

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: P699933 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-70-1L-S**

Issue Date: 8/10/2023

Test Information

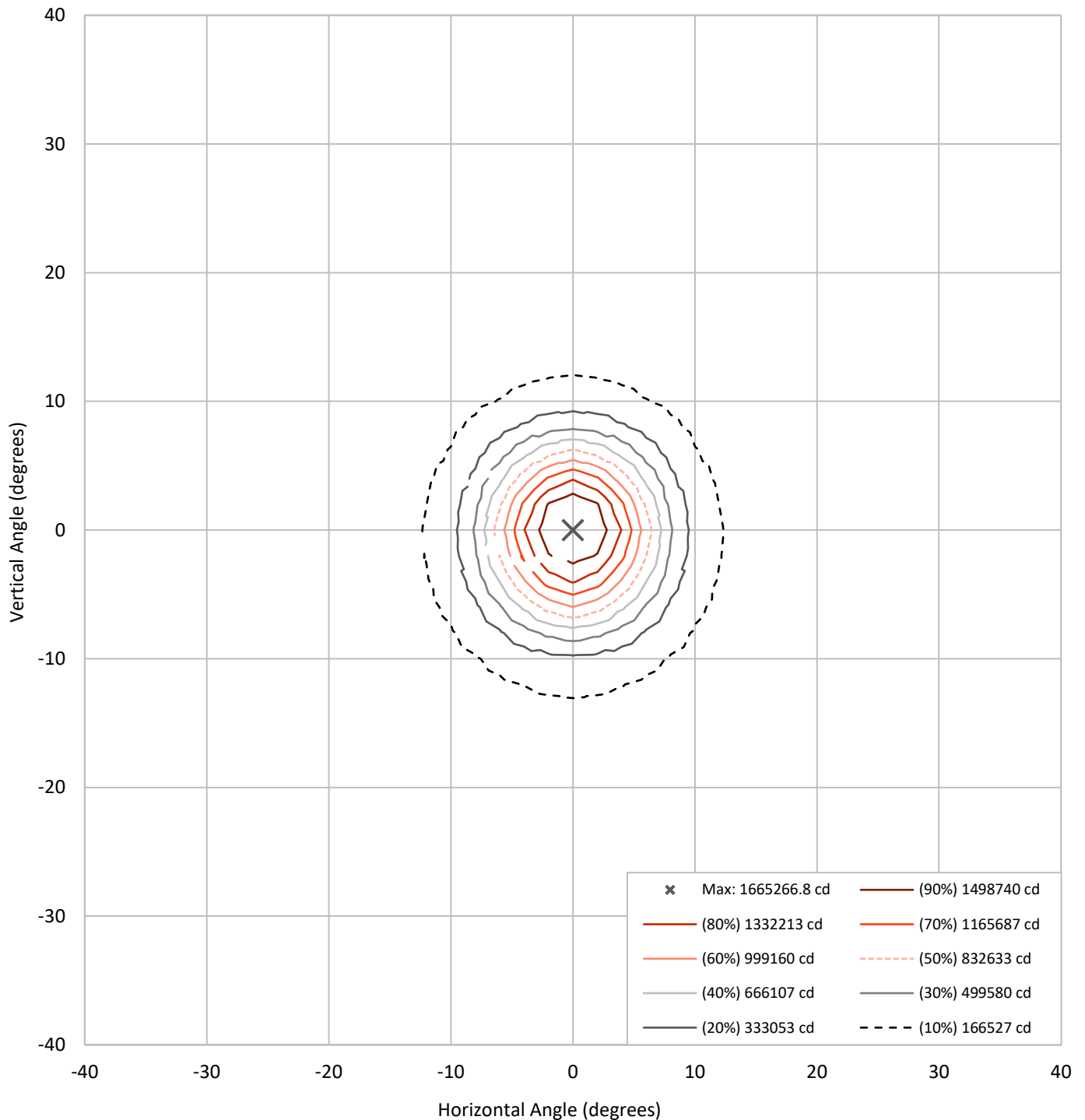
Test Method: LM-79-08
Report Number: P699933 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-52)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200R-40-70-1L-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 70 CRI LEDS AND 1L BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	172934.9 lumens	Max Intensity:	1665266.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	134.2 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	12.8°H x 13°V	Field Angle (10%):	24.4°H x 24.6°V
Beam Lumens:	42866.1 lumens	Field Lumens:	86111 lumens
Beam Efficiency:	24.8%	Field Efficiency:	49.8%
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





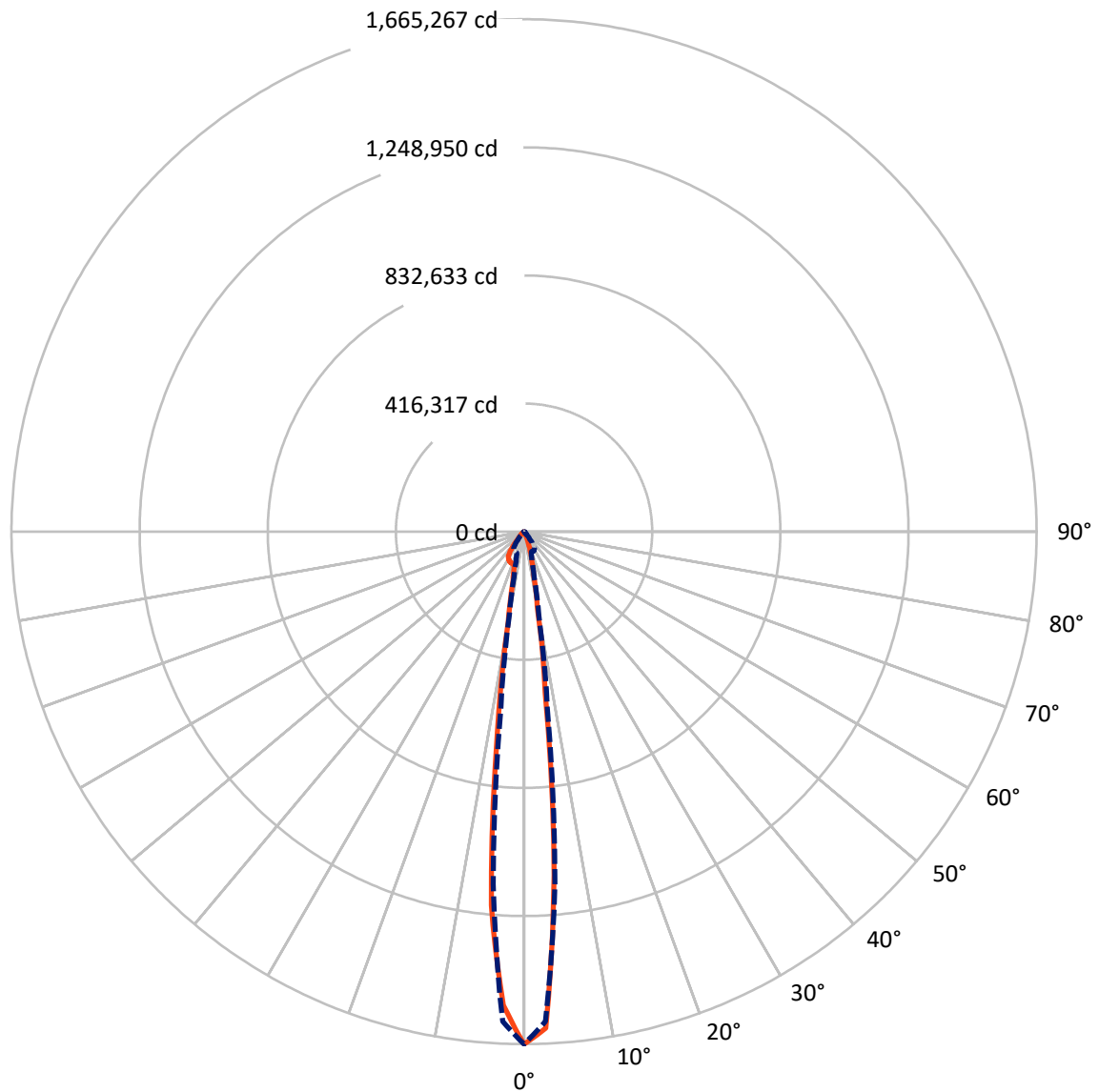
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Lumen Table

