

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: P699868 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-40-80-1L-S**

Issue Date: 8/10/2023

Test Information

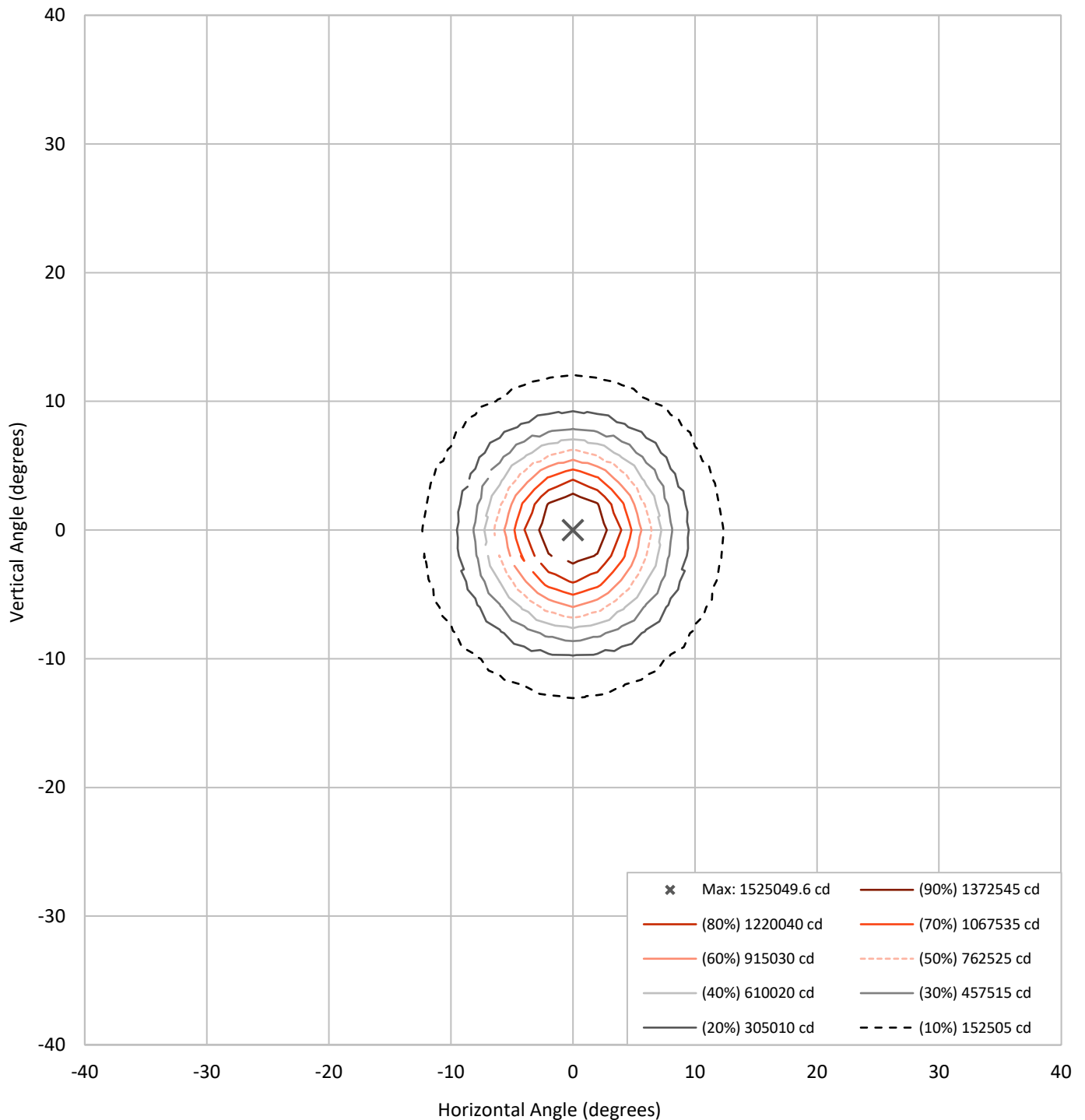
Test Method: LM-79-08
Report Number: P699868 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-52)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-40-80-1L-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 80 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:	158373.5 lumens	Max Intensity:	1525049.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	126.1 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:	39256.8 lumens	Field Lumens:	78860.4 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





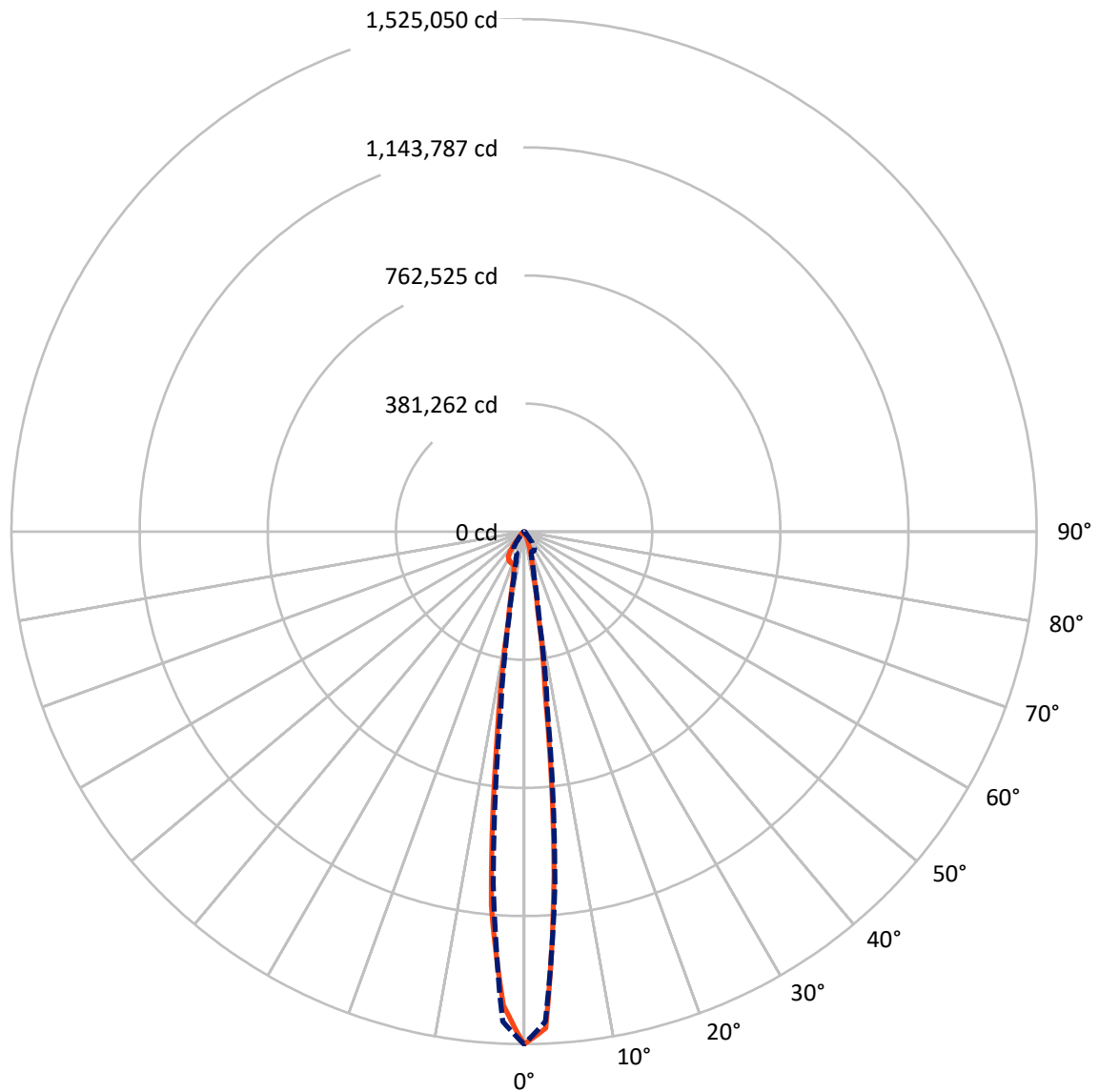
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Lumen Table

