

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: P1306509 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS16-1200R-40-70-5L-A**

Issue Date: 2/3/2026

Test Information

Test Method: LM-79-08
Report Number: P1306509 (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: 2/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS16-1200R-40-70-5L-A
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 70 CRI LEDS AND 5L BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

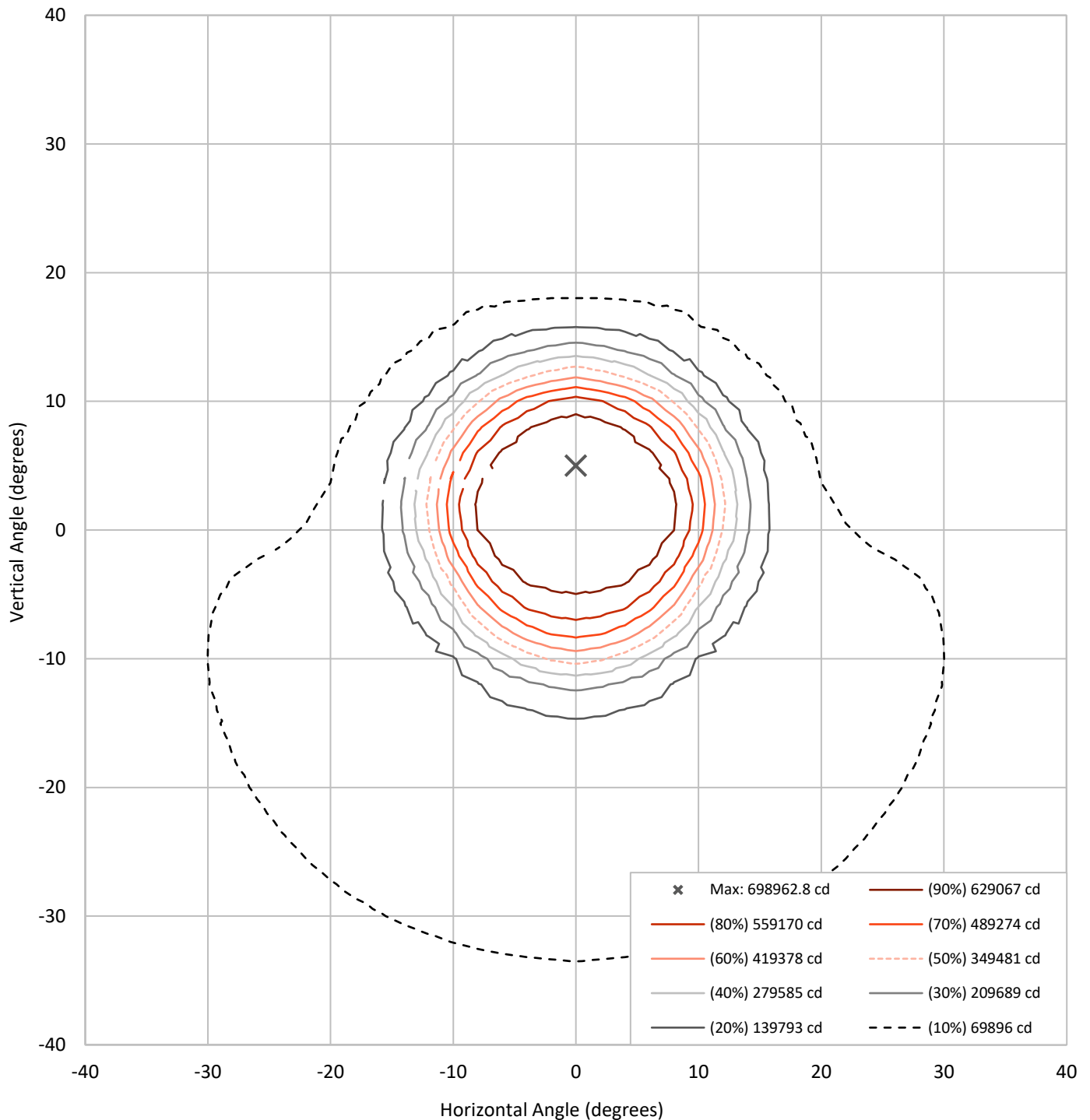
Lumens per Lamp:	N/A	NEMA Type:	3H x 4V
Luminaire Lumens:	165212.2 lumens	Max Intensity:	698962.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	128.1 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		

Beam Angle (50%):	23.3°H x 23°V	Field Angle (10%):	39.5°H x 51.6°V
Beam Lumens:	73319.9 lumens	Field Lumens:	134531 lumens
Beam Efficiency:	44.4%	Field Efficiency:	81.4%

Input Watts (W): 1290
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

REPORT NUMBER: P1306509 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS16-1200R-40-70-5L-A

Iso-Candela Plot





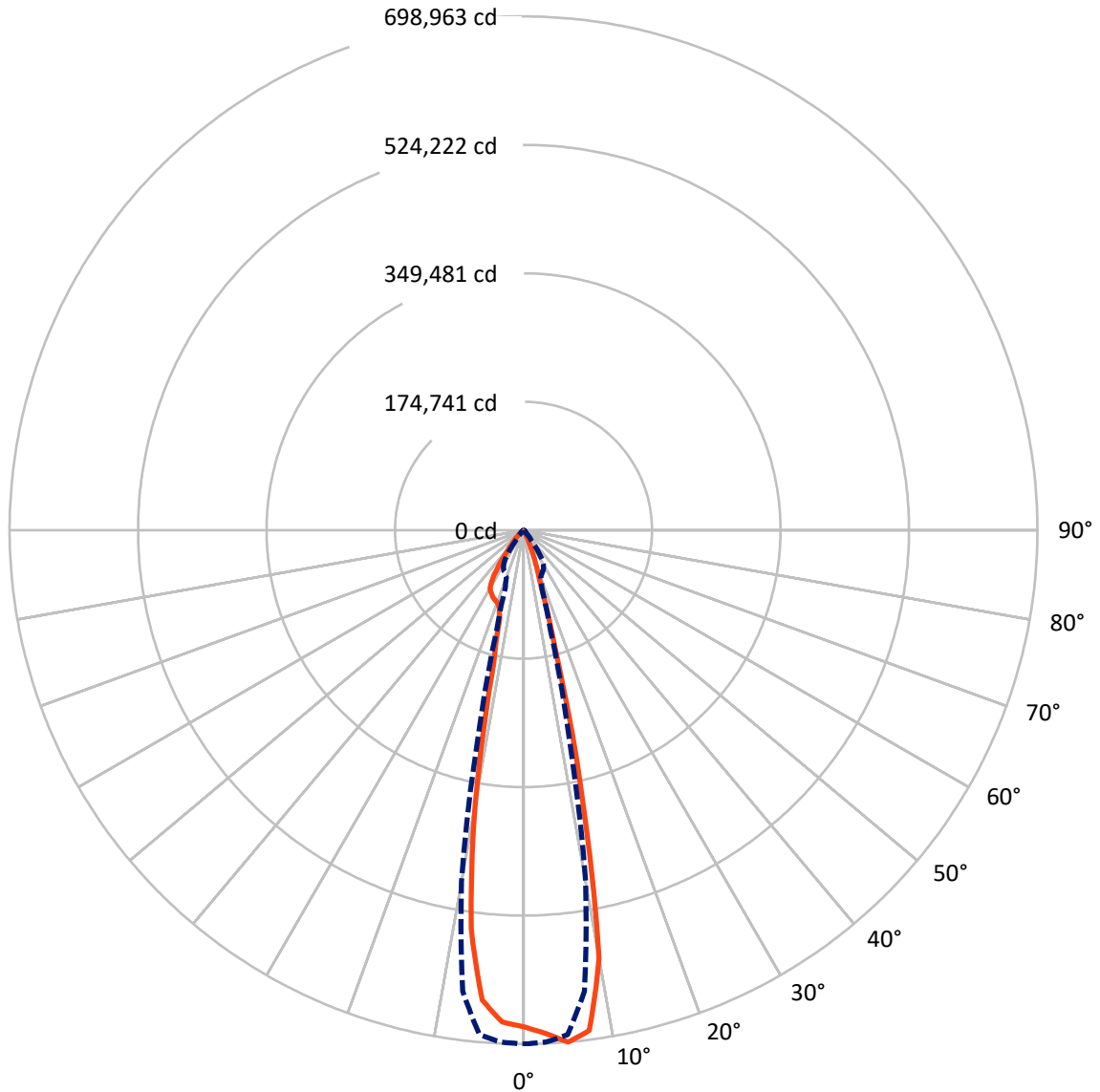
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Lumen Table