90	0.4	1.8	2.9	3.7	4.0	3.7	2.9	1.8	0.4										
80	0.4	1.8	2.9	3.7	4.0	3.7	2.9	1.8	0.4										
70	0.8	0.6	0.9	1.3	1.9	2.7	3.3	3.6	3.6	3.3	2.7	1.9	1.3	0.9	0.6	0.8			
60		0.7	1.2	2.5	4.3	6.6	10.7	16.7	16.7	10.7	6.6	4.3	2.5	1.2	0.7				
50	1.0	0.8	2.4	6.4	11.1	20.4	31.0	44.3	44.3	31.0	20.4	11.1	6.4	2.4	0.8	1.0			
40		1.1	5.3	13.8	28.1	39.7	60.5	71.0	71.0	60.5	39.7	28.1	13.8	5.3	1.1				
30	1.1	1.7	8.0	30.6	108.5	297.3	497.8	586.3	586.3	497.8	297.3	108.5	30.6	8.0	1.7	1.1			
20		2.3	11.9	70.2	469.8	1156.9	1691.3	2882.0	2882.0	1691.3	1156.9	469.8	70.2	11.9	2.3				
10	1.2	2.7	15.9	135.0	972.9	1761.6	3061.6	19604.6	19604.6	3061.6	1761.6	972.9	135.0	15.9	2.7	1.2			
0		2.7	16.7	167.1	1238.7	2086.8	3340.4	20793.6	20793.6	3340.4	2086.8	1238.7	167.1	16.7	2.7				
-10	1.1	2.5	13.3	131.4	1069.8	2384.4	2835.1	3994.3	3994.3	2835.1	2384.4	1069.8	131.4	13.3	2.5	1.1			
-20		2.0	9.0	68.9	542.1	1996.8	2910.1	3208.1	3208.1	2910.1	1996.8	542.1	68.9	9.0	2.0				
-30	1.0	1.3	6.4	25.7	176.3	721.5	1598.2	2160.7	2160.7	1598.2	721.5	176.3	25.7	6.4	1.3	1.0			
-40		1.0	3.4	9.0	36.3	147.2	339.6	487.7	487.7	339.6	147.2	36.3	9.0	3.4	1.0				
-50	0.8	0.7	1.6	3.8	7.4	17.2	39.4	58.5	58.5	39.4	17.2	7.4	3.8	1.6	0.7	0.8			
-60		0.6	0.9	1.6	2.7	4.0	5.1	5.7	5.7	5.1	4.0	2.7	1.6	0.9	0.6				
-70	0.4	1.7	2.7	3.8	4.1	3.8	2.7	1.7	0.4						0.4				
-80		1.7	2.7	3.8	4.1	3.8	2.7	1.7	0.4										
-90	0.4	1.7	2.7	3.8	4.1	3.8	2.7	1.7	0.4						0.4				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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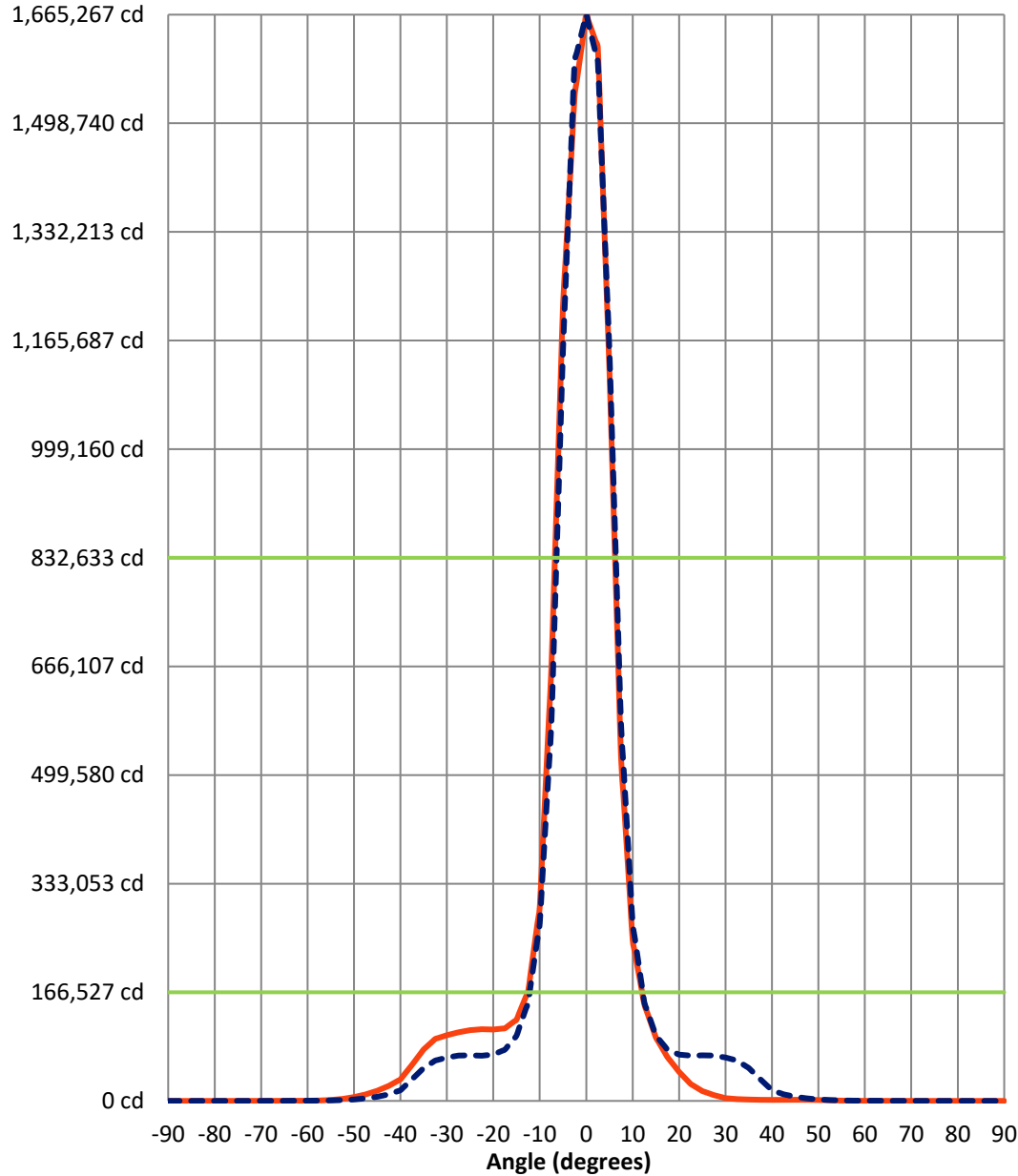
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 12.8°
 V Angle: 13°
 Lumens: 42866.1
 Efficiency: 24.8%

