

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: P699992 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-57-70-3S-S**

Issue Date: 8/10/2023

Test Information

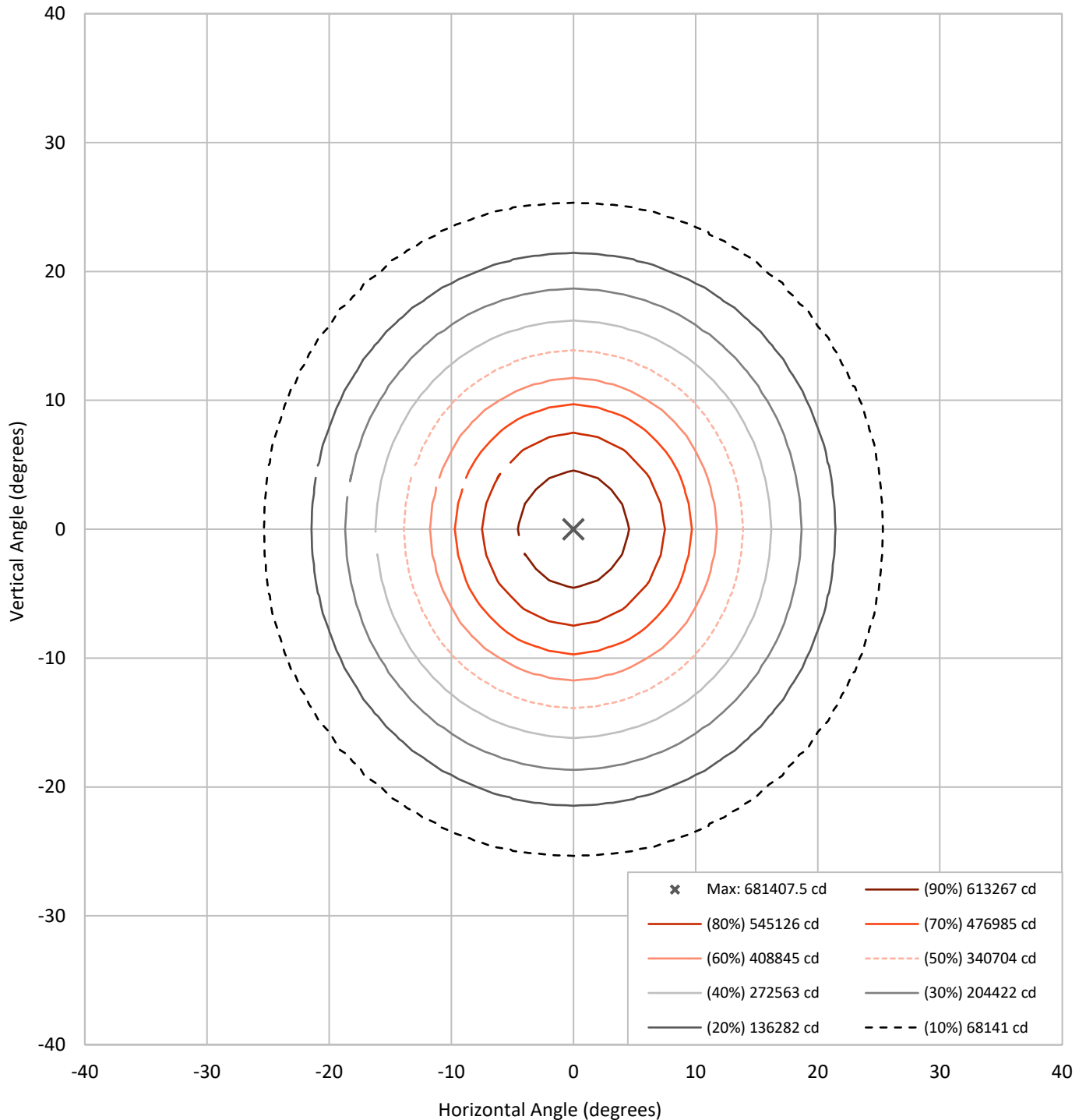
Test Method: LM-79-08
Report Number: P699992 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-11)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200R-57-70-3S-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 5700K, 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:	198777.2 lumens	Max Intensity:	681407.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	159.7 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:	87383 lumens	Field Lumens:	162583.5 lumens
Beam Efficiency:	44.0%	Field Efficiency:	81.8%
Input Watts (W):	1244.6		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





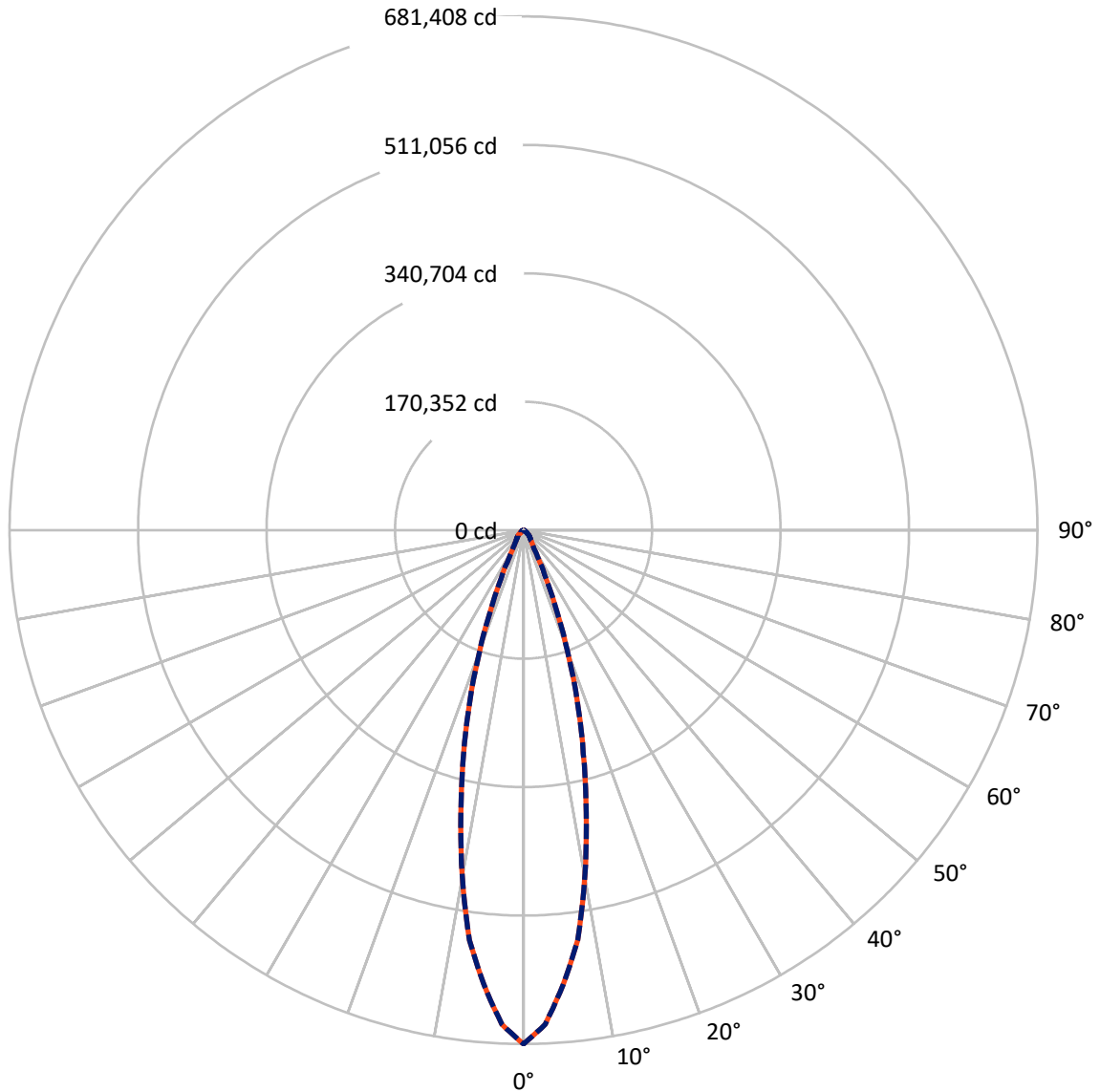
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Lumen Table

90	0.4	2.5		9.2		22.2		28.8		22.2		9.2		2.5		0.4
80	0.4	2.5		9.2		22.2		28.8		22.2		9.2		2.5		0.4
70	1.1	1.4	5.5	15.1	28.7	43.2	55.3	62.1	62.1	55.3	43.2	28.7	15.1	5.5	1.4	1.1
60		4.2	17.1	39.7	68.6	99.2	124.5	138.6	138.6	124.5	99.2	68.6	39.7	17.1	4.2	
50	3.1	9.3	32.4	70.1	118.7	187.0	262.7	306.8	306.8	262.7	187.0	118.7	70.1	32.4	9.3	3.1
40		15.3	48.5	102.8	206.9	339.4	460.1	558.5	558.5	460.1	339.4	206.9	102.8	48.5	15.3	
30	6.4	20.8	63.5	147.1	307.4	532.7	1179.3	2209.0	2209.0	1179.3	532.7	307.4	147.1	63.5	20.8	6.4
20		24.9	74.8	194.3	391.9	1112.5	4348.0	8477.1	8477.1	4348.0	1112.5	391.9	194.3	74.8	24.9	
10	7.9	27.1	80.8	219.8	462.3	2030.5	8244.9	16060.3	16060.3	8244.9	2030.5	462.3	219.8	80.8	27.1	7.9
0		27.1	80.8	219.8	462.3	2030.5	8244.9	16060.3	16060.3	8244.9	2030.5	462.3	219.8	80.8	27.1	
-10	6.4	24.9	74.8	194.3	391.9	1112.5	4348.0	8477.1	8477.1	4348.0	1112.5	391.9	194.3	74.8	24.9	6.4
-20		20.8	63.5	147.1	307.4	532.7	1179.3	2209.0	2209.0	1179.3	532.7	307.4	147.1	63.5	20.8	
-30	3.1	15.3	48.5	102.8	206.9	339.4	460.1	558.5	558.5	460.1	339.4	206.9	102.8	48.5	15.3	3.1
-40		9.3	32.4	70.1	118.7	187.0	262.7	306.8	306.8	262.7	187.0	118.7	70.1	32.4	9.3	
-50	1.1	4.2	17.1	39.7	68.6	99.2	124.5	138.6	138.6	124.5	99.2	68.6	39.7	17.1	4.2	1.1
-60		1.4	5.5	15.1	28.7	43.2	55.3	62.1	62.1	55.3	43.2	28.7	15.1	5.5	1.4	
-70	0.4	2.5		9.2		22.2		28.8		22.2		9.2		2.5		0.4
-80		2.5		9.2		22.2		28.8		22.2		9.2		2.5		
-90	0.4	2.5		9.2		22.2		28.8		22.2		9.2		2.5		0.4