90	0.4	1.6		2.6		3.4		3.6		3.4		2.6		1.6		0.4	
80	0.4	1.6		2.6		3.4		3.6		3.4		2.6		1.6		0.4	
70	0.7	0.5	0.8	1.2	1.8	2.4	3.0	3.3	3.3	3.0	2.4	1.8	1.2	0.8	0.5	0.7	
60		0.6	1.1	2.3	4.0	6.1	9.8	15.3	15.3	9.8	6.1	4.0	2.3	1.1	0.6		
50	0.9	0.8	2.2	5.8	10.2	18.7	28.4	40.6	40.6	28.4	18.7	10.2	5.8	2.2	0.8	0.9	
40		1.0	4.9	12.6	25.7	36.4	55.4	65.0	65.0	55.4	36.4	25.7	12.6	4.9	1.0		
30	1.0	1.5	7.3	28.0	99.3	272.3	455.9	536.9	536.9	455.9	272.3	99.3	28.0	7.3	1.5	1.0	
20		2.1	10.9	64.3	430.3	1059.5	1548.8	2639.3	2639.3	1548.8	1059.5	430.3	64.3	10.9	2.1		
10	1.1	2.4	14.5	123.6	891.0	1613.3	2803.8	17953.9	17953.9	2803.8	1613.3	891.0	123.6	14.5	2.4	1.1	
0		2.5	15.3	153.0	1134.4	1911.1	3059.1	19042.7	19042.7	3059.1	1911.1	1134.4	153.0	15.3	2.5		
-10	1.0	2.3	12.2	120.4	979.7	2183.6	2596.4	3657.9	3657.9	2596.4	2183.6	979.7	120.4	12.2	2.3	1.0	
-20		1.8	8.2	63.1	496.5	1828.7	2665.1	2938.0	2938.0	2665.1	1828.7	496.5	63.1	8.2	1.8		
-30	0.9	1.2	5.9	23.5	161.5	660.7	1463.6	1978.8	1978.8	1463.6	660.7	161.5	23.5	5.9	1.2	0.9	
-40		0.9	3.1	8.3	33.2	134.8	311.0	446.6	446.6	311.0	134.8	33.2	8.3	3.1	0.9		
-50	0.7	0.7	1.5	3.5	6.7	15.7	36.1	53.6	53.6	36.1	15.7	6.7	3.5	1.5	0.7	0.7	
-60		0.5	0.9	1.5	2.5	3.7	4.7	5.2	5.2	4.7	3.7	2.5	1.5	0.9	0.5		
-70	0.4	0.4	1.6		2.5		3.4		3.8		3.4		2.5		1.6		0.4
-80		0.4	1.6		2.5		3.4		3.8		3.4		2.5		1.6		
-90	0.4	1.6		2.5		3.4		3.8		3.4		2.5		1.6		0.4	

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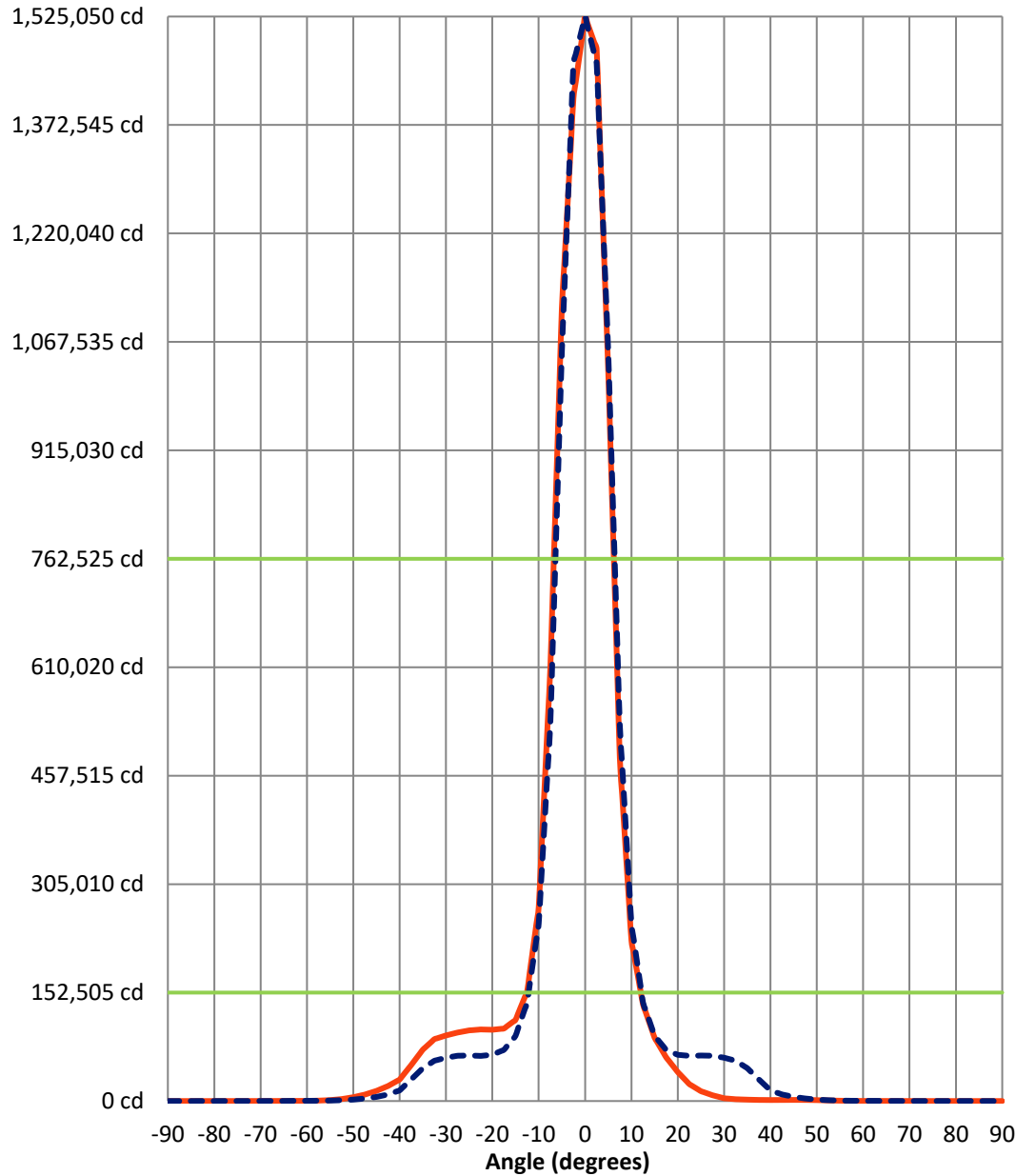
Luminous Intensity Polar Plot



— 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: 39256.8
 Efficiency: 24.8%

Field:
 H Angle: 24.4°
 V Angle: 24.6°
 Lumens: 78860.4
 Efficiency: 49.8%

Spill:
 Lumens: 79513.2
 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	1.2	2.4	3.7	4.9	6.1	7.3	8.4	9.6	10.8	11.4
85°	0.0	2.4	4.9	7.3	9.7	12.1	14.5	16.9	19.2	21.5	22.9
82.5°	0.0	3.7	7.3	11.0	14.6	18.2	21.8	25.3	28.1	28.1	27.4
80°	0.0	4.9	9.7	14.6	19.4	24.2	28.1	28.1	28.1	28.1	27.8
77.5°	0.0	6.1	12.1	18.2	24.2	28.1	28.1	28.1	28.1	28.1	29.0
75°	0.0	7.3	14.5	21.8	28.1	28.1	28.1	28.1	28.4	30.7	32.5
72.5°	0.0	8.4	16.9	25.3	28.1	28.1	28.1	28.8	31.5	34.1	36.2
70°	0.0	9.6	19.2	28.1	28.1	28.1	28.4	31.5	34.6	37.5	37.2
67.5°	0.0	10.8	21.5	28.1	28.1	28.1	30.7	34.1	37.5	37.7	37.4
65°	0.0	11.9	23.7	28.1	28.1	29.0	32.9	36.8	38.1	38.1	38.6
62.5°	0.0	13.0	25.9	28.1	28.1	30.9	35.1	38.0	38.7	39.1	42.2
60°	0.0	14.0	28.1	28.1	28.1	32.7	37.3	38.9	39.4	42.0	45.7
57.5°	0.0	15.1	28.1	28.1	29.4	34.4	38.3	39.8	41.4	44.8	46.9
55°	0.0	16.1	28.1	28.1	30.8	36.1	39.2	40.7	43.5	46.9	47.2
52.5°	0.0	17.1	28.1	28.1	32.1	37.6	40.2	42.3	45.5	47.5	47.7
50°	0.0	18.1	28.1	28.1	33.4	38.6	41.2	43.8	47.0	48.2	50.5
47.5°	0.0	19.0	28.1	28.3	34.6	39.5	42.3	45.1	47.9	49.1	53.3
45°	0.0	19.9	28.1	29.2	35.8	40.4	43.3	46.3	48.8	51.3	55.9
42.5°	0.0	20.7	28.1	30.1	37.0	41.4	44.3	47.3	49.9	53.3	59.2
40°	0.0	21.5	28.1	30.9	37.9	42.4	45.1	48.3	51.1	55.1	62.8
37.5°	0.0	22.3	28.1	31.6	38.6	43.3	45.8	49.3	52.5	57.1	66.4
35°	0.0	23.0	28.1	32.4	39.4	44.1	46.4	50.4	53.8	60.3	71.0
32.5°	0.0	23.7	28.1	33.1	40.1	44.6	47.1	51.5	54.8	63.4	77.0
30°	0.0	24.3	28.1	33.7	40.8	45.0	47.9	52.6	55.7	66.5	82.8
27.5°	0.0	24.9	28.1	34.3	41.5	45.4	48.8	53.4	57.2	69.6	88.5
25°	0.0	25.5	28.1	34.8	42.2	45.7	49.7	54.1	59.6	73.7	94.1
22.5°	0.0	26.0	28.1	35.3	42.8	46.0	50.5	54.6	61.9	78.1	101.1
20°	0.0	26.4	28.1	35.8	43.5	46.3	51.3	55.1	64.1	82.3	107.6
17.5°	0.0	26.8	28.1	36.2	44.0	46.4	52.2	55.4	66.2	86.2	113.7
15°	0.0	27.1	28.1	36.5	44.6	46.6	52.9	55.7	68.1	89.7	119.4
12.5°	0.0	27.4	28.1	36.8	45.1	46.7	53.6	55.9	69.8	93.0	124.5
10°	0.0	27.7	28.1	37.1	45.5	46.7	54.3	56.1	71.3	95.9	129.0
7.5°	0.0	27.9	28.1	37.3	46.0	46.8	54.9	56.1	72.6	98.3	132.9
5°	0.0	28.0	28.1	37.4	46.3	46.8	55.4	56.2	73.7	100.4	136.1
2.5°	0.0	28.1	28.1	37.5	46.6	46.8	55.9	56.2	74.5	102.0	138.7
0°	0.0	28.1	28.1	37.5	46.8	46.8	56.2	56.2	75.0	103.1	140.5
-2.5°	0.0	28.1	28.1	37.5	46.6	46.8	56.1	56.5	75.2	103.3	141.1
-5°	0.0	28.0	28.1	37.4	46.3	46.8	56.0	56.8	75.2	102.9	140.9
-7.5°	0.0	27.9	28.1	37.3	46.0	46.8	55.7	57.1	74.8	102.1	139.9
-10°	0.0	27.7	28.1	37.1	45.5	46.7	55.3	57.4	74.1	100.8	138.0
-12.5°	0.0	27.4	28.1	36.8	45.1	46.7	54.8	57.6	73.2	98.9	135.3
-15°	0.0	27.1	28.1	36.5	44.6	46.6	54.2	57.7	71.9	96.6	131.6
-17.5°	0.0	26.8	28.1	36.2	44.0	46.4	53.5	57.7	70.4	93.7	127.1
-20°	0.0	26.4	28.1	35.8	43.5	46.3	52.7	57.7	68.5	90.4	121.7