Field:
 H Angle: 24.4°
 V Angle: 24.6°
 Lumens: 86111
 Efficiency: 49.8%

Spill:
 Lumens: 86823.8
 Efficiency: 50.2%

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

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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	1.3	2.7	4.0	5.3	6.6	7.9	9.2	10.5	11.7	12.5
85°	0.0	2.7	5.3	8.0	10.6	13.3	15.9	18.4	21.0	23.5	25.0
82.5°	0.0	4.0	8.0	12.0	15.9	19.9	23.8	27.6	30.7	30.7	29.9
80°	0.0	5.3	10.6	15.9	21.2	26.5	30.7	30.7	30.7	30.7	30.4
77.5°	0.0	6.6	13.3	19.9	26.5	30.7	30.7	30.7	30.7	30.7	31.6
75°	0.0	7.9	15.9	23.8	30.7	30.7	30.7	30.7	31.0	33.5	35.5
72.5°	0.0	9.2	18.4	27.6	30.7	30.7	30.7	31.5	34.4	37.3	39.5
70°	0.0	10.5	21.0	30.7	30.7	30.7	31.0	34.4	37.7	40.9	40.5
67.5°	0.0	11.7	23.5	30.7	30.7	30.7	33.5	37.3	40.9	41.2	40.8
65°	0.0	13.0	25.9	30.7	30.7	31.7	35.9	40.1	41.5	41.5	42.1
62.5°	0.0	14.2	28.3	30.7	30.7	33.7	38.3	41.5	42.2	42.6	46.1
60°	0.0	15.3	30.7	30.7	30.7	35.6	40.6	42.4	43.1	45.9	50.0
57.5°	0.0	16.5	30.7	30.7	32.1	37.5	41.8	43.4	45.2	49.0	51.3
55°	0.0	17.6	30.7	30.7	33.6	39.4	42.8	44.5	47.6	51.3	51.6
52.5°	0.0	18.7	30.7	30.7	35.1	41.1	43.9	46.2	49.8	52.0	52.2
50°	0.0	19.7	30.7	30.7	36.4	42.1	45.0	47.8	51.5	52.7	55.2
47.5°	0.0	20.7	30.7	30.9	37.8	43.1	46.2	49.3	52.4	53.7	58.3
45°	0.0	21.7	30.7	31.9	39.1	44.1	47.4	50.7	53.4	56.1	61.0
42.5°	0.0	22.6	30.7	32.8	40.3	45.2	48.4	51.8	54.5	58.2	64.7
40°	0.0	23.5	30.7	33.7	41.3	46.3	49.3	52.8	55.9	60.2	68.5
37.5°	0.0	24.4	30.7	34.6	42.2	47.4	50.1	53.9	57.4	62.4	72.4
35°	0.0	25.1	30.7	35.3	43.0	48.2	50.8	55.1	58.8	65.8	77.4
32.5°	0.0	25.9	30.7	36.1	43.8	48.7	51.5	56.3	59.9	69.2	84.0
30°	0.0	26.6	30.7	36.8	44.6	49.2	52.4	57.5	60.9	72.6	90.4
27.5°	0.0	27.2	30.7	37.4	45.3	49.7	53.4	58.4	62.4	75.9	96.6
25°	0.0	27.8	30.7	38.0	46.1	50.0	54.3	59.1	65.1	80.4	102.7
22.5°	0.0	28.4	30.7	38.6	46.8	50.3	55.2	59.7	67.6	85.2	110.3
20°	0.0	28.8	30.7	39.0	47.5	50.6	56.1	60.2	70.0	89.8	117.5
17.5°	0.0	29.3	30.7	39.5	48.1	50.8	57.0	60.6	72.2	94.0	124.2
15°	0.0	29.7	30.7	39.9	48.8	50.9	57.8	60.9	74.3	97.9	130.4
12.5°	0.0	30.0	30.7	40.2	49.3	51.0	58.6	61.1	76.1	101.5	135.9
10°	0.0	30.2	30.7	40.4	49.8	51.1	59.4	61.2	77.8	104.6	140.9
7.5°	0.0	30.4	30.7	40.6	50.3	51.2	60.0	61.3	79.2	107.3	145.1
5°	0.0	30.6	30.7	40.8	50.6	51.2	60.6	61.4	80.4	109.6	148.7
2.5°	0.0	30.7	30.7	40.9	51.0	51.2	61.0	61.4	81.2	111.3	151.5
0°	0.0	30.7	30.7	40.9	51.2	51.2	61.4	61.4	81.8	112.5	153.5
-2.5°	0.0	30.7	30.7	40.9	51.0	51.2	61.3	61.8	82.1	112.7	154.1
-5°	0.0	30.6	30.7	40.8	50.6	51.2	61.2	62.1	82.0	112.3	153.9
-7.5°	0.0	30.4	30.7	40.6	50.3	51.2	60.9	62.4	81.6	111.4	152.8
-10°	0.0	30.2	30.7	40.4	49.8	51.1	60.4	62.7	80.9	110.0	150.7
-12.5°	0.0	30.0	30.7	40.2	49.3	51.0	59.9	62.9	79.8	108.0	147.7
-15°	0.0	29.7	30.7	39.9	48.8	50.9	59.3	63.0	78.5	105.4	143.7
-17.5°	0.0	29.3	30.7	39.5	48.1	50.8	58.5	63.0	76.8	102.3	138.8
-20°	0.0	28.8	30.7	39.0	47.5	50.6	57.6	63.0	74.8	98.7	132.9



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 CATALOG NUMBER: EPH-LS-16-1200R-40-70-1L-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	28.4	30.7	38.6	46.8	50.3	56.6	62.8	72.5	94.6	125.9
-25°	0.0	27.8	30.7	38.0	46.1	50.0	55.6	62.5	69.9	89.9	118.0
-27.5°	0.0	27.2	30.7	37.4	45.3	49.7	54.4	62.1	67.0	85.5	112.1
-30°	0.0	26.6	30.7	36.8	44.6	49.2	53.0	61.6	65.6	81.9	105.8
-32.5°	0.0	25.9	30.7	36.1	43.8	48.7	51.6	60.1	64.9	78.0	99.1
-35°	0.0	25.1	30.7	35.3	43.0	48.2	50.8	58.4	64.1	73.8	91.8
-37.5°	0.0	24.4	30.7	34.6	42.2	47.4	50.1	56.5	63.1	69.2	85.7
-40°	0.0	23.5	30.7	33.7	41.3	46.3	49.3	54.5	61.9	66.9	80.3
-42.5°	0.0	22.6	30.7	32.8	40.3	45.2	48.4	52.5	59.8	65.3	74.7
-45°	0.0	21.7	30.7	31.9	39.1	44.1	47.4	50.7	57.3	63.5	69.3
-47.5°	0.0	20.7	30.7	30.9	37.8	43.1	46.2	49.3	54.7	61.3	66.9
-50°	0.0	19.7	30.7	30.7	36.4	42.1	45.0	47.8	52.0	58.3	64.1
-52.5°	0.0	18.7	30.7	30.7	35.1	41.1	43.9	46.2	49.8	55.2	61.0
-55°	0.0	17.6	30.7	30.7	33.6	39.4	42.8	44.5	47.6	51.9	57.4
-57.5°	0.0	16.5	30.7	30.7	32.1	37.5	41.8	43.4	45.2	49.0	53.7
-60°	0.0	15.3	30.7	30.7	30.7	35.6	40.6	42.4	43.1	45.9	50.0
-62.5°	0.0	14.2	28.3	30.7	30.7	33.7	38.3	41.5	42.2	42.6	46.1
-65°	0.0	13.0	25.9	30.7	30.7	31.7	35.9	40.1	41.5	41.5	42.1
-67.5°	0.0	11.7	23.5	30.7	30.7	30.7	33.5	37.3	40.9	41.2	40.8
-70°	0.0	10.5	21.0	30.7	30.7	30.7	31.0	34.4	37.7	40.9	40.5
-72.5°	0.0	9.2	18.4	27.6	30.7	30.7	30.7	31.5	34.4	37.3	39.4
-75°	0.0	7.9	15.9	23.8	30.7	30.7	30.7	30.7	31.0	33.5	35.1
-77.5°	0.0	6.6	13.3	19.9	26.5	30.7	30.7	30.7	30.7	30.7	30.8
-80°	0.0	5.3	10.6	15.9	21.2	26.5	30.7	30.7	30.7	30.7	29.7
-82.5°	0.0	4.0	8.0	12.0	15.9	19.9	23.8	27.6	30.7	30.7	29.7
-85°	0.0	2.7	5.3	8.0	10.6	13.3	15.9	18.4	21.0	23.5	25.0
-87.5°	0.0	1.3	2.7	4.0	5.3	6.6	7.9	9.2	10.5	11.7	12.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-16-1200R-40-70-1L-S