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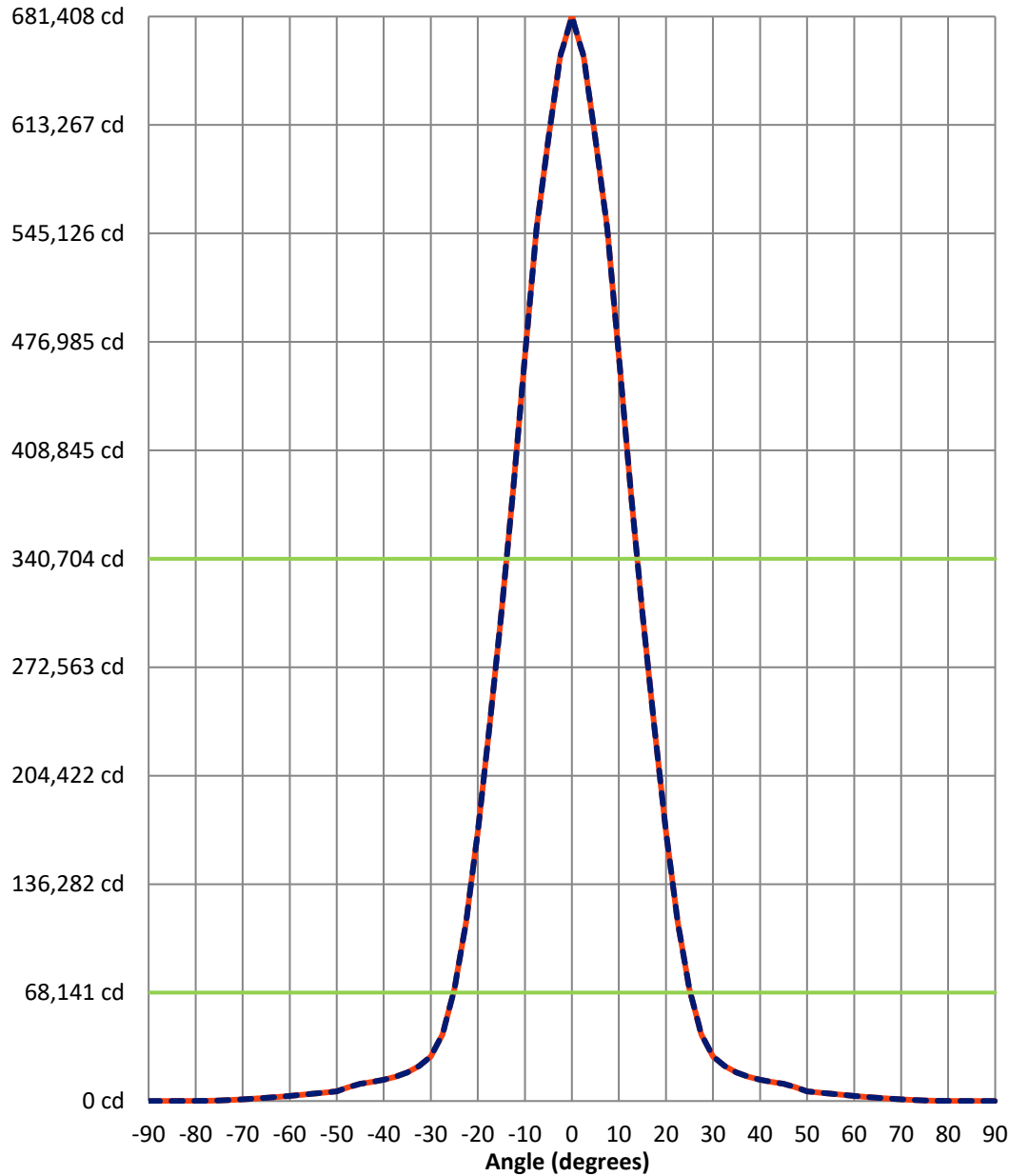
Luminous Intensity Polar Plot



— 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: 87383
 Efficiency: 44.0%

Field:
 H Angle: 50.4°
 V Angle: 50.4°
 Lumens: 162583.5
 Efficiency: 81.8%

Spill:
 Lumens: 36193.7
 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	1.9	2.8	3.7	4.6	5.5	6.4	7.3	8.2	9.0
85°	0.0	1.9	3.7	5.6	7.4	9.3	11.1	12.9	14.6	16.4	18.1
82.5°	0.0	2.8	5.6	8.4	11.1	13.9	16.6	19.3	21.8	23.6	25.5
80°	0.0	3.7	7.4	11.1	14.8	18.4	21.9	24.4	26.9	29.4	31.9
77.5°	0.0	4.6	9.3	13.9	18.4	22.5	25.8	28.9	32.1	35.2	38.7
75°	0.0	5.5	11.1	16.6	21.9	25.8	29.6	33.4	37.3	42.3	47.1
72.5°	0.0	6.4	12.9	19.3	24.4	28.9	33.4	38.2	44.0	49.8	55.4
70°	0.0	7.3	14.6	21.8	26.9	32.1	37.3	44.0	50.6	57.2	64.9
67.5°	0.0	8.2	16.4	23.6	29.4	35.2	42.3	49.8	57.2	66.0	74.7
65°	0.0	9.0	18.1	25.5	31.9	38.7	47.1	55.4	64.9	74.7	90.1
62.5°	0.0	9.9	19.7	27.2	34.2	42.7	51.8	61.7	72.5	86.8	118.7
60°	0.0	10.7	21.4	29.0	36.6	46.5	56.5	68.2	80.0	112.1	146.9
57.5°	0.0	11.5	22.5	30.7	39.6	50.3	61.8	74.6	99.0	136.9	206.7
55°	0.0	12.3	23.6	32.4	42.5	54.0	67.2	80.8	120.5	170.4	280.3
52.5°	0.0	13.0	24.7	34.0	45.4	57.7	72.3	97.8	141.5	235.0	352.0
50°	0.0	13.8	25.8	35.6	48.1	61.9	77.4	115.5	172.1	297.6	457.7
47.5°	0.0	14.5	26.8	37.2	50.8	65.9	83.6	132.7	225.9	358.1	564.1
45°	0.0	15.1	27.7	39.1	53.4	69.8	97.7	149.2	277.6	449.6	666.8
42.5°	0.0	15.8	28.6	40.9	55.8	73.5	111.2	181.0	327.4	538.2	784.6
40°	0.0	16.4	29.5	42.7	58.4	77.0	124.2	222.4	383.8	623.0	900.4
37.5°	0.0	17.0	30.4	44.4	61.1	80.4	136.5	261.9	455.3	708.8	1010.8
35°	0.0	17.5	31.2	45.9	63.6	87.8	148.1	299.2	523.0	802.5	1121.5
32.5°	0.0	18.0	31.9	47.4	66.0	96.9	164.6	334.4	586.8	890.9	1234.9
30°	0.0	18.5	32.6	48.8	68.3	105.4	192.7	371.7	646.5	973.7	1341.2
27.5°	0.0	19.0	33.2	50.1	70.3	113.3	218.7	420.0	706.6	1050.7	1440.2
25°	0.0	19.4	33.8	51.3	72.2	120.5	242.7	464.4	769.2	1128.6	1532.1
22.5°	0.0	19.8	34.4	52.3	74.0	127.1	264.5	504.9	826.4	1203.0	1627.9
20°	0.0	20.1	34.9	53.3	75.5	133.1	284.2	541.5	878.0	1270.1	1714.5
17.5°	0.0	20.4	35.3	54.2	76.9	138.3	301.7	573.9	923.8	1329.8	1791.5
15°	0.0	20.7	35.7	54.9	78.1	142.9	316.9	602.2	963.7	1381.8	1858.6
12.5°	0.0	20.9	36.0	55.5	79.2	146.9	329.9	626.2	997.7	1426.1	1915.9
10°	0.0	21.1	36.2	56.1	80.0	150.1	340.5	646.0	1025.6	1462.6	1962.9
7.5°	0.0	21.2	36.4	56.5	80.7	152.6	348.8	661.4	1047.4	1491.0	1999.7
5°	0.0	21.3	36.6	56.8	81.1	154.4	354.7	672.5	1063.0	1511.4	2026.0
2.5°	0.0	21.4	36.7	56.9	81.4	155.4	358.3	679.1	1072.4	1523.6	2041.8
0°	0.0	21.4	36.7	56.9	81.4	155.4	358.3	679.1	1072.4	1523.6	2041.8
-2.5°	0.0	21.3	36.6	56.8	81.1	154.4	354.7	672.5	1063.0	1511.4	2026.0
-5°	0.0	21.2	36.4	56.5	80.7	152.6	348.8	661.4	1047.4	1491.0	1999.7
-7.5°	0.0	21.1	36.2	56.1	80.0	150.1	340.5	646.0	1025.6	1462.6	1962.9
-10°	0.0	20.9	36.0	55.5	79.2	146.9	329.9	626.2	997.7	1426.1	1915.9
-12.5°	0.0	20.7	35.7	54.9	78.1	142.9	316.9	602.2	963.7	1381.8	1858.6
-15°	0.0	20.4	35.3	54.2	76.9	138.3	301.7	573.9	923.8	1329.8	1791.5
-17.5°	0.0	20.1	34.9	53.3	75.5	133.1	284.2	541.5	878.0	1270.1	1714.5
-20°	0.0	20.1	34.9	53.3	75.5	133.1	284.2	541.5	878.0	1270.1	1714.5



