

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: P699953 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-80-3S-S**

Issue Date: 8/10/2023

**Test Information**

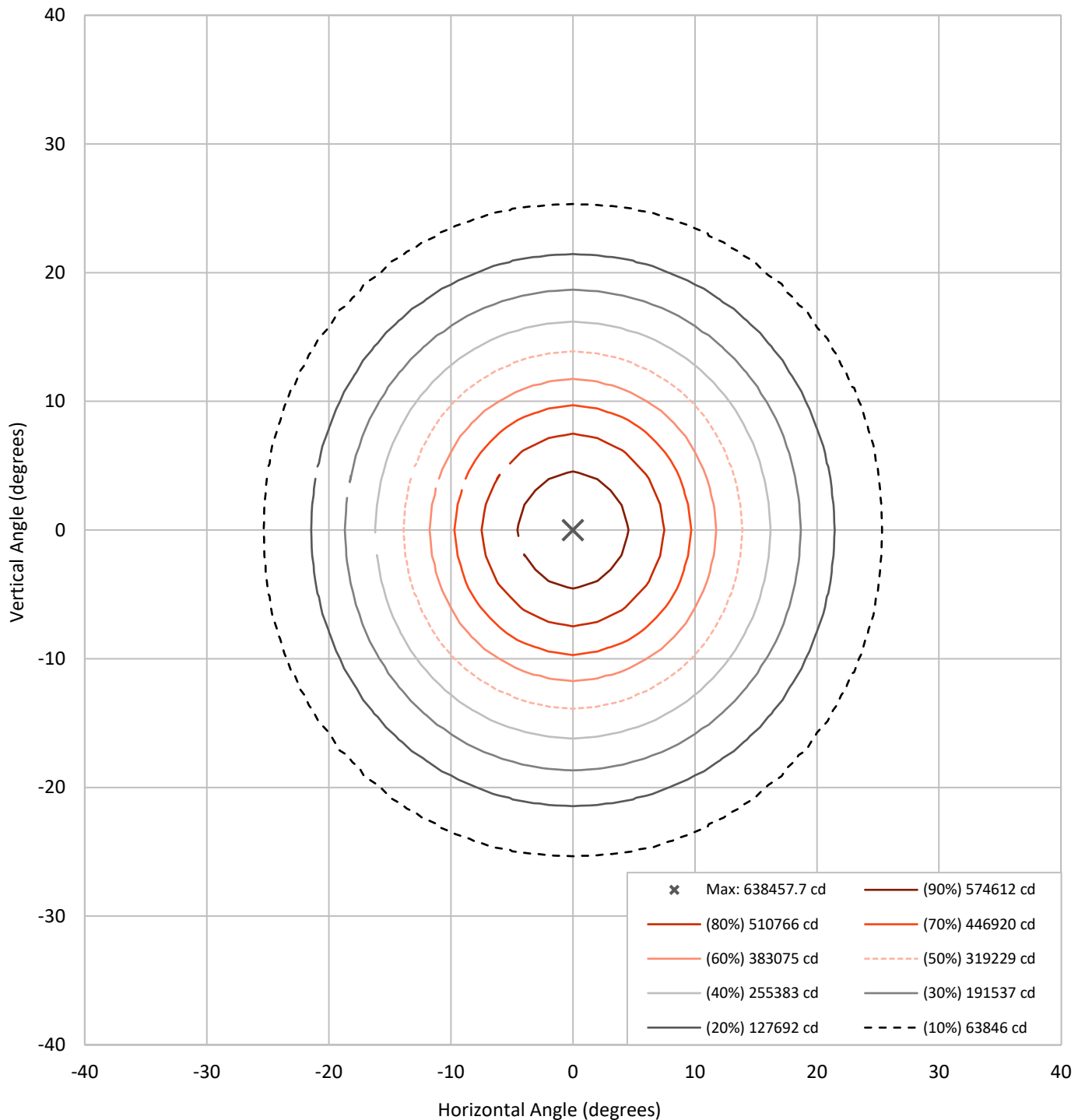
Test Method: LM-79-08  
Report Number: P699953 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200R-40-80-3S-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 4000K, 80 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:	186248 lumens	Max Intensity:	638457.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	149.6 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:	81875.2 lumens	Field Lumens:	152335.7 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





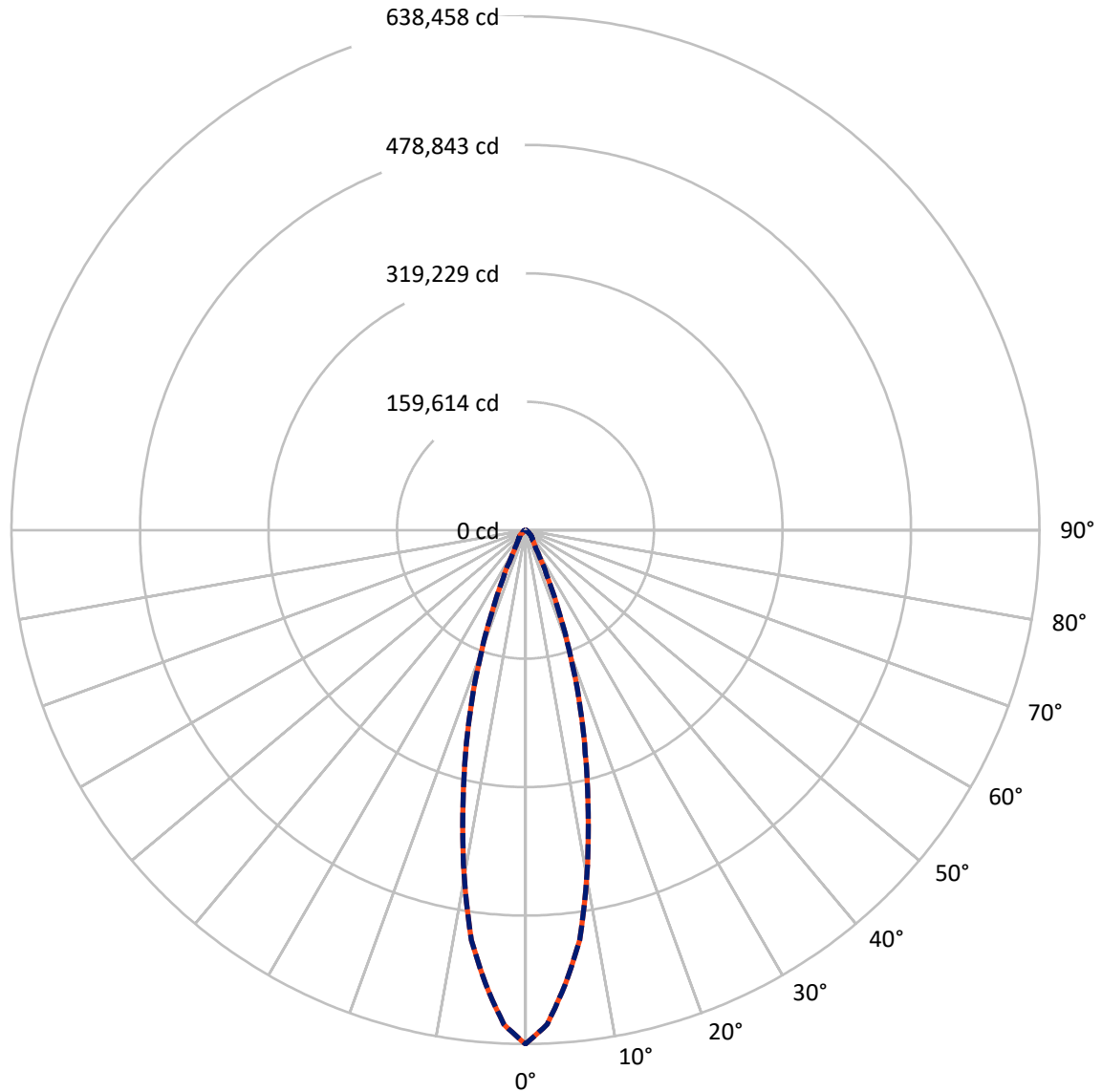
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### Lumen Table

90	0.4	2.3		8.7		20.8		27.0		20.8		8.7		2.3		0.4
80	0.4	2.3		8.7		20.8		27.0		20.8		8.7		2.3		0.4
70	1.1	1.3	5.2	14.2	26.9	40.5	51.9	58.2	58.2	51.9	40.5	26.9	14.2	5.2	1.3	1.1
60		3.9	16.0	37.2	64.3	93.0	116.6	129.9	129.9	116.6	93.0	64.3	37.2	16.0	3.9	
50	2.9	8.7	30.4	65.6	111.2	175.3	246.2	287.5	287.5	246.2	175.3	111.2	65.6	30.4	8.7	2.9
40		14.3	45.5	96.3	193.9	318.0	431.1	523.3	523.3	431.1	318.0	193.9	96.3	45.5	14.3	
30	6.0	19.5	59.5	137.8	288.0	499.1	1104.9	2069.8	2069.8	1104.9	499.1	288.0	137.8	59.5	19.5	6.0
20		23.4	70.1	182.1	367.2	1042.4	4073.9	7942.8	7942.8	4073.9	1042.4	367.2	182.1	70.1	23.4	
10	7.4	25.4	75.7	206.0	433.2	1902.5	7725.2	15048.0	15048.0	7725.2	1902.5	433.2	206.0	75.7	25.4	7.4
0		25.4	75.7	206.0	433.2	1902.5	7725.2	15048.0	15048.0	7725.2	1902.5	433.2	206.0	75.7	25.4	
-10	6.0	23.4	70.1	182.1	367.2	1042.4	4073.9	7942.8	7942.8	4073.9	1042.4	367.2	182.1	70.1	23.4	6.0
-20		19.5	59.5	137.8	288.0	499.1	1104.9	2069.8	2069.8	1104.9	499.1	288.0	137.8	59.5	19.5	
-30	2.9	14.3	45.5	96.3	193.9	318.0	431.1	523.3	523.3	431.1	318.0	193.9	96.3	45.5	14.3	2.9
-40		8.7	30.4	65.6	111.2	175.3	246.2	287.5	287.5	246.2	175.3	111.2	65.6	30.4	8.7	
-50	1.1	3.9	16.0	37.2	64.3	93.0	116.6	129.9	129.9	116.6	93.0	64.3	37.2	16.0	3.9	1.1
-60		1.3	5.2	14.2	26.9	40.5	51.9	58.2	58.2	51.9	40.5	26.9	14.2	5.2	1.3	
-70	0.4	2.3		8.7		20.8		27.0		20.8		8.7		2.3		0.4
-80		2.3		8.7		20.8		27.0		20.8		8.7		2.3		
-90	0.4	2.3		8.7		20.8		27.0		20.8		8.7		2.3		0.4

