

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: P699943 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-70-5L-S**

Issue Date: 8/10/2023

**Test Information**

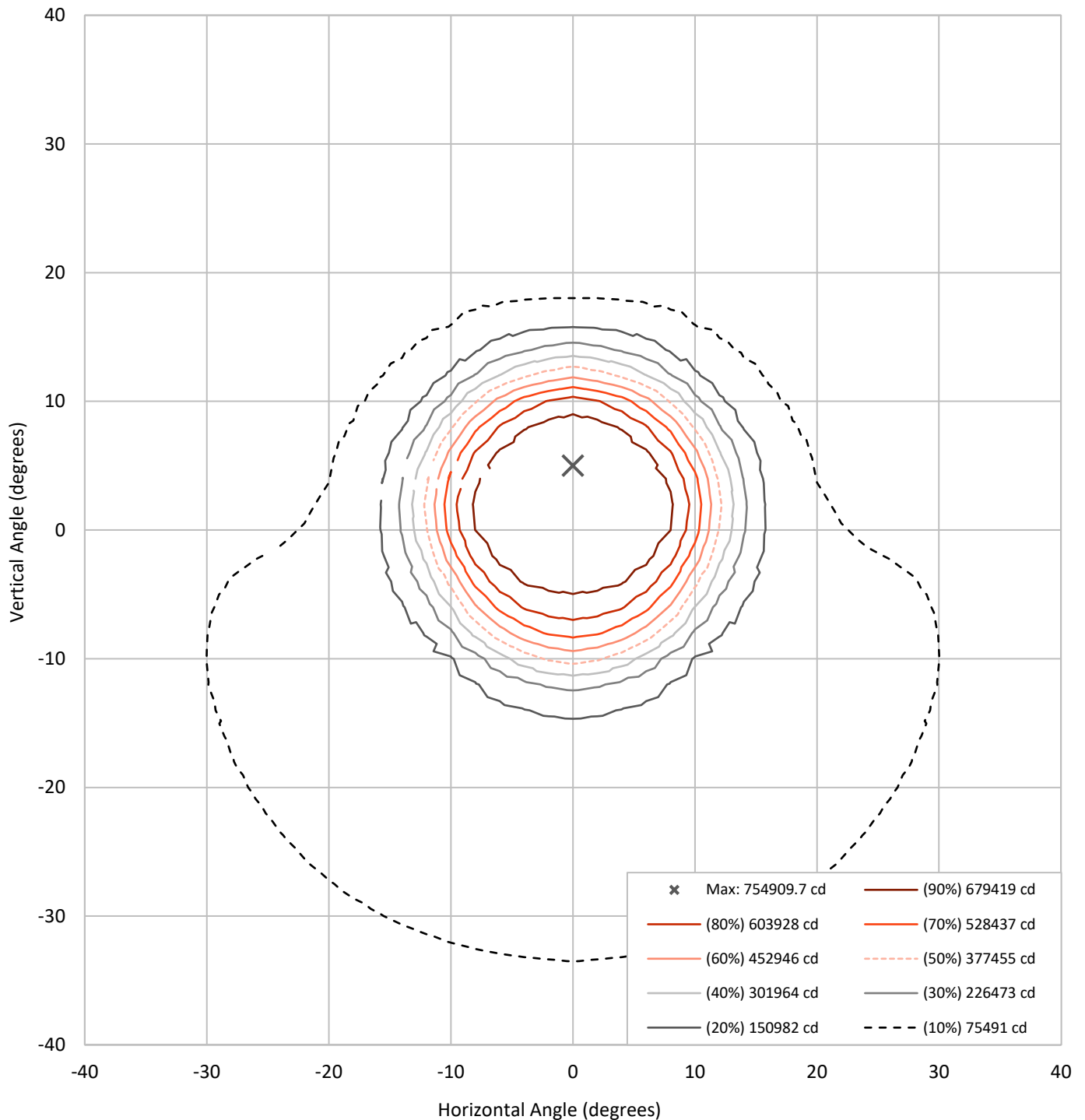
Test Method: LM-79-08  
Report Number: P699943 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200R-40-70-5L-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 4000K, 70 CRI LEDS AND 5L BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 4V
Luminaire Lumens:	178436.3 lumens	Max Intensity:	754909.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	138.5 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	23.3°H x 23°V	Field Angle (10%):	39.5°H x 51.6°V
Beam Lumens:	79188.7 lumens	Field Lumens:	145299.2 lumens
Beam Efficiency:	44.4%	Field Efficiency:	81.4%
Input Watts (W):	1288.4		
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





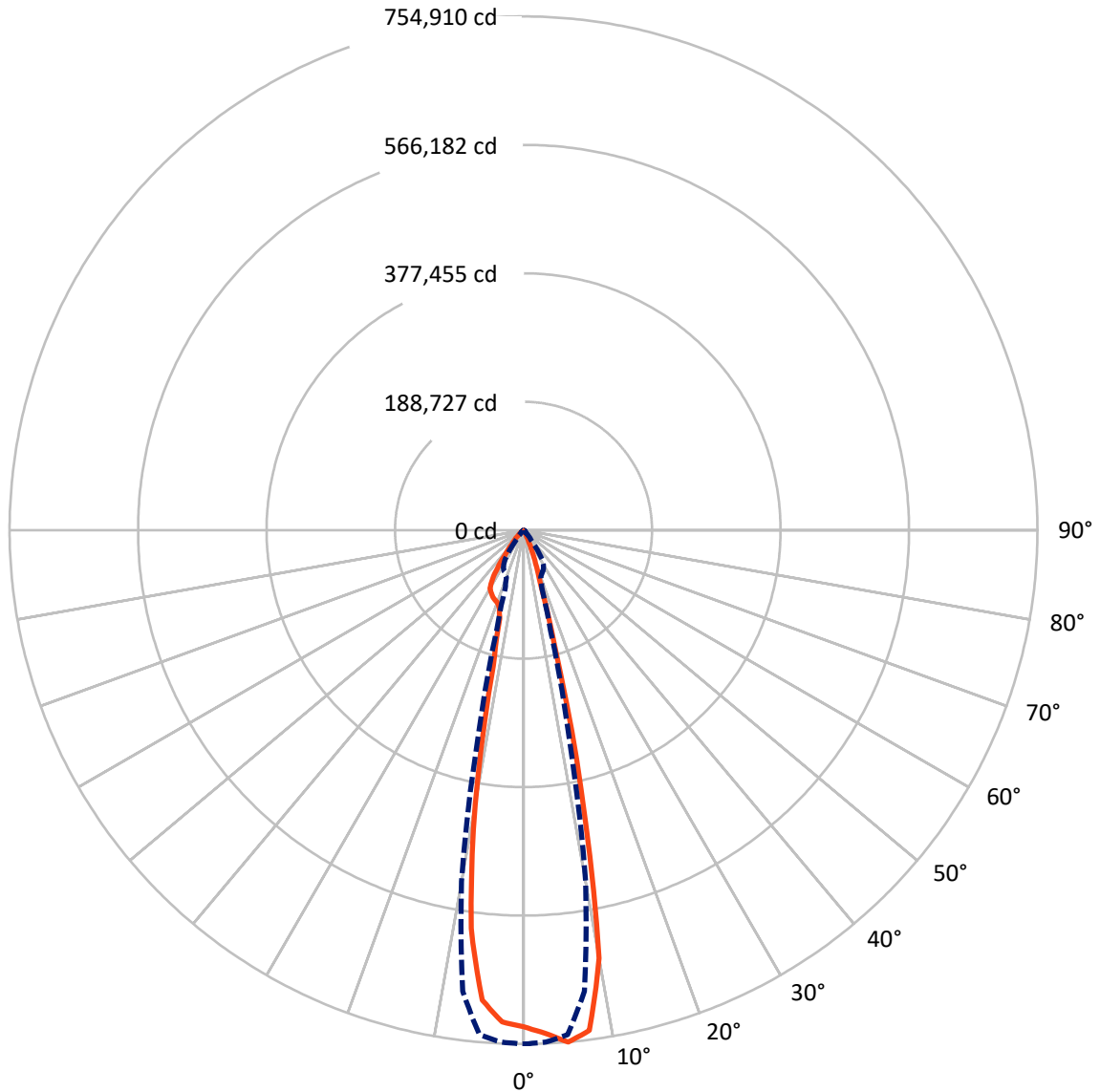
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### Lumen Table