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°	13.1	13.7	14.1	14.4	14.6	14.6	14.6	14.5	15.1	15.7	16.3
85°	26.3	27.3	26.5	25.9	25.4	25.1	24.8	24.7	24.8	24.7	24.5
82.5°	29.4	29.0	29.0	29.1	29.5	30.1	30.7	30.7	29.7	28.5	27.4
80°	30.4	30.7	31.5	32.1	32.2	32.1	31.6	30.9	29.8	29.2	29.2
77.5°	33.1	34.1	34.7	34.8	34.6	34.8	35.3	36.2	36.7	37.1	37.3
75°	36.9	37.7	37.6	37.8	38.5	39.6	40.9	41.0	40.5	40.1	40.1
72.5°	39.5	39.3	39.8	40.8	41.8	42.2	42.1	41.5	42.2	44.3	46.3
70°	40.3	40.7	42.4	43.7	44.3	44.6	45.7	47.4	49.6	52.0	54.2
67.5°	41.5	44.1	45.9	46.8	47.6	49.1	51.1	54.1	56.9	59.6	62.3
65°	45.4	47.9	48.6	49.4	51.0	54.3	57.7	60.9	64.1	67.6	71.7
62.5°	49.5	49.8	50.4	52.7	56.6	60.4	64.2	67.8	71.2	78.0	84.6
60°	50.7	50.8	53.6	58.0	62.3	66.5	70.5	77.4	85.0	92.2	96.2
57.5°	51.1	53.6	58.5	63.2	67.9	73.3	82.1	90.7	96.2	99.5	108.9
55°	52.7	58.0	63.2	68.4	75.2	85.0	94.2	100.9	105.8	131.1	151.8
52.5°	56.6	62.3	67.9	75.2	86.0	96.5	105.2	129.4	165.7	183.4	196.0
50°	60.5	66.5	73.3	85.0	97.1	108.4	149.5	201.0	222.5	232.9	239.0
47.5°	64.3	70.5	82.1	95.3	109.5	159.2	229.7	255.6	269.8	275.2	281.7
45°	68.4	77.5	90.7	107.6	151.9	244.7	282.4	300.3	305.2	323.1	370.5
42.5°	72.6	85.9	102.1	121.6	239.4	302.5	324.3	330.4	356.2	419.5	482.5
40°	79.8	94.3	114.6	207.7	315.9	341.5	351.8	373.7	455.3	545.4	622.9
37.5°	87.4	106.1	144.1	296.6	351.9	370.8	376.1	472.7	585.1	698.1	808.2
35°	94.9	117.8	219.2	349.8	387.1	391.9	466.9	590.8	744.0	894.2	1026.7
32.5°	104.0	129.2	288.6	370.0	406.3	434.1	565.2	749.4	936.5	1115.0	1295.2
30°	114.0	184.3	338.5	388.1	414.6	525.8	705.2	922.6	1148.4	1392.9	1599.9
27.5°	123.6	238.1	353.6	398.8	439.3	610.7	862.2	1125.9	1409.3	1699.8	1952.8
25°	132.9	286.5	366.7	409.0	512.8	731.7	1026.8	1335.7	1698.1	2060.5	2481.9
22.5°	157.2	328.8	377.9	420.9	584.3	867.8	1227.2	1628.3	2020.7	2464.0	3127.1
20°	193.1	338.0	387.3	442.7	653.1	1004.1	1444.5	1989.4	2542.2	3125.9	4438.9
17.5°	224.3	345.7	396.8	498.5	756.8	1162.4	1690.0	2400.7	3178.9	4183.9	6377.4
15°	250.9	351.7	406.6	550.2	863.6	1346.7	2025.9	2931.5	4026.4	5613.9	8796.3
12.5°	272.8	356.2	416.4	597.0	963.9	1530.3	2378.4	3519.9	5047.1	7604.1	13655.6
10°	290.2	359.3	425.7	638.5	1056.0	1708.2	2735.8	4134.7	6123.5	9596.6	18407.6
7.5°	303.1	360.9	434.1	673.9	1137.7	1875.1	3084.9	4752.8	7215.4	11534.6	22905.6
5°	311.9	361.1	441.3	702.4	1206.9	2025.2	3411.7	5348.6	8277.7	13355.0	26985.4
2.5°	316.5	360.2	446.8	723.6	1261.5	2152.4	3701.5	5895.0	9262.2	14990.1	30470.6
0°	317.2	358.1	450.2	736.6	1299.4	2250.9	3939.0	6363.8	10118.6	16369.9	33179.7
-2.5°	323.5	362.2	449.7	730.7	1291.7	2252.2	3975.0	6478.1	10454.7	17113.3	34304.7
-5°	325.7	365.7	447.0	716.3	1264.8	2216.9	3937.5	6474.2	10575.1	17457.9	34362.6
-7.5°	323.1	368.7	442.5	693.6	1218.6	2143.3	3821.0	6340.7	10445.9	17335.7	33257.5
-10°	315.4	371.8	436.5	663.0	1152.9	2030.0	3620.8	6067.9	10036.8	16687.5	30913.3
-12.5°	302.1	375.1	429.4	624.9	1067.9	1876.2	3332.9	5647.5	9322.6	15464.8	27276.5
-15°	282.8	378.9	421.6	579.5	963.5	1681.1	2954.7	5073.6	8283.4	13630.6	22316.6
-17.5°	257.3	383.6	413.3	527.3	840.2	1444.4	2484.0	4379.3	7199.4	11988.6	19819.8
-20°	225.3	389.4	404.8	468.6	711.9	1233.1	2150.4	3801.3	6292.5	10267.2	16888.8



REPORT NUMBER: P699933 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-1L-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	186.4	396.5	402.0	446.8	639.7	1061.2	1814.4	3118.7	5219.9	8362.8	13876.7
-25°	159.9	351.6	408.5	435.5	561.6	869.9	1433.5	2412.4	4358.9	7175.8	11500.7
-27.5°	150.3	297.2	417.2	425.2	478.0	692.8	1164.6	2029.7	3506.6	5780.9	8965.8
-30°	139.5	234.4	428.2	421.3	450.2	597.2	941.8	1565.1	2633.1	4565.8	7222.3
-32.5°	127.7	168.0	378.4	434.3	440.4	496.5	715.0	1225.2	2057.5	3296.0	5447.3
-35°	116.7	153.9	293.3	450.4	424.9	448.3	592.2	892.4	1477.9	2457.4	3890.5
-37.5°	108.1	138.7	198.5	407.0	427.8	423.1	461.1	672.3	1067.0	1673.5	2723.8
-40°	99.0	122.2	159.5	290.3	427.6	405.0	426.3	504.4	728.2	1170.9	1783.7
-42.5°	89.9	111.6	140.3	177.0	339.1	401.1	387.4	427.5	527.7	750.7	1177.7
-45°	83.3	100.6	121.5	153.7	223.3	353.2	378.0	371.7	421.3	514.1	731.0
-47.5°	76.5	90.2	109.1	131.1	162.5	239.1	340.2	354.8	354.1	402.4	465.2
-50°	70.3	82.1	96.2	114.8	137.4	166.4	232.2	308.7	328.3	330.9	365.4
-52.5°	66.8	73.5	85.9	100.4	117.6	138.8	165.5	210.8	267.4	294.7	303.6
-55°	62.6	67.8	75.7	87.9	101.8	117.6	135.4	159.6	183.5	225.6	258.9
-57.5°	58.3	62.6	67.9	75.9	87.7	100.4	114.8	128.7	149.1	170.0	192.5
-60°	53.9	57.4	61.6	66.9	73.9	84.9	96.5	109.1	121.6	133.4	150.8
-62.5°	49.5	52.6	55.6	59.2	64.3	70.0	79.2	89.8	100.7	111.1	120.6
-65°	45.4	47.9	50.3	52.9	55.4	59.9	65.0	70.7	79.6	88.7	97.3
-67.5°	41.5	44.1	45.9	47.2	49.3	51.3	53.3	57.7	62.5	67.9	73.7
-70°	40.3	40.7	42.4	43.7	44.3	44.8	46.4	47.9	49.6	52.7	57.3
-72.5°	39.5	39.3	39.8	40.8	41.8	42.2	42.1	41.5	42.2	44.3	46.3
-75°	36.4	37.6	37.6	37.8	38.5	39.6	40.9	41.0	40.5	40.1	40.1
-77.5°	31.7	32.5	33.3	34.0	34.6	34.8	35.3	36.2	36.7	37.1	37.3
-80°	28.6	27.5	27.8	28.1	28.4	28.7	28.9	29.1	29.2	29.2	29.2
-82.5°	28.5	27.4	26.3	25.1	24.0	22.9	22.0	21.8	22.4	22.9	23.1
-85°	26.3	27.3	26.2	25.1	23.9	22.8	21.7	20.5	19.9	19.5	19.1
-87.5°	13.1	13.7	14.1	14.4	14.6	14.6	14.6	14.5	14.3	14.0	13.5
-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: P699933 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-1L-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.8	17.3	17.8	18.2	18.6	18.9	17.1	15.2	13.2	11.1	9.0
85°	24.1	23.6	23.0	22.3	21.5	20.5	19.3	18.0	16.9	15.7	14.6
82.5°	26.3	25.1	24.0	22.9	21.7	20.6	20.3	20.2	20.2	20.2	20.2
80°	29.1	29.0	28.8	28.5	28.1	27.7	28.2	28.8	29.3	29.7	30.1
77.5°	37.0	36.6	36.5	36.5	36.7	37.0	37.8	38.5	39.1	39.7	40.1
75°	40.5	41.3	42.8	44.1	45.3	46.4	47.4	48.3	49.0	49.7	50.2
72.5°	48.2	49.9	51.6	53.1	54.5	55.8	57.0	58.0	58.9	59.7	60.3
70°	56.4	58.4	60.3	62.5	65.6	68.7	71.6	73.9	76.0	77.8	79.2
67.5°	65.6	69.3	73.3	77.6	81.3	84.2	86.2	87.6	88.8	89.8	90.6
65°	76.7	81.7	86.0	89.5	92.3	95.9	99.4	102.5	105.1	107.3	109.2
62.5°	90.2	94.5	98.8	103.4	108.2	114.8	121.3	126.4	130.8	134.5	137.6
60°	100.8	105.9	119.5	131.1	139.9	146.2	150.0	155.7	161.5	166.9	171.8
57.5°	128.8	145.3	158.4	168.2	175.0	178.8	182.5	192.9	206.5	220.3	233.8
55°	171.2	186.8	198.6	208.4	217.2	224.7	234.4	266.0	307.8	351.6	395.7
52.5°	215.0	229.2	241.9	258.5	292.7	325.1	355.4	406.3	484.1	563.7	643.1
50°	255.5	279.7	321.6	362.4	415.7	474.1	531.9	596.5	714.5	837.6	962.4
47.5°	323.0	370.8	431.8	498.9	572.3	658.3	743.7	824.5	944.6	1079.8	1213.9
45°	411.2	482.2	561.0	657.7	756.2	846.4	927.4	1000.0	1086.5	1205.3	1319.4
42.5°	530.5	606.2	711.2	819.8	921.8	998.9	1047.3	1088.1	1143.4	1250.6	1344.1
40°	692.8	738.5	862.5	967.7	1032.4	1088.1	1130.6	1169.6	1212.6	1315.9	1396.8
37.5°	890.6	940.9	983.3	1058.4	1113.6	1162.2	1248.9	1329.4	1381.9	1478.8	1567.0
35°	1136.6	1159.9	1084.2	1128.1	1219.6	1359.2	1522.6	1713.0	1754.9	1781.3	1909.9
32.5°	1407.2	1434.5	1347.2	1284.0	1461.2	1895.2	2187.7	2574.6	2574.4	2264.2	2487.1
30°	1741.4	1844.5	2016.8	1919.4	2269.1	3043.1	3771.4	4358.2	4377.9	3702.7	3938.6
27.5°	2251.5	2769.9	3371.5	4337.4	4067.4	5111.8	6853.0	7763.4	8355.5	7536.1	8023.5
25°	3127.1	4232.3	6996.7	8552.0	8842.9	9362.9	12055.5	13873.7	15738.4	16261.8	15783.6
22.5°	4731.0	8295.6	11980.0	14236.4	15878.0	17367.7	19683.6	23590.6	25887.9	26882.4	26769.2
20°	7409.5	13534.6	18172.8	21528.8	24320.9	27107.0	30790.4	34362.7	36952.9	38107.5	39194.2
17.5°	12497.2	19676.7	25236.5	29498.1	33452.8	37904.0	41633.0	44901.0	46930.1	49958.1	53296.2
15°	18222.2	26405.4	32735.6	38019.6	43037.4	47493.1	50812.0	52794.1	57043.4	62101.2	68156.9
12.5°	24151.4	33287.5	40244.3	46453.0	52123.8	55399.6	57045.3	59839.3	65423.6	73516.6	86865.6
10°	30120.8	39813.8	46908.4	52982.9	58438.8	61461.5	62052.1	65108.7	72979.8	88031.9	109634.7
7.5°	35953.9	46052.1	52782.6	58375.4	62277.6	63975.5	65645.3	70464.1	81776.9	102453.2	146451.2
5°	41437.6	51886.3	57937.2	62794.4	65319.8	65987.6	67881.3	74380.8	90180.5	122152.8	194705.1
2.5°	46337.6	57190.7	62472.4	66437.8	67773.0	67722.0	69645.7	77096.1	96629.3	141758.5	248776.5
0°	50409.0	61837.2	66512.9	69551.5	69899.4	69336.7	71055.5	78647.0	100122.3	151406.0	272456.2
-2.5°	52470.6	64777.2	69744.5	72683.0	73102.7	72577.8	73956.9	81010.9	101171.5	148156.1	257691.3
-5°	53285.0	66810.5	72647.7	75643.0	76325.8	75928.1	76799.3	82475.1	99016.5	134049.9	208343.5
-7.5°	52701.0	67832.3	75251.9	78512.7	79616.5	79429.5	79714.1	83213.7	94305.8	116183.8	161786.2
-10°	50598.0	67763.2	77588.8	81365.3	83013.6	83135.5	83208.9	84538.7	90469.6	104778.3	126558.2
-12.5°	46890.5	66552.0	79690.7	84243.7	86257.4	87164.3	87627.2	88589.4	91168.8	96069.5	109182.1
-15°	41640.7	62664.8	77842.5	85189.4	88575.9	90697.5	92103.9	92897.3	94311.3	96630.6	100758.7
-17.5°	35250.3	55232.1	73404.3	85526.3	90243.2	93272.2	95571.4	97489.0	98162.5	99372.5	101268.5
-20°	27780.9	46552.3	66256.2	80884.9	89978.1	94798.6	98063.9	99955.2	101341.6	102492.7	104446.0