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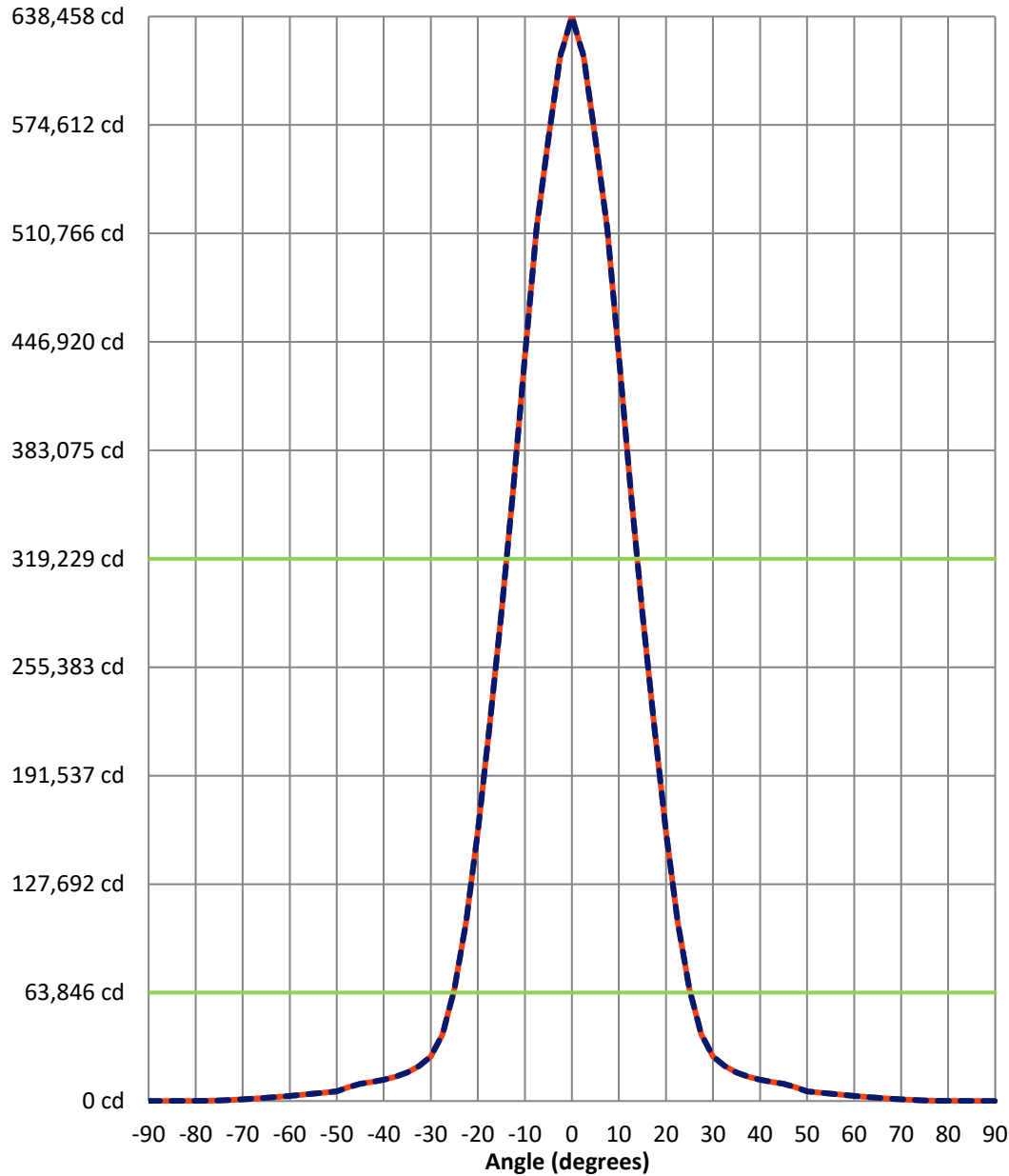
### Luminous Intensity Polar Plot



— 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: 81875.2  
 Efficiency: 44.0%

**Field:**  
 H Angle: 50.4°  
 V Angle: 50.4°  
 Lumens: 152335.7  
 Efficiency: 81.8%

**Spill:**  
 Lumens: 33912.3  
 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	1.7	2.6	3.5	4.3	5.2	6.0	6.8	7.7	8.5
85°	0.0	1.7	3.5	5.2	6.9	8.6	10.3	12.0	13.7	15.3	16.9
82.5°	0.0	2.6	5.2	7.8	10.4	13.0	15.5	18.0	20.3	22.1	23.8
80°	0.0	3.5	6.9	10.4	13.8	17.2	20.4	22.8	25.2	27.5	29.8
77.5°	0.0	4.3	8.6	13.0	17.2	21.1	24.1	27.1	30.1	33.0	36.3
75°	0.0	5.2	10.3	15.5	20.4	24.1	27.7	31.3	35.0	39.6	44.1
72.5°	0.0	6.0	12.0	18.0	22.8	27.1	31.3	35.8	41.3	46.6	51.9
70°	0.0	6.8	13.7	20.3	25.2	30.1	35.0	41.3	47.5	53.6	60.8
67.5°	0.0	7.7	15.3	22.1	27.5	33.0	39.6	46.6	53.6	61.8	70.0
65°	0.0	8.5	16.9	23.8	29.8	36.3	44.1	51.9	60.8	70.0	84.3
62.5°	0.0	9.2	18.5	25.5	32.1	40.0	48.6	57.8	67.9	81.3	111.2
60°	0.0	10.0	20.0	27.2	34.3	43.6	52.9	63.9	74.9	105.0	137.6
57.5°	0.0	10.7	21.1	28.8	37.1	47.2	57.9	69.9	92.7	128.3	193.7
55°	0.0	11.5	22.1	30.3	39.8	50.6	62.9	75.7	112.9	159.7	262.7
52.5°	0.0	12.2	23.1	31.9	42.5	54.1	67.7	91.6	132.5	220.2	329.8
50°	0.0	12.9	24.1	33.3	45.1	58.0	72.4	108.2	161.3	278.8	428.8
47.5°	0.0	13.5	25.0	34.8	47.6	61.7	78.3	124.3	211.6	335.5	528.6
45°	0.0	14.1	26.0	36.6	50.0	65.3	91.5	139.8	260.1	421.2	624.9
42.5°	0.0	14.7	26.8	38.4	52.3	68.8	104.2	169.6	306.7	504.3	735.1
40°	0.0	15.3	27.7	40.0	54.7	72.1	116.3	208.4	359.6	583.7	843.7
37.5°	0.0	15.9	28.4	41.6	57.2	75.3	127.9	245.4	426.6	664.1	947.1
35°	0.0	16.4	29.2	43.0	59.6	82.2	138.8	280.3	490.0	752.0	1050.8
32.5°	0.0	16.9	29.9	44.4	61.8	90.7	154.3	313.2	549.8	834.8	1157.1
30°	0.0	17.3	30.5	45.7	63.9	98.7	180.5	348.3	605.8	912.4	1256.7
27.5°	0.0	17.7	31.1	46.9	65.9	106.1	204.9	393.5	662.1	984.5	1349.4
25°	0.0	18.1	31.7	48.0	67.6	112.9	227.4	435.1	720.8	1057.4	1435.5
22.5°	0.0	18.5	32.2	49.0	69.3	119.1	247.8	473.1	774.3	1127.2	1525.3
20°	0.0	18.8	32.7	49.9	70.7	124.7	266.3	507.4	822.6	1190.0	1606.4
17.5°	0.0	19.1	33.1	50.7	72.0	129.6	282.7	537.8	865.6	1246.0	1678.5
15°	0.0	19.3	33.4	51.4	73.1	133.9	296.9	564.3	903.0	1294.7	1741.4
12.5°	0.0	19.5	33.7	52.0	74.1	137.6	309.0	586.8	934.8	1336.2	1795.0
10°	0.0	19.7	34.0	52.5	74.9	140.6	319.0	605.3	960.9	1370.4	1839.1
7.5°	0.0	19.8	34.2	52.9	75.5	143.0	326.8	619.8	981.4	1397.0	1873.6
5°	0.0	19.9	34.3	53.2	75.9	144.7	332.3	630.1	996.0	1416.1	1898.2
2.5°	0.0	20.0	34.4	53.3	76.2	145.7	335.7	636.3	1004.8	1427.6	1913.1
0°	0.0	20.0	34.4	53.4	76.3	146.0	336.8	638.4	1007.7	1431.4	1918.0
-2.5°	0.0	20.0	34.4	53.3	76.2	145.7	335.7	636.3	1004.8	1427.6	1913.1
-5°	0.0	19.9	34.3	53.2	75.9	144.7	332.3	630.1	996.0	1416.1	1898.2
-7.5°	0.0	19.8	34.2	52.9	75.5	143.0	326.8	619.8	981.4	1397.0	1873.6
-10°	0.0	19.7	34.0	52.5	74.9	140.6	319.0	605.3	960.9	1370.4	1839.1
-12.5°	0.0	19.5	33.7	52.0	74.1	137.6	309.0	586.8	934.8	1336.2	1795.0
-15°	0.0	19.3	33.4	51.4	73.1	133.9	296.9	564.3	903.0	1294.7	1741.4
-17.5°	0.0	19.1	33.1	50.7	72.0	129.6	282.7	537.8	865.6	1246.0	1678.5
-20°	0.0	18.8	32.7	49.9	70.7	124.7	266.3	507.4	822.6	1190.0	1606.4