90	0.3	1.2		2.3		3.5		4.1		3.5		2.3		1.2		0.3
80	0.3	1.2		2.3		3.5		4.1		3.5		2.3		1.2		0.3
70	0.5	0.4	0.9	1.5	2.2	3.0	3.7	4.1	4.1	3.7	3.0	2.2	1.5	0.9	0.4	0.5
60		0.7	1.5	2.7	4.4	6.8	11.8	22.0	22.0	11.8	6.8	4.4	2.7	1.5	0.7	
50	0.8	1.0	2.3	4.8	10.0	18.6	30.5	47.0	47.0	30.5	18.6	10.0	4.8	2.3	1.0	0.8
40		1.3	3.5	9.7	21.6	39.1	76.0	100.5	100.5	76.0	39.1	21.6	9.7	3.5	1.3	
30	1.1	1.7	5.6	22.7	71.2	304.8	451.0	552.1	552.1	451.0	304.8	71.2	22.7	5.6	1.7	1.1
20		2.0	9.5	57.1	391.9	1156.0	1993.6	5799.4	5799.4	1993.6	1156.0	391.9	57.1	9.5	2.0	
10	1.2	2.3	14.9	121.5	861.6	1822.6	5762.0	20203.2	20203.2	5762.0	1822.6	861.6	121.5	14.9	2.3	1.2
0		2.5	18.3	159.0	1080.1	2188.2	4839.2	17001.4	17001.4	4839.2	2188.2	1080.1	159.0	18.3	2.5	
-10	1.1	2.4	14.8	127.5	859.6	2386.4	3008.1	4598.9	4598.9	3008.1	2386.4	859.6	127.5	14.8	2.4	1.1
-20		2.0	9.1	67.0	408.9	1649.9	2810.0	3175.4	3175.4	2810.0	1649.9	408.9	67.0	9.1	2.0	
-30	0.8	1.6	4.9	22.0	149.9	539.5	1238.8	1795.7	1795.7	1238.8	539.5	149.9	22.0	4.9	1.6	0.8
-40		1.2	2.9	6.8	30.8	127.3	285.2	410.9	410.9	285.2	127.3	30.8	6.8	2.9	1.2	
-50	0.5	0.8	1.9	3.5	6.2	13.9	32.6	48.0	48.0	32.6	13.9	6.2	3.5	1.9	0.8	0.5
-60		0.5	1.0	1.9	2.8	3.9	5.1	6.0	6.0	5.1	3.9	2.8	1.9	1.0	0.5	
-70	0.3	1.2		2.5		4.0		4.6		4.0		2.5		1.2		0.3
-80		1.2		2.5		4.0		4.6		4.0		2.5		1.2		
-90	0.3	1.2		2.5		4.0		4.6		4.0		2.5		1.2		0.3

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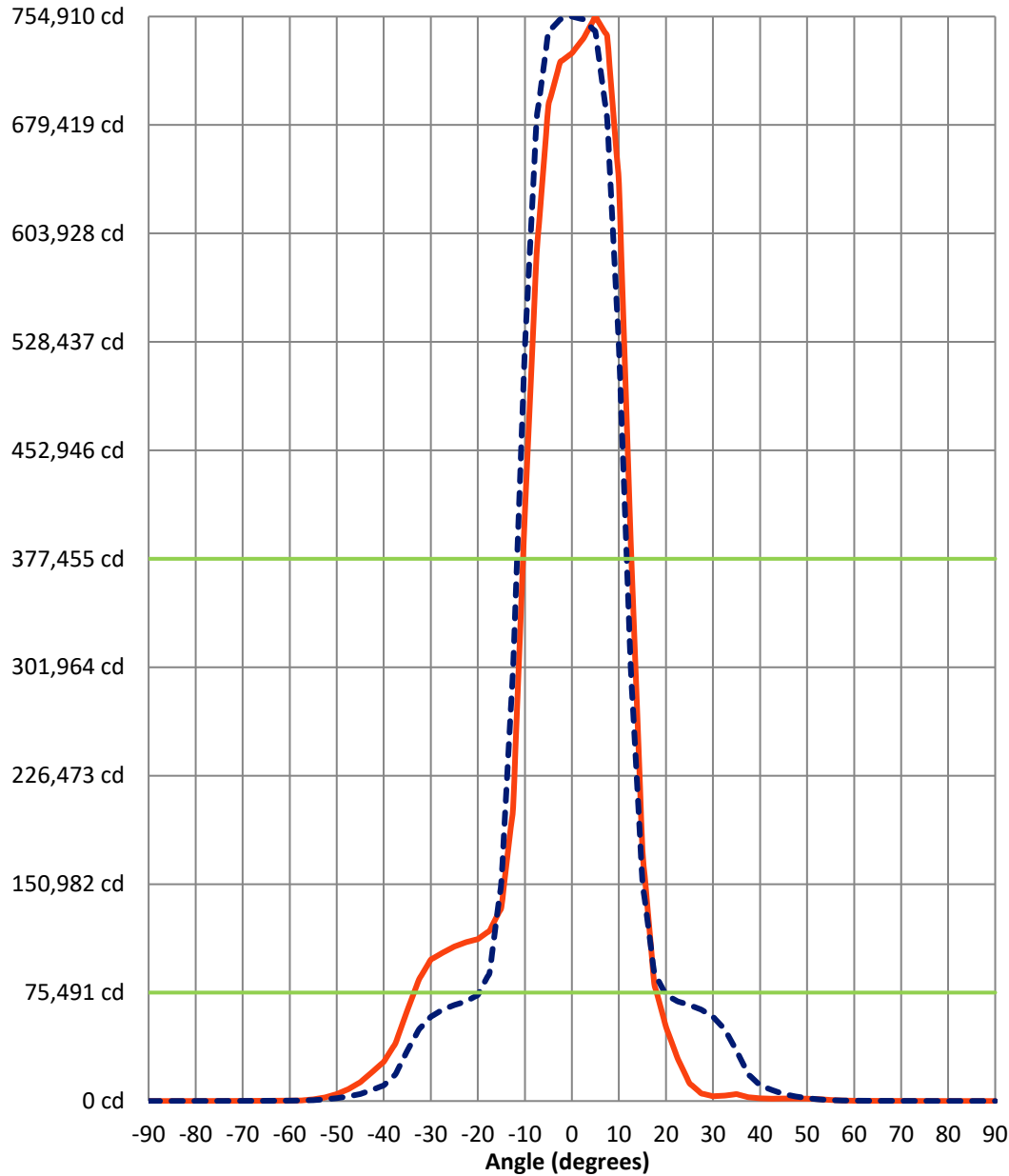
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 5-Deg

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### Luminous Intensity Plot



**Beam:**  
H Angle: 23.3°  
V Angle: 23°  
Lumens: 79188.7  
Efficiency: 44.4%

**Field:**  
H Angle: 39.5°  
V Angle: 51.6°  
Lumens: 145299.2  
Efficiency: 81.4%

**Spill:**  
Lumens: 33137  
Efficiency: 18.6%

— Vertical Distribution through 0-Deg  
- - Horizontal Distribution through 5-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	0.8	1.6	2.4	3.2	4.0	4.8	5.5	6.1	6.8	7.4
85°	0.0	1.6	3.2	4.8	6.4	8.0	9.5	10.9	12.2	13.5	14.7
82.5°	0.0	2.4	4.8	7.2	9.6	11.9	14.2	16.3	18.0	18.3	18.5
80°	0.0	3.2	6.4	9.6	12.7	15.9	18.5	19.0	19.4	19.8	20.2
77.5°	0.0	4.0	8.0	11.9	15.9	18.7	19.6	20.2	20.8	21.4	22.1
75°	0.0	4.8	9.5	14.2	18.5	19.6	20.6	21.4	22.2	23.2	24.2
72.5°	0.0	5.5	11.1	16.6	19.2	20.4	21.6	22.7	23.9	25.1	26.3
70°	0.0	6.3	12.6	18.5	19.9	21.3	22.7	24.2	25.6	27.0	28.7
67.5°	0.0	7.0	14.1	19.0	20.5	22.1	23.9	25.7	27.3	29.3	31.2
65°	0.0	7.8	15.5	19.5	21.2	23.0	25.1	27.1	29.3	31.5	33.8
62.5°	0.0	8.5	17.0	20.0	21.8	24.0	26.3	28.7	31.2	33.8	36.9
60°	0.0	9.2	18.4	20.4	22.5	25.0	27.5	30.4	33.1	36.4	40.0
57.5°	0.0	9.9	18.7	20.9	23.2	25.9	28.9	32.1	35.3	39.0	44.1
55°	0.0	10.6	19.0	21.3	24.0	26.8	30.3	33.7	37.4	41.8	48.7
52.5°	0.0	11.2	19.3	21.8	24.7	27.8	31.7	35.5	39.5	45.9	53.2
50°	0.0	11.8	19.6	22.2	25.4	28.9	33.0	37.3	42.0	50.0	60.4
47.5°	0.0	12.4	19.8	22.6	26.0	30.1	34.4	39.0	45.5	53.9	67.7
45°	0.0	13.0	20.1	23.1	26.7	31.2	35.9	40.8	49.0	60.1	74.7
42.5°	0.0	13.6	20.3	23.6	27.3	32.2	37.3	43.2	52.6	66.1	81.9
40°	0.0	14.1	20.6	24.0	28.0	33.2	38.7	46.2	56.6	71.8	89.0
37.5°	0.0	14.6	20.8	24.4	28.8	34.2	40.1	49.1	61.7	77.8	96.0
35°	0.0	15.1	21.0	24.8	29.5	35.3	41.4	51.9	66.6	84.1	102.1
32.5°	0.0	15.5	21.2	25.2	30.2	36.3	43.0	54.6	71.3	90.0	107.0
30°	0.0	15.9	21.4	25.5	30.9	37.3	45.1	57.5	75.7	95.6	111.8
27.5°	0.0	16.3	21.6	25.9	31.5	38.2	47.2	61.1	80.1	100.9	116.5
25°	0.0	16.7	21.7	26.2	32.1	39.0	49.1	64.5	84.4	105.1	121.1
22.5°	0.0	17.0	21.9	26.4	32.6	39.9	50.9	67.6	88.4	108.8	127.0
20°	0.0	17.3	22.0	26.7	33.0	40.6	52.6	70.5	92.0	112.2	132.5
17.5°	0.0	17.5	22.1	26.9	33.5	41.3	54.0	73.1	95.3	115.4	137.6
15°	0.0	17.8	22.2	27.1	33.8	41.9	55.3	75.4	98.2	118.4	142.3
12.5°	0.0	18.0	22.3	27.2	34.1	42.4	56.4	77.4	101.1	121.1	146.5
10°	0.0	18.1	22.4	27.4	34.4	42.9	57.3	79.1	103.8	124.4	151.1
7.5°	0.0	18.2	22.4	27.5	34.6	43.3	58.1	80.5	106.3	127.6	157.2
5°	0.0	18.3	22.5	27.5	34.7	43.6	58.7	81.6	108.4	130.4	163.0
2.5°	0.0	18.4	22.5	27.6	34.8	43.8	59.1	82.4	110.2	133.0	168.2
0°	0.0	18.4	22.5	27.6	34.8	44.0	59.3	82.9	111.5	135.1	172.9
-2.5°	0.0	18.4	22.5	27.6	34.8	44.1	59.4	83.1	111.8	136.3	176.5
-5°	0.0	18.3	22.5	27.5	34.7	44.0	59.2	82.9	111.7	137.1	179.3
-7.5°	0.0	18.2	22.4	27.5	34.6	43.9	58.9	82.4	111.1	137.4	180.9
-10°	0.0	18.1	22.4	27.4	34.4	43.7	58.5	81.5	110.0	137.1	181.3
-12.5°	0.0	18.0	22.3	27.2	34.1	43.4	57.8	80.3	108.5	136.0	177.8
-15°	0.0	17.8	22.2	27.1	33.8	43.0	57.0	78.8	106.4	133.6	172.3
-17.5°	0.0	17.5	22.1	26.9	33.5	42.4	55.9	76.9	103.8	130.8	166.0
-20°	0.0	17.3	22.0	26.7	33.0	41.8	54.7	74.6	100.7	127.6	159.2