90	0.3	1.1		2.2		3.3		3.8		3.3		2.2		1.1		0.3
80	0.3	1.1		2.2		3.3		3.8		3.3		2.2		1.1		0.3
70	0.5	0.4	0.8	1.4	2.0	2.8	3.5	3.8	3.8	3.5	2.8	2.0	1.4	0.8	0.4	0.5
60		0.6	1.4	2.5	4.0	6.3	10.9	20.3	20.3	10.9	6.3	4.0	2.5	1.4	0.6	
50	0.7	0.9	2.1	4.5	9.3	17.3	28.2	43.5	43.5	28.2	17.3	9.3	4.5	2.1	0.9	0.7
40		1.2	3.3	9.0	20.0	36.2	70.3	93.0	93.0	70.3	36.2	20.0	9.0	3.3	1.2	
30	1.0	1.5	5.2	21.0	66.0	282.2	417.6	511.1	511.1	417.6	282.2	66.0	21.0	5.2	1.5	1.0
20		1.8	8.8	52.9	362.9	1070.3	1845.9	5369.6	5369.6	1845.9	1070.3	362.9	52.9	8.8	1.8	
10	1.1	2.1	13.8	112.5	797.7	1687.5	5335.0	18705.9	18705.9	5335.0	1687.5	797.7	112.5	13.8	2.1	1.1
0		2.3	16.9	147.2	1000.1	2026.0	4480.5	15741.4	15741.4	4480.5	2026.0	1000.1	147.2	16.9	2.3	
-10	1.0	2.2	13.7	118.0	795.9	2209.5	2785.2	4258.0	4258.0	2785.2	2209.5	795.9	118.0	13.7	2.2	1.0
-20		1.9	8.4	62.0	378.6	1527.6	2601.8	2940.1	2940.1	2601.8	1527.6	378.6	62.0	8.4	1.9	
-30	0.8	1.5	4.5	20.4	138.8	499.5	1147.0	1662.6	1662.6	1147.0	499.5	138.8	20.4	4.5	1.5	0.8
-40		1.1	2.7	6.3	28.5	117.9	264.0	380.4	380.4	264.0	117.9	28.5	6.3	2.7	1.1	
-50	0.5	0.7	1.8	3.2	5.8	12.9	30.2	44.4	44.4	30.2	12.9	5.8	3.2	1.8	0.7	0.5
-60		0.4	0.9	1.7	2.6	3.6	4.7	5.5	5.5	4.7	3.6	2.6	1.7	0.9	0.4	
-70	0.2	1.1	2.4		3.7		4.2		3.7		2.4		1.1		0.2	
-80		0.2	1.1		2.4		3.7		4.2		3.7		2.4			1.1
-90	0.2	1.1		2.4		3.7		4.2		3.7		2.4		1.1		0.2

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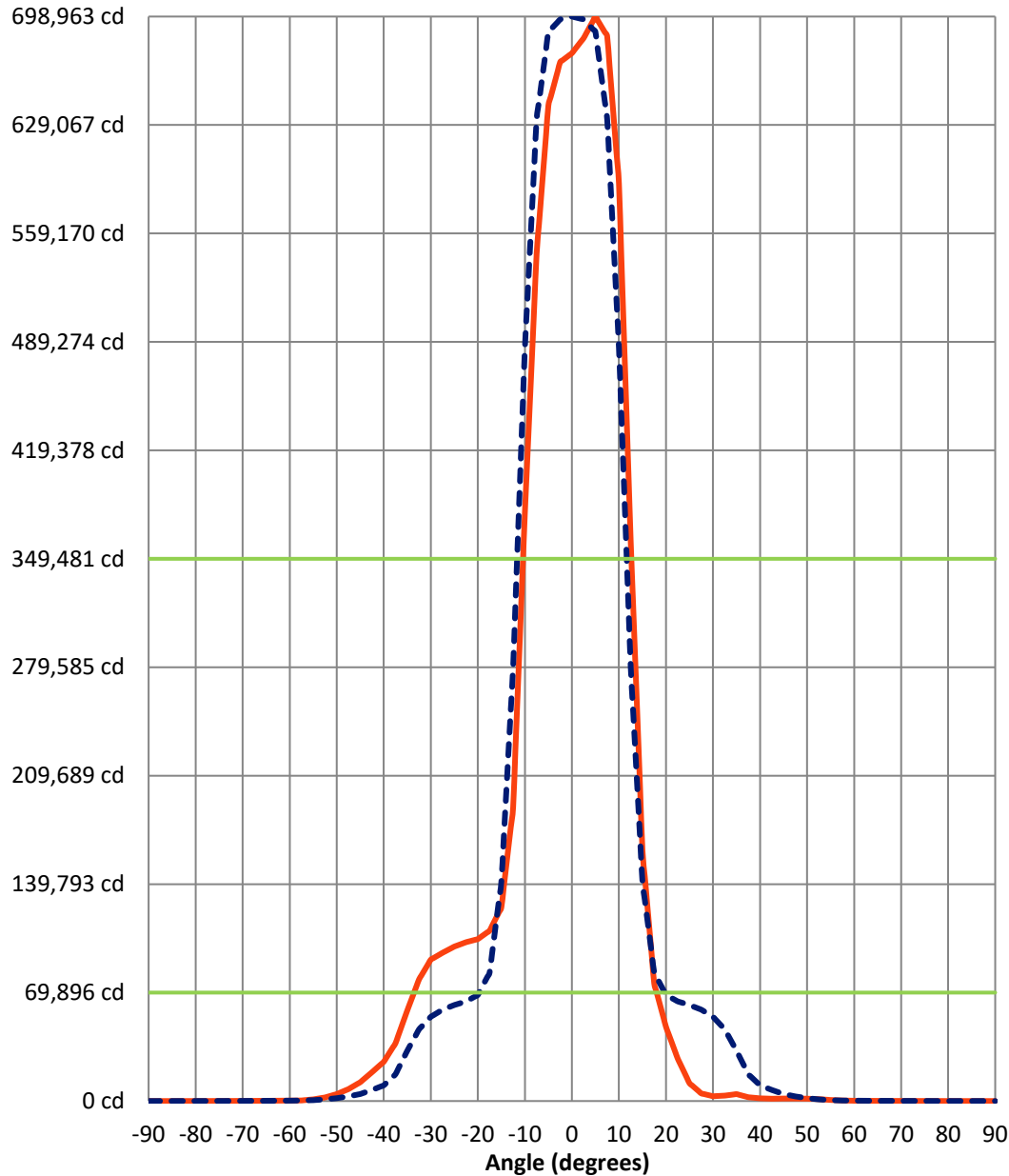
Luminous Intensity Polar Plot



— 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: 73319.9
 Efficiency: 44.4%

Field:
 H Angle: 39.5°
 V Angle: 51.6°
 Lumens: 134531
 Efficiency: 81.4%

Spill:
 Lumens: 30681.2
 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	0.7	1.5	2.2	3.0	3.7	4.4	5.1	5.7	6.3	6.8
85°	0.0	1.5	3.0	4.5	5.9	7.4	8.8	10.1	11.3	12.5	13.6
82.5°	0.0	2.2	4.5	6.7	8.9	11.1	13.2	15.2	16.7	16.9	17.1
80°	0.0	3.0	5.9	8.9	11.8	14.7	17.2	17.6	18.0	18.4	18.7
77.5°	0.0	3.7	7.4	11.1	14.7	17.4	18.2	18.7	19.3	19.8	20.4
75°	0.0	4.4	8.8	13.2	17.2	18.2	19.1	19.8	20.6	21.5	22.4
72.5°	0.0	5.1	10.3	15.4	17.8	18.9	20.0	21.0	22.1	23.3	24.3
70°	0.0	5.8	11.7	17.2	18.4	19.7	21.0	22.4	23.7	25.0	26.6
67.5°	0.0	6.5	13.1	17.6	19.0	20.4	22.1	23.8	25.3	27.1	28.9
65°	0.0	7.2	14.4	18.1	19.6	21.3	23.3	25.1	27.1	29.2	31.4
62.5°	0.0	7.9	15.8	18.5	20.2	22.2	24.4	26.6	28.9	31.3	34.2
60°	0.0	8.5	17.1	18.9	20.8	23.1	25.5	28.2	30.7	33.7	37.0
57.5°	0.0	9.2	17.4	19.4	21.5	24.0	26.8	29.7	32.7	36.1	40.8
55°	0.0	9.8	17.6	19.8	22.2	24.9	28.1	31.2	34.7	38.8	45.1
52.5°	0.0	10.4	17.9	20.1	22.9	25.8	29.3	32.9	36.6	42.6	49.3
50°	0.0	11.0	18.2	20.5	23.5	26.8	30.6	34.5	38.9	46.3	56.0
47.5°	0.0	11.6	18.4	20.9	24.1	27.9	31.8	36.1	42.1	49.9	62.7
45°	0.0	12.1	18.6	21.4	24.7	28.9	33.2	37.8	45.4	55.7	69.2
42.5°	0.0	12.6	18.9	21.8	25.3	29.8	34.6	40.1	48.7	61.2	75.8
40°	0.0	13.1	19.1	22.2	26.0	30.8	35.9	42.8	52.4	66.5	82.4
37.5°	0.0	13.6	19.3	22.6	26.7	31.7	37.1	45.5	57.1	72.1	88.8
35°	0.0	14.0	19.5	23.0	27.4	32.6	38.3	48.1	61.7	77.9	94.5
32.5°	0.0	14.4	19.6	23.3	28.0	33.6	39.8	50.6	66.0	83.3	99.0
30°	0.0	14.8	19.8	23.7	28.6	34.5	41.8	53.3	70.1	88.5	103.5
27.5°	0.0	15.2	20.0	24.0	29.2	35.3	43.7	56.6	74.1	93.4	107.8
25°	0.0	15.5	20.1	24.2	29.7	36.1	45.5	59.7	78.1	97.3	112.0
22.5°	0.0	15.8	20.2	24.5	30.2	36.9	47.1	62.6	81.8	100.7	117.5
20°	0.0	16.1	20.4	24.7	30.6	37.6	48.7	65.3	85.2	103.9	122.7
17.5°	0.0	16.3	20.5	24.9	31.0	38.2	50.0	67.7	88.2	106.9	127.4
15°	0.0	16.5	20.5	25.1	31.3	38.7	51.2	69.8	91.0	109.7	131.7
12.5°	0.0	16.7	20.6	25.3	31.6	39.2	52.2	71.6	93.6	112.2	135.6
10°	0.0	16.8	20.7	25.4	31.8	39.7	53.1	73.2	96.2	115.2	139.9
7.5°	0.0	17.0	20.7	25.5	32.0	40.0	53.8	74.5	98.4	118.1	145.5
5°	0.0	17.0	20.8	25.5	32.1	40.3	54.3	75.5	100.4	120.7	150.9
2.5°	0.0	17.1	20.8	25.6	32.2	40.6	54.7	76.3	102.1	123.0	155.8
0°	0.0	17.1	20.8	25.6	32.2	40.7	54.9	76.7	103.3	125.0	160.1
-2.5°	0.0	17.1	20.8	25.6	32.2	40.8	55.0	76.8	103.6	126.2	163.5
-5°	0.0	17.0	20.8	25.5	32.1	40.8	54.8	76.7	103.5	126.9	166.0
-7.5°	0.0	17.0	20.7	25.5	32.0	40.6	54.6	76.2	102.9	127.2	167.5
-10°	0.0	16.8	20.7	25.4	31.8	40.5	54.1	75.4	101.9	126.9	167.9
-12.5°	0.0	16.7	20.6	25.3	31.6	40.2	53.5	74.3	100.4	126.0	164.7
-15°	0.0	16.5	20.5	25.1	31.3	39.8	52.7	72.9	98.5	123.8	159.5
-17.5°	0.0	16.3	20.5	24.9	31.0	39.3	51.8	71.1	96.1	121.2	153.7
-20°	0.0	16.1	20.4	24.7	30.6	38.7	50.7	69.0	93.2	118.2	147.4