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 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3S-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	19.8	34.4	52.3	74.0	127.1	264.5	504.9	826.4	1203.0	1627.9
-25°	0.0	19.4	33.8	51.3	72.2	120.5	242.7	464.4	769.2	1128.6	1532.1
-27.5°	0.0	19.0	33.2	50.1	70.3	113.3	218.7	420.0	706.6	1050.7	1440.2
-30°	0.0	18.5	32.6	48.8	68.3	105.4	192.7	371.7	646.5	973.7	1341.2
-32.5°	0.0	18.0	31.9	47.4	66.0	96.9	164.6	334.4	586.8	890.9	1234.9
-35°	0.0	17.5	31.2	45.9	63.6	87.8	148.1	299.2	523.0	802.5	1121.5
-37.5°	0.0	17.0	30.4	44.4	61.1	80.4	136.5	261.9	455.3	708.8	1010.8
-40°	0.0	16.4	29.5	42.7	58.4	77.0	124.2	222.4	383.8	623.0	900.4
-42.5°	0.0	15.8	28.6	40.9	55.8	73.5	111.2	181.0	327.4	538.2	784.6
-45°	0.0	15.1	27.7	39.1	53.4	69.8	97.7	149.2	277.6	449.6	666.8
-47.5°	0.0	14.5	26.8	37.2	50.8	65.9	83.6	132.7	225.9	358.1	564.1
-50°	0.0	13.8	25.8	35.6	48.1	61.9	77.4	115.5	172.1	297.6	457.7
-52.5°	0.0	13.0	24.7	34.0	45.4	57.7	72.3	97.8	141.5	235.0	352.0
-55°	0.0	12.3	23.6	32.4	42.5	54.0	67.2	80.8	120.5	170.4	280.3
-57.5°	0.0	11.5	22.5	30.7	39.6	50.3	61.8	74.6	99.0	136.9	206.7
-60°	0.0	10.7	21.4	29.0	36.6	46.5	56.5	68.2	80.0	112.1	146.9
-62.5°	0.0	9.9	19.7	27.2	34.2	42.7	51.8	61.7	72.5	86.8	118.7
-65°	0.0	9.0	18.1	25.5	31.9	38.7	47.1	55.4	64.9	74.7	90.1
-67.5°	0.0	8.2	16.4	23.6	29.4	35.2	42.3	49.8	57.2	66.0	74.7
-70°	0.0	7.3	14.6	21.8	26.9	32.1	37.3	44.0	50.6	57.2	64.9
-72.5°	0.0	6.4	12.9	19.3	24.4	28.9	33.4	38.2	44.0	49.8	55.4
-75°	0.0	5.5	11.1	16.6	21.9	25.8	29.6	33.4	37.3	42.3	47.1
-77.5°	0.0	4.6	9.3	13.9	18.4	22.5	25.8	28.9	32.1	35.2	38.7
-80°	0.0	3.7	7.4	11.1	14.8	18.4	21.9	24.4	26.9	29.4	31.9
-82.5°	0.0	2.8	5.6	8.4	11.1	13.9	16.6	19.3	21.8	23.6	25.5
-85°	0.0	1.9	3.7	5.6	7.4	9.3	11.1	12.9	14.6	16.4	18.1
-87.5°	0.0	0.9	1.9	2.8	3.7	4.6	5.5	6.4	7.3	8.2	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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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°	9.9	10.7	11.5	12.3	13.0	13.8	14.5	15.1	15.8	16.4	17.0
85°	19.7	21.4	22.5	23.6	24.7	25.8	26.8	27.7	28.6	29.5	30.4
82.5°	27.2	29.0	30.7	32.4	34.0	35.6	37.2	39.1	40.9	42.7	44.4
80°	34.2	36.6	39.6	42.5	45.4	48.1	50.8	53.4	55.8	58.4	61.1
77.5°	42.7	46.5	50.3	54.0	57.7	61.9	65.9	69.8	73.5	77.0	80.4
75°	51.8	56.5	61.8	67.2	72.3	77.4	83.6	97.7	111.2	124.2	136.5
72.5°	61.7	68.2	74.6	80.8	97.8	115.5	132.7	149.2	181.0	222.4	261.9
70°	72.5	80.0	99.0	120.5	141.5	172.1	225.9	277.6	327.4	383.8	455.3
67.5°	86.8	112.1	136.9	170.4	235.0	297.6	358.1	449.6	538.2	623.0	708.8
65°	118.7	146.9	206.7	280.3	352.0	457.7	564.1	666.8	784.6	900.4	1010.8
62.5°	150.2	224.9	307.8	405.6	530.1	651.2	788.0	926.8	1060.3	1204.8	1344.9
60°	224.9	316.9	434.7	573.9	716.1	878.0	1034.9	1203.0	1370.6	1532.1	1708.6
57.5°	307.8	434.7	588.6	752.2	932.3	1112.5	1307.8	1496.8	1701.6	1902.7	2097.3
55°	405.6	573.9	752.2	950.5	1154.5	1371.2	1589.9	1824.3	2050.8	2278.7	2496.9
52.5°	530.1	716.1	932.3	1154.5	1392.4	1639.0	1898.5	2155.1	2410.0	2664.2	2931.4
50°	651.2	878.0	1112.5	1371.2	1639.0	1923.4	2207.7	2489.5	2785.6	3084.3	3396.9
47.5°	788.0	1034.9	1307.8	1589.9	1898.5	2207.7	2516.2	2846.7	3177.0	3541.3	3896.4
45°	926.8	1203.0	1496.8	1824.3	2155.1	2489.5	2846.7	3208.1	3614.1	4006.8	4384.4
42.5°	1060.3	1370.6	1701.6	2050.8	2410.0	2785.6	3177.0	3614.1	4043.7	4459.5	4851.9
40°	1204.8	1532.1	1902.7	2278.7	2664.2	3084.3	3541.3	4006.8	4459.5	4888.7	5297.2
37.5°	1344.9	1708.6	2097.3	2496.9	2931.4	3396.9	3896.4	4384.4	4851.9	5297.2	5791.1
35°	1477.9	1876.4	2289.0	2720.3	3186.4	3714.1	4235.6	4742.2	5222.4	5747.0	6660.6
32.5°	1614.8	2035.0	2470.4	2944.1	3462.9	4015.5	4558.5	5074.1	5615.6	6361.3	8194.7
30°	1750.2	2190.4	2647.8	3154.8	3726.9	4299.5	4854.9	5399.5	6002.9	7736.9	9479.4
27.5°	1876.4	2335.9	2828.6	3374.2	3973.9	4565.9	5130.5	5740.2	6984.5	8976.7	10602.1
25°	1992.9	2470.4	2996.0	3585.4	4202.6	4806.4	5397.6	6058.1	8121.5	9962.4	11292.7
22.5°	2101.9	2593.9	3149.4	3779.1	4412.8	5025.2	5669.8	6929.7	9086.8	10858.0	11839.7
20°	2202.7	2720.3	3300.8	3954.6	4603.5	5224.0	5917.5	7821.0	9864.3	11324.7	12401.6
17.5°	2292.5	2832.9	3444.0	4110.9	4768.3	5414.6	6223.7	8621.4	10564.0	11745.7	12937.8
15°	2370.8	2931.4	3569.2	4247.8	4911.8	5594.3	6873.4	9209.9	11027.4	12137.2	13418.1
12.5°	2437.6	3015.3	3676.1	4364.6	5034.4	5748.0	7430.0	9698.7	11322.9	12515.4	13972.9
10°	2492.5	3084.3	3764.1	4461.0	5135.5	5875.0	7890.3	10103.4	11568.0	12829.6	14435.0
7.5°	2535.5	3138.3	3833.0	4536.4	5214.7	5974.5	8251.4	10421.3	11760.8	13077.2	14799.6
5°	2566.2	3177.0	3882.4	4590.5	5271.6	6046.0	8511.1	10650.1	11899.6	13255.7	15063.0
2.5°	2584.7	3200.3	3912.1	4623.0	5305.9	6089.1	8667.5	10788.0	11983.4	13363.5	15222.2
0°	2590.9	3208.1	3922.0	4633.9	5317.3	6103.5	8719.8	10834.1	12011.4	13399.6	15275.5
-2.5°	2584.7	3200.3	3912.1	4623.0	5305.9	6089.1	8667.5	10788.0	11983.4	13363.5	15222.2
-5°	2566.2	3177.0	3882.4	4590.5	5271.6	6046.0	8511.1	10650.1	11899.6	13255.7	15063.0
-7.5°	2535.5	3138.3	3833.0	4536.4	5214.7	5974.5	8251.4	10421.3	11760.8	13077.2	14799.6
-10°	2492.5	3084.3	3764.1	4461.0	5135.5	5875.0	7890.3	10103.4	11568.0	12829.6	14435.0
-12.5°	2437.6	3015.3	3676.1	4364.6	5034.4	5748.0	7430.0	9698.7	11322.9	12515.4	13972.9
-15°	2370.8	2931.4	3569.2	4247.8	4911.8	5594.3	6873.4	9209.9	11027.4	12137.2	13418.1
-17.5°	2292.5	2832.9	3444.0	4110.9	4768.3	5414.6	6223.7	8621.4	10564.0	11745.7	12937.8
-20°	2202.7	2720.3	3300.8	3954.6	4603.5	5224.0	5917.5	7821.0	9864.3	11324.7	12401.6