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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	18.5	32.2	49.0	69.3	119.1	247.8	473.1	774.3	1127.2	1525.3
-25°	0.0	18.1	31.7	48.0	67.6	112.9	227.4	435.1	720.8	1057.4	1435.5
-27.5°	0.0	17.7	31.1	46.9	65.9	106.1	204.9	393.5	662.1	984.5	1349.4
-30°	0.0	17.3	30.5	45.7	63.9	98.7	180.5	348.3	605.8	912.4	1256.7
-32.5°	0.0	16.9	29.9	44.4	61.8	90.7	154.3	313.2	549.8	834.8	1157.1
-35°	0.0	16.4	29.2	43.0	59.6	82.2	138.8	280.3	490.0	752.0	1050.8
-37.5°	0.0	15.9	28.4	41.6	57.2	75.3	127.9	245.4	426.6	664.1	947.1
-40°	0.0	15.3	27.7	40.0	54.7	72.1	116.3	208.4	359.6	583.7	843.7
-42.5°	0.0	14.7	26.8	38.4	52.3	68.8	104.2	169.6	306.7	504.3	735.1
-45°	0.0	14.1	26.0	36.6	50.0	65.3	91.5	139.8	260.1	421.2	624.9
-47.5°	0.0	13.5	25.0	34.8	47.6	61.7	78.3	124.3	211.6	335.5	528.6
-50°	0.0	12.9	24.1	33.3	45.1	58.0	72.4	108.2	161.3	278.8	428.8
-52.5°	0.0	12.2	23.1	31.9	42.5	54.1	67.7	91.6	132.5	220.2	329.8
-55°	0.0	11.5	22.1	30.3	39.8	50.6	62.9	75.7	112.9	159.7	262.7
-57.5°	0.0	10.7	21.1	28.8	37.1	47.2	57.9	69.9	92.7	128.3	193.7
-60°	0.0	10.0	20.0	27.2	34.3	43.6	52.9	63.9	74.9	105.0	137.6
-62.5°	0.0	9.2	18.5	25.5	32.1	40.0	48.6	57.8	67.9	81.3	111.2
-65°	0.0	8.5	16.9	23.8	29.8	36.3	44.1	51.9	60.8	70.0	84.3
-67.5°	0.0	7.7	15.3	22.1	27.5	33.0	39.6	46.6	53.6	61.8	70.0
-70°	0.0	6.8	13.7	20.3	25.2	30.1	35.0	41.3	47.5	53.6	60.8
-72.5°	0.0	6.0	12.0	18.0	22.8	27.1	31.3	35.8	41.3	46.6	51.9
-75°	0.0	5.2	10.3	15.5	20.4	24.1	27.7	31.3	35.0	39.6	44.1
-77.5°	0.0	4.3	8.6	13.0	17.2	21.1	24.1	27.1	30.1	33.0	36.3
-80°	0.0	3.5	6.9	10.4	13.8	17.2	20.4	22.8	25.2	27.5	29.8
-82.5°	0.0	2.6	5.2	7.8	10.4	13.0	15.5	18.0	20.3	22.1	23.8
-85°	0.0	1.7	3.5	5.2	6.9	8.6	10.3	12.0	13.7	15.3	16.9
-87.5°	0.0	0.9	1.7	2.6	3.5	4.3	5.2	6.0	6.8	7.7	8.5
-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°	9.2	10.0	10.7	11.5	12.2	12.9	13.5	14.1	14.7	15.3	15.9
85°	18.5	20.0	21.1	22.1	23.1	24.1	25.0	26.0	26.8	27.7	28.4
82.5°	25.5	27.2	28.8	30.3	31.9	33.3	34.8	36.6	38.4	40.0	41.6
80°	32.1	34.3	37.1	39.8	42.5	45.1	47.6	50.0	52.3	54.7	57.2
77.5°	40.0	43.6	47.2	50.6	54.1	58.0	61.7	65.3	68.8	72.1	75.3
75°	48.6	52.9	57.9	62.9	67.7	72.4	78.3	91.5	104.2	116.3	127.9
72.5°	57.8	63.9	69.9	75.7	91.6	108.2	124.3	139.8	169.6	208.4	245.4
70°	67.9	74.9	92.7	112.9	132.5	161.3	211.6	260.1	306.7	359.6	426.6
67.5°	81.3	105.0	128.3	159.7	220.2	278.8	335.5	421.2	504.3	583.7	664.1
65°	111.2	137.6	193.7	262.7	329.8	428.8	528.6	624.9	735.1	843.7	947.1
62.5°	140.7	210.8	288.3	380.0	496.7	610.2	738.4	868.4	993.4	1128.9	1260.1
60°	210.8	296.9	407.2	537.8	671.0	822.6	969.7	1127.2	1284.2	1435.5	1600.9
57.5°	288.3	407.2	551.5	704.8	873.6	1042.3	1225.3	1402.5	1594.3	1782.7	1965.1
55°	380.0	537.8	704.8	890.6	1081.7	1284.8	1489.6	1709.2	1921.4	2135.0	2339.6
52.5°	496.7	671.0	873.6	1081.7	1304.6	1535.7	1778.8	2019.3	2258.1	2496.3	2746.6
50°	610.2	822.6	1042.3	1284.8	1535.7	1802.1	2068.5	2332.6	2610.0	2889.9	3182.8
47.5°	738.4	969.7	1225.3	1489.6	1778.8	2068.5	2357.6	2667.3	2976.8	3318.1	3650.9
45°	868.4	1127.2	1402.5	1709.2	2019.3	2332.6	2667.3	3005.9	3386.3	3754.2	4108.1
42.5°	993.4	1284.2	1594.3	1921.4	2258.1	2610.0	2976.8	3386.3	3788.9	4178.4	4546.0
40°	1128.9	1435.5	1782.7	2135.0	2496.3	2889.9	3318.1	3754.2	4178.4	4580.5	4963.3
37.5°	1260.1	1600.9	1965.1	2339.6	2746.6	3182.8	3650.9	4108.1	4546.0	4963.3	5426.1
35°	1384.8	1758.0	2144.7	2548.9	2985.5	3480.0	3968.6	4443.3	4893.2	5384.8	6240.8
32.5°	1513.0	1906.7	2314.7	2758.5	3244.6	3762.4	4271.2	4754.2	5261.7	5960.4	7678.2
30°	1639.9	2052.3	2480.9	2955.9	3492.0	4028.5	4548.9	5059.1	5624.5	7249.2	8881.9
27.5°	1758.0	2188.6	2650.4	3161.6	3723.4	4278.1	4807.1	5378.4	6544.3	8410.9	9933.8
25°	1867.2	2314.7	2807.2	3359.4	3937.7	4503.4	5057.4	5676.3	7609.6	9334.4	10580.9
22.5°	1969.4	2430.5	2950.9	3541.0	4134.6	4708.4	5312.4	6492.9	8514.1	10173.6	11093.4
20°	2063.8	2548.9	3092.7	3705.4	4313.3	4894.6	5544.5	7328.0	9242.5	10610.9	11619.9
17.5°	2147.9	2654.4	3226.9	3851.8	4467.8	5073.3	5831.4	8078.0	9898.1	11005.4	12122.3
15°	2221.4	2746.6	3344.3	3980.0	4602.1	5241.7	6440.2	8629.4	10332.3	11372.1	12572.3
12.5°	2283.9	2825.2	3444.4	4089.5	4717.0	5385.7	6961.7	9087.4	10609.2	11726.5	13092.2
10°	2335.4	2889.9	3526.9	4179.8	4811.8	5504.7	7393.0	9466.6	10838.9	12021.0	13525.1
7.5°	2375.6	2940.5	3591.4	4250.4	4886.0	5598.0	7731.3	9764.4	11019.5	12252.9	13866.8
5°	2404.5	2976.8	3637.7	4301.1	4939.3	5665.0	7974.6	9978.8	11149.5	12420.2	14113.6
2.5°	2421.8	2998.6	3665.5	4331.6	4971.4	5705.3	8121.2	10108.0	11228.1	12521.2	14262.8
0°	2427.6	3005.9	3674.8	4341.8	4982.1	5718.8	8170.2	10151.2	11254.3	12555.0	14312.7
-2.5°	2421.8	2998.6	3665.5	4331.6	4971.4	5705.3	8121.2	10108.0	11228.1	12521.2	14262.8
-5°	2404.5	2976.8	3637.7	4301.1	4939.3	5665.0	7974.6	9978.8	11149.5	12420.2	14113.6
-7.5°	2375.6	2940.5	3591.4	4250.4	4886.0	5598.0	7731.3	9764.4	11019.5	12252.9	13866.8
-10°	2335.4	2889.9	3526.9	4179.8	4811.8	5504.7	7393.0	9466.6	10838.9	12021.0	13525.1
-12.5°	2283.9	2825.2	3444.4	4089.5	4717.0	5385.7	6961.7	9087.4	10609.2	11726.5	13092.2
-15°	2221.4	2746.6	3344.3	3980.0	4602.1	5241.7	6440.2	8629.4	10332.3	11372.1	12572.3
-17.5°	2147.9	2654.4	3226.9	3851.8	4467.8	5073.3	5831.4	8078.0	9898.1	11005.4	12122.3
-20°	2063.8	2548.9	3092.7	3705.4	4313.3	4894.6	5544.5	7328.0	9242.5	10610.9	11619.9