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 CATALOG NUMBER: EPH-LS16-1200R-40-70-5L-A

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	15.8	20.2	24.5	30.2	38.0	49.4	66.6	89.9	114.9	140.5
-25°	0.0	15.5	20.1	24.2	29.7	37.2	47.9	63.8	86.2	111.3	133.2
-27.5°	0.0	15.2	20.0	24.0	29.2	36.2	46.3	60.6	82.1	107.1	128.5
-30°	0.0	14.8	19.8	23.7	28.6	35.2	44.5	57.2	78.0	102.0	123.6
-32.5°	0.0	14.4	19.6	23.3	28.0	34.1	42.6	54.6	73.7	96.5	118.5
-35°	0.0	14.0	19.5	23.0	27.4	32.8	41.0	52.2	69.0	90.5	113.1
-37.5°	0.0	13.6	19.3	22.6	26.7	31.7	39.4	49.6	64.0	84.1	106.3
-40°	0.0	13.1	19.1	22.2	26.0	30.8	37.7	46.9	58.5	77.7	98.4
-42.5°	0.0	12.6	18.9	21.8	25.3	29.8	35.9	44.1	54.5	71.1	90.1
-45°	0.0	12.1	18.6	21.3	24.7	28.9	34.0	41.4	51.0	64.0	81.6
-47.5°	0.0	11.6	18.4	20.9	24.1	27.9	31.9	39.0	47.5	56.7	73.3
-50°	0.0	11.0	18.2	20.5	23.4	26.8	30.6	36.5	43.7	52.5	64.8
-52.5°	0.0	10.4	17.9	20.1	22.7	25.8	29.3	33.8	40.4	48.1	56.3
-55°	0.0	9.8	17.6	19.6	22.0	24.8	28.1	31.2	37.1	43.6	51.3
-57.5°	0.0	9.2	17.4	19.2	21.2	23.9	26.8	29.7	33.7	39.5	46.1
-60°	0.0	8.5	17.1	18.8	20.4	22.9	25.5	28.2	30.5	35.4	41.1
-62.5°	0.0	7.9	15.8	18.4	19.9	21.8	24.2	26.6	28.7	31.2	36.3
-65°	0.0	7.2	14.4	17.9	19.2	20.8	22.9	25.0	26.8	28.7	31.3
-67.5°	0.0	6.5	13.1	17.4	18.6	19.8	21.5	23.4	25.0	26.6	28.1
-70°	0.0	5.8	11.7	17.0	18.0	19.1	20.2	21.8	23.2	24.5	25.8
-72.5°	0.0	5.1	10.3	15.2	17.4	18.3	19.1	20.1	21.4	22.5	23.5
-75°	0.0	4.4	8.8	13.1	16.7	17.5	18.2	18.9	19.6	20.6	21.5
-77.5°	0.0	3.7	7.4	10.9	14.3	16.7	17.2	17.8	18.3	18.8	19.4
-80°	0.0	3.0	5.9	8.8	11.5	14.1	16.2	16.6	17.0	17.4	17.8
-82.5°	0.0	2.2	4.5	6.6	8.6	10.6	12.5	14.3	15.8	16.0	16.2
-85°	0.0	1.5	3.0	4.4	5.8	7.1	8.3	9.5	10.7	11.8	12.8
-87.5°	0.0	0.7	1.5	2.2	2.9	3.5	4.2	4.8	5.4	5.9	6.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS16-1200R-40-70-5L-A

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°	7.3	7.8	8.3	8.7	9.1	9.4	9.8	10.0	10.1	10.2	10.1
85°	14.7	15.6	15.7	15.8	15.7	15.7	15.5	15.4	15.1	14.8	14.5
82.5°	17.3	17.5	17.7	17.9	17.9	17.8	17.7	17.6	17.4	17.3	17.1
80°	19.1	19.4	19.9	20.3	20.5	20.5	20.4	20.3	20.2	20.3	20.6
77.5°	21.1	21.8	22.4	23.1	23.3	23.7	24.0	24.5	25.0	25.5	25.9
75°	23.2	24.1	25.1	26.1	26.9	27.6	28.4	29.7	31.1	32.6	34.1
72.5°	25.6	26.9	28.1	29.4	31.1	32.7	34.5	36.2	38.3	40.5	42.5
70°	28.1	29.6	31.7	33.9	36.2	38.5	41.2	43.9	46.4	49.3	52.5
67.5°	30.8	33.3	35.8	38.7	42.3	45.6	48.7	53.4	57.7	61.6	65.1
65°	34.1	37.0	40.7	44.9	48.9	54.5	60.0	65.2	70.2	74.7	78.7
62.5°	37.3	41.8	46.4	52.0	59.0	65.3	71.4	77.3	82.9	86.9	90.5
60°	41.8	46.9	53.9	62.0	69.3	76.1	82.8	88.2	93.0	97.5	104.3
57.5°	46.5	54.1	63.5	71.9	79.5	86.4	92.1	97.6	105.4	113.3	121.5
55°	52.4	63.1	72.7	81.4	88.8	94.7	101.8	111.4	120.5	131.8	142.7
52.5°	60.4	71.8	81.5	89.9	96.4	104.8	115.4	127.5	140.8	154.3	172.5
50°	68.2	79.7	89.7	96.7	105.7	117.6	132.0	147.6	165.4	185.3	206.8
47.5°	75.6	87.7	95.8	104.5	117.6	133.4	151.4	171.8	193.4	219.8	243.8
45°	83.0	94.0	101.9	115.4	131.5	151.5	174.9	196.9	228.3	259.1	296.9
42.5°	90.3	99.8	111.4	126.1	148.2	173.9	200.8	232.8	267.3	309.3	370.2
40°	95.8	105.6	121.4	141.8	166.6	199.5	235.2	271.9	313.7	382.1	463.4
37.5°	101.0	114.5	132.4	157.8	191.3	229.8	270.6	319.5	385.4	467.6	577.4
35°	106.1	123.1	147.2	177.9	216.6	263.1	315.2	380.8	478.6	582.1	691.3
32.5°	112.6	131.3	161.9	200.7	246.7	299.2	360.6	473.4	604.3	725.9	809.0
30°	119.8	144.0	178.2	222.9	276.5	342.1	440.5	579.9	753.2	902.8	1003.8
27.5°	126.8	156.8	197.6	247.9	307.8	386.2	545.7	730.4	932.8	1112.3	1247.2
25°	133.4	168.6	216.2	273.2	347.3	472.1	677.8	922.9	1144.9	1372.5	1575.0
22.5°	141.5	179.6	232.6	297.4	386.7	580.7	858.5	1169.7	1464.4	1699.1	1969.2
20°	150.5	193.1	250.0	321.7	427.5	696.8	1053.4	1454.2	1862.9	2296.2	2811.8
17.5°	158.7	205.5	267.7	357.8	525.4	849.8	1267.0	1767.0	2316.3	3060.9	4188.3
15°	166.0	216.6	284.0	396.4	637.5	1046.4	1571.0	2173.8	2920.8	4070.9	5822.9
12.5°	172.4	226.4	298.6	436.5	751.7	1249.1	1912.4	2721.1	3829.2	5471.2	9066.5
10°	177.8	234.9	311.5	476.5	864.5	1452.4	2270.8	3311.8	4900.0	7079.8	12163.1
7.5°	186.5	243.6	323.6	515.0	972.3	1650.1	2633.0	3923.0	6024.2	8642.8	14919.0
5°	195.0	252.4	339.9	568.8	1086.8	1853.4	2990.7	4529.3	7150.5	10127.6	17305.7
2.5°	202.7	259.6	354.4	621.9	1198.3	2066.9	3347.7	5087.0	8095.1	11490.2	19460.9
0°	209.4	265.2	366.6	668.8	1293.1	2254.6	3662.2	5582.4	8897.0	12707.0	21344.5
-2.5°	215.4	272.7	382.6	702.0	1335.8	2354.3	3834.3	5902.2	9276.2	13333.8	22481.4
-5°	220.2	278.7	394.9	724.1	1356.3	2411.7	3940.6	6117.7	9445.0	13661.3	22908.7
-7.5°	223.5	283.2	403.0	729.7	1328.3	2339.6	3832.7	5976.1	9218.1	13566.9	22519.7
-10°	224.2	283.5	407.3	700.7	1241.3	2175.1	3616.2	5711.4	8807.4	13135.4	21367.7
-12.5°	217.8	279.1	404.4	666.1	1140.3	1975.1	3320.6	5317.5	8208.0	12329.9	19329.5
-15°	210.1	272.2	392.9	627.3	1027.9	1741.2	2942.6	4788.3	7427.5	11147.5	16319.2
-17.5°	201.0	262.3	371.7	586.1	906.3	1475.4	2482.1	4152.9	6608.2	10028.5	14711.4
-20°	190.5	249.4	340.0	543.6	789.9	1246.8	2126.7	3602.8	5793.7	8827.6	12855.6