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 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1L-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	26.0	28.1	35.3	42.8	46.0	51.8	57.5	66.4	86.6	115.3
-25°	0.0	25.5	28.1	34.8	42.2	45.7	50.8	57.2	64.0	82.4	108.1
-27.5°	0.0	24.9	28.1	34.3	41.5	45.4	49.7	56.9	61.4	78.3	102.7
-30°	0.0	24.3	28.1	33.7	40.8	45.0	48.5	56.3	60.0	75.0	96.9
-32.5°	0.0	23.7	28.1	33.1	40.1	44.6	47.2	55.0	59.5	71.4	90.7
-35°	0.0	23.0	28.1	32.4	39.4	44.1	46.4	53.4	58.7	67.5	84.0
-37.5°	0.0	22.3	28.1	31.6	38.6	43.3	45.8	51.7	57.8	63.4	78.5
-40°	0.0	21.5	28.1	30.9	37.9	42.4	45.1	49.9	56.6	61.3	73.6
-42.5°	0.0	20.7	28.1	30.1	37.0	41.4	44.3	48.0	54.7	59.8	68.4
-45°	0.0	19.9	28.1	29.2	35.8	40.4	43.3	46.3	52.4	58.1	63.5
-47.5°	0.0	19.0	28.1	28.3	34.6	39.5	42.3	45.1	50.0	56.1	61.2
-50°	0.0	18.1	28.1	28.1	33.4	38.6	41.2	43.8	47.6	53.3	58.7
-52.5°	0.0	17.1	28.1	28.1	32.1	37.6	40.2	42.3	45.5	50.5	55.9
-55°	0.0	16.1	28.1	28.1	30.8	36.1	39.2	40.7	43.5	47.5	52.5
-57.5°	0.0	15.1	28.1	28.1	29.4	34.4	38.3	39.8	41.4	44.8	49.1
-60°	0.0	14.0	28.1	28.1	28.1	32.7	37.3	38.9	39.4	42.0	45.7
-62.5°	0.0	13.0	25.9	28.1	28.1	30.9	35.1	38.0	38.7	39.1	42.2
-65°	0.0	11.9	23.7	28.1	28.1	29.0	32.9	36.8	38.1	38.1	38.6
-67.5°	0.0	10.8	21.5	28.1	28.1	28.1	30.7	34.1	37.5	37.7	37.4
-70°	0.0	9.6	19.2	28.1	28.1	28.1	28.4	31.5	34.6	37.5	37.2
-72.5°	0.0	8.4	16.9	25.3	28.1	28.1	28.1	28.8	31.5	34.1	36.1
-75°	0.0	7.3	14.5	21.8	28.1	28.1	28.1	28.1	28.4	30.7	32.2
-77.5°	0.0	6.1	12.1	18.2	24.2	28.1	28.1	28.1	28.1	28.1	28.2
-80°	0.0	4.9	9.7	14.6	19.4	24.2	28.1	28.1	28.1	28.1	27.2
-82.5°	0.0	3.7	7.3	11.0	14.6	18.2	21.8	25.3	28.1	28.1	27.1
-85°	0.0	2.4	4.9	7.3	9.7	12.1	14.5	16.9	19.2	21.5	22.9
-87.5°	0.0	1.2	2.4	3.7	4.9	6.1	7.3	8.4	9.6	10.8	11.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1L-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	12.5	12.9	13.1	13.3	13.4	13.3	13.2	13.8	14.3	14.8
85°	24.0	25.0	24.3	23.7	23.2	22.9	22.7	22.6	22.7	22.6	22.4
82.5°	26.9	26.6	26.5	26.7	27.0	27.6	28.1	28.1	27.2	26.1	25.1
80°	27.8	28.1	28.9	29.3	29.5	29.4	29.0	28.3	27.2	26.7	26.7
77.5°	30.3	31.3	31.8	31.9	31.7	31.9	32.4	33.1	33.7	34.0	34.2
75°	33.8	34.6	34.4	34.7	35.3	36.3	37.5	37.6	37.1	36.8	36.8
72.5°	36.2	36.1	36.5	37.4	38.3	38.7	38.6	38.0	38.6	40.5	42.3
70°	37.0	37.3	38.9	40.0	40.6	40.8	41.9	43.4	45.3	47.5	49.6
67.5°	38.1	40.4	42.0	42.8	43.6	44.9	46.8	49.4	52.0	54.5	57.0
65°	41.6	43.8	44.5	45.2	46.6	49.7	52.8	55.8	58.7	61.9	65.7
62.5°	45.2	45.5	46.1	48.1	51.8	55.3	58.7	62.1	65.2	71.4	77.4
60°	46.3	46.4	49.0	53.1	57.0	60.9	64.6	70.9	77.8	84.4	88.1
57.5°	46.7	49.0	53.5	57.9	62.2	67.1	75.2	83.0	88.1	91.1	99.7
55°	48.1	53.1	57.9	62.6	68.9	77.8	86.2	92.4	96.9	120.0	139.0
52.5°	51.8	57.0	62.2	68.9	78.7	88.3	96.3	118.5	151.8	167.9	179.4
50°	55.3	60.9	67.1	77.8	88.9	99.2	136.9	184.1	203.8	213.3	218.8
47.5°	58.9	64.6	75.2	87.2	100.2	145.8	210.3	234.1	247.0	252.0	258.0
45°	62.6	71.0	83.0	98.5	139.1	224.1	258.6	275.0	279.5	295.9	339.2
42.5°	66.5	78.6	93.5	111.3	219.2	277.0	297.0	302.6	326.3	384.1	441.9
40°	73.1	86.3	104.9	190.2	289.3	312.8	322.2	342.3	417.0	499.5	570.5
37.5°	80.0	97.2	132.0	271.7	322.2	339.6	344.4	432.9	535.9	639.4	740.1
35°	86.9	107.8	200.7	320.4	354.5	358.9	427.6	541.1	681.4	818.9	940.2
32.5°	95.2	118.3	264.3	338.9	372.1	397.6	517.7	686.4	857.6	1021.1	1186.1
30°	104.3	168.8	310.0	355.4	379.7	481.5	645.9	845.0	1051.7	1275.6	1465.2
27.5°	113.2	218.0	323.8	365.2	402.3	559.3	789.6	1031.1	1290.6	1556.7	1788.4
25°	121.6	262.4	335.8	374.6	469.7	670.1	940.4	1223.2	1555.1	1887.0	2272.9
22.5°	143.9	301.1	346.1	385.4	535.1	794.8	1123.9	1491.1	1850.5	2256.5	2863.8
20°	176.8	309.6	354.7	405.4	598.2	919.6	1322.9	1821.9	2328.1	2862.8	4065.2
17.5°	205.4	316.6	363.4	456.6	693.1	1064.6	1547.6	2198.6	2911.2	3831.7	5840.4
15°	229.7	322.1	372.4	503.9	790.9	1233.3	1855.3	2684.7	3687.4	5141.3	8055.7
12.5°	249.8	326.2	381.3	546.8	882.8	1401.4	2178.1	3223.5	4622.1	6963.9	12505.7
10°	265.7	329.0	389.8	584.8	967.1	1564.4	2505.4	3786.5	5607.9	8788.6	16857.6
7.5°	277.6	330.4	397.6	617.1	1041.9	1717.2	2825.1	4352.6	6607.8	10563.4	20976.9
5°	285.6	330.7	404.2	643.3	1105.3	1854.6	3124.4	4898.3	7580.8	12230.5	24713.2
2.5°	289.8	329.8	409.2	662.7	1155.3	1971.1	3389.8	5398.6	8482.4	13727.9	27904.9
0°	290.5	327.9	412.3	674.6	1190.0	2061.3	3607.3	5828.0	9266.6	14991.5	30385.9
-2.5°	296.3	331.7	411.8	669.2	1182.9	2062.5	3640.3	5932.7	9574.4	15672.3	31416.2
-5°	298.2	334.8	409.4	656.0	1158.3	2030.2	3606.0	5929.1	9684.7	15987.9	31469.3
-7.5°	295.9	337.7	405.2	635.2	1116.0	1962.8	3499.3	5806.9	9566.4	15876.0	30457.2
-10°	288.8	340.4	399.7	607.2	1055.9	1859.1	3315.9	5556.9	9191.7	15282.4	28310.4
-12.5°	276.6	343.5	393.2	572.3	978.0	1718.2	3052.3	5172.0	8537.7	14162.6	24979.8
-15°	259.0	347.0	386.0	530.7	882.4	1539.5	2705.8	4646.5	7585.9	12482.9	20437.6
-17.5°	235.6	351.3	378.4	482.9	769.4	1322.8	2274.8	4010.6	6593.2	10979.2	18150.9
-20°	206.3	356.6	370.7	429.1	652.0	1129.3	1969.3	3481.2	5762.7	9402.7	15466.7