REPORT NUMBER: P699953 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3S-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1969.4	2430.5	2950.9	3541.0	4134.6	4708.4	5312.4	6492.9	8514.1	10173.6	11093.4
-25°	1867.2	2314.7	2807.2	3359.4	3937.7	4503.4	5057.4	5676.3	7609.6	9334.4	10580.9
-27.5°	1758.0	2188.6	2650.4	3161.6	3723.4	4278.1	4807.1	5378.4	6544.3	8410.9	9933.8
-30°	1639.9	2052.3	2480.9	2955.9	3492.0	4028.5	4548.9	5059.1	5624.5	7249.2	8881.9
-32.5°	1513.0	1906.7	2314.7	2758.5	3244.6	3762.4	4271.2	4754.2	5261.7	5960.4	7678.2
-35°	1384.8	1758.0	2144.7	2548.9	2985.5	3480.0	3968.6	4443.3	4893.2	5384.8	6240.8
-37.5°	1260.1	1600.9	1965.1	2339.6	2746.6	3182.8	3650.9	4108.1	4546.0	4963.3	5426.1
-40°	1128.9	1435.5	1782.7	2135.0	2496.3	2889.9	3318.1	3754.2	4178.4	4580.5	4963.3
-42.5°	993.4	1284.2	1594.3	1921.4	2258.1	2610.0	2976.8	3386.3	3788.9	4178.4	4546.0
-45°	868.4	1127.2	1402.5	1709.2	2019.3	2332.6	2667.3	3005.9	3386.3	3754.2	4108.1
-47.5°	738.4	969.7	1225.3	1489.6	1778.8	2068.5	2357.6	2667.3	2976.8	3318.1	3650.9
-50°	610.2	822.6	1042.3	1284.8	1535.7	1802.1	2068.5	2332.6	2610.0	2889.9	3182.8
-52.5°	496.7	671.0	873.6	1081.7	1304.6	1535.7	1778.8	2019.3	2258.1	2496.3	2746.6
-55°	380.0	537.8	704.8	890.6	1081.7	1284.8	1489.6	1709.2	1921.4	2135.0	2339.6
-57.5°	288.3	407.2	551.5	704.8	873.6	1042.3	1225.3	1402.5	1594.3	1782.7	1965.1
-60°	210.8	296.9	407.2	537.8	671.0	822.6	969.7	1127.2	1284.2	1435.5	1600.9
-62.5°	140.7	210.8	288.3	380.0	496.7	610.2	738.4	868.4	993.4	1128.9	1260.1
-65°	111.2	137.6	193.7	262.7	329.8	428.8	528.6	624.9	735.1	843.7	947.1
-67.5°	81.3	105.0	128.3	159.7	220.2	278.8	335.5	421.2	504.3	583.7	664.1
-70°	67.9	74.9	92.7	112.9	132.5	161.3	211.6	260.1	306.7	359.6	426.6
-72.5°	57.8	63.9	69.9	75.7	91.6	108.2	124.3	139.8	169.6	208.4	245.4
-75°	48.6	52.9	57.9	62.9	67.7	72.4	78.3	91.5	104.2	116.3	127.9
-77.5°	40.0	43.6	47.2	50.6	54.1	58.0	61.7	65.3	68.8	72.1	75.3
-80°	32.1	34.3	37.1	39.8	42.5	45.1	47.6	50.0	52.3	54.7	57.2
-82.5°	25.5	27.2	28.8	30.3	31.9	33.3	34.8	36.6	38.4	40.0	41.6
-85°	18.5	20.0	21.1	22.1	23.1	24.1	25.0	26.0	26.8	27.7	28.4
-87.5°	9.2	10.0	10.7	11.5	12.2	12.9	13.5	14.1	14.7	15.3	15.9
-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: P699953 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3S-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°	16.4	16.9	17.3	17.7	18.1	18.5	18.8	19.1	19.3	19.5	19.7
85°	29.2	29.9	30.5	31.1	31.7	32.2	32.7	33.1	33.4	33.7	34.0
82.5°	43.0	44.4	45.7	46.9	48.0	49.0	49.9	50.7	51.4	52.0	52.5
80°	59.6	61.8	63.9	65.9	67.6	69.3	70.7	72.0	73.1	74.1	74.9
77.5°	82.2	90.7	98.7	106.1	112.9	119.1	124.7	129.6	133.9	137.6	140.6
75°	138.8	154.3	180.5	204.9	227.4	247.8	266.3	282.7	296.9	309.0	319.0
72.5°	280.3	313.2	348.3	393.5	435.1	473.1	507.4	537.8	564.3	586.8	605.3
70°	490.0	549.8	605.8	662.1	720.8	774.3	822.6	865.6	903.0	934.8	960.9
67.5°	752.0	834.8	912.4	984.5	1057.4	1127.2	1190.0	1246.0	1294.7	1336.2	1370.4
65°	1050.8	1157.1	1256.7	1349.4	1435.5	1525.3	1606.4	1678.5	1741.4	1795.0	1839.1
62.5°	1384.8	1513.0	1639.9	1758.0	1867.2	1969.4	2063.8	2147.9	2221.4	2283.9	2335.4
60°	1758.0	1906.7	2052.3	2188.6	2314.7	2430.5	2548.9	2654.4	2746.6	2825.2	2889.9
57.5°	2144.7	2314.7	2480.9	2650.4	2807.2	2950.9	3092.7	3226.9	3344.3	3444.4	3526.9
55°	2548.9	2758.5	2955.9	3161.6	3359.4	3541.0	3705.4	3851.8	3980.0	4089.5	4179.8
52.5°	2985.5	3244.6	3492.0	3723.4	3937.7	4134.6	4313.3	4467.8	4602.1	4717.0	4811.8
50°	3480.0	3762.4	4028.5	4278.1	4503.4	4708.4	4894.6	5073.3	5241.7	5385.7	5504.7
47.5°	3968.6	4271.2	4548.9	4807.1	5057.4	5312.4	5544.5	5831.4	6440.2	6961.7	7393.0
45°	4443.3	4754.2	5059.1	5378.4	5676.3	6492.9	7328.0	8078.0	8629.4	9087.4	9466.6
42.5°	4893.2	5261.7	5624.5	6544.3	7609.6	8514.1	9242.5	9898.1	10332.3	10609.2	10838.9
40°	5384.8	5960.4	7249.2	8410.9	9334.4	10173.6	10610.9	11005.4	11372.1	11726.5	12021.0
37.5°	6240.8	7678.2	8881.9	9933.8	10580.9	11093.4	11619.9	12122.3	12572.3	13092.2	13525.1
35°	7822.2	9120.0	10233.6	10858.0	11481.5	12129.8	12788.1	13521.2	14173.2	14921.2	15596.0
32.5°	9120.0	10301.9	10998.3	11736.0	12477.6	13389.3	14258.2	15367.3	16378.5	17470.8	18573.0
30°	10233.6	10998.3	11821.6	12688.7	13757.3	14956.6	16293.5	17858.9	19500.8	21102.4	22906.0
27.5°	10858.0	11736.0	12688.7	13881.3	15323.5	16879.2	19030.4	21213.8	23881.6	26221.7	30816.7
25°	11481.5	12477.6	13757.3	15323.5	17166.4	19627.5	22605.3	25803.3	31991.0	37955.2	46681.5
22.5°	12129.8	13389.3	14956.6	16879.2	19627.5	23075.7	27524.5	35577.7	46494.5	59583.1	73366.2
20°	12788.1	14258.2	16293.5	19030.4	22605.3	27524.5	36794.2	51619.4	68640.3	90300.0	110279.9
17.5°	13521.2	15367.3	17858.9	21213.8	25803.3	35577.7	51619.4	72780.3	99079.2	129009.3	157058.0
15°	14173.2	16378.5	19500.8	23881.6	31991.0	46494.5	68640.3	99079.2	135433.5	172838.3	209452.8
12.5°	14921.2	17470.8	21102.4	26221.7	37955.2	59583.1	90300.0	129009.3	172838.3	218345.7	261734.5
10°	15596.0	18573.0	22906.0	30816.7	46681.5	73366.2	110279.9	157058.0	209452.8	261734.5	313183.3
7.5°	16129.8	19447.3	24341.5	34500.3	54836.5	87019.5	130835.1	183806.7	241294.3	300295.0	360225.0
5°	16516.0	20081.3	25385.3	37188.3	60813.9	97085.2	146106.5	204098.1	266083.8	332149.7	399317.4
2.5°	16749.8	20465.7	26019.4	38825.1	64465.4	103260.4	155529.8	216721.9	281691.9	352479.4	427834.2
0°	16828.1	20594.5	26232.1	39374.9	65693.9	105342.6	158717.2	221011.1	287031.3	359558.5	438082.1
-2.5°	16749.8	20465.7	26019.4	38825.1	64465.4	103260.4	155529.8	216721.9	281691.9	352479.4	427834.2
-5°	16516.0	20081.3	25385.3	37188.3	60813.9	97085.2	146106.5	204098.1	266083.8	332149.7	399317.4
-7.5°	16129.8	19447.3	24341.5	34500.3	54836.5	87019.5	130835.1	183806.7	241294.3	300295.0	360225.0
-10°	15596.0	18573.0	22906.0	30816.7	46681.5	73366.2	110279.9	157058.0	209452.8	261734.5	313183.3
-12.5°	14921.2	17470.8	21102.4	26221.7	37955.2	59583.1	90300.0	129009.3	172838.3	218345.7	261734.5
-15°	14173.2	16378.5	19500.8	23881.6	31991.0	46494.5	68640.3	99079.2	135433.5	172838.3	209452.8
-17.5°	13521.2	15367.3	17858.9	21213.8	25803.3	35577.7	51619.4	72780.3	99079.2	129009.3	157058.0
-20°	12788.1	14258.2	16293.5	19030.4	22605.3	27524.5	36794.2	51619.4	68640.3	90300.0	110279.9