REPORT NUMBER: P1306509 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-40-70-5L-A

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	178.7	233.2	309.4	505.2	705.5	1065.4	1762.5	2960.3	4799.5	7403.7	10972.2
-25°	167.9	218.9	290.3	432.3	613.6	869.7	1356.4	2274.6	3861.3	6212.3	9298.3
-27.5°	158.8	203.2	262.7	360.9	520.0	689.7	1071.6	1799.8	3033.0	4858.9	7483.7
-30°	149.5	185.5	233.6	301.0	437.0	584.9	832.7	1305.9	2216.8	3740.0	5851.4
-32.5°	139.6	168.2	210.4	267.7	361.0	480.2	621.0	984.1	1640.9	2636.0	4260.7
-35°	130.8	156.7	190.5	233.2	292.5	394.6	510.9	697.8	1098.4	1869.0	3072.2
-37.5°	124.3	144.9	171.1	204.1	253.9	322.6	400.8	519.0	763.6	1194.5	2139.3
-40°	117.6	132.9	156.4	183.6	216.2	266.5	330.3	396.2	504.8	840.3	1333.7
-42.5°	110.5	125.3	143.1	163.9	191.1	227.5	268.4	318.8	389.1	543.4	883.6
-45°	100.9	117.8	130.5	149.1	169.7	195.0	229.2	262.5	313.5	385.0	550.5
-47.5°	90.8	109.3	122.4	134.2	151.2	171.2	194.5	226.2	260.3	305.8	351.4
-50°	80.6	97.9	113.8	123.4	135.2	150.2	168.6	192.3	221.0	251.9	289.0
-52.5°	70.8	85.9	101.5	114.0	122.6	133.1	147.1	165.0	186.6	209.7	237.4
-55°	60.6	74.5	88.2	101.7	112.5	120.0	129.4	143.1	157.0	176.5	195.3
-57.5°	53.2	63.0	75.5	87.7	99.4	109.3	116.5	124.1	135.8	148.3	161.3
-60°	47.4	53.8	62.9	74.1	84.8	94.8	103.8	110.9	117.8	125.0	135.5
-62.5°	41.6	47.4	53.2	60.5	70.4	79.6	88.0	95.7	102.8	108.9	114.9
-65°	36.0	41.0	46.1	51.3	56.3	64.4	72.2	79.3	85.9	92.0	97.7
-67.5°	30.3	34.7	39.1	43.6	48.1	52.4	56.7	63.4	69.4	74.8	79.7
-70°	27.2	28.7	32.1	35.9	39.8	43.5	47.1	50.8	54.4	58.2	62.7
-72.5°	24.7	25.9	27.2	28.4	31.6	35.0	38.0	40.7	43.6	46.5	49.3
-75°	22.3	23.2	24.2	25.2	26.3	27.6	29.4	32.0	34.3	36.5	38.5
-77.5°	20.1	20.8	21.5	22.1	22.5	23.3	24.2	25.3	26.5	27.7	29.0
-80°	18.1	18.5	18.9	19.4	19.6	19.8	19.9	20.0	20.1	20.5	21.1
-82.5°	16.4	16.6	16.8	16.9	16.9	16.8	16.7	16.7	16.8	16.9	16.9
-85°	13.8	14.7	14.7	14.8	14.8	14.7	14.6	14.5	14.3	14.1	14.0
-87.5°	6.9	7.3	7.8	8.1	8.5	8.8	9.1	9.4	9.5	9.5	9.4
-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: P1306509 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-40-70-5L-A

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°	10.1	9.8	9.4	9.1	8.6	8.1	7.6	7.0	6.4	5.5	4.6
85°	14.2	13.6	13.0	12.4	11.8	11.2	10.6	10.0	9.3	9.1	8.9
82.5°	16.9	16.5	16.0	15.6	15.1	15.3	15.6	15.9	16.3	16.5	16.7
80°	20.8	21.0	21.3	21.6	22.0	23.0	24.1	25.1	26.0	26.5	26.9
77.5°	26.7	27.9	29.2	30.4	31.5	32.8	34.0	35.1	36.1	36.6	37.1
75°	35.7	37.4	38.9	40.3	41.7	43.2	44.5	45.8	46.9	47.6	48.2
72.5°	44.4	46.2	48.3	50.8	53.2	55.4	57.5	59.5	61.3	62.6	63.6
70°	55.4	58.1	61.2	64.1	66.8	69.3	72.0	74.4	76.7	78.3	79.5
67.5°	68.4	71.6	75.0	78.0	80.7	83.7	87.1	90.3	93.3	95.3	96.5
65°	82.1	85.0	88.5	92.1	95.7	100.6	105.7	110.4	114.6	117.8	119.7
62.5°	94.0	98.7	104.8	111.0	117.0	123.2	129.5	135.4	140.8	145.1	147.8
60°	110.9	117.2	125.6	134.0	141.7	148.8	158.3	166.9	174.5	180.9	186.0
57.5°	131.2	140.6	150.6	162.9	174.5	185.3	198.2	214.9	233.3	253.6	282.6
55°	156.3	170.8	183.3	198.9	215.9	233.0	254.5	291.0	332.2	376.4	450.5
52.5°	189.3	206.5	222.0	242.2	273.1	303.1	334.9	402.2	477.6	556.4	696.7
50°	227.1	249.3	278.8	309.2	358.1	410.6	460.9	553.3	660.2	768.2	938.2
47.5°	277.0	310.4	361.8	414.8	477.5	548.7	619.3	720.8	835.6	940.7	1084.5
45°	343.3	409.4	474.0	542.7	615.4	700.8	779.4	865.1	969.7	1056.7	1157.6
42.5°	443.8	526.4	606.4	683.9	767.5	850.4	925.5	1004.5	1089.0	1168.3	1252.5
40°	561.5	652.4	735.4	819.4	886.9	964.0	1035.8	1109.5	1204.2	1317.1	1418.3
37.5°	680.6	767.9	844.0	920.3	983.2	1037.0	1157.9	1281.4	1398.6	1674.7	1921.6
35°	799.0	883.5	941.6	1017.9	1109.0	1233.0	1429.9	1763.0	2060.6	2624.0	3186.2
32.5°	921.9	1013.0	1081.9	1197.0	1358.7	1762.0	2048.4	2890.4	3614.4	3893.7	3779.8
30°	1059.1	1179.3	1368.6	1591.1	2187.8	3141.7	3899.6	4244.7	4068.5	3613.0	3638.2
27.5°	1332.8	1502.5	1931.6	3042.7	4548.4	6174.1	6506.1	5628.4	5970.5	4909.7	5646.1
25°	1802.5	2121.5	3894.6	6900.1	9481.4	10530.5	11325.7	10738.9	11498.8	11530.6	12189.4
22.5°	2608.1	4623.7	8103.1	12980.9	16027.0	17656.4	18656.5	19757.0	20955.4	22739.5	23870.3
20°	4154.4	7925.2	15003.1	20193.6	23735.5	26007.8	27839.5	30259.5	33006.8	36361.7	39055.2
17.5°	7607.1	14393.1	22266.7	27871.3	31733.0	35016.9	37901.3	41237.3	45452.3	50738.0	55959.0
15°	11430.4	21450.5	29578.8	35296.4	39693.6	43536.2	47392.3	51419.5	57100.5	65510.2	77782.7
12.5°	16946.7	28231.3	36906.6	42487.9	47283.7	51034.3	54838.9	60092.2	68556.6	81297.5	130223.6
10°	22638.8	34690.3	43205.5	48728.0	53215.2	56888.0	60545.7	66015.7	81836.1	131869.0	229104.8
7.5°	27794.8	40686.5	48960.3	54285.1	58123.4	60989.3	64917.7	75259.5	110606.6	195752.6	367250.5
5°	32447.9	46227.9	54282.5	58907.0	61882.4	64223.5	68379.6	82758.5	141300.5	279877.2	485207.8
2.5°	36027.4	50802.3	59057.0	62841.8	64999.8	66991.5	71271.9	87090.6	155277.4	322929.4	538586.1
0°	38084.1	53665.2	62745.1	66031.2	67799.8	69539.1	74059.5	90520.7	156845.6	302192.4	519123.5
-2.5°	39817.9	56296.2	65999.4	69265.6	70792.8	72155.2	76348.6	91685.9	140698.1	244870.2	443926.3
-5°	40146.3	57493.8	68205.6	72208.3	73704.6	74814.5	77883.4	90153.1	122708.5	180456.0	319618.6
-7.5°	39037.2	57207.8	69605.4	74958.3	76723.7	77805.7	80040.1	87378.1	104969.3	135031.5	214312.1
-10°	36556.6	55347.2	70030.2	77428.0	79999.7	81183.3	82448.7	85312.8	93822.4	110950.5	134275.0
-12.5°	32362.2	51394.2	69235.4	79556.3	82949.0	84476.7	85752.8	87758.4	91183.1	96891.0	110911.4
-15°	27295.6	45720.7	64540.8	77561.8	84306.6	87331.3	89176.0	90124.0	91835.2	95262.8	100687.9
-17.5°	23430.7	38276.5	56841.6	73929.4	84315.0	88692.2	91085.1	92988.0	94208.3	96365.1	98522.5
-20°	18805.8	29522.3	47389.0	65087.8	79029.2	87967.0	91639.4	94013.9	96082.1	97530.9	99164.9