REPORT NUMBER: P699933 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-1L-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	22670.3	37407.6	55640.7	74134.3	86402.5	94034.7	98415.6	100364.3	102270.1	104236.8	106356.6
-25°	18023.7	27828.3	44394.1	61706.1	78221.6	89444.6	95474.8	98955.0	101264.8	103701.8	105899.7
-27.5°	14203.0	21918.4	32566.7	48522.0	64516.1	78705.5	87630.0	94969.5	98088.9	101120.7	102906.7
-30°	10698.5	16265.8	24516.7	35028.7	48651.1	61402.4	73889.4	83343.8	90491.6	96048.5	98016.4
-32.5°	8320.1	12008.2	17477.1	25123.4	32995.4	44024.4	54779.8	65413.0	75161.0	82423.2	86959.7
-35°	6061.5	8957.4	12392.5	17289.0	22814.9	29452.4	36417.7	45511.4	53677.5	61286.3	67701.4
-37.5°	4177.8	6317.1	8976.3	11840.9	15837.4	19885.9	24793.6	29495.1	33431.1	39959.4	45422.6
-40°	2814.8	4079.1	6116.8	8288.5	10888.7	13468.8	16977.2	20164.7	23294.4	26330.6	28793.3
-42.5°	1780.4	2712.8	3806.0	5465.1	7283.5	9284.8	11493.8	13584.7	15873.0	17964.2	19708.3
-45°	1065.1	1670.5	2382.9	3400.7	4447.9	5970.5	7510.4	8969.3	10548.8	11909.2	13080.1
-47.5°	673.8	921.6	1412.7	1990.1	2670.2	3596.3	4523.3	5501.5	6582.6	7504.1	8291.0
-50°	440.7	570.3	801.6	1048.2	1491.9	2005.4	2514.8	3140.7	3770.1	4333.9	4824.9
-52.5°	322.3	390.0	473.6	592.1	808.3	1031.7	1259.2	1628.9	1964.4	2260.0	2513.0
-55°	282.9	299.0	314.0	371.9	451.8	537.8	645.7	815.8	962.6	1092.3	1203.5
-57.5°	223.0	250.2	271.3	283.8	295.2	305.4	348.0	413.2	473.0	526.4	572.9
-60°	167.4	183.0	205.7	226.3	244.0	258.8	266.8	275.1	282.9	289.8	295.6
-62.5°	129.6	141.6	154.9	167.4	178.9	191.6	204.6	215.2	224.2	231.7	237.7
-65°	105.4	113.1	120.3	127.1	133.4	142.9	151.3	158.2	163.9	168.3	171.5
-67.5°	81.0	87.9	94.4	100.4	105.9	111.0	115.5	119.6	123.1	126.1	128.6
-70°	61.6	65.6	69.4	73.6	78.4	82.9	86.9	90.5	93.6	96.2	98.4
-72.5°	48.2	49.9	52.0	55.0	57.9	60.4	62.7	64.8	66.6	68.1	69.4
-75°	40.5	41.3	42.8	44.1	45.3	46.4	47.4	48.3	49.0	49.7	50.2
-77.5°	37.0	36.6	36.5	36.5	36.7	37.0	37.8	38.5	39.1	39.7	40.1
-80°	29.1	29.0	28.8	28.5	28.1	27.7	28.0	28.4	28.8	29.3	29.7
-82.5°	23.1	22.9	22.6	22.1	21.4	20.6	19.4	18.3	17.1	16.0	14.8
-85°	18.9	18.7	18.7	18.7	18.8	18.9	18.1	17.3	16.4	15.5	14.5
-87.5°	13.1	12.5	11.8	11.1	10.3	9.4	8.5	7.6	6.6	5.5	4.5
-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: P699933 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-1L-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°	6.8	4.5	2.3	0.0	2.3	4.5	6.8	9.0	11.1	13.2	15.2
85°	13.5	12.4	11.3	10.2	11.3	12.4	13.5	14.6	15.7	16.9	18.0
82.5°	20.3	20.4	20.5	20.5	20.5	20.4	20.3	20.2	20.2	20.2	20.2
80°	30.3	30.5	30.7	30.7	30.7	30.5	30.3	30.1	29.7	29.3	28.8
77.5°	40.5	40.7	40.9	40.9	40.9	40.7	40.5	40.1	39.7	39.1	38.5
75°	50.7	51.0	51.1	51.2	51.1	51.0	50.7	50.2	49.7	49.0	48.3
72.5°	60.8	61.1	61.3	61.4	61.3	61.1	60.8	60.3	59.7	58.9	58.0
70°	80.3	81.2	81.6	81.8	81.6	81.2	80.3	79.2	77.8	76.0	73.9
67.5°	91.3	91.7	92.0	92.1	92.0	91.7	91.3	90.6	89.8	88.8	87.6
65°	110.6	111.7	112.3	112.5	112.3	111.7	110.6	109.2	107.3	105.1	102.5
62.5°	140.1	141.8	142.9	143.2	142.9	141.8	140.1	137.6	134.5	130.8	126.4
60°	176.1	179.6	182.4	184.2	182.4	179.6	176.1	171.8	166.9	161.5	155.7
57.5°	246.6	258.2	268.3	276.2	268.3	258.2	246.6	233.8	220.3	206.5	192.9
55°	438.5	478.4	513.5	542.3	513.5	478.4	438.5	395.7	351.6	307.8	266.0
52.5°	719.9	791.7	856.1	910.6	856.1	791.7	719.9	643.1	563.7	484.1	406.3
50°	1085.1	1201.9	1308.8	1401.7	1308.8	1201.9	1085.1	962.4	837.6	714.5	596.5
47.5°	1345.1	1471.0	1589.5	1698.4	1589.5	1471.0	1345.1	1213.9	1079.8	944.6	824.5
45°	1429.3	1535.5	1638.6	1739.3	1638.6	1535.5	1429.3	1319.4	1205.3	1086.5	1000.0
42.5°	1427.0	1502.6	1574.7	1647.2	1574.7	1502.6	1427.0	1344.1	1250.6	1143.4	1088.1
40°	1457.6	1503.8	1541.0	1575.6	1541.0	1503.8	1457.6	1396.8	1315.9	1212.6	1169.6
37.5°	1630.2	1671.9	1696.5	1708.6	1696.5	1671.9	1630.2	1567.0	1478.8	1381.9	1329.4
35°	2011.4	2085.1	2130.7	2148.5	2130.7	2085.1	2011.4	1909.9	1781.3	1754.9	1713.0
32.5°	2646.8	2746.2	2789.6	2782.9	2789.6	2746.2	2646.8	2487.1	2264.2	2574.4	2574.6
30°	4384.4	4555.5	4497.7	4266.4	4497.7	4555.5	4384.4	3938.6	3702.7	4377.9	4358.2
27.5°	9361.1	9871.7	9671.9	8911.4	9671.9	9871.7	9361.1	8023.5	7536.1	8355.5	7763.4
25°	17228.9	17526.8	16753.0	15131.9	16753.0	17526.8	17228.9	15783.6	16261.8	15738.4	13873.7
22.5°	27699.1	28427.5	27827.2	25966.7	27827.2	28427.5	27699.1	26769.2	26882.4	25887.9	23590.6
20°	41252.4	43910.9	45139.3	44526.1	45139.3	43910.9	41252.4	39194.2	38107.5	36952.9	34362.7
17.5°	57398.4	62279.1	65862.4	67075.6	65862.4	62279.1	57398.4	53296.2	49958.1	46930.1	44901.0
15°	76679.6	85718.6	93408.2	97339.4	93408.2	85718.6	76679.6	68156.9	62101.2	57043.4	52794.1
12.5°	101532.5	119768.6	138531.0	148362.3	138531.0	119768.6	101532.5	86865.6	73516.6	65423.6	59839.3
10°	145023.4	188998.7	233215.7	246827.1	233215.7	188998.7	145023.4	109634.7	88031.9	72979.8	65108.7
7.5°	222717.5	340011.6	475553.3	526496.3	475553.3	340011.6	222717.5	146451.2	102453.2	81776.9	70464.1
5°	349580.2	617521.1	957522.3	#####	957522.3	617521.1	349580.2	194705.1	122152.8	90180.5	74380.8
2.5°	496845.5	973079.0	#####	#####	#####	973079.0	496845.5	248776.5	141758.5	96629.3	77096.1
0°	577856.7	#####	#####	#####	#####	#####	577856.7	272456.2	151406.0	100122.3	78647.0
-2.5°	522435.1	#####	#####	#####	#####	#####	522435.1	257691.3	148156.1	101171.5	81010.9
-5°	383547.6	693637.4	#####	#####	#####	693637.4	383547.6	208343.5	134049.9	99016.5	82475.1
-7.5°	245736.5	403119.5	583081.1	663962.2	583081.1	403119.5	245736.5	161786.2	116183.8	94305.8	83213.7
-10°	164595.1	221447.5	281792.0	297706.7	281792.0	221447.5	164595.1	126558.2	104778.3	90469.6	84538.7
-12.5°	123577.9	143440.1	160774.6	168215.8	160774.6	143440.1	123577.9	109182.1	96069.5	91168.8	88589.4
-15°	108667.2	116306.5	121473.2	124605.5	121473.2	116306.5	108667.2	100758.7	96630.6	94311.3	92897.3
-17.5°	105014.3	107263.8	109328.1	111335.6	109328.1	107263.8	105014.3	101268.5	99372.5	98162.5	97489.0
-20°	106284.0	107011.9	108125.5	109473.6	108125.5	107011.9	106284.0	104446.0	102492.7	101341.6	99955.2



