

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: P699862 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-40-70-3S-S**

Issue Date: 8/10/2023

Test Information

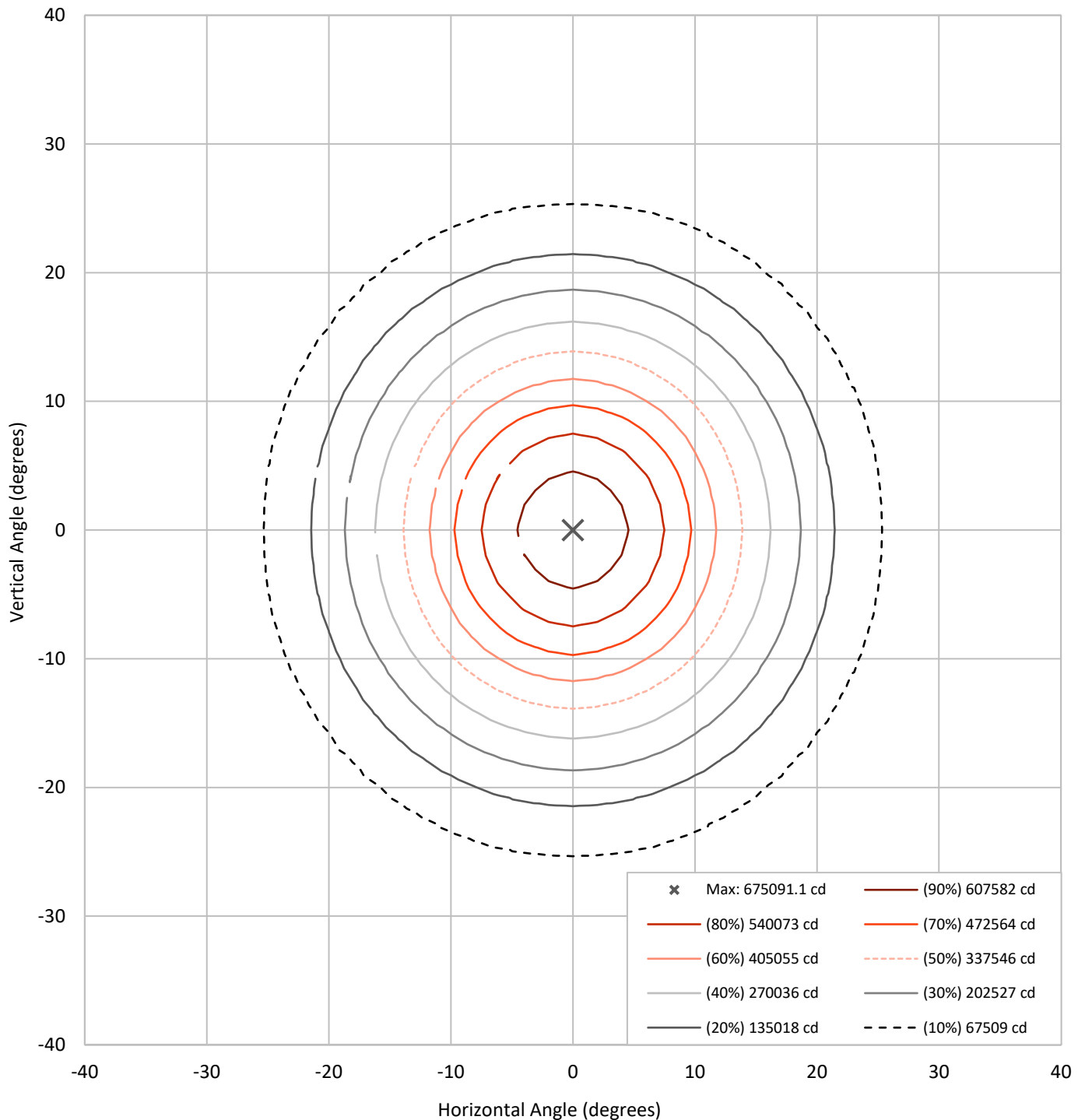
Test Method: LM-79-08
Report Number: P699862 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-11)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-40-70-3S-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 70 CRI LEDS AND 3S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	196934.5 lumens	Max Intensity:	675091.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	162.2 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	27.8°H x 27.8°V	Field Angle (10%):	50.4°H x 50.4°V
Beam Lumens:	86573 lumens	Field Lumens:	161076.4 lumens
Beam Efficiency:	44.0%	Field Efficiency:	81.8%
Input Watts (W):	1214.1		
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



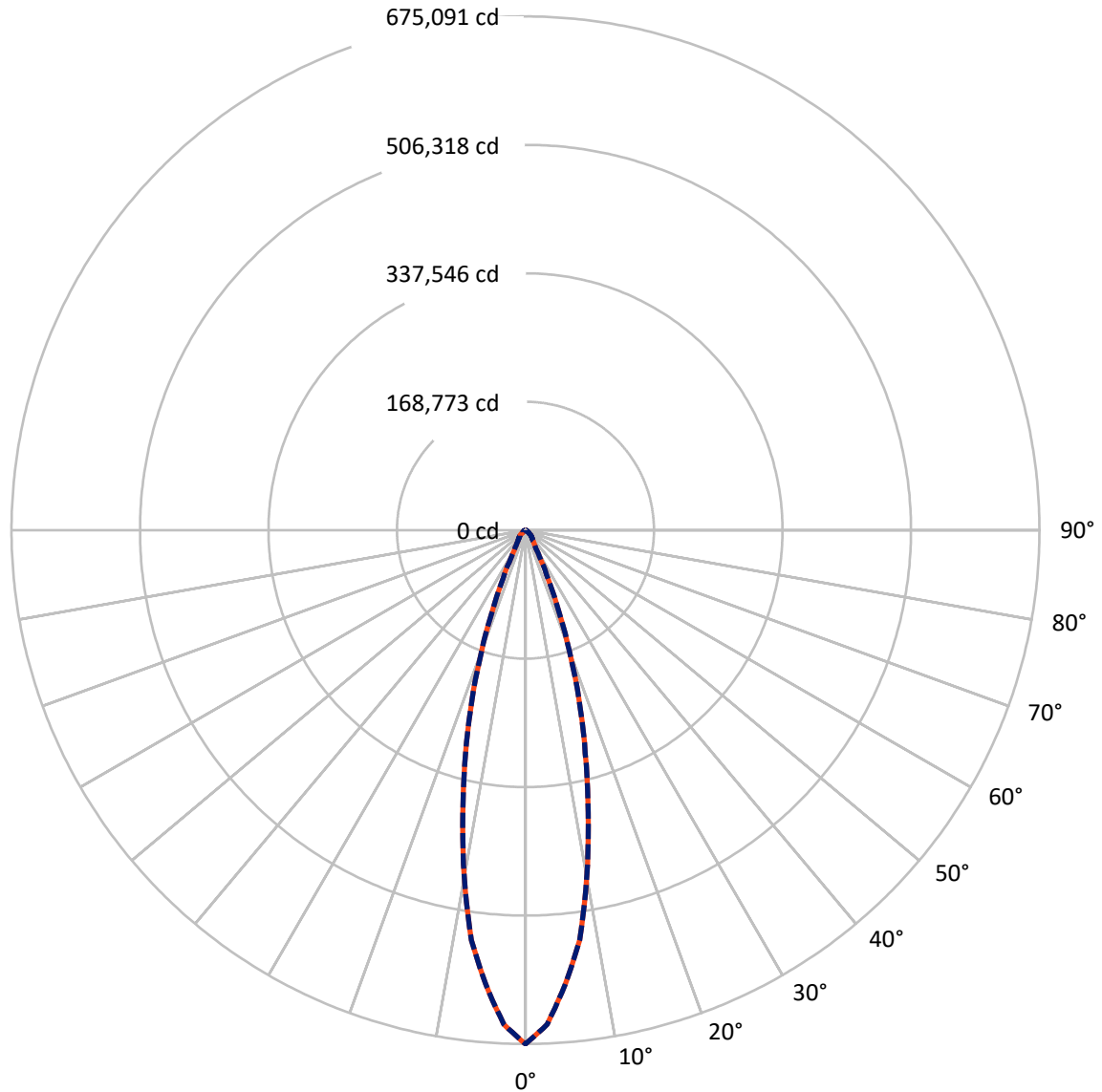
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Lumen Table

90	0.4	2.5		9.1		22.0		28.5		22.0		9.1		2.5		0.4
80	0.4	2.5		9.1		22.0		28.5		22.0		9.1		2.5		0.4
70	1.1	1.4	5.5	15.0	28.5	42.8	54.8	61.5	61.5	54.8	42.8	28.5	15.0	5.5	1.4	1.1
60		4.1	17.0	39.3	68.0	98.3	123.3	137.3	137.3	123.3	98.3	68.0	39.3	17.0	4.1	
50	3.0	9.2	32.1	69.4	117.6	185.3	260.3	303.9	303.9	260.3	185.3	117.6	69.4	32.1	9.2	3.0
40		15.1	48.1	101.8	205.0	336.3	455.9	553.4	553.4	455.9	336.3	205.0	101.8	48.1	15.1	
30	6.4	20.6	62.9	145.7	304.5	527.8	1168.3	2188.6	2188.6	1168.3	527.8	304.5	145.7	62.9	20.6	6.4
20		24.7	74.1	192.5	388.3	1102.2	4307.7	8398.5	8398.5	4307.7	1102.2	388.3	192.5	74.1	24.7	
10	7.9	26.9	80.0	217.8	458.0	2011.7	8168.4	15911.4	15911.4	8168.4	2011.7	458.0	217.8	80.0	26.9	7.9
0		26.9	80.0	217.8	458.0	2011.7	8168.4	15911.4	15911.4	8168.4	2011.7	458.0	217.8	80.0	26.9	
-10	6.4	24.7	74.1	192.5	388.3	1102.2	4307.7	8398.5	8398.5	4307.7	1102.2	388.3	192.5	74.1	24.7	6.4
-20		20.6	62.9	145.7	304.5	527.8	1168.3	2188.6	2188.6	1168.3	527.8	304.5	145.7	62.9	20.6	
-30	3.0	15.1	48.1	101.8	205.0	336.3	455.9	553.4	553.4	455.9	336.3	205.0	101.8	48.1	15.1	3.0
-40		9.2	32.1	69.4	117.6	185.3	260.3	303.9	303.9	260.3	185.3	117.6	69.4	32.1	9.2	
-50	1.1	4.1	17.0	39.3	68.0	98.3	123.3	137.3	137.3	123.3	98.3	68.0	39.3	17.0	4.1	1.1
-60		1.4	5.5	15.0	28.5	42.8	54.8	61.5	61.5	54.8	42.8	28.5	15.0	5.5	1.4	
-70	0.4	2.5		9.1		22.0		28.5		22.0		9.1		2.5		0.4
-80		2.5		9.1		22.0		28.5		22.0		9.1		2.5		
-90	0.4	2.5		9.1		22.0		28.5		22.0		9.1		2.5		0.4

