

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: P699944 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/10/2023

**Test Information**

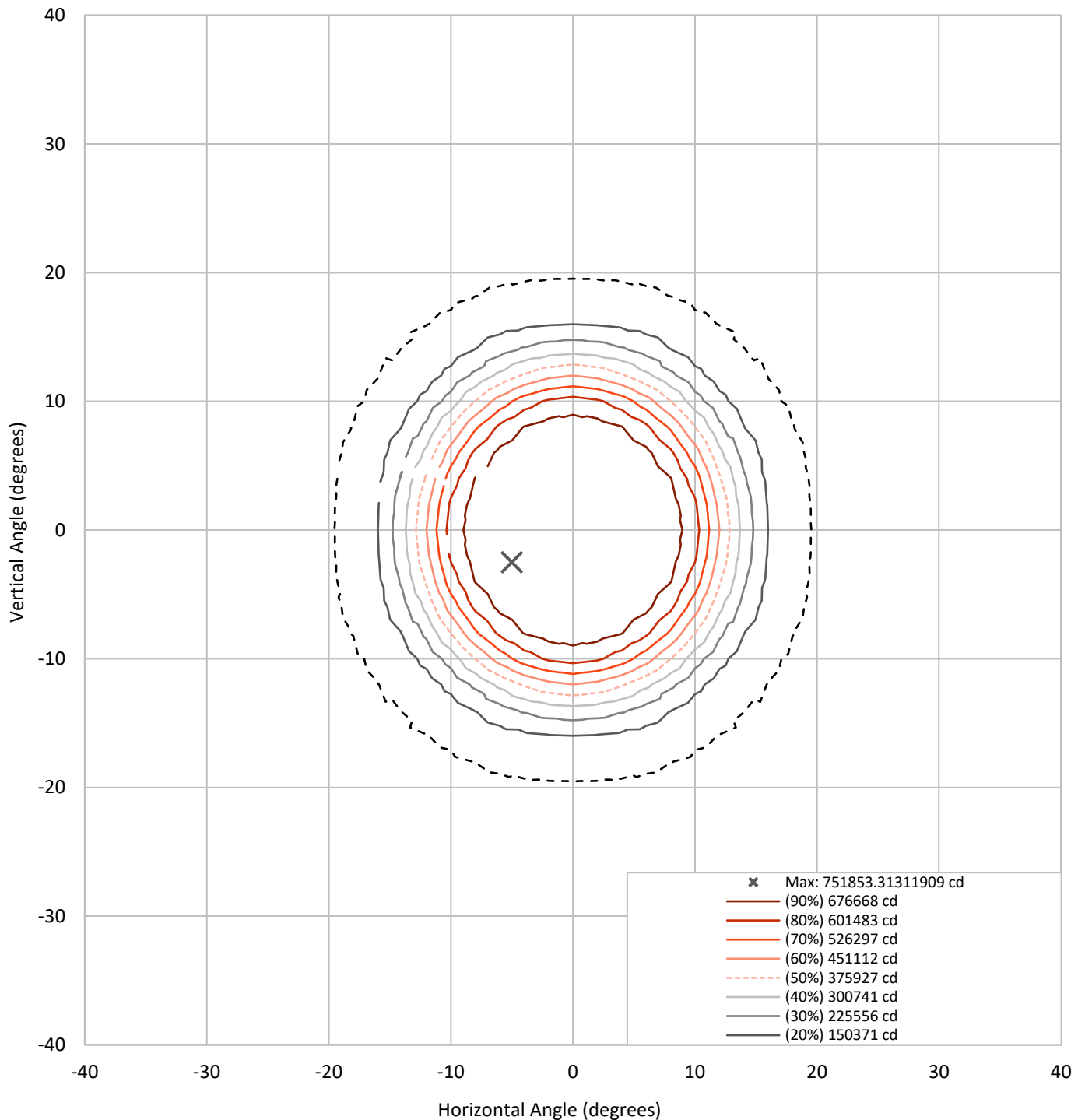
Test Method: LM-79-08  
Report Number: P699944 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-51)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-LS-16-1200R-40-70-5R-S  
Description: EPHEBUS LUMASPORT 16 LUMINAIRE  
(16) 4000K, 70 CRI LEDS AND 5R BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	180839.6 lumens	Max Intensity:	751853.3 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	140.4 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	25.1°H x 23.6°V	Field Angle (10%):	38.9°H x 38.4°V
Beam Lumens:	96270.3 lumens	Field Lumens:	134081.6 lumens
Beam Efficiency:	53.2%	Field Efficiency:	74.1%
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





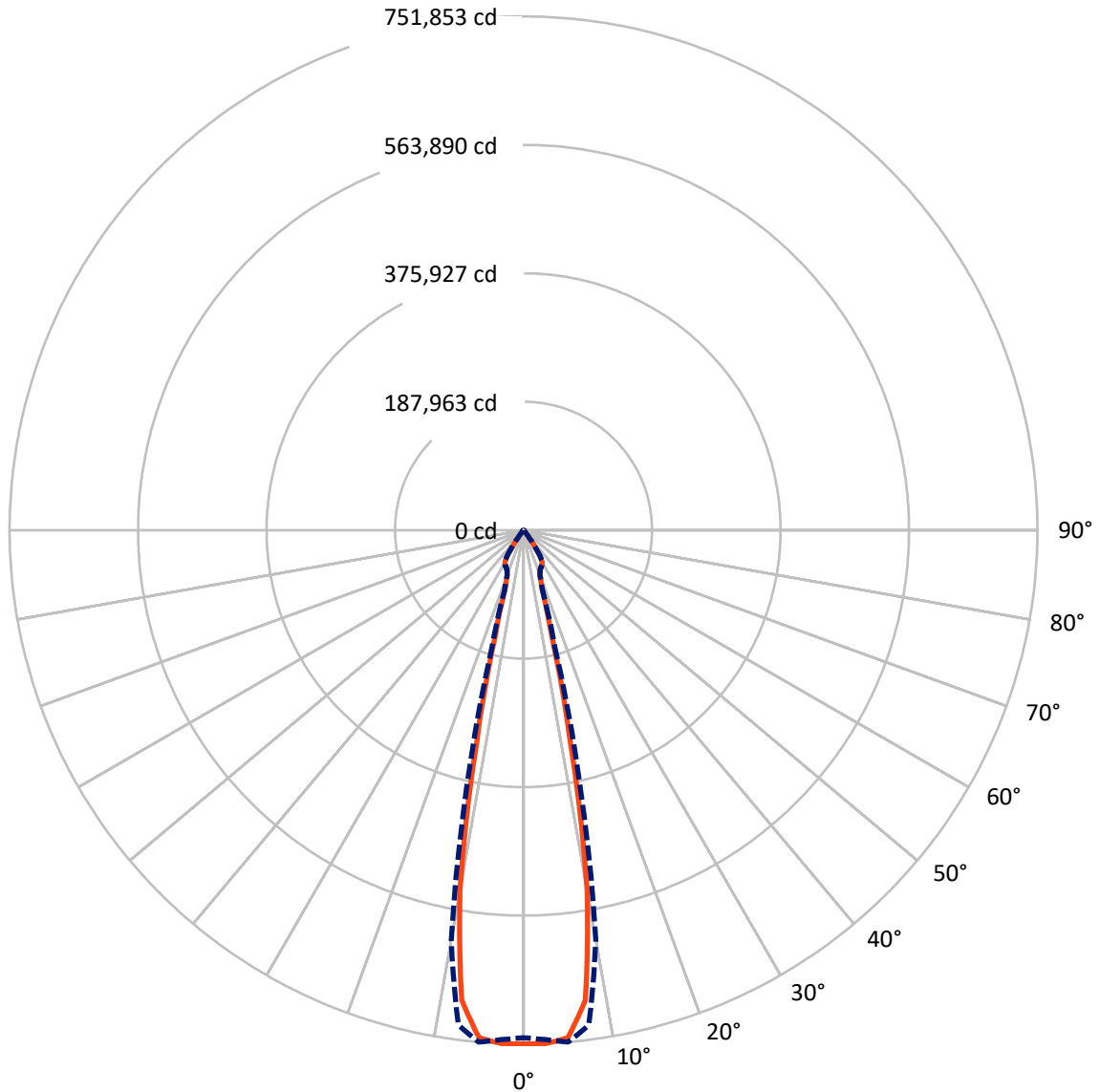
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### Lumen Table