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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	17.0	21.9	26.4	32.6	41.0	53.3	71.9	97.1	124.1	151.7
-25°	0.0	16.7	21.7	26.2	32.1	40.2	51.7	68.9	93.1	120.2	143.9
-27.5°	0.0	16.3	21.6	25.9	31.5	39.1	50.0	65.5	88.7	115.7	138.8
-30°	0.0	15.9	21.4	25.5	30.9	38.0	48.1	61.8	84.2	110.2	133.5
-32.5°	0.0	15.5	21.2	25.2	30.2	36.8	46.0	59.0	79.6	104.2	128.0
-35°	0.0	15.1	21.0	24.8	29.5	35.5	44.2	56.4	74.6	97.7	122.2
-37.5°	0.0	14.6	20.8	24.4	28.8	34.2	42.5	53.6	69.1	90.8	114.8
-40°	0.0	14.1	20.6	24.0	28.0	33.2	40.7	50.7	63.3	84.0	106.3
-42.5°	0.0	13.6	20.3	23.6	27.3	32.2	38.8	47.6	58.9	76.8	97.4
-45°	0.0	13.0	20.1	23.1	26.7	31.2	36.7	44.7	55.2	69.2	88.1
-47.5°	0.0	12.4	19.8	22.6	26.0	30.1	34.5	42.1	51.3	61.3	79.2
-50°	0.0	11.8	19.6	22.1	25.3	28.9	33.0	39.4	47.2	56.7	70.0
-52.5°	0.0	11.2	19.3	21.7	24.5	27.8	31.7	36.5	43.6	52.0	60.8
-55°	0.0	10.6	19.0	21.2	23.7	26.8	30.3	33.7	40.0	47.1	55.4
-57.5°	0.0	9.9	18.7	20.8	22.9	25.7	28.9	32.1	36.3	42.7	49.8
-60°	0.0	9.2	18.4	20.3	22.1	24.7	27.4	30.4	32.9	38.2	44.4
-62.5°	0.0	8.5	17.0	19.8	21.5	23.6	26.1	28.7	30.9	33.7	39.1
-65°	0.0	7.8	15.5	19.3	20.8	22.4	24.7	26.9	28.9	30.9	33.7
-67.5°	0.0	7.0	14.1	18.8	20.1	21.4	23.2	25.2	26.9	28.7	30.4
-70°	0.0	6.3	12.6	18.3	19.4	20.6	21.8	23.5	25.0	26.4	27.9
-72.5°	0.0	5.5	11.1	16.4	18.8	19.7	20.7	21.8	23.1	24.3	25.4
-75°	0.0	4.8	9.5	14.1	18.1	18.9	19.6	20.4	21.2	22.3	23.2
-77.5°	0.0	4.0	8.0	11.8	15.4	18.0	18.6	19.2	19.8	20.4	21.1
-80°	0.0	3.2	6.4	9.4	12.4	15.2	17.5	18.0	18.4	18.8	19.2
-82.5°	0.0	2.4	4.8	7.1	9.3	11.4	13.5	15.4	17.0	17.3	17.5
-85°	0.0	1.6	3.2	4.7	6.2	7.6	9.0	10.3	11.6	12.7	13.9
-87.5°	0.0	0.8	1.6	2.4	3.1	3.8	4.5	5.2	5.8	6.4	6.9
-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°	7.9	8.4	8.9	9.4	9.8	10.2	10.5	10.8	10.9	11.0	11.0
85°	15.8	16.9	17.0	17.0	17.0	16.9	16.8	16.6	16.3	16.0	15.6
82.5°	18.7	19.0	19.2	19.4	19.3	19.2	19.1	18.9	18.8	18.7	18.5
80°	20.6	21.0	21.5	22.0	22.2	22.2	22.1	21.9	21.9	22.0	22.3
77.5°	22.8	23.5	24.2	24.9	25.2	25.6	26.0	26.4	27.0	27.5	27.9
75°	25.1	26.1	27.1	28.2	29.0	29.8	30.7	32.1	33.6	35.2	36.9
72.5°	27.6	29.0	30.4	31.7	33.5	35.3	37.2	39.1	41.4	43.8	46.0
70°	30.4	32.0	34.2	36.6	39.0	41.6	44.6	47.4	50.2	53.2	56.7
67.5°	33.2	35.9	38.7	41.8	45.6	49.2	52.6	57.6	62.4	66.5	70.3
65°	36.8	39.9	44.0	48.4	52.7	58.8	64.8	70.3	75.7	80.6	84.9
62.5°	40.3	45.1	50.1	56.1	63.6	70.5	77.0	83.4	89.4	93.8	97.7
60°	45.1	50.6	58.2	66.9	74.8	82.1	89.4	95.2	100.4	105.3	112.6
57.5°	50.2	58.4	68.5	77.6	85.8	93.3	99.4	105.3	113.8	122.3	131.2
55°	56.6	68.1	78.5	87.9	95.9	102.3	109.9	120.3	130.1	142.3	154.1
52.5°	65.3	77.5	88.1	97.1	104.1	113.1	124.7	137.7	152.1	166.7	186.3
50°	73.6	86.2	97.0	104.4	114.2	127.0	142.5	159.3	178.6	200.1	223.4
47.5°	81.7	94.8	103.5	112.8	127.1	144.1	163.4	185.5	208.9	237.4	263.4
45°	89.7	101.6	110.0	124.6	142.0	163.6	188.9	212.7	246.5	279.8	320.7
42.5°	97.6	107.8	120.4	136.2	160.0	187.8	216.9	251.4	288.7	334.1	399.8
40°	103.5	114.1	131.1	153.1	180.0	215.5	254.0	293.7	338.7	412.6	500.5
37.5°	109.1	123.7	143.0	170.4	206.6	248.2	292.3	345.1	416.3	505.0	623.6
35°	114.7	132.9	159.0	192.1	234.0	284.2	340.4	411.3	516.9	628.7	746.6
32.5°	121.7	141.9	174.9	216.8	266.5	323.2	389.5	511.3	652.7	784.1	873.8
30°	129.5	155.5	192.5	240.8	298.7	369.6	475.8	626.4	813.6	975.1	1084.1
27.5°	137.0	169.3	213.4	267.8	332.5	417.2	589.4	788.9	1007.5	1201.3	1346.9
25°	144.1	182.1	233.5	295.1	375.1	509.9	732.1	996.8	1236.6	1482.4	1701.0
22.5°	152.8	194.0	251.2	321.2	417.7	627.3	927.2	1263.3	1581.6	1835.1	2126.8
20°	162.6	208.6	270.1	347.4	461.7	752.6	1137.8	1570.6	2012.1	2480.0	3036.8
17.5°	171.5	222.0	289.2	386.4	567.5	917.9	1368.4	1908.5	2501.8	3305.9	4523.5
15°	179.3	234.0	306.7	428.2	688.6	1130.1	1696.7	2347.9	3154.6	4396.8	6288.9
12.5°	186.2	244.6	322.5	471.4	811.8	1349.1	2065.4	2938.9	4135.7	5909.1	9792.2
10°	192.0	253.7	336.4	514.6	933.6	1568.7	2452.6	3576.9	5292.2	7646.5	13136.7
7.5°	201.3	263.1	349.5	556.1	1050.1	1782.1	2843.8	4236.9	6506.3	9334.6	16113.1
5°	210.6	272.7	367.1	614.2	1173.8	2001.7	3230.1	4891.7	7722.8	10938.2	18690.9
2.5°	218.9	280.4	382.7	671.6	1294.2	2232.3	3615.7	5494.1	8743.0	12409.9	21018.5
0°	226.1	286.5	395.9	722.3	1396.6	2435.0	3955.4	6029.2	9609.1	13724.1	23052.9
-2.5°	232.6	294.6	413.2	758.2	1442.8	2542.6	4141.2	6374.6	10018.7	14401.1	24280.8
-5°	237.8	301.1	426.6	782.1	1464.9	2604.7	4256.1	6607.4	10200.9	14754.8	24742.4
-7.5°	241.3	305.8	435.3	788.2	1434.7	2526.9	4139.5	6454.4	9955.9	14652.8	24322.2
-10°	242.2	306.1	440.0	756.9	1340.7	2349.2	3905.7	6168.5	9512.3	14186.7	23078.0
-12.5°	235.3	301.5	436.8	719.4	1231.6	2133.2	3586.4	5743.2	8865.0	13316.8	20876.7
-15°	226.9	294.0	424.4	677.6	1110.2	1880.6	3178.1	5171.6	8022.1	12039.8	17625.4
-17.5°	217.1	283.3	401.5	633.0	978.9	1593.6	2680.8	4485.3	7137.2	10831.3	15888.9
-20°	205.8	269.4	367.2	587.2	853.2	1346.7	2297.0	3891.2	6257.4	9534.2	13884.6