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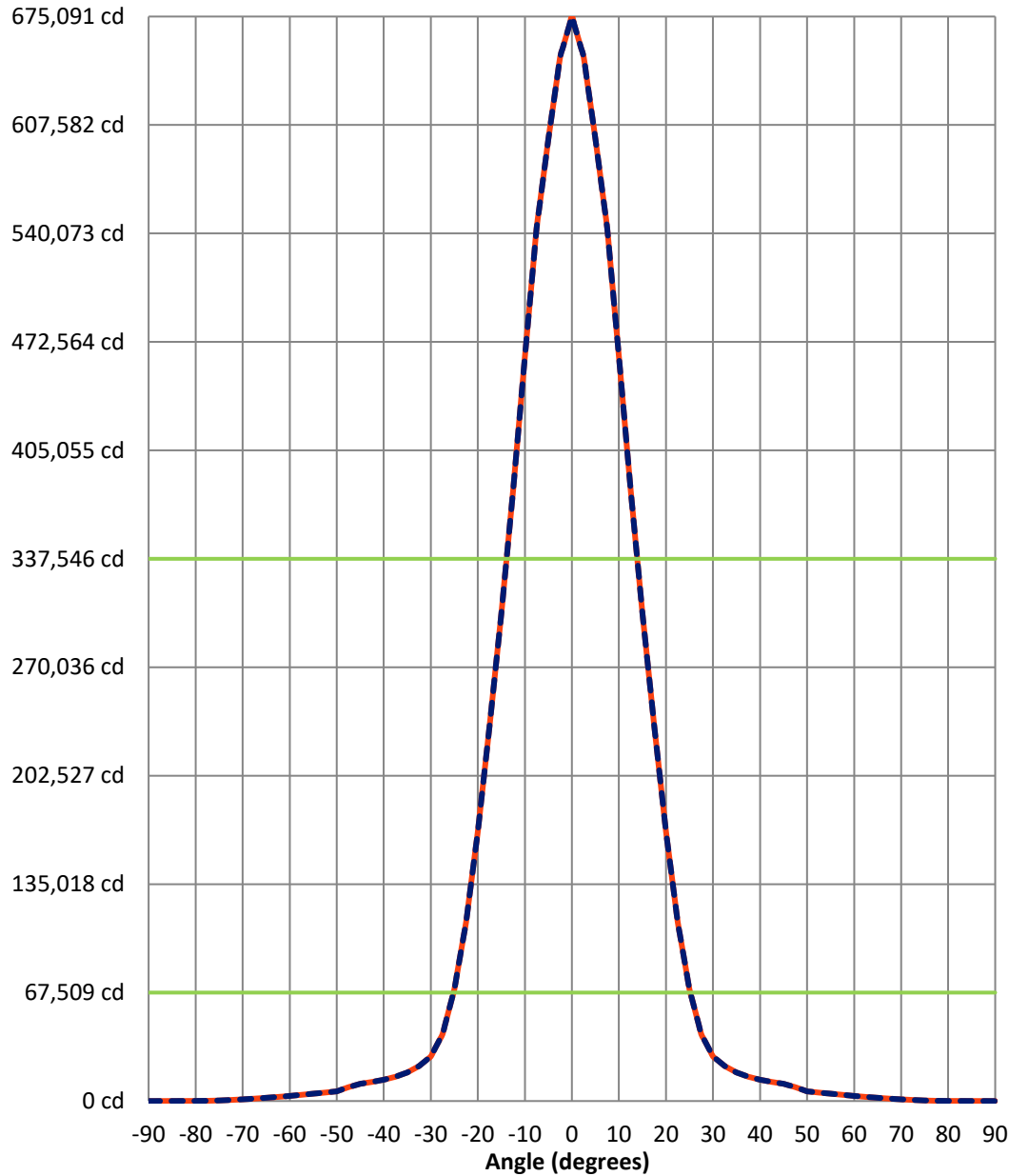
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 27.8°
 V Angle: 27.8°
 Lumens: 86573
 Efficiency: 44.0%

Field:
 H Angle: 50.4°
 V Angle: 50.4°
 Lumens: 161076.4
 Efficiency: 81.8%

Spill:
 Lumens: 35858.1
 Efficiency: 18.2%

- 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	0.9	1.8	2.8	3.7	4.6	5.5	6.4	7.2	8.1	9.0
85°	0.0	1.8	3.7	5.5	7.4	9.2	11.0	12.7	14.5	16.2	17.9
82.5°	0.0	2.8	5.5	8.3	11.0	13.7	16.4	19.1	21.6	23.4	25.2
80°	0.0	3.7	7.4	11.0	14.7	18.3	21.7	24.2	26.7	29.1	31.5
77.5°	0.0	4.6	9.2	13.7	18.3	22.3	25.5	28.6	31.7	34.8	38.3
75°	0.0	5.5	11.0	16.4	21.7	25.5	29.3	33.1	36.9	41.8	46.6
72.5°	0.0	6.4	12.7	19.1	24.2	28.6	33.1	37.8	43.6	49.3	54.9
70°	0.0	7.2	14.5	21.6	26.7	31.7	36.9	43.6	50.2	56.7	64.3
67.5°	0.0	8.1	16.2	23.4	29.1	34.8	41.8	49.3	56.7	65.4	74.0
65°	0.0	9.0	17.9	25.2	31.5	38.3	46.6	54.9	64.3	74.0	89.2
62.5°	0.0	9.8	19.6	27.0	33.9	42.2	51.4	61.2	71.9	85.9	117.6
60°	0.0	10.6	21.2	28.7	36.2	46.1	56.0	67.6	79.2	111.1	145.5
57.5°	0.0	11.4	22.3	30.4	39.2	49.9	61.3	73.9	98.1	135.7	204.8
55°	0.0	12.2	23.4	32.0	42.1	53.5	66.5	80.0	119.4	168.9	277.8
52.5°	0.0	12.9	24.5	33.6	44.9	57.2	71.7	96.9	140.2	232.8	348.8
50°	0.0	13.6	25.5	35.2	47.7	61.3	76.6	114.5	170.5	294.9	453.5
47.5°	0.0	14.3	26.5	36.8	50.3	65.3	82.8	131.4	223.8	354.9	558.9
45°	0.0	15.0	27.4	38.7	52.9	69.1	96.8	147.8	275.1	445.4	660.7
42.5°	0.0	15.6	28.4	40.5	55.3	72.8	110.2	179.4	324.4	533.2	777.3
40°	0.0	16.2	29.2	42.3	57.9	76.3	123.0	220.4	380.3	617.2	892.0
37.5°	0.0	16.8	30.0	43.9	60.6	79.6	135.2	259.5	451.1	702.2	1001.4
35°	0.0	17.4	30.8	45.5	63.1	87.0	146.7	296.5	518.2	795.1	1111.1
32.5°	0.0	17.9	31.6	47.0	65.4	96.0	163.1	331.3	581.3	882.7	1223.4
30°	0.0	18.4	32.2	48.3	67.6	104.4	190.9	368.3	640.5	964.7	1328.7
27.5°	0.0	18.8	32.9	49.6	69.7	112.2	216.7	416.1	700.1	1041.0	1426.8
25°	0.0	19.2	33.5	50.8	71.6	119.4	240.5	460.1	762.1	1118.1	1517.8
22.5°	0.0	19.6	34.0	51.9	73.3	125.9	262.1	500.3	818.8	1191.8	1612.8
20°	0.0	19.9	34.5	52.8	74.8	131.9	281.6	536.5	869.8	1258.3	1698.5
17.5°	0.0	20.2	34.9	53.7	76.2	137.1	298.9	568.6	915.2	1317.4	1774.8
15°	0.0	20.5	35.3	54.4	77.4	141.7	314.0	596.6	954.8	1369.0	1841.4
12.5°	0.0	20.7	35.6	55.1	78.4	145.5	326.8	620.5	988.4	1412.9	1898.1
10°	0.0	20.9	35.8	55.6	79.2	148.7	337.4	640.0	1016.1	1449.0	1944.7
7.5°	0.0	21.0	36.0	56.0	79.9	151.2	345.6	655.3	1037.6	1477.1	1981.1
5°	0.0	21.1	36.2	56.3	80.3	153.0	351.5	666.2	1053.1	1497.3	2007.2
2.5°	0.0	21.2	36.3	56.4	80.6	154.0	355.0	672.8	1062.4	1509.5	2022.9
0°	0.0	21.2	36.3	56.4	80.6	154.0	355.0	672.8	1062.4	1509.5	2022.9
-2.5°	0.0	21.1	36.2	56.3	80.3	153.0	351.5	666.2	1053.1	1497.3	2007.2
-5°	0.0	21.0	36.0	56.0	79.9	151.2	345.6	655.3	1037.6	1477.1	1981.1
-7.5°	0.0	20.9	35.8	55.6	79.2	148.7	337.4	640.0	1016.1	1449.0	1944.7
-10°	0.0	20.7	35.6	55.1	78.4	145.5	326.8	620.5	988.4	1412.9	1898.1
-12.5°	0.0	20.5	35.3	54.4	77.4	141.7	314.0	596.6	954.8	1369.0	1841.4
-15°	0.0	20.2	34.9	53.7	76.2	137.1	298.9	568.6	915.2	1317.4	1774.8
-17.5°	0.0	19.9	34.5	52.8	74.8	131.9	281.6	536.5	869.8	1258.3	1698.5
-20°	0.0	19.9	34.5	52.8	74.8	131.9	281.6	536.5	869.8	1258.3	1698.5