REPORT NUMBER: P699953 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3S-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	12129.8	13389.3	14956.6	16879.2	19627.5	23075.7	27524.5	35577.7	46494.5	59583.1	73366.2
-25°	11481.5	12477.6	13757.3	15323.5	17166.4	19627.5	22605.3	25803.3	31991.0	37955.2	46681.5
-27.5°	10858.0	11736.0	12688.7	13881.3	15323.5	16879.2	19030.4	21213.8	23881.6	26221.7	30816.7
-30°	10233.6	10998.3	11821.6	12688.7	13757.3	14956.6	16293.5	17858.9	19500.8	21102.4	22906.0
-32.5°	9120.0	10301.9	10998.3	11736.0	12477.6	13389.3	14258.2	15367.3	16378.5	17470.8	18573.0
-35°	7822.2	9120.0	10233.6	10858.0	11481.5	12129.8	12788.1	13521.2	14173.2	14921.2	15596.0
-37.5°	6240.8	7678.2	8881.9	9933.8	10580.9	11093.4	11619.9	12122.3	12572.3	13092.2	13525.1
-40°	5384.8	5960.4	7249.2	8410.9	9334.4	10173.6	10610.9	11005.4	11372.1	11726.5	12021.0
-42.5°	4893.2	5261.7	5624.5	6544.3	7609.6	8514.1	9242.5	9898.1	10332.3	10609.2	10838.9
-45°	4443.3	4754.2	5059.1	5378.4	5676.3	6492.9	7328.0	8078.0	8629.4	9087.4	9466.6
-47.5°	3968.6	4271.2	4548.9	4807.1	5057.4	5312.4	5544.5	5831.4	6440.2	6961.7	7393.0
-50°	3480.0	3762.4	4028.5	4278.1	4503.4	4708.4	4894.6	5073.3	5241.7	5385.7	5504.7
-52.5°	2985.5	3244.6	3492.0	3723.4	3937.7	4134.6	4313.3	4467.8	4602.1	4717.0	4811.8
-55°	2548.9	2758.5	2955.9	3161.6	3359.4	3541.0	3705.4	3851.8	3980.0	4089.5	4179.8
-57.5°	2144.7	2314.7	2480.9	2650.4	2807.2	2950.9	3092.7	3226.9	3344.3	3444.4	3526.9
-60°	1758.0	1906.7	2052.3	2188.6	2314.7	2430.5	2548.9	2654.4	2746.6	2825.2	2889.9
-62.5°	1384.8	1513.0	1639.9	1758.0	1867.2	1969.4	2063.8	2147.9	2221.4	2283.9	2335.4
-65°	1050.8	1157.1	1256.7	1349.4	1435.5	1525.3	1606.4	1678.5	1741.4	1795.0	1839.1
-67.5°	752.0	834.8	912.4	984.5	1057.4	1127.2	1190.0	1246.0	1294.7	1336.2	1370.4
-70°	490.0	549.8	605.8	662.1	720.8	774.3	822.6	865.6	903.0	934.8	960.9
-72.5°	280.3	313.2	348.3	393.5	435.1	473.1	507.4	537.8	564.3	586.8	605.3
-75°	138.8	154.3	180.5	204.9	227.4	247.8	266.3	282.7	296.9	309.0	319.0
-77.5°	82.2	90.7	98.7	106.1	112.9	119.1	124.7	129.6	133.9	137.6	140.6
-80°	59.6	61.8	63.9	65.9	67.6	69.3	70.7	72.0	73.1	74.1	74.9
-82.5°	43.0	44.4	45.7	46.9	48.0	49.0	49.9	50.7	51.4	52.0	52.5
-85°	29.2	29.9	30.5	31.1	31.7	32.2	32.7	33.1	33.4	33.7	34.0
-87.5°	16.4	16.9	17.3	17.7	18.1	18.5	18.8	19.1	19.3	19.5	19.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699953 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3S-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°	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.7	19.5	19.3	19.1
85°	34.2	34.3	34.4	34.4	34.4	34.3	34.2	34.0	33.7	33.4	33.1
82.5°	52.9	53.2	53.3	53.4	53.3	53.2	52.9	52.5	52.0	51.4	50.7
80°	75.5	75.9	76.2	76.3	76.2	75.9	75.5	74.9	74.1	73.1	72.0
77.5°	143.0	144.7	145.7	146.0	145.7	144.7	143.0	140.6	137.6	133.9	129.6
75°	326.8	332.3	335.7	336.8	335.7	332.3	326.8	319.0	309.0	296.9	282.7
72.5°	619.8	630.1	636.3	638.4	636.3	630.1	619.8	605.3	586.8	564.3	537.8
70°	981.4	996.0	1004.8	1007.7	1004.8	996.0	981.4	960.9	934.8	903.0	865.6
67.5°	1397.0	1416.1	1427.6	1431.4	1427.6	1416.1	1397.0	1370.4	1336.2	1294.7	1246.0
65°	1873.6	1898.2	1913.1	1918.0	1913.1	1898.2	1873.6	1839.1	1795.0	1741.4	1678.5
62.5°	2375.6	2404.5	2421.8	2427.6	2421.8	2404.5	2375.6	2335.4	2283.9	2221.4	2147.9
60°	2940.5	2976.8	2998.6	3005.9	2998.6	2976.8	2940.5	2889.9	2825.2	2746.6	2654.4
57.5°	3591.4	3637.7	3665.5	3674.8	3665.5	3637.7	3591.4	3526.9	3444.4	3344.3	3226.9
55°	4250.4	4301.1	4331.6	4341.8	4331.6	4301.1	4250.4	4179.8	4089.5	3980.0	3851.8
52.5°	4886.0	4939.3	4971.4	4982.1	4971.4	4939.3	4886.0	4811.8	4717.0	4602.1	4467.8
50°	5598.0	5665.0	5705.3	5718.8	5705.3	5665.0	5598.0	5504.7	5385.7	5241.7	5073.3
47.5°	7731.3	7974.6	8121.2	8170.2	8121.2	7974.6	7731.3	7393.0	6961.7	6440.2	5831.4
45°	9764.4	9978.8	10108.0	10151.2	10108.0	9978.8	9764.4	9466.6	9087.4	8629.4	8078.0
42.5°	11019.5	11149.5	11228.1	11254.3	11228.1	11149.5	11019.5	10838.9	10609.2	10332.3	9898.1
40°	12252.9	12420.2	12521.2	12555.0	12521.2	12420.2	12252.9	12021.0	11726.5	11372.1	11005.4
37.5°	13866.8	14113.6	14262.8	14312.7	14262.8	14113.6	13866.8	13525.1	13092.2	12572.3	12122.3
35°	16129.8	16516.0	16749.8	16828.1	16749.8	16516.0	16129.8	15596.0	14921.2	14173.2	13521.2
32.5°	19447.3	20081.3	20465.7	20594.5	20465.7	20081.3	19447.3	18573.0	17470.8	16378.5	15367.3
30°	24341.5	25385.3	26019.4	26232.1	26019.4	25385.3	24341.5	22906.0	21102.4	19500.8	17858.9
27.5°	34500.3	37188.3	38825.1	39374.9	38825.1	37188.3	34500.3	30816.7	26221.7	23881.6	21213.8
25°	54836.5	60813.9	64465.4	65693.9	64465.4	60813.9	54836.5	46681.5	37955.2	31991.0	25803.3
22.5°	87019.5	97085.2	103260.4	105342.6	103260.4	97085.2	87019.5	73366.2	59583.1	46494.5	35577.7
20°	130835.1	146106.5	155529.8	158717.2	155529.8	146106.5	130835.1	110279.9	90300.0	68640.3	51619.4
17.5°	183806.7	204098.1	216721.9	221011.1	216721.9	204098.1	183806.7	157058.0	129009.3	99079.2	72780.3
15°	241294.3	266083.8	281691.9	287031.3	281691.9	266083.8	241294.3	209452.8	172838.3	135433.5	99079.2
12.5°	300295.0	332149.7	352479.4	359558.5	352479.4	332149.7	300295.0	261734.5	218345.7	172838.3	129009.3
10°	360225.0	399317.4	427834.2	438082.1	427834.2	399317.4	360225.0	313183.3	261734.5	209452.8	157058.0
7.5°	418189.9	472397.7	504725.9	514028.4	504725.9	472397.7	418189.9	360225.0	300295.0	241294.3	183806.7
5°	472397.7	524022.4	554642.4	566406.7	554642.4	524022.4	472397.7	399317.4	332149.7	266083.8	204098.1
2.5°	504725.9	554642.4	595624.1	614724.8	595624.1	554642.4	504725.9	427834.2	352479.4	281691.9	216721.9
0°	514028.4	566406.7	614724.8	638457.7	614724.8	566406.7	514028.4	438082.1	359558.5	287031.3	221011.1
-2.5°	504725.9	554642.4	595624.1	614724.8	595624.1	554642.4	504725.9	427834.2	352479.4	281691.9	216721.9
-5°	472397.7	524022.4	554642.4	566406.7	554642.4	524022.4	472397.7	399317.4	332149.7	266083.8	204098.1
-7.5°	418189.9	472397.7	504725.9	514028.4	504725.9	472397.7	418189.9	360225.0	300295.0	241294.3	183806.7
-10°	360225.0	399317.4	427834.2	438082.1	427834.2	399317.4	360225.0	313183.3	261734.5	209452.8	157058.0
-12.5°	300295.0	332149.7	352479.4	359558.5	352479.4	332149.7	300295.0	261734.5	218345.7	172838.3	129009.3
-15°	241294.3	266083.8	281691.9	287031.3	281691.9	266083.8	241294.3	209452.8	172838.3	135433.5	99079.2
-17.5°	183806.7	204098.1	216721.9	221011.1	216721.9	204098.1	183806.7	157058.0	129009.3	99079.2	72780.3
-20°	130835.1	146106.5	155529.8	158717.2	155529.8	146106.5	130835.1	110279.9	90300.0	68640.3	51619.4