REPORT NUMBER: P699868 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1L-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	170.7	363.1	368.1	409.1	585.9	971.8	1661.7	2856.1	4780.4	7658.6	12708.2
-25°	146.4	322.0	374.1	398.8	514.3	796.7	1312.8	2209.2	3991.9	6571.6	10532.4
-27.5°	137.6	272.2	382.0	389.3	437.7	634.5	1066.6	1858.8	3211.3	5294.2	8210.9
-30°	127.8	214.7	392.2	385.8	412.3	546.9	862.5	1433.3	2411.4	4181.4	6614.2
-32.5°	116.9	153.9	346.5	397.7	403.3	454.6	654.8	1122.0	1884.2	3018.5	4988.7
-35°	106.9	141.0	268.6	412.5	389.1	410.5	542.3	817.3	1353.5	2250.5	3562.9
-37.5°	99.0	127.0	181.8	372.7	391.7	387.5	422.3	615.7	977.1	1532.6	2494.5
-40°	90.7	111.9	146.1	265.9	391.6	370.9	390.4	461.9	666.9	1072.3	1633.4
-42.5°	82.3	102.1	128.4	162.1	310.5	367.3	354.8	391.5	483.3	687.5	1078.5
-45°	76.3	92.1	111.2	140.8	204.5	323.5	346.1	340.3	385.9	470.8	669.5
-47.5°	70.0	82.6	99.8	120.0	148.8	219.0	311.6	325.0	324.2	368.5	426.0
-50°	64.4	75.2	88.1	105.1	125.8	152.4	212.7	282.7	300.7	303.0	334.6
-52.5°	61.2	67.3	78.7	91.9	107.7	127.1	151.5	193.0	245.0	270.0	278.0
-55°	57.3	62.1	69.3	80.5	93.2	107.7	124.0	146.2	168.1	206.6	237.1
-57.5°	53.3	57.3	62.2	69.6	80.3	91.9	105.1	117.9	136.5	155.7	176.3
-60°	49.3	52.5	56.4	61.2	67.7	77.7	88.3	99.9	111.4	122.2	138.1
-62.5°	45.2	48.1	50.9	54.2	58.9	64.2	72.5	82.2	92.2	101.7	110.4
-65°	41.6	43.8	46.0	48.4	50.7	54.8	59.6	64.8	72.9	81.2	89.1
-67.5°	38.1	40.4	42.0	43.2	45.1	47.0	48.7	52.7	57.2	62.2	67.6
-70°	37.0	37.3	38.9	40.0	40.6	41.0	42.5	43.8	45.3	48.2	52.4
-72.5°	36.2	36.1	36.5	37.4	38.3	38.7	38.6	38.0	38.6	40.5	42.3
-75°	33.4	34.5	34.4	34.7	35.3	36.3	37.5	37.6	37.1	36.8	36.8
-77.5°	29.0	29.8	30.5	31.2	31.7	31.9	32.4	33.1	33.7	34.0	34.2
-80°	26.2	25.1	25.4	25.7	26.0	26.3	26.5	26.6	26.7	26.7	26.7
-82.5°	26.1	25.1	24.0	23.0	21.9	20.9	20.1	19.9	20.5	20.9	21.1
-85°	24.0	25.0	24.0	22.9	21.9	20.8	19.8	18.7	18.2	17.8	17.4
-87.5°	12.0	12.5	12.9	13.1	13.3	13.4	13.3	13.2	13.0	12.7	12.4
-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: P699868 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1L-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°	15.3	15.8	16.2	16.6	16.9	17.3	15.6	13.9	12.1	10.2	8.2
85°	22.1	21.6	21.0	20.3	19.6	18.7	17.6	16.5	15.4	14.4	13.4
82.5°	24.0	23.0	21.9	20.9	19.8	18.8	18.5	18.4	18.4	18.4	18.5
80°	26.6	26.5	26.3	26.1	25.7	25.3	25.8	26.3	26.8	27.2	27.5
77.5°	33.9	33.6	33.4	33.4	33.6	34.0	34.6	35.3	35.9	36.4	36.8
75°	37.1	37.9	39.2	40.4	41.5	42.5	43.4	44.2	44.9	45.4	45.9
72.5°	44.0	45.7	47.2	48.6	49.9	51.0	52.1	53.1	53.9	54.6	55.2
70°	51.6	53.4	55.2	57.2	60.0	62.9	65.6	67.8	69.7	71.3	72.6
67.5°	60.1	63.5	67.2	71.1	74.5	77.1	79.0	80.2	81.3	82.2	83.0
65°	70.2	74.9	78.7	81.9	84.4	87.8	91.1	93.8	96.3	98.3	100.1
62.5°	82.6	86.5	90.5	94.7	99.2	105.2	111.1	115.8	119.8	123.3	126.1
60°	92.3	97.0	109.5	120.1	128.2	133.9	137.4	142.6	147.9	152.9	157.3
57.5°	118.0	133.1	145.0	154.1	160.3	163.8	167.1	176.7	189.1	201.7	214.1
55°	156.8	171.0	181.9	190.9	198.9	205.7	214.7	243.5	281.9	321.9	362.3
52.5°	196.9	209.9	221.5	236.8	268.1	297.7	325.5	372.0	443.3	516.2	589.0
50°	234.0	256.1	294.5	331.8	380.7	434.1	487.1	546.3	654.3	767.1	881.3
47.5°	295.8	339.5	395.4	456.9	524.1	602.9	681.1	755.1	865.1	988.8	1111.7
45°	376.6	441.6	513.8	602.3	692.5	775.1	849.3	915.8	995.0	1103.8	1208.3
42.5°	485.8	555.2	651.3	750.8	844.2	914.8	959.1	996.4	1047.1	1145.3	1231.0
40°	634.5	676.3	789.9	886.2	945.5	996.5	1035.4	1071.2	1110.6	1205.1	1279.1
37.5°	815.6	861.7	900.5	969.3	1019.9	1064.4	1143.8	1217.5	1265.4	1354.2	1435.0
35°	1040.9	1062.2	992.9	1033.1	1117.0	1244.8	1394.3	1568.7	1607.1	1631.3	1749.1
32.5°	1288.7	1313.7	1233.8	1175.9	1338.1	1735.5	2003.5	2357.8	2357.6	2073.6	2277.7
30°	1594.7	1689.3	1847.0	1757.7	2078.0	2786.9	3453.9	3991.3	4009.3	3390.9	3606.9
27.5°	2062.0	2536.7	3087.5	3972.2	3724.9	4681.4	6276.0	7109.7	7651.9	6901.6	7347.9
25°	2863.8	3876.0	6407.5	7831.9	8098.4	8574.5	11040.4	12705.5	14413.2	14892.5	14454.6
22.5°	4332.6	7597.1	10971.3	13037.7	14541.1	15905.3	18026.1	21604.2	23708.1	24618.8	24515.2
20°	6785.6	12395.0	16642.6	19716.1	22273.0	24824.5	28197.8	31469.3	33841.4	34898.8	35894.0
17.5°	11445.0	18019.9	23111.6	27014.3	30636.0	34712.4	38127.4	41120.3	42978.5	45751.6	48808.6
15°	16687.9	24182.0	29979.3	34818.3	39413.6	43494.1	46533.5	48348.8	52240.3	56872.2	62418.0
12.5°	22117.9	30484.7	36855.8	42541.6	47734.9	50734.9	52242.1	54800.8	59914.9	67326.4	79551.4
10°	27584.6	36461.4	42958.7	48521.7	53518.2	56286.4	56827.3	59626.5	66834.8	80619.5	100403.4
7.5°	32926.5	42174.5	48338.2	53460.1	57033.8	58588.8	60117.9	64531.0	74891.1	93826.6	134119.8
5°	37948.5	47517.4	53058.9	57507.0	59819.9	60431.4	62165.6	68117.9	82587.2	111867.4	178310.7
2.5°	42436.0	52375.3	57212.1	60843.7	62066.4	62019.7	63781.5	70604.5	88493.0	129822.3	227829.3
0°	46164.5	56630.5	60912.4	63695.2	64013.8	63498.4	65072.6	72024.9	91691.9	138657.5	249515.1
-2.5°	48052.5	59322.9	63871.9	66563.0	66947.4	66466.6	67729.7	74189.7	92652.7	135681.2	235993.4
-5°	48798.3	61185.0	66530.7	69273.8	69899.1	69534.9	70332.7	75530.7	90679.2	122762.7	190800.7
-7.5°	48263.5	62120.8	68915.6	71901.9	72912.7	72741.5	73002.1	76207.0	86365.2	106400.9	148163.6
-10°	46337.6	62057.4	71055.7	74514.3	76023.8	76135.4	76202.7	77420.5	82852.0	95955.8	115901.9
-12.5°	42942.3	60948.2	72980.6	77150.3	78994.5	79825.0	80248.9	81130.1	83492.3	87980.3	99988.9
-15°	38134.6	57388.3	71288.1	78016.3	81117.7	83060.7	84348.7	85075.3	86370.2	88494.3	92274.7
-17.5°	32282.2	50581.5	67223.5	78324.9	82644.6	85418.6	87524.2	89280.4	89897.2	91005.2	92741.6
-20°	25441.7	42632.6	60677.3	74074.3	82401.9	86816.4	89806.8	91538.9	92808.5	93862.7	95651.6