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 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3S-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	19.6	34.0	51.9	73.3	125.9	262.1	500.3	818.8	1191.8	1612.8
-25°	0.0	19.2	33.5	50.8	71.6	119.4	240.5	460.1	762.1	1118.1	1517.8
-27.5°	0.0	18.8	32.9	49.6	69.7	112.2	216.7	416.1	700.1	1041.0	1426.8
-30°	0.0	18.4	32.2	48.3	67.6	104.4	190.9	368.3	640.5	964.7	1328.7
-32.5°	0.0	17.9	31.6	47.0	65.4	96.0	163.1	331.3	581.3	882.7	1223.4
-35°	0.0	17.4	30.8	45.5	63.1	87.0	146.7	296.5	518.2	795.1	1111.1
-37.5°	0.0	16.8	30.0	43.9	60.6	79.6	135.2	259.5	451.1	702.2	1001.4
-40°	0.0	16.2	29.2	42.3	57.9	76.3	123.0	220.4	380.3	617.2	892.0
-42.5°	0.0	15.6	28.4	40.5	55.3	72.8	110.2	179.4	324.4	533.2	777.3
-45°	0.0	15.0	27.4	38.7	52.9	69.1	96.8	147.8	275.1	445.4	660.7
-47.5°	0.0	14.3	26.5	36.8	50.3	65.3	82.8	131.4	223.8	354.9	558.9
-50°	0.0	13.6	25.5	35.2	47.7	61.3	76.6	114.5	170.5	294.9	453.5
-52.5°	0.0	12.9	24.5	33.6	44.9	57.2	71.7	96.9	140.2	232.8	348.8
-55°	0.0	12.2	23.4	32.0	42.1	53.5	66.5	80.0	119.4	168.9	277.8
-57.5°	0.0	11.4	22.3	30.4	39.2	49.9	61.3	73.9	98.1	135.7	204.8
-60°	0.0	10.6	21.2	28.7	36.2	46.1	56.0	67.6	79.2	111.1	145.5
-62.5°	0.0	9.8	19.6	27.0	33.9	42.2	51.4	61.2	71.9	85.9	117.6
-65°	0.0	9.0	17.9	25.2	31.5	38.3	46.6	54.9	64.3	74.0	89.2
-67.5°	0.0	8.1	16.2	23.4	29.1	34.8	41.8	49.3	56.7	65.4	74.0
-70°	0.0	7.2	14.5	21.6	26.7	31.7	36.9	43.6	50.2	56.7	64.3
-72.5°	0.0	6.4	12.7	19.1	24.2	28.6	33.1	37.8	43.6	49.3	54.9
-75°	0.0	5.5	11.0	16.4	21.7	25.5	29.3	33.1	36.9	41.8	46.6
-77.5°	0.0	4.6	9.2	13.7	18.3	22.3	25.5	28.6	31.7	34.8	38.3
-80°	0.0	3.7	7.4	11.0	14.7	18.3	21.7	24.2	26.7	29.1	31.5
-82.5°	0.0	2.8	5.5	8.3	11.0	13.7	16.4	19.1	21.6	23.4	25.2
-85°	0.0	1.8	3.7	5.5	7.4	9.2	11.0	12.7	14.5	16.2	17.9
-87.5°	0.0	0.9	1.8	2.8	3.7	4.6	5.5	6.4	7.2	8.1	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



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 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3S-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°	9.8	10.6	11.4	12.2	12.9	13.6	14.3	15.0	15.6	16.2	16.8
85°	19.6	21.2	22.3	23.4	24.5	25.5	26.5	27.4	28.4	29.2	30.0
82.5°	27.0	28.7	30.4	32.0	33.6	35.2	36.8	38.7	40.5	42.3	43.9
80°	33.9	36.2	39.2	42.1	44.9	47.7	50.3	52.9	55.3	57.9	60.6
77.5°	42.2	46.1	49.9	53.5	57.2	61.3	65.3	69.1	72.8	76.3	79.6
75°	51.4	56.0	61.3	66.5	71.7	76.6	82.8	96.8	110.2	123.0	135.2
72.5°	61.2	67.6	73.9	80.0	96.9	114.5	131.4	147.8	179.4	220.4	259.5
70°	71.9	79.2	98.1	119.4	140.2	170.5	223.8	275.1	324.4	380.3	451.1
67.5°	85.9	111.1	135.7	168.9	232.8	294.9	354.9	445.4	533.2	617.2	702.2
65°	117.6	145.5	204.8	277.8	348.8	453.5	558.9	660.7	777.3	892.0	1001.4
62.5°	148.8	222.9	304.9	401.8	525.2	645.1	780.7	918.2	1050.4	1193.6	1332.4
60°	222.9	314.0	430.7	568.6	709.5	869.8	1025.3	1191.8	1357.9	1517.8	1692.7
57.5°	304.9	430.7	583.1	745.2	923.7	1102.1	1295.6	1482.9	1685.8	1885.1	2077.9
55°	401.8	568.6	745.2	941.7	1143.7	1358.4	1575.1	1807.3	2031.7	2257.6	2473.8
52.5°	525.2	709.5	923.7	1143.7	1379.5	1623.8	1880.9	2135.2	2387.7	2639.5	2904.2
50°	645.1	869.8	1102.1	1358.4	1623.8	1905.5	2187.2	2466.5	2759.8	3055.7	3365.3
47.5°	780.7	1025.3	1295.6	1575.1	1880.9	2187.2	2492.9	2820.3	3147.5	3508.4	3860.3
45°	918.2	1191.8	1482.9	1807.3	2135.2	2466.5	2820.3	3178.3	3580.5	3969.6	4343.8
42.5°	1050.4	1357.9	1685.8	2031.7	2387.7	2759.8	3147.5	3580.5	4006.2	4418.1	4806.9
40°	1193.6	1517.8	1885.1	2257.6	2639.5	3055.7	3508.4	3969.6	4418.1	4843.3	5248.1
37.5°	1332.4	1692.7	2077.9	2473.8	2904.2	3365.3	3860.3	4343.8	4806.9	5248.1	5737.4
35°	1464.2	1858.9	2267.8	2695.1	3156.8	3679.6	4196.3	4698.2	5174.0	5693.7	6598.8
32.5°	1599.8	2016.1	2447.5	2916.8	3430.7	3978.2	4516.2	5027.0	5563.6	6302.3	8118.7
30°	1734.0	2170.1	2623.3	3125.5	3692.3	4259.6	4809.9	5349.4	5947.2	7665.2	9391.5
27.5°	1858.9	2314.3	2802.4	3342.9	3937.0	4523.6	5082.9	5686.9	6919.7	8893.5	10503.8
25°	1974.4	2447.5	2968.2	3552.1	4163.6	4761.8	5347.6	6001.9	8046.2	9870.0	11188.0
22.5°	2082.4	2569.9	3120.1	3744.1	4371.8	4978.5	5617.2	6865.5	9002.6	10757.4	11730.0
20°	2182.3	2695.1	3270.1	3917.9	4560.8	5175.5	5862.7	7748.5	9772.9	11219.8	12286.7
17.5°	2271.2	2806.7	3412.0	4072.8	4724.1	5364.4	6166.0	8541.5	10466.1	11636.9	12817.9
15°	2348.9	2904.2	3536.1	4208.4	4866.2	5542.4	6809.7	9124.6	10925.2	12024.7	13293.6
12.5°	2415.0	2987.3	3642.0	4324.1	4987.7	5694.7	7361.1	9608.8	11218.0	12399.4	13843.3
10°	2469.4	3055.7	3729.2	4419.6	5087.9	5820.5	7817.2	10009.8	11460.8	12710.7	14301.1
7.5°	2512.0	3109.2	3797.4	4494.3	5166.4	5919.1	8174.9	10324.7	11651.8	12955.9	14662.4
5°	2542.5	3147.5	3846.3	4547.9	5222.7	5990.0	8432.2	10551.4	11789.3	13132.8	14923.3
2.5°	2560.8	3170.6	3875.8	4580.1	5256.7	6032.6	8587.2	10688.0	11872.3	13239.6	15081.1
0°	2566.9	3178.3	3885.6	4590.9	5268.0	6046.9	8639.0	10733.7	11900.1	13275.3	15133.9
-2.5°	2560.8	3170.6	3875.8	4580.1	5256.7	6032.6	8587.2	10688.0	11872.3	13239.6	15081.1
-5°	2542.5	3147.5	3846.3	4547.9	5222.7	5990.0	8432.2	10551.4	11789.3	13132.8	14923.3
-7.5°	2512.0	3109.2	3797.4	4494.3	5166.4	5919.1	8174.9	10324.7	11651.8	12955.9	14662.4
-10°	2469.4	3055.7	3729.2	4419.6	5087.9	5820.5	7817.2	10009.8	11460.8	12710.7	14301.1
-12.5°	2415.0	2987.3	3642.0	4324.1	4987.7	5694.7	7361.1	9608.8	11218.0	12399.4	13843.3
-15°	2348.9	2904.2	3536.1	4208.4	4866.2	5542.4	6809.7	9124.6	10925.2	12024.7	13293.6
-17.5°	2271.2	2806.7	3412.0	4072.8	4724.1	5364.4	6166.0	8541.5	10466.1	11636.9	12817.9
-20°	2182.3	2695.1	3270.1	3917.9	4560.8	5175.5	5862.7	7748.5	9772.9	11219.8	12286.7