90	0.1	0.9		2.4		4.0		4.7		4.0		2.4		0.9		0.1			
80	0.1	0.9		2.4		4.0		4.7		4.0		2.4		0.9		0.1			
70	0.4	0.5	1.0	1.8	2.6	3.4	4.1	4.5	4.5	4.1	3.4	2.6	1.8	1.0	0.5	0.4			
60		0.7	1.7	2.9	4.8	8.0	12.2	15.0	15.0	12.2	8.0	4.8	2.9	1.7	0.7				
50	0.8	1.1	2.4	5.2	13.2	23.8	32.8	41.4	41.4	32.8	23.8	13.2	5.2	2.4	1.1	0.8			
40		1.4	3.4	11.5	25.6	95.5	452.6	815.4	815.4	452.6	95.5	25.6	11.5	3.4	1.4				
30	1.1	1.6	5.2	18.7	87.3	816.9	1589.0	1829.8	1829.8	1589.0	816.9	87.3	18.7	5.2	1.6	1.1			
20		1.8	7.5	24.2	391.8	1493.1	2278.4	6199.6	6199.6	2278.4	1493.1	391.8	24.2	7.5	1.8				
10	1.2	1.9	8.9	29.9	684.0	1666.8	6050.9	20422.0	20422.0	6050.9	1666.8	684.0	29.9	8.9	1.9	1.2			
0		1.9	8.9	29.9	684.0	1666.8	6050.9	20422.0	20422.0	6050.9	1666.8	684.0	29.9	8.9	1.9				
-10	1.1	1.8	7.5	24.2	391.8	1493.1	2278.4	6199.6	6199.6	2278.4	1493.1	391.8	24.2	7.5	1.8	1.1			
-20		1.6	5.2	18.7	87.3	816.9	1589.0	1829.8	1829.8	1589.0	816.9	87.3	18.7	5.2	1.6				
-30	0.8	1.4	3.4	11.5	25.6	95.5	452.6	815.4	815.4	452.6	95.5	25.6	11.5	3.4	1.4	0.8			
-40		1.1	2.4	5.2	13.2	23.8	32.8	41.4	41.4	32.8	23.8	13.2	5.2	2.4	1.1				
-50	0.4	0.7	1.7	2.9	4.8	8.0	12.2	15.0	15.0	12.2	8.0	4.8	2.9	1.7	0.7	0.4			
-60		0.5	1.0	1.8	2.6	3.4	4.1	4.5	4.5	4.1	3.4	2.6	1.8	1.0	0.5				
-70	0.1	0.9		2.4		4.0		4.7		4.0		2.4		0.9		0.1			
-80		0.9		2.4		4.0		4.7		4.0		2.4		0.9					
-90	0.1	0.9		2.4		4.0		4.7		4.0		2.4		0.9		0.1			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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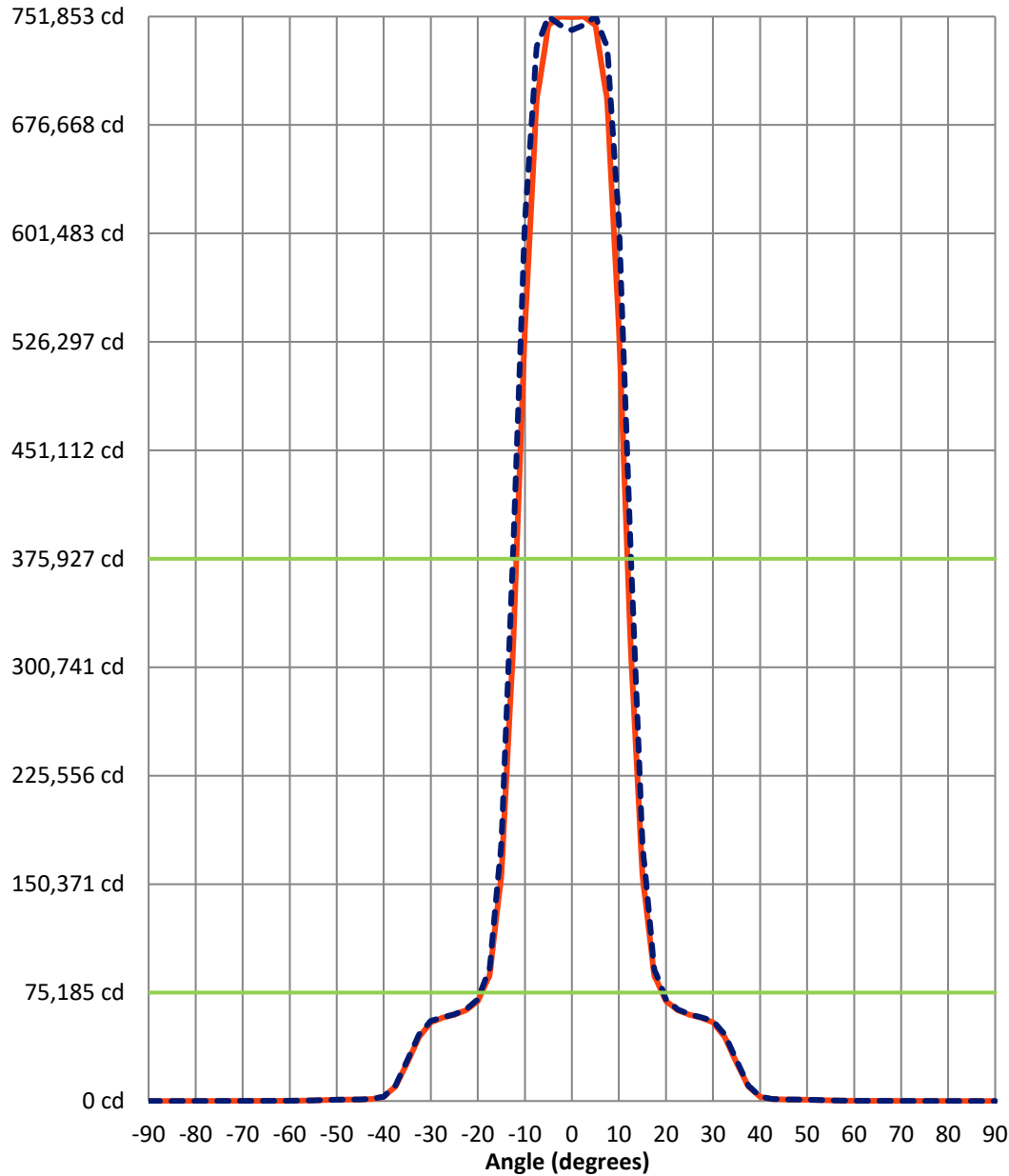
### Luminous Intensity Polar Plot



— Vertical Distribution Through -5-Deg      - - - Horizontal Distribution Through -2.5-Deg

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### Luminous Intensity Plot



**Beam:**  
H Angle: 25.1°  
V Angle: 23.6°  
Lumens: 96270.3  
Efficiency: 53.2%

**Field:**  
H Angle: 38.9°  
V Angle: 38.4°  
Lumens: 134081.6  
Efficiency: 74.1%

**Spill:**  
Lumens: 46758  
Efficiency: 25.9%

— Vertical Distribution through -5-Deg  
- - Horizontal Distribution through -2.5-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	0.3	0.5	0.8	1.1	1.3	1.6	1.8	2.1	2.3	2.6
85°	0.0	0.5	1.1	1.6	2.1	2.6	3.2	3.7	4.2	4.7	5.2
82.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.7	5.5	6.2	7.0	7.7
80°	0.0	1.1	2.1	3.2	4.2	5.3	6.3	7.3	8.3	9.3	10.3
77.5°	0.0	1.3	2.6	4.0	5.3	6.6	7.9	9.2	10.4	11.7	13.2
75°	0.0	1.6	3.2	4.7	6.3	7.9	9.4	11.0	12.6	14.8	17.0
72.5°	0.0	1.8	3.7	5.5	7.3	9.2	11.0	13.0	15.6	18.2	20.8
70°	0.0	2.1	4.2	6.2	8.3	10.4	12.6	15.6	18.6	21.6	25.1
67.5°	0.0	2.3	4.7	7.0	9.3	11.7	14.8	18.2	21.6	25.6	29.6
65°	0.0	2.6	5.2	7.7	10.3	13.2	17.0	20.8	25.1	29.6	34.2
62.5°	0.0	2.8	5.6	8.5	11.3	15.0	19.2	23.7	28.6	33.6	39.4
60°	0.0	3.0	6.1	9.2	12.3	16.8	21.3	26.6	32.0	38.2	44.4
57.5°	0.0	3.3	6.6	9.9	13.6	18.5	23.7	29.6	35.8	42.6	49.8
55°	0.0	3.5	7.0	10.5	14.9	20.1	26.1	32.4	39.7	47.1	55.4
52.5°	0.0	3.7	7.4	11.2	16.2	21.8	28.5	35.6	43.4	52.0	60.8
50°	0.0	3.9	7.9	11.8	17.5	23.7	30.8	38.8	47.2	56.7	68.3
47.5°	0.0	4.1	8.3	12.5	18.7	25.6	33.1	41.9	51.3	61.3	75.7
45°	0.0	4.3	8.7	13.4	19.9	27.3	35.6	44.8	55.2	67.7	82.9
42.5°	0.0	4.5	9.0	14.2	21.0	29.0	38.0	47.9	59.0	73.9	88.5
40°	0.0	4.7	9.4	15.0	22.1	30.7	40.3	51.0	63.1	79.8	93.6
37.5°	0.0	4.8	9.7	15.8	23.4	32.2	42.5	54.0	68.1	85.1	98.4
35°	0.0	5.0	10.1	16.5	24.5	33.8	44.6	56.8	72.8	89.3	103.3
32.5°	0.0	5.1	10.4	17.2	25.6	35.5	46.7	59.5	77.3	93.2	108.1
30°	0.0	5.3	10.6	17.8	26.6	37.0	48.8	62.3	81.5	96.8	112.7
27.5°	0.0	5.4	10.9	18.4	27.6	38.4	50.8	65.6	85.0	100.2	116.9
25°	0.0	5.5	11.1	18.9	28.5	39.7	52.6	68.7	87.8	103.6	120.9
22.5°	0.0	5.6	11.4	19.4	29.3	40.9	54.2	71.6	90.3	106.8	125.0
20°	0.0	5.7	11.6	19.8	30.0	41.9	55.7	74.1	92.6	109.6	128.8
17.5°	0.0	5.8	11.7	20.2	30.6	42.9	57.0	76.4	94.6	112.2	132.1
15°	0.0	5.9	11.9	20.6	31.2	43.7	58.2	78.4	96.4	114.4	135.0
12.5°	0.0	6.0	12.0	20.8	31.6	44.4	59.2	80.1	97.9	116.3	137.5
10°	0.0	6.0	12.1	21.1	32.0	45.0	60.0	81.4	99.1	117.9	139.6
7.5°	0.0	6.0	12.2	21.3	32.3	45.4	60.6	82.5	100.1	119.1	141.1
5°	0.0	6.1	12.3	21.4	32.5	45.7	61.0	83.3	100.7	120.0	142.3
2.5°	0.0	6.1	12.3	21.5	32.7	45.9	61.3	83.7	101.2	120.5	143.0
0°	0.0	6.1	12.3	21.5	32.7	46.0	61.4	83.9	101.3	120.7	143.2
-2.5°	0.0	6.1	12.3	21.5	32.7	46.0	61.4	83.9	101.3	120.7	143.2
-5°	0.0	6.1	12.3	21.4	32.5	45.7	61.0	83.3	100.7	120.0	142.3
-7.5°	0.0	6.0	12.2	21.3	32.3	45.4	60.6	82.5	100.1	119.1	141.1
-10°	0.0	6.0	12.1	21.1	32.0	45.0	60.0	81.4	99.1	117.9	139.6
-12.5°	0.0	6.0	12.0	20.8	31.6	44.4	59.2	80.1	97.9	116.3	137.5
-15°	0.0	5.9	11.9	20.6	31.2	43.7	58.2	78.4	96.4	114.4	135.0
-17.5°	0.0	5.8	11.7	20.2	30.6	42.9	57.0	76.4	94.6	112.2	132.1
-20°	0.0	5.7	11.6	19.8	30.0	41.9	55.7	74.1	92.6	109.6	128.8