REPORT NUMBER: P1306509 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-40-70-5L-A

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	15780.0	23982.3	36484.9	53774.9	70037.9	81600.0	89862.8	92942.7	95543.1	97123.7	98571.2
-25°	13194.8	18302.7	27639.5	41208.7	57183.4	71413.0	81794.3	89560.1	92736.4	94950.6	96321.1
-27.5°	10846.6	15164.5	20661.7	29973.4	42917.9	56611.8	68898.2	79658.1	85667.4	91103.3	92526.8
-30°	8580.6	12206.5	16622.7	21758.3	30149.4	40076.3	51904.3	62563.0	72004.9	79425.6	83472.6
-32.5°	6688.1	9573.4	13162.3	17180.9	21166.3	27962.8	34450.0	44233.0	52974.5	60666.4	67161.6
-35°	4843.2	7258.0	9979.0	13220.0	16516.1	20111.3	24287.6	29865.7	34877.3	41261.4	47281.7
-37.5°	3406.6	5145.2	7313.2	9684.1	12456.4	15164.0	18058.2	20992.3	23734.3	27683.4	31040.3
-40°	2287.7	3431.4	5006.4	6747.6	8920.8	11016.4	13314.0	15434.1	17460.7	19573.0	21400.5
-42.5°	1383.7	2202.2	3132.3	4447.8	5900.8	7509.4	9298.8	10977.0	12438.7	13884.1	15201.7
-45°	825.6	1289.4	1849.2	2700.1	3564.7	4781.1	5991.4	7095.7	8310.0	9366.1	10243.3
-47.5°	510.4	695.3	1066.2	1496.8	2043.4	2815.2	3568.4	4289.6	5141.8	5902.3	6531.6
-50°	332.0	414.0	585.4	772.0	1120.6	1522.7	1922.8	2387.3	2912.5	3376.8	3747.9
-52.5°	263.4	301.3	341.3	407.9	576.6	759.1	949.3	1226.0	1505.2	1760.4	1957.4
-55°	216.9	239.8	260.9	293.9	330.0	365.0	422.0	565.2	698.1	819.2	912.5
-57.5°	177.9	194.3	211.4	230.8	250.1	269.0	295.3	326.4	356.3	383.1	390.9
-60°	145.7	155.6	169.8	183.8	196.7	208.6	227.1	245.3	262.0	276.0	284.0
-62.5°	120.7	128.1	137.2	146.4	155.3	165.0	177.1	189.3	201.4	212.6	221.9
-65°	102.8	107.5	112.7	117.9	123.2	130.5	138.3	145.8	152.8	159.2	165.0
-67.5°	84.4	88.7	92.7	96.4	100.1	104.2	108.7	113.2	117.4	121.2	124.3
-70°	66.8	70.4	73.3	75.9	78.7	81.6	84.7	87.5	89.9	91.8	93.2
-72.5°	51.8	54.2	56.6	59.4	61.6	63.7	65.7	67.4	68.9	70.0	70.7
-75°	40.4	42.5	44.6	46.5	48.2	49.8	51.2	52.6	53.8	54.5	55.1
-77.5°	30.4	32.0	33.5	34.9	36.3	37.6	38.7	39.6	40.5	40.9	41.2
-80°	21.8	22.8	23.7	24.6	25.4	26.3	27.2	28.0	28.7	29.0	29.2
-82.5°	16.9	16.9	17.0	17.2	17.3	17.5	17.6	17.8	18.0	18.3	18.5
-85°	13.8	13.6	13.2	12.9	12.6	12.0	11.4	10.8	10.2	10.2	10.2
-87.5°	9.3	9.2	9.1	8.9	8.6	8.1	7.6	7.0	6.4	5.8	5.1
-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: P1306509 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-40-70-5L-A

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°	3.7	2.8	2.8	2.8	2.8	2.8	3.7	4.6	5.5	6.4	7.0
85°	8.7	8.5	8.5	8.5	8.5	8.5	8.7	8.9	9.1	9.3	10.0
82.5°	16.9	17.0	17.1	17.1	17.1	17.0	16.9	16.7	16.5	16.3	15.9
80°	27.1	27.3	27.5	27.5	27.5	27.3	27.1	26.9	26.5	26.0	25.1
77.5°	37.4	37.7	37.4	36.9	37.4	37.7	37.4	37.1	36.6	36.1	35.1
75°	48.7	49.0	49.7	50.2	49.7	49.0	48.7	48.2	47.6	46.9	45.8
72.5°	64.4	65.0	65.7	66.3	65.7	65.0	64.4	63.6	62.6	61.3	59.5
70°	80.4	81.0	81.4	81.5	81.4	81.0	80.4	79.5	78.3	76.7	74.4
67.5°	97.4	97.9	98.3	98.5	98.3	97.9	97.4	96.5	95.3	93.3	90.3
65°	121.2	122.2	122.8	123.1	122.8	122.2	121.2	119.7	117.8	114.6	110.4
62.5°	149.8	151.2	150.5	148.7	150.5	151.2	149.8	147.8	145.1	140.8	135.4
60°	190.3	193.7	194.7	194.2	194.7	193.7	190.3	186.0	180.9	174.5	166.9
57.5°	313.4	344.2	359.6	364.7	359.6	344.2	313.4	282.6	253.6	233.3	214.9
55°	531.0	612.7	664.8	694.4	664.8	612.7	531.0	450.5	376.4	332.2	291.0
52.5°	862.4	1032.4	1155.7	1236.2	1155.7	1032.4	862.4	696.7	556.4	477.6	402.2
50°	1143.2	1345.0	1477.7	1544.1	1477.7	1345.0	1143.2	938.2	768.2	660.2	553.3
47.5°	1274.1	1456.7	1581.8	1645.5	1581.8	1456.7	1274.1	1084.5	940.7	835.6	720.8
45°	1315.8	1464.4	1569.3	1619.9	1569.3	1464.4	1315.8	1157.6	1056.7	969.7	865.1
42.5°	1363.0	1450.8	1502.7	1510.9	1502.7	1450.8	1363.0	1252.5	1168.3	1089.0	1004.5
40°	1532.9	1642.5	1727.6	1763.9	1727.6	1642.5	1532.9	1418.3	1317.1	1204.2	1109.5
37.5°	2144.4	2327.6	2450.7	2472.4	2450.7	2327.6	2144.4	1921.6	1674.7	1398.6	1281.4
35°	3659.4	4037.1	4307.0	4460.8	4307.0	4037.1	3659.4	3186.2	2624.0	2060.6	1763.0
32.5°	3645.8	3565.3	3518.0	3504.0	3518.0	3565.3	3645.8	3779.8	3893.7	3614.4	2890.4
30°	3337.3	3236.5	3112.4	3108.1	3112.4	3236.5	3337.3	3638.2	3613.0	4068.5	4244.7
27.5°	5473.1	5311.5	4898.8	4930.7	4898.8	5311.5	5473.1	5646.1	4909.7	5970.5	5628.4
25°	12753.7	12811.1	12478.2	11477.4	12478.2	12811.1	12753.7	12189.4	11530.6	11498.8	10738.9
22.5°	25324.7	26042.9	27109.8	27334.2	27109.8	26042.9	25324.7	23870.3	22739.5	20955.4	19757.0
20°	42177.3	44177.9	46917.1	47821.4	46917.1	44177.9	42177.3	39055.2	36361.7	33006.8	30259.5
17.5°	64052.3	70486.6	75910.4	75828.1	75910.4	70486.6	64052.3	55959.0	50738.0	45452.3	41237.3
15°	105651.2	132906.7	153638.7	161704.3	153638.7	132906.7	105651.2	77782.7	65510.2	57100.5	51419.5
12.5°	194209.6	273569.1	326342.4	360907.7	326342.4	273569.1	194209.6	130223.6	81297.5	68556.6	60092.2
10°	370739.0	492996.7	557531.3	591375.6	557531.3	492996.7	370739.0	229104.8	131869.0	81836.1	66015.7
7.5°	541790.5	632521.4	675797.9	686305.1	675797.9	632521.4	541790.5	367250.5	195752.6	110606.6	75259.5
5°	632797.6	689071.2	697077.9	698962.8	697077.9	689071.2	632797.6	485207.8	279877.2	141300.5	82758.5
2.5°	667229.2	691267.9	687214.9	685074.5	687214.9	691267.9	667229.2	538586.1	322929.4	155277.4	87090.6
0°	657211.2	687184.1	678042.7	675326.8	678042.7	687184.1	657211.2	519123.5	302192.4	156845.6	90520.7
-2.5°	604920.1	666110.7	670069.3	669604.6	670069.3	666110.7	604920.1	443926.3	244870.2	140698.1	91685.9
-5°	503862.6	600985.5	633392.8	641653.3	633392.8	600985.5	503862.6	319618.6	180456.0	122708.5	90153.1
-7.5°	352511.5	469800.8	527975.3	546020.6	527975.3	469800.8	352511.5	214312.1	135031.5	104969.3	87378.1
-10°	195772.6	289627.9	354084.7	379014.7	354084.7	289627.9	195772.6	134275.0	110950.5	93822.4	85312.8
-12.5°	126868.5	154097.5	179771.4	189215.2	179771.4	154097.5	126868.5	110911.4	96891.0	91183.1	87758.4
-15°	109525.7	117876.6	123038.3	124729.4	123038.3	117876.6	109525.7	100687.9	95262.8	91835.2	90124.0
-17.5°	102576.0	105633.5	107825.6	109798.2	107825.6	105633.5	102576.0	98522.5	96365.1	94208.3	92988.0
-20°	100836.5	102683.0	103559.7	104386.3	103559.7	102683.0	100836.5	99164.9	97530.9	96082.1	94013.9