REPORT NUMBER: P699862 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3S-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2082.4	2569.9	3120.1	3744.1	4371.8	4978.5	5617.2	6865.5	9002.6	10757.4	11730.0
-25°	1974.4	2447.5	2968.2	3552.1	4163.6	4761.8	5347.6	6001.9	8046.2	9870.0	11188.0
-27.5°	1858.9	2314.3	2802.4	3342.9	3937.0	4523.6	5082.9	5686.9	6919.7	8893.5	10503.8
-30°	1734.0	2170.1	2623.3	3125.5	3692.3	4259.6	4809.9	5349.4	5947.2	7665.2	9391.5
-32.5°	1599.8	2016.1	2447.5	2916.8	3430.7	3978.2	4516.2	5027.0	5563.6	6302.3	8118.7
-35°	1464.2	1858.9	2267.8	2695.1	3156.8	3679.6	4196.3	4698.2	5174.0	5693.7	6598.8
-37.5°	1332.4	1692.7	2077.9	2473.8	2904.2	3365.3	3860.3	4343.8	4806.9	5248.1	5737.4
-40°	1193.6	1517.8	1885.1	2257.6	2639.5	3055.7	3508.4	3969.6	4418.1	4843.3	5248.1
-42.5°	1050.4	1357.9	1685.8	2031.7	2387.7	2759.8	3147.5	3580.5	4006.2	4418.1	4806.9
-45°	918.2	1191.8	1482.9	1807.3	2135.2	2466.5	2820.3	3178.3	3580.5	3969.6	4343.8
-47.5°	780.7	1025.3	1295.6	1575.1	1880.9	2187.2	2492.9	2820.3	3147.5	3508.4	3860.3
-50°	645.1	869.8	1102.1	1358.4	1623.8	1905.5	2187.2	2466.5	2759.8	3055.7	3365.3
-52.5°	525.2	709.5	923.7	1143.7	1379.5	1623.8	1880.9	2135.2	2387.7	2639.5	2904.2
-55°	401.8	568.6	745.2	941.7	1143.7	1358.4	1575.1	1807.3	2031.7	2257.6	2473.8
-57.5°	304.9	430.7	583.1	745.2	923.7	1102.1	1295.6	1482.9	1685.8	1885.1	2077.9
-60°	222.9	314.0	430.7	568.6	709.5	869.8	1025.3	1191.8	1357.9	1517.8	1692.7
-62.5°	148.8	222.9	304.9	401.8	525.2	645.1	780.7	918.2	1050.4	1193.6	1332.4
-65°	117.6	145.5	204.8	277.8	348.8	453.5	558.9	660.7	777.3	892.0	1001.4
-67.5°	85.9	111.1	135.7	168.9	232.8	294.9	354.9	445.4	533.2	617.2	702.2
-70°	71.9	79.2	98.1	119.4	140.2	170.5	223.8	275.1	324.4	380.3	451.1
-72.5°	61.2	67.6	73.9	80.0	96.9	114.5	131.4	147.8	179.4	220.4	259.5
-75°	51.4	56.0	61.3	66.5	71.7	76.6	82.8	96.8	110.2	123.0	135.2
-77.5°	42.2	46.1	49.9	53.5	57.2	61.3	65.3	69.1	72.8	76.3	79.6
-80°	33.9	36.2	39.2	42.1	44.9	47.7	50.3	52.9	55.3	57.9	60.6
-82.5°	27.0	28.7	30.4	32.0	33.6	35.2	36.8	38.7	40.5	42.3	43.9
-85°	19.6	21.2	22.3	23.4	24.5	25.5	26.5	27.4	28.4	29.2	30.0
-87.5°	9.8	10.6	11.4	12.2	12.9	13.6	14.3	15.0	15.6	16.2	16.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699862 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3S-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°	17.4	17.9	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.7	20.9
85°	30.8	31.6	32.2	32.9	33.5	34.0	34.5	34.9	35.3	35.6	35.8
82.5°	45.5	47.0	48.3	49.6	50.8	51.9	52.8	53.7	54.4	55.1	55.6
80°	63.1	65.4	67.6	69.7	71.6	73.3	74.8	76.2	77.4	78.4	79.2
77.5°	87.0	96.0	104.4	112.2	119.4	125.9	131.9	137.1	141.7	145.5	148.7
75°	146.7	163.1	190.9	216.7	240.5	262.1	281.6	298.9	314.0	326.8	337.4
72.5°	296.5	331.3	368.3	416.1	460.1	500.3	536.5	568.6	596.6	620.5	640.0
70°	518.2	581.3	640.5	700.1	762.1	818.8	869.8	915.2	954.8	988.4	1016.1
67.5°	795.1	882.7	964.7	1041.0	1118.1	1191.8	1258.3	1317.4	1369.0	1412.9	1449.0
65°	1111.1	1223.4	1328.7	1426.8	1517.8	1612.8	1698.5	1774.8	1841.4	1898.1	1944.7
62.5°	1464.2	1599.8	1734.0	1858.9	1974.4	2082.4	2182.3	2271.2	2348.9	2415.0	2469.4
60°	1858.9	2016.1	2170.1	2314.3	2447.5	2569.9	2695.1	2806.7	2904.2	2987.3	3055.7
57.5°	2267.8	2447.5	2623.3	2802.4	2968.2	3120.1	3270.1	3412.0	3536.1	3642.0	3729.2
55°	2695.1	2916.8	3125.5	3342.9	3552.1	3744.1	3917.9	4072.8	4208.4	4324.1	4419.6
52.5°	3156.8	3430.7	3692.3	3937.0	4163.6	4371.8	4560.8	4724.1	4866.2	4987.7	5087.9
50°	3679.6	3978.2	4259.6	4523.6	4761.8	4978.5	5175.5	5364.4	5542.4	5694.7	5820.5
47.5°	4196.3	4516.2	4809.9	5082.9	5347.6	5617.2	5862.7	6166.0	6809.7	7361.1	7817.2
45°	4698.2	5027.0	5349.4	5686.9	6001.9	6865.5	7748.5	8541.5	9124.6	9608.8	10009.8
42.5°	5174.0	5563.6	5947.2	6919.7	8046.2	9002.6	9772.9	10466.1	10925.2	11218.0	11460.8
40°	5693.7	6302.3	7665.2	8893.5	9870.0	10757.4	11219.8	11636.9	12024.7	12399.4	12710.7
37.5°	6598.8	8118.7	9391.5	10503.8	11188.0	11730.0	12286.7	12817.9	13293.6	13843.3	14301.1
35°	8271.0	9643.4	10820.8	11481.1	12140.3	12825.7	13521.8	14296.9	14986.4	15777.3	16490.8
32.5°	9643.4	10893.0	11629.4	12409.4	13193.4	14157.5	15076.3	16249.0	17318.2	18473.1	19638.6
30°	10820.8	11629.4	12499.9	13416.7	14546.7	15814.7	17228.3	18883.6	20619.7	22313.2	24220.3
27.5°	11481.1	12409.4	13416.7	14677.7	16202.7	17847.6	20122.2	22431.0	25251.9	27726.3	32585.0
25°	12140.3	13193.4	14546.7	16202.7	18151.3	20753.6	23902.3	27283.8	33826.6	40133.0	49359.9
22.5°	12825.7	14157.5	15814.7	17847.6	20753.6	24399.7	29103.9	37619.1	49162.2	63001.8	77575.7
20°	13521.8	15076.3	17228.3	20122.2	23902.3	29103.9	38905.4	54581.1	72578.7	95481.2	116607.6
17.5°	14296.9	16249.0	18883.6	22431.0	27283.8	37619.1	54581.1	76956.3	104764.2	136411.6	166069.7
15°	14986.4	17318.2	20619.7	25251.9	33826.6	49162.2	72578.7	104764.2	143204.4	182755.4	221470.8
12.5°	15777.3	18473.1	22313.2	27726.3	40133.0	63001.8	95481.2	136411.6	182755.4	230873.9	276752.2
10°	16490.8	19638.6	24220.3	32585.0	49359.9	77575.7	116607.6	166069.7	221470.8	276752.2	331153.1
7.5°	17055.2	20563.0	25738.1	36479.8	57982.8	92012.5	138342.2	194353.1	255139.2	317525.3	380894.0
5°	17463.6	21233.4	26841.9	39322.1	64303.2	102655.8	154489.8	215808.7	281351.0	351207.7	422229.4
2.5°	17710.8	21639.9	27512.4	41052.8	68164.2	109185.3	164453.8	229156.9	297854.7	372704.0	452382.5
0°	17793.6	21776.1	27737.3	41634.1	69463.2	111387.0	167824.1	233692.2	303500.5	380189.2	463218.4
-2.5°	17710.8	21639.9	27512.4	41052.8	68164.2	109185.3	164453.8	229156.9	297854.7	372704.0	452382.5
-5°	17463.6	21233.4	26841.9	39322.1	64303.2	102655.8	154489.8	215808.7	281351.0	351207.7	422229.4
-7.5°	17055.2	20563.0	25738.1	36479.8	57982.8	92012.5	138342.2	194353.1	255139.2	317525.3	380894.0
-10°	16490.8	19638.6	24220.3	32585.0	49359.9	77575.7	116607.6	166069.7	221470.8	276752.2	331153.1
-12.5°	15777.3	18473.1	22313.2	27726.3	40133.0	63001.8	95481.2	136411.6	182755.4	230873.9	276752.2
-15°	14986.4	17318.2	20619.7	25251.9	33826.6	49162.2	72578.7	104764.2	143204.4	182755.4	221470.8
-17.5°	14296.9	16249.0	18883.6	22431.0	27283.8	37619.1	54581.1	76956.3	104764.2	136411.6	166069.7
-20°	13521.8	15076.3	17228.3	20122.2	23902.3	29103.9	38905.4	54581.1	72578.7	95481.2	116607.6