REPORT NUMBER: P699868 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1L-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	20761.5	34257.9	50955.7	67892.1	79127.3	86116.9	90128.9	91913.6	93658.9	95459.9	97401.2
-25°	16506.1	25485.2	40656.1	56510.4	71635.3	81913.3	87435.7	90622.9	92738.2	94970.0	96982.9
-27.5°	13007.1	20072.9	29824.6	44436.4	59083.8	72078.5	80251.5	86973.0	89829.7	92606.2	94241.8
-30°	9797.7	14896.2	22452.4	32079.3	44554.6	56232.3	67667.9	76326.2	82872.2	87961.1	89763.3
-32.5°	7619.6	10997.2	16005.6	23008.0	30217.1	40317.5	50167.3	59905.1	68832.5	75483.2	79637.7
-35°	5551.1	8203.2	11349.1	15833.3	20893.9	26972.5	33351.3	41679.3	49157.8	56126.0	62000.9
-37.5°	3826.1	5785.2	8220.6	10843.9	14503.9	18211.5	22706.0	27011.6	30616.2	36594.8	41598.0
-40°	2577.8	3735.7	5601.8	7590.7	9971.9	12334.7	15547.8	18466.8	21333.1	24113.5	26368.9
-42.5°	1630.5	2484.4	3485.6	5005.0	6670.3	8503.0	10526.0	12440.9	14536.5	16451.6	18048.9
-45°	975.5	1529.8	2182.2	3114.4	4073.4	5467.8	6878.0	8214.1	9660.6	10906.4	11978.7
-47.5°	617.1	844.1	1293.8	1822.5	2445.4	3293.5	4142.4	5038.2	6028.3	6872.2	7592.9
-50°	403.6	522.3	734.2	959.9	1366.3	1836.5	2303.0	2876.2	3452.6	3968.9	4418.6
-52.5°	295.2	357.2	433.8	542.2	740.3	944.9	1153.2	1491.7	1799.0	2069.7	2301.4
-55°	259.1	273.8	287.6	340.6	413.8	492.6	591.4	747.1	881.6	1000.3	1102.2
-57.5°	204.2	229.2	248.5	259.9	270.3	279.7	318.7	378.5	433.2	482.1	524.7
-60°	153.3	167.6	188.4	207.3	223.5	237.0	244.3	252.0	259.1	265.4	270.8
-62.5°	118.7	129.7	141.9	153.3	163.8	175.5	187.4	197.0	205.3	212.2	217.7
-65°	96.6	103.6	110.2	116.4	122.2	130.8	138.6	144.9	150.1	154.1	157.1
-67.5°	74.2	80.5	86.4	91.9	97.0	101.6	105.8	109.5	112.7	115.5	117.8
-70°	56.4	60.1	63.6	67.4	71.9	75.9	79.6	82.9	85.7	88.2	90.1
-72.5°	44.0	45.7	47.5	50.3	52.9	55.3	57.4	59.3	61.0	62.4	63.5
-75°	37.1	37.9	39.2	40.4	41.5	42.5	43.4	44.2	44.9	45.4	45.9
-77.5°	33.9	33.6	33.4	33.4	33.6	34.0	34.6	35.3	35.9	36.4	36.8
-80°	26.6	26.5	26.3	26.1	25.7	25.3	25.6	26.0	26.4	26.8	27.2
-82.5°	21.1	21.0	20.6	20.1	19.5	18.8	17.7	16.7	15.7	14.6	13.6
-85°	17.2	17.1	17.0	17.1	17.2	17.3	16.6	15.8	15.0	14.1	13.3
-87.5°	11.9	11.4	10.8	10.2	9.5	8.7	7.9	7.0	6.1	5.1	4.1
-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: P699868 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1L-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°	6.2	4.1	2.1	0.0	2.1	4.1	6.2	8.2	10.2	12.1	13.9
85°	12.4	11.4	10.4	9.4	10.4	11.4	12.4	13.4	14.4	15.4	16.5
82.5°	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.5	18.4	18.4	18.4
80°	27.8	28.0	28.1	28.1	28.1	28.0	27.8	27.5	27.2	26.8	26.3
77.5°	37.1	37.3	37.5	37.5	37.5	37.3	37.1	36.8	36.4	35.9	35.3
75°	46.3	46.6	46.7	46.8	46.7	46.6	46.3	45.9	45.4	44.9	44.2
72.5°	55.6	55.9	56.1	56.2	56.1	55.9	55.6	55.2	54.6	53.9	53.1
70°	73.7	74.4	74.9	75.0	74.9	74.4	73.7	72.6	71.3	69.7	67.8
67.5°	83.5	84.0	84.2	84.3	84.2	84.0	83.5	83.0	82.2	81.3	80.2
65°	101.4	102.3	102.9	103.1	102.9	102.3	101.4	100.1	98.3	96.3	93.8
62.5°	128.3	129.9	130.9	131.2	130.9	129.9	128.3	126.1	123.3	119.8	115.8
60°	161.3	164.5	167.0	168.7	167.0	164.5	161.3	157.3	152.9	147.9	142.6
57.5°	225.8	236.5	245.7	253.0	245.7	236.5	225.8	214.1	201.7	189.1	176.7
55°	401.5	438.0	470.3	496.6	470.3	438.0	401.5	362.3	321.9	281.9	243.5
52.5°	659.3	725.0	784.0	833.9	784.0	725.0	659.3	589.0	516.2	443.3	372.0
50°	993.7	1100.7	1198.5	1283.6	1198.5	1100.7	993.7	881.3	767.1	654.3	546.3
47.5°	1231.8	1347.1	1455.7	1555.4	1455.7	1347.1	1231.8	1111.7	988.8	865.1	755.1
45°	1308.9	1406.2	1500.6	1592.8	1500.6	1406.2	1308.9	1208.3	1103.8	995.0	915.8
42.5°	1306.8	1376.1	1442.1	1508.5	1442.1	1376.1	1306.8	1231.0	1145.3	1047.1	996.4
40°	1334.9	1377.1	1411.2	1442.9	1411.2	1377.1	1334.9	1279.1	1205.1	1110.6	1071.2
37.5°	1492.9	1531.1	1553.6	1564.7	1553.6	1531.1	1492.9	1435.0	1354.2	1265.4	1217.5
35°	1842.0	1909.5	1951.3	1967.6	1951.3	1909.5	1842.0	1749.1	1631.3	1607.1	1568.7
32.5°	2423.9	2514.9	2554.7	2548.6	2554.7	2514.9	2423.9	2277.7	2073.6	2357.6	2357.8
30°	4015.2	4171.9	4119.0	3907.2	4119.0	4171.9	4015.2	3606.9	3390.9	4009.3	3991.3
27.5°	8572.9	9040.5	8857.5	8161.0	8857.5	9040.5	8572.9	7347.9	6901.6	7651.9	7109.7
25°	15778.2	16051.0	15342.4	13857.8	15342.4	16051.0	15778.2	14454.6	14892.5	14413.2	12705.5
22.5°	25366.8	26033.9	25484.1	23780.3	25484.1	26033.9	25366.8	24515.2	24618.8	23708.1	21604.2
20°	37778.9	40213.5	41338.5	40776.9	41338.5	40213.5	37778.9	35894.0	34898.8	33841.4	31469.3
17.5°	52565.4	57035.1	60316.7	61427.7	60316.7	57035.1	52565.4	48808.6	45751.6	42978.5	41120.3
15°	70223.1	78501.0	85543.1	89143.3	85543.1	78501.0	70223.1	62418.0	56872.2	52240.3	48348.8
12.5°	92983.3	109684.0	126866.6	135870.0	126866.6	109684.0	92983.3	79551.4	67326.4	59914.9	54800.8
10°	132812.3	173084.7	213578.7	226044.0	213578.7	173084.7	132812.3	100403.4	80619.5	66834.8	59626.5
7.5°	203964.4	311382.3	435511.3	482164.7	435511.3	311382.3	203964.4	134119.8	93826.6	74891.1	64531.0
5°	320145.2	565525.1	876897.9	#####	876897.9	565525.1	320145.2	178310.7	111867.4	82587.2	68117.9
2.5°	455010.6	891144.8	#####	#####	#####	891144.8	455010.6	227829.3	129822.3	88493.0	70604.5
0°	529200.5	#####	#####	#####	#####	#####	529200.5	249515.1	138657.5	91691.9	72024.9
-2.5°	478445.5	928405.7	#####	#####	#####	928405.7	478445.5	235993.4	135681.2	92652.7	74189.7
-5°	351252.5	635232.3	973577.3	#####	973577.3	635232.3	351252.5	190800.7	122762.7	90679.2	75530.7
-7.5°	225045.2	369176.4	533985.1	608055.9	533985.1	369176.4	225045.2	148163.6	106400.9	86365.2	76207.0
-10°	150736.1	202801.4	258064.9	272639.5	258064.9	202801.4	150736.1	115901.9	95955.8	82852.0	77420.5
-12.5°	113172.5	131362.3	147237.2	154051.9	147237.2	131362.3	113172.5	99988.9	87980.3	83492.3	81130.1
-15°	99517.3	106513.4	111245.0	114113.6	111245.0	106513.4	99517.3	92274.7	88494.3	86370.2	85075.3
-17.5°	96171.9	98232.1	100122.6	101961.1	100122.6	98232.1	96171.9	92741.6	91005.2	89897.2	89280.4
-20°	97334.8	98001.4	99021.2	100255.8	99021.2	98001.4	97334.8	95651.6	93862.7	92808.5	91538.9