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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	5.6	11.4	19.4	29.3	40.9	54.2	71.6	90.3	106.8	125.0
-25°	0.0	5.5	11.1	18.9	28.5	39.7	52.6	68.7	87.8	103.6	120.9
-27.5°	0.0	5.4	10.9	18.4	27.6	38.4	50.8	65.6	85.0	100.2	116.9
-30°	0.0	5.3	10.6	17.8	26.6	37.0	48.8	62.3	81.5	96.8	112.7
-32.5°	0.0	5.1	10.4	17.2	25.6	35.5	46.7	59.5	77.3	93.2	108.1
-35°	0.0	5.0	10.1	16.5	24.5	33.8	44.6	56.8	72.8	89.3	103.3
-37.5°	0.0	4.8	9.7	15.8	23.4	32.2	42.5	54.0	68.1	85.1	98.4
-40°	0.0	4.7	9.4	15.0	22.1	30.7	40.3	51.0	63.1	79.8	93.6
-42.5°	0.0	4.5	9.0	14.2	21.0	29.0	38.0	47.9	59.0	73.9	88.5
-45°	0.0	4.3	8.7	13.4	19.9	27.3	35.6	44.8	55.2	67.7	82.9
-47.5°	0.0	4.1	8.3	12.5	18.7	25.6	33.1	41.9	51.3	61.3	75.7
-50°	0.0	3.9	7.9	11.8	17.5	23.7	30.8	38.8	47.2	56.7	68.3
-52.5°	0.0	3.7	7.4	11.2	16.2	21.8	28.5	35.6	43.4	52.0	60.8
-55°	0.0	3.5	7.0	10.5	14.9	20.1	26.1	32.4	39.7	47.1	55.4
-57.5°	0.0	3.3	6.6	9.9	13.6	18.5	23.7	29.6	35.8	42.6	49.8
-60°	0.0	3.0	6.1	9.2	12.3	16.8	21.3	26.6	32.0	38.2	44.4
-62.5°	0.0	2.8	5.6	8.5	11.3	15.0	19.2	23.7	28.6	33.6	39.4
-65°	0.0	2.6	5.2	7.7	10.3	13.2	17.0	20.8	25.1	29.6	34.2
-67.5°	0.0	2.3	4.7	7.0	9.3	11.7	14.8	18.2	21.6	25.6	29.6
-70°	0.0	2.1	4.2	6.2	8.3	10.4	12.6	15.6	18.6	21.6	25.1
-72.5°	0.0	1.8	3.7	5.5	7.3	9.2	11.0	13.0	15.6	18.2	20.8
-75°	0.0	1.6	3.2	4.7	6.3	7.9	9.4	11.0	12.6	14.8	17.0
-77.5°	0.0	1.3	2.6	4.0	5.3	6.6	7.9	9.2	10.4	11.7	13.2
-80°	0.0	1.1	2.1	3.2	4.2	5.3	6.3	7.3	8.3	9.3	10.3
-82.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.7	5.5	6.2	7.0	7.7
-85°	0.0	0.5	1.1	1.6	2.1	2.6	3.2	3.7	4.2	4.7	5.2
-87.5°	0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.8	2.1	2.3	2.6
-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):**

	-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°	2.8	3.0	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.8
85°	5.6	6.1	6.6	7.0	7.4	7.9	8.3	8.7	9.0	9.4	9.7
82.5°	8.5	9.2	9.9	10.5	11.2	11.8	12.5	13.4	14.2	15.0	15.8
80°	11.3	12.3	13.6	14.9	16.2	17.5	18.7	19.9	21.0	22.1	23.4
77.5°	15.0	16.8	18.5	20.1	21.8	23.7	25.6	27.3	29.0	30.7	32.2
75°	19.2	21.3	23.7	26.1	28.5	30.8	33.1	35.6	38.0	40.3	42.5
72.5°	23.7	26.6	29.6	32.4	35.6	38.8	41.9	44.8	47.9	51.0	54.0
70°	28.6	32.0	35.8	39.7	43.4	47.2	51.3	55.2	59.0	63.1	68.1
67.5°	33.6	38.2	42.6	47.1	52.0	56.7	61.3	67.7	73.9	79.8	85.1
65°	39.4	44.4	49.8	55.4	60.8	68.3	75.7	82.9	88.5	93.6	98.4
62.5°	45.0	51.2	57.5	64.6	73.3	81.8	88.6	94.7	100.6	106.8	112.9
60°	51.2	58.2	66.7	76.4	85.4	92.6	99.5	106.8	114.0	120.9	128.5
57.5°	57.5	66.7	77.4	87.0	95.0	102.9	111.3	119.4	128.2	136.9	145.9
55°	64.6	76.4	87.0	95.8	104.7	114.0	123.4	133.5	143.4	155.8	167.8
52.5°	73.3	85.4	95.0	104.7	114.9	125.5	136.8	149.1	163.0	177.5	194.4
50°	81.8	92.6	102.9	114.0	125.5	137.8	152.0	167.4	185.2	204.0	235.3
47.5°	88.6	99.5	111.3	123.4	136.8	152.0	168.8	189.0	209.8	253.3	297.6
45°	94.7	106.8	119.4	133.5	149.1	167.4	189.0	211.8	262.4	319.1	400.5
42.5°	100.6	114.0	128.2	143.4	163.0	185.2	209.8	262.4	327.1	416.7	536.5
40°	106.8	120.9	136.9	155.8	177.5	204.0	253.3	319.1	416.7	550.4	704.5
37.5°	112.9	128.5	145.9	167.8	194.4	235.3	297.6	400.5	536.5	704.5	842.2
35°	118.6	135.8	156.4	181.1	210.4	274.9	368.4	495.2	676.3	830.1	954.4
32.5°	124.5	142.7	166.3	195.2	243.6	321.0	438.1	620.3	794.0	940.2	1027.0
30°	130.3	151.0	176.5	208.4	276.5	382.2	537.7	734.7	900.4	1005.3	1071.3
27.5°	135.8	159.0	187.9	232.5	312.0	439.6	641.6	828.2	969.7	1058.4	1100.1
25°	140.9	166.3	198.4	258.8	361.3	519.4	734.2	915.5	1023.5	1083.7	1245.5
22.5°	146.2	173.1	208.1	283.0	406.6	601.9	808.9	967.1	1061.2	1113.3	1411.9
20°	151.7	181.1	223.4	307.8	447.7	676.9	876.9	1009.3	1081.1	1255.2	1941.3
17.5°	156.6	188.2	241.2	341.5	505.0	738.8	933.7	1047.1	1099.1	1383.3	2596.9
15°	160.9	194.4	256.8	371.0	559.1	788.2	964.4	1064.4	1164.8	1617.9	3239.5
12.5°	164.5	199.6	270.1	396.2	605.4	830.4	990.8	1076.9	1254.7	2080.3	5582.6
10°	167.5	204.0	281.1	417.0	643.5	865.3	1012.5	1087.3	1329.2	2464.6	7533.8
7.5°	169.9	207.4	289.7	433.3	673.4	892.6	1029.6	1095.4	1387.9	2767.2	9073.7
5°	171.6	209.8	295.9	444.9	694.9	912.2	1041.9	1101.3	1430.1	2985.6	10186.0
2.5°	172.6	211.3	299.6	452.0	707.8	924.0	1049.3	1104.8	1455.6	3117.4	10858.5
0°	172.9	211.8	300.8	454.3	712.1	928.0	1051.8	1106.0	1464.1	3161.5	11083.5
-2.5°	172.6	211.3	299.6	452.0	707.8	924.0	1049.3	1104.8	1455.6	3117.4	10858.5
-5°	171.6	209.8	295.9	444.9	694.9	912.2	1041.9	1101.3	1430.1	2985.6	10186.0
-7.5°	169.9	207.4	289.7	433.3	673.4	892.6	1029.6	1095.4	1387.9	2767.2	9073.7
-10°	167.5	204.0	281.1	417.0	643.5	865.3	1012.5	1087.3	1329.2	2464.6	7533.8
-12.5°	164.5	199.6	270.1	396.2	605.4	830.4	990.8	1076.9	1254.7	2080.3	5582.6
-15°	160.9	194.4	256.8	371.0	559.1	788.2	964.4	1064.4	1164.8	1617.9	3239.5
-17.5°	156.6	188.2	241.2	341.5	505.0	738.8	933.7	1047.1	1099.1	1383.3	2596.9
-20°	151.7	181.1	223.4	307.8	447.7	676.9	876.9	1009.3	1081.1	1255.2	1941.3



