

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: P699912 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/10/2023

**Test Information**

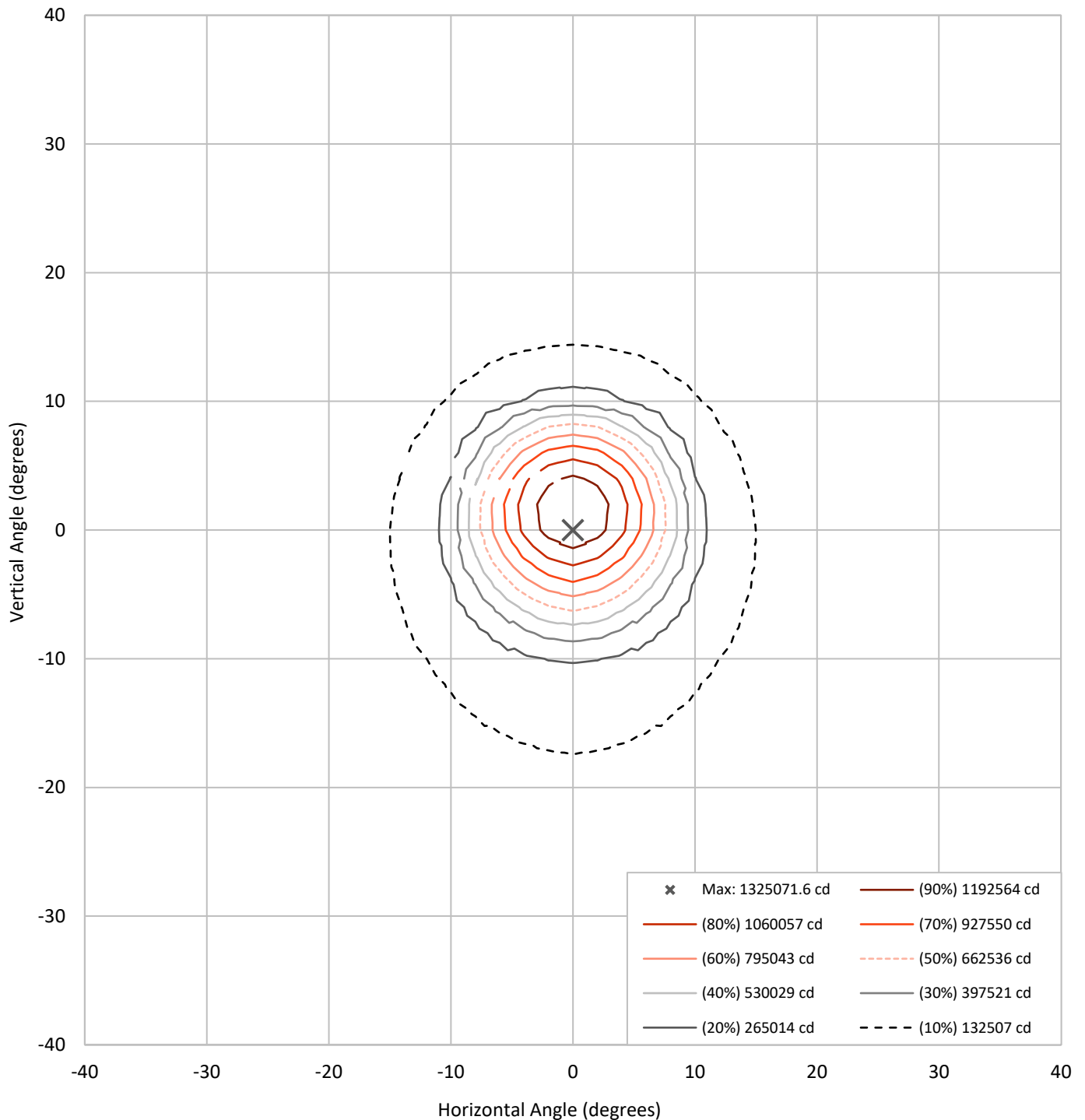
Test Method: LM-79-08  
Report Number: P699912 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-54)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200L-57-70-3L-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 5700K, 70 CRI LEDS AND 3L BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	173601.6 lumens	Max Intensity:	1325071.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	138.2 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	15.2°H x 14.5°V	Field Angle (10%):	29.6°H x 31.5°V
Beam Lumens:	48402.5 lumens	Field Lumens:	96595.1 lumens
Beam Efficiency:	27.9%	Field Efficiency:	55.6%
Input Watts (W):	1255.9		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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### Iso-Candela Plot



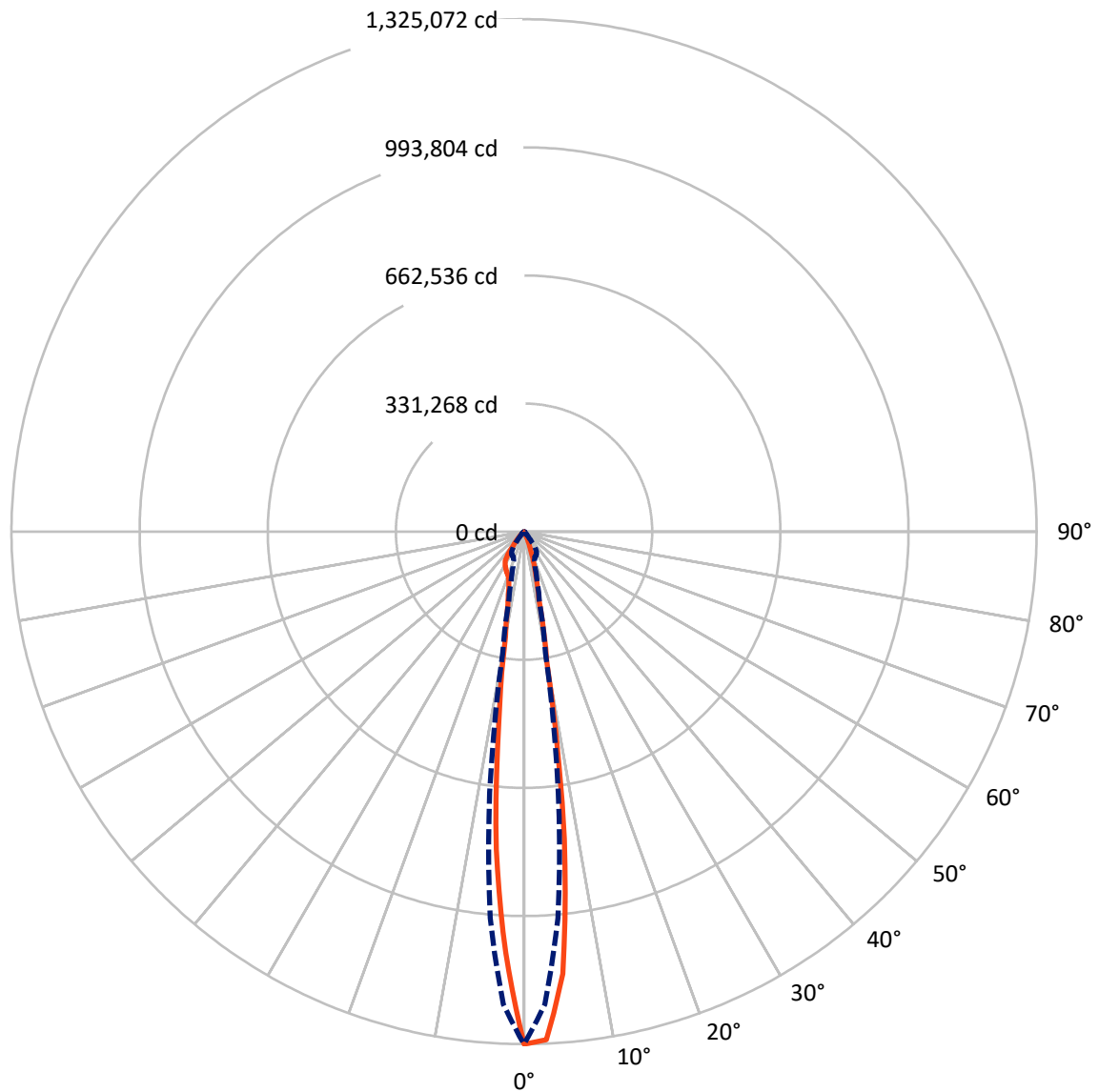
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### Lumen Table