REPORT NUMBER: P1306509 (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°	99599.9	100697.0	101495.1	102377.0	101495.1	100697.0	99599.9	98571.2	97123.7	95543.1	92942.7
-25°	97272.4	98131.7	98783.1	99551.3	98783.1	98131.7	97272.4	96321.1	94950.6	92736.4	89560.1
-27.5°	93627.1	94460.3	94937.1	95568.8	94937.1	94460.3	93627.1	92526.8	91103.3	85667.4	79658.1
-30°	86524.5	88636.3	89864.6	91151.6	89864.6	88636.3	86524.5	83472.6	79425.6	72004.9	62563.0
-32.5°	72080.9	75358.0	77337.8	78412.4	77337.8	75358.0	72080.9	67161.6	60666.4	52974.5	44233.0
-35°	51872.1	54848.6	56692.1	58418.8	56692.1	54848.6	51872.1	47281.7	41261.4	34877.3	29865.7
-37.5°	33623.0	35387.5	36504.0	37286.5	36504.0	35387.5	33623.0	31040.3	27683.4	23734.3	20992.3
-40°	23025.7	24303.7	25115.8	25307.9	25115.8	24303.7	23025.7	21400.5	19573.0	17460.7	15434.1
-42.5°	16518.1	17631.0	18372.3	18591.6	18372.3	17631.0	16518.1	15201.7	13884.1	12438.7	10977.0
-45°	11029.0	11676.0	12064.8	12125.4	12064.8	11676.0	11029.0	10243.3	9366.1	8310.0	7095.7
-47.5°	7010.4	7367.3	7602.3	7712.9	7602.3	7367.3	7010.4	6531.6	5902.3	5141.8	4289.6
-50°	4035.8	4253.4	4406.7	4492.1	4406.7	4253.4	4035.8	3747.9	3376.8	2912.5	2387.3
-52.5°	2108.1	2218.5	2292.4	2329.4	2292.4	2218.5	2108.1	1957.4	1760.4	1505.2	1226.0
-55°	991.6	1055.1	1087.1	1090.3	1087.1	1055.1	991.6	912.5	819.2	698.1	565.2
-57.5°	393.2	390.8	389.5	387.4	389.5	390.8	393.2	390.9	383.1	356.3	326.4
-60°	289.5	292.9	296.5	299.3	296.5	292.9	289.5	284.0	276.0	262.0	245.3
-62.5°	230.0	237.0	240.3	241.6	240.3	237.0	230.0	221.9	212.6	201.4	189.3
-65°	170.3	174.8	176.6	177.1	176.6	174.8	170.3	165.0	159.2	152.8	145.8
-67.5°	127.1	129.3	130.4	130.7	130.4	129.3	127.1	124.3	121.2	117.4	113.2
-70°	94.3	95.0	95.5	95.7	95.5	95.0	94.3	93.2	91.8	89.9	87.5
-72.5°	71.3	71.6	71.9	72.0	71.9	71.6	71.3	70.7	70.0	68.9	67.4
-75°	55.4	55.6	55.8	55.9	55.8	55.6	55.4	55.1	54.5	53.8	52.6
-77.5°	41.4	41.5	41.6	41.7	41.6	41.5	41.4	41.2	40.9	40.5	39.6
-80°	29.3	29.2	29.4	29.4	29.4	29.2	29.3	29.2	29.0	28.7	28.0
-82.5°	18.7	18.8	18.9	18.9	18.9	18.8	18.7	18.5	18.3	18.0	17.8
-85°	10.3	10.3	10.4	10.4	10.4	10.3	10.3	10.2	10.2	10.2	10.8
-87.5°	4.5	3.8	3.8	3.8	3.8	3.8	4.5	5.1	5.8	6.4	7.0
-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):

	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°	7.6	8.1	8.6	9.1	9.4	9.8	10.1	10.1	10.2	10.1	10.0
85°	10.6	11.2	11.8	12.4	13.0	13.6	14.2	14.5	14.8	15.1	15.4
82.5°	15.6	15.3	15.1	15.6	16.0	16.5	16.9	17.1	17.3	17.4	17.6
80°	24.1	23.0	22.0	21.6	21.3	21.0	20.8	20.6	20.3	20.2	20.3
77.5°	34.0	32.8	31.5	30.4	29.2	27.9	26.7	25.9	25.5	25.0	24.5
75°	44.5	43.2	41.7	40.3	38.9	37.4	35.7	34.1	32.6	31.1	29.7
72.5°	57.5	55.4	53.2	50.8	48.3	46.2	44.4	42.5	40.5	38.3	36.2
70°	72.0	69.3	66.8	64.1	61.2	58.1	55.4	52.5	49.3	46.4	43.9
67.5°	87.1	83.7	80.7	78.0	75.0	71.6	68.4	65.1	61.6	57.7	53.4
65°	105.7	100.6	95.7	92.1	88.5	85.0	82.1	78.7	74.7	70.2	65.2
62.5°	129.5	123.2	117.0	111.0	104.8	98.7	94.0	90.5	86.9	82.9	77.3
60°	158.3	148.8	141.7	134.0	125.6	117.2	110.9	104.3	97.5	93.0	88.2
57.5°	198.2	185.3	174.5	162.9	150.6	140.6	131.2	121.5	113.3	105.4	97.6
55°	254.5	233.0	215.9	198.9	183.3	170.8	156.3	142.7	131.8	120.5	111.4
52.5°	334.9	303.1	273.1	242.2	222.0	206.5	189.3	172.5	154.3	140.8	127.5
50°	460.9	410.6	358.1	309.2	278.8	249.3	227.1	206.8	185.3	165.4	147.6
47.5°	619.3	548.7	477.5	414.8	361.8	310.4	277.0	243.8	219.8	193.4	171.8
45°	779.4	700.8	615.4	542.7	474.0	409.4	343.3	296.9	259.1	228.3	196.9
42.5°	925.5	850.4	767.5	683.9	606.4	526.4	443.8	370.2	309.3	267.3	232.8
40°	1035.8	964.0	886.9	819.4	735.4	652.4	561.5	463.4	382.1	313.7	271.9
37.5°	1157.9	1037.0	983.2	920.3	844.0	767.9	680.6	577.4	467.6	385.4	319.5
35°	1429.9	1233.0	1109.0	1017.9	941.6	883.5	799.0	691.3	582.1	478.6	380.8
32.5°	2048.4	1762.0	1358.7	1197.0	1081.9	1013.0	921.9	809.0	725.9	604.3	473.4
30°	3899.6	3141.7	2187.8	1591.1	1368.6	1179.3	1059.1	1003.8	902.8	753.2	579.9
27.5°	6506.1	6174.1	4548.4	3042.7	1931.6	1502.5	1332.8	1247.2	1112.3	932.8	730.4
25°	11325.7	10530.5	9481.4	6900.1	3894.6	2121.5	1802.5	1575.0	1372.5	1144.9	922.9
22.5°	18656.5	17656.4	16027.0	12980.9	8103.1	4623.7	2608.1	1969.2	1699.1	1464.4	1169.7
20°	27839.5	26007.8	23735.5	20193.6	15003.1	7925.2	4154.4	2811.8	2296.2	1862.9	1454.2
17.5°	37901.3	35016.9	31733.0	27871.3	22266.7	14393.1	7607.1	4188.3	3060.9	2316.3	1767.0
15°	47392.3	43536.2	39693.6	35296.4	29578.8	21450.5	11430.4	5822.9	4070.9	2920.8	2173.8
12.5°	54838.9	51034.3	47283.7	42487.9	36906.6	28231.3	16946.7	9066.5	5471.2	3829.2	2721.1
10°	60545.7	56888.0	53215.2	48728.0	43205.5	34690.3	22638.8	12163.1	7079.8	4900.0	3311.8
7.5°	64917.7	60989.3	58123.4	54285.1	48960.3	40686.5	27794.8	14919.0	8642.8	6024.2	3923.0
5°	68379.6	64223.5	61882.4	58907.0	54282.5	46227.9	32447.9	17305.7	10127.6	7150.5	4529.3
2.5°	71271.9	66991.5	64999.8	62841.8	59057.0	50802.3	36027.4	19460.9	11490.2	8095.1	5087.0
0°	74059.5	69539.1	67799.8	66031.2	62745.1	53665.2	38084.1	21344.5	12707.0	8897.0	5582.4
-2.5°	76348.6	72155.2	70792.8	69265.6	65999.4	56296.2	39817.9	22481.4	13333.8	9276.2	5902.2
-5°	77883.4	74814.5	73704.6	72208.3	68205.6	57493.8	40146.3	22908.7	13661.3	9445.0	6117.7
-7.5°	80040.1	77805.7	76723.7	74958.3	69605.4	57207.8	39037.2	22519.7	13566.9	9218.1	5976.1
-10°	82448.7	81183.3	79999.7	77428.0	70030.2	55347.2	36556.6	21367.7	13135.4	8807.4	5711.4
-12.5°	85752.8	84476.7	82949.0	79556.3	69235.4	51394.2	32362.2	19329.5	12329.9	8208.0	5317.5
-15°	89176.0	87331.3	84306.6	77561.8	64540.8	45720.7	27295.6	16319.2	11147.5	7427.5	4788.3
-17.5°	91085.1	88692.2	84315.0	73929.4	56841.6	38276.5	23430.7	14711.4	10028.5	6608.2	4152.9
-20°	91639.4	87967.0	79029.2	65087.8	47389.0	29522.3	18805.8	12855.6	8827.6	5793.7	3602.8