REPORT NUMBER: P699944 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5R-S

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	146.2	173.1	208.1	283.0	406.6	601.9	808.9	967.1	1061.2	1113.3	1411.9
-25°	140.9	166.3	198.4	258.8	361.3	519.4	734.2	915.5	1023.5	1083.7	1245.5
-27.5°	135.8	159.0	187.9	232.5	312.0	439.6	641.6	828.2	969.7	1058.4	1100.1
-30°	130.3	151.0	176.5	208.4	276.5	382.2	537.7	734.7	900.4	1005.3	1071.3
-32.5°	124.5	142.7	166.3	195.2	243.6	321.0	438.1	620.3	794.0	940.2	1027.0
-35°	118.6	135.8	156.4	181.1	210.4	274.9	368.4	495.2	676.3	830.1	954.4
-37.5°	112.9	128.5	145.9	167.8	194.4	235.3	297.6	400.5	536.5	704.5	842.2
-40°	106.8	120.9	136.9	155.8	177.5	204.0	253.3	319.1	416.7	550.4	704.5
-42.5°	100.6	114.0	128.2	143.4	163.0	185.2	209.8	262.4	327.1	416.7	536.5
-45°	94.7	106.8	119.4	133.5	149.1	167.4	189.0	211.8	262.4	319.1	400.5
-47.5°	88.6	99.5	111.3	123.4	136.8	152.0	168.8	189.0	209.8	253.3	297.6
-50°	81.8	92.6	102.9	114.0	125.5	137.8	152.0	167.4	185.2	204.0	235.3
-52.5°	73.3	85.4	95.0	104.7	114.9	125.5	136.8	149.1	163.0	177.5	194.4
-55°	64.6	76.4	87.0	95.8	104.7	114.0	123.4	133.5	143.4	155.8	167.8
-57.5°	57.5	66.7	77.4	87.0	95.0	102.9	111.3	119.4	128.2	136.9	145.9
-60°	51.2	58.2	66.7	76.4	85.4	92.6	99.5	106.8	114.0	120.9	128.5
-62.5°	45.0	51.2	57.5	64.6	73.3	81.8	88.6	94.7	100.6	106.8	112.9
-65°	39.4	44.4	49.8	55.4	60.8	68.3	75.7	82.9	88.5	93.6	98.4
-67.5°	33.6	38.2	42.6	47.1	52.0	56.7	61.3	67.7	73.9	79.8	85.1
-70°	28.6	32.0	35.8	39.7	43.4	47.2	51.3	55.2	59.0	63.1	68.1
-72.5°	23.7	26.6	29.6	32.4	35.6	38.8	41.9	44.8	47.9	51.0	54.0
-75°	19.2	21.3	23.7	26.1	28.5	30.8	33.1	35.6	38.0	40.3	42.5
-77.5°	15.0	16.8	18.5	20.1	21.8	23.7	25.6	27.3	29.0	30.7	32.2
-80°	11.3	12.3	13.6	14.9	16.2	17.5	18.7	19.9	21.0	22.1	23.4
-82.5°	8.5	9.2	9.9	10.5	11.2	11.8	12.5	13.4	14.2	15.0	15.8
-85°	5.6	6.1	6.6	7.0	7.4	7.9	8.3	8.7	9.0	9.4	9.7
-87.5°	2.8	3.0	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699944 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5R-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°	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0
85°	10.1	10.4	10.6	10.9	11.1	11.4	11.6	11.7	11.9	12.0	12.1
82.5°	16.5	17.2	17.8	18.4	18.9	19.4	19.8	20.2	20.6	20.8	21.1
80°	24.5	25.6	26.6	27.6	28.5	29.3	30.0	30.6	31.2	31.6	32.0
77.5°	33.8	35.5	37.0	38.4	39.7	40.9	41.9	42.9	43.7	44.4	45.0
75°	44.6	46.7	48.8	50.8	52.6	54.2	55.7	57.0	58.2	59.2	60.0
72.5°	56.8	59.5	62.3	65.6	68.7	71.6	74.1	76.4	78.4	80.1	81.4
70°	72.8	77.3	81.5	85.0	87.8	90.3	92.6	94.6	96.4	97.9	99.1
67.5°	89.3	93.2	96.8	100.2	103.6	106.8	109.6	112.2	114.4	116.3	117.9
65°	103.3	108.1	112.7	116.9	120.9	125.0	128.8	132.1	135.0	137.5	139.6
62.5°	118.6	124.5	130.3	135.8	140.9	146.2	151.7	156.6	160.9	164.5	167.5
60°	135.8	142.7	151.0	159.0	166.3	173.1	181.1	188.2	194.4	199.6	204.0
57.5°	156.4	166.3	176.5	187.9	198.4	208.1	223.4	241.2	256.8	270.1	281.1
55°	181.1	195.2	208.4	232.5	258.8	283.0	307.8	341.5	371.0	396.2	417.0
52.5°	210.4	243.6	276.5	312.0	361.3	406.6	447.7	505.0	559.1	605.4	643.5
50°	274.9	321.0	382.2	439.6	519.4	601.9	676.9	738.8	788.2	830.4	865.3
47.5°	368.4	438.1	537.7	641.6	734.2	808.9	876.9	933.7	964.4	990.8	1012.5
45°	495.2	620.3	734.7	828.2	915.5	967.1	1009.3	1047.1	1064.4	1076.9	1087.3
42.5°	676.3	794.0	900.4	969.7	1023.5	1061.2	1081.1	1099.1	1164.8	1254.7	1329.2
40°	830.1	940.2	1005.3	1058.4	1083.7	1113.3	1255.2	1383.3	1617.9	2080.3	2464.6
37.5°	954.4	1027.0	1071.3	1100.1	1245.5	1411.9	1941.3	2596.9	3239.5	5582.6	7533.8
35°	1034.2	1077.8	1132.7	1335.4	1760.5	2606.6	4212.1	7516.0	10454.7	15375.6	20135.2
32.5°	1077.8	1154.9	1381.0	2092.7	3060.5	6921.8	10837.8	18522.2	25654.1	31883.7	37128.9
30°	1132.7	1381.0	2204.4	3764.2	8580.5	15625.1	25054.6	33730.9	41544.1	47576.5	50516.2
27.5°	1335.4	2092.7	3764.2	9139.0	18213.1	29068.5	39305.4	47758.1	52106.3	55920.3	56699.3
25°	1760.5	3060.5	8580.5	18213.1	30435.4	42146.7	50025.9	55238.3	56894.4	57885.7	58709.0
22.5°	2606.6	6921.8	15625.1	29068.5	42146.7	50792.7	56152.1	57490.5	58694.0	59746.2	60915.8
20°	4212.1	10837.8	25054.6	39305.4	50025.9	56152.1	57692.7	59106.0	60498.0	62412.8	64418.5
17.5°	7516.0	18522.2	33730.9	47758.1	55238.3	57490.5	59106.0	60864.0	63189.0	66982.3	70821.7
15°	10454.7	25654.1	41544.1	52106.3	56894.4	58694.0	60498.0	63189.0	67861.6	76122.5	89277.9
12.5°	15375.6	31883.7	47576.5	55920.3	57885.7	59746.2	62412.8	66982.3	76122.5	92473.1	150863.0
10°	20135.2	37128.9	50516.2	56699.3	58709.0	60915.8	64418.5	70821.7	89277.9	150863.0	256707.5
7.5°	23899.9	41289.2	52855.7	57311.5	59364.6	62122.8	67232.2	80063.3	122036.1	222127.0	407936.0
5°	26624.2	44306.4	54557.1	57758.2	59845.2	63012.7	69322.6	87353.9	156996.8	315013.3	535010.1
2.5°	28273.3	46135.6	55590.6	58030.2	60138.7	63558.6	70612.5	91889.6	179008.9	381255.0	608664.9
0°	28825.5	46748.6	55937.3	58121.6	60237.5	63742.7	71048.8	93430.7	186539.1	405640.1	633872.5
-2.5°	28273.3	46135.6	55590.6	58030.2	60138.7	63558.6	70612.5	91889.6	179008.9	381255.0	608664.9
-5°	26624.2	44306.4	54557.1	57758.2	59845.2	63012.7	69322.6	87353.9	156996.8	315013.3	535010.1
-7.5°	23899.9	41289.2	52855.7	57311.5	59364.6	62122.8	67232.2	80063.3	122036.1	222127.0	407936.0
-10°	20135.2	37128.9	50516.2	56699.3	58709.0	60915.8	64418.5	70821.7	89277.9	150863.0	256707.5
-12.5°	15375.6	31883.7	47576.5	55920.3	57885.7	59746.2	62412.8	66982.3	76122.5	92473.1	150863.0
-15°	10454.7	25654.1	41544.1	52106.3	56894.4	58694.0	60498.0	63189.0	67861.6	76122.5	89277.9
-17.5°	7516.0	18522.2	33730.9	47758.1	55238.3	57490.5	59106.0	60864.0	63189.0	66982.3	70821.7
-20°	4212.1	10837.8	25054.6	39305.4	50025.9	56152.1	57692.7	59106.0	60498.0	62412.8	64418.5