REPORT NUMBER: P699868 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1L-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	98376.0	98997.5	99810.6	100658.7	99810.6	98997.5	98376.0	97401.2	95459.9	93658.9	91913.6
-25°	97688.1	98355.3	98937.4	99337.5	98937.4	98355.3	97688.1	96982.9	94970.0	92738.2	90622.9
-27.5°	95127.2	95799.9	96215.4	96329.9	96215.4	95799.9	95127.2	94241.8	92606.2	89829.7	86973.0
-30°	90993.0	91822.2	92245.0	92263.4	92245.0	91822.2	90993.0	89763.3	87961.1	82872.2	76326.2
-32.5°	82916.7	85268.2	86650.5	87035.1	86650.5	85268.2	82916.7	79637.7	75483.2	68832.5	59905.1
-35°	66580.2	69826.2	71717.2	72249.7	71717.2	69826.2	66580.2	62000.9	56126.0	49157.8	41679.3
-37.5°	45543.2	48388.3	50101.2	50662.0	50101.2	48388.3	45543.2	41598.0	36594.8	30616.2	27011.6
-40°	28104.6	29323.9	30035.7	30254.8	30035.7	29323.9	28104.6	26368.9	24113.5	21333.1	18466.8
-42.5°	19321.2	20264.1	20875.6	21156.8	20875.6	20264.1	19321.2	18048.9	16451.6	14536.5	12440.9
-45°	12865.2	13554.1	14035.0	14298.2	14035.0	13554.1	12865.2	11978.7	10906.4	9660.6	8214.1
-47.5°	8183.9	8639.7	8955.2	9126.1	8955.2	8639.7	8183.9	7592.9	6872.2	6028.3	5038.2
-50°	4795.2	5092.5	5304.4	5425.1	5304.4	5092.5	4795.2	4418.6	3968.9	3452.6	2876.2
-52.5°	2491.6	2638.1	2739.0	2792.2	2739.0	2638.1	2491.6	2301.4	2069.7	1799.0	1491.7
-55°	1186.2	1251.3	1296.5	1321.1	1296.5	1251.3	1186.2	1102.2	1000.3	881.6	747.1
-57.5°	560.2	588.0	607.6	618.4	607.6	588.0	560.2	524.7	482.1	433.2	378.5
-60°	275.2	278.4	280.4	281.1	280.4	278.4	275.2	270.8	265.4	259.1	252.0
-62.5°	221.7	224.3	225.3	224.9	225.3	224.3	221.7	217.7	212.2	205.3	197.0
-65°	159.0	160.0	160.1	159.3	160.1	160.0	159.0	157.1	154.1	150.1	144.9
-67.5°	119.5	120.8	121.5	121.8	121.5	120.8	119.5	117.8	115.5	112.7	109.5
-70°	91.7	92.8	93.5	93.7	93.5	92.8	91.7	90.1	88.2	85.7	82.9
-72.5°	64.4	65.1	65.5	65.6	65.5	65.1	64.4	63.5	62.4	61.0	59.3
-75°	46.3	46.6	46.7	46.8	46.7	46.6	46.3	45.9	45.4	44.9	44.2
-77.5°	37.1	37.3	37.5	37.5	37.5	37.3	37.1	36.8	36.4	35.9	35.3
-80°	27.6	27.8	28.0	28.1	28.0	27.8	27.6	27.2	26.8	26.4	26.0
-82.5°	12.5	11.5	10.4	9.4	10.4	11.5	12.5	13.6	14.6	15.7	16.7
-85°	12.4	11.4	10.4	9.4	10.4	11.4	12.4	13.3	14.1	15.0	15.8
-87.5°	3.1	2.1	1.0	0.0	1.0	2.1	3.1	4.1	5.1	6.1	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: P699868 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1L-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°	15.6	17.3	16.9	16.6	16.2	15.8	15.3	14.8	14.3	13.8	13.2
85°	17.6	18.7	19.6	20.3	21.0	21.6	22.1	22.4	22.6	22.7	22.6
82.5°	18.5	18.8	19.8	20.9	21.9	23.0	24.0	25.1	26.1	27.2	28.1
80°	25.8	25.3	25.7	26.1	26.3	26.5	26.6	26.7	26.7	27.2	28.3
77.5°	34.6	34.0	33.6	33.4	33.4	33.6	33.9	34.2	34.0	33.7	33.1
75°	43.4	42.5	41.5	40.4	39.2	37.9	37.1	36.8	36.8	37.1	37.6
72.5°	52.1	51.0	49.9	48.6	47.2	45.7	44.0	42.3	40.5	38.6	38.0
70°	65.6	62.9	60.0	57.2	55.2	53.4	51.6	49.6	47.5	45.3	43.4
67.5°	79.0	77.1	74.5	71.1	67.2	63.5	60.1	57.0	54.5	52.0	49.4
65°	91.1	87.8	84.4	81.9	78.7	74.9	70.2	65.7	61.9	58.7	55.8
62.5°	111.1	105.2	99.2	94.7	90.5	86.5	82.6	77.4	71.4	65.2	62.1
60°	137.4	133.9	128.2	120.1	109.5	97.0	92.3	88.1	84.4	77.8	70.9
57.5°	167.1	163.8	160.3	154.1	145.0	133.1	118.0	99.7	91.1	88.1	83.0
55°	214.7	205.7	198.9	190.9	181.9	171.0	156.8	139.0	120.0	96.9	92.4
52.5°	325.5	297.7	268.1	236.8	221.5	209.9	196.9	179.4	167.9	151.8	118.5
50°	487.1	434.1	380.7	331.8	294.5	256.1	234.0	218.8	213.3	203.8	184.1
47.5°	681.1	602.9	524.1	456.9	395.4	339.5	295.8	258.0	252.0	247.0	234.1
45°	849.3	775.1	692.5	602.3	513.8	441.6	376.6	339.2	295.9	279.5	275.0
42.5°	959.1	914.8	844.2	750.8	651.3	555.2	485.8	441.9	384.1	326.3	302.6
40°	1035.4	996.5	945.5	886.2	789.9	676.3	634.5	570.5	499.5	417.0	342.3
37.5°	1143.8	1064.4	1019.9	969.3	900.5	861.7	815.6	740.1	639.4	535.9	432.9
35°	1394.3	1244.8	1117.0	1033.1	992.9	1062.2	1040.9	940.2	818.9	681.4	541.1
32.5°	2003.5	1735.5	1338.1	1175.9	1233.8	1313.7	1288.7	1186.1	1021.1	857.6	686.4
30°	3453.9	2786.9	2078.0	1757.7	1847.0	1689.3	1594.7	1465.2	1275.6	1051.7	845.0
27.5°	6276.0	4681.4	3724.9	3972.2	3087.5	2536.7	2062.0	1788.4	1556.7	1290.6	1031.1
25°	11040.4	8574.5	8098.4	7831.9	6407.5	3876.0	2863.8	2272.9	1887.0	1555.1	1223.2
22.5°	18026.1	15905.3	14541.1	13037.7	10971.3	7597.1	4332.6	2863.8	2256.5	1850.5	1491.1
20°	28197.8	24824.5	22273.0	19716.1	16642.6	12395.0	6785.6	4065.2	2862.8	2328.1	1821.9
17.5°	38127.4	34712.4	30636.0	27014.3	23111.6	18019.9	11445.0	5840.4	3831.7	2911.2	2198.6
15°	46533.5	43494.1	39413.6	34818.3	29979.3	24182.0	16687.9	8055.7	5141.3	3687.4	2684.7
12.5°	52242.1	50734.9	47734.9	42541.6	36855.8	30484.7	22117.9	12505.7	6963.9	4622.1	3223.5
10°	56827.3	56286.4	53518.2	48521.7	42958.7	36461.4	27584.6	16857.6	8788.6	5607.9	3786.5
7.5°	60117.9	58588.8	57033.8	53460.1	48338.2	42174.5	32926.5	20976.9	10563.4	6607.8	4352.6
5°	62165.6	60431.4	59819.9	57507.0	53058.9	47517.4	37948.5	24713.2	12230.5	7580.8	4898.3
2.5°	63781.5	62019.7	62066.4	60843.7	57212.1	52375.3	42436.0	27904.9	13727.9	8482.4	5398.6
0°	65072.6	63498.4	64013.8	63695.2	60912.4	56630.5	46164.5	30385.9	14991.5	9266.6	5828.0
-2.5°	67729.7	66466.6	66947.4	66563.0	63871.9	59322.9	48052.5	31416.2	15672.3	9574.4	5932.7
-5°	70332.7	69534.9	69899.1	69273.8	66530.7	61185.0	48798.3	31469.3	15987.9	9684.7	5929.1
-7.5°	73002.1	72741.5	72912.7	71901.9	68915.6	62120.8	48263.5	30457.2	15876.0	9566.4	5806.9
-10°	76202.7	76135.4	76023.8	74514.3	71055.7	62057.4	46337.6	28310.4	15282.4	9191.7	5556.9
-12.5°	80248.9	79825.0	78994.5	77150.3	72980.6	60948.2	42942.3	24979.8	14162.6	8537.7	5172.0
-15°	84348.7	83060.7	81117.7	78016.3	71288.1	57388.3	38134.6	20437.6	12482.9	7585.9	4646.5
-17.5°	87524.2	85418.6	82644.6	78324.9	67223.5	50581.5	32282.2	18150.9	10979.2	6593.2	4010.6
-20°	89806.8	86816.4	82401.9	74074.3	60677.3	42632.6	25441.7	15466.7	9402.7	5762.7	3481.2