REPORT NUMBER: P699953 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	87019.5	97085.2	103260.4	105342.6	103260.4	97085.2	87019.5	73366.2	59583.1	46494.5	35577.7
-25°	54836.5	60813.9	64465.4	65693.9	64465.4	60813.9	54836.5	46681.5	37955.2	31991.0	25803.3
-27.5°	34500.3	37188.3	38825.1	39374.9	38825.1	37188.3	34500.3	30816.7	26221.7	23881.6	21213.8
-30°	24341.5	25385.3	26019.4	26232.1	26019.4	25385.3	24341.5	22906.0	21102.4	19500.8	17858.9
-32.5°	19447.3	20081.3	20465.7	20594.5	20465.7	20081.3	19447.3	18573.0	17470.8	16378.5	15367.3
-35°	16129.8	16516.0	16749.8	16828.1	16749.8	16516.0	16129.8	15596.0	14921.2	14173.2	13521.2
-37.5°	13866.8	14113.6	14262.8	14312.7	14262.8	14113.6	13866.8	13525.1	13092.2	12572.3	12122.3
-40°	12252.9	12420.2	12521.2	12555.0	12521.2	12420.2	12252.9	12021.0	11726.5	11372.1	11005.4
-42.5°	11019.5	11149.5	11228.1	11254.3	11228.1	11149.5	11019.5	10838.9	10609.2	10332.3	9898.1
-45°	9764.4	9978.8	10108.0	10151.2	10108.0	9978.8	9764.4	9466.6	9087.4	8629.4	8078.0
-47.5°	7731.3	7974.6	8121.2	8170.2	8121.2	7974.6	7731.3	7393.0	6961.7	6440.2	5831.4
-50°	5598.0	5665.0	5705.3	5718.8	5705.3	5665.0	5598.0	5504.7	5385.7	5241.7	5073.3
-52.5°	4886.0	4939.3	4971.4	4982.1	4971.4	4939.3	4886.0	4811.8	4717.0	4602.1	4467.8
-55°	4250.4	4301.1	4331.6	4341.8	4331.6	4301.1	4250.4	4179.8	4089.5	3980.0	3851.8
-57.5°	3591.4	3637.7	3665.5	3674.8	3665.5	3637.7	3591.4	3526.9	3444.4	3344.3	3226.9
-60°	2940.5	2976.8	2998.6	3005.9	2998.6	2976.8	2940.5	2889.9	2825.2	2746.6	2654.4
-62.5°	2375.6	2404.5	2421.8	2427.6	2421.8	2404.5	2375.6	2335.4	2283.9	2221.4	2147.9
-65°	1873.6	1898.2	1913.1	1918.0	1913.1	1898.2	1873.6	1839.1	1795.0	1741.4	1678.5
-67.5°	1397.0	1416.1	1427.6	1431.4	1427.6	1416.1	1397.0	1370.4	1336.2	1294.7	1246.0
-70°	981.4	996.0	1004.8	1007.7	1004.8	996.0	981.4	960.9	934.8	903.0	865.6
-72.5°	619.8	630.1	636.3	638.4	636.3	630.1	619.8	605.3	586.8	564.3	537.8
-75°	326.8	332.3	335.7	336.8	335.7	332.3	326.8	319.0	309.0	296.9	282.7
-77.5°	143.0	144.7	145.7	146.0	145.7	144.7	143.0	140.6	137.6	133.9	129.6
-80°	75.5	75.9	76.2	76.3	76.2	75.9	75.5	74.9	74.1	73.1	72.0
-82.5°	52.9	53.2	53.3	53.4	53.3	53.2	52.9	52.5	52.0	51.4	50.7
-85°	34.2	34.3	34.4	34.4	34.4	34.3	34.2	34.0	33.7	33.4	33.1
-87.5°	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.7	19.5	19.3	19.1
-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°	18.8	18.5	18.1	17.7	17.3	16.9	16.4	15.9	15.3	14.7	14.1
85°	32.7	32.2	31.7	31.1	30.5	29.9	29.2	28.4	27.7	26.8	26.0
82.5°	49.9	49.0	48.0	46.9	45.7	44.4	43.0	41.6	40.0	38.4	36.6
80°	70.7	69.3	67.6	65.9	63.9	61.8	59.6	57.2	54.7	52.3	50.0
77.5°	124.7	119.1	112.9	106.1	98.7	90.7	82.2	75.3	72.1	68.8	65.3
75°	266.3	247.8	227.4	204.9	180.5	154.3	138.8	127.9	116.3	104.2	91.5
72.5°	507.4	473.1	435.1	393.5	348.3	313.2	280.3	245.4	208.4	169.6	139.8
70°	822.6	774.3	720.8	662.1	605.8	549.8	490.0	426.6	359.6	306.7	260.1
67.5°	1190.0	1127.2	1057.4	984.5	912.4	834.8	752.0	664.1	583.7	504.3	421.2
65°	1606.4	1525.3	1435.5	1349.4	1256.7	1157.1	1050.8	947.1	843.7	735.1	624.9
62.5°	2063.8	1969.4	1867.2	1758.0	1639.9	1513.0	1384.8	1260.1	1128.9	993.4	868.4
60°	2548.9	2430.5	2314.7	2188.6	2052.3	1906.7	1758.0	1600.9	1435.5	1284.2	1127.2
57.5°	3092.7	2950.9	2807.2	2650.4	2480.9	2314.7	2144.7	1965.1	1782.7	1594.3	1402.5
55°	3705.4	3541.0	3359.4	3161.6	2955.9	2758.5	2548.9	2339.6	2135.0	1921.4	1709.2
52.5°	4313.3	4134.6	3937.7	3723.4	3492.0	3244.6	2985.5	2746.6	2496.3	2258.1	2019.3
50°	4894.6	4708.4	4503.4	4278.1	4028.5	3762.4	3480.0	3182.8	2889.9	2610.0	2332.6
47.5°	5544.5	5312.4	5057.4	4807.1	4548.9	4271.2	3968.6	3650.9	3318.1	2976.8	2667.3
45°	7328.0	6492.9	5676.3	5378.4	5059.1	4754.2	4443.3	4108.1	3754.2	3386.3	3005.9
42.5°	9242.5	8514.1	7609.6	6544.3	5624.5	5261.7	4893.2	4546.0	4178.4	3788.9	3386.3
40°	10610.9	10173.6	9334.4	8410.9	7249.2	5960.4	5384.8	4963.3	4580.5	4178.4	3754.2
37.5°	11619.9	11093.4	10580.9	9933.8	8881.9	7678.2	6240.8	5426.1	4963.3	4546.0	4108.1
35°	12788.1	12129.8	11481.5	10858.0	10233.6	9120.0	7822.2	6240.8	5384.8	4893.2	4443.3
32.5°	14258.2	13389.3	12477.6	11736.0	10998.3	10301.9	9120.0	7678.2	5960.4	5261.7	4754.2
30°	16293.5	14956.6	13757.3	12688.7	11821.6	10998.3	10233.6	8881.9	7249.2	5624.5	5059.1
27.5°	19030.4	16879.2	15323.5	13881.3	12688.7	11736.0	10858.0	9933.8	8410.9	6544.3	5378.4
25°	22605.3	19627.5	17166.4	15323.5	13757.3	12477.6	11481.5	10580.9	9334.4	7609.6	5676.3
22.5°	27524.5	23075.7	19627.5	16879.2	14956.6	13389.3	12129.8	11093.4	10173.6	8514.1	6492.9
20°	36794.2	27524.5	22605.3	19030.4	16293.5	14258.2	12788.1	11619.9	10610.9	9242.5	7328.0
17.5°	51619.4	35577.7	25803.3	21213.8	17858.9	15367.3	13521.2	12122.3	11005.4	9898.1	8078.0
15°	68640.3	46494.5	31991.0	23881.6	19500.8	16378.5	14173.2	12572.3	11372.1	10332.3	8629.4
12.5°	90300.0	59583.1	37955.2	26221.7	21102.4	17470.8	14921.2	13092.2	11726.5	10609.2	9087.4
10°	110279.9	73366.2	46681.5	30816.7	22906.0	18573.0	15596.0	13525.1	12021.0	10838.9	9466.6
7.5°	130835.1	87019.5	54836.5	34500.3	24341.5	19447.3	16129.8	13866.8	12252.9	11019.5	9764.4
5°	146106.5	97085.2	60813.9	37188.3	25385.3	20081.3	16516.0	14113.6	12420.2	11149.5	9978.8
2.5°	155529.8	103260.4	64465.4	38825.1	26019.4	20465.7	16749.8	14262.8	12521.2	11228.1	10108.0
0°	158717.2	105342.6	65693.9	39374.9	26232.1	20594.5	16828.1	14312.7	12555.0	11254.3	10151.2
-2.5°	155529.8	103260.4	64465.4	38825.1	26019.4	20465.7	16749.8	14262.8	12521.2	11228.1	10108.0
-5°	146106.5	97085.2	60813.9	37188.3	25385.3	20081.3	16516.0	14113.6	12420.2	11149.5	9978.8
-7.5°	130835.1	87019.5	54836.5	34500.3	24341.5	19447.3	16129.8	13866.8	12252.9	11019.5	9764.4
-10°	110279.9	73366.2	46681.5	30816.7	22906.0	18573.0	15596.0	13525.1	12021.0	10838.9	9466.6
-12.5°	90300.0	59583.1	37955.2	26221.7	21102.4	17470.8	14921.2	13092.2	11726.5	10609.2	9087.4
-15°	68640.3	46494.5	31991.0	23881.6	19500.8	16378.5	14173.2	12572.3	11372.1	10332.3	8629.4
-17.5°	51619.4	35577.7	25803.3	21213.8	17858.9	15367.3	13521.2	12122.3	11005.4	9898.1	8078.0
-20°	36794.2	27524.5	22605.3	19030.4	16293.5	14258.2	12788.1	11619.9	10610.9	9242.5	7328.0