REPORT NUMBER: P699944 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5R-S

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2606.6	6921.8	15625.1	29068.5	42146.7	50792.7	56152.1	57490.5	58694.0	59746.2	60915.8
-25°	1760.5	3060.5	8580.5	18213.1	30435.4	42146.7	50025.9	55238.3	56894.4	57885.7	58709.0
-27.5°	1335.4	2092.7	3764.2	9139.0	18213.1	29068.5	39305.4	47758.1	52106.3	55920.3	56699.3
-30°	1132.7	1381.0	2204.4	3764.2	8580.5	15625.1	25054.6	33730.9	41544.1	47576.5	50516.2
-32.5°	1077.8	1154.9	1381.0	2092.7	3060.5	6921.8	10837.8	18522.2	25654.1	31883.7	37128.9
-35°	1034.2	1077.8	1132.7	1335.4	1760.5	2606.6	4212.1	7516.0	10454.7	15375.6	20135.2
-37.5°	954.4	1027.0	1071.3	1100.1	1245.5	1411.9	1941.3	2596.9	3239.5	5582.6	7533.8
-40°	830.1	940.2	1005.3	1058.4	1083.7	1113.3	1255.2	1383.3	1617.9	2080.3	2464.6
-42.5°	676.3	794.0	900.4	969.7	1023.5	1061.2	1081.1	1099.1	1164.8	1254.7	1329.2
-45°	495.2	620.3	734.7	828.2	915.5	967.1	1009.3	1047.1	1064.4	1076.9	1087.3
-47.5°	368.4	438.1	537.7	641.6	734.2	808.9	876.9	933.7	964.4	990.8	1012.5
-50°	274.9	321.0	382.2	439.6	519.4	601.9	676.9	738.8	788.2	830.4	865.3
-52.5°	210.4	243.6	276.5	312.0	361.3	406.6	447.7	505.0	559.1	605.4	643.5
-55°	181.1	195.2	208.4	232.5	258.8	283.0	307.8	341.5	371.0	396.2	417.0
-57.5°	156.4	166.3	176.5	187.9	198.4	208.1	223.4	241.2	256.8	270.1	281.1
-60°	135.8	142.7	151.0	159.0	166.3	173.1	181.1	188.2	194.4	199.6	204.0
-62.5°	118.6	124.5	130.3	135.8	140.9	146.2	151.7	156.6	160.9	164.5	167.5
-65°	103.3	108.1	112.7	116.9	120.9	125.0	128.8	132.1	135.0	137.5	139.6
-67.5°	89.3	93.2	96.8	100.2	103.6	106.8	109.6	112.2	114.4	116.3	117.9
-70°	72.8	77.3	81.5	85.0	87.8	90.3	92.6	94.6	96.4	97.9	99.1
-72.5°	56.8	59.5	62.3	65.6	68.7	71.6	74.1	76.4	78.4	80.1	81.4
-75°	44.6	46.7	48.8	50.8	52.6	54.2	55.7	57.0	58.2	59.2	60.0
-77.5°	33.8	35.5	37.0	38.4	39.7	40.9	41.9	42.9	43.7	44.4	45.0
-80°	24.5	25.6	26.6	27.6	28.5	29.3	30.0	30.6	31.2	31.6	32.0
-82.5°	16.5	17.2	17.8	18.4	18.9	19.4	19.8	20.2	20.6	20.8	21.1
-85°	10.1	10.4	10.6	10.9	11.1	11.4	11.6	11.7	11.9	12.0	12.1
-87.5°	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	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: P699944 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5R-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°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	6.0	5.9	5.8
85°	12.2	12.3	12.3	12.3	12.3	12.3	12.2	12.1	12.0	11.9	11.7
82.5°	21.3	21.4	21.5	21.5	21.5	21.4	21.3	21.1	20.8	20.6	20.2
80°	32.3	32.5	32.7	32.7	32.7	32.5	32.3	32.0	31.6	31.2	30.6
77.5°	45.4	45.7	45.9	46.0	45.9	45.7	45.4	45.0	44.4	43.7	42.9
75°	60.6	61.0	61.3	61.4	61.3	61.0	60.6	60.0	59.2	58.2	57.0
72.5°	82.5	83.3	83.7	83.9	83.7	83.3	82.5	81.4	80.1	78.4	76.4
70°	100.1	100.7	101.2	101.3	101.2	100.7	100.1	99.1	97.9	96.4	94.6
67.5°	119.1	120.0	120.5	120.7	120.5	120.0	119.1	117.9	116.3	114.4	112.2
65°	141.1	142.3	143.0	143.2	143.0	142.3	141.1	139.6	137.5	135.0	132.1
62.5°	169.9	171.6	172.6	172.9	172.6	171.6	169.9	167.5	164.5	160.9	156.6
60°	207.4	209.8	211.3	211.8	211.3	209.8	207.4	204.0	199.6	194.4	188.2
57.5°	289.7	295.9	299.6	300.8	299.6	295.9	289.7	281.1	270.1	256.8	241.2
55°	433.3	444.9	452.0	454.3	452.0	444.9	433.3	417.0	396.2	371.0	341.5
52.5°	673.4	694.9	707.8	712.1	707.8	694.9	673.4	643.5	605.4	559.1	505.0
50°	892.6	912.2	924.0	928.0	924.0	912.2	892.6	865.3	830.4	788.2	738.8
47.5°	1029.6	1041.9	1049.3	1051.8	1049.3	1041.9	1029.6	1012.5	990.8	964.4	933.7
45°	1095.4	1101.3	1104.8	1106.0	1104.8	1101.3	1095.4	1087.3	1076.9	1064.4	1047.1
42.5°	1387.9	1430.1	1455.6	1464.1	1455.6	1430.1	1387.9	1329.2	1254.7	1164.8	1099.1
40°	2767.2	2985.6	3117.4	3161.5	3117.4	2985.6	2767.2	2464.6	2080.3	1617.9	1383.3
37.5°	9073.7	10186.0	10858.5	11083.5	10858.5	10186.0	9073.7	7533.8	5582.6	3239.5	2596.9
35°	23899.9	26624.2	28273.3	28825.5	28273.3	26624.2	23899.9	20135.2	15375.6	10454.7	7516.0
32.5°	41289.2	44306.4	46135.6	46748.6	46135.6	44306.4	41289.2	37128.9	31883.7	25654.1	18522.2
30°	52855.7	54557.1	55590.6	55937.3	55590.6	54557.1	52855.7	50516.2	47576.5	41544.1	33730.9
27.5°	57311.5	57758.2	58030.2	58121.6	58030.2	57758.2	57311.5	56699.3	55920.3	52106.3	47758.1
25°	59364.6	59845.2	60138.7	60237.5	60138.7	59845.2	59364.6	58709.0	57885.7	56894.4	55238.3
22.5°	62122.8	63012.7	63558.6	63742.7	63558.6	63012.7	62122.8	60915.8	59746.2	58694.0	57490.5
20°	67232.2	69322.6	70612.5	71048.8	70612.5	69322.6	67232.2	64418.5	62412.8	60498.0	59106.0
17.5°	80063.3	87353.9	91889.6	93430.7	91889.6	87353.9	80063.3	70821.7	66982.3	63189.0	60864.0
15°	122036.1	156996.8	179008.9	186539.1	179008.9	156996.8	122036.1	89277.9	76122.5	67861.6	63189.0
12.5°	222127.0	315013.3	381255.0	405640.1	381255.0	315013.3	222127.0	150863.0	92473.1	76122.5	66982.3
10°	407936.0	535010.1	608664.9	633872.5	608664.9	535010.1	407936.0	256707.5	150863.0	89277.9	70821.7
7.5°	584942.2	693396.2	730280.3	737729.9	730280.3	693396.2	584942.2	407936.0	222127.0	122036.1	80063.3
5°	693396.2	745733.2	751853.3	751447.9	751853.3	745733.2	693396.2	535010.1	315013.3	156996.8	87353.9
2.5°	730280.3	751853.3	745925.4	742488.5	745925.4	751853.3	730280.3	608664.9	381255.0	179008.9	91889.6
0°	737729.9	751447.9	742488.5	740008.4	742488.5	751447.9	737729.9	633872.5	405640.1	186539.1	93430.7
-2.5°	730280.3	751853.3	745925.4	742488.5	745925.4	751853.3	730280.3	608664.9	381255.0	179008.9	91889.6
-5°	693396.2	745733.2	751853.3	751447.9	751853.3	745733.2	693396.2	535010.1	315013.3	156996.8	87353.9
-7.5°	584942.2	693396.2	730280.3	737729.9	730280.3	693396.2	584942.2	407936.0	222127.0	122036.1	80063.3
-10°	407936.0	535010.1	608664.9	633872.5	608664.9	535010.1	407936.0	256707.5	150863.0	89277.9	70821.7
-12.5°	222127.0	315013.3	381255.0	405640.1	381255.0	315013.3	222127.0	150863.0	92473.1	76122.5	66982.3
-15°	122036.1	156996.8	179008.9	186539.1	179008.9	156996.8	122036.1	89277.9	76122.5	67861.6	63189.0
-17.5°	80063.3	87353.9	91889.6	93430.7	91889.6	87353.9	80063.3	70821.7	66982.3	63189.0	60864.0
-20°	67232.2	69322.6	70612.5	71048.8	70612.5	69322.6	67232.2	64418.5	62412.8	60498.0	59106.0