REPORT NUMBER: P699862 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3S-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	12825.7	14157.5	15814.7	17847.6	20753.6	24399.7	29103.9	37619.1	49162.2	63001.8	77575.7
-25°	12140.3	13193.4	14546.7	16202.7	18151.3	20753.6	23902.3	27283.8	33826.6	40133.0	49359.9
-27.5°	11481.1	12409.4	13416.7	14677.7	16202.7	17847.6	20122.2	22431.0	25251.9	27726.3	32585.0
-30°	10820.8	11629.4	12499.9	13416.7	14546.7	15814.7	17228.3	18883.6	20619.7	22313.2	24220.3
-32.5°	9643.4	10893.0	11629.4	12409.4	13193.4	14157.5	15076.3	16249.0	17318.2	18473.1	19638.6
-35°	8271.0	9643.4	10820.8	11481.1	12140.3	12825.7	13521.8	14296.9	14986.4	15777.3	16490.8
-37.5°	6598.8	8118.7	9391.5	10503.8	11188.0	11730.0	12286.7	12817.9	13293.6	13843.3	14301.1
-40°	5693.7	6302.3	7665.2	8893.5	9870.0	10757.4	11219.8	11636.9	12024.7	12399.4	12710.7
-42.5°	5174.0	5563.6	5947.2	6919.7	8046.2	9002.6	9772.9	10466.1	10925.2	11218.0	11460.8
-45°	4698.2	5027.0	5349.4	5686.9	6001.9	6865.5	7748.5	8541.5	9124.6	9608.8	10009.8
-47.5°	4196.3	4516.2	4809.9	5082.9	5347.6	5617.2	5862.7	6166.0	6809.7	7361.1	7817.2
-50°	3679.6	3978.2	4259.6	4523.6	4761.8	4978.5	5175.5	5364.4	5542.4	5694.7	5820.5
-52.5°	3156.8	3430.7	3692.3	3937.0	4163.6	4371.8	4560.8	4724.1	4866.2	4987.7	5087.9
-55°	2695.1	2916.8	3125.5	3342.9	3552.1	3744.1	3917.9	4072.8	4208.4	4324.1	4419.6
-57.5°	2267.8	2447.5	2623.3	2802.4	2968.2	3120.1	3270.1	3412.0	3536.1	3642.0	3729.2
-60°	1858.9	2016.1	2170.1	2314.3	2447.5	2569.9	2695.1	2806.7	2904.2	2987.3	3055.7
-62.5°	1464.2	1599.8	1734.0	1858.9	1974.4	2082.4	2182.3	2271.2	2348.9	2415.0	2469.4
-65°	1111.1	1223.4	1328.7	1426.8	1517.8	1612.8	1698.5	1774.8	1841.4	1898.1	1944.7
-67.5°	795.1	882.7	964.7	1041.0	1118.1	1191.8	1258.3	1317.4	1369.0	1412.9	1449.0
-70°	518.2	581.3	640.5	700.1	762.1	818.8	869.8	915.2	954.8	988.4	1016.1
-72.5°	296.5	331.3	368.3	416.1	460.1	500.3	536.5	568.6	596.6	620.5	640.0
-75°	146.7	163.1	190.9	216.7	240.5	262.1	281.6	298.9	314.0	326.8	337.4
-77.5°	87.0	96.0	104.4	112.2	119.4	125.9	131.9	137.1	141.7	145.5	148.7
-80°	63.1	65.4	67.6	69.7	71.6	73.3	74.8	76.2	77.4	78.4	79.2
-82.5°	45.5	47.0	48.3	49.6	50.8	51.9	52.8	53.7	54.4	55.1	55.6
-85°	30.8	31.6	32.2	32.9	33.5	34.0	34.5	34.9	35.3	35.6	35.8
-87.5°	17.4	17.9	18.4	18.8	19.2	19.6	19.9	20.2	20.5	20.7	20.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699862 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3S-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°	21.0	21.1	21.2	21.2	21.2	21.1	21.0	20.9	20.7	20.5	20.2
85°	36.0	36.2	36.3	36.3	36.3	36.2	36.0	35.8	35.6	35.3	34.9
82.5°	56.0	56.3	56.4	56.5	56.4	56.3	56.0	55.6	55.1	54.4	53.7
80°	79.9	80.3	80.6	80.7	80.6	80.3	79.9	79.2	78.4	77.4	76.2
77.5°	151.2	153.0	154.0	154.4	154.0	153.0	151.2	148.7	145.5	141.7	137.1
75°	345.6	351.5	355.0	356.2	355.0	351.5	345.6	337.4	326.8	314.0	298.9
72.5°	655.3	666.2	672.8	675.0	672.8	666.2	655.3	640.0	620.5	596.6	568.6
70°	1037.6	1053.1	1062.4	1065.5	1062.4	1053.1	1037.6	1016.1	988.4	954.8	915.2
67.5°	1477.1	1497.3	1509.5	1513.5	1509.5	1497.3	1477.1	1449.0	1412.9	1369.0	1317.4
65°	1981.1	2007.2	2022.9	2028.1	2022.9	2007.2	1981.1	1944.7	1898.1	1841.4	1774.8
62.5°	2512.0	2542.5	2560.8	2566.9	2560.8	2542.5	2512.0	2469.4	2415.0	2348.9	2271.2
60°	3109.2	3147.5	3170.6	3178.3	3170.6	3147.5	3109.2	3055.7	2987.3	2904.2	2806.7
57.5°	3797.4	3846.3	3875.8	3885.6	3875.8	3846.3	3797.4	3729.2	3642.0	3536.1	3412.0
55°	4494.3	4547.9	4580.1	4590.9	4580.1	4547.9	4494.3	4419.6	4324.1	4208.4	4072.8
52.5°	5166.4	5222.7	5256.7	5268.0	5256.7	5222.7	5166.4	5087.9	4987.7	4866.2	4724.1
50°	5919.1	5990.0	6032.6	6046.9	6032.6	5990.0	5919.1	5820.5	5694.7	5542.4	5364.4
47.5°	8174.9	8432.2	8587.2	8639.0	8587.2	8432.2	8174.9	7817.2	7361.1	6809.7	6166.0
45°	10324.7	10551.4	10688.0	10733.7	10688.0	10551.4	10324.7	10009.8	9608.8	9124.6	8541.5
42.5°	11651.8	11789.3	11872.3	11900.1	11872.3	11789.3	11651.8	11460.8	11218.0	10925.2	10466.1
40°	12955.9	13132.8	13239.6	13275.3	13239.6	13132.8	12955.9	12710.7	12399.4	12024.7	11636.9
37.5°	14662.4	14923.3	15081.1	15133.9	15081.1	14923.3	14662.4	14301.1	13843.3	13293.6	12817.9
35°	17055.2	17463.6	17710.8	17793.6	17710.8	17463.6	17055.2	16490.8	15777.3	14986.4	14296.9
32.5°	20563.0	21233.4	21639.9	21776.1	21639.9	21233.4	20563.0	19638.6	18473.1	17318.2	16249.0
30°	25738.1	26841.9	27512.4	27737.3	27512.4	26841.9	25738.1	24220.3	22313.2	20619.7	18883.6
27.5°	36479.8	39322.1	41052.8	41634.1	41052.8	39322.1	36479.8	32585.0	27726.3	25251.9	22431.0
25°	57982.8	64303.2	68164.2	69463.2	68164.2	64303.2	57982.8	49359.9	40133.0	33826.6	27283.8
22.5°	92012.5	102655.8	109185.3	111387.0	109185.3	102655.8	92012.5	77575.7	63001.8	49162.2	37619.1
20°	138342.2	154489.8	164453.8	167824.1	164453.8	154489.8	138342.2	116607.6	95481.2	72578.7	54581.1
17.5°	194353.1	215808.7	229156.9	233692.2	229156.9	215808.7	194353.1	166069.7	136411.6	104764.2	76956.3
15°	255139.2	281351.0	297854.7	303500.5	297854.7	281351.0	255139.2	221470.8	182755.4	143204.4	104764.2
12.5°	317525.3	351207.7	372704.0	380189.2	372704.0	351207.7	317525.3	276752.2	230873.9	182755.4	136411.6
10°	380894.0	422229.4	452382.5	463218.4	452382.5	422229.4	380894.0	331153.1	276752.2	221470.8	166069.7
7.5°	442184.8	499502.8	533685.9	543522.2	533685.9	499502.8	442184.8	380894.0	317525.3	255139.2	194353.1
5°	499502.8	554089.7	586466.6	598905.9	586466.6	554089.7	499502.8	422229.4	351207.7	281351.0	215808.7
2.5°	533685.9	586466.6	629799.7	649996.4	629799.7	586466.6	533685.9	452382.5	372704.0	297854.7	229156.9
0°	543522.2	598905.9	649996.4	675091.1	649996.4	598905.9	543522.2	463218.4	380189.2	303500.5	233692.2
-2.5°	533685.9	586466.6	629799.7	649996.4	629799.7	586466.6	533685.9	452382.5	372704.0	297854.7	229156.9
-5°	499502.8	554089.7	586466.6	598905.9	586466.6	554089.7	499502.8	422229.4	351207.7	281351.0	215808.7
-7.5°	442184.8	499502.8	533685.9	543522.2	533685.9	499502.8	442184.8	380894.0	317525.3	255139.2	194353.1
-10°	380894.0	422229.4	452382.5	463218.4	452382.5	422229.4	380894.0	331153.1	276752.2	221470.8	166069.7
-12.5°	317525.3	351207.7	372704.0	380189.2	372704.0	351207.7	317525.3	276752.2	230873.9	182755.4	136411.6
-15°	255139.2	281351.0	297854.7	303500.5	297854.7	281351.0	255139.2	221470.8	182755.4	143204.4	104764.2
-17.5°	194353.1	215808.7	229156.9	233692.2	229156.9	215808.7	194353.1	166069.7	136411.6	104764.2	76956.3
-20°	138342.2	154489.8	164453.8	167824.1	164453.8	154489.8	138342.2	116607.6	95481.2	72578.7	54581.1