REPORT NUMBER: P699992 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3S-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2101.9	2593.9	3149.4	3779.1	4412.8	5025.2	5669.8	6929.7	9086.8	10858.0	11839.7
-25°	1992.9	2470.4	2996.0	3585.4	4202.6	4806.4	5397.6	6058.1	8121.5	9962.4	11292.7
-27.5°	1876.4	2335.9	2828.6	3374.2	3973.9	4565.9	5130.5	5740.2	6984.5	8976.7	10602.1
-30°	1750.2	2190.4	2647.8	3154.8	3726.9	4299.5	4854.9	5399.5	6002.9	7736.9	9479.4
-32.5°	1614.8	2035.0	2470.4	2944.1	3462.9	4015.5	4558.5	5074.1	5615.6	6361.3	8194.7
-35°	1477.9	1876.4	2289.0	2720.3	3186.4	3714.1	4235.6	4742.2	5222.4	5747.0	6660.6
-37.5°	1344.9	1708.6	2097.3	2496.9	2931.4	3396.9	3896.4	4384.4	4851.9	5297.2	5791.1
-40°	1204.8	1532.1	1902.7	2278.7	2664.2	3084.3	3541.3	4006.8	4459.5	4888.7	5297.2
-42.5°	1060.3	1370.6	1701.6	2050.8	2410.0	2785.6	3177.0	3614.1	4043.7	4459.5	4851.9
-45°	926.8	1203.0	1496.8	1824.3	2155.1	2489.5	2846.7	3208.1	3614.1	4006.8	4384.4
-47.5°	788.0	1034.9	1307.8	1589.9	1898.5	2207.7	2516.2	2846.7	3177.0	3541.3	3896.4
-50°	651.2	878.0	1112.5	1371.2	1639.0	1923.4	2207.7	2489.5	2785.6	3084.3	3396.9
-52.5°	530.1	716.1	932.3	1154.5	1392.4	1639.0	1898.5	2155.1	2410.0	2664.2	2931.4
-55°	405.6	573.9	752.2	950.5	1154.5	1371.2	1589.9	1824.3	2050.8	2278.7	2496.9
-57.5°	307.8	434.7	588.6	752.2	932.3	1112.5	1307.8	1496.8	1701.6	1902.7	2097.3
-60°	224.9	316.9	434.7	573.9	716.1	878.0	1034.9	1203.0	1370.6	1532.1	1708.6
-62.5°	150.2	224.9	307.8	405.6	530.1	651.2	788.0	926.8	1060.3	1204.8	1344.9
-65°	118.7	146.9	206.7	280.3	352.0	457.7	564.1	666.8	784.6	900.4	1010.8
-67.5°	86.8	112.1	136.9	170.4	235.0	297.6	358.1	449.6	538.2	623.0	708.8
-70°	72.5	80.0	99.0	120.5	141.5	172.1	225.9	277.6	327.4	383.8	455.3
-72.5°	61.7	68.2	74.6	80.8	97.8	115.5	132.7	149.2	181.0	222.4	261.9
-75°	51.8	56.5	61.8	67.2	72.3	77.4	83.6	97.7	111.2	124.2	136.5
-77.5°	42.7	46.5	50.3	54.0	57.7	61.9	65.9	69.8	73.5	77.0	80.4
-80°	34.2	36.6	39.6	42.5	45.4	48.1	50.8	53.4	55.8	58.4	61.1
-82.5°	27.2	29.0	30.7	32.4	34.0	35.6	37.2	39.1	40.9	42.7	44.4
-85°	19.7	21.4	22.5	23.6	24.7	25.8	26.8	27.7	28.6	29.5	30.4
-87.5°	9.9	10.7	11.5	12.3	13.0	13.8	14.5	15.1	15.8	16.4	17.0
-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: P699992 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3S-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°	17.5	18.0	18.5	19.0	19.4	19.8	20.1	20.4	20.7	20.9	21.1
85°	31.2	31.9	32.6	33.2	33.8	34.4	34.9	35.3	35.7	36.0	36.2
82.5°	45.9	47.4	48.8	50.1	51.3	52.3	53.3	54.2	54.9	55.5	56.1
80°	63.6	66.0	68.3	70.3	72.2	74.0	75.5	76.9	78.1	79.2	80.0
77.5°	87.8	96.9	105.4	113.3	120.5	127.1	133.1	138.3	142.9	146.9	150.1
75°	148.1	164.6	192.7	218.7	242.7	264.5	284.2	301.7	316.9	329.9	340.5
72.5°	299.2	334.4	371.7	420.0	464.4	504.9	541.5	573.9	602.2	626.2	646.0
70°	523.0	586.8	646.5	706.6	769.2	826.4	878.0	923.8	963.7	997.7	1025.6
67.5°	802.5	890.9	973.7	1050.7	1128.6	1203.0	1270.1	1329.8	1381.8	1426.1	1462.6
65°	1121.5	1234.9	1341.2	1440.2	1532.1	1627.9	1714.5	1791.5	1858.6	1915.9	1962.9
62.5°	1477.9	1614.8	1750.2	1876.4	1992.9	2101.9	2202.7	2292.5	2370.8	2437.6	2492.5
60°	1876.4	2035.0	2190.4	2335.9	2470.4	2593.9	2720.3	2832.9	2931.4	3015.3	3084.3
57.5°	2289.0	2470.4	2647.8	2828.6	2996.0	3149.4	3300.8	3444.0	3569.2	3676.1	3764.1
55°	2720.3	2944.1	3154.8	3374.2	3585.4	3779.1	3954.6	4110.9	4247.8	4364.6	4461.0
52.5°	3186.4	3462.9	3726.9	3973.9	4202.6	4412.8	4603.5	4768.3	4911.8	5034.4	5135.5
50°	3714.1	4015.5	4299.5	4565.9	4806.4	5025.2	5224.0	5414.6	5594.3	5748.0	5875.0
47.5°	4235.6	4558.5	4854.9	5130.5	5397.6	5669.8	5917.5	6223.7	6873.4	7430.0	7890.3
45°	4742.2	5074.1	5399.5	5740.2	6058.1	6929.7	7821.0	8621.4	9209.9	9698.7	10103.4
42.5°	5222.4	5615.6	6002.9	6984.5	8121.5	9086.8	9864.3	10564.0	11027.4	11322.9	11568.0
40°	5747.0	6361.3	7736.9	8976.7	9962.4	10858.0	11324.7	11745.7	12137.2	12515.4	12829.6
37.5°	6660.6	8194.7	9479.4	10602.1	11292.7	11839.7	12401.6	12937.8	13418.1	13972.9	14435.0
35°	8348.4	9733.6	10922.0	11588.4	12253.8	12945.8	13648.4	14430.7	15126.6	15924.9	16645.1
32.5°	9733.6	10994.9	11738.2	12525.5	13317.0	14290.0	15217.3	16401.1	17480.2	18646.0	19822.4
30°	10922.0	11738.2	12616.9	13542.3	14682.8	15962.7	17389.5	19060.3	20812.6	22522.0	24447.0
27.5°	11588.4	12525.5	13542.3	14815.1	16354.3	18014.6	20310.5	22640.9	25488.2	27985.7	32889.8
25°	12253.8	13317.0	14682.8	16354.3	18321.2	20947.8	24125.9	27539.1	34143.1	40508.5	49821.8
22.5°	12945.8	14290.0	15962.7	18014.6	20947.8	24628.0	29376.1	37971.1	49622.3	63591.4	78301.6
20°	13648.4	15217.3	17389.5	20310.5	24125.9	29376.1	39269.4	55091.9	73257.8	96374.5	117698.5
17.5°	14430.7	16401.1	19060.3	22640.9	27539.1	37971.1	55091.9	77676.3	105744.4	137687.9	167623.5
15°	15126.6	17480.2	20812.6	25488.2	34143.1	49622.3	73257.8	105744.4	144544.2	184465.4	223543.0
12.5°	15924.9	18646.0	22522.0	27985.7	40508.5	63591.4	96374.5	137687.9	184465.4	233034.1	279341.7
10°	16645.1	19822.4	24447.0	32889.8	49821.8	78301.6	117698.5	167623.5	223543.0	279341.7	334251.5
7.5°	17214.8	20755.5	25978.9	36821.2	58525.4	92873.4	139636.5	196171.6	257526.5	320496.2	384457.8
5°	17627.0	21432.2	27093.0	39690.0	64904.9	103616.2	155935.2	217828.0	283983.5	354493.8	426179.9
2.5°	17876.5	21842.4	27769.8	41437.0	68802.1	110206.8	165992.5	231301.0	300641.6	376191.2	456615.1
0°	17960.1	21979.9	27996.8	42023.7	70113.2	112429.1	169394.3	235878.8	306340.2	383746.5	467552.4
-2.5°	17876.5	21842.4	27769.8	41437.0	68802.1	110206.8	165992.5	231301.0	300641.6	376191.2	456615.1
-5°	17627.0	21432.2	27093.0	39690.0	64904.9	103616.2	155935.2	217828.0	283983.5	354493.8	426179.9
-7.5°	17214.8	20755.5	25978.9	36821.2	58525.4	92873.4	139636.5	196171.6	257526.5	320496.2	384457.8
-10°	16645.1	19822.4	24447.0	32889.8	49821.8	78301.6	117698.5	167623.5	223543.0	279341.7	334251.5
-12.5°	15924.9	18646.0	22522.0	27985.7	40508.5	63591.4	96374.5	137687.9	184465.4	233034.1	279341.7
-15°	15126.6	17480.2	20812.6	25488.2	34143.1	49622.3	73257.8	105744.4	144544.2	184465.4	223543.0
-17.5°	14430.7	16401.1	19060.3	22640.9	27539.1	37971.1	55091.9	77676.3	105744.4	137687.9	167623.5
-20°	13648.4	15217.3	17389.5	20310.5	24125.9	29376.1	39269.4	55091.9	73257.8	96374.5	117698.5