REPORT NUMBER: P699943 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5L-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	193.1	251.9	334.2	545.7	762.0	1150.7	1903.6	3197.2	5183.6	7996.3	11850.5
-25°	181.4	236.4	313.6	466.9	662.7	939.3	1465.0	2456.7	4170.3	6709.5	10042.6
-27.5°	171.6	219.6	283.7	389.7	561.6	744.9	1157.3	1943.9	3275.8	5247.8	8082.8
-30°	161.5	200.4	252.3	325.1	472.0	631.7	899.4	1410.4	2394.2	4039.3	6319.8
-32.5°	150.8	181.7	227.3	289.1	389.9	518.6	670.7	1062.8	1772.3	2847.0	4601.8
-35°	141.3	169.2	205.8	251.8	315.8	426.2	551.7	753.7	1186.3	2018.6	3318.1
-37.5°	134.3	156.5	184.8	220.4	274.2	348.3	432.9	560.5	824.7	1290.1	2310.5
-40°	127.1	143.5	168.9	198.2	233.5	287.8	356.7	428.0	545.2	907.5	1440.5
-42.5°	119.4	135.4	154.5	177.0	206.4	245.7	289.9	344.4	420.3	586.9	954.3
-45°	109.0	127.3	140.9	161.0	183.2	210.6	247.6	283.5	338.7	415.9	594.6
-47.5°	98.1	118.1	132.2	144.9	163.3	184.9	210.1	244.3	281.2	330.4	379.6
-50°	87.0	105.7	122.9	133.3	146.0	162.2	182.0	207.6	238.7	272.1	312.2
-52.5°	76.4	92.8	109.6	123.2	132.4	143.8	158.8	178.1	201.5	226.4	256.4
-55°	65.5	80.4	95.3	109.8	121.5	129.6	139.8	154.5	169.5	190.5	210.9
-57.5°	57.5	68.1	81.5	94.7	107.3	118.1	125.8	134.1	146.7	160.1	174.2
-60°	51.2	58.2	68.0	80.0	91.6	102.4	112.1	119.8	127.3	135.1	146.4
-62.5°	44.9	51.2	57.5	65.4	76.1	85.9	95.0	103.3	111.0	117.6	124.1
-65°	38.9	44.2	49.8	55.4	60.8	69.6	78.0	85.6	92.7	99.3	105.4
-67.5°	32.7	37.4	42.2	47.1	52.0	56.6	61.3	68.5	75.0	80.7	86.1
-70°	29.4	31.0	34.6	38.8	43.0	46.9	50.9	54.9	58.8	62.9	67.8
-72.5°	26.6	28.0	29.4	30.7	34.1	37.7	41.0	43.9	47.0	50.2	53.2
-75°	24.1	25.1	26.1	27.2	28.4	29.9	31.7	34.5	37.0	39.3	41.5
-77.5°	21.8	22.5	23.2	23.9	24.4	25.2	26.2	27.3	28.6	29.9	31.2
-80°	19.6	20.0	20.4	20.9	21.2	21.4	21.6	21.7	21.8	22.2	22.9
-82.5°	17.7	17.9	18.1	18.3	18.3	18.2	18.1	18.1	18.2	18.3	18.3
-85°	14.9	15.8	15.9	15.9	15.9	15.8	15.7	15.6	15.4	15.2	15.1
-87.5°	7.4	7.9	8.4	8.8	9.2	9.5	9.8	10.1	10.2	10.2	10.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699943 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5L-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°	10.9	10.6	10.2	9.7	9.2	8.7	8.2	7.6	7.0	6.0	5.1
85°	15.3	14.7	14.0	13.4	12.7	12.1	11.4	10.7	10.0	9.8	9.6
82.5°	18.3	17.9	17.4	16.8	16.3	16.5	16.8	17.1	17.6	17.8	18.0
80°	22.5	22.7	23.0	23.4	23.8	24.9	26.0	27.1	28.1	28.6	29.0
77.5°	28.8	30.1	31.6	32.9	34.1	35.4	36.7	37.9	38.9	39.6	40.0
75°	38.6	40.4	42.0	43.6	45.1	46.6	48.1	49.4	50.6	51.4	52.1
72.5°	47.9	49.9	52.2	54.9	57.4	59.8	62.1	64.2	66.2	67.6	68.7
70°	59.8	62.8	66.1	69.2	72.1	74.8	77.7	80.3	82.8	84.6	85.8
67.5°	73.9	77.3	81.0	84.3	87.2	90.4	94.1	97.5	100.7	102.9	104.2
65°	88.6	91.7	95.6	99.4	103.3	108.6	114.1	119.2	123.7	127.2	129.3
62.5°	101.6	106.6	113.2	119.9	126.4	133.0	139.9	146.2	152.0	156.7	159.6
60°	119.7	126.6	135.6	144.7	153.1	160.7	170.9	180.2	188.4	195.4	200.9
57.5°	141.7	151.8	162.7	176.0	188.4	200.1	214.0	232.1	252.0	273.9	305.2
55°	168.9	184.5	198.0	214.9	233.1	251.7	274.9	314.4	358.8	406.5	486.6
52.5°	204.5	223.1	239.8	261.5	294.9	327.4	361.8	434.5	515.8	601.0	752.5
50°	245.3	269.3	301.1	334.0	386.8	443.5	497.8	597.6	713.0	829.7	1013.3
47.5°	299.1	335.3	390.7	448.0	515.7	592.7	668.8	778.5	902.5	1016.0	1171.4
45°	370.8	442.2	511.9	586.2	664.7	756.9	841.8	934.3	1047.3	1141.3	1250.3
42.5°	479.3	568.5	654.9	738.7	828.9	918.5	999.6	1084.9	1176.2	1261.8	1352.7
40°	606.5	704.7	794.3	885.1	957.9	1041.1	1118.7	1198.3	1300.6	1422.5	1531.8
37.5°	735.2	829.4	911.6	994.0	1061.9	1120.1	1250.6	1384.0	1510.5	1808.7	2075.5
35°	862.9	954.2	1017.0	1099.4	1197.8	1331.7	1544.3	1904.1	2225.6	2834.1	3441.3
32.5°	995.6	1094.1	1168.6	1292.8	1467.4	1903.1	2212.3	3121.8	3903.8	4205.4	4082.3
30°	1143.8	1273.7	1478.2	1718.4	2362.9	3393.1	4211.8	4584.5	4394.2	3902.2	3929.4
27.5°	1439.5	1622.8	2086.2	3286.2	4912.4	6668.2	7026.9	6079.0	6448.4	5302.6	6098.1
25°	1946.8	2291.3	4206.3	7452.4	10240.4	11373.5	12232.3	11598.5	12419.2	12453.6	13165.1
22.5°	2816.9	4993.7	8751.6	14019.9	17309.9	19069.7	20149.8	21338.4	22632.8	24559.7	25781.0
20°	4486.9	8559.5	16203.9	21809.9	25635.3	28089.5	30067.8	32681.6	35648.8	39272.2	42181.3
17.5°	8215.9	15545.1	24049.0	30102.2	34273.0	37819.8	40935.0	44538.0	49090.4	54799.2	60438.1
15°	12345.3	23167.4	31946.4	38121.7	42870.8	47021.0	51185.8	55535.2	61670.9	70753.8	84008.6
12.5°	18303.1	30490.9	39860.7	45888.7	51068.4	55119.2	59228.3	64902.2	74044.1	87804.7	140647.0
10°	24450.8	37467.0	46663.8	52628.3	57474.6	61441.4	65391.9	71299.8	88386.5	142424.1	247443.0
7.5°	30019.6	43943.1	52879.2	58630.2	62775.7	65871.0	70113.8	81283.5	119459.9	211421.2	396646.3
5°	35045.1	49928.0	58627.4	63622.1	66835.6	69364.0	73852.9	89382.7	152610.6	302279.4	524045.1
2.5°	38911.2	54868.6	63784.0	67871.9	70202.6	72353.6	76976.6	94061.6	167706.3	348777.6	581696.0
0°	41132.5	57960.7	67767.3	71316.5	73226.7	75105.2	79987.5	97766.2	169399.9	326380.8	560675.6
-2.5°	43005.1	60802.3	71282.1	74809.9	76459.3	77930.7	82459.7	99024.6	151959.9	264470.2	479459.4
-5°	43359.8	62095.7	73664.9	77988.1	79604.2	80802.8	84117.4	97369.2	132530.4	194900.2	345201.7
-7.5°	42161.9	61786.9	75176.8	80958.2	82864.9	84033.6	86446.8	94372.1	113371.3	145839.8	231466.2
-10°	39482.7	59777.3	75635.6	83625.5	86403.1	87681.5	89048.2	92141.5	101332.1	119831.3	145022.7
-12.5°	34952.6	55507.9	74777.3	85924.2	89588.5	91238.5	92616.7	94782.8	98481.6	104646.4	119789.0
-15°	29480.5	49380.2	69706.8	83770.1	91054.7	94321.5	96313.9	97337.8	99186.0	102887.9	108747.2
-17.5°	25306.2	41340.2	61391.3	79846.9	91063.8	95791.3	98375.8	100431.0	101748.9	104078.4	106408.6
-20°	20311.1	31885.4	51182.1	70297.6	85355.0	95008.2	98974.4	101539.0	103772.8	105337.6	107102.3