REPORT NUMBER: P699868 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1L-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	90128.9	86116.9	79127.3	67892.1	50955.7	34257.9	20761.5	12708.2	7658.6	4780.4	2856.1
-25°	87435.7	81913.3	71635.3	56510.4	40656.1	25485.2	16506.1	10532.4	6571.6	3991.9	2209.2
-27.5°	80251.5	72078.5	59083.8	44436.4	29824.6	20072.9	13007.1	8210.9	5294.2	3211.3	1858.8
-30°	67667.9	56232.3	44554.6	32079.3	22452.4	14896.2	9797.7	6614.2	4181.4	2411.4	1433.3
-32.5°	50167.3	40317.5	30217.1	23008.0	16005.6	10997.2	7619.6	4988.7	3018.5	1884.2	1122.0
-35°	33351.3	26972.5	20893.9	15833.3	11349.1	8203.2	5551.1	3562.9	2250.5	1353.5	817.3
-37.5°	22706.0	18211.5	14503.9	10843.9	8220.6	5785.2	3826.1	2494.5	1532.6	977.1	615.7
-40°	15547.8	12334.7	9971.9	7590.7	5601.8	3735.7	2577.8	1633.4	1072.3	666.9	461.9
-42.5°	10526.0	8503.0	6670.3	5005.0	3485.6	2484.4	1630.5	1078.5	687.5	483.3	391.5
-45°	6878.0	5467.8	4073.4	3114.4	2182.2	1529.8	975.5	669.5	470.8	385.9	340.3
-47.5°	4142.4	3293.5	2445.4	1822.5	1293.8	844.1	617.1	426.0	368.5	324.2	325.0
-50°	2303.0	1836.5	1366.3	959.9	734.2	522.3	403.6	334.6	303.0	300.7	282.7
-52.5°	1153.2	944.9	740.3	542.2	433.8	357.2	295.2	278.0	270.0	245.0	193.0
-55°	591.4	492.6	413.8	340.6	287.6	273.8	259.1	237.1	206.6	168.1	146.2
-57.5°	318.7	279.7	270.3	259.9	248.5	229.2	204.2	176.3	155.7	136.5	117.9
-60°	244.3	237.0	223.5	207.3	188.4	167.6	153.3	138.1	122.2	111.4	99.9
-62.5°	187.4	175.5	163.8	153.3	141.9	129.7	118.7	110.4	101.7	92.2	82.2
-65°	138.6	130.8	122.2	116.4	110.2	103.6	96.6	89.1	81.2	72.9	64.8
-67.5°	105.8	101.6	97.0	91.9	86.4	80.5	74.2	67.6	62.2	57.2	52.7
-70°	79.6	75.9	71.9	67.4	63.6	60.1	56.4	52.4	48.2	45.3	43.8
-72.5°	57.4	55.3	52.9	50.3	47.5	45.7	44.0	42.3	40.5	38.6	38.0
-75°	43.4	42.5	41.5	40.4	39.2	37.9	37.1	36.8	36.8	37.1	37.6
-77.5°	34.6	34.0	33.6	33.4	33.4	33.6	33.9	34.2	34.0	33.7	33.1
-80°	25.6	25.3	25.7	26.1	26.3	26.5	26.6	26.7	26.7	26.7	26.6
-82.5°	17.7	18.8	19.5	20.1	20.6	21.0	21.1	21.1	20.9	20.5	19.9
-85°	16.6	17.3	17.2	17.1	17.0	17.1	17.2	17.4	17.8	18.2	18.7
-87.5°	7.9	8.7	9.5	10.2	10.8	11.4	11.9	12.4	12.7	13.0	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: P699868 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1L-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°	13.3	13.4	13.3	13.1	12.9	12.5	12.0	11.4	10.8	9.6	8.4
85°	22.7	22.9	23.2	23.7	24.3	25.0	24.0	22.9	21.5	19.2	16.9
82.5°	28.1	27.6	27.0	26.7	26.5	26.6	26.9	27.4	28.1	28.1	25.3
80°	29.0	29.4	29.5	29.3	28.9	28.1	27.8	27.8	28.1	28.1	28.1
77.5°	32.4	31.9	31.7	31.9	31.8	31.3	30.3	29.0	28.1	28.1	28.1
75°	37.5	36.3	35.3	34.7	34.4	34.6	33.8	32.5	30.7	28.4	28.1
72.5°	38.6	38.7	38.3	37.4	36.5	36.1	36.2	36.2	34.1	31.5	28.8
70°	41.9	40.8	40.6	40.0	38.9	37.3	37.0	37.2	37.5	34.6	31.5
67.5°	46.8	44.9	43.6	42.8	42.0	40.4	38.1	37.4	37.7	37.5	34.1
65°	52.8	49.7	46.6	45.2	44.5	43.8	41.6	38.6	38.1	38.1	36.8
62.5°	58.7	55.3	51.8	48.1	46.1	45.5	45.2	42.2	39.1	38.7	38.0
60°	64.6	60.9	57.0	53.1	49.0	46.4	46.3	45.7	42.0	39.4	38.9
57.5°	75.2	67.1	62.2	57.9	53.5	49.0	46.7	46.9	44.8	41.4	39.8
55°	86.2	77.8	68.9	62.6	57.9	53.1	48.1	47.2	46.9	43.5	40.7
52.5°	96.3	88.3	78.7	68.9	62.2	57.0	51.8	47.7	47.5	45.5	42.3
50°	136.9	99.2	88.9	77.8	67.1	60.9	55.3	50.5	48.2	47.0	43.8
47.5°	210.3	145.8	100.2	87.2	75.2	64.6	58.9	53.3	49.1	47.9	45.1
45°	258.6	224.1	139.1	98.5	83.0	71.0	62.6	55.9	51.3	48.8	46.3
42.5°	297.0	277.0	219.2	111.3	93.5	78.6	66.5	59.2	53.3	49.9	47.3
40°	322.2	312.8	289.3	190.2	104.9	86.3	73.1	62.8	55.1	51.1	48.3
37.5°	344.4	339.6	322.2	271.7	132.0	97.2	80.0	66.4	57.1	52.5	49.3
35°	427.6	358.9	354.5	320.4	200.7	107.8	86.9	71.0	60.3	53.8	50.4
32.5°	517.7	397.6	372.1	338.9	264.3	118.3	95.2	77.0	63.4	54.8	51.5
30°	645.9	481.5	379.7	355.4	310.0	168.8	104.3	82.8	66.5	55.7	52.6
27.5°	789.6	559.3	402.3	365.2	323.8	218.0	113.2	88.5	69.6	57.2	53.4
25°	940.4	670.1	469.7	374.6	335.8	262.4	121.6	94.1	73.7	59.6	54.1
22.5°	1123.9	794.8	535.1	385.4	346.1	301.1	143.9	101.1	78.1	61.9	54.6
20°	1322.9	919.6	598.2	405.4	354.7	309.6	176.8	107.6	82.3	64.1	55.1
17.5°	1547.6	1064.6	693.1	456.6	363.4	316.6	205.4	113.7	86.2	66.2	55.4
15°	1855.3	1233.3	790.9	503.9	372.4	322.1	229.7	119.4	89.7	68.1	55.7
12.5°	2178.1	1401.4	882.8	546.8	381.3	326.2	249.8	124.5	93.0	69.8	55.9
10°	2505.4	1564.4	967.1	584.8	389.8	329.0	265.7	129.0	95.9	71.3	56.1
7.5°	2825.1	1717.2	1041.9	617.1	397.6	330.4	277.6	132.9	98.3	72.6	56.1
5°	3124.4	1854.6	1105.3	643.3	404.2	330.7	285.6	136.1	100.4	73.7	56.2
2.5°	3389.8	1971.1	1155.3	662.7	409.2	329.8	289.8	138.7	102.0	74.5	56.2
0°	3607.3	2061.3	1190.0	674.6	412.3	327.9	290.5	140.5	103.1	75.0	56.2
-2.5°	3640.3	2062.5	1182.9	669.2	411.8	331.7	296.3	141.1	103.3	75.2	56.5
-5°	3606.0	2030.2	1158.3	656.0	409.4	334.8	298.2	140.9	102.9	75.2	56.8
-7.5°	3499.3	1962.8	1116.0	635.2	405.2	337.7	295.9	139.9	102.1	74.8	57.1
-10°	3315.9	1859.1	1055.9	607.2	399.7	340.4	288.8	138.0	100.8	74.1	57.4
-12.5°	3052.3	1718.2	978.0	572.3	393.2	343.5	276.6	135.3	98.9	73.2	57.6
-15°	2705.8	1539.5	882.4	530.7	386.0	347.0	259.0	131.6	96.6	71.9	57.7
-17.5°	2274.8	1322.8	769.4	482.9	378.4	351.3	235.6	127.1	93.7	70.4	57.7
-20°	1969.3	1129.3	652.0	429.1	370.7	356.6	206.3	121.7	90.4	68.5	57.7