REPORT NUMBER: P699933 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-1L-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	107421.0	108099.5	108987.5	109913.5	108987.5	108099.5	107421.0	106356.6	104236.8	102270.1	100364.3
-25°	106669.8	107398.4	108034.0	108470.9	108034.0	107398.4	106669.8	105899.7	103701.8	101264.8	98955.0
-27.5°	103873.5	104608.0	105061.7	105186.7	105061.7	104608.0	103873.5	102906.7	101120.7	98088.9	94969.5
-30°	99359.1	100264.6	100726.3	100746.4	100726.3	100264.6	99359.1	98016.4	96048.5	90491.6	83343.8
-32.5°	90540.3	93108.0	94617.4	95037.4	94617.4	93108.0	90540.3	86959.7	82423.2	75161.0	65413.0
-35°	72701.7	76246.2	78311.1	78892.6	78311.1	76246.2	72701.7	67701.4	61286.3	53677.5	45511.4
-37.5°	49730.6	52837.2	54707.7	55320.0	54707.7	52837.2	49730.6	45422.6	39959.4	33431.1	29495.1
-40°	30688.7	32020.0	32797.3	33036.5	32797.3	32020.0	30688.7	28793.3	26330.6	23294.4	20164.7
-42.5°	21097.7	22127.2	22794.9	23102.0	22794.9	22127.2	21097.7	19708.3	17964.2	15873.0	13584.7
-45°	14048.0	14800.3	15325.4	15612.8	15325.4	14800.3	14048.0	13080.1	11909.2	10548.8	8969.3
-47.5°	8936.4	9434.1	9778.6	9965.2	9778.6	9434.1	8936.4	8291.0	7504.1	6582.6	5501.5
-50°	5236.1	5560.7	5792.0	5923.8	5792.0	5560.7	5236.1	4824.9	4333.9	3770.1	3140.7
-52.5°	2720.7	2880.7	2990.8	3048.9	2990.8	2880.7	2720.7	2513.0	2260.0	1964.4	1628.9
-55°	1295.2	1366.3	1415.8	1442.6	1415.8	1366.3	1295.2	1203.5	1092.3	962.6	815.8
-57.5°	611.7	642.1	663.5	675.3	663.5	642.1	611.7	572.9	526.4	473.0	413.2
-60°	300.4	303.9	306.1	306.9	306.1	303.9	300.4	295.6	289.8	282.9	275.1
-62.5°	242.1	244.8	246.0	245.5	246.0	244.8	242.1	237.7	231.7	224.2	215.2
-65°	173.6	174.7	174.7	173.9	174.7	174.7	173.6	171.5	168.3	163.9	158.2
-67.5°	130.5	131.9	132.7	133.0	132.7	131.9	130.5	128.6	126.1	123.1	119.6
-70°	100.1	101.3	102.1	102.3	102.1	101.3	100.1	98.4	96.2	93.6	90.5
-72.5°	70.3	71.0	71.5	71.6	71.5	71.0	70.3	69.4	68.1	66.6	64.8
-75°	50.7	51.0	51.1	51.2	51.1	51.0	50.7	50.2	49.7	49.0	48.3
-77.5°	40.5	40.7	40.9	40.9	40.9	40.7	40.5	40.1	39.7	39.1	38.5
-80°	30.1	30.4	30.6	30.7	30.6	30.4	30.1	29.7	29.3	28.8	28.4
-82.5°	13.7	12.5	11.4	10.2	11.4	12.5	13.7	14.8	16.0	17.1	18.3
-85°	13.5	12.4	11.3	10.2	11.3	12.4	13.5	14.5	15.5	16.4	17.3
-87.5°	3.4	2.3	1.1	0.0	1.1	2.3	3.4	4.5	5.5	6.6	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



