	37.8	37.7	28.4	28.3	18.8	0.0
2.5°	47.2	37.8	37.8	28.4	28.4	18.9	0.0
0°	47.3	37.8	37.8	28.4	28.4	18.9	0.0
-2.5°	47.2	37.8	37.8	28.4	28.4	18.9	0.0
-5°	47.1	37.8	37.7	28.4	28.3	18.8	0.0
-7.5°	46.8	37.8	37.5	28.4	28.2	18.7	0.0
-10°	46.4	37.8	37.2	28.4	28.1	18.6	0.0
-12.5°	45.9	37.8	36.9	28.4	27.9	18.5	0.0
-15°	45.3	37.8	36.5	28.4	27.8	18.3	0.0
-17.5°	44.6	37.8	36.0	28.4	27.5	18.0	0.0
-20°	43.8	37.8	35.5	28.4	27.3	17.8	0.0



REPORT NUMBER: P699925 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-3L-S

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	42.9	37.8	34.9	28.4	27.0	17.5	0.0
-25°	41.9	37.6	34.2	28.4	26.6	17.1	0.0
-27.5°	40.7	37.3	33.5	28.4	26.2	16.8	0.0
-30°	39.5	37.0	32.7	28.4	25.8	16.4	0.0
-32.5°	38.2	36.5	31.7	28.4	25.4	15.9	0.0
-35°	37.4	35.9	30.8	28.4	25.0	15.5	0.0
-37.5°	36.8	35.0	29.8	28.4	24.5	15.0	0.0
-40°	35.9	33.7	28.9	28.4	23.9	14.5	0.0
-42.5°	34.8	32.5	28.4	28.4	23.4	13.9	0.0
-45°	33.6	31.4	28.4	28.4	22.8	13.4	0.0
-47.5°	32.2	30.4	28.4	28.4	22.2	12.8	0.0
-50°	31.1	29.4	28.4	27.7	21.6	12.1	0.0
-52.5°	30.2	28.5	28.4	26.7	21.0	11.5	0.0
-55°	29.4	28.4	28.4	25.7	20.3	10.8	0.0
-57.5°	28.8	28.4	28.4	24.7	19.6	10.2	0.0
-60°	28.4	28.4	28.3	23.6	18.9	9.4	0.0
-62.5°	28.4	28.4	26.9	22.5	17.4	8.7	0.0
-65°	28.4	28.4	25.4	21.4	16.0	8.0	0.0
-67.5°	28.4	27.5	23.9	20.3	14.4	7.2	0.0
-70°	28.4	25.5	22.3	19.1	12.9	6.5	0.0
-72.5°	26.4	23.6	20.8	17.0	11.4	5.7	0.0
-75°	24.0	21.6	19.2	14.6	9.8	4.9	0.0
-77.5°	21.6	19.6	16.3	12.2	8.2	4.1	0.0
-80°	19.2	16.3	13.1	9.8	6.6	3.3	0.0
-82.5°	14.6	12.2	9.8	7.4	4.9	2.5	0.0
-85°	9.8	8.2	6.6	4.9	3.3	1.6	0.0
-87.5°	4.9	4.1	3.3	2.5	1.6	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)