REPORT NUMBER: P699992 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3S-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	12945.8	14290.0	15962.7	18014.6	20947.8	24628.0	29376.1	37971.1	49622.3	63591.4	78301.6
-25°	12253.8	13317.0	14682.8	16354.3	18321.2	20947.8	24125.9	27539.1	34143.1	40508.5	49821.8
-27.5°	11588.4	12525.5	13542.3	14815.1	16354.3	18014.6	20310.5	22640.9	25488.2	27985.7	32889.8
-30°	10922.0	11738.2	12616.9	13542.3	14682.8	15962.7	17389.5	19060.3	20812.6	22522.0	24447.0
-32.5°	9733.6	10994.9	11738.2	12525.5	13317.0	14290.0	15217.3	16401.1	17480.2	18646.0	19822.4
-35°	8348.4	9733.6	10922.0	11588.4	12253.8	12945.8	13648.4	14430.7	15126.6	15924.9	16645.1
-37.5°	6660.6	8194.7	9479.4	10602.1	11292.7	11839.7	12401.6	12937.8	13418.1	13972.9	14435.0
-40°	5747.0	6361.3	7736.9	8976.7	9962.4	10858.0	11324.7	11745.7	12137.2	12515.4	12829.6
-42.5°	5222.4	5615.6	6002.9	6984.5	8121.5	9086.8	9864.3	10564.0	11027.4	11322.9	11568.0
-45°	4742.2	5074.1	5399.5	5740.2	6058.1	6929.7	7821.0	8621.4	9209.9	9698.7	10103.4
-47.5°	4235.6	4558.5	4854.9	5130.5	5397.6	5669.8	5917.5	6223.7	6873.4	7430.0	7890.3
-50°	3714.1	4015.5	4299.5	4565.9	4806.4	5025.2	5224.0	5414.6	5594.3	5748.0	5875.0
-52.5°	3186.4	3462.9	3726.9	3973.9	4202.6	4412.8	4603.5	4768.3	4911.8	5034.4	5135.5
-55°	2720.3	2944.1	3154.8	3374.2	3585.4	3779.1	3954.6	4110.9	4247.8	4364.6	4461.0
-57.5°	2289.0	2470.4	2647.8	2828.6	2996.0	3149.4	3300.8	3444.0	3569.2	3676.1	3764.1
-60°	1876.4	2035.0	2190.4	2335.9	2470.4	2593.9	2720.3	2832.9	2931.4	3015.3	3084.3
-62.5°	1477.9	1614.8	1750.2	1876.4	1992.9	2101.9	2202.7	2292.5	2370.8	2437.6	2492.5
-65°	1121.5	1234.9	1341.2	1440.2	1532.1	1627.9	1714.5	1791.5	1858.6	1915.9	1962.9
-67.5°	802.5	890.9	973.7	1050.7	1128.6	1203.0	1270.1	1329.8	1381.8	1426.1	1462.6
-70°	523.0	586.8	646.5	706.6	769.2	826.4	878.0	923.8	963.7	997.7	1025.6
-72.5°	299.2	334.4	371.7	420.0	464.4	504.9	541.5	573.9	602.2	626.2	646.0
-75°	148.1	164.6	192.7	218.7	242.7	264.5	284.2	301.7	316.9	329.9	340.5
-77.5°	87.8	96.9	105.4	113.3	120.5	127.1	133.1	138.3	142.9	146.9	150.1
-80°	63.6	66.0	68.3	70.3	72.2	74.0	75.5	76.9	78.1	79.2	80.0
-82.5°	45.9	47.4	48.8	50.1	51.3	52.3	53.3	54.2	54.9	55.5	56.1
-85°	31.2	31.9	32.6	33.2	33.8	34.4	34.9	35.3	35.7	36.0	36.2
-87.5°	17.5	18.0	18.5	19.0	19.4	19.8	20.1	20.4	20.7	20.9	21.1
-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: P699992 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3S-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°	21.2	21.3	21.4	21.4	21.4	21.3	21.2	21.1	20.9	20.7	20.4
85°	36.4	36.6	36.7	36.7	36.7	36.6	36.4	36.2	36.0	35.7	35.3
82.5°	56.5	56.8	56.9	57.0	56.9	56.8	56.5	56.1	55.5	54.9	54.2
80°	80.7	81.1	81.4	81.5	81.4	81.1	80.7	80.0	79.2	78.1	76.9
77.5°	152.6	154.4	155.4	155.8	155.4	154.4	152.6	150.1	146.9	142.9	138.3
75°	348.8	354.7	358.3	359.5	358.3	354.7	348.8	340.5	329.9	316.9	301.7
72.5°	661.4	672.5	679.1	681.3	679.1	672.5	661.4	646.0	626.2	602.2	573.9
70°	1047.4	1063.0	1072.4	1075.5	1072.4	1063.0	1047.4	1025.6	997.7	963.7	923.8
67.5°	1491.0	1511.4	1523.6	1527.7	1523.6	1511.4	1491.0	1462.6	1426.1	1381.8	1329.8
65°	1999.7	2026.0	2041.8	2047.1	2041.8	2026.0	1999.7	1962.9	1915.9	1858.6	1791.5
62.5°	2535.5	2566.2	2584.7	2590.9	2584.7	2566.2	2535.5	2492.5	2437.6	2370.8	2292.5
60°	3138.3	3177.0	3200.3	3208.1	3200.3	3177.0	3138.3	3084.3	3015.3	2931.4	2832.9
57.5°	3833.0	3882.4	3912.1	3922.0	3912.1	3882.4	3833.0	3764.1	3676.1	3569.2	3444.0
55°	4536.4	4590.5	4623.0	4633.9	4623.0	4590.5	4536.4	4461.0	4364.6	4247.8	4110.9
52.5°	5214.7	5271.6	5305.9	5317.3	5305.9	5271.6	5214.7	5135.5	5034.4	4911.8	4768.3
50°	5974.5	6046.0	6089.1	6103.5	6089.1	6046.0	5974.5	5875.0	5748.0	5594.3	5414.6
47.5°	8251.4	8511.1	8667.5	8719.8	8667.5	8511.1	8251.4	7890.3	7430.0	6873.4	6223.7
45°	10421.3	10650.1	10788.0	10834.1	10788.0	10650.1	10421.3	10103.4	9698.7	9209.9	8621.4
42.5°	11760.8	11899.6	11983.4	12011.4	11983.4	11899.6	11760.8	11568.0	11322.9	11027.4	10564.0
40°	13077.2	13255.7	13363.5	13399.6	13363.5	13255.7	13077.2	12829.6	12515.4	12137.2	11745.7
37.5°	14799.6	15063.0	15222.2	15275.5	15222.2	15063.0	14799.6	14435.0	13972.9	13418.1	12937.8
35°	17214.8	17627.0	17876.5	17960.1	17876.5	17627.0	17214.8	16645.1	15924.9	15126.6	14430.7
32.5°	20755.5	21432.2	21842.4	21979.9	21842.4	21432.2	20755.5	19822.4	18646.0	17480.2	16401.1
30°	25978.9	27093.0	27769.8	27996.8	27769.8	27093.0	25978.9	24447.0	22522.0	20812.6	19060.3
27.5°	36821.2	39690.0	41437.0	42023.7	41437.0	39690.0	36821.2	32889.8	27985.7	25488.2	22640.9
25°	58525.4	64904.9	68802.1	70113.2	68802.1	64904.9	58525.4	49821.8	40508.5	34143.1	27539.1
22.5°	92873.4	103616.2	110206.8	112429.1	110206.8	103616.2	92873.4	78301.6	63591.4	49622.3	37971.1
20°	139636.5	155935.2	165992.5	169394.3	165992.5	155935.2	139636.5	117698.5	96374.5	73257.8	55091.9
17.5°	196171.6	217828.0	231301.0	235878.8	231301.0	217828.0	196171.6	167623.5	137687.9	105744.4	77676.3
15°	257526.5	283983.5	300641.6	306340.2	300641.6	283983.5	257526.5	223543.0	184465.4	144544.2	105744.4
12.5°	320496.2	354493.8	376191.2	383746.5	376191.2	354493.8	320496.2	279341.7	233034.1	184465.4	137687.9
10°	384457.8	426179.9	456615.1	467552.4	456615.1	426179.9	384457.8	334251.5	279341.7	223543.0	167623.5
7.5°	446322.0	504176.4	538679.4	548607.7	538679.4	504176.4	446322.0	384457.8	320496.2	257526.5	196171.6
5°	504176.4	559274.0	591953.9	604509.6	591953.9	559274.0	504176.4	426179.9	354493.8	283983.5	217828.0
2.5°	538679.4	591953.9	635692.4	656078.1	635692.4	591953.9	538679.4	456615.1	376191.2	300641.6	231301.0
0°	548607.7	604509.6	656078.1	681407.5	656078.1	604509.6	548607.7	467552.4	383746.5	306340.2	235878.8
-2.5°	538679.4	591953.9	635692.4	656078.1	635692.4	591953.9	538679.4	456615.1	376191.2	300641.6	231301.0
-5°	504176.4	559274.0	591953.9	604509.6	591953.9	559274.0	504176.4	426179.9	354493.8	283983.5	217828.0
-7.5°	446322.0	504176.4	538679.4	548607.7	538679.4	504176.4	446322.0	384457.8	320496.2	257526.5	196171.6
-10°	384457.8	426179.9	456615.1	467552.4	456615.1	426179.9	384457.8	334251.5	279341.7	223543.0	167623.5
-12.5°	320496.2	354493.8	376191.2	383746.5	376191.2	354493.8	320496.2	279341.7	233034.1	184465.4	137687.9
-15°	257526.5	283983.5	300641.6	306340.2	300641.6	283983.5	257526.5	223543.0	184465.4	144544.2	105744.4
-17.5°	196171.6	217828.0	231301.0	235878.8	231301.0	217828.0	196171.6	167623.5	137687.9	105744.4	77676.3
-20°	139636.5	155935.2	165992.5	169394.3	165992.5	155935.2	139636.5	117698.5	96374.5	73257.8	55091.9