90	0.3	1.4		2.4		3.4		3.8		3.4		2.4		1.4		0.3
80	0.3	1.4		2.4		3.4		3.8		3.4		2.4		1.4		0.3
70	0.6	0.5	0.7	1.2	1.9	2.5	3.2	3.8	3.8	3.2	2.5	1.9	1.2	0.7	0.5	0.6
60		0.6	1.1	2.2	3.9	6.7	13.0	27.2	27.2	13.0	6.7	3.9	2.2	1.1	0.6	
50	0.8	0.8	1.9	4.7	10.0	17.1	24.9	36.2	36.2	24.9	17.1	10.0	4.7	1.9	0.8	0.8
40		1.0	3.6	9.8	18.8	30.3	47.8	67.1	67.1	47.8	30.3	18.8	9.8	3.6	1.0	
30	0.9	1.4	6.2	18.2	68.0	245.7	419.4	544.2	544.2	419.4	245.7	68.0	18.2	6.2	1.4	0.9
20		1.9	10.1	46.2	406.7	1092.3	1812.7	3543.4	3543.4	1812.7	1092.3	406.7	46.2	10.1	1.9	
10	1.0	2.2	15.7	114.5	914.6	1750.9	3709.7	21511.0	21511.0	3709.7	1750.9	914.6	114.5	15.7	2.2	1.0
0		2.6	20.8	172.7	1207.7	2112.8	3953.5	17278.9	17278.9	3953.5	2112.8	1207.7	172.7	20.8	2.6	
-10	0.9	2.5	18.3	151.9	1060.1	2398.3	3110.3	4550.7	4550.7	3110.3	2398.3	1060.1	151.9	18.3	2.5	0.9
-20		1.9	11.3	77.6	539.1	1943.3	2892.9	3233.5	3233.5	2892.9	1943.3	539.1	77.6	11.3	1.9	
-30	0.8	1.2	6.2	24.9	161.1	685.7	1508.8	2050.7	2050.7	1508.8	685.7	161.1	24.9	6.2	1.2	0.8
-40		0.8	3.1	8.4	29.3	125.6	298.8	436.7	436.7	298.8	125.6	29.3	8.4	3.1	0.8	
-50	0.6	0.6	1.4	3.6	6.9	13.2	28.8	42.7	42.7	28.8	13.2	6.9	3.6	1.4	0.6	0.6
-60		0.4	0.8	1.5	2.5	3.8	5.2	5.8	5.8	5.2	3.8	2.5	1.5	0.8	0.4	
-70	0.3	1.3		2.3		3.3		3.6		3.3		2.3		1.3		0.3
-80		1.3		2.3		3.3		3.6		3.3		2.3		1.3		
-90	0.3	1.3		2.3		3.3		3.6		3.3		2.3		1.3		0.3

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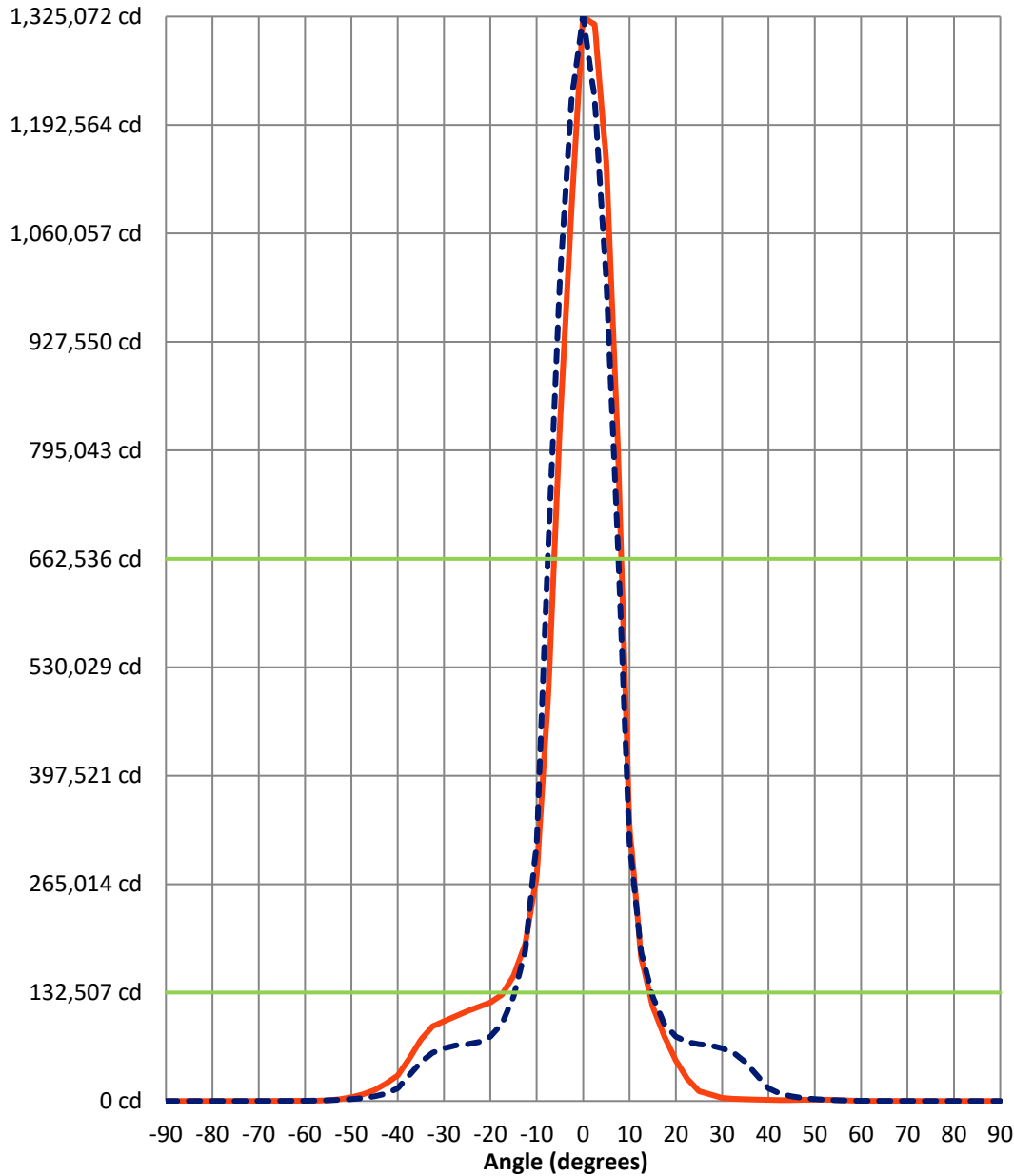
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 15.2°  
 V Angle: 14.5°  
 Lumens: 48402.5  
 Efficiency: 27.9%

**Field:**  
 H Angle: 29.6°  
 V Angle: 31.5°  
 Lumens: 96595.1  
 Efficiency: 55.6%

**Spill:**  
 Lumens: 77006.4  
 Efficiency: 44.4%

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



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.9	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	20.2	21.5	22.6
80°	0.0	3.5	6.9	10.4	13.8	17.2	20.3	22.0	23.6	25.2	26.8
77.5°	0.0	4.3	8.6	13.0	17.2	20.7	22.8	24.9	27.0	29.0	30.0
75°	0.0	5.2	10.3	15.5	20.3	22.8	25.4	27.9	30.0	30.0	30.0
72.5°	0.0	6.0	12.0	18.0	22.0	24.9	27.9	30.0	30.0	30.0	30.0
70°	0.0	6.8	13.7	20.2	23.6	27.0	30.0	30.0	30.0	30.1	33.2
67.5°	0.0	7.7	15.3	21.5	25.2	29.0	30.0	30.0	30.1	33.7	37.2
65°	0.0	8.5	16.9	22.6	26.8	30.0	30.0	30.0	33.2	37.2	40.0
62.5°	0.0	9.2	18.5	23.8	28.4	30.0	30.0	31.9	36.3	40.0	40.0
60°	0.0	10.0	20.0	25.0	29.9	30.0	30.0	34.6	39.4	40.0	40.0
57.5°	0.0	10.7	20.7	26.1	30.0	30.0	32.0	37.2	40.0	40.0	42.5
55°	0.0	11.5	21.5	27.2	30.0	30.0	34.1	39.7	40.0	40.7	46.1
52.5°	0.0	12.2	22.2	28.2	30.0	30.3	36.3	40.0	40.0	43.9	49.6
50°	0.0	12.9	22.8	29.3	30.0	32.0	38.3	40.0	40.8	47.0	51.6
47.5°	0.0	13.5	23.5	30.0	30.0	33.6	40.0	40.0	43.4	49.9	53.8
45°	0.0	14.1	24.1	30.0	30.0	35.2	40.0	40.0	46.0	52.4	56.4
42.5°	0.0	14.7	24.7	30.0	30.0	36.7	40.0	41.2	48.4	55.2	60.8
40°	0.0	15.3	25.3	30.0	30.6	38.2	40.0	43.3	50.8	58.2	64.8
37.5°	0.0	15.9	25.9	30.0	31.7	39.5	40.0	45.2	53.0	60.7	68.2
35°	0.0	16.4	26.4	30.0	32.7	40.0	40.0	47.0	55.1	63.1	72.0
32.5°	0.0	16.9	26.9	30.0	33.7	40.0	40.4	48.8	57.1	65.3	77.4
30°	0.0	17.3	27.3	30.0	34.6	40.0	41.8	50.4	58.9	67.4	82.9
27.5°	0.0	17.7	27.7	30.0	35.4	40.0	43.1	51.9	60.6	69.4	88.4
25°	0.0	18.1	28.1	30.0	36.2	40.0	44.3	53.3	62.2	72.9	94.3
22.5°	0.0	18.5	28.5	30.0	36.9	40.0	45.3	54.5	63.7	77.3	104.5
20°	0.0	18.8	28.8	30.0	37.6	40.0	46.3	55.7	65.0	81.6	113.9
17.5°	0.0	19.1	29.1	30.0	38.1	40.0	47.2	56.7	66.2	85.7	122.4
15°	0.0	19.3	29.3	30.0	38.6	40.0	47.9	57.5	67.2	89.6	130.0
12.5°	0.0	19.5	29.5	30.0	39.0	40.0	48.5	58.3	68.8	93.2	136.6
10°	0.0	19.7	29.7	30.0	39.4	40.0	49.1	58.9	71.2	95.9	142.5
7.5°	0.0	19.8	29.8	30.0	39.7	40.0	49.5	59.4	73.5	97.9	148.2
5°	0.0	19.9	29.9	30.0	39.8	40.0	49.8	59.7	75.8	99.1	153.1
2.5°	0.0	20.0	30.0	30.0	40.0	40.0	49.9	59.9	78.0	99.8	157.1
0°	0.0	20.0	30.0	30.0	40.0	40.0	50.0	60.0	80.0	100.0	160.0
-2.5°	0.0	20.0	30.0	30.0	40.0	40.0	49.9	59.9	79.8	101.9	166.3
-5°	0.0	19.9	29.9	30.0	39.8	40.0	49.8	59.7	79.4	103.3	171.1
-7.5°	0.0	19.8	29.8	30.0	39.7	40.0	49.5	59.4	78.6	104.1	174.1
-10°	0.0	19.7	29.7	30.0	39.4	40.0	49.1	58.9	77.5	104.2	175.0
-12.5°	0.0	19.5	29.5	30.0	39.0	40.0	48.5	58.3	76.1	103.3	170.4
-15°	0.0	19.3	29.3	30.0	38.6	40.0	47.9	57.5	74.3	100.3	162.2
-17.5°	0.0	19.1	29.1	30.0	38.1	40.0	47.2	56.7	72.3	96.9	152.1
-20°	0.0	18.8	28.8	30.0	37.6	40.0	46.3	55.7	70.0	92.9	140.2