REPORT NUMBER: P699943 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5L-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	17043.1	25901.9	39405.3	58079.2	75643.9	88131.4	97055.7	100382.1	103190.6	104897.8	106461.1
-25°	14251.0	19767.7	29851.9	44507.2	61760.5	77129.0	88341.3	96728.7	100159.3	102550.7	104030.9
-27.5°	11714.9	16378.4	22315.5	32372.6	46353.2	61143.2	74413.0	86034.1	92524.5	98395.4	99932.9
-30°	9267.4	13183.6	17953.2	23499.9	32562.7	43284.1	56058.8	67570.8	77768.4	85783.0	90153.9
-32.5°	7223.4	10339.8	14215.9	18556.1	22860.5	30201.1	37207.5	47773.5	57214.8	65522.3	72537.4
-35°	5230.8	7838.9	10777.8	14278.1	17838.1	21721.1	26231.7	32256.2	37669.0	44564.1	51066.3
-37.5°	3679.3	5557.0	7898.5	10459.3	13453.5	16377.8	19503.6	22672.5	25634.0	29899.3	33524.9
-40°	2470.8	3706.1	5407.1	7287.7	9634.8	11898.2	14379.7	16669.5	18858.3	21139.6	23113.5
-42.5°	1494.5	2378.6	3383.0	4803.9	6373.1	8110.4	10043.1	11855.7	13434.3	14995.4	16418.5
-45°	891.8	1392.6	1997.2	2916.3	3850.0	5163.8	6471.0	7663.6	8975.1	10115.7	11063.2
-47.5°	551.3	750.9	1151.5	1616.6	2207.0	3040.5	3854.0	4632.9	5553.3	6374.7	7054.3
-50°	358.6	447.2	632.3	833.8	1210.3	1644.6	2076.7	2578.4	3145.6	3647.1	4047.9
-52.5°	284.5	325.5	368.7	440.6	622.7	819.9	1025.2	1324.1	1625.7	1901.3	2114.1
-55°	234.3	258.9	281.8	317.4	356.4	394.2	455.7	610.4	754.0	884.8	985.5
-57.5°	192.1	209.8	228.3	249.3	270.1	290.6	319.0	352.5	384.9	413.8	422.2
-60°	157.4	168.1	183.3	198.5	212.4	225.3	245.3	264.9	283.0	298.1	306.7
-62.5°	130.3	138.4	148.2	158.1	167.7	178.1	191.3	204.5	217.5	229.6	239.7
-65°	111.0	116.1	121.7	127.4	133.1	141.0	149.4	157.4	165.0	171.9	178.2
-67.5°	91.2	95.8	100.1	104.1	108.2	112.6	117.5	122.2	126.8	130.9	134.3
-70°	72.2	76.0	79.2	82.0	85.0	88.2	91.6	94.5	97.1	99.2	100.7
-72.5°	55.9	58.5	61.2	64.1	66.5	68.8	71.0	72.9	74.5	75.6	76.4
-75°	43.6	45.8	48.1	50.2	52.1	53.8	55.4	56.8	58.1	59.0	59.5
-77.5°	32.8	34.5	36.1	37.7	39.2	40.6	41.8	42.8	43.7	44.2	44.5
-80°	23.6	24.6	25.6	26.6	27.5	28.4	29.3	30.2	31.0	31.3	31.5
-82.5°	18.3	18.3	18.4	18.6	18.8	18.9	19.1	19.3	19.6	19.8	20.1
-85°	14.9	14.6	14.3	13.9	13.5	12.9	12.3	11.7	11.0	11.1	11.1
-87.5°	10.1	9.9	9.7	9.5	9.2	8.7	8.2	7.6	7.0	6.3	5.6
-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: P699943 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5L-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°	4.1	3.1	3.1	3.1	3.1	3.1	4.1	5.1	6.0	7.0	7.6
85°	9.4	9.2	9.2	9.2	9.2	9.2	9.4	9.6	9.8	10.0	10.7
82.5°	18.2	18.3	18.4	18.4	18.4	18.3	18.2	18.0	17.8	17.6	17.1
80°	29.3	29.5	29.7	29.7	29.7	29.5	29.3	29.0	28.6	28.1	27.1
77.5°	40.4	40.7	40.4	39.9	40.4	40.7	40.4	40.0	39.6	38.9	37.9
75°	52.6	52.9	53.6	54.2	53.6	52.9	52.6	52.1	51.4	50.6	49.4
72.5°	69.5	70.1	71.0	71.6	71.0	70.1	69.5	68.7	67.6	66.2	64.2
70°	86.8	87.4	87.9	88.0	87.9	87.4	86.8	85.8	84.6	82.8	80.3
67.5°	105.2	105.8	106.2	106.4	106.2	105.8	105.2	104.2	102.9	100.7	97.5
65°	130.9	132.0	132.7	133.0	132.7	132.0	130.9	129.3	127.2	123.7	119.2
62.5°	161.8	163.3	162.6	160.6	162.6	163.3	161.8	159.6	156.7	152.0	146.2
60°	205.5	209.2	210.3	209.7	210.3	209.2	205.5	200.9	195.4	188.4	180.2
57.5°	338.5	371.7	388.4	393.9	388.4	371.7	338.5	305.2	273.9	252.0	232.1
55°	573.6	661.8	718.0	749.9	718.0	661.8	573.6	486.6	406.5	358.8	314.4
52.5°	931.4	1115.1	1248.3	1335.2	1248.3	1115.1	931.4	752.5	601.0	515.8	434.5
50°	1234.6	1452.6	1595.9	1667.7	1595.9	1452.6	1234.6	1013.3	829.7	713.0	597.6
47.5°	1376.1	1573.3	1708.4	1777.2	1708.4	1573.3	1376.1	1171.4	1016.0	902.5	778.5
45°	1421.2	1581.6	1694.9	1749.5	1694.9	1581.6	1421.2	1250.3	1141.3	1047.3	934.3
42.5°	1472.1	1566.9	1623.0	1631.9	1623.0	1566.9	1472.1	1352.7	1261.8	1176.2	1084.9
40°	1655.6	1774.0	1865.9	1905.0	1865.9	1774.0	1655.6	1531.8	1422.5	1300.6	1198.3
37.5°	2316.0	2513.9	2646.8	2670.3	2646.8	2513.9	2316.0	2075.5	1808.7	1510.5	1384.0
35°	3952.4	4360.3	4651.8	4817.9	4651.8	4360.3	3952.4	3441.3	2834.1	2225.6	1904.1
32.5°	3937.6	3850.6	3799.6	3784.5	3799.6	3850.6	3937.6	4082.3	4205.4	3903.8	3121.8
30°	3604.4	3495.5	3361.5	3356.9	3361.5	3495.5	3604.4	3929.4	3902.2	4394.2	4584.5
27.5°	5911.2	5736.7	5290.9	5325.3	5290.9	5736.7	5911.2	6098.1	5302.6	6448.4	6079.0
25°	13774.5	13836.6	13477.0	12396.1	13477.0	13836.6	13774.5	13165.1	12453.6	12419.2	11598.5
22.5°	27351.7	28127.4	29279.8	29522.1	29279.8	28127.4	27351.7	25781.0	24559.7	22632.8	21338.4
20°	45553.3	47714.0	50672.4	51649.1	50672.4	47714.0	45553.3	42181.3	39272.2	35648.8	32681.6
17.5°	69179.2	76128.6	81986.4	81897.6	81986.4	76128.6	69179.2	60438.1	54799.2	49090.4	44538.0
15°	114107.8	143544.9	165936.3	174647.5	165936.3	143544.9	114107.8	84008.6	70753.8	61670.9	55535.2
12.5°	209754.6	295466.3	352463.7	389795.8	352463.7	295466.3	209754.6	140647.0	87804.7	74044.1	64902.2
10°	400414.0	532457.6	602157.6	638711.0	602157.6	532457.6	400414.0	247443.0	142424.1	88386.5	71299.8
7.5°	585156.9	683150.2	729890.7	741238.8	729890.7	683150.2	585156.9	396646.3	211421.2	119459.9	81283.5
5°	683448.4	744226.4	752874.0	754909.7	752874.0	744226.4	683448.4	524045.1	302279.4	152610.6	89382.7
2.5°	720636.0	746598.9	742221.5	739909.8	742221.5	746598.9	720636.0	581696.0	348777.6	167706.3	94061.6
0°	709816.3	742188.2	732315.1	729381.9	732315.1	742188.2	709816.3	560675.6	326380.8	169399.9	97766.2
-2.5°	653339.5	719428.0	723703.5	723201.7	723703.5	719428.0	653339.5	479459.4	264470.2	151959.9	99024.6
-5°	544193.2	649090.1	684091.3	693013.0	684091.3	649090.1	544193.2	345201.7	194900.2	132530.4	97369.2
-7.5°	380727.5	507404.9	570235.9	589725.6	570235.9	507404.9	380727.5	231466.2	145839.8	113371.3	94372.1
-10°	211442.8	312810.5	382426.6	409352.1	382426.6	312810.5	211442.8	145022.7	119831.3	101332.1	92141.5
-12.5°	137023.4	166431.9	194160.8	204360.5	194160.8	166431.9	137023.4	119789.0	104646.4	98481.6	94782.8
-15°	118292.5	127311.7	132886.7	134713.1	132886.7	127311.7	118292.5	108747.2	102887.9	99186.0	97337.8
-17.5°	110786.5	114088.7	116456.3	118586.7	116456.3	114088.7	110786.5	106408.6	104078.4	101748.9	100431.0
-20°	108907.8	110902.0	111849.0	112741.6	111849.0	110902.0	108907.8	107102.3	105337.6	103772.8	101539.0