REPORT NUMBER: P699992 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3S-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	92873.4	103616.2	110206.8	112429.1	110206.8	103616.2	92873.4	78301.6	63591.4	49622.3	37971.1
-25°	58525.4	64904.9	68802.1	70113.2	68802.1	64904.9	58525.4	49821.8	40508.5	34143.1	27539.1
-27.5°	36821.2	39690.0	41437.0	42023.7	41437.0	39690.0	36821.2	32889.8	27985.7	25488.2	22640.9
-30°	25978.9	27093.0	27769.8	27996.8	27769.8	27093.0	25978.9	24447.0	22522.0	20812.6	19060.3
-32.5°	20755.5	21432.2	21842.4	21979.9	21842.4	21432.2	20755.5	19822.4	18646.0	17480.2	16401.1
-35°	17214.8	17627.0	17876.5	17960.1	17876.5	17627.0	17214.8	16645.1	15924.9	15126.6	14430.7
-37.5°	14799.6	15063.0	15222.2	15275.5	15222.2	15063.0	14799.6	14435.0	13972.9	13418.1	12937.8
-40°	13077.2	13255.7	13363.5	13399.6	13363.5	13255.7	13077.2	12829.6	12515.4	12137.2	11745.7
-42.5°	11760.8	11899.6	11983.4	12011.4	11983.4	11899.6	11760.8	11568.0	11322.9	11027.4	10564.0
-45°	10421.3	10650.1	10788.0	10834.1	10788.0	10650.1	10421.3	10103.4	9698.7	9209.9	8621.4
-47.5°	8251.4	8511.1	8667.5	8719.8	8667.5	8511.1	8251.4	7890.3	7430.0	6873.4	6223.7
-50°	5974.5	6046.0	6089.1	6103.5	6089.1	6046.0	5974.5	5875.0	5748.0	5594.3	5414.6
-52.5°	5214.7	5271.6	5305.9	5317.3	5305.9	5271.6	5214.7	5135.5	5034.4	4911.8	4768.3
-55°	4536.4	4590.5	4623.0	4633.9	4623.0	4590.5	4536.4	4461.0	4364.6	4247.8	4110.9
-57.5°	3833.0	3882.4	3912.1	3922.0	3912.1	3882.4	3833.0	3764.1	3676.1	3569.2	3444.0
-60°	3138.3	3177.0	3200.3	3208.1	3200.3	3177.0	3138.3	3084.3	3015.3	2931.4	2832.9
-62.5°	2535.5	2566.2	2584.7	2590.9	2584.7	2566.2	2535.5	2492.5	2437.6	2370.8	2292.5
-65°	1999.7	2026.0	2041.8	2047.1	2041.8	2026.0	1999.7	1962.9	1915.9	1858.6	1791.5
-67.5°	1491.0	1511.4	1523.6	1527.7	1523.6	1511.4	1491.0	1462.6	1426.1	1381.8	1329.8
-70°	1047.4	1063.0	1072.4	1075.5	1072.4	1063.0	1047.4	1025.6	997.7	963.7	923.8
-72.5°	661.4	672.5	679.1	681.3	679.1	672.5	661.4	646.0	626.2	602.2	573.9
-75°	348.8	354.7	358.3	359.5	358.3	354.7	348.8	340.5	329.9	316.9	301.7
-77.5°	152.6	154.4	155.4	155.8	155.4	154.4	152.6	150.1	146.9	142.9	138.3
-80°	80.7	81.1	81.4	81.5	81.4	81.1	80.7	80.0	79.2	78.1	76.9
-82.5°	56.5	56.8	56.9	57.0	56.9	56.8	56.5	56.1	55.5	54.9	54.2
-85°	36.4	36.6	36.7	36.7	36.7	36.6	36.4	36.2	36.0	35.7	35.3
-87.5°	21.2	21.3	21.4	21.4	21.4	21.3	21.2	21.1	20.9	20.7	20.4
-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):

	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°	20.1	19.8	19.4	19.0	18.5	18.0	17.5	17.0	16.4	15.8	15.1
85°	34.9	34.4	33.8	33.2	32.6	31.9	31.2	30.4	29.5	28.6	27.7
82.5°	53.3	52.3	51.3	50.1	48.8	47.4	45.9	44.4	42.7	40.9	39.1
80°	75.5	74.0	72.2	70.3	68.3	66.0	63.6	61.1	58.4	55.8	53.4
77.5°	133.1	127.1	120.5	113.3	105.4	96.9	87.8	80.4	77.0	73.5	69.8
75°	284.2	264.5	242.7	218.7	192.7	164.6	148.1	136.5	124.2	111.2	97.7
72.5°	541.5	504.9	464.4	420.0	371.7	334.4	299.2	261.9	222.4	181.0	149.2
70°	878.0	826.4	769.2	706.6	646.5	586.8	523.0	455.3	383.8	327.4	277.6
67.5°	1270.1	1203.0	1128.6	1050.7	973.7	890.9	802.5	708.8	623.0	538.2	449.6
65°	1714.5	1627.9	1532.1	1440.2	1341.2	1234.9	1121.5	1010.8	900.4	784.6	666.8
62.5°	2202.7	2101.9	1992.9	1876.4	1750.2	1614.8	1477.9	1344.9	1204.8	1060.3	926.8
60°	2720.3	2593.9	2470.4	2335.9	2190.4	2035.0	1876.4	1708.6	1532.1	1370.6	1203.0
57.5°	3300.8	3149.4	2996.0	2828.6	2647.8	2470.4	2289.0	2097.3	1902.7	1701.6	1496.8
55°	3954.6	3779.1	3585.4	3374.2	3154.8	2944.1	2720.3	2496.9	2278.7	2050.8	1824.3
52.5°	4603.5	4412.8	4202.6	3973.9	3726.9	3462.9	3186.4	2931.4	2664.2	2410.0	2155.1
50°	5224.0	5025.2	4806.4	4565.9	4299.5	4015.5	3714.1	3396.9	3084.3	2785.6	2489.5
47.5°	5917.5	5669.8	5397.6	5130.5	4854.9	4558.5	4235.6	3896.4	3541.3	3177.0	2846.7
45°	7821.0	6929.7	6058.1	5740.2	5399.5	5074.1	4742.2	4384.4	4006.8	3614.1	3208.1
42.5°	9864.3	9086.8	8121.5	6984.5	6002.9	5615.6	5222.4	4851.9	4459.5	4043.7	3614.1
40°	11324.7	10858.0	9962.4	8976.7	7736.9	6361.3	5747.0	5297.2	4888.7	4459.5	4006.8
37.5°	12401.6	11839.7	11292.7	10602.1	9479.4	8194.7	6660.6	5791.1	5297.2	4851.9	4384.4
35°	13648.4	12945.8	12253.8	11588.4	10922.0	9733.6	8348.4	6660.6	5747.0	5222.4	4742.2
32.5°	15217.3	14290.0	13317.0	12525.5	11738.2	10994.9	9733.6	8194.7	6361.3	5615.6	5074.1
30°	17389.5	15962.7	14682.8	13542.3	12616.9	11738.2	10922.0	9479.4	7736.9	6002.9	5399.5
27.5°	20310.5	18014.6	16354.3	14815.1	13542.3	12525.5	11588.4	10602.1	8976.7	6984.5	5740.2
25°	24125.9	20947.8	18321.2	16354.3	14682.8	13317.0	12253.8	11292.7	9962.4	8121.5	6058.1
22.5°	29376.1	24628.0	20947.8	18014.6	15962.7	14290.0	12945.8	11839.7	10858.0	9086.8	6929.7
20°	39269.4	29376.1	24125.9	20310.5	17389.5	15217.3	13648.4	12401.6	11324.7	9864.3	7821.0
17.5°	55091.9	37971.1	27539.1	22640.9	19060.3	16401.1	14430.7	12937.8	11745.7	10564.0	8621.4
15°	73257.8	49622.3	34143.1	25488.2	20812.6	17480.2	15126.6	13418.1	12137.2	11027.4	9209.9
12.5°	96374.5	63591.4	40508.5	27985.7	22522.0	18646.0	15924.9	13972.9	12515.4	11322.9	9698.7
10°	117698.5	78301.6	49821.8	32889.8	24447.0	19822.4	16645.1	14435.0	12829.6	11568.0	10103.4
7.5°	139636.5	92873.4	58525.4	36821.2	25978.9	20755.5	17214.8	14799.6	13077.2	11760.8	10421.3
5°	155935.2	103616.2	64904.9	39690.0	27093.0	21432.2	17627.0	15063.0	13255.7	11899.6	10650.1
2.5°	165992.5	110206.8	68802.1	41437.0	27769.8	21842.4	17876.5	15222.2	13363.5	11983.4	10788.0
0°	169394.3	112429.1	70113.2	42023.7	27996.8	21979.9	17960.1	15275.5	13399.6	12011.4	10834.1
-2.5°	165992.5	110206.8	68802.1	41437.0	27769.8	21842.4	17876.5	15222.2	13363.5	11983.4	10788.0
-5°	155935.2	103616.2	64904.9	39690.0	27093.0	21432.2	17627.0	15063.0	13255.7	11899.6	10650.1
-7.5°	139636.5	92873.4	58525.4	36821.2	25978.9	20755.5	17214.8	14799.6	13077.2	11760.8	10421.3
-10°	117698.5	78301.6	49821.8	32889.8	24447.0	19822.4	16645.1	14435.0	12829.6	11568.0	10103.4
-12.5°	96374.5	63591.4	40508.5	27985.7	22522.0	18646.0	15924.9	13972.9	12515.4	11322.9	9698.7
-15°	73257.8	49622.3	34143.1	25488.2	20812.6	17480.2	15126.6	13418.1	12137.2	11027.4	9209.9
-17.5°	55091.9	37971.1	27539.1	22640.9	19060.3	16401.1	14430.7	12937.8	11745.7	10564.0	8621.4
-20°	39269.4	29376.1	24125.9	20310.5	17389.5	15217.3	13648.4	12401.6	11324.7	9864.3	7821.0