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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	28.5	30.0	36.9	40.0	45.3	54.5	67.4	88.5	126.4
-25°	0.0	18.1	28.1	30.0	36.2	39.8	44.3	53.3	64.5	83.5	110.7
-27.5°	0.0	17.7	27.7	30.0	35.4	39.5	43.1	51.9	61.3	78.7	104.2
-30°	0.0	17.3	27.3	30.0	34.6	39.1	41.8	50.4	58.9	74.8	97.6
-32.5°	0.0	16.9	26.9	30.0	33.5	38.6	40.4	48.8	57.1	70.6	90.6
-35°	0.0	16.4	26.4	30.0	32.5	37.9	39.6	47.0	55.1	66.2	83.1
-37.5°	0.0	15.9	25.9	30.0	31.5	37.0	38.9	45.2	53.0	61.4	76.7
-40°	0.0	15.3	25.3	30.0	30.5	35.6	38.0	43.3	50.8	58.2	71.1
-42.5°	0.0	14.7	24.7	30.0	30.0	34.4	36.8	41.2	48.4	55.6	65.2
-45°	0.0	14.1	24.1	30.0	30.0	33.2	35.5	39.3	46.0	52.8	59.6
-47.5°	0.0	13.5	23.5	30.0	30.0	32.1	34.0	37.5	43.4	49.9	56.4
-50°	0.0	12.9	22.8	29.3	30.0	31.1	32.8	35.3	40.8	47.0	53.1
-52.5°	0.0	12.2	22.2	28.2	30.0	30.1	31.9	32.9	38.1	43.9	49.6
-55°	0.0	11.5	21.5	27.2	30.0	30.0	31.1	30.5	35.3	40.7	46.1
-57.5°	0.0	10.7	20.7	26.1	30.0	30.0	30.4	30.1	32.4	37.5	42.5
-60°	0.0	10.0	20.0	25.0	29.9	30.0	30.0	30.0	30.0	34.1	38.8
-62.5°	0.0	9.2	18.5	23.8	28.4	30.0	30.0	30.0	30.0	30.7	35.0
-65°	0.0	8.5	16.9	22.6	26.8	30.0	30.0	29.9	30.0	30.0	31.2
-67.5°	0.0	7.7	15.3	21.5	25.2	29.0	30.0	29.6	30.0	30.0	30.0
-70°	0.0	6.8	13.7	20.2	23.6	27.0	30.0	29.0	28.8	30.0	30.0
-72.5°	0.0	6.0	12.0	18.0	22.0	24.9	27.9	28.4	27.4	27.7	29.3
-75°	0.0	5.2	10.3	15.5	20.3	22.8	25.4	26.3	25.8	25.1	25.5
-77.5°	0.0	4.3	8.6	13.0	17.2	20.7	22.8	23.9	23.8	22.7	21.5
-80°	0.0	3.5	6.9	10.4	13.8	17.2	20.3	21.5	21.9	21.5	20.2
-82.5°	0.0	2.6	5.2	7.8	10.4	13.0	15.5	18.0	20.1	20.4	20.0
-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	20.2	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
82.5°	22.9	22.6	21.7	20.2	20.0	20.0	20.2	21.2	21.6	21.5	21.0
80°	26.6	25.3	23.9	23.2	24.3	25.6	26.9	28.2	27.5	25.7	24.1
77.5°	28.6	27.7	27.7	28.6	30.0	30.0	30.0	30.0	29.4	29.2	29.7
75°	29.6	29.9	30.7	30.4	30.0	30.0	30.3	32.2	33.4	33.4	32.6
72.5°	31.7	32.8	32.7	31.2	32.2	34.6	36.9	39.1	39.1	38.7	40.3
70°	35.7	36.1	35.5	36.0	38.1	40.0	40.0	40.0	40.5	44.5	50.0
67.5°	39.4	38.2	38.6	40.2	40.0	40.0	40.0	45.0	51.2	56.9	60.7
65°	39.9	39.7	41.2	41.6	40.2	43.7	49.4	56.4	62.4	65.6	68.4
62.5°	40.0	42.7	44.1	44.1	45.7	50.6	58.4	64.9	69.6	75.7	81.9
60°	43.4	46.7	47.0	47.9	51.8	60.5	68.3	74.5	82.0	90.2	97.0
57.5°	47.5	49.3	49.1	53.6	62.7	70.8	76.5	84.1	95.1	104.4	112.5
55°	50.3	49.9	53.6	63.7	71.7	76.5	85.3	99.0	110.2	123.1	133.3
52.5°	51.4	52.1	62.7	71.7	77.0	86.7	101.7	117.3	132.8	146.7	161.1
50°	53.0	60.5	70.8	76.5	87.4	104.6	121.8	140.5	160.9	178.8	201.3
47.5°	58.3	68.1	75.1	84.5	105.3	126.0	146.3	172.3	195.9	226.7	259.5
45°	64.3	73.6	80.0	102.1	125.8	150.4	179.8	209.2	243.4	282.3	334.6
42.5°	69.4	78.9	95.7	120.0	149.4	181.5	216.5	253.8	294.5	350.7	418.3
40°	74.7	85.0	113.6	143.2	175.7	216.6	260.4	303.5	355.4	429.7	510.9
37.5°	80.4	101.5	132.6	166.8	208.5	256.5	306.3	365.7	434.4	514.9	602.8
35°	86.4	118.0	154.3	195.3	243.7	300.7	363.6	435.6	525.9	608.1	689.8
32.5°	97.7	134.4	175.9	228.2	286.0	349.2	421.2	523.7	620.2	706.4	765.9
30°	111.8	153.3	199.8	261.5	328.4	406.5	499.4	612.5	713.8	797.5	860.9
27.5°	125.0	172.0	229.4	298.0	372.6	466.3	591.7	701.0	804.1	897.6	976.8
25°	137.4	190.0	258.8	334.6	426.6	544.6	689.7	821.7	905.5	1022.8	1239.1
22.5°	150.5	208.1	285.3	370.0	481.5	629.9	805.0	975.6	1115.5	1211.5	1621.3
20°	164.9	230.4	312.9	409.8	538.5	715.5	933.2	1163.0	1403.5	1822.0	2803.3
17.5°	178.7	250.7	342.4	462.1	624.5	831.1	1076.7	1378.7	1748.8	2594.6	4821.7
15°	191.8	269.2	371.8	515.9	721.1	997.3	1333.2	1708.6	2308.1	3777.6	7266.2
12.5°	204.0	285.5	400.4	570.0	822.4	1179.7	1645.6	2265.2	3296.0	5796.4	12041.7
10°	215.1	299.8	427.8	623.1	925.4	1371.8	1985.9	2902.9	4463.9	8029.2	16838.6
7.5°	222.1	309.8	453.9	673.6	1026.7	1566.8	2340.4	3590.8	5665.5	10140.8	21447.4
5°	226.6	315.5	482.3	747.4	1167.2	1794.0	2715.2	4295.1	6855.6	12082.6	25699.3
2.5°	229.2	318.9	508.2	822.2	1329.5	2067.2	3163.8	5058.1	7989.7	13921.4	29113.9
0°	230.0	320.0	530.0	890.0	1480.0	2320.0	3580.0	5760.0	9010.0	15550.0	31490.0
-2.5°	244.7	356.1	574.7	940.4	1557.9	2479.2	3881.7	6306.7	10134.8	17379.7	33293.7
-5°	257.3	388.3	613.0	979.4	1613.0	2598.3	4115.1	6724.1	10960.0	18549.7	33817.0
-7.5°	267.1	415.1	644.0	999.9	1619.8	2616.8	4173.1	6812.4	11185.1	18762.8	33008.6
-10°	272.6	420.4	629.0	964.0	1563.1	2549.7	4114.6	6726.8	11078.1	18407.3	31300.9
-12.5°	267.3	407.7	601.9	915.4	1478.6	2426.7	3949.8	6449.4	10596.5	17433.8	28562.4
-15°	258.6	391.9	570.6	853.7	1364.9	2243.4	3668.7	5964.3	9609.3	15367.0	24107.0
-17.5°	246.0	373.2	535.8	778.6	1221.1	1996.4	3235.5	5150.1	8347.6	13483.9	21197.4
-20°	229.5	351.8	497.9	690.0	1061.7	1718.0	2779.5	4480.8	7233.3	11556.7	17923.5