REPORT NUMBER: P699943 (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°	107572.1	108757.1	109619.0	110571.6	109619.0	108757.1	107572.1	106461.1	104897.8	103190.6	100382.1
-25°	105058.4	105986.4	106689.9	107519.6	106689.9	105986.4	105058.4	104030.9	102550.7	100159.3	96728.7
-27.5°	101121.2	102021.1	102536.1	103218.4	102536.1	102021.1	101121.2	99932.9	98395.4	92524.5	86034.1
-30°	93450.0	95731.0	97057.7	98447.6	97057.7	95731.0	93450.0	90153.9	85783.0	77768.4	67570.8
-32.5°	77850.4	81389.8	83528.2	84688.7	83528.2	81389.8	77850.4	72537.4	65522.3	57214.8	47773.5
-35°	56024.2	59238.9	61229.9	63094.8	61229.9	59238.9	56024.2	51066.3	44564.1	37669.0	32256.2
-37.5°	36314.3	38220.0	39425.9	40271.0	39425.9	38220.0	36314.3	33524.9	29899.3	25634.0	22672.5
-40°	24868.7	26249.1	27126.2	27333.7	27126.2	26249.1	24868.7	23113.5	21139.6	18858.3	16669.5
-42.5°	17840.2	19042.2	19842.9	20079.7	19842.9	19042.2	17840.2	16418.5	14995.4	13434.3	11855.7
-45°	11911.8	12610.6	13030.5	13095.9	13030.5	12610.6	11911.8	11063.2	10115.7	8975.1	7663.6
-47.5°	7571.5	7957.0	8210.8	8330.2	8210.8	7957.0	7571.5	7054.3	6374.7	5553.3	4632.9
-50°	4358.8	4593.8	4759.4	4851.6	4759.4	4593.8	4358.8	4047.9	3647.1	3145.6	2578.4
-52.5°	2276.8	2396.1	2475.9	2515.9	2475.9	2396.1	2276.8	2114.1	1901.3	1625.7	1324.1
-55°	1071.0	1139.5	1174.1	1177.6	1174.1	1139.5	1071.0	985.5	884.8	754.0	610.4
-57.5°	424.7	422.1	420.7	418.5	420.7	422.1	424.7	422.2	413.8	384.9	352.5
-60°	312.6	316.3	320.2	323.3	320.2	316.3	312.6	306.7	298.1	283.0	264.9
-62.5°	248.5	256.0	259.6	260.9	259.6	256.0	248.5	239.7	229.6	217.5	204.5
-65°	183.9	188.8	190.8	191.3	190.8	188.8	183.9	178.2	171.9	165.0	157.4
-67.5°	137.3	139.7	140.9	141.2	140.9	139.7	137.3	134.3	130.9	126.8	122.2
-70°	101.8	102.5	103.1	103.3	103.1	102.5	101.8	100.7	99.2	97.1	94.5
-72.5°	77.0	77.3	77.7	77.8	77.7	77.3	77.0	76.4	75.6	74.5	72.9
-75°	59.9	60.1	60.3	60.4	60.3	60.1	59.9	59.5	59.0	58.1	56.8
-77.5°	44.7	44.8	44.9	45.0	44.9	44.8	44.7	44.5	44.2	43.7	42.8
-80°	31.6	31.5	31.7	31.7	31.7	31.5	31.6	31.5	31.3	31.0	30.2
-82.5°	20.3	20.4	20.5	20.5	20.5	20.4	20.3	20.1	19.8	19.6	19.3
-85°	11.2	11.2	11.3	11.3	11.3	11.2	11.2	11.1	11.1	11.0	11.7
-87.5°	4.8	4.1	4.1	4.1	4.1	4.1	4.8	5.6	6.3	7.0	7.6
-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°	8.2	8.7	9.2	9.7	10.2	10.6	10.9	11.0	11.0	10.9	10.8
85°	11.4	12.1	12.7	13.4	14.0	14.7	15.3	15.6	16.0	16.3	16.6
82.5°	16.8	16.5	16.3	16.8	17.4	17.9	18.3	18.5	18.7	18.8	18.9
80°	26.0	24.9	23.8	23.4	23.0	22.7	22.5	22.3	22.0	21.9	21.9
77.5°	36.7	35.4	34.1	32.9	31.6	30.1	28.8	27.9	27.5	27.0	26.4
75°	48.1	46.6	45.1	43.6	42.0	40.4	38.6	36.9	35.2	33.6	32.1
72.5°	62.1	59.8	57.4	54.9	52.2	49.9	47.9	46.0	43.8	41.4	39.1
70°	77.7	74.8	72.1	69.2	66.1	62.8	59.8	56.7	53.2	50.2	47.4
67.5°	94.1	90.4	87.2	84.3	81.0	77.3	73.9	70.3	66.5	62.4	57.6
65°	114.1	108.6	103.3	99.4	95.6	91.7	88.6	84.9	80.6	75.7	70.3
62.5°	139.9	133.0	126.4	119.9	113.2	106.6	101.6	97.7	93.8	89.4	83.4
60°	170.9	160.7	153.1	144.7	135.6	126.6	119.7	112.6	105.3	100.4	95.2
57.5°	214.0	200.1	188.4	176.0	162.7	151.8	141.7	131.2	122.3	113.8	105.3
55°	274.9	251.7	233.1	214.9	198.0	184.5	168.9	154.1	142.3	130.1	120.3
52.5°	361.8	327.4	294.9	261.5	239.8	223.1	204.5	186.3	166.7	152.1	137.7
50°	497.8	443.5	386.8	334.0	301.1	269.3	245.3	223.4	200.1	178.6	159.3
47.5°	668.8	592.7	515.7	448.0	390.7	335.3	299.1	263.4	237.4	208.9	185.5
45°	841.8	756.9	664.7	586.2	511.9	442.2	370.8	320.7	279.8	246.5	212.7
42.5°	999.6	918.5	828.9	738.7	654.9	568.5	479.3	399.8	334.1	288.7	251.4
40°	1118.7	1041.1	957.9	885.1	794.3	704.7	606.5	500.5	412.6	338.7	293.7
37.5°	1250.6	1120.1	1061.9	994.0	911.6	829.4	735.2	623.6	505.0	416.3	345.1
35°	1544.3	1331.7	1197.8	1099.4	1017.0	954.2	862.9	746.6	628.7	516.9	411.3
32.5°	2212.3	1903.1	1467.4	1292.8	1168.6	1094.1	995.6	873.8	784.1	652.7	511.3
30°	4211.8	3393.1	2362.9	1718.4	1478.2	1273.7	1143.8	1084.1	975.1	813.6	626.4
27.5°	7026.9	6668.2	4912.4	3286.2	2086.2	1622.8	1439.5	1346.9	1201.3	1007.5	788.9
25°	12232.3	11373.5	10240.4	7452.4	4206.3	2291.3	1946.8	1701.0	1482.4	1236.6	996.8
22.5°	20149.8	19069.7	17309.9	14019.9	8751.6	4993.7	2816.9	2126.8	1835.1	1581.6	1263.3
20°	30067.8	28089.5	25635.3	21809.9	16203.9	8559.5	4486.9	3036.8	2480.0	2012.1	1570.6
17.5°	40935.0	37819.8	34273.0	30102.2	24049.0	15545.1	8215.9	4523.5	3305.9	2501.8	1908.5
15°	51185.8	47021.0	42870.8	38121.7	31946.4	23167.4	12345.3	6288.9	4396.8	3154.6	2347.9
12.5°	59228.3	55119.2	51068.4	45888.7	39860.7	30490.9	18303.1	9792.2	5909.1	4135.7	2938.9
10°	65391.9	61441.4	57474.6	52628.3	46663.8	37467.0	24450.8	13136.7	7646.5	5292.2	3576.9
7.5°	70113.8	65871.0	62775.7	58630.2	52879.2	43943.1	30019.6	16113.1	9334.6	6506.3	4236.9
5°	73852.9	69364.0	66835.6	63622.1	58627.4	49928.0	35045.1	18690.9	10938.2	7722.8	4891.7
2.5°	76976.6	72353.6	70202.6	67871.9	63784.0	54868.6	38911.2	21018.5	12409.9	8743.0	5494.1
0°	79987.5	75105.2	73226.7	71316.5	67767.3	57960.7	41132.5	23052.9	13724.1	9609.1	6029.2
-2.5°	82459.7	77930.7	76459.3	74809.9	71282.1	60802.3	43005.1	24280.8	14401.1	10018.7	6374.6
-5°	84117.4	80802.8	79604.2	77988.1	73664.9	62095.7	43359.8	24742.4	14754.8	10200.9	6607.4
-7.5°	86446.8	84033.6	82864.9	80958.2	75176.8	61786.9	42161.9	24322.2	14652.8	9955.9	6454.4
-10°	89048.2	87681.5	86403.1	83625.5	75635.6	59777.3	39482.7	23078.0	14186.7	9512.3	6168.5
-12.5°	92616.7	91238.5	89588.5	85924.2	74777.3	55507.9	34952.6	20876.7	13316.8	8865.0	5743.2
-15°	96313.9	94321.5	91054.7	83770.1	69706.8	49380.2	29480.5	17625.4	12039.8	8022.1	5171.6
-17.5°	98375.8	95791.3	91063.8	79846.9	61391.3	41340.2	25306.2	15888.9	10831.3	7137.2	4485.3
-20°	98974.4	95008.2	85355.0	70297.6	51182.1	31885.4	20311.1	13884.6	9534.2	6257.4	3891.2