REPORT NUMBER: P699944 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5R-S

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	62122.8	63012.7	63558.6	63742.7	63558.6	63012.7	62122.8	60915.8	59746.2	58694.0	57490.5
-25°	59364.6	59845.2	60138.7	60237.5	60138.7	59845.2	59364.6	58709.0	57885.7	56894.4	55238.3
-27.5°	57311.5	57758.2	58030.2	58121.6	58030.2	57758.2	57311.5	56699.3	55920.3	52106.3	47758.1
-30°	52855.7	54557.1	55590.6	55937.3	55590.6	54557.1	52855.7	50516.2	47576.5	41544.1	33730.9
-32.5°	41289.2	44306.4	46135.6	46748.6	46135.6	44306.4	41289.2	37128.9	31883.7	25654.1	18522.2
-35°	23899.9	26624.2	28273.3	28825.5	28273.3	26624.2	23899.9	20135.2	15375.6	10454.7	7516.0
-37.5°	9073.7	10186.0	10858.5	11083.5	10858.5	10186.0	9073.7	7533.8	5582.6	3239.5	2596.9
-40°	2767.2	2985.6	3117.4	3161.5	3117.4	2985.6	2767.2	2464.6	2080.3	1617.9	1383.3
-42.5°	1387.9	1430.1	1455.6	1464.1	1455.6	1430.1	1387.9	1329.2	1254.7	1164.8	1099.1
-45°	1095.4	1101.3	1104.8	1106.0	1104.8	1101.3	1095.4	1087.3	1076.9	1064.4	1047.1
-47.5°	1029.6	1041.9	1049.3	1051.8	1049.3	1041.9	1029.6	1012.5	990.8	964.4	933.7
-50°	892.6	912.2	924.0	928.0	924.0	912.2	892.6	865.3	830.4	788.2	738.8
-52.5°	673.4	694.9	707.8	712.1	707.8	694.9	673.4	643.5	605.4	559.1	505.0
-55°	433.3	444.9	452.0	454.3	452.0	444.9	433.3	417.0	396.2	371.0	341.5
-57.5°	289.7	295.9	299.6	300.8	299.6	295.9	289.7	281.1	270.1	256.8	241.2
-60°	207.4	209.8	211.3	211.8	211.3	209.8	207.4	204.0	199.6	194.4	188.2
-62.5°	169.9	171.6	172.6	172.9	172.6	171.6	169.9	167.5	164.5	160.9	156.6
-65°	141.1	142.3	143.0	143.2	143.0	142.3	141.1	139.6	137.5	135.0	132.1
-67.5°	119.1	120.0	120.5	120.7	120.5	120.0	119.1	117.9	116.3	114.4	112.2
-70°	100.1	100.7	101.2	101.3	101.2	100.7	100.1	99.1	97.9	96.4	94.6
-72.5°	82.5	83.3	83.7	83.9	83.7	83.3	82.5	81.4	80.1	78.4	76.4
-75°	60.6	61.0	61.3	61.4	61.3	61.0	60.6	60.0	59.2	58.2	57.0
-77.5°	45.4	45.7	45.9	46.0	45.9	45.7	45.4	45.0	44.4	43.7	42.9
-80°	32.3	32.5	32.7	32.7	32.7	32.5	32.3	32.0	31.6	31.2	30.6
-82.5°	21.3	21.4	21.5	21.5	21.5	21.4	21.3	21.1	20.8	20.6	20.2
-85°	12.2	12.3	12.3	12.3	12.3	12.3	12.2	12.1	12.0	11.9	11.7
-87.5°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	6.0	5.9	5.8
-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°	5.7	5.6	5.5	5.4	5.3	5.1	5.0	4.8	4.7	4.5	4.3
85°	11.6	11.4	11.1	10.9	10.6	10.4	10.1	9.7	9.4	9.0	8.7
82.5°	19.8	19.4	18.9	18.4	17.8	17.2	16.5	15.8	15.0	14.2	13.4
80°	30.0	29.3	28.5	27.6	26.6	25.6	24.5	23.4	22.1	21.0	19.9
77.5°	41.9	40.9	39.7	38.4	37.0	35.5	33.8	32.2	30.7	29.0	27.3
75°	55.7	54.2	52.6	50.8	48.8	46.7	44.6	42.5	40.3	38.0	35.6
72.5°	74.1	71.6	68.7	65.6	62.3	59.5	56.8	54.0	51.0	47.9	44.8
70°	92.6	90.3	87.8	85.0	81.5	77.3	72.8	68.1	63.1	59.0	55.2
67.5°	109.6	106.8	103.6	100.2	96.8	93.2	89.3	85.1	79.8	73.9	67.7
65°	128.8	125.0	120.9	116.9	112.7	108.1	103.3	98.4	93.6	88.5	82.9
62.5°	151.7	146.2	140.9	135.8	130.3	124.5	118.6	112.9	106.8	100.6	94.7
60°	181.1	173.1	166.3	159.0	151.0	142.7	135.8	128.5	120.9	114.0	106.8
57.5°	223.4	208.1	198.4	187.9	176.5	166.3	156.4	145.9	136.9	128.2	119.4
55°	307.8	283.0	258.8	232.5	208.4	195.2	181.1	167.8	155.8	143.4	133.5
52.5°	447.7	406.6	361.3	312.0	276.5	243.6	210.4	194.4	177.5	163.0	149.1
50°	676.9	601.9	519.4	439.6	382.2	321.0	274.9	235.3	204.0	185.2	167.4
47.5°	876.9	808.9	734.2	641.6	537.7	438.1	368.4	297.6	253.3	209.8	189.0
45°	1009.3	967.1	915.5	828.2	734.7	620.3	495.2	400.5	319.1	262.4	211.8
42.5°	1081.1	1061.2	1023.5	969.7	900.4	794.0	676.3	536.5	416.7	327.1	262.4
40°	1255.2	1113.3	1083.7	1058.4	1005.3	940.2	830.1	704.5	550.4	416.7	319.1
37.5°	1941.3	1411.9	1245.5	1100.1	1071.3	1027.0	954.4	842.2	704.5	536.5	400.5
35°	4212.1	2606.6	1760.5	1335.4	1132.7	1077.8	1034.2	954.4	830.1	676.3	495.2
32.5°	10837.8	6921.8	3060.5	2092.7	1381.0	1154.9	1077.8	1027.0	940.2	794.0	620.3
30°	25054.6	15625.1	8580.5	3764.2	2204.4	1381.0	1132.7	1071.3	1005.3	900.4	734.7
27.5°	39305.4	29068.5	18213.1	9139.0	3764.2	2092.7	1335.4	1100.1	1058.4	969.7	828.2
25°	50025.9	42146.7	30435.4	18213.1	8580.5	3060.5	1760.5	1245.5	1083.7	1023.5	915.5
22.5°	56152.1	50792.7	42146.7	29068.5	15625.1	6921.8	2606.6	1411.9	1113.3	1061.2	967.1
20°	57692.7	56152.1	50025.9	39305.4	25054.6	10837.8	4212.1	1941.3	1255.2	1081.1	1009.3
17.5°	59106.0	57490.5	55238.3	47758.1	33730.9	18522.2	7516.0	2596.9	1383.3	1099.1	1047.1
15°	60498.0	58694.0	56894.4	52106.3	41544.1	25654.1	10454.7	3239.5	1617.9	1164.8	1064.4
12.5°	62412.8	59746.2	57885.7	55920.3	47576.5	31883.7	15375.6	5582.6	2080.3	1254.7	1076.9
10°	64418.5	60915.8	58709.0	56699.3	50516.2	37128.9	20135.2	7533.8	2464.6	1329.2	1087.3
7.5°	67232.2	62122.8	59364.6	57311.5	52855.7	41289.2	23899.9	9073.7	2767.2	1387.9	1095.4
5°	69322.6	63012.7	59845.2	57758.2	54557.1	44306.4	26624.2	10186.0	2985.6	1430.1	1101.3
2.5°	70612.5	63558.6	60138.7	58030.2	55590.6	46135.6	28273.3	10858.5	3117.4	1455.6	1104.8
0°	71048.8	63742.7	60237.5	58121.6	55937.3	46748.6	28825.5	11083.5	3161.5	1464.1	1106.0
-2.5°	70612.5	63558.6	60138.7	58030.2	55590.6	46135.6	28273.3	10858.5	3117.4	1455.6	1104.8
-5°	69322.6	63012.7	59845.2	57758.2	54557.1	44306.4	26624.2	10186.0	2985.6	1430.1	1101.3
-7.5°	67232.2	62122.8	59364.6	57311.5	52855.7	41289.2	23899.9	9073.7	2767.2	1387.9	1095.4
-10°	64418.5	60915.8	58709.0	56699.3	50516.2	37128.9	20135.2	7533.8	2464.6	1329.2	1087.3
-12.5°	62412.8	59746.2	57885.7	55920.3	47576.5	31883.7	15375.6	5582.6	2080.3	1254.7	1076.9
-15°	60498.0	58694.0	56894.4	52106.3	41544.1	25654.1	10454.7	3239.5	1617.9	1164.8	1064.4
-17.5°	59106.0	57490.5	55238.3	47758.1	33730.9	18522.2	7516.0	2596.9	1383.3	1099.1	1047.1
-20°	57692.7	56152.1	50025.9	39305.4	25054.6	10837.8	4212.1	1941.3	1255.2	1081.1	1009.3