REPORT NUMBER: P699912 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	208.9	328.0	462.5	632.0	926.4	1450.0	2318.0	3701.2	5893.4	9279.5	14745.9
-25°	188.3	303.7	431.5	567.6	784.9	1165.7	1816.9	2868.9	4696.3	7632.5	12025.5
-27.5°	169.4	274.1	388.1	503.3	646.3	905.8	1434.0	2290.3	3666.5	5801.6	9118.6
-30°	148.4	236.0	344.2	443.2	560.4	752.7	1095.4	1680.1	2651.3	4374.6	6937.1
-32.5°	125.1	197.9	299.9	393.6	490.2	607.3	803.9	1254.9	1958.1	3003.4	4866.1
-35°	106.7	170.4	255.5	344.4	423.5	513.2	656.9	894.4	1320.3	2097.1	3357.3
-37.5°	97.9	141.3	211.2	295.7	370.6	444.0	514.2	672.7	940.9	1336.7	2270.2
-40°	88.6	110.8	175.0	247.8	321.2	383.9	445.0	514.5	656.2	964.2	1398.6
-42.5°	79.2	99.6	140.1	200.1	270.2	334.4	382.0	428.7	496.1	646.8	945.9
-45°	72.5	88.5	108.0	160.4	215.6	282.8	334.5	368.9	406.0	458.8	605.1
-47.5°	65.4	77.9	95.6	122.2	169.1	221.0	284.6	325.9	351.8	378.0	395.7
-50°	59.1	70.0	83.5	102.8	131.2	168.6	215.4	275.2	312.6	330.8	346.1
-52.5°	55.3	61.8	73.9	89.3	107.4	132.4	162.1	200.4	254.2	296.9	310.2
-55°	51.4	56.7	64.1	77.0	92.4	109.1	127.0	151.8	174.0	221.8	266.2
-57.5°	47.5	52.3	57.1	64.6	77.8	92.5	105.4	118.0	137.5	156.1	180.6
-60°	43.4	47.9	52.3	56.7	62.5	75.5	87.3	98.5	109.6	120.4	137.4
-62.5°	39.2	43.4	47.5	51.4	55.3	60.6	71.1	81.2	89.2	98.6	107.9
-65°	35.0	38.8	42.5	46.1	49.6	53.7	59.4	66.4	75.0	81.1	86.7
-67.5°	30.7	34.1	37.5	40.7	43.7	46.1	49.9	55.0	61.1	66.4	71.4
-70°	30.0	30.0	32.4	35.3	37.4	37.8	39.7	42.7	47.0	51.5	56.0
-72.5°	30.0	30.0	30.0	30.0	31.9	32.9	32.7	31.2	33.5	39.0	43.4
-75°	27.5	29.7	30.0	30.0	29.4	29.3	30.1	30.2	30.6	32.3	34.8
-77.5°	22.9	24.9	26.7	28.5	28.2	26.5	25.7	25.5	26.7	28.2	29.5
-80°	20.0	20.0	21.4	22.9	23.4	23.1	22.0	20.4	20.0	20.6	21.7
-82.5°	20.0	20.0	20.0	20.0	20.0	20.0	20.1	20.0	20.0	20.0	20.0
-85°	18.5	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.7	17.7	16.9
-87.5°	9.2	10.0	10.7	11.5	12.2	12.9	13.5	14.1	12.9	11.5	9.9
-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: P699912 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-3L-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	14.8	13.0	11.1	9.1	9.2	9.4	9.5	9.7	7.3	4.9
85°	20.0	19.2	18.7	18.3	18.1	16.4	14.5	12.3	10.1	9.9	9.8
82.5°	20.1	20.0	20.0	20.0	20.0	19.5	19.1	19.0	19.0	19.3	19.5
80°	23.0	23.7	24.6	25.4	26.2	26.9	27.6	28.1	28.6	29.0	29.4
77.5°	30.1	30.4	31.4	33.0	35.0	36.1	36.9	37.7	38.3	38.8	39.2
75°	30.8	32.4	37.0	40.8	43.8	45.3	46.3	47.2	47.9	48.5	49.1
72.5°	43.6	47.7	50.4	51.9	53.3	54.5	55.7	56.7	57.5	58.3	58.9
70°	54.2	57.1	58.9	60.6	62.2	64.1	66.9	70.1	73.7	76.1	77.5
67.5°	63.1	65.3	67.4	69.4	72.3	76.2	80.6	83.9	86.4	88.9	92.2
65°	72.0	77.1	81.8	86.1	90.2	93.9	97.2	100.2	102.7	105.3	107.4
62.5°	87.8	93.4	98.6	103.4	107.9	113.0	118.6	123.5	127.9	132.2	137.7
60°	103.4	109.5	115.6	122.7	130.8	139.6	149.3	159.6	170.7	181.9	191.5
57.5°	121.0	127.2	134.3	148.7	162.3	175.0	196.1	226.2	258.9	295.4	359.5
55°	143.9	155.8	166.7	191.8	220.5	248.7	284.2	345.3	413.8	487.3	645.7
52.5°	175.0	202.3	229.2	262.5	310.0	357.8	409.9	500.6	596.8	696.0	896.4
50°	234.1	269.9	314.6	361.6	419.3	478.4	537.1	636.7	736.1	832.9	1014.5
47.5°	307.6	357.9	413.0	464.6	528.9	587.2	638.3	717.3	802.4	875.4	992.7
45°	392.1	458.3	517.8	571.3	629.1	678.9	718.0	762.8	827.0	871.0	921.6
42.5°	491.6	557.7	618.9	669.7	715.5	760.2	797.2	828.5	876.4	921.1	960.4
40°	586.2	650.6	705.6	756.2	799.7	843.2	904.4	957.0	1014.5	1092.5	1169.4
37.5°	676.3	732.9	784.4	834.6	901.0	976.0	1049.0	1134.7	1232.2	1372.6	1513.5
35°	756.3	810.0	859.8	931.2	1019.9	1108.6	1218.7	1379.9	1532.7	1706.8	1882.1
32.5°	827.9	890.5	961.4	1052.2	1166.2	1379.7	1477.1	1703.0	1839.2	2058.0	2306.0
30°	901.8	1006.6	1236.5	1372.0	1665.7	2068.8	2114.3	2346.3	2634.1	2822.7	3361.6
27.5°	1102.4	1386.2	1916.7	2883.1	3081.9	3662.5	4336.2	4046.8	5325.0	5140.9	6954.9
25°	1640.9	2276.7	4339.0	6204.5	7063.4	7804.6	9465.8	9974.3	12277.5	13733.0	14117.2
22.5°	2877.2	5642.1	8627.7	11261.0	13691.7	15677.0	17816.0	20971.5	22387.0	23102.6	23725.0
20°	5181.1	10237.3	14790.9	18565.3	22039.8	25366.6	29289.8	31631.1	33116.6	36184.2	39351.3
17.5°	10054.4	16258.0	21837.3	26569.6	31146.8	36316.5	39603.0	42265.7	46291.9	51783.5	58037.7
15°	15717.9	23044.4	29247.4	34951.2	40777.2	45793.3	48988.3	53115.2	59611.3	68113.5	78804.5
12.5°	21703.0	29819.5	36515.3	42839.8	50011.4	53420.8	57046.1	63075.5	72119.7	84404.4	106214.4
10°	27609.5	36193.8	43348.8	50094.3	55920.0	59389.1	63513.2	70666.9	84769.0	107503.6	139524.8
7.5°	33420.9	42541.3	49692.9	56203.3	60509.4	63581.6	68796.0	79022.0	98614.9	130066.6	179581.4
5°	38996.5	48543.7	55322.8	60921.4	63918.0	66853.7	72821.4	85996.6	112951.9	155883.5	240721.2
2.5°	43840.2	54022.8	60224.0	64728.4	66723.4	69527.1	76176.1	91112.5	122782.2	176350.9	309974.8
0°	47570.1	58820.1	64420.1	67960.1	69380.1	72080.1	78820.1	94470.1	127880.2	183280.2	317520.4
-2.5°	50282.6	62650.1	68135.3	71196.1	72471.4	74761.7	81094.7	95439.3	126733.7	179064.5	295557.2
-5°	51471.2	65005.1	71346.8	74557.8	76065.3	78075.7	83403.5	95924.8	121725.3	162036.5	235983.3
-7.5°	51049.5	66102.4	74126.0	77811.1	79674.9	81665.4	85954.8	95328.3	113712.2	142999.7	188712.6
-10°	49097.7	66025.8	76322.9	80804.9	83484.9	85536.3	88432.1	94004.8	105823.1	127058.5	153802.4
-12.5°	45551.8	64326.5	77935.2	83368.0	86834.1	89307.2	92026.9	96158.4	102768.4	112787.2	132227.4
-15°	40845.4	60257.5	76003.6	84437.7	89025.7	92702.2	95680.4	98327.1	102675.3	108914.8	117652.5
-17.5°	35137.0	53701.5	71499.1	84535.8	90315.4	94708.1	97967.5	101106.5	103845.3	107952.6	112012.4
-20°	27769.5	45555.2	64620.9	79731.0	89306.9	94728.1	99005.0	102075.6	104891.2	107502.8	110217.0