REPORT NUMBER: P699862 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3S-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	92012.5	102655.8	109185.3	111387.0	109185.3	102655.8	92012.5	77575.7	63001.8	49162.2	37619.1
-25°	57982.8	64303.2	68164.2	69463.2	68164.2	64303.2	57982.8	49359.9	40133.0	33826.6	27283.8
-27.5°	36479.8	39322.1	41052.8	41634.1	41052.8	39322.1	36479.8	32585.0	27726.3	25251.9	22431.0
-30°	25738.1	26841.9	27512.4	27737.3	27512.4	26841.9	25738.1	24220.3	22313.2	20619.7	18883.6
-32.5°	20563.0	21233.4	21639.9	21776.1	21639.9	21233.4	20563.0	19638.6	18473.1	17318.2	16249.0
-35°	17055.2	17463.6	17710.8	17793.6	17710.8	17463.6	17055.2	16490.8	15777.3	14986.4	14296.9
-37.5°	14662.4	14923.3	15081.1	15133.9	15081.1	14923.3	14662.4	14301.1	13843.3	13293.6	12817.9
-40°	12955.9	13132.8	13239.6	13275.3	13239.6	13132.8	12955.9	12710.7	12399.4	12024.7	11636.9
-42.5°	11651.8	11789.3	11872.3	11900.1	11872.3	11789.3	11651.8	11460.8	11218.0	10925.2	10466.1
-45°	10324.7	10551.4	10688.0	10733.7	10688.0	10551.4	10324.7	10009.8	9608.8	9124.6	8541.5
-47.5°	8174.9	8432.2	8587.2	8639.0	8587.2	8432.2	8174.9	7817.2	7361.1	6809.7	6166.0
-50°	5919.1	5990.0	6032.6	6046.9	6032.6	5990.0	5919.1	5820.5	5694.7	5542.4	5364.4
-52.5°	5166.4	5222.7	5256.7	5268.0	5256.7	5222.7	5166.4	5087.9	4987.7	4866.2	4724.1
-55°	4494.3	4547.9	4580.1	4590.9	4580.1	4547.9	4494.3	4419.6	4324.1	4208.4	4072.8
-57.5°	3797.4	3846.3	3875.8	3885.6	3875.8	3846.3	3797.4	3729.2	3642.0	3536.1	3412.0
-60°	3109.2	3147.5	3170.6	3178.3	3170.6	3147.5	3109.2	3055.7	2987.3	2904.2	2806.7
-62.5°	2512.0	2542.5	2560.8	2566.9	2560.8	2542.5	2512.0	2469.4	2415.0	2348.9	2271.2
-65°	1981.1	2007.2	2022.9	2028.1	2022.9	2007.2	1981.1	1944.7	1898.1	1841.4	1774.8
-67.5°	1477.1	1497.3	1509.5	1513.5	1509.5	1497.3	1477.1	1449.0	1412.9	1369.0	1317.4
-70°	1037.6	1053.1	1062.4	1065.5	1062.4	1053.1	1037.6	1016.1	988.4	954.8	915.2
-72.5°	655.3	666.2	672.8	675.0	672.8	666.2	655.3	640.0	620.5	596.6	568.6
-75°	345.6	351.5	355.0	356.2	355.0	351.5	345.6	337.4	326.8	314.0	298.9
-77.5°	151.2	153.0	154.0	154.4	154.0	153.0	151.2	148.7	145.5	141.7	137.1
-80°	79.9	80.3	80.6	80.7	80.6	80.3	79.9	79.2	78.4	77.4	76.2
-82.5°	56.0	56.3	56.4	56.5	56.4	56.3	56.0	55.6	55.1	54.4	53.7
-85°	36.0	36.2	36.3	36.3	36.3	36.2	36.0	35.8	35.6	35.3	34.9
-87.5°	21.0	21.1	21.2	21.2	21.2	21.1	21.0	20.9	20.7	20.5	20.2
-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: P699862 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3S-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°	19.9	19.6	19.2	18.8	18.4	17.9	17.4	16.8	16.2	15.6	15.0
85°	34.5	34.0	33.5	32.9	32.2	31.6	30.8	30.0	29.2	28.4	27.4
82.5°	52.8	51.9	50.8	49.6	48.3	47.0	45.5	43.9	42.3	40.5	38.7
80°	74.8	73.3	71.6	69.7	67.6	65.4	63.1	60.6	57.9	55.3	52.9
77.5°	131.9	125.9	119.4	112.2	104.4	96.0	87.0	79.6	76.3	72.8	69.1
75°	281.6	262.1	240.5	216.7	190.9	163.1	146.7	135.2	123.0	110.2	96.8
72.5°	536.5	500.3	460.1	416.1	368.3	331.3	296.5	259.5	220.4	179.4	147.8
70°	869.8	818.8	762.1	700.1	640.5	581.3	518.2	451.1	380.3	324.4	275.1
67.5°	1258.3	1191.8	1118.1	1041.0	964.7	882.7	795.1	702.2	617.2	533.2	445.4
65°	1698.5	1612.8	1517.8	1426.8	1328.7	1223.4	1111.1	1001.4	892.0	777.3	660.7
62.5°	2182.3	2082.4	1974.4	1858.9	1734.0	1599.8	1464.2	1332.4	1193.6	1050.4	918.2
60°	2695.1	2569.9	2447.5	2314.3	2170.1	2016.1	1858.9	1692.7	1517.8	1357.9	1191.8
57.5°	3270.1	3120.1	2968.2	2802.4	2623.3	2447.5	2267.8	2077.9	1885.1	1685.8	1482.9
55°	3917.9	3744.1	3552.1	3342.9	3125.5	2916.8	2695.1	2473.8	2257.6	2031.7	1807.3
52.5°	4560.8	4371.8	4163.6	3937.0	3692.3	3430.7	3156.8	2904.2	2639.5	2387.7	2135.2
50°	5175.5	4978.5	4761.8	4523.6	4259.6	3978.2	3679.6	3365.3	3055.7	2759.8	2466.5
47.5°	5862.7	5617.2	5347.6	5082.9	4809.9	4516.2	4196.3	3860.3	3508.4	3147.5	2820.3
45°	7748.5	6865.5	6001.9	5686.9	5349.4	5027.0	4698.2	4343.8	3969.6	3580.5	3178.3
42.5°	9772.9	9002.6	8046.2	6919.7	5947.2	5563.6	5174.0	4806.9	4418.1	4006.2	3580.5
40°	11219.8	10757.4	9870.0	8893.5	7665.2	6302.3	5693.7	5248.1	4843.3	4418.1	3969.6
37.5°	12286.7	11730.0	11188.0	10503.8	9391.5	8118.7	6598.8	5737.4	5248.1	4806.9	4343.8
35°	13521.8	12825.7	12140.3	11481.1	10820.8	9643.4	8271.0	6598.8	5693.7	5174.0	4698.2
32.5°	15076.3	14157.5	13193.4	12409.4	11629.4	10893.0	9643.4	8118.7	6302.3	5563.6	5027.0
30°	17228.3	15814.7	14546.7	13416.7	12499.9	11629.4	10820.8	9391.5	7665.2	5947.2	5349.4
27.5°	20122.2	17847.6	16202.7	14677.7	13416.7	12409.4	11481.1	10503.8	8893.5	6919.7	5686.9
25°	23902.3	20753.6	18151.3	16202.7	14546.7	13193.4	12140.3	11188.0	9870.0	8046.2	6001.9
22.5°	29103.9	24399.7	20753.6	17847.6	15814.7	14157.5	12825.7	11730.0	10757.4	9002.6	6865.5
20°	38905.4	29103.9	23902.3	20122.2	17228.3	15076.3	13521.8	12286.7	11219.8	9772.9	7748.5
17.5°	54581.1	37619.1	27283.8	22431.0	18883.6	16249.0	14296.9	12817.9	11636.9	10466.1	8541.5
15°	72578.7	49162.2	33826.6	25251.9	20619.7	17318.2	14986.4	13293.6	12024.7	10925.2	9124.6
12.5°	95481.2	63001.8	40133.0	27726.3	22313.2	18473.1	15777.3	13843.3	12399.4	11218.0	9608.8
10°	116607.6	77575.7	49359.9	32585.0	24220.3	19638.6	16490.8	14301.1	12710.7	11460.8	10009.8
7.5°	138342.2	92012.5	57982.8	36479.8	25738.1	20563.0	17055.2	14662.4	12955.9	11651.8	10324.7
5°	154489.8	102655.8	64303.2	39322.1	26841.9	21233.4	17463.6	14923.3	13132.8	11789.3	10551.4
2.5°	164453.8	109185.3	68164.2	41052.8	27512.4	21639.9	17710.8	15081.1	13239.6	11872.3	10688.0
0°	167824.1	111387.0	69463.2	41634.1	27737.3	21776.1	17793.6	15133.9	13275.3	11900.1	10733.7
-2.5°	164453.8	109185.3	68164.2	41052.8	27512.4	21639.9	17710.8	15081.1	13239.6	11872.3	10688.0
-5°	154489.8	102655.8	64303.2	39322.1	26841.9	21233.4	17463.6	14923.3	13132.8	11789.3	10551.4
-7.5°	138342.2	92012.5	57982.8	36479.8	25738.1	20563.0	17055.2	14662.4	12955.9	11651.8	10324.7
-10°	116607.6	77575.7	49359.9	32585.0	24220.3	19638.6	16490.8	14301.1	12710.7	11460.8	10009.8
-12.5°	95481.2	63001.8	40133.0	27726.3	22313.2	18473.1	15777.3	13843.3	12399.4	11218.0	9608.8
-15°	72578.7	49162.2	33826.6	25251.9	20619.7	17318.2	14986.4	13293.6	12024.7	10925.2	9124.6
-17.5°	54581.1	37619.1	27283.8	22431.0	18883.6	16249.0	14296.9	12817.9	11636.9	10466.1	8541.5
-20°	38905.4	29103.9	23902.3	20122.2	17228.3	15076.3	13521.8	12286.7	11219.8	9772.9	7748.5