REPORT NUMBER: P699933 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	17.1	18.9	18.6	18.2	17.8	17.3	16.8	16.3	15.7	15.1	14.5
85°	19.3	20.5	21.5	22.3	23.0	23.6	24.1	24.5	24.7	24.8	24.7
82.5°	20.3	20.6	21.7	22.9	24.0	25.1	26.3	27.4	28.5	29.7	30.7
80°	28.2	27.7	28.1	28.5	28.8	29.0	29.1	29.2	29.2	29.8	30.9
77.5°	37.8	37.0	36.7	36.5	36.5	36.6	37.0	37.3	37.1	36.7	36.2
75°	47.4	46.4	45.3	44.1	42.8	41.3	40.5	40.1	40.1	40.5	41.0
72.5°	57.0	55.8	54.5	53.1	51.6	49.9	48.2	46.3	44.3	42.2	41.5
70°	71.6	68.7	65.6	62.5	60.3	58.4	56.4	54.2	52.0	49.6	47.4
67.5°	86.2	84.2	81.3	77.6	73.3	69.3	65.6	62.3	59.6	56.9	54.1
65°	99.4	95.9	92.3	89.5	86.0	81.7	76.7	71.7	67.6	64.1	60.9
62.5°	121.3	114.8	108.2	103.4	98.8	94.5	90.2	84.6	78.0	71.2	67.8
60°	150.0	146.2	139.9	131.1	119.5	105.9	100.8	96.2	92.2	85.0	77.4
57.5°	182.5	178.8	175.0	168.2	158.4	145.3	128.8	108.9	99.5	96.2	90.7
55°	234.4	224.7	217.2	208.4	198.6	186.8	171.2	151.8	131.1	105.8	100.9
52.5°	355.4	325.1	292.7	258.5	241.9	229.2	215.0	196.0	183.4	165.7	129.4
50°	531.9	474.1	415.7	362.4	321.6	279.7	255.5	239.0	232.9	222.5	201.0
47.5°	743.7	658.3	572.3	498.9	431.8	370.8	323.0	281.7	275.2	269.8	255.6
45°	927.4	846.4	756.2	657.7	561.0	482.2	411.2	370.5	323.1	305.2	300.3
42.5°	1047.3	998.9	921.8	819.8	711.2	606.2	530.5	482.5	419.5	356.2	330.4
40°	1130.6	1088.1	1032.4	967.7	862.5	738.5	692.8	622.9	545.4	455.3	373.7
37.5°	1248.9	1162.2	1113.6	1058.4	983.3	940.9	890.6	808.2	698.1	585.1	472.7
35°	1522.6	1359.2	1219.6	1128.1	1084.2	1159.9	1136.6	1026.7	894.2	744.0	590.8
32.5°	2187.7	1895.2	1461.2	1284.0	1347.2	1434.5	1407.2	1295.2	1115.0	936.5	749.4
30°	3771.4	3043.1	2269.1	1919.4	2016.8	1844.5	1741.4	1599.9	1392.9	1148.4	922.6
27.5°	6853.0	5111.8	4067.4	4337.4	3371.5	2769.9	2251.5	1952.8	1699.8	1409.3	1125.9
25°	12055.5	9362.9	8842.9	8552.0	6996.7	4232.3	3127.1	2481.9	2060.5	1698.1	1335.7
22.5°	19683.6	17367.7	15878.0	14236.4	11980.0	8295.6	4731.0	3127.1	2464.0	2020.7	1628.3
20°	30790.4	27107.0	24320.9	21528.8	18172.8	13534.6	7409.5	4438.9	3125.9	2542.2	1989.4
17.5°	41633.0	37904.0	33452.8	29498.1	25236.5	19676.7	12497.2	6377.4	4183.9	3178.9	2400.7
15°	50812.0	47493.1	43037.4	38019.6	32735.6	26405.4	18222.2	8796.3	5613.9	4026.4	2931.5
12.5°	57045.3	55399.6	52123.8	46453.0	40244.3	33287.5	24151.4	13655.6	7604.1	5047.1	3519.9
10°	62052.1	61461.5	58438.8	52982.9	46908.4	39813.8	30120.8	18407.6	9596.6	6123.5	4134.7
7.5°	65645.3	63975.5	62277.6	58375.4	52782.6	46052.1	35953.9	22905.6	11534.6	7215.4	4752.8
5°	67881.3	65987.6	65319.8	62794.4	57937.2	51886.3	41437.6	26985.4	13355.0	8277.7	5348.6
2.5°	69645.7	67722.0	67773.0	66437.8	62472.4	57190.7	46337.6	30470.6	14990.1	9262.2	5895.0
0°	71055.5	69336.7	69899.4	69551.5	66512.9	61837.2	50409.0	33179.7	16369.9	10118.6	6363.8
-2.5°	73956.9	72577.8	73102.7	72683.0	69744.5	64777.2	52470.6	34304.7	17113.3	10454.7	6478.1
-5°	76799.3	75928.1	76325.8	75643.0	72647.7	66810.5	53285.0	34362.6	17457.9	10575.1	6474.2
-7.5°	79714.1	79429.5	79616.5	78512.7	75251.9	67832.3	52701.0	33257.5	17335.7	10445.9	6340.7
-10°	83208.9	83135.5	83013.6	81365.3	77588.8	67763.2	50598.0	30913.3	16687.5	10036.8	6067.9
-12.5°	87627.2	87164.3	86257.4	84243.7	79690.7	66552.0	46890.5	27276.5	15464.8	9322.6	5647.5
-15°	92103.9	90697.5	88575.9	85189.4	77842.5	62664.8	41640.7	22316.6	13630.6	8283.4	5073.6
-17.5°	95571.4	93272.2	90243.2	85526.3	73404.3	55232.1	35250.3	19819.8	11988.6	7199.4	4379.3
-20°	98063.9	94798.6	89978.1	80884.9	66256.2	46552.3	27780.9	16888.8	10267.2	6292.5	3801.3