REPORT NUMBER: P699912 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-3L-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	22776.0	36618.5	54303.6	72664.4	84552.8	92375.4	97672.4	100982.8	104100.5	106010.0	108106.2
-25°	18297.1	27153.3	43040.7	59805.8	75567.4	86492.4	93541.2	98030.0	100820.7	103038.1	104619.5
-27.5°	14306.5	21571.2	31323.3	46617.5	61810.7	75191.4	84701.3	92961.7	95858.3	98602.4	100013.6
-30°	10440.1	16139.0	23897.4	33340.8	46417.0	58532.5	70156.5	79407.3	86649.9	91979.2	93993.3
-32.5°	7694.2	11352.6	17203.2	24406.1	31339.5	41850.8	51932.8	61428.8	70164.5	77327.5	82427.0
-35°	5248.2	7973.5	11242.8	16728.4	22148.2	28065.2	34487.4	42677.2	49551.9	57420.6	64170.2
-37.5°	3548.0	5309.6	7801.2	10772.3	15058.0	19085.4	23466.7	27818.5	31847.1	38204.1	43805.4
-40°	2315.6	3424.2	5169.7	7207.7	9951.5	12536.1	15788.6	18566.3	21487.1	24933.4	27882.4
-42.5°	1376.3	2190.0	3185.0	4660.8	6314.2	8117.3	10240.5	12233.7	14216.7	16287.1	18132.9
-45°	838.0	1282.8	1863.3	2789.3	3707.1	4987.2	6248.0	7405.6	8903.1	10226.2	11302.9
-47.5°	535.7	698.9	1060.9	1513.2	2052.0	2831.1	3591.3	4361.7	5306.4	6149.9	6822.0
-50°	372.9	440.7	588.9	739.9	1064.9	1443.7	1809.2	2282.2	2852.4	3370.9	3780.0
-52.5°	321.5	345.6	375.2	431.0	563.9	695.5	824.8	1092.8	1365.6	1610.3	1802.5
-55°	289.4	298.6	306.9	332.1	363.2	395.1	440.6	542.7	641.2	733.9	801.0
-57.5°	218.7	251.1	273.1	283.4	294.2	305.4	327.4	353.9	376.7	395.4	406.5
-60°	153.6	168.8	197.0	222.9	244.1	260.8	274.9	289.6	303.2	313.1	313.0
-62.5°	116.7	128.4	143.4	158.2	172.1	188.0	206.4	224.0	240.7	253.0	256.9
-65°	93.1	100.6	109.1	118.3	128.2	139.7	149.1	158.3	167.3	173.9	176.9
-67.5°	76.2	80.6	84.8	88.7	94.5	101.3	107.2	112.5	117.1	121.0	124.2
-70°	60.2	64.1	67.8	71.3	74.5	77.4	80.0	82.3	84.3	86.1	87.5
-72.5°	46.7	48.8	50.8	53.8	56.5	59.0	61.3	63.3	65.1	66.6	67.8
-75°	38.1	40.4	41.8	43.1	44.3	45.3	46.3	47.2	47.9	48.5	49.1
-77.5°	30.8	30.6	30.2	30.3	30.8	32.3	33.9	35.3	36.5	37.6	38.5
-80°	22.7	22.9	22.5	21.6	20.2	19.3	18.9	18.6	18.7	19.0	19.4
-82.5°	20.0	18.9	18.1	17.5	17.2	15.9	14.2	12.3	10.1	9.8	9.8
-85°	16.4	15.2	13.7	12.0	10.1	10.0	10.0	10.0	10.0	7.5	5.0
-87.5°	8.2	8.4	8.7	8.9	9.1	9.2	9.4	9.5	9.7	7.3	4.9
-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: P699912 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-3L-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.0	0.0	0.0	0.0	0.0	2.5	4.9	7.3	9.7	9.5
85°	9.9	9.9	10.0	10.0	10.0	9.9	9.9	9.8	9.9	10.1	12.3
82.5°	19.7	19.9	20.0	20.0	20.0	19.9	19.7	19.5	19.3	19.0	19.0
80°	29.7	29.8	30.0	30.0	30.0	29.8	29.7	29.4	29.0	28.6	28.1
77.5°	39.6	39.8	40.0	40.0	40.0	39.8	39.6	39.2	38.8	38.3	37.7
75°	49.5	49.8	49.9	50.0	49.9	49.8	49.5	49.1	48.5	47.9	47.2
72.5°	59.4	59.7	59.9	60.0	59.9	59.7	59.4	58.9	58.3	57.5	56.7
70°	78.6	79.4	79.8	80.0	79.8	79.4	78.6	77.5	76.1	73.7	70.1
67.5°	95.5	98.9	99.8	100.0	99.8	98.9	95.5	92.2	88.9	86.4	83.9
65°	108.8	109.6	109.9	110.0	109.9	109.6	108.8	107.4	105.3	102.7	100.2
62.5°	142.8	147.6	149.5	150.0	149.5	147.6	142.8	137.7	132.2	127.9	123.5
60°	199.6	206.2	213.4	220.0	213.4	206.2	199.6	191.5	181.9	170.7	159.6
57.5°	430.6	504.2	563.6	610.0	563.6	504.2	430.6	359.5	295.4	258.9	226.2
55°	821.5	1002.6	1131.9	1220.0	1131.9	1002.6	821.5	645.7	487.3	413.8	345.3
52.5°	1127.3	1359.4	1511.7	1600.0	1511.7	1359.4	1127.3	896.4	696.0	596.8	500.6
50°	1243.6	1470.4	1612.9	1680.0	1612.9	1470.4	1243.6	1014.5	832.9	736.1	636.7
47.5°	1156.6	1310.1	1419.4	1490.0	1419.4	1310.1	1156.6	992.7	875.4	802.4	717.3
45°	1009.1	1082.0	1128.1	1150.0	1128.1	1082.0	1009.1	921.6	871.0	827.0	762.8
42.5°	1025.2	1074.2	1100.5	1100.0	1100.5	1074.2	1025.2	960.4	921.1	876.4	828.5
40°	1264.8	1351.9	1413.9	1430.0	1413.9	1351.9	1264.8	1169.4	1092.5	1014.5	957.0
37.5°	1632.7	1717.6	1768.1	1770.0	1768.1	1717.6	1632.7	1513.5	1372.6	1232.2	1134.7
35°	2027.4	2130.5	2202.5	2190.0	2202.5	2130.5	2027.4	1882.1	1706.8	1532.7	1379.9
32.5°	2465.3	2587.1	2673.9	2690.0	2673.9	2587.1	2465.3	2306.0	2058.0	1839.2	1703.0
30°	3580.9	3774.0	3825.4	3810.0	3825.4	3774.0	3580.9	3361.6	2822.7	2634.1	2346.3
27.5°	7705.2	8056.4	7903.7	7970.0	7903.7	8056.4	7705.2	6954.9	5140.9	5325.0	4046.8
25°	13950.1	13371.7	12642.8	12100.0	12642.8	13371.7	13950.1	14117.2	13733.0	12277.5	9974.3
22.5°	25492.5	26342.2	26994.7	27050.0	26994.7	26342.2	25492.5	23725.0	23102.6	22387.0	20971.5
20°	43499.7	46433.5	48555.3	49600.1	48555.3	46433.5	43499.7	39351.3	36184.2	33116.6	31631.1
17.5°	65703.3	72512.4	76743.9	79470.1	76743.9	72512.4	65703.3	58037.7	51783.5	46291.9	42265.7
15°	93071.8	106918.4	114776.8	115920.1	114776.8	106918.4	93071.8	78804.5	68113.5	59611.3	53115.2
12.5°	128450.0	152511.2	171000.8	176705.2	171000.8	152511.2	128450.0	106214.4	84404.4	72119.7	63075.5
10°	179974.6	238471.9	319882.4	338490.4	319882.4	238471.9	179974.6	139524.8	107503.6	84769.0	70666.9
7.5°	294428.1	512766.9	744145.2	800576.0	744145.2	512766.9	294428.1	179581.4	130066.6	98614.9	79022.0
5°	492404.4	897435.8	#####	#####	#####	897435.8	492404.4	240721.2	155883.5	112951.9	85996.6
2.5°	675130.8	#####	#####	#####	#####	#####	675130.8	309974.8	176350.9	122782.2	91112.5
0°	679675.8	#####	#####	#####	#####	#####	679675.8	317520.4	183280.2	127880.2	94470.1
-2.5°	555729.7	840378.6	#####	#####	#####	840378.6	555729.7	295557.2	179064.5	126733.7	95439.3
-5°	374306.2	593236.9	754947.8	825071.0	754947.8	593236.9	374306.2	235983.3	162036.5	121725.3	95924.8
-7.5°	258548.0	357986.9	468844.1	499385.6	468844.1	357986.9	258548.0	188712.6	142999.7	113712.2	95328.3
-10°	190649.2	228286.1	267376.5	276140.3	267376.5	228286.1	190649.2	153802.4	127058.5	105823.1	94004.8
-12.5°	151453.3	171857.5	189041.7	191675.2	189041.7	171857.5	151453.3	132227.4	112787.2	102768.4	96158.4
-15°	129683.8	141127.3	148700.1	153080.2	148700.1	141127.3	129683.8	117652.5	108914.8	102675.3	98327.1
-17.5°	118341.1	123588.3	127236.9	130010.2	127236.9	123588.3	118341.1	112012.4	107952.6	103845.3	101106.5
-20°	113201.3	115907.9	118522.8	120430.1	118522.8	115907.9	113201.3	110217.0	107502.8	104891.2	102075.6