REPORT NUMBER: P699862 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3S-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	29103.9	24399.7	20753.6	17847.6	15814.7	14157.5	12825.7	11730.0	10757.4	9002.6	6865.5
-25°	23902.3	20753.6	18151.3	16202.7	14546.7	13193.4	12140.3	11188.0	9870.0	8046.2	6001.9
-27.5°	20122.2	17847.6	16202.7	14677.7	13416.7	12409.4	11481.1	10503.8	8893.5	6919.7	5686.9
-30°	17228.3	15814.7	14546.7	13416.7	12499.9	11629.4	10820.8	9391.5	7665.2	5947.2	5349.4
-32.5°	15076.3	14157.5	13193.4	12409.4	11629.4	10893.0	9643.4	8118.7	6302.3	5563.6	5027.0
-35°	13521.8	12825.7	12140.3	11481.1	10820.8	9643.4	8271.0	6598.8	5693.7	5174.0	4698.2
-37.5°	12286.7	11730.0	11188.0	10503.8	9391.5	8118.7	6598.8	5737.4	5248.1	4806.9	4343.8
-40°	11219.8	10757.4	9870.0	8893.5	7665.2	6302.3	5693.7	5248.1	4843.3	4418.1	3969.6
-42.5°	9772.9	9002.6	8046.2	6919.7	5947.2	5563.6	5174.0	4806.9	4418.1	4006.2	3580.5
-45°	7748.5	6865.5	6001.9	5686.9	5349.4	5027.0	4698.2	4343.8	3969.6	3580.5	3178.3
-47.5°	5862.7	5617.2	5347.6	5082.9	4809.9	4516.2	4196.3	3860.3	3508.4	3147.5	2820.3
-50°	5175.5	4978.5	4761.8	4523.6	4259.6	3978.2	3679.6	3365.3	3055.7	2759.8	2466.5
-52.5°	4560.8	4371.8	4163.6	3937.0	3692.3	3430.7	3156.8	2904.2	2639.5	2387.7	2135.2
-55°	3917.9	3744.1	3552.1	3342.9	3125.5	2916.8	2695.1	2473.8	2257.6	2031.7	1807.3
-57.5°	3270.1	3120.1	2968.2	2802.4	2623.3	2447.5	2267.8	2077.9	1885.1	1685.8	1482.9
-60°	2695.1	2569.9	2447.5	2314.3	2170.1	2016.1	1858.9	1692.7	1517.8	1357.9	1191.8
-62.5°	2182.3	2082.4	1974.4	1858.9	1734.0	1599.8	1464.2	1332.4	1193.6	1050.4	918.2
-65°	1698.5	1612.8	1517.8	1426.8	1328.7	1223.4	1111.1	1001.4	892.0	777.3	660.7
-67.5°	1258.3	1191.8	1118.1	1041.0	964.7	882.7	795.1	702.2	617.2	533.2	445.4
-70°	869.8	818.8	762.1	700.1	640.5	581.3	518.2	451.1	380.3	324.4	275.1
-72.5°	536.5	500.3	460.1	416.1	368.3	331.3	296.5	259.5	220.4	179.4	147.8
-75°	281.6	262.1	240.5	216.7	190.9	163.1	146.7	135.2	123.0	110.2	96.8
-77.5°	131.9	125.9	119.4	112.2	104.4	96.0	87.0	79.6	76.3	72.8	69.1
-80°	74.8	73.3	71.6	69.7	67.6	65.4	63.1	60.6	57.9	55.3	52.9
-82.5°	52.8	51.9	50.8	49.6	48.3	47.0	45.5	43.9	42.3	40.5	38.7
-85°	34.5	34.0	33.5	32.9	32.2	31.6	30.8	30.0	29.2	28.4	27.4
-87.5°	19.9	19.6	19.2	18.8	18.4	17.9	17.4	16.8	16.2	15.6	15.0
-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: P699862 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-3S-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	13.6	12.9	12.2	11.4	10.6	9.8	9.0	8.1	7.2	6.4
85°	26.5	25.5	24.5	23.4	22.3	21.2	19.6	17.9	16.2	14.5	12.7
82.5°	36.8	35.2	33.6	32.0	30.4	28.7	27.0	25.2	23.4	21.6	19.1
80°	50.3	47.7	44.9	42.1	39.2	36.2	33.9	31.5	29.1	26.7	24.2
77.5°	65.3	61.3	57.2	53.5	49.9	46.1	42.2	38.3	34.8	31.7	28.6
75°	82.8	76.6	71.7	66.5	61.3	56.0	51.4	46.6	41.8	36.9	33.1
72.5°	131.4	114.5	96.9	80.0	73.9	67.6	61.2	54.9	49.3	43.6	37.8
70°	223.8	170.5	140.2	119.4	98.1	79.2	71.9	64.3	56.7	50.2	43.6
67.5°	354.9	294.9	232.8	168.9	135.7	111.1	85.9	74.0	65.4	56.7	49.3
65°	558.9	453.5	348.8	277.8	204.8	145.5	117.6	89.2	74.0	64.3	54.9
62.5°	780.7	645.1	525.2	401.8	304.9	222.9	148.8	117.6	85.9	71.9	61.2
60°	1025.3	869.8	709.5	568.6	430.7	314.0	222.9	145.5	111.1	79.2	67.6
57.5°	1295.6	1102.1	923.7	745.2	583.1	430.7	304.9	204.8	135.7	98.1	73.9
55°	1575.1	1358.4	1143.7	941.7	745.2	568.6	401.8	277.8	168.9	119.4	80.0
52.5°	1880.9	1623.8	1379.5	1143.7	923.7	709.5	525.2	348.8	232.8	140.2	96.9
50°	2187.2	1905.5	1623.8	1358.4	1102.1	869.8	645.1	453.5	294.9	170.5	114.5
47.5°	2492.9	2187.2	1880.9	1575.1	1295.6	1025.3	780.7	558.9	354.9	223.8	131.4
45°	2820.3	2466.5	2135.2	1807.3	1482.9	1191.8	918.2	660.7	445.4	275.1	147.8
42.5°	3147.5	2759.8	2387.7	2031.7	1685.8	1357.9	1050.4	777.3	533.2	324.4	179.4
40°	3508.4	3055.7	2639.5	2257.6	1885.1	1517.8	1193.6	892.0	617.2	380.3	220.4
37.5°	3860.3	3365.3	2904.2	2473.8	2077.9	1692.7	1332.4	1001.4	702.2	451.1	259.5
35°	4196.3	3679.6	3156.8	2695.1	2267.8	1858.9	1464.2	1111.1	795.1	518.2	296.5
32.5°	4516.2	3978.2	3430.7	2916.8	2447.5	2016.1	1599.8	1223.4	882.7	581.3	331.3
30°	4809.9	4259.6	3692.3	3125.5	2623.3	2170.1	1734.0	1328.7	964.7	640.5	368.3
27.5°	5082.9	4523.6	3937.0	3342.9	2802.4	2314.3	1858.9	1426.8	1041.0	700.1	416.1
25°	5347.6	4761.8	4163.6	3552.1	2968.2	2447.5	1974.4	1517.8	1118.1	762.1	460.1
22.5°	5617.2	4978.5	4371.8	3744.1	3120.1	2569.9	2082.4	1612.8	1191.8	818.8	500.3
20°	5862.7	5175.5	4560.8	3917.9	3270.1	2695.1	2182.3	1698.5	1258.3	869.8	536.5
17.5°	6166.0	5364.4	4724.1	4072.8	3412.0	2806.7	2271.2	1774.8	1317.4	915.2	568.6
15°	6809.7	5542.4	4866.2	4208.4	3536.1	2904.2	2348.9	1841.4	1369.0	954.8	596.6
12.5°	7361.1	5694.7	4987.7	4324.1	3642.0	2987.3	2415.0	1898.1	1412.9	988.4	620.5
10°	7817.2	5820.5	5087.9	4419.6	3729.2	3055.7	2469.4	1944.7	1449.0	1016.1	640.0
7.5°	8174.9	5919.1	5166.4	4494.3	3797.4	3109.2	2512.0	1981.1	1477.1	1037.6	655.3
5°	8432.2	5990.0	5222.7	4547.9	3846.3	3147.5	2542.5	2007.2	1497.3	1053.1	666.2
2.5°	8587.2	6032.6	5256.7	4580.1	3875.8	3170.6	2560.8	2022.9	1509.5	1062.4	672.8
0°	8639.0	6046.9	5268.0	4590.9	3885.6	3178.3	2566.9	2028.1	1513.5	1065.5	675.0
-2.5°	8587.2	6032.6	5256.7	4580.1	3875.8	3170.6	2560.8	2022.9	1509.5	1062.4	672.8
-5°	8432.2	5990.0	5222.7	4547.9	3846.3	3147.5	2542.5	2007.2	1497.3	1053.1	666.2
-7.5°	8174.9	5919.1	5166.4	4494.3	3797.4	3109.2	2512.0	1981.1	1477.1	1037.6	655.3
-10°	7817.2	5820.5	5087.9	4419.6	3729.2	3055.7	2469.4	1944.7	1449.0	1016.1	640.0
-12.5°	7361.1	5694.7	4987.7	4324.1	3642.0	2987.3	2415.0	1898.1	1412.9	988.4	620.5
-15°	6809.7	5542.4	4866.2	4208.4	3536.1	2904.2	2348.9	1841.4	1369.0	954.8	596.6
-17.5°	6166.0	5364.4	4724.1	4072.8	3412.0	2806.7	2271.2	1774.8	1317.4	915.2	568.6
-20°	5862.7	5175.5	4560.8	3917.9	3270.1	2695.1	2182.3	1698.5	1258.3	869.8	536.5