REPORT NUMBER: P699953 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3S-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	27524.5	23075.7	19627.5	16879.2	14956.6	13389.3	12129.8	11093.4	10173.6	8514.1	6492.9
-25°	22605.3	19627.5	17166.4	15323.5	13757.3	12477.6	11481.5	10580.9	9334.4	7609.6	5676.3
-27.5°	19030.4	16879.2	15323.5	13881.3	12688.7	11736.0	10858.0	9933.8	8410.9	6544.3	5378.4
-30°	16293.5	14956.6	13757.3	12688.7	11821.6	10998.3	10233.6	8881.9	7249.2	5624.5	5059.1
-32.5°	14258.2	13389.3	12477.6	11736.0	10998.3	10301.9	9120.0	7678.2	5960.4	5261.7	4754.2
-35°	12788.1	12129.8	11481.5	10858.0	10233.6	9120.0	7822.2	6240.8	5384.8	4893.2	4443.3
-37.5°	11619.9	11093.4	10580.9	9933.8	8881.9	7678.2	6240.8	5426.1	4963.3	4546.0	4108.1
-40°	10610.9	10173.6	9334.4	8410.9	7249.2	5960.4	5384.8	4963.3	4580.5	4178.4	3754.2
-42.5°	9242.5	8514.1	7609.6	6544.3	5624.5	5261.7	4893.2	4546.0	4178.4	3788.9	3386.3
-45°	7328.0	6492.9	5676.3	5378.4	5059.1	4754.2	4443.3	4108.1	3754.2	3386.3	3005.9
-47.5°	5544.5	5312.4	5057.4	4807.1	4548.9	4271.2	3968.6	3650.9	3318.1	2976.8	2667.3
-50°	4894.6	4708.4	4503.4	4278.1	4028.5	3762.4	3480.0	3182.8	2889.9	2610.0	2332.6
-52.5°	4313.3	4134.6	3937.7	3723.4	3492.0	3244.6	2985.5	2746.6	2496.3	2258.1	2019.3
-55°	3705.4	3541.0	3359.4	3161.6	2955.9	2758.5	2548.9	2339.6	2135.0	1921.4	1709.2
-57.5°	3092.7	2950.9	2807.2	2650.4	2480.9	2314.7	2144.7	1965.1	1782.7	1594.3	1402.5
-60°	2548.9	2430.5	2314.7	2188.6	2052.3	1906.7	1758.0	1600.9	1435.5	1284.2	1127.2
-62.5°	2063.8	1969.4	1867.2	1758.0	1639.9	1513.0	1384.8	1260.1	1128.9	993.4	868.4
-65°	1606.4	1525.3	1435.5	1349.4	1256.7	1157.1	1050.8	947.1	843.7	735.1	624.9
-67.5°	1190.0	1127.2	1057.4	984.5	912.4	834.8	752.0	664.1	583.7	504.3	421.2
-70°	822.6	774.3	720.8	662.1	605.8	549.8	490.0	426.6	359.6	306.7	260.1
-72.5°	507.4	473.1	435.1	393.5	348.3	313.2	280.3	245.4	208.4	169.6	139.8
-75°	266.3	247.8	227.4	204.9	180.5	154.3	138.8	127.9	116.3	104.2	91.5
-77.5°	124.7	119.1	112.9	106.1	98.7	90.7	82.2	75.3	72.1	68.8	65.3
-80°	70.7	69.3	67.6	65.9	63.9	61.8	59.6	57.2	54.7	52.3	50.0
-82.5°	49.9	49.0	48.0	46.9	45.7	44.4	43.0	41.6	40.0	38.4	36.6
-85°	32.7	32.2	31.7	31.1	30.5	29.9	29.2	28.4	27.7	26.8	26.0
-87.5°	18.8	18.5	18.1	17.7	17.3	16.9	16.4	15.9	15.3	14.7	14.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P699953 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3S-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°	13.5	12.9	12.2	11.5	10.7	10.0	9.2	8.5	7.7	6.8	6.0
85°	25.0	24.1	23.1	22.1	21.1	20.0	18.5	16.9	15.3	13.7	12.0
82.5°	34.8	33.3	31.9	30.3	28.8	27.2	25.5	23.8	22.1	20.3	18.0
80°	47.6	45.1	42.5	39.8	37.1	34.3	32.1	29.8	27.5	25.2	22.8
77.5°	61.7	58.0	54.1	50.6	47.2	43.6	40.0	36.3	33.0	30.1	27.1
75°	78.3	72.4	67.7	62.9	57.9	52.9	48.6	44.1	39.6	35.0	31.3
72.5°	124.3	108.2	91.6	75.7	69.9	63.9	57.8	51.9	46.6	41.3	35.8
70°	211.6	161.3	132.5	112.9	92.7	74.9	67.9	60.8	53.6	47.5	41.3
67.5°	335.5	278.8	220.2	159.7	128.3	105.0	81.3	70.0	61.8	53.6	46.6
65°	528.6	428.8	329.8	262.7	193.7	137.6	111.2	84.3	70.0	60.8	51.9
62.5°	738.4	610.2	496.7	380.0	288.3	210.8	140.7	111.2	81.3	67.9	57.8
60°	969.7	822.6	671.0	537.8	407.2	296.9	210.8	137.6	105.0	74.9	63.9
57.5°	1225.3	1042.3	873.6	704.8	551.5	407.2	288.3	193.7	128.3	92.7	69.9
55°	1489.6	1284.8	1081.7	890.6	704.8	537.8	380.0	262.7	159.7	112.9	75.7
52.5°	1778.8	1535.7	1304.6	1081.7	873.6	671.0	496.7	329.8	220.2	132.5	91.6
50°	2068.5	1802.1	1535.7	1284.8	1042.3	822.6	610.2	428.8	278.8	161.3	108.2
47.5°	2357.6	2068.5	1778.8	1489.6	1225.3	969.7	738.4	528.6	335.5	211.6	124.3
45°	2667.3	2332.6	2019.3	1709.2	1402.5	1127.2	868.4	624.9	421.2	260.1	139.8
42.5°	2976.8	2610.0	2258.1	1921.4	1594.3	1284.2	993.4	735.1	504.3	306.7	169.6
40°	3318.1	2889.9	2496.3	2135.0	1782.7	1435.5	1128.9	843.7	583.7	359.6	208.4
37.5°	3650.9	3182.8	2746.6	2339.6	1965.1	1600.9	1260.1	947.1	664.1	426.6	245.4
35°	3968.6	3480.0	2985.5	2548.9	2144.7	1758.0	1384.8	1050.8	752.0	490.0	280.3
32.5°	4271.2	3762.4	3244.6	2758.5	2314.7	1906.7	1513.0	1157.1	834.8	549.8	313.2
30°	4548.9	4028.5	3492.0	2955.9	2480.9	2052.3	1639.9	1256.7	912.4	605.8	348.3
27.5°	4807.1	4278.1	3723.4	3161.6	2650.4	2188.6	1758.0	1349.4	984.5	662.1	393.5
25°	5057.4	4503.4	3937.7	3359.4	2807.2	2314.7	1867.2	1435.5	1057.4	720.8	435.1
22.5°	5312.4	4708.4	4134.6	3541.0	2950.9	2430.5	1969.4	1525.3	1127.2	774.3	473.1
20°	5544.5	4894.6	4313.3	3705.4	3092.7	2548.9	2063.8	1606.4	1190.0	822.6	507.4
17.5°	5831.4	5073.3	4467.8	3851.8	3226.9	2654.4	2147.9	1678.5	1246.0	865.6	537.8
15°	6440.2	5241.7	4602.1	3980.0	3344.3	2746.6	2221.4	1741.4	1294.7	903.0	564.3
12.5°	6961.7	5385.7	4717.0	4089.5	3444.4	2825.2	2283.9	1795.0	1336.2	934.8	586.8
10°	7393.0	5504.7	4811.8	4179.8	3526.9	2889.9	2335.4	1839.1	1370.4	960.9	605.3
7.5°	7731.3	5598.0	4886.0	4250.4	3591.4	2940.5	2375.6	1873.6	1397.0	981.4	619.8
5°	7974.6	5665.0	4939.3	4301.1	3637.7	2976.8	2404.5	1898.2	1416.1	996.0	630.1
2.5°	8121.2	5705.3	4971.4	4331.6	3665.5	2998.6	2421.8	1913.1	1427.6	1004.8	636.3
0°	8170.2	5718.8	4982.1	4341.8	3674.8	3005.9	2427.6	1918.0	1431.4	1007.7	638.4
-2.5°	8121.2	5705.3	4971.4	4331.6	3665.5	2998.6	2421.8	1913.1	1427.6	1004.8	636.3
-5°	7974.6	5665.0	4939.3	4301.1	3637.7	2976.8	2404.5	1898.2	1416.1	996.0	630.1
-7.5°	7731.3	5598.0	4886.0	4250.4	3591.4	2940.5	2375.6	1873.6	1397.0	981.4	619.8
-10°	7393.0	5504.7	4811.8	4179.8	3526.9	2889.9	2335.4	1839.1	1370.4	960.9	605.3
-12.5°	6961.7	5385.7	4717.0	4089.5	3444.4	2825.2	2283.9	1795.0	1336.2	934.8	586.8
-15°	6440.2	5241.7	4602.1	3980.0	3344.3	2746.6	2221.4	1741.4	1294.7	903.0	564.3
-17.5°	5831.4	5073.3	4467.8	3851.8	3226.9	2654.4	2147.9	1678.5	1246.0	865.6	537.8
-20°	5544.5	4894.6	4313.3	3705.4	3092.7	2548.9	2063.8	1606.4	1190.0	822.6	507.4