REPORT NUMBER: P699912 (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°	109866.7	111730.9	113358.8	115170.1	113358.8	111730.9	109866.7	108106.2	106010.0	104100.5	100982.8
-25°	105909.7	107312.9	108540.7	109770.1	108540.7	107312.9	105909.7	104619.5	103038.1	100820.7	98030.0
-27.5°	101050.2	102036.3	102760.0	103630.1	102760.0	102036.3	101050.2	100013.6	98602.4	95858.3	92961.7
-30°	95421.6	96383.3	96847.1	97570.1	96847.1	96383.3	95421.6	93993.3	91979.2	86649.9	79407.3
-32.5°	86078.7	88405.3	89858.2	91180.1	89858.2	88405.3	86078.7	82427.0	77327.5	70164.5	61428.8
-35°	68820.8	71504.7	73141.2	74860.1	73141.2	71504.7	68820.8	64170.2	57420.6	49551.9	42677.2
-37.5°	47480.7	49466.8	50561.7	51810.1	50561.7	49466.8	47480.7	43805.4	38204.1	31847.1	27818.5
-40°	29709.1	30872.8	31412.4	31280.0	31412.4	30872.8	29709.1	27882.4	24933.4	21487.1	18566.3
-42.5°	19378.4	20181.3	20774.7	21390.0	20774.7	20181.3	19378.4	18132.9	16287.1	14216.7	12233.7
-45°	12190.9	12893.0	13310.8	13380.0	13310.8	12893.0	12190.9	11302.9	10226.2	8903.1	7405.6
-47.5°	7296.6	7636.4	7924.1	8170.0	7924.1	7636.4	7296.6	6822.0	6149.9	5306.4	4361.7
-50°	4078.8	4291.4	4466.1	4600.0	4466.1	4291.4	4078.8	3780.0	3370.9	2852.4	2282.2
-52.5°	1955.1	2071.1	2164.8	2230.0	2164.8	2071.1	1955.1	1802.5	1610.3	1365.6	1092.8
-55°	852.9	890.1	920.1	940.0	920.1	890.1	852.9	801.0	733.9	641.2	542.7
-57.5°	416.0	423.4	420.3	410.0	420.3	423.4	416.0	406.5	395.4	376.7	353.9
-60°	311.6	309.0	309.4	310.0	309.4	309.0	311.6	313.0	313.1	303.2	289.6
-62.5°	258.4	257.6	259.1	260.0	259.1	257.6	258.4	256.9	253.0	240.7	224.0
-65°	178.4	178.5	179.5	180.0	179.5	178.5	178.4	176.9	173.9	167.3	158.3
-67.5°	126.8	128.6	129.7	130.0	129.7	128.6	126.8	124.2	121.0	117.1	112.5
-70°	88.6	89.4	94.5	100.0	94.5	89.4	88.6	87.5	86.1	84.3	82.3
-72.5°	68.8	69.5	69.9	70.0	69.9	69.5	68.8	67.8	66.6	65.1	63.3
-75°	49.5	49.8	49.9	50.0	49.9	49.8	49.5	49.1	48.5	47.9	47.2
-77.5°	39.1	39.6	39.9	40.0	39.9	39.6	39.1	38.5	37.6	36.5	35.3
-80°	19.7	19.8	24.9	30.0	24.9	19.8	19.7	19.4	19.0	18.7	18.6
-82.5°	9.8	9.9	10.0	10.0	10.0	9.9	9.8	9.8	9.8	10.1	12.3
-85°	2.5	0.0	0.0	0.0	0.0	0.0	2.5	5.0	7.5	10.0	10.0
-87.5°	2.5	0.0	0.0	0.0	0.0	0.0	2.5	4.9	7.3	9.7	9.5
-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):**

	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°	9.4	9.2	9.1	11.1	13.0	14.8	16.4	15.9	15.3	14.7	14.1
85°	14.5	16.4	18.1	18.3	18.7	19.2	20.0	20.0	20.0	20.0	20.0
82.5°	19.1	19.5	20.0	20.0	20.0	20.0	20.1	21.0	21.5	21.6	21.2
80°	27.6	26.9	26.2	25.4	24.6	23.7	23.0	24.1	25.7	27.5	28.2
77.5°	36.9	36.1	35.0	33.0	31.4	30.4	30.1	29.7	29.2	29.4	30.0
75°	46.3	45.3	43.8	40.8	37.0	32.4	30.8	32.6	33.4	33.4	32.2
72.5°	55.7	54.5	53.3	51.9	50.4	47.7	43.6	40.3	38.7	39.1	39.1
70°	66.9	64.1	62.2	60.6	58.9	57.1	54.2	50.0	44.5	40.5	40.0
67.5°	80.6	76.2	72.3	69.4	67.4	65.3	63.1	60.7	56.9	51.2	45.0
65°	97.2	93.9	90.2	86.1	81.8	77.1	72.0	68.4	65.6	62.4	56.4
62.5°	118.6	113.0	107.9	103.4	98.6	93.4	87.8	81.9	75.7	69.6	64.9
60°	149.3	139.6	130.8	122.7	115.6	109.5	103.4	97.0	90.2	82.0	74.5
57.5°	196.1	175.0	162.3	148.7	134.3	127.2	121.0	112.5	104.4	95.1	84.1
55°	284.2	248.7	220.5	191.8	166.7	155.8	143.9	133.3	123.1	110.2	99.0
52.5°	409.9	357.8	310.0	262.5	229.2	202.3	175.0	161.1	146.7	132.8	117.3
50°	537.1	478.4	419.3	361.6	314.6	269.9	234.1	201.3	178.8	160.9	140.5
47.5°	638.3	587.2	528.9	464.6	413.0	357.9	307.6	259.5	226.7	195.9	172.3
45°	718.0	678.9	629.1	571.3	517.8	458.3	392.1	334.6	282.3	243.4	209.2
42.5°	797.2	760.2	715.5	669.7	618.9	557.7	491.6	418.3	350.7	294.5	253.8
40°	904.4	843.2	799.7	756.2	705.6	650.6	586.2	510.9	429.7	355.4	303.5
37.5°	1049.0	976.0	901.0	834.6	784.4	732.9	676.3	602.8	514.9	434.4	365.7
35°	1218.7	1108.6	1019.9	931.2	859.8	810.0	756.3	689.8	608.1	525.9	435.6
32.5°	1477.1	1379.7	1166.2	1052.2	961.4	890.5	827.9	765.9	706.4	620.2	523.7
30°	2114.3	2068.8	1665.7	1372.0	1236.5	1006.6	901.8	860.9	797.5	713.8	612.5
27.5°	4336.2	3662.5	3081.9	2883.1	1916.7	1386.2	1102.4	976.8	897.6	804.1	701.0
25°	9465.8	7804.6	7063.4	6204.5	4339.0	2276.7	1640.9	1239.1	1022.8	905.5	821.7
22.5°	17816.0	15677.0	13691.7	11261.0	8627.7	5642.1	2877.2	1621.3	1211.5	1115.5	975.6
20°	29289.8	25366.6	22039.8	18565.3	14790.9	10237.3	5181.1	2803.3	1822.0	1403.5	1163.0
17.5°	39603.0	36316.5	31146.8	26569.6	21837.3	16258.0	10054.4	4821.7	2594.6	1748.8	1378.7
15°	48988.3	45793.3	40777.2	34951.2	29247.4	23044.4	15717.9	7266.2	3777.6	2308.1	1708.6
12.5°	57046.1	53420.8	50011.4	42839.8	36515.3	29819.5	21703.0	12041.7	5796.4	3296.0	2265.2
10°	63513.2	59389.1	55920.0	50094.3	43348.8	36193.8	27609.5	16838.6	8029.2	4463.9	2902.9
7.5°	68796.0	63581.6	60509.4	56203.3	49692.9	42541.3	33420.9	21447.4	10140.8	5665.5	3590.8
5°	72821.4	66853.7	63918.0	60921.4	55322.8	48543.7	38996.5	25699.3	12082.6	6855.6	4295.1
2.5°	76176.1	69527.1	66723.4	64728.4	60224.0	54022.8	43840.2	29113.9	13921.4	7989.7	5058.1
0°	<b>78820.1</b>	<b>72080.1</b>	<b>69380.1</b>	<b>67960.1</b>	<b>64420.1</b>	<b>58820.1</b>	<b>47570.1</b>	<b>31490.0</b>	<b>15550.0</b>	<b>9010.0</b>	<b>5760.0</b>
-2.5°	81094.7	74761.7	72471.4	71196.1	68135.3	62650.1	50282.6	33293.7	17379.7	10134.8	6306.7
-5°	83403.5	78075.7	76065.3	74557.8	71346.8	65005.1	51471.2	33817.0	18549.7	10960.0	6724.1
-7.5°	85954.8	81665.4	79674.9	77811.1	74126.0	66102.4	51049.5	33008.6	18762.8	11185.1	6812.4
-10°	88432.1	85536.3	83484.9	80804.9	76322.9	66025.8	49097.7	31300.9	18407.3	11078.1	6726.8
-12.5°	92026.9	89307.2	86834.1	83368.0	77935.2	64326.5	45551.8	28562.4	17433.8	10596.5	6449.4
-15°	95680.4	92702.2	89025.7	84437.7	76003.6	60257.5	40845.4	24107.0	15367.0	9609.3	5964.3
-17.5°	97967.5	94708.1	90315.4	84535.8	71499.1	53701.5	35137.0	21197.4	13483.9	8347.6	5150.1
-20°	99005.0	94728.1	89306.9	79731.0	64620.9	45555.2	27769.5	17923.5	11556.7	7233.3	4480.8