REPORT NUMBER: P699943 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5L-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	97055.7	88131.4	75643.9	58079.2	39405.3	25901.9	17043.1	11850.5	7996.3	5183.6	3197.2
-25°	88341.3	77129.0	61760.5	44507.2	29851.9	19767.7	14251.0	10042.6	6709.5	4170.3	2456.7
-27.5°	74413.0	61143.2	46353.2	32372.6	22315.5	16378.4	11714.9	8082.8	5247.8	3275.8	1943.9
-30°	56058.8	43284.1	32562.7	23499.9	17953.2	13183.6	9267.4	6319.8	4039.3	2394.2	1410.4
-32.5°	37207.5	30201.1	22860.5	18556.1	14215.9	10339.8	7223.4	4601.8	2847.0	1772.3	1062.8
-35°	26231.7	21721.1	17838.1	14278.1	10777.8	7838.9	5230.8	3318.1	2018.6	1186.3	753.7
-37.5°	19503.6	16377.8	13453.5	10459.3	7898.5	5557.0	3679.3	2310.5	1290.1	824.7	560.5
-40°	14379.7	11898.2	9634.8	7287.7	5407.1	3706.1	2470.8	1440.5	907.5	545.2	428.0
-42.5°	10043.1	8110.4	6373.1	4803.9	3383.0	2378.6	1494.5	954.3	586.9	420.3	344.4
-45°	6471.0	5163.8	3850.0	2916.3	1997.2	1392.6	891.8	594.6	415.9	338.7	283.5
-47.5°	3854.0	3040.5	2207.0	1616.6	1151.5	750.9	551.3	379.6	330.4	281.2	244.3
-50°	2076.7	1644.6	1210.3	833.8	632.3	447.2	358.6	312.2	272.1	238.7	207.6
-52.5°	1025.2	819.9	622.7	440.6	368.7	325.5	284.5	256.4	226.4	201.5	178.1
-55°	455.7	394.2	356.4	317.4	281.8	258.9	234.3	210.9	190.5	169.5	154.5
-57.5°	319.0	290.6	270.1	249.3	228.3	209.8	192.1	174.2	160.1	146.7	134.1
-60°	245.3	225.3	212.4	198.5	183.3	168.1	157.4	146.4	135.1	127.3	119.8
-62.5°	191.3	178.1	167.7	158.1	148.2	138.4	130.3	124.1	117.6	111.0	103.3
-65°	149.4	141.0	133.1	127.4	121.7	116.1	111.0	105.4	99.3	92.7	85.6
-67.5°	117.5	112.6	108.2	104.1	100.1	95.8	91.2	86.1	80.7	75.0	68.5
-70°	91.6	88.2	85.0	82.0	79.2	76.0	72.2	67.8	62.9	58.8	54.9
-72.5°	71.0	68.8	66.5	64.1	61.2	58.5	55.9	53.2	50.2	47.0	43.9
-75°	55.4	53.8	52.1	50.2	48.1	45.8	43.6	41.5	39.3	37.0	34.5
-77.5°	41.8	40.6	39.2	37.7	36.1	34.5	32.8	31.2	29.9	28.6	27.3
-80°	29.3	28.4	27.5	26.6	25.6	24.6	23.6	22.9	22.2	21.8	21.7
-82.5°	19.1	18.9	18.8	18.6	18.4	18.3	18.3	18.3	18.3	18.2	18.1
-85°	12.3	12.9	13.5	13.9	14.3	14.6	14.9	15.1	15.2	15.4	15.6
-87.5°	8.2	8.7	9.2	9.5	9.7	9.9	10.1	10.2	10.2	10.2	10.1
-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: P699943 (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°
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°	10.5	10.2	9.8	9.4	8.9	8.4	7.9	7.4	6.8	6.1	5.5
85°	16.8	16.9	17.0	17.0	17.0	16.9	15.8	14.7	13.5	12.2	10.9
82.5°	19.1	19.2	19.3	19.4	19.2	19.0	18.7	18.5	18.3	18.0	16.3
80°	22.1	22.2	22.2	22.0	21.5	21.0	20.6	20.2	19.8	19.4	19.0
77.5°	26.0	25.6	25.2	24.9	24.2	23.5	22.8	22.1	21.4	20.8	20.2
75°	30.7	29.8	29.0	28.2	27.1	26.1	25.1	24.2	23.2	22.2	21.4
72.5°	37.2	35.3	33.5	31.7	30.4	29.0	27.6	26.3	25.1	23.9	22.7
70°	44.6	41.6	39.0	36.6	34.2	32.0	30.4	28.7	27.0	25.6	24.2
67.5°	52.6	49.2	45.6	41.8	38.7	35.9	33.2	31.2	29.3	27.3	25.7
65°	64.8	58.8	52.7	48.4	44.0	39.9	36.8	33.8	31.5	29.3	27.1
62.5°	77.0	70.5	63.6	56.1	50.1	45.1	40.3	36.9	33.8	31.2	28.7
60°	89.4	82.1	74.8	66.9	58.2	50.6	45.1	40.0	36.4	33.1	30.4
57.5°	99.4	93.3	85.8	77.6	68.5	58.4	50.2	44.1	39.0	35.3	32.1
55°	109.9	102.3	95.9	87.9	78.5	68.1	56.6	48.7	41.8	37.4	33.7
52.5°	124.7	113.1	104.1	97.1	88.1	77.5	65.3	53.2	45.9	39.5	35.5
50°	142.5	127.0	114.2	104.4	97.0	86.2	73.6	60.4	50.0	42.0	37.3
47.5°	163.4	144.1	127.1	112.8	103.5	94.8	81.7	67.7	53.9	45.5	39.0
45°	188.9	163.6	142.0	124.6	110.0	101.6	89.7	74.7	60.1	49.0	40.8
42.5°	216.9	187.8	160.0	136.2	120.4	107.8	97.6	81.9	66.1	52.6	43.2
40°	254.0	215.5	180.0	153.1	131.1	114.1	103.5	89.0	71.8	56.6	46.2
37.5°	292.3	248.2	206.6	170.4	143.0	123.7	109.1	96.0	77.8	61.7	49.1
35°	340.4	284.2	234.0	192.1	159.0	132.9	114.7	102.1	84.1	66.6	51.9
32.5°	389.5	323.2	266.5	216.8	174.9	141.9	121.7	107.0	90.0	71.3	54.6
30°	475.8	369.6	298.7	240.8	192.5	155.5	129.5	111.8	95.6	75.7	57.5
27.5°	589.4	417.2	332.5	267.8	213.4	169.3	137.0	116.5	100.9	80.1	61.1
25°	732.1	509.9	375.1	295.1	233.5	182.1	144.1	121.1	105.1	84.4	64.5
22.5°	927.2	627.3	417.7	321.2	251.2	194.0	152.8	127.0	108.8	88.4	67.6
20°	1137.8	752.6	461.7	347.4	270.1	208.6	162.6	132.5	112.2	92.0	70.5
17.5°	1368.4	917.9	567.5	386.4	289.2	222.0	171.5	137.6	115.4	95.3	73.1
15°	1696.7	1130.1	688.6	428.2	306.7	234.0	179.3	142.3	118.4	98.2	75.4
12.5°	2065.4	1349.1	811.8	471.4	322.5	244.6	186.2	146.5	121.1	101.1	77.4
10°	2452.6	1568.7	933.6	514.6	336.4	253.7	192.0	151.1	124.4	103.8	79.1
7.5°	2843.8	1782.1	1050.1	556.1	349.5	263.1	201.3	157.2	127.6	106.3	80.5
5°	3230.1	2001.7	1173.8	614.2	367.1	272.7	210.6	163.0	130.4	108.4	81.6
2.5°	3615.7	2232.3	1294.2	671.6	382.7	280.4	218.9	168.2	133.0	110.2	82.4
0°	3955.4	2435.0	1396.6	722.3	395.9	286.5	226.1	172.9	135.1	111.5	82.9
-2.5°	4141.2	2542.6	1442.8	758.2	413.2	294.6	232.6	176.5	136.3	111.8	83.1
-5°	4256.1	2604.7	1464.9	782.1	426.6	301.1	237.8	179.3	137.1	111.7	82.9
-7.5°	4139.5	2526.9	1434.7	788.2	435.3	305.8	241.3	180.9	137.4	111.1	82.4
-10°	3905.7	2349.2	1340.7	756.9	440.0	306.1	242.2	181.3	137.1	110.0	81.5
-12.5°	3586.4	2133.2	1231.6	719.4	436.8	301.5	235.3	177.8	136.0	108.5	80.3
-15°	3178.1	1880.6	1110.2	677.6	424.4	294.0	226.9	172.3	133.6	106.4	78.8
-17.5°	2680.8	1593.6	978.9	633.0	401.5	283.3	217.1	166.0	130.8	103.8	76.9
-20°	2297.0	1346.7	853.2	587.2	367.2	269.4	205.8	159.2	127.6	100.7	74.6