REPORT NUMBER: P699953 (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°	5312.4	4708.4	4134.6	3541.0	2950.9	2430.5	1969.4	1525.3	1127.2	774.3	473.1
-25°	5057.4	4503.4	3937.7	3359.4	2807.2	2314.7	1867.2	1435.5	1057.4	720.8	435.1
-27.5°	4807.1	4278.1	3723.4	3161.6	2650.4	2188.6	1758.0	1349.4	984.5	662.1	393.5
-30°	4548.9	4028.5	3492.0	2955.9	2480.9	2052.3	1639.9	1256.7	912.4	605.8	348.3
-32.5°	4271.2	3762.4	3244.6	2758.5	2314.7	1906.7	1513.0	1157.1	834.8	549.8	313.2
-35°	3968.6	3480.0	2985.5	2548.9	2144.7	1758.0	1384.8	1050.8	752.0	490.0	280.3
-37.5°	3650.9	3182.8	2746.6	2339.6	1965.1	1600.9	1260.1	947.1	664.1	426.6	245.4
-40°	3318.1	2889.9	2496.3	2135.0	1782.7	1435.5	1128.9	843.7	583.7	359.6	208.4
-42.5°	2976.8	2610.0	2258.1	1921.4	1594.3	1284.2	993.4	735.1	504.3	306.7	169.6
-45°	2667.3	2332.6	2019.3	1709.2	1402.5	1127.2	868.4	624.9	421.2	260.1	139.8
-47.5°	2357.6	2068.5	1778.8	1489.6	1225.3	969.7	738.4	528.6	335.5	211.6	124.3
-50°	2068.5	1802.1	1535.7	1284.8	1042.3	822.6	610.2	428.8	278.8	161.3	108.2
-52.5°	1778.8	1535.7	1304.6	1081.7	873.6	671.0	496.7	329.8	220.2	132.5	91.6
-55°	1489.6	1284.8	1081.7	890.6	704.8	537.8	380.0	262.7	159.7	112.9	75.7
-57.5°	1225.3	1042.3	873.6	704.8	551.5	407.2	288.3	193.7	128.3	92.7	69.9
-60°	969.7	822.6	671.0	537.8	407.2	296.9	210.8	137.6	105.0	74.9	63.9
-62.5°	738.4	610.2	496.7	380.0	288.3	210.8	140.7	111.2	81.3	67.9	57.8
-65°	528.6	428.8	329.8	262.7	193.7	137.6	111.2	84.3	70.0	60.8	51.9
-67.5°	335.5	278.8	220.2	159.7	128.3	105.0	81.3	70.0	61.8	53.6	46.6
-70°	211.6	161.3	132.5	112.9	92.7	74.9	67.9	60.8	53.6	47.5	41.3
-72.5°	124.3	108.2	91.6	75.7	69.9	63.9	57.8	51.9	46.6	41.3	35.8
-75°	78.3	72.4	67.7	62.9	57.9	52.9	48.6	44.1	39.6	35.0	31.3
-77.5°	61.7	58.0	54.1	50.6	47.2	43.6	40.0	36.3	33.0	30.1	27.1
-80°	47.6	45.1	42.5	39.8	37.1	34.3	32.1	29.8	27.5	25.2	22.8
-82.5°	34.8	33.3	31.9	30.3	28.8	27.2	25.5	23.8	22.1	20.3	18.0
-85°	25.0	24.1	23.1	22.1	21.1	20.0	18.5	16.9	15.3	13.7	12.0
-87.5°	13.5	12.9	12.2	11.5	10.7	10.0	9.2	8.5	7.7	6.8	6.0
-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: P699953 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
85°	10.3	8.6	6.9	5.2	3.5	1.7	0.0
82.5°	15.5	13.0	10.4	7.8	5.2	2.6	0.0
80°	20.4	17.2	13.8	10.4	6.9	3.5	0.0
77.5°	24.1	21.1	17.2	13.0	8.6	4.3	0.0
75°	27.7	24.1	20.4	15.5	10.3	5.2	0.0
72.5°	31.3	27.1	22.8	18.0	12.0	6.0	0.0
70°	35.0	30.1	25.2	20.3	13.7	6.8	0.0
67.5°	39.6	33.0	27.5	22.1	15.3	7.7	0.0
65°	44.1	36.3	29.8	23.8	16.9	8.5	0.0
62.5°	48.6	40.0	32.1	25.5	18.5	9.2	0.0
60°	52.9	43.6	34.3	27.2	20.0	10.0	0.0
57.5°	57.9	47.2	37.1	28.8	21.1	10.7	0.0
55°	62.9	50.6	39.8	30.3	22.1	11.5	0.0
52.5°	67.7	54.1	42.5	31.9	23.1	12.2	0.0
50°	72.4	58.0	45.1	33.3	24.1	12.9	0.0
47.5°	78.3	61.7	47.6	34.8	25.0	13.5	0.0
45°	91.5	65.3	50.0	36.6	26.0	14.1	0.0
42.5°	104.2	68.8	52.3	38.4	26.8	14.7	0.0
40°	116.3	72.1	54.7	40.0	27.7	15.3	0.0
37.5°	127.9	75.3	57.2	41.6	28.4	15.9	0.0
35°	138.8	82.2	59.6	43.0	29.2	16.4	0.0
32.5°	154.3	90.7	61.8	44.4	29.9	16.9	0.0
30°	180.5	98.7	63.9	45.7	30.5	17.3	0.0
27.5°	204.9	106.1	65.9	46.9	31.1	17.7	0.0
25°	227.4	112.9	67.6	48.0	31.7	18.1	0.0
22.5°	247.8	119.1	69.3	49.0	32.2	18.5	0.0
20°	266.3	124.7	70.7	49.9	32.7	18.8	0.0
17.5°	282.7	129.6	72.0	50.7	33.1	19.1	0.0
15°	296.9	133.9	73.1	51.4	33.4	19.3	0.0
12.5°	309.0	137.6	74.1	52.0	33.7	19.5	0.0
10°	319.0	140.6	74.9	52.5	34.0	19.7	0.0
7.5°	326.8	143.0	75.5	52.9	34.2	19.8	0.0
5°	332.3	144.7	75.9	53.2	34.3	19.9	0.0
2.5°	335.7	145.7	76.2	53.3	34.4	20.0	0.0
0°	336.8	146.0	76.3	53.4	34.4	20.0	0.0
-2.5°	335.7	145.7	76.2	53.3	34.4	20.0	0.0
-5°	332.3	144.7	75.9	53.2	34.3	19.9	0.0
-7.5°	326.8	143.0	75.5	52.9	34.2	19.8	0.0
-10°	319.0	140.6	74.9	52.5	34.0	19.7	0.0
-12.5°	309.0	137.6	74.1	52.0	33.7	19.5	0.0
-15°	296.9	133.9	73.1	51.4	33.4	19.3	0.0
-17.5°	282.7	129.6	72.0	50.7	33.1	19.1	0.0
-20°	266.3	124.7	70.7	49.9	32.7	18.8	0.0



REPORT NUMBER: P699953 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	247.8	119.1	69.3	49.0	32.2	18.5	0.0
-25°	227.4	112.9	67.6	48.0	31.7	18.1	0.0
-27.5°	204.9	106.1	65.9	46.9	31.1	17.7	0.0
-30°	180.5	98.7	63.9	45.7	30.5	17.3	0.0
-32.5°	154.3	90.7	61.8	44.4	29.9	16.9	0.0
-35°	138.8	82.2	59.6	43.0	29.2	16.4	0.0
-37.5°	127.9	75.3	57.2	41.6	28.4	15.9	0.0
-40°	116.3	72.1	54.7	40.0	27.7	15.3	0.0
-42.5°	104.2	68.8	52.3	38.4	26.8	14.7	0.0
-45°	91.5	65.3	50.0	36.6	26.0	14.1	0.0
-47.5°	78.3	61.7	47.6	34.8	25.0	13.5	0.0
-50°	72.4	58.0	45.1	33.3	24.1	12.9	0.0
-52.5°	67.7	54.1	42.5	31.9	23.1	12.2	0.0
-55°	62.9	50.6	39.8	30.3	22.1	11.5	0.0
-57.5°	57.9	47.2	37.1	28.8	21.1	10.7	0.0
-60°	52.9	43.6	34.3	27.2	20.0	10.0	0.0
-62.5°	48.6	40.0	32.1	25.5	18.5	9.2	0.0
-65°	44.1	36.3	29.8	23.8	16.9	8.5	0.0
-67.5°	39.6	33.0	27.5	22.1	15.3	7.7	0.0
-70°	35.0	30.1	25.2	20.3	13.7	6.8	0.0
-72.5°	31.3	27.1	22.8	18.0	12.0	6.0	0.0
-75°	27.7	24.1	20.4	15.5	10.3	5.2	0.0
-77.5°	24.1	21.1	17.2	13.0	8.6	4.3	0.0
-80°	20.4	17.2	13.8	10.4	6.9	3.5	0.0
-82.5°	15.5	13.0	10.4	7.8	5.2	2.6	0.0
-85°	10.3	8.6	6.9	5.2	3.5	1.7	0.0
-87.5°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)