REPORT NUMBER: P699912 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-3L-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	97672.4	92375.4	84552.8	72664.4	54303.6	36618.5	22776.0	14745.9	9279.5	5893.4	3701.2
-25°	93541.2	86492.4	75567.4	59805.8	43040.7	27153.3	18297.1	12025.5	7632.5	4696.3	2868.9
-27.5°	84701.3	75191.4	61810.7	46617.5	31323.3	21571.2	14306.5	9118.6	5801.6	3666.5	2290.3
-30°	70156.5	58532.5	46417.0	33340.8	23897.4	16139.0	10440.1	6937.1	4374.6	2651.3	1680.1
-32.5°	51932.8	41850.8	31339.5	24406.1	17203.2	11352.6	7694.2	4866.1	3003.4	1958.1	1254.9
-35°	34487.4	28065.2	22148.2	16728.4	11242.8	7973.5	5248.2	3357.3	2097.1	1320.3	894.4
-37.5°	23466.7	19085.4	15058.0	10772.3	7801.2	5309.6	3548.0	2270.2	1336.7	940.9	672.7
-40°	15788.6	12536.1	9951.5	7207.7	5169.7	3424.2	2315.6	1398.6	964.2	656.2	514.5
-42.5°	10240.5	8117.3	6314.2	4660.8	3185.0	2190.0	1376.3	945.9	646.8	496.1	428.7
-45°	6248.0	4987.2	3707.1	2789.3	1863.3	1282.8	838.0	605.1	458.8	406.0	368.9
-47.5°	3591.3	2831.1	2052.0	1513.2	1060.9	698.9	535.7	395.7	378.0	351.8	325.9
-50°	1809.2	1443.7	1064.9	739.9	588.9	440.7	372.9	346.1	330.8	312.6	275.2
-52.5°	824.8	695.5	563.9	431.0	375.2	345.6	321.5	310.2	296.9	254.2	200.4
-55°	440.6	395.1	363.2	332.1	306.9	298.6	289.4	266.2	221.8	174.0	151.8
-57.5°	327.4	305.4	294.2	283.4	273.1	251.1	218.7	180.6	156.1	137.5	118.0
-60°	274.9	260.8	244.1	222.9	197.0	168.8	153.6	137.4	120.4	109.6	98.5
-62.5°	206.4	188.0	172.1	158.2	143.4	128.4	116.7	107.9	98.6	89.2	81.2
-65°	149.1	139.7	128.2	118.3	109.1	100.6	93.1	86.7	81.1	75.0	66.4
-67.5°	107.2	101.3	94.5	88.7	84.8	80.6	76.2	71.4	66.4	61.1	55.0
-70°	80.0	77.4	74.5	71.3	67.8	64.1	60.2	56.0	51.5	47.0	42.7
-72.5°	61.3	59.0	56.5	53.8	50.8	48.8	46.7	43.4	39.0	33.5	31.2
-75°	46.3	45.3	44.3	43.1	41.8	40.4	38.1	34.8	32.3	30.6	30.2
-77.5°	33.9	32.3	30.8	30.3	30.2	30.6	30.8	29.5	28.2	26.7	25.5
-80°	18.9	19.3	20.2	21.6	22.5	22.9	22.7	21.7	20.6	20.0	20.4
-82.5°	14.2	15.9	17.2	17.5	18.1	18.9	20.0	20.0	20.0	20.0	20.0
-85°	10.0	10.0	10.1	12.0	13.7	15.2	16.4	16.9	17.7	18.7	20.0
-87.5°	9.4	9.2	9.1	8.9	8.7	8.4	8.2	9.9	11.5	12.9	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: P699912 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-3L-S

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.5	12.9	12.2	11.5	10.7	10.0	9.2	8.5	7.7	6.8	6.0
85°	20.0	20.0	20.0	20.0	20.2	20.0	18.5	16.9	15.3	13.7	12.0
82.5°	20.2	20.0	20.0	20.2	21.7	22.6	22.9	22.6	21.5	20.2	18.0
80°	26.9	25.6	24.3	23.2	23.9	25.3	26.6	26.8	25.2	23.6	22.0
77.5°	30.0	30.0	30.0	28.6	27.7	27.7	28.6	30.0	29.0	27.0	24.9
75°	30.3	30.0	30.0	30.4	30.7	29.9	29.6	30.0	30.0	30.0	27.9
72.5°	36.9	34.6	32.2	31.2	32.7	32.8	31.7	30.0	30.0	30.0	30.0
70°	40.0	40.0	38.1	36.0	35.5	36.1	35.7	33.2	30.1	30.0	30.0
67.5°	40.0	40.0	40.0	40.2	38.6	38.2	39.4	37.2	33.7	30.1	30.0
65°	49.4	43.7	40.2	41.6	41.2	39.7	39.9	40.0	37.2	33.2	30.0
62.5°	58.4	50.6	45.7	44.1	44.1	42.7	40.0	40.0	40.0	36.3	31.9
60°	68.3	60.5	51.8	47.9	47.0	46.7	43.4	40.0	40.0	39.4	34.6
57.5°	76.5	70.8	62.7	53.6	49.1	49.3	47.5	42.5	40.0	40.0	37.2
55°	85.3	76.5	71.7	63.7	53.6	49.9	50.3	46.1	40.7	40.0	39.7
52.5°	101.7	86.7	77.0	71.7	62.7	52.1	51.4	49.6	43.9	40.0	40.0
50°	121.8	104.6	87.4	76.5	70.8	60.5	53.0	51.6	47.0	40.8	40.0
47.5°	146.3	126.0	105.3	84.5	75.1	68.1	58.3	53.8	49.9	43.4	40.0
45°	179.8	150.4	125.8	102.1	80.0	73.6	64.3	56.4	52.4	46.0	40.0
42.5°	216.5	181.5	149.4	120.0	95.7	78.9	69.4	60.8	55.2	48.4	41.2
40°	260.4	216.6	175.7	143.2	113.6	85.0	74.7	64.8	58.2	50.8	43.3
37.5°	306.3	256.5	208.5	166.8	132.6	101.5	80.4	68.2	60.7	53.0	45.2
35°	363.6	300.7	243.7	195.3	154.3	118.0	86.4	72.0	63.1	55.1	47.0
32.5°	421.2	349.2	286.0	228.2	175.9	134.4	97.7	77.4	65.3	57.1	48.8
30°	499.4	406.5	328.4	261.5	199.8	153.3	111.8	82.9	67.4	58.9	50.4
27.5°	591.7	466.3	372.6	298.0	229.4	172.0	125.0	88.4	69.4	60.6	51.9
25°	689.7	544.6	426.6	334.6	258.8	190.0	137.4	94.3	72.9	62.2	53.3
22.5°	805.0	629.9	481.5	370.0	285.3	208.1	150.5	104.5	77.3	63.7	54.5
20°	933.2	715.5	538.5	409.8	312.9	230.4	164.9	113.9	81.6	65.0	55.7
17.5°	1076.7	831.1	624.5	462.1	342.4	250.7	178.7	122.4	85.7	66.2	56.7
15°	1333.2	997.3	721.1	515.9	371.8	269.2	191.8	130.0	89.6	67.2	57.5
12.5°	1645.6	1179.7	822.4	570.0	400.4	285.5	204.0	136.6	93.2	68.8	58.3
10°	1985.9	1371.8	925.4	623.1	427.8	299.8	215.1	142.5	95.9	71.2	58.9
7.5°	2340.4	1566.8	1026.7	673.6	453.9	309.8	222.1	148.2	97.9	73.5	59.4
5°	2715.2	1794.0	1167.2	747.4	482.3	315.5	226.6	153.1	99.1	75.8	59.7
2.5°	3163.8	2067.2	1329.5	822.2	508.2	318.9	229.2	157.1	99.8	78.0	59.9
0°	3580.0	2320.0	1480.0	890.0	530.0	320.0	230.0	160.0	100.0	80.0	60.0
-2.5°	3881.7	2479.2	1557.9	940.4	574.7	356.1	244.7	166.3	101.9	79.8	59.9
-5°	4115.1	2598.3	1613.0	979.4	613.0	388.3	257.3	171.1	103.3	79.4	59.7
-7.5°	4173.1	2616.8	1619.8	999.9	644.0	415.1	267.1	174.1	104.1	78.6	59.4
-10°	4114.6	2549.7	1563.1	964.0	629.0	420.4	272.6	175.0	104.2	77.5	58.9
-12.5°	3949.8	2426.7	1478.6	915.4	601.9	407.7	267.3	170.4	103.3	76.1	58.3
-15°	3668.7	2243.4	1364.9	853.7	570.6	391.9	258.6	162.2	100.3	74.3	57.5
-17.5°	3235.5	1996.4	1221.1	778.6	535.8	373.2	246.0	152.1	96.9	72.3	56.7
-20°	2779.5	1718.0	1061.7	690.0	497.9	351.8	229.5	140.2	92.9	70.0	55.7