REPORT NUMBER: P699992 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3S-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	29376.1	24628.0	20947.8	18014.6	15962.7	14290.0	12945.8	11839.7	10858.0	9086.8	6929.7
-25°	24125.9	20947.8	18321.2	16354.3	14682.8	13317.0	12253.8	11292.7	9962.4	8121.5	6058.1
-27.5°	20310.5	18014.6	16354.3	14815.1	13542.3	12525.5	11588.4	10602.1	8976.7	6984.5	5740.2
-30°	17389.5	15962.7	14682.8	13542.3	12616.9	11738.2	10922.0	9479.4	7736.9	6002.9	5399.5
-32.5°	15217.3	14290.0	13317.0	12525.5	11738.2	10994.9	9733.6	8194.7	6361.3	5615.6	5074.1
-35°	13648.4	12945.8	12253.8	11588.4	10922.0	9733.6	8348.4	6660.6	5747.0	5222.4	4742.2
-37.5°	12401.6	11839.7	11292.7	10602.1	9479.4	8194.7	6660.6	5791.1	5297.2	4851.9	4384.4
-40°	11324.7	10858.0	9962.4	8976.7	7736.9	6361.3	5747.0	5297.2	4888.7	4459.5	4006.8
-42.5°	9864.3	9086.8	8121.5	6984.5	6002.9	5615.6	5222.4	4851.9	4459.5	4043.7	3614.1
-45°	7821.0	6929.7	6058.1	5740.2	5399.5	5074.1	4742.2	4384.4	4006.8	3614.1	3208.1
-47.5°	5917.5	5669.8	5397.6	5130.5	4854.9	4558.5	4235.6	3896.4	3541.3	3177.0	2846.7
-50°	5224.0	5025.2	4806.4	4565.9	4299.5	4015.5	3714.1	3396.9	3084.3	2785.6	2489.5
-52.5°	4603.5	4412.8	4202.6	3973.9	3726.9	3462.9	3186.4	2931.4	2664.2	2410.0	2155.1
-55°	3954.6	3779.1	3585.4	3374.2	3154.8	2944.1	2720.3	2496.9	2278.7	2050.8	1824.3
-57.5°	3300.8	3149.4	2996.0	2828.6	2647.8	2470.4	2289.0	2097.3	1902.7	1701.6	1496.8
-60°	2720.3	2593.9	2470.4	2335.9	2190.4	2035.0	1876.4	1708.6	1532.1	1370.6	1203.0
-62.5°	2202.7	2101.9	1992.9	1876.4	1750.2	1614.8	1477.9	1344.9	1204.8	1060.3	926.8
-65°	1714.5	1627.9	1532.1	1440.2	1341.2	1234.9	1121.5	1010.8	900.4	784.6	666.8
-67.5°	1270.1	1203.0	1128.6	1050.7	973.7	890.9	802.5	708.8	623.0	538.2	449.6
-70°	878.0	826.4	769.2	706.6	646.5	586.8	523.0	455.3	383.8	327.4	277.6
-72.5°	541.5	504.9	464.4	420.0	371.7	334.4	299.2	261.9	222.4	181.0	149.2
-75°	284.2	264.5	242.7	218.7	192.7	164.6	148.1	136.5	124.2	111.2	97.7
-77.5°	133.1	127.1	120.5	113.3	105.4	96.9	87.8	80.4	77.0	73.5	69.8
-80°	75.5	74.0	72.2	70.3	68.3	66.0	63.6	61.1	58.4	55.8	53.4
-82.5°	53.3	52.3	51.3	50.1	48.8	47.4	45.9	44.4	42.7	40.9	39.1
-85°	34.9	34.4	33.8	33.2	32.6	31.9	31.2	30.4	29.5	28.6	27.7
-87.5°	20.1	19.8	19.4	19.0	18.5	18.0	17.5	17.0	16.4	15.8	15.1
-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: P699992 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3S-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°	14.5	13.8	13.0	12.3	11.5	10.7	9.9	9.0	8.2	7.3	6.4
85°	26.8	25.8	24.7	23.6	22.5	21.4	19.7	18.1	16.4	14.6	12.9
82.5°	37.2	35.6	34.0	32.4	30.7	29.0	27.2	25.5	23.6	21.8	19.3
80°	50.8	48.1	45.4	42.5	39.6	36.6	34.2	31.9	29.4	26.9	24.4
77.5°	65.9	61.9	57.7	54.0	50.3	46.5	42.7	38.7	35.2	32.1	28.9
75°	83.6	77.4	72.3	67.2	61.8	56.5	51.8	47.1	42.3	37.3	33.4
72.5°	132.7	115.5	97.8	80.8	74.6	68.2	61.7	55.4	49.8	44.0	38.2
70°	225.9	172.1	141.5	120.5	99.0	80.0	72.5	64.9	57.2	50.6	44.0
67.5°	358.1	297.6	235.0	170.4	136.9	112.1	86.8	74.7	66.0	57.2	49.8
65°	564.1	457.7	352.0	280.3	206.7	146.9	118.7	90.1	74.7	64.9	55.4
62.5°	788.0	651.2	530.1	405.6	307.8	224.9	150.2	118.7	86.8	72.5	61.7
60°	1034.9	878.0	716.1	573.9	434.7	316.9	224.9	146.9	112.1	80.0	68.2
57.5°	1307.8	1112.5	932.3	752.2	588.6	434.7	307.8	206.7	136.9	99.0	74.6
55°	1589.9	1371.2	1154.5	950.5	752.2	573.9	405.6	280.3	170.4	120.5	80.8
52.5°	1898.5	1639.0	1392.4	1154.5	932.3	716.1	530.1	352.0	235.0	141.5	97.8
50°	2207.7	1923.4	1639.0	1371.2	1112.5	878.0	651.2	457.7	297.6	172.1	115.5
47.5°	2516.2	2207.7	1898.5	1589.9	1307.8	1034.9	788.0	564.1	358.1	225.9	132.7
45°	2846.7	2489.5	2155.1	1824.3	1496.8	1203.0	926.8	666.8	449.6	277.6	149.2
42.5°	3177.0	2785.6	2410.0	2050.8	1701.6	1370.6	1060.3	784.6	538.2	327.4	181.0
40°	3541.3	3084.3	2664.2	2278.7	1902.7	1532.1	1204.8	900.4	623.0	383.8	222.4
37.5°	3896.4	3396.9	2931.4	2496.9	2097.3	1708.6	1344.9	1010.8	708.8	455.3	261.9
35°	4235.6	3714.1	3186.4	2720.3	2289.0	1876.4	1477.9	1121.5	802.5	523.0	299.2
32.5°	4558.5	4015.5	3462.9	2944.1	2470.4	2035.0	1614.8	1234.9	890.9	586.8	334.4
30°	4854.9	4299.5	3726.9	3154.8	2647.8	2190.4	1750.2	1341.2	973.7	646.5	371.7
27.5°	5130.5	4565.9	3973.9	3374.2	2828.6	2335.9	1876.4	1440.2	1050.7	706.6	420.0
25°	5397.6	4806.4	4202.6	3585.4	2996.0	2470.4	1992.9	1532.1	1128.6	769.2	464.4
22.5°	5669.8	5025.2	4412.8	3779.1	3149.4	2593.9	2101.9	1627.9	1203.0	826.4	504.9
20°	5917.5	5224.0	4603.5	3954.6	3300.8	2720.3	2202.7	1714.5	1270.1	878.0	541.5
17.5°	6223.7	5414.6	4768.3	4110.9	3444.0	2832.9	2292.5	1791.5	1329.8	923.8	573.9
15°	6873.4	5594.3	4911.8	4247.8	3569.2	2931.4	2370.8	1858.6	1381.8	963.7	602.2
12.5°	7430.0	5748.0	5034.4	4364.6	3676.1	3015.3	2437.6	1915.9	1426.1	997.7	626.2
10°	7890.3	5875.0	5135.5	4461.0	3764.1	3084.3	2492.5	1962.9	1462.6	1025.6	646.0
7.5°	8251.4	5974.5	5214.7	4536.4	3833.0	3138.3	2535.5	1999.7	1491.0	1047.4	661.4
5°	8511.1	6046.0	5271.6	4590.5	3882.4	3177.0	2566.2	2026.0	1511.4	1063.0	672.5
2.5°	8667.5	6089.1	5305.9	4623.0	3912.1	3200.3	2584.7	2041.8	1523.6	1072.4	679.1
0°	8719.8	6103.5	5317.3	4633.9	3922.0	3208.1	2590.9	2047.1	1527.7	1075.5	681.3
-2.5°	8667.5	6089.1	5305.9	4623.0	3912.1	3200.3	2584.7	2041.8	1523.6	1072.4	679.1
-5°	8511.1	6046.0	5271.6	4590.5	3882.4	3177.0	2566.2	2026.0	1511.4	1063.0	672.5
-7.5°	8251.4	5974.5	5214.7	4536.4	3833.0	3138.3	2535.5	1999.7	1491.0	1047.4	661.4
-10°	7890.3	5875.0	5135.5	4461.0	3764.1	3084.3	2492.5	1962.9	1462.6	1025.6	646.0
-12.5°	7430.0	5748.0	5034.4	4364.6	3676.1	3015.3	2437.6	1915.9	1426.1	997.7	626.2
-15°	6873.4	5594.3	4911.8	4247.8	3569.2	2931.4	2370.8	1858.6	1381.8	963.7	602.2
-17.5°	6223.7	5414.6	4768.3	4110.9	3444.0	2832.9	2292.5	1791.5	1329.8	923.8	573.9
-20°	5917.5	5224.0	4603.5	3954.6	3300.8	2720.3	2202.7	1714.5	1270.1	878.0	541.5