REPORT NUMBER: P699862 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	5617.2	4978.5	4371.8	3744.1	3120.1	2569.9	2082.4	1612.8	1191.8	818.8	500.3
-25°	5347.6	4761.8	4163.6	3552.1	2968.2	2447.5	1974.4	1517.8	1118.1	762.1	460.1
-27.5°	5082.9	4523.6	3937.0	3342.9	2802.4	2314.3	1858.9	1426.8	1041.0	700.1	416.1
-30°	4809.9	4259.6	3692.3	3125.5	2623.3	2170.1	1734.0	1328.7	964.7	640.5	368.3
-32.5°	4516.2	3978.2	3430.7	2916.8	2447.5	2016.1	1599.8	1223.4	882.7	581.3	331.3
-35°	4196.3	3679.6	3156.8	2695.1	2267.8	1858.9	1464.2	1111.1	795.1	518.2	296.5
-37.5°	3860.3	3365.3	2904.2	2473.8	2077.9	1692.7	1332.4	1001.4	702.2	451.1	259.5
-40°	3508.4	3055.7	2639.5	2257.6	1885.1	1517.8	1193.6	892.0	617.2	380.3	220.4
-42.5°	3147.5	2759.8	2387.7	2031.7	1685.8	1357.9	1050.4	777.3	533.2	324.4	179.4
-45°	2820.3	2466.5	2135.2	1807.3	1482.9	1191.8	918.2	660.7	445.4	275.1	147.8
-47.5°	2492.9	2187.2	1880.9	1575.1	1295.6	1025.3	780.7	558.9	354.9	223.8	131.4
-50°	2187.2	1905.5	1623.8	1358.4	1102.1	869.8	645.1	453.5	294.9	170.5	114.5
-52.5°	1880.9	1623.8	1379.5	1143.7	923.7	709.5	525.2	348.8	232.8	140.2	96.9
-55°	1575.1	1358.4	1143.7	941.7	745.2	568.6	401.8	277.8	168.9	119.4	80.0
-57.5°	1295.6	1102.1	923.7	745.2	583.1	430.7	304.9	204.8	135.7	98.1	73.9
-60°	1025.3	869.8	709.5	568.6	430.7	314.0	222.9	145.5	111.1	79.2	67.6
-62.5°	780.7	645.1	525.2	401.8	304.9	222.9	148.8	117.6	85.9	71.9	61.2
-65°	558.9	453.5	348.8	277.8	204.8	145.5	117.6	89.2	74.0	64.3	54.9
-67.5°	354.9	294.9	232.8	168.9	135.7	111.1	85.9	74.0	65.4	56.7	49.3
-70°	223.8	170.5	140.2	119.4	98.1	79.2	71.9	64.3	56.7	50.2	43.6
-72.5°	131.4	114.5	96.9	80.0	73.9	67.6	61.2	54.9	49.3	43.6	37.8
-75°	82.8	76.6	71.7	66.5	61.3	56.0	51.4	46.6	41.8	36.9	33.1
-77.5°	65.3	61.3	57.2	53.5	49.9	46.1	42.2	38.3	34.8	31.7	28.6
-80°	50.3	47.7	44.9	42.1	39.2	36.2	33.9	31.5	29.1	26.7	24.2
-82.5°	36.8	35.2	33.6	32.0	30.4	28.7	27.0	25.2	23.4	21.6	19.1
-85°	26.5	25.5	24.5	23.4	22.3	21.2	19.6	17.9	16.2	14.5	12.7
-87.5°	14.3	13.6	12.9	12.2	11.4	10.6	9.8	9.0	8.1	7.2	6.4
-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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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°	5.5	4.6	3.7	2.8	1.8	0.9	0.0
85°	11.0	9.2	7.4	5.5	3.7	1.8	0.0
82.5°	16.4	13.7	11.0	8.3	5.5	2.8	0.0
80°	21.7	18.3	14.7	11.0	7.4	3.7	0.0
77.5°	25.5	22.3	18.3	13.7	9.2	4.6	0.0
75°	29.3	25.5	21.7	16.4	11.0	5.5	0.0
72.5°	33.1	28.6	24.2	19.1	12.7	6.4	0.0
70°	36.9	31.7	26.7	21.6	14.5	7.2	0.0
67.5°	41.8	34.8	29.1	23.4	16.2	8.1	0.0
65°	46.6	38.3	31.5	25.2	17.9	9.0	0.0
62.5°	51.4	42.2	33.9	27.0	19.6	9.8	0.0
60°	56.0	46.1	36.2	28.7	21.2	10.6	0.0
57.5°	61.3	49.9	39.2	30.4	22.3	11.4	0.0
55°	66.5	53.5	42.1	32.0	23.4	12.2	0.0
52.5°	71.7	57.2	44.9	33.6	24.5	12.9	0.0
50°	76.6	61.3	47.7	35.2	25.5	13.6	0.0
47.5°	82.8	65.3	50.3	36.8	26.5	14.3	0.0
45°	96.8	69.1	52.9	38.7	27.4	15.0	0.0
42.5°	110.2	72.8	55.3	40.5	28.4	15.6	0.0
40°	123.0	76.3	57.9	42.3	29.2	16.2	0.0
37.5°	135.2	79.6	60.6	43.9	30.0	16.8	0.0
35°	146.7	87.0	63.1	45.5	30.8	17.4	0.0
32.5°	163.1	96.0	65.4	47.0	31.6	17.9	0.0
30°	190.9	104.4	67.6	48.3	32.2	18.4	0.0
27.5°	216.7	112.2	69.7	49.6	32.9	18.8	0.0
25°	240.5	119.4	71.6	50.8	33.5	19.2	0.0
22.5°	262.1	125.9	73.3	51.9	34.0	19.6	0.0
20°	281.6	131.9	74.8	52.8	34.5	19.9	0.0
17.5°	298.9	137.1	76.2	53.7	34.9	20.2	0.0
15°	314.0	141.7	77.4	54.4	35.3	20.5	0.0
12.5°	326.8	145.5	78.4	55.1	35.6	20.7	0.0
10°	337.4	148.7	79.2	55.6	35.8	20.9	0.0
7.5°	345.6	151.2	79.9	56.0	36.0	21.0	0.0
5°	351.5	153.0	80.3	56.3	36.2	21.1	0.0
2.5°	355.0	154.0	80.6	56.4	36.3	21.2	0.0
0°	356.2	154.4	80.7	56.5	36.3	21.2	0.0
-2.5°	355.0	154.0	80.6	56.4	36.3	21.2	0.0
-5°	351.5	153.0	80.3	56.3	36.2	21.1	0.0
-7.5°	345.6	151.2	79.9	56.0	36.0	21.0	0.0
-10°	337.4	148.7	79.2	55.6	35.8	20.9	0.0
-12.5°	326.8	145.5	78.4	55.1	35.6	20.7	0.0
-15°	314.0	141.7	77.4	54.4	35.3	20.5	0.0
-17.5°	298.9	137.1	76.2	53.7	34.9	20.2	0.0
-20°	281.6	131.9	74.8	52.8	34.5	19.9	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	262.1	125.9	73.3	51.9	34.0	19.6	0.0
-25°	240.5	119.4	71.6	50.8	33.5	19.2	0.0
-27.5°	216.7	112.2	69.7	49.6	32.9	18.8	0.0
-30°	190.9	104.4	67.6	48.3	32.2	18.4	0.0
-32.5°	163.1	96.0	65.4	47.0	31.6	17.9	0.0
-35°	146.7	87.0	63.1	45.5	30.8	17.4	0.0
-37.5°	135.2	79.6	60.6	43.9	30.0	16.8	0.0
-40°	123.0	76.3	57.9	42.3	29.2	16.2	0.0
-42.5°	110.2	72.8	55.3	40.5	28.4	15.6	0.0
-45°	96.8	69.1	52.9	38.7	27.4	15.0	0.0
-47.5°	82.8	65.3	50.3	36.8	26.5	14.3	0.0
-50°	76.6	61.3	47.7	35.2	25.5	13.6	0.0
-52.5°	71.7	57.2	44.9	33.6	24.5	12.9	0.0
-55°	66.5	53.5	42.1	32.0	23.4	12.2	0.0
-57.5°	61.3	49.9	39.2	30.4	22.3	11.4	0.0
-60°	56.0	46.1	36.2	28.7	21.2	10.6	0.0
-62.5°	51.4	42.2	33.9	27.0	19.6	9.8	0.0
-65°	46.6	38.3	31.5	25.2	17.9	9.0	0.0
-67.5°	41.8	34.8	29.1	23.4	16.2	8.1	0.0
-70°	36.9	31.7	26.7	21.6	14.5	7.2	0.0
-72.5°	33.1	28.6	24.2	19.1	12.7	6.4	0.0
-75°	29.3	25.5	21.7	16.4	11.0	5.5	0.0
-77.5°	25.5	22.3	18.3	13.7	9.2	4.6	0.0
-80°	21.7	18.3	14.7	11.0	7.4	3.7	0.0
-82.5°	16.4	13.7	11.0	8.3	5.5	2.8	0.0
-85°	11.0	9.2	7.4	5.5	3.7	1.8	0.0
-87.5°	5.5	4.6	3.7	2.8	1.8	0.9	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)