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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°	2318.0	1450.0	926.4	632.0	462.5	328.0	208.9	126.4	88.5	67.4	54.5
-25°	1816.9	1165.7	784.9	567.6	431.5	303.7	188.3	110.7	83.5	64.5	53.3
-27.5°	1434.0	905.8	646.3	503.3	388.1	274.1	169.4	104.2	78.7	61.3	51.9
-30°	1095.4	752.7	560.4	443.2	344.2	236.0	148.4	97.6	74.8	58.9	50.4
-32.5°	803.9	607.3	490.2	393.6	299.9	197.9	125.1	90.6	70.6	57.1	48.8
-35°	656.9	513.2	423.5	344.4	255.5	170.4	106.7	83.1	66.2	55.1	47.0
-37.5°	514.2	444.0	370.6	295.7	211.2	141.3	97.9	76.7	61.4	53.0	45.2
-40°	445.0	383.9	321.2	247.8	175.0	110.8	88.6	71.1	58.2	50.8	43.3
-42.5°	382.0	334.4	270.2	200.1	140.1	99.6	79.2	65.2	55.6	48.4	41.2
-45°	334.5	282.8	215.6	160.4	108.0	88.5	72.5	59.6	52.8	46.0	39.3
-47.5°	284.6	221.0	169.1	122.2	95.6	77.9	65.4	56.4	49.9	43.4	37.5
-50°	215.4	168.6	131.2	102.8	83.5	70.0	59.1	53.1	47.0	40.8	35.3
-52.5°	162.1	132.4	107.4	89.3	73.9	61.8	55.3	49.6	43.9	38.1	32.9
-55°	127.0	109.1	92.4	77.0	64.1	56.7	51.4	46.1	40.7	35.3	30.5
-57.5°	105.4	92.5	77.8	64.6	57.1	52.3	47.5	42.5	37.5	32.4	30.1
-60°	87.3	75.5	62.5	56.7	52.3	47.9	43.4	38.8	34.1	30.0	30.0
-62.5°	71.1	60.6	55.3	51.4	47.5	43.4	39.2	35.0	30.7	30.0	30.0
-65°	59.4	53.7	49.6	46.1	42.5	38.8	35.0	31.2	30.0	30.0	29.9
-67.5°	49.9	46.1	43.7	40.7	37.5	34.1	30.7	30.0	30.0	30.0	29.6
-70°	39.7	37.8	37.4	35.3	32.4	30.0	30.0	30.0	30.0	28.8	29.0
-72.5°	32.7	32.9	31.9	30.0	30.0	30.0	30.0	29.3	27.7	27.4	28.4
-75°	30.1	29.3	29.4	30.0	30.0	29.7	27.5	25.5	25.1	25.8	26.3
-77.5°	25.7	26.5	28.2	28.5	26.7	24.9	22.9	21.5	22.7	23.8	23.9
-80°	22.0	23.1	23.4	22.9	21.4	20.0	20.0	20.2	21.5	21.9	21.5
-82.5°	20.1	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.4	20.1	18.0
-85°	20.0	20.0	20.0	20.0	20.0	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



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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°	20.3	17.2	13.8	10.4	6.9	3.5	0.0
77.5°	22.8	20.7	17.2	13.0	8.6	4.3	0.0
75°	25.4	22.8	20.3	15.5	10.3	5.2	0.0
72.5°	27.9	24.9	22.0	18.0	12.0	6.0	0.0
70°	30.0	27.0	23.6	20.2	13.7	6.8	0.0
67.5°	30.0	29.0	25.2	21.5	15.3	7.7	0.0
65°	30.0	30.0	26.8	22.6	16.9	8.5	0.0
62.5°	30.0	30.0	28.4	23.8	18.5	9.2	0.0
60°	30.0	30.0	29.9	25.0	20.0	10.0	0.0
57.5°	32.0	30.0	30.0	26.1	20.7	10.7	0.0
55°	34.1	30.0	30.0	27.2	21.5	11.5	0.0
52.5°	36.3	30.3	30.0	28.2	22.2	12.2	0.0
50°	38.3	32.0	30.0	29.3	22.8	12.9	0.0
47.5°	40.0	33.6	30.0	30.0	23.5	13.5	0.0
45°	40.0	35.2	30.0	30.0	24.1	14.1	0.0
42.5°	40.0	36.7	30.0	30.0	24.7	14.7	0.0
40°	40.0	38.2	30.6	30.0	25.3	15.3	0.0
37.5°	40.0	39.5	31.7	30.0	25.9	15.9	0.0
35°	40.0	40.0	32.7	30.0	26.4	16.4	0.0
32.5°	40.4	40.0	33.7	30.0	26.9	16.9	0.0
30°	41.8	40.0	34.6	30.0	27.3	17.3	0.0
27.5°	43.1	40.0	35.4	30.0	27.7	17.7	0.0
25°	44.3	40.0	36.2	30.0	28.1	18.1	0.0
22.5°	45.3	40.0	36.9	30.0	28.5	18.5	0.0
20°	46.3	40.0	37.6	30.0	28.8	18.8	0.0
17.5°	47.2	40.0	38.1	30.0	29.1	19.1	0.0
15°	47.9	40.0	38.6	30.0	29.3	19.3	0.0
12.5°	48.5	40.0	39.0	30.0	29.5	19.5	0.0
10°	49.1	40.0	39.4	30.0	29.7	19.7	0.0
7.5°	49.5	40.0	39.7	30.0	29.8	19.8	0.0
5°	49.8	40.0	39.8	30.0	29.9	19.9	0.0
2.5°	49.9	40.0	40.0	30.0	30.0	20.0	0.0
0°	50.0	40.0	40.0	30.0	30.0	20.0	0.0
-2.5°	49.9	40.0	40.0	30.0	30.0	20.0	0.0
-5°	49.8	40.0	39.8	30.0	29.9	19.9	0.0
-7.5°	49.5	40.0	39.7	30.0	29.8	19.8	0.0
-10°	49.1	40.0	39.4	30.0	29.7	19.7	0.0
-12.5°	48.5	40.0	39.0	30.0	29.5	19.5	0.0
-15°	47.9	40.0	38.6	30.0	29.3	19.3	0.0
-17.5°	47.2	40.0	38.1	30.0	29.1	19.1	0.0
-20°	46.3	40.0	37.6	30.0	28.8	18.8	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	45.3	40.0	36.9	30.0	28.5	18.5	0.0
-25°	44.3	39.8	36.2	30.0	28.1	18.1	0.0
-27.5°	43.1	39.5	35.4	30.0	27.7	17.7	0.0
-30°	41.8	39.1	34.6	30.0	27.3	17.3	0.0
-32.5°	40.4	38.6	33.5	30.0	26.9	16.9	0.0
-35°	39.6	37.9	32.5	30.0	26.4	16.4	0.0
-37.5°	38.9	37.0	31.5	30.0	25.9	15.9	0.0
-40°	38.0	35.6	30.5	30.0	25.3	15.3	0.0
-42.5°	36.8	34.4	30.0	30.0	24.7	14.7	0.0
-45°	35.5	33.2	30.0	30.0	24.1	14.1	0.0
-47.5°	34.0	32.1	30.0	30.0	23.5	13.5	0.0
-50°	32.8	31.1	30.0	29.3	22.8	12.9	0.0
-52.5°	31.9	30.1	30.0	28.2	22.2	12.2	0.0
-55°	31.1	30.0	30.0	27.2	21.5	11.5	0.0
-57.5°	30.4	30.0	30.0	26.1	20.7	10.7	0.0
-60°	30.0	30.0	29.9	25.0	20.0	10.0	0.0
-62.5°	30.0	30.0	28.4	23.8	18.5	9.2	0.0
-65°	30.0	30.0	26.8	22.6	16.9	8.5	0.0
-67.5°	30.0	29.0	25.2	21.5	15.3	7.7	0.0
-70°	30.0	27.0	23.6	20.2	13.7	6.8	0.0
-72.5°	27.9	24.9	22.0	18.0	12.0	6.0	0.0
-75°	25.4	22.8	20.3	15.5	10.3	5.2	0.0
-77.5°	22.8	20.7	17.2	13.0	8.6	4.3	0.0
-80°	20.3	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)