REPORT NUMBER: P1306509 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-40-70-5L-A

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	89862.8	81600.0	70037.9	53774.9	36484.9	23982.3	15780.0	10972.2	7403.7	4799.5	2960.3
-25°	81794.3	71413.0	57183.4	41208.7	27639.5	18302.7	13194.8	9298.3	6212.3	3861.3	2274.6
-27.5°	68898.2	56611.8	42917.9	29973.4	20661.7	15164.5	10846.6	7483.7	4858.9	3033.0	1799.8
-30°	51904.3	40076.3	30149.4	21758.3	16622.7	12206.5	8580.6	5851.4	3740.0	2216.8	1305.9
-32.5°	34450.0	27962.8	21166.3	17180.9	13162.3	9573.4	6688.1	4260.7	2636.0	1640.9	984.1
-35°	24287.6	20111.3	16516.1	13220.0	9979.0	7258.0	4843.2	3072.2	1869.0	1098.4	697.8
-37.5°	18058.2	15164.0	12456.4	9684.1	7313.2	5145.2	3406.6	2139.3	1194.5	763.6	519.0
-40°	13314.0	11016.4	8920.8	6747.6	5006.4	3431.4	2287.7	1333.7	840.3	504.8	396.2
-42.5°	9298.8	7509.4	5900.8	4447.8	3132.3	2202.2	1383.7	883.6	543.4	389.1	318.8
-45°	5991.4	4781.1	3564.7	2700.1	1849.2	1289.4	825.6	550.5	385.0	313.5	262.5
-47.5°	3568.4	2815.2	2043.4	1496.8	1066.2	695.3	510.4	351.4	305.8	260.3	226.2
-50°	1922.8	1522.7	1120.6	772.0	585.4	414.0	332.0	289.0	251.9	221.0	192.3
-52.5°	949.3	759.1	576.6	407.9	341.3	301.3	263.4	237.4	209.7	186.6	165.0
-55°	422.0	365.0	330.0	293.9	260.9	239.8	216.9	195.3	176.5	157.0	143.1
-57.5°	295.3	269.0	250.1	230.8	211.4	194.3	177.9	161.3	148.3	135.8	124.1
-60°	227.1	208.6	196.7	183.8	169.8	155.6	145.7	135.5	125.0	117.8	110.9
-62.5°	177.1	165.0	155.3	146.4	137.2	128.1	120.7	114.9	108.9	102.8	95.7
-65°	138.3	130.5	123.2	117.9	112.7	107.5	102.8	97.7	92.0	85.9	79.3
-67.5°	108.7	104.2	100.1	96.4	92.7	88.7	84.4	79.7	74.8	69.4	63.4
-70°	84.7	81.6	78.7	75.9	73.3	70.4	66.8	62.7	58.2	54.4	50.8
-72.5°	65.7	63.7	61.6	59.4	56.6	54.2	51.8	49.3	46.5	43.6	40.7
-75°	51.2	49.8	48.2	46.5	44.6	42.5	40.4	38.5	36.5	34.3	32.0
-77.5°	38.7	37.6	36.3	34.9	33.5	32.0	30.4	29.0	27.7	26.5	25.3
-80°	27.2	26.3	25.4	24.6	23.7	22.8	21.8	21.1	20.5	20.1	20.0
-82.5°	17.6	17.5	17.3	17.2	17.0	16.9	16.9	16.9	16.9	16.8	16.7
-85°	11.4	12.0	12.6	12.9	13.2	13.6	13.8	14.0	14.1	14.3	14.5
-87.5°	7.6	8.1	8.6	8.9	9.1	9.2	9.3	9.4	9.5	9.5	9.4
-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: P1306509 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-40-70-5L-A

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°	9.8	9.4	9.1	8.7	8.3	7.8	7.3	6.8	6.3	5.7	5.1
85°	15.5	15.7	15.7	15.8	15.7	15.6	14.7	13.6	12.5	11.3	10.1
82.5°	17.7	17.8	17.9	17.9	17.7	17.5	17.3	17.1	16.9	16.7	15.2
80°	20.4	20.5	20.5	20.3	19.9	19.4	19.1	18.7	18.4	18.0	17.6
77.5°	24.0	23.7	23.3	23.1	22.4	21.8	21.1	20.4	19.8	19.3	18.7
75°	28.4	27.6	26.9	26.1	25.1	24.1	23.2	22.4	21.5	20.6	19.8
72.5°	34.5	32.7	31.1	29.4	28.1	26.9	25.6	24.3	23.3	22.1	21.0
70°	41.2	38.5	36.2	33.9	31.7	29.6	28.1	26.6	25.0	23.7	22.4
67.5°	48.7	45.6	42.3	38.7	35.8	33.3	30.8	28.9	27.1	25.3	23.8
65°	60.0	54.5	48.9	44.9	40.7	37.0	34.1	31.4	29.2	27.1	25.1
62.5°	71.4	65.3	59.0	52.0	46.4	41.8	37.3	34.2	31.3	28.9	26.6
60°	82.8	76.1	69.3	62.0	53.9	46.9	41.8	37.0	33.7	30.7	28.2
57.5°	92.1	86.4	79.5	71.9	63.5	54.1	46.5	40.8	36.1	32.7	29.7
55°	101.8	94.7	88.8	81.4	72.7	63.1	52.4	45.1	38.8	34.7	31.2
52.5°	115.4	104.8	96.4	89.9	81.5	71.8	60.4	49.3	42.6	36.6	32.9
50°	132.0	117.6	105.7	96.7	89.7	79.7	68.2	56.0	46.3	38.9	34.5
47.5°	151.4	133.4	117.6	104.5	95.8	87.7	75.6	62.7	49.9	42.1	36.1
45°	174.9	151.5	131.5	115.4	101.9	94.0	83.0	69.2	55.7	45.4	37.8
42.5°	200.8	173.9	148.2	126.1	111.4	99.8	90.3	75.8	61.2	48.7	40.1
40°	235.2	199.5	166.6	141.8	121.4	105.6	95.8	82.4	66.5	52.4	42.8
37.5°	270.6	229.8	191.3	157.8	132.4	114.5	101.0	88.8	72.1	57.1	45.5
35°	315.2	263.1	216.6	177.9	147.2	123.1	106.1	94.5	77.9	61.7	48.1
32.5°	360.6	299.2	246.7	200.7	161.9	131.3	112.6	99.0	83.3	66.0	50.6
30°	440.5	342.1	276.5	222.9	178.2	144.0	119.8	103.5	88.5	70.1	53.3
27.5°	545.7	386.2	307.8	247.9	197.6	156.8	126.8	107.8	93.4	74.1	56.6
25°	677.8	472.1	347.3	273.2	216.2	168.6	133.4	112.0	97.3	78.1	59.7
22.5°	858.5	580.7	386.7	297.4	232.6	179.6	141.5	117.5	100.7	81.8	62.6
20°	1053.4	696.8	427.5	321.7	250.0	193.1	150.5	122.7	103.9	85.2	65.3
17.5°	1267.0	849.8	525.4	357.8	267.7	205.5	158.7	127.4	106.9	88.2	67.7
15°	1571.0	1046.4	637.5	396.4	284.0	216.6	166.0	131.7	109.7	91.0	69.8
12.5°	1912.4	1249.1	751.7	436.5	298.6	226.4	172.4	135.6	112.2	93.6	71.6
10°	2270.8	1452.4	864.5	476.5	311.5	234.9	177.8	139.9	115.2	96.2	73.2
7.5°	2633.0	1650.1	972.3	515.0	323.6	243.6	186.5	145.5	118.1	98.4	74.5
5°	2990.7	1853.4	1086.8	568.8	339.9	252.4	195.0	150.9	120.7	100.4	75.5
2.5°	3347.7	2066.9	1198.3	621.9	354.4	259.6	202.7	155.8	123.0	102.1	76.3
0°	3662.2	2254.6	1293.1	668.8	366.6	265.2	209.4	160.1	125.0	103.3	76.7
-2.5°	3834.3	2354.3	1335.8	702.0	382.6	272.7	215.4	163.5	126.2	103.6	76.8
-5°	3940.6	2411.7	1356.3	724.1	394.9	278.7	220.2	166.0	126.9	103.5	76.7
-7.5°	3832.7	2339.6	1328.3	729.7	403.0	283.2	223.5	167.5	127.2	102.9	76.2
-10°	3616.2	2175.1	1241.3	700.7	407.3	283.5	224.2	167.9	126.9	101.9	75.4
-12.5°	3320.6	1975.1	1140.3	666.1	404.4	279.1	217.8	164.7	126.0	100.4	74.3
-15°	2942.6	1741.2	1027.9	627.3	392.9	272.2	210.1	159.5	123.8	98.5	72.9
-17.5°	2482.1	1475.4	906.3	586.1	371.7	262.3	201.0	153.7	121.2	96.1	71.1
-20°	2126.7	1246.8	789.9	543.6	340.0	249.4	190.5	147.4	118.2	93.2	69.0