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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°	1903.6	1150.7	762.0	545.7	334.2	251.9	193.1	151.7	124.1	97.1	71.9
-25°	1465.0	939.3	662.7	466.9	313.6	236.4	181.4	143.9	120.2	93.1	68.9
-27.5°	1157.3	744.9	561.6	389.7	283.7	219.6	171.6	138.8	115.7	88.7	65.5
-30°	899.4	631.7	472.0	325.1	252.3	200.4	161.5	133.5	110.2	84.2	61.8
-32.5°	670.7	518.6	389.9	289.1	227.3	181.7	150.8	128.0	104.2	79.6	59.0
-35°	551.7	426.2	315.8	251.8	205.8	169.2	141.3	122.2	97.7	74.6	56.4
-37.5°	432.9	348.3	274.2	220.4	184.8	156.5	134.3	114.8	90.8	69.1	53.6
-40°	356.7	287.8	233.5	198.2	168.9	143.5	127.1	106.3	84.0	63.3	50.7
-42.5°	289.9	245.7	206.4	177.0	154.5	135.4	119.4	97.4	76.8	58.9	47.6
-45°	247.6	210.6	183.2	161.0	140.9	127.3	109.0	88.1	69.2	55.2	44.7
-47.5°	210.1	184.9	163.3	144.9	132.2	118.1	98.1	79.2	61.3	51.3	42.1
-50°	182.0	162.2	146.0	133.3	122.9	105.7	87.0	70.0	56.7	47.2	39.4
-52.5°	158.8	143.8	132.4	123.2	109.6	92.8	76.4	60.8	52.0	43.6	36.5
-55°	139.8	129.6	121.5	109.8	95.3	80.4	65.5	55.4	47.1	40.0	33.7
-57.5°	125.8	118.1	107.3	94.7	81.5	68.1	57.5	49.8	42.7	36.3	32.1
-60°	112.1	102.4	91.6	80.0	68.0	58.2	51.2	44.4	38.2	32.9	30.4
-62.5°	95.0	85.9	76.1	65.4	57.5	51.2	44.9	39.1	33.7	30.9	28.7
-65°	78.0	69.6	60.8	55.4	49.8	44.2	38.9	33.7	30.9	28.9	26.9
-67.5°	61.3	56.6	52.0	47.1	42.2	37.4	32.7	30.4	28.7	26.9	25.2
-70°	50.9	46.9	43.0	38.8	34.6	31.0	29.4	27.9	26.4	25.0	23.5
-72.5°	41.0	37.7	34.1	30.7	29.4	28.0	26.6	25.4	24.3	23.1	21.8
-75°	31.7	29.9	28.4	27.2	26.1	25.1	24.1	23.2	22.3	21.2	20.4
-77.5°	26.2	25.2	24.4	23.9	23.2	22.5	21.8	21.1	20.4	19.8	19.2
-80°	21.6	21.4	21.2	20.9	20.4	20.0	19.6	19.2	18.8	18.4	18.0
-82.5°	18.1	18.2	18.3	18.3	18.1	17.9	17.7	17.5	17.3	17.0	15.4
-85°	15.7	15.8	15.9	15.9	15.9	15.8	14.9	13.9	12.7	11.6	10.3
-87.5°	9.8	9.5	9.2	8.8	8.4	7.9	7.4	6.9	6.4	5.8	5.2
-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°	4.8	4.0	3.2	2.4	1.6	0.8	0.0
85°	9.5	8.0	6.4	4.8	3.2	1.6	0.0
82.5°	14.2	11.9	9.6	7.2	4.8	2.4	0.0
80°	18.5	15.9	12.7	9.6	6.4	3.2	0.0
77.5°	19.6	18.7	15.9	11.9	8.0	4.0	0.0
75°	20.6	19.6	18.5	14.2	9.5	4.8	0.0
72.5°	21.6	20.4	19.2	16.6	11.1	5.5	0.0
70°	22.7	21.3	19.9	18.5	12.6	6.3	0.0
67.5°	23.9	22.1	20.5	19.0	14.1	7.0	0.0
65°	25.1	23.0	21.2	19.5	15.5	7.8	0.0
62.5°	26.3	24.0	21.8	20.0	17.0	8.5	0.0
60°	27.5	25.0	22.5	20.4	18.4	9.2	0.0
57.5°	28.9	25.9	23.2	20.9	18.7	9.9	0.0
55°	30.3	26.8	24.0	21.3	19.0	10.6	0.0
52.5°	31.7	27.8	24.7	21.8	19.3	11.2	0.0
50°	33.0	28.9	25.4	22.2	19.6	11.8	0.0
47.5°	34.4	30.1	26.0	22.6	19.8	12.4	0.0
45°	35.9	31.2	26.7	23.1	20.1	13.0	0.0
42.5°	37.3	32.2	27.3	23.6	20.3	13.6	0.0
40°	38.7	33.2	28.0	24.0	20.6	14.1	0.0
37.5°	40.1	34.2	28.8	24.4	20.8	14.6	0.0
35°	41.4	35.3	29.5	24.8	21.0	15.1	0.0
32.5°	43.0	36.3	30.2	25.2	21.2	15.5	0.0
30°	45.1	37.3	30.9	25.5	21.4	15.9	0.0
27.5°	47.2	38.2	31.5	25.9	21.6	16.3	0.0
25°	49.1	39.0	32.1	26.2	21.7	16.7	0.0
22.5°	50.9	39.9	32.6	26.4	21.9	17.0	0.0
20°	52.6	40.6	33.0	26.7	22.0	17.3	0.0
17.5°	54.0	41.3	33.5	26.9	22.1	17.5	0.0
15°	55.3	41.9	33.8	27.1	22.2	17.8	0.0
12.5°	56.4	42.4	34.1	27.2	22.3	18.0	0.0
10°	57.3	42.9	34.4	27.4	22.4	18.1	0.0
7.5°	58.1	43.3	34.6	27.5	22.4	18.2	0.0
5°	58.7	43.6	34.7	27.5	22.5	18.3	0.0
2.5°	59.1	43.8	34.8	27.6	22.5	18.4	0.0
0°	59.3	44.0	34.8	27.6	22.5	18.4	0.0
-2.5°	59.4	44.1	34.8	27.6	22.5	18.4	0.0
-5°	59.2	44.0	34.7	27.5	22.5	18.3	0.0
-7.5°	58.9	43.9	34.6	27.5	22.4	18.2	0.0
-10°	58.5	43.7	34.4	27.4	22.4	18.1	0.0
-12.5°	57.8	43.4	34.1	27.2	22.3	18.0	0.0
-15°	57.0	43.0	33.8	27.1	22.2	17.8	0.0
-17.5°	55.9	42.4	33.5	26.9	22.1	17.5	0.0
-20°	54.7	41.8	33.0	26.7	22.0	17.3	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	53.3	41.0	32.6	26.4	21.9	17.0	0.0
-25°	51.7	40.2	32.1	26.2	21.7	16.7	0.0
-27.5°	50.0	39.1	31.5	25.9	21.6	16.3	0.0
-30°	48.1	38.0	30.9	25.5	21.4	15.9	0.0
-32.5°	46.0	36.8	30.2	25.2	21.2	15.5	0.0
-35°	44.2	35.5	29.5	24.8	21.0	15.1	0.0
-37.5°	42.5	34.2	28.8	24.4	20.8	14.6	0.0
-40°	40.7	33.2	28.0	24.0	20.6	14.1	0.0
-42.5°	38.8	32.2	27.3	23.6	20.3	13.6	0.0
-45°	36.7	31.2	26.7	23.1	20.1	13.0	0.0
-47.5°	34.5	30.1	26.0	22.6	19.8	12.4	0.0
-50°	33.0	28.9	25.3	22.1	19.6	11.8	0.0
-52.5°	31.7	27.8	24.5	21.7	19.3	11.2	0.0
-55°	30.3	26.8	23.7	21.2	19.0	10.6	0.0
-57.5°	28.9	25.7	22.9	20.8	18.7	9.9	0.0
-60°	27.4	24.7	22.1	20.3	18.4	9.2	0.0
-62.5°	26.1	23.6	21.5	19.8	17.0	8.5	0.0
-65°	24.7	22.4	20.8	19.3	15.5	7.8	0.0
-67.5°	23.2	21.4	20.1	18.8	14.1	7.0	0.0
-70°	21.8	20.6	19.4	18.3	12.6	6.3	0.0
-72.5°	20.7	19.7	18.8	16.4	11.1	5.5	0.0
-75°	19.6	18.9	18.1	14.1	9.5	4.8	0.0
-77.5°	18.6	18.0	15.4	11.8	8.0	4.0	0.0
-80°	17.5	15.2	12.4	9.4	6.4	3.2	0.0
-82.5°	13.5	11.4	9.3	7.1	4.8	2.4	0.0
-85°	9.0	7.6	6.2	4.7	3.2	1.6	0.0
-87.5°	4.5	3.8	3.1	2.4	1.6	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)