REPORT NUMBER: P699868 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1L-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1661.7	971.8	585.9	409.1	368.1	363.1	170.7	115.3	86.6	66.4	57.5
-25°	1312.8	796.7	514.3	398.8	374.1	322.0	146.4	108.1	82.4	64.0	57.2
-27.5°	1066.6	634.5	437.7	389.3	382.0	272.2	137.6	102.7	78.3	61.4	56.9
-30°	862.5	546.9	412.3	385.8	392.2	214.7	127.8	96.9	75.0	60.0	56.3
-32.5°	654.8	454.6	403.3	397.7	346.5	153.9	116.9	90.7	71.4	59.5	55.0
-35°	542.3	410.5	389.1	412.5	268.6	141.0	106.9	84.0	67.5	58.7	53.4
-37.5°	422.3	387.5	391.7	372.7	181.8	127.0	99.0	78.5	63.4	57.8	51.7
-40°	390.4	370.9	391.6	265.9	146.1	111.9	90.7	73.6	61.3	56.6	49.9
-42.5°	354.8	367.3	310.5	162.1	128.4	102.1	82.3	68.4	59.8	54.7	48.0
-45°	346.1	323.5	204.5	140.8	111.2	92.1	76.3	63.5	58.1	52.4	46.3
-47.5°	311.6	219.0	148.8	120.0	99.8	82.6	70.0	61.2	56.1	50.0	45.1
-50°	212.7	152.4	125.8	105.1	88.1	75.2	64.4	58.7	53.3	47.6	43.8
-52.5°	151.5	127.1	107.7	91.9	78.7	67.3	61.2	55.9	50.5	45.5	42.3
-55°	124.0	107.7	93.2	80.5	69.3	62.1	57.3	52.5	47.5	43.5	40.7
-57.5°	105.1	91.9	80.3	69.6	62.2	57.3	53.3	49.1	44.8	41.4	39.8
-60°	88.3	77.7	67.7	61.2	56.4	52.5	49.3	45.7	42.0	39.4	38.9
-62.5°	72.5	64.2	58.9	54.2	50.9	48.1	45.2	42.2	39.1	38.7	38.0
-65°	59.6	54.8	50.7	48.4	46.0	43.8	41.6	38.6	38.1	38.1	36.8
-67.5°	48.7	47.0	45.1	43.2	42.0	40.4	38.1	37.4	37.7	37.5	34.1
-70°	42.5	41.0	40.6	40.0	38.9	37.3	37.0	37.2	37.5	34.6	31.5
-72.5°	38.6	38.7	38.3	37.4	36.5	36.1	36.2	36.1	34.1	31.5	28.8
-75°	37.5	36.3	35.3	34.7	34.4	34.5	33.4	32.2	30.7	28.4	28.1
-77.5°	32.4	31.9	31.7	31.2	30.5	29.8	29.0	28.2	28.1	28.1	28.1
-80°	26.5	26.3	26.0	25.7	25.4	25.1	26.2	27.2	28.1	28.1	28.1
-82.5°	20.1	20.9	21.9	23.0	24.0	25.1	26.1	27.1	28.1	28.1	25.3
-85°	19.8	20.8	21.9	22.9	24.0	25.0	24.0	22.9	21.5	19.2	16.9
-87.5°	13.3	13.4	13.3	13.1	12.9	12.5	12.0	11.4	10.8	9.6	8.4
-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: P699868 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1L-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°	7.3	6.1	4.9	3.7	2.4	1.2	0.0
85°	14.5	12.1	9.7	7.3	4.9	2.4	0.0
82.5°	21.8	18.2	14.6	11.0	7.3	3.7	0.0
80°	28.1	24.2	19.4	14.6	9.7	4.9	0.0
77.5°	28.1	28.1	24.2	18.2	12.1	6.1	0.0
75°	28.1	28.1	28.1	21.8	14.5	7.3	0.0
72.5°	28.1	28.1	28.1	25.3	16.9	8.4	0.0
70°	28.4	28.1	28.1	28.1	19.2	9.6	0.0
67.5°	30.7	28.1	28.1	28.1	21.5	10.8	0.0
65°	32.9	29.0	28.1	28.1	23.7	11.9	0.0
62.5°	35.1	30.9	28.1	28.1	25.9	13.0	0.0
60°	37.3	32.7	28.1	28.1	28.1	14.0	0.0
57.5°	38.3	34.4	29.4	28.1	28.1	15.1	0.0
55°	39.2	36.1	30.8	28.1	28.1	16.1	0.0
52.5°	40.2	37.6	32.1	28.1	28.1	17.1	0.0
50°	41.2	38.6	33.4	28.1	28.1	18.1	0.0
47.5°	42.3	39.5	34.6	28.3	28.1	19.0	0.0
45°	43.3	40.4	35.8	29.2	28.1	19.9	0.0
42.5°	44.3	41.4	37.0	30.1	28.1	20.7	0.0
40°	45.1	42.4	37.9	30.9	28.1	21.5	0.0
37.5°	45.8	43.3	38.6	31.6	28.1	22.3	0.0
35°	46.4	44.1	39.4	32.4	28.1	23.0	0.0
32.5°	47.1	44.6	40.1	33.1	28.1	23.7	0.0
30°	47.9	45.0	40.8	33.7	28.1	24.3	0.0
27.5°	48.8	45.4	41.5	34.3	28.1	24.9	0.0
25°	49.7	45.7	42.2	34.8	28.1	25.5	0.0
22.5°	50.5	46.0	42.8	35.3	28.1	26.0	0.0
20°	51.3	46.3	43.5	35.8	28.1	26.4	0.0
17.5°	52.2	46.4	44.0	36.2	28.1	26.8	0.0
15°	52.9	46.6	44.6	36.5	28.1	27.1	0.0
12.5°	53.6	46.7	45.1	36.8	28.1	27.4	0.0
10°	54.3	46.7	45.5	37.1	28.1	27.7	0.0
7.5°	54.9	46.8	46.0	37.3	28.1	27.9	0.0
5°	55.4	46.8	46.3	37.4	28.1	28.0	0.0
2.5°	55.9	46.8	46.6	37.5	28.1	28.1	0.0
0°	56.2	46.8	46.8	37.5	28.1	28.1	0.0
-2.5°	56.1	46.8	46.6	37.5	28.1	28.1	0.0
-5°	56.0	46.8	46.3	37.4	28.1	28.0	0.0
-7.5°	55.7	46.8	46.0	37.3	28.1	27.9	0.0
-10°	55.3	46.7	45.5	37.1	28.1	27.7	0.0
-12.5°	54.8	46.7	45.1	36.8	28.1	27.4	0.0
-15°	54.2	46.6	44.6	36.5	28.1	27.1	0.0
-17.5°	53.5	46.4	44.0	36.2	28.1	26.8	0.0
-20°	52.7	46.3	43.5	35.8	28.1	26.4	0.0



REPORT NUMBER: P699868 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1L-S

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	51.8	46.0	42.8	35.3	28.1	26.0	0.0
-25°	50.8	45.7	42.2	34.8	28.1	25.5	0.0
-27.5°	49.7	45.4	41.5	34.3	28.1	24.9	0.0
-30°	48.5	45.0	40.8	33.7	28.1	24.3	0.0
-32.5°	47.2	44.6	40.1	33.1	28.1	23.7	0.0
-35°	46.4	44.1	39.4	32.4	28.1	23.0	0.0
-37.5°	45.8	43.3	38.6	31.6	28.1	22.3	0.0
-40°	45.1	42.4	37.9	30.9	28.1	21.5	0.0
-42.5°	44.3	41.4	37.0	30.1	28.1	20.7	0.0
-45°	43.3	40.4	35.8	29.2	28.1	19.9	0.0
-47.5°	42.3	39.5	34.6	28.3	28.1	19.0	0.0
-50°	41.2	38.6	33.4	28.1	28.1	18.1	0.0
-52.5°	40.2	37.6	32.1	28.1	28.1	17.1	0.0
-55°	39.2	36.1	30.8	28.1	28.1	16.1	0.0
-57.5°	38.3	34.4	29.4	28.1	28.1	15.1	0.0
-60°	37.3	32.7	28.1	28.1	28.1	14.0	0.0
-62.5°	35.1	30.9	28.1	28.1	25.9	13.0	0.0
-65°	32.9	29.0	28.1	28.1	23.7	11.9	0.0
-67.5°	30.7	28.1	28.1	28.1	21.5	10.8	0.0
-70°	28.4	28.1	28.1	28.1	19.2	9.6	0.0
-72.5°	28.1	28.1	28.1	25.3	16.9	8.4	0.0
-75°	28.1	28.1	28.1	21.8	14.5	7.3	0.0
-77.5°	28.1	28.1	24.2	18.2	12.1	6.1	0.0
-80°	28.1	24.2	19.4	14.6	9.7	4.9	0.0
-82.5°	21.8	18.2	14.6	11.0	7.3	3.7	0.0
-85°	14.5	12.1	9.7	7.3	4.9	2.4	0.0
-87.5°	7.3	6.1	4.9	3.7	2.4	1.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)