REPORT NUMBER: P699944 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5R-S

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	56152.1	50792.7	42146.7	29068.5	15625.1	6921.8	2606.6	1411.9	1113.3	1061.2	967.1
-25°	50025.9	42146.7	30435.4	18213.1	8580.5	3060.5	1760.5	1245.5	1083.7	1023.5	915.5
-27.5°	39305.4	29068.5	18213.1	9139.0	3764.2	2092.7	1335.4	1100.1	1058.4	969.7	828.2
-30°	25054.6	15625.1	8580.5	3764.2	2204.4	1381.0	1132.7	1071.3	1005.3	900.4	734.7
-32.5°	10837.8	6921.8	3060.5	2092.7	1381.0	1154.9	1077.8	1027.0	940.2	794.0	620.3
-35°	4212.1	2606.6	1760.5	1335.4	1132.7	1077.8	1034.2	954.4	830.1	676.3	495.2
-37.5°	1941.3	1411.9	1245.5	1100.1	1071.3	1027.0	954.4	842.2	704.5	536.5	400.5
-40°	1255.2	1113.3	1083.7	1058.4	1005.3	940.2	830.1	704.5	550.4	416.7	319.1
-42.5°	1081.1	1061.2	1023.5	969.7	900.4	794.0	676.3	536.5	416.7	327.1	262.4
-45°	1009.3	967.1	915.5	828.2	734.7	620.3	495.2	400.5	319.1	262.4	211.8
-47.5°	876.9	808.9	734.2	641.6	537.7	438.1	368.4	297.6	253.3	209.8	189.0
-50°	676.9	601.9	519.4	439.6	382.2	321.0	274.9	235.3	204.0	185.2	167.4
-52.5°	447.7	406.6	361.3	312.0	276.5	243.6	210.4	194.4	177.5	163.0	149.1
-55°	307.8	283.0	258.8	232.5	208.4	195.2	181.1	167.8	155.8	143.4	133.5
-57.5°	223.4	208.1	198.4	187.9	176.5	166.3	156.4	145.9	136.9	128.2	119.4
-60°	181.1	173.1	166.3	159.0	151.0	142.7	135.8	128.5	120.9	114.0	106.8
-62.5°	151.7	146.2	140.9	135.8	130.3	124.5	118.6	112.9	106.8	100.6	94.7
-65°	128.8	125.0	120.9	116.9	112.7	108.1	103.3	98.4	93.6	88.5	82.9
-67.5°	109.6	106.8	103.6	100.2	96.8	93.2	89.3	85.1	79.8	73.9	67.7
-70°	92.6	90.3	87.8	85.0	81.5	77.3	72.8	68.1	63.1	59.0	55.2
-72.5°	74.1	71.6	68.7	65.6	62.3	59.5	56.8	54.0	51.0	47.9	44.8
-75°	55.7	54.2	52.6	50.8	48.8	46.7	44.6	42.5	40.3	38.0	35.6
-77.5°	41.9	40.9	39.7	38.4	37.0	35.5	33.8	32.2	30.7	29.0	27.3
-80°	30.0	29.3	28.5	27.6	26.6	25.6	24.5	23.4	22.1	21.0	19.9
-82.5°	19.8	19.4	18.9	18.4	17.8	17.2	16.5	15.8	15.0	14.2	13.4
-85°	11.6	11.4	11.1	10.9	10.6	10.4	10.1	9.7	9.4	9.0	8.7
-87.5°	5.7	5.6	5.5	5.4	5.3	5.1	5.0	4.8	4.7	4.5	4.3
-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: P699944 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-5R-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°	4.1	3.9	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	1.8
85°	8.3	7.9	7.4	7.0	6.6	6.1	5.6	5.2	4.7	4.2	3.7
82.5°	12.5	11.8	11.2	10.5	9.9	9.2	8.5	7.7	7.0	6.2	5.5
80°	18.7	17.5	16.2	14.9	13.6	12.3	11.3	10.3	9.3	8.3	7.3
77.5°	25.6	23.7	21.8	20.1	18.5	16.8	15.0	13.2	11.7	10.4	9.2
75°	33.1	30.8	28.5	26.1	23.7	21.3	19.2	17.0	14.8	12.6	11.0
72.5°	41.9	38.8	35.6	32.4	29.6	26.6	23.7	20.8	18.2	15.6	13.0
70°	51.3	47.2	43.4	39.7	35.8	32.0	28.6	25.1	21.6	18.6	15.6
67.5°	61.3	56.7	52.0	47.1	42.6	38.2	33.6	29.6	25.6	21.6	18.2
65°	75.7	68.3	60.8	55.4	49.8	44.4	39.4	34.2	29.6	25.1	20.8
62.5°	88.6	81.8	73.3	64.6	57.5	51.2	45.0	39.4	33.6	28.6	23.7
60°	99.5	92.6	85.4	76.4	66.7	58.2	51.2	44.4	38.2	32.0	26.6
57.5°	111.3	102.9	95.0	87.0	77.4	66.7	57.5	49.8	42.6	35.8	29.6
55°	123.4	114.0	104.7	95.8	87.0	76.4	64.6	55.4	47.1	39.7	32.4
52.5°	136.8	125.5	114.9	104.7	95.0	85.4	73.3	60.8	52.0	43.4	35.6
50°	152.0	137.8	125.5	114.0	102.9	92.6	81.8	68.3	56.7	47.2	38.8
47.5°	168.8	152.0	136.8	123.4	111.3	99.5	88.6	75.7	61.3	51.3	41.9
45°	189.0	167.4	149.1	133.5	119.4	106.8	94.7	82.9	67.7	55.2	44.8
42.5°	209.8	185.2	163.0	143.4	128.2	114.0	100.6	88.5	73.9	59.0	47.9
40°	253.3	204.0	177.5	155.8	136.9	120.9	106.8	93.6	79.8	63.1	51.0
37.5°	297.6	235.3	194.4	167.8	145.9	128.5	112.9	98.4	85.1	68.1	54.0
35°	368.4	274.9	210.4	181.1	156.4	135.8	118.6	103.3	89.3	72.8	56.8
32.5°	438.1	321.0	243.6	195.2	166.3	142.7	124.5	108.1	93.2	77.3	59.5
30°	537.7	382.2	276.5	208.4	176.5	151.0	130.3	112.7	96.8	81.5	62.3
27.5°	641.6	439.6	312.0	232.5	187.9	159.0	135.8	116.9	100.2	85.0	65.6
25°	734.2	519.4	361.3	258.8	198.4	166.3	140.9	120.9	103.6	87.8	68.7
22.5°	808.9	601.9	406.6	283.0	208.1	173.1	146.2	125.0	106.8	90.3	71.6
20°	876.9	676.9	447.7	307.8	223.4	181.1	151.7	128.8	109.6	92.6	74.1
17.5°	933.7	738.8	505.0	341.5	241.2	188.2	156.6	132.1	112.2	94.6	76.4
15°	964.4	788.2	559.1	371.0	256.8	194.4	160.9	135.0	114.4	96.4	78.4
12.5°	990.8	830.4	605.4	396.2	270.1	199.6	164.5	137.5	116.3	97.9	80.1
10°	1012.5	865.3	643.5	417.0	281.1	204.0	167.5	139.6	117.9	99.1	81.4
7.5°	1029.6	892.6	673.4	433.3	289.7	207.4	169.9	141.1	119.1	100.1	82.5
5°	1041.9	912.2	694.9	444.9	295.9	209.8	171.6	142.3	120.0	100.7	83.3
2.5°	1049.3	924.0	707.8	452.0	299.6	211.3	172.6	143.0	120.5	101.2	83.7
0°	1051.8	928.0	712.1	454.3	300.8	211.8	172.9	143.2	120.7	101.3	83.9
-2.5°	1049.3	924.0	707.8	452.0	299.6	211.3	172.6	143.0	120.5	101.2	83.7
-5°	1041.9	912.2	694.9	444.9	295.9	209.8	171.6	142.3	120.0	100.7	83.3
-7.5°	1029.6	892.6	673.4	433.3	289.7	207.4	169.9	141.1	119.1	100.1	82.5
-10°	1012.5	865.3	643.5	417.0	281.1	204.0	167.5	139.6	117.9	99.1	81.4
-12.5°	990.8	830.4	605.4	396.2	270.1	199.6	164.5	137.5	116.3	97.9	80.1
-15°	964.4	788.2	559.1	371.0	256.8	194.4	160.9	135.0	114.4	96.4	78.4
-17.5°	933.7	738.8	505.0	341.5	241.2	188.2	156.6	132.1	112.2	94.6	76.4
-20°	876.9	676.9	447.7	307.8	223.4	181.1	151.7	128.8	109.6	92.6	74.1