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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°	1762.5	1065.4	705.5	505.2	309.4	233.2	178.7	140.5	114.9	89.9	66.6
-25°	1356.4	869.7	613.6	432.3	290.3	218.9	167.9	133.2	111.3	86.2	63.8
-27.5°	1071.6	689.7	520.0	360.9	262.7	203.2	158.8	128.5	107.1	82.1	60.6
-30°	832.7	584.9	437.0	301.0	233.6	185.5	149.5	123.6	102.0	78.0	57.2
-32.5°	621.0	480.2	361.0	267.7	210.4	168.2	139.6	118.5	96.5	73.7	54.6
-35°	510.9	394.6	292.5	233.2	190.5	156.7	130.8	113.1	90.5	69.0	52.2
-37.5°	400.8	322.6	253.9	204.1	171.1	144.9	124.3	106.3	84.1	64.0	49.6
-40°	330.3	266.5	216.2	183.6	156.4	132.9	117.6	98.4	77.7	58.5	46.9
-42.5°	268.4	227.5	191.1	163.9	143.1	125.3	110.5	90.1	71.1	54.5	44.1
-45°	229.2	195.0	169.7	149.1	130.5	117.8	100.9	81.6	64.0	51.0	41.4
-47.5°	194.5	171.2	151.2	134.2	122.4	109.3	90.8	73.3	56.7	47.5	39.0
-50°	168.6	150.2	135.2	123.4	113.8	97.9	80.6	64.8	52.5	43.7	36.5
-52.5°	147.1	133.1	122.6	114.0	101.5	85.9	70.8	56.3	48.1	40.4	33.8
-55°	129.4	120.0	112.5	101.7	88.2	74.5	60.6	51.3	43.6	37.1	31.2
-57.5°	116.5	109.3	99.4	87.7	75.5	63.0	53.2	46.1	39.5	33.7	29.7
-60°	103.8	94.8	84.8	74.1	62.9	53.8	47.4	41.1	35.4	30.5	28.2
-62.5°	88.0	79.6	70.4	60.5	53.2	47.4	41.6	36.3	31.2	28.7	26.6
-65°	72.2	64.4	56.3	51.3	46.1	41.0	36.0	31.3	28.7	26.8	25.0
-67.5°	56.7	52.4	48.1	43.6	39.1	34.7	30.3	28.1	26.6	25.0	23.4
-70°	47.1	43.5	39.8	35.9	32.1	28.7	27.2	25.8	24.5	23.2	21.8
-72.5°	38.0	35.0	31.6	28.4	27.2	25.9	24.7	23.5	22.5	21.4	20.1
-75°	29.4	27.6	26.3	25.2	24.2	23.2	22.3	21.5	20.6	19.6	18.9
-77.5°	24.2	23.3	22.5	22.1	21.5	20.8	20.1	19.4	18.8	18.3	17.8
-80°	19.9	19.8	19.6	19.4	18.9	18.5	18.1	17.8	17.4	17.0	16.6
-82.5°	16.7	16.8	16.9	16.9	16.8	16.6	16.4	16.2	16.0	15.8	14.3
-85°	14.6	14.7	14.8	14.8	14.7	14.7	13.8	12.8	11.8	10.7	9.5
-87.5°	9.1	8.8	8.5	8.1	7.8	7.3	6.9	6.4	5.9	5.4	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



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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°	4.4	3.7	3.0	2.2	1.5	0.7	0.0
85°	8.8	7.4	5.9	4.5	3.0	1.5	0.0
82.5°	13.2	11.1	8.9	6.7	4.5	2.2	0.0
80°	17.2	14.7	11.8	8.9	5.9	3.0	0.0
77.5°	18.2	17.4	14.7	11.1	7.4	3.7	0.0
75°	19.1	18.2	17.2	13.2	8.8	4.4	0.0
72.5°	20.0	18.9	17.8	15.4	10.3	5.1	0.0
70°	21.0	19.7	18.4	17.2	11.7	5.8	0.0
67.5°	22.1	20.4	19.0	17.6	13.1	6.5	0.0
65°	23.3	21.3	19.6	18.1	14.4	7.2	0.0
62.5°	24.4	22.2	20.2	18.5	15.8	7.9	0.0
60°	25.5	23.1	20.8	18.9	17.1	8.5	0.0
57.5°	26.8	24.0	21.5	19.4	17.4	9.2	0.0
55°	28.1	24.9	22.2	19.8	17.6	9.8	0.0
52.5°	29.3	25.8	22.9	20.1	17.9	10.4	0.0
50°	30.6	26.8	23.5	20.5	18.2	11.0	0.0
47.5°	31.8	27.9	24.1	20.9	18.4	11.6	0.0
45°	33.2	28.9	24.7	21.4	18.6	12.1	0.0
42.5°	34.6	29.8	25.3	21.8	18.9	12.6	0.0
40°	35.9	30.8	26.0	22.2	19.1	13.1	0.0
37.5°	37.1	31.7	26.7	22.6	19.3	13.6	0.0
35°	38.3	32.6	27.4	23.0	19.5	14.0	0.0
32.5°	39.8	33.6	28.0	23.3	19.6	14.4	0.0
30°	41.8	34.5	28.6	23.7	19.8	14.8	0.0
27.5°	43.7	35.3	29.2	24.0	20.0	15.2	0.0
25°	45.5	36.1	29.7	24.2	20.1	15.5	0.0
22.5°	47.1	36.9	30.2	24.5	20.2	15.8	0.0
20°	48.7	37.6	30.6	24.7	20.4	16.1	0.0
17.5°	50.0	38.2	31.0	24.9	20.5	16.3	0.0
15°	51.2	38.7	31.3	25.1	20.5	16.5	0.0
12.5°	52.2	39.2	31.6	25.3	20.6	16.7	0.0
10°	53.1	39.7	31.8	25.4	20.7	16.8	0.0
7.5°	53.8	40.0	32.0	25.5	20.7	17.0	0.0
5°	54.3	40.3	32.1	25.5	20.8	17.0	0.0
2.5°	54.7	40.6	32.2	25.6	20.8	17.1	0.0
0°	54.9	40.7	32.2	25.6	20.8	17.1	0.0
-2.5°	55.0	40.8	32.2	25.6	20.8	17.1	0.0
-5°	54.8	40.8	32.1	25.5	20.8	17.0	0.0
-7.5°	54.6	40.6	32.0	25.5	20.7	17.0	0.0
-10°	54.1	40.5	31.8	25.4	20.7	16.8	0.0
-12.5°	53.5	40.2	31.6	25.3	20.6	16.7	0.0
-15°	52.7	39.8	31.3	25.1	20.5	16.5	0.0
-17.5°	51.8	39.3	31.0	24.9	20.5	16.3	0.0
-20°	50.7	38.7	30.6	24.7	20.4	16.1	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	49.4	38.0	30.2	24.5	20.2	15.8	0.0
-25°	47.9	37.2	29.7	24.2	20.1	15.5	0.0
-27.5°	46.3	36.2	29.2	24.0	20.0	15.2	0.0
-30°	44.5	35.2	28.6	23.7	19.8	14.8	0.0
-32.5°	42.6	34.1	28.0	23.3	19.6	14.4	0.0
-35°	41.0	32.8	27.4	23.0	19.5	14.0	0.0
-37.5°	39.4	31.7	26.7	22.6	19.3	13.6	0.0
-40°	37.7	30.8	26.0	22.2	19.1	13.1	0.0
-42.5°	35.9	29.8	25.3	21.8	18.9	12.6	0.0
-45°	34.0	28.9	24.7	21.3	18.6	12.1	0.0
-47.5°	31.9	27.9	24.1	20.9	18.4	11.6	0.0
-50°	30.6	26.8	23.4	20.5	18.2	11.0	0.0
-52.5°	29.3	25.8	22.7	20.1	17.9	10.4	0.0
-55°	28.1	24.8	22.0	19.6	17.6	9.8	0.0
-57.5°	26.8	23.9	21.2	19.2	17.4	9.2	0.0
-60°	25.5	22.9	20.4	18.8	17.1	8.5	0.0
-62.5°	24.2	21.8	19.9	18.4	15.8	7.9	0.0
-65°	22.9	20.8	19.2	17.9	14.4	7.2	0.0
-67.5°	21.5	19.8	18.6	17.4	13.1	6.5	0.0
-70°	20.2	19.1	18.0	17.0	11.7	5.8	0.0
-72.5°	19.1	18.3	17.4	15.2	10.3	5.1	0.0
-75°	18.2	17.5	16.7	13.1	8.8	4.4	0.0
-77.5°	17.2	16.7	14.3	10.9	7.4	3.7	0.0
-80°	16.2	14.1	11.5	8.8	5.9	3.0	0.0
-82.5°	12.5	10.6	8.6	6.6	4.5	2.2	0.0
-85°	8.3	7.1	5.8	4.4	3.0	1.5	0.0
-87.5°	4.2	3.5	2.9	2.2	1.5	0.7	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)