REPORT NUMBER: P699992 (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°	5669.8	5025.2	4412.8	3779.1	3149.4	2593.9	2101.9	1627.9	1203.0	826.4	504.9
-25°	5397.6	4806.4	4202.6	3585.4	2996.0	2470.4	1992.9	1532.1	1128.6	769.2	464.4
-27.5°	5130.5	4565.9	3973.9	3374.2	2828.6	2335.9	1876.4	1440.2	1050.7	706.6	420.0
-30°	4854.9	4299.5	3726.9	3154.8	2647.8	2190.4	1750.2	1341.2	973.7	646.5	371.7
-32.5°	4558.5	4015.5	3462.9	2944.1	2470.4	2035.0	1614.8	1234.9	890.9	586.8	334.4
-35°	4235.6	3714.1	3186.4	2720.3	2289.0	1876.4	1477.9	1121.5	802.5	523.0	299.2
-37.5°	3896.4	3396.9	2931.4	2496.9	2097.3	1708.6	1344.9	1010.8	708.8	455.3	261.9
-40°	3541.3	3084.3	2664.2	2278.7	1902.7	1532.1	1204.8	900.4	623.0	383.8	222.4
-42.5°	3177.0	2785.6	2410.0	2050.8	1701.6	1370.6	1060.3	784.6	538.2	327.4	181.0
-45°	2846.7	2489.5	2155.1	1824.3	1496.8	1203.0	926.8	666.8	449.6	277.6	149.2
-47.5°	2516.2	2207.7	1898.5	1589.9	1307.8	1034.9	788.0	564.1	358.1	225.9	132.7
-50°	2207.7	1923.4	1639.0	1371.2	1112.5	878.0	651.2	457.7	297.6	172.1	115.5
-52.5°	1898.5	1639.0	1392.4	1154.5	932.3	716.1	530.1	352.0	235.0	141.5	97.8
-55°	1589.9	1371.2	1154.5	950.5	752.2	573.9	405.6	280.3	170.4	120.5	80.8
-57.5°	1307.8	1112.5	932.3	752.2	588.6	434.7	307.8	206.7	136.9	99.0	74.6
-60°	1034.9	878.0	716.1	573.9	434.7	316.9	224.9	146.9	112.1	80.0	68.2
-62.5°	788.0	651.2	530.1	405.6	307.8	224.9	150.2	118.7	86.8	72.5	61.7
-65°	564.1	457.7	352.0	280.3	206.7	146.9	118.7	90.1	74.7	64.9	55.4
-67.5°	358.1	297.6	235.0	170.4	136.9	112.1	86.8	74.7	66.0	57.2	49.8
-70°	225.9	172.1	141.5	120.5	99.0	80.0	72.5	64.9	57.2	50.6	44.0
-72.5°	132.7	115.5	97.8	80.8	74.6	68.2	61.7	55.4	49.8	44.0	38.2
-75°	83.6	77.4	72.3	67.2	61.8	56.5	51.8	47.1	42.3	37.3	33.4
-77.5°	65.9	61.9	57.7	54.0	50.3	46.5	42.7	38.7	35.2	32.1	28.9
-80°	50.8	48.1	45.4	42.5	39.6	36.6	34.2	31.9	29.4	26.9	24.4
-82.5°	37.2	35.6	34.0	32.4	30.7	29.0	27.2	25.5	23.6	21.8	19.3
-85°	26.8	25.8	24.7	23.6	22.5	21.4	19.7	18.1	16.4	14.6	12.9
-87.5°	14.5	13.8	13.0	12.3	11.5	10.7	9.9	9.0	8.2	7.3	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	1.9	0.9	0.0
85°	11.1	9.3	7.4	5.6	3.7	1.9	0.0
82.5°	16.6	13.9	11.1	8.4	5.6	2.8	0.0
80°	21.9	18.4	14.8	11.1	7.4	3.7	0.0
77.5°	25.8	22.5	18.4	13.9	9.3	4.6	0.0
75°	29.6	25.8	21.9	16.6	11.1	5.5	0.0
72.5°	33.4	28.9	24.4	19.3	12.9	6.4	0.0
70°	37.3	32.1	26.9	21.8	14.6	7.3	0.0
67.5°	42.3	35.2	29.4	23.6	16.4	8.2	0.0
65°	47.1	38.7	31.9	25.5	18.1	9.0	0.0
62.5°	51.8	42.7	34.2	27.2	19.7	9.9	0.0
60°	56.5	46.5	36.6	29.0	21.4	10.7	0.0
57.5°	61.8	50.3	39.6	30.7	22.5	11.5	0.0
55°	67.2	54.0	42.5	32.4	23.6	12.3	0.0
52.5°	72.3	57.7	45.4	34.0	24.7	13.0	0.0
50°	77.4	61.9	48.1	35.6	25.8	13.8	0.0
47.5°	83.6	65.9	50.8	37.2	26.8	14.5	0.0
45°	97.7	69.8	53.4	39.1	27.7	15.1	0.0
42.5°	111.2	73.5	55.8	40.9	28.6	15.8	0.0
40°	124.2	77.0	58.4	42.7	29.5	16.4	0.0
37.5°	136.5	80.4	61.1	44.4	30.4	17.0	0.0
35°	148.1	87.8	63.6	45.9	31.2	17.5	0.0
32.5°	164.6	96.9	66.0	47.4	31.9	18.0	0.0
30°	192.7	105.4	68.3	48.8	32.6	18.5	0.0
27.5°	218.7	113.3	70.3	50.1	33.2	19.0	0.0
25°	242.7	120.5	72.2	51.3	33.8	19.4	0.0
22.5°	264.5	127.1	74.0	52.3	34.4	19.8	0.0
20°	284.2	133.1	75.5	53.3	34.9	20.1	0.0
17.5°	301.7	138.3	76.9	54.2	35.3	20.4	0.0
15°	316.9	142.9	78.1	54.9	35.7	20.7	0.0
12.5°	329.9	146.9	79.2	55.5	36.0	20.9	0.0
10°	340.5	150.1	80.0	56.1	36.2	21.1	0.0
7.5°	348.8	152.6	80.7	56.5	36.4	21.2	0.0
5°	354.7	154.4	81.1	56.8	36.6	21.3	0.0
2.5°	358.3	155.4	81.4	56.9	36.7	21.4	0.0
0°	359.5	155.8	81.5	57.0	36.7	21.4	0.0
-2.5°	358.3	155.4	81.4	56.9	36.7	21.4	0.0
-5°	354.7	154.4	81.1	56.8	36.6	21.3	0.0
-7.5°	348.8	152.6	80.7	56.5	36.4	21.2	0.0
-10°	340.5	150.1	80.0	56.1	36.2	21.1	0.0
-12.5°	329.9	146.9	79.2	55.5	36.0	20.9	0.0
-15°	316.9	142.9	78.1	54.9	35.7	20.7	0.0
-17.5°	301.7	138.3	76.9	54.2	35.3	20.4	0.0
-20°	284.2	133.1	75.5	53.3	34.9	20.1	0.0



REPORT NUMBER: P699992 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	264.5	127.1	74.0	52.3	34.4	19.8	0.0
-25°	242.7	120.5	72.2	51.3	33.8	19.4	0.0
-27.5°	218.7	113.3	70.3	50.1	33.2	19.0	0.0
-30°	192.7	105.4	68.3	48.8	32.6	18.5	0.0
-32.5°	164.6	96.9	66.0	47.4	31.9	18.0	0.0
-35°	148.1	87.8	63.6	45.9	31.2	17.5	0.0
-37.5°	136.5	80.4	61.1	44.4	30.4	17.0	0.0
-40°	124.2	77.0	58.4	42.7	29.5	16.4	0.0
-42.5°	111.2	73.5	55.8	40.9	28.6	15.8	0.0
-45°	97.7	69.8	53.4	39.1	27.7	15.1	0.0
-47.5°	83.6	65.9	50.8	37.2	26.8	14.5	0.0
-50°	77.4	61.9	48.1	35.6	25.8	13.8	0.0
-52.5°	72.3	57.7	45.4	34.0	24.7	13.0	0.0
-55°	67.2	54.0	42.5	32.4	23.6	12.3	0.0
-57.5°	61.8	50.3	39.6	30.7	22.5	11.5	0.0
-60°	56.5	46.5	36.6	29.0	21.4	10.7	0.0
-62.5°	51.8	42.7	34.2	27.2	19.7	9.9	0.0
-65°	47.1	38.7	31.9	25.5	18.1	9.0	0.0
-67.5°	42.3	35.2	29.4	23.6	16.4	8.2	0.0
-70°	37.3	32.1	26.9	21.8	14.6	7.3	0.0
-72.5°	33.4	28.9	24.4	19.3	12.9	6.4	0.0
-75°	29.6	25.8	21.9	16.6	11.1	5.5	0.0
-77.5°	25.8	22.5	18.4	13.9	9.3	4.6	0.0
-80°	21.9	18.4	14.8	11.1	7.4	3.7	0.0
-82.5°	16.6	13.9	11.1	8.4	5.6	2.8	0.0
-85°	11.1	9.3	7.4	5.6	3.7	1.9	0.0
-87.5°	5.5	4.6	3.7	2.8	1.9	0.9	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)