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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°	808.9	601.9	406.6	283.0	208.1	173.1	146.2	125.0	106.8	90.3	71.6
-25°	734.2	519.4	361.3	258.8	198.4	166.3	140.9	120.9	103.6	87.8	68.7
-27.5°	641.6	439.6	312.0	232.5	187.9	159.0	135.8	116.9	100.2	85.0	65.6
-30°	537.7	382.2	276.5	208.4	176.5	151.0	130.3	112.7	96.8	81.5	62.3
-32.5°	438.1	321.0	243.6	195.2	166.3	142.7	124.5	108.1	93.2	77.3	59.5
-35°	368.4	274.9	210.4	181.1	156.4	135.8	118.6	103.3	89.3	72.8	56.8
-37.5°	297.6	235.3	194.4	167.8	145.9	128.5	112.9	98.4	85.1	68.1	54.0
-40°	253.3	204.0	177.5	155.8	136.9	120.9	106.8	93.6	79.8	63.1	51.0
-42.5°	209.8	185.2	163.0	143.4	128.2	114.0	100.6	88.5	73.9	59.0	47.9
-45°	189.0	167.4	149.1	133.5	119.4	106.8	94.7	82.9	67.7	55.2	44.8
-47.5°	168.8	152.0	136.8	123.4	111.3	99.5	88.6	75.7	61.3	51.3	41.9
-50°	152.0	137.8	125.5	114.0	102.9	92.6	81.8	68.3	56.7	47.2	38.8
-52.5°	136.8	125.5	114.9	104.7	95.0	85.4	73.3	60.8	52.0	43.4	35.6
-55°	123.4	114.0	104.7	95.8	87.0	76.4	64.6	55.4	47.1	39.7	32.4
-57.5°	111.3	102.9	95.0	87.0	77.4	66.7	57.5	49.8	42.6	35.8	29.6
-60°	99.5	92.6	85.4	76.4	66.7	58.2	51.2	44.4	38.2	32.0	26.6
-62.5°	88.6	81.8	73.3	64.6	57.5	51.2	45.0	39.4	33.6	28.6	23.7
-65°	75.7	68.3	60.8	55.4	49.8	44.4	39.4	34.2	29.6	25.1	20.8
-67.5°	61.3	56.7	52.0	47.1	42.6	38.2	33.6	29.6	25.6	21.6	18.2
-70°	51.3	47.2	43.4	39.7	35.8	32.0	28.6	25.1	21.6	18.6	15.6
-72.5°	41.9	38.8	35.6	32.4	29.6	26.6	23.7	20.8	18.2	15.6	13.0
-75°	33.1	30.8	28.5	26.1	23.7	21.3	19.2	17.0	14.8	12.6	11.0
-77.5°	25.6	23.7	21.8	20.1	18.5	16.8	15.0	13.2	11.7	10.4	9.2
-80°	18.7	17.5	16.2	14.9	13.6	12.3	11.3	10.3	9.3	8.3	7.3
-82.5°	12.5	11.8	11.2	10.5	9.9	9.2	8.5	7.7	7.0	6.2	5.5
-85°	8.3	7.9	7.4	7.0	6.6	6.1	5.6	5.2	4.7	4.2	3.7
-87.5°	4.1	3.9	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	1.8
-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°	1.6	1.3	1.1	0.8	0.5	0.3	0.0
85°	3.2	2.6	2.1	1.6	1.1	0.5	0.0
82.5°	4.7	4.0	3.2	2.4	1.6	0.8	0.0
80°	6.3	5.3	4.2	3.2	2.1	1.1	0.0
77.5°	7.9	6.6	5.3	4.0	2.6	1.3	0.0
75°	9.4	7.9	6.3	4.7	3.2	1.6	0.0
72.5°	11.0	9.2	7.3	5.5	3.7	1.8	0.0
70°	12.6	10.4	8.3	6.2	4.2	2.1	0.0
67.5°	14.8	11.7	9.3	7.0	4.7	2.3	0.0
65°	17.0	13.2	10.3	7.7	5.2	2.6	0.0
62.5°	19.2	15.0	11.3	8.5	5.6	2.8	0.0
60°	21.3	16.8	12.3	9.2	6.1	3.0	0.0
57.5°	23.7	18.5	13.6	9.9	6.6	3.3	0.0
55°	26.1	20.1	14.9	10.5	7.0	3.5	0.0
52.5°	28.5	21.8	16.2	11.2	7.4	3.7	0.0
50°	30.8	23.7	17.5	11.8	7.9	3.9	0.0
47.5°	33.1	25.6	18.7	12.5	8.3	4.1	0.0
45°	35.6	27.3	19.9	13.4	8.7	4.3	0.0
42.5°	38.0	29.0	21.0	14.2	9.0	4.5	0.0
40°	40.3	30.7	22.1	15.0	9.4	4.7	0.0
37.5°	42.5	32.2	23.4	15.8	9.7	4.8	0.0
35°	44.6	33.8	24.5	16.5	10.1	5.0	0.0
32.5°	46.7	35.5	25.6	17.2	10.4	5.1	0.0
30°	48.8	37.0	26.6	17.8	10.6	5.3	0.0
27.5°	50.8	38.4	27.6	18.4	10.9	5.4	0.0
25°	52.6	39.7	28.5	18.9	11.1	5.5	0.0
22.5°	54.2	40.9	29.3	19.4	11.4	5.6	0.0
20°	55.7	41.9	30.0	19.8	11.6	5.7	0.0
17.5°	57.0	42.9	30.6	20.2	11.7	5.8	0.0
15°	58.2	43.7	31.2	20.6	11.9	5.9	0.0
12.5°	59.2	44.4	31.6	20.8	12.0	6.0	0.0
10°	60.0	45.0	32.0	21.1	12.1	6.0	0.0
7.5°	60.6	45.4	32.3	21.3	12.2	6.0	0.0
5°	61.0	45.7	32.5	21.4	12.3	6.1	0.0
2.5°	61.3	45.9	32.7	21.5	12.3	6.1	0.0
0°	61.4	46.0	32.7	21.5	12.3	6.1	0.0
-2.5°	61.3	45.9	32.7	21.5	12.3	6.1	0.0
-5°	61.0	45.7	32.5	21.4	12.3	6.1	0.0
-7.5°	60.6	45.4	32.3	21.3	12.2	6.0	0.0
-10°	60.0	45.0	32.0	21.1	12.1	6.0	0.0
-12.5°	59.2	44.4	31.6	20.8	12.0	6.0	0.0
-15°	58.2	43.7	31.2	20.6	11.9	5.9	0.0
-17.5°	57.0	42.9	30.6	20.2	11.7	5.8	0.0
-20°	55.7	41.9	30.0	19.8	11.6	5.7	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	54.2	40.9	29.3	19.4	11.4	5.6	0.0
-25°	52.6	39.7	28.5	18.9	11.1	5.5	0.0
-27.5°	50.8	38.4	27.6	18.4	10.9	5.4	0.0
-30°	48.8	37.0	26.6	17.8	10.6	5.3	0.0
-32.5°	46.7	35.5	25.6	17.2	10.4	5.1	0.0
-35°	44.6	33.8	24.5	16.5	10.1	5.0	0.0
-37.5°	42.5	32.2	23.4	15.8	9.7	4.8	0.0
-40°	40.3	30.7	22.1	15.0	9.4	4.7	0.0
-42.5°	38.0	29.0	21.0	14.2	9.0	4.5	0.0
-45°	35.6	27.3	19.9	13.4	8.7	4.3	0.0
-47.5°	33.1	25.6	18.7	12.5	8.3	4.1	0.0
-50°	30.8	23.7	17.5	11.8	7.9	3.9	0.0
-52.5°	28.5	21.8	16.2	11.2	7.4	3.7	0.0
-55°	26.1	20.1	14.9	10.5	7.0	3.5	0.0
-57.5°	23.7	18.5	13.6	9.9	6.6	3.3	0.0
-60°	21.3	16.8	12.3	9.2	6.1	3.0	0.0
-62.5°	19.2	15.0	11.3	8.5	5.6	2.8	0.0
-65°	17.0	13.2	10.3	7.7	5.2	2.6	0.0
-67.5°	14.8	11.7	9.3	7.0	4.7	2.3	0.0
-70°	12.6	10.4	8.3	6.2	4.2	2.1	0.0
-72.5°	11.0	9.2	7.3	5.5	3.7	1.8	0.0
-75°	9.4	7.9	6.3	4.7	3.2	1.6	0.0
-77.5°	7.9	6.6	5.3	4.0	2.6	1.3	0.0
-80°	6.3	5.3	4.2	3.2	2.1	1.1	0.0
-82.5°	4.7	4.0	3.2	2.4	1.6	0.8	0.0
-85°	3.2	2.6	2.1	1.6	1.1	0.5	0.0
-87.5°	1.6	1.3	1.1	0.8	0.5	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)