REPORT NUMBER: P699933 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-1L-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	98415.6	94034.7	86402.5	74134.3	55640.7	37407.6	22670.3	13876.7	8362.8	5219.9	3118.7
-25°	95474.8	89444.6	78221.6	61706.1	44394.1	27828.3	18023.7	11500.7	7175.8	4358.9	2412.4
-27.5°	87630.0	78705.5	64516.1	48522.0	32566.7	21918.4	14203.0	8965.8	5780.9	3506.6	2029.7
-30°	73889.4	61402.4	48651.1	35028.7	24516.7	16265.8	10698.5	7222.3	4565.8	2633.1	1565.1
-32.5°	54779.8	44024.4	32995.4	25123.4	17477.1	12008.2	8320.1	5447.3	3296.0	2057.5	1225.2
-35°	36417.7	29452.4	22814.9	17289.0	12392.5	8957.4	6061.5	3890.5	2457.4	1477.9	892.4
-37.5°	24793.6	19885.9	15837.4	11840.9	8976.3	6317.1	4177.8	2723.8	1673.5	1067.0	672.3
-40°	16977.2	13468.8	10888.7	8288.5	6116.8	4079.1	2814.8	1783.7	1170.9	728.2	504.4
-42.5°	11493.8	9284.8	7283.5	5465.1	3806.0	2712.8	1780.4	1177.7	750.7	527.7	427.5
-45°	7510.4	5970.5	4447.9	3400.7	2382.9	1670.5	1065.1	731.0	514.1	421.3	371.7
-47.5°	4523.3	3596.3	2670.2	1990.1	1412.7	921.6	673.8	465.2	402.4	354.1	354.8
-50°	2514.8	2005.4	1491.9	1048.2	801.6	570.3	440.7	365.4	330.9	328.3	308.7
-52.5°	1259.2	1031.7	808.3	592.1	473.6	390.0	322.3	303.6	294.7	267.4	210.8
-55°	645.7	537.8	451.8	371.9	314.0	299.0	282.9	258.9	225.6	183.5	159.6
-57.5°	348.0	305.4	295.2	283.8	271.3	250.2	223.0	192.5	170.0	149.1	128.7
-60°	266.8	258.8	244.0	226.3	205.7	183.0	167.4	150.8	133.4	121.6	109.1
-62.5°	204.6	191.6	178.9	167.4	154.9	141.6	129.6	120.6	111.1	100.7	89.8
-65°	151.3	142.9	133.4	127.1	120.3	113.1	105.4	97.3	88.7	79.6	70.7
-67.5°	115.5	111.0	105.9	100.4	94.4	87.9	81.0	73.7	67.9	62.5	57.7
-70°	86.9	82.9	78.4	73.6	69.4	65.6	61.6	57.3	52.7	49.6	47.9
-72.5°	62.7	60.4	57.9	55.0	52.0	49.9	48.2	46.3	44.3	42.2	41.5
-75°	47.4	46.4	45.3	44.1	42.8	41.3	40.5	40.1	40.1	40.5	41.0
-77.5°	37.8	37.0	36.7	36.5	36.5	36.6	37.0	37.3	37.1	36.7	36.2
-80°	28.0	27.7	28.1	28.5	28.8	29.0	29.1	29.2	29.2	29.2	29.1
-82.5°	19.4	20.6	21.4	22.1	22.6	22.9	23.1	23.1	22.9	22.4	21.8
-85°	18.1	18.9	18.8	18.7	18.7	18.7	18.9	19.1	19.5	19.9	20.5
-87.5°	8.5	9.4	10.3	11.1	11.8	12.5	13.1	13.5	14.0	14.3	14.5
-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: P699933 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-1L-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°	14.6	14.6	14.6	14.4	14.1	13.7	13.1	12.5	11.7	10.5	9.2
85°	24.8	25.1	25.4	25.9	26.5	27.3	26.3	25.0	23.5	21.0	18.4
82.5°	30.7	30.1	29.5	29.1	29.0	29.0	29.4	29.9	30.7	30.7	27.6
80°	31.6	32.1	32.2	32.1	31.5	30.7	30.4	30.4	30.7	30.7	30.7
77.5°	35.3	34.8	34.6	34.8	34.7	34.1	33.1	31.6	30.7	30.7	30.7
75°	40.9	39.6	38.5	37.8	37.6	37.7	36.9	35.5	33.5	31.0	30.7
72.5°	42.1	42.2	41.8	40.8	39.8	39.3	39.5	39.5	37.3	34.4	31.5
70°	45.7	44.6	44.3	43.7	42.4	40.7	40.3	40.5	40.9	37.7	34.4
67.5°	51.1	49.1	47.6	46.8	45.9	44.1	41.5	40.8	41.2	40.9	37.3
65°	57.7	54.3	51.0	49.4	48.6	47.9	45.4	42.1	41.5	41.5	40.1
62.5°	64.2	60.4	56.6	52.7	50.4	49.8	49.5	46.1	42.6	42.2	41.5
60°	70.5	66.5	62.3	58.0	53.6	50.8	50.7	50.0	45.9	43.1	42.4
57.5°	82.1	73.3	67.9	63.2	58.5	53.6	51.1	51.3	49.0	45.2	43.4
55°	94.2	85.0	75.2	68.4	63.2	58.0	52.7	51.6	51.3	47.6	44.5
52.5°	105.2	96.5	86.0	75.2	67.9	62.3	56.6	52.2	52.0	49.8	46.2
50°	149.5	108.4	97.1	85.0	73.3	66.5	60.5	55.2	52.7	51.5	47.8
47.5°	229.7	159.2	109.5	95.3	82.1	70.5	64.3	58.3	53.7	52.4	49.3
45°	282.4	244.7	151.9	107.6	90.7	77.5	68.4	61.0	56.1	53.4	50.7
42.5°	324.3	302.5	239.4	121.6	102.1	85.9	72.6	64.7	58.2	54.5	51.8
40°	351.8	341.5	315.9	207.7	114.6	94.3	79.8	68.5	60.2	55.9	52.8
37.5°	376.1	370.8	351.9	296.6	144.1	106.1	87.4	72.4	62.4	57.4	53.9
35°	466.9	391.9	387.1	349.8	219.2	117.8	94.9	77.4	65.8	58.8	55.1
32.5°	565.2	434.1	406.3	370.0	288.6	129.2	104.0	84.0	69.2	59.9	56.3
30°	705.2	525.8	414.6	388.1	338.5	184.3	114.0	90.4	72.6	60.9	57.5
27.5°	862.2	610.7	439.3	398.8	353.6	238.1	123.6	96.6	75.9	62.4	58.4
25°	1026.8	731.7	512.8	409.0	366.7	286.5	132.9	102.7	80.4	65.1	59.1
22.5°	1227.2	867.8	584.3	420.9	377.9	328.8	157.2	110.3	85.2	67.6	59.7
20°	1444.5	1004.1	653.1	442.7	387.3	338.0	193.1	117.5	89.8	70.0	60.2
17.5°	1690.0	1162.4	756.8	498.5	396.8	345.7	224.3	124.2	94.0	72.2	60.6
15°	2025.9	1346.7	863.6	550.2	406.6	351.7	250.9	130.4	97.9	74.3	60.9
12.5°	2378.4	1530.3	963.9	597.0	416.4	356.2	272.8	135.9	101.5	76.1	61.1
10°	2735.8	1708.2	1056.0	638.5	425.7	359.3	290.2	140.9	104.6	77.8	61.2
7.5°	3084.9	1875.1	1137.7	673.9	434.1	360.9	303.1	145.1	107.3	79.2	61.3
5°	3411.7	2025.2	1206.9	702.4	441.3	361.1	311.9	148.7	109.6	80.4	61.4
2.5°	3701.5	2152.4	1261.5	723.6	446.8	360.2	316.5	151.5	111.3	81.2	61.4
0°	3939.0	2250.9	1299.4	736.6	450.2	358.1	317.2	153.5	112.5	81.8	61.4
-2.5°	3975.0	2252.2	1291.7	730.7	449.7	362.2	323.5	154.1	112.7	82.1	61.8
-5°	3937.5	2216.9	1264.8	716.3	447.0	365.7	325.7	153.9	112.3	82.0	62.1
-7.5°	3821.0	2143.3	1218.6	693.6	442.5	368.7	323.1	152.8	111.4	81.6	62.4
-10°	3620.8	2030.0	1152.9	663.0	436.5	371.8	315.4	150.7	110.0	80.9	62.7
-12.5°	3332.9	1876.2	1067.9	624.9	429.4	375.1	302.1	147.7	108.0	79.8	62.9
-15°	2954.7	1681.1	963.5	579.5	421.6	378.9	282.8	143.7	105.4	78.5	63.0
-17.5°	2484.0	1444.4	840.2	527.3	413.3	383.6	257.3	138.8	102.3	76.8	63.0
-20°	2150.4	1233.1	711.9	468.6	404.8	389.4	225.3	132.9	98.7	74.8	63.0



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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°	1814.4	1061.2	639.7	446.8	402.0	396.5	186.4	125.9	94.6	72.5	62.8
-25°	1433.5	869.9	561.6	435.5	408.5	351.6	159.9	118.0	89.9	69.9	62.5
-27.5°	1164.6	692.8	478.0	425.2	417.2	297.2	150.3	112.1	85.5	67.0	62.1
-30°	941.8	597.2	450.2	421.3	428.2	234.4	139.5	105.8	81.9	65.6	61.6
-32.5°	715.0	496.5	440.4	434.3	378.4	168.0	127.7	99.1	78.0	64.9	60.1
-35°	592.2	448.3	424.9	450.4	293.3	153.9	116.7	91.8	73.8	64.1	58.4
-37.5°	461.1	423.1	427.8	407.0	198.5	138.7	108.1	85.7	69.2	63.1	56.5
-40°	426.3	405.0	427.6	290.3	159.5	122.2	99.0	80.3	66.9	61.9	54.5
-42.5°	387.4	401.1	339.1	177.0	140.3	111.6	89.9	74.7	65.3	59.8	52.5
-45°	378.0	353.2	223.3	153.7	121.5	100.6	83.3	69.3	63.5	57.3	50.7
-47.5°	340.2	239.1	162.5	131.1	109.1	90.2	76.5	66.9	61.3	54.7	49.3
-50°	232.2	166.4	137.4	114.8	96.2	82.1	70.3	64.1	58.3	52.0	47.8
-52.5°	165.5	138.8	117.6	100.4	85.9	73.5	66.8	61.0	55.2	49.8	46.2
-55°	135.4	117.6	101.8	87.9	75.7	67.8	62.6	57.4	51.9	47.6	44.5
-57.5°	114.8	100.4	87.7	75.9	67.9	62.6	58.3	53.7	49.0	45.2	43.4
-60°	96.5	84.9	73.9	66.9	61.6	57.4	53.9	50.0	45.9	43.1	42.4
-62.5°	79.2	70.0	64.3	59.2	55.6	52.6	49.5	46.1	42.6	42.2	41.5
-65°	65.0	59.9	55.4	52.9	50.3	47.9	45.4	42.1	41.5	41.5	40.1
-67.5°	53.3	51.3	49.3	47.2	45.9	44.1	41.5	40.8	41.2	40.9	37.3
-70°	46.4	44.8	44.3	43.7	42.4	40.7	40.3	40.5	40.9	37.7	34.4
-72.5°	42.1	42.2	41.8	40.8	39.8	39.3	39.5	39.4	37.3	34.4	31.5
-75°	40.9	39.6	38.5	37.8	37.6	37.6	36.4	35.1	33.5	31.0	30.7
-77.5°	35.3	34.8	34.6	34.0	33.3	32.5	31.7	30.8	30.7	30.7	30.7
-80°	28.9	28.7	28.4	28.1	27.8	27.5	28.6	29.7	30.7	30.7	30.7
-82.5°	22.0	22.9	24.0	25.1	26.3	27.4	28.5	29.7	30.7	30.7	27.6
-85°	21.7	22.8	23.9	25.1	26.2	27.3	26.3	25.0	23.5	21.0	18.4
-87.5°	14.6	14.6	14.6	14.4	14.1	13.7	13.1	12.5	11.7	10.5	9.2
-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°	7.9	6.6	5.3	4.0	2.7	1.3	0.0
85°	15.9	13.3	10.6	8.0	5.3	2.7	0.0
82.5°	23.8	19.9	15.9	12.0	8.0	4.0	0.0
80°	30.7	26.5	21.2	15.9	10.6	5.3	0.0
77.5°	30.7	30.7	26.5	19.9	13.3	6.6	0.0
75°	30.7	30.7	30.7	23.8	15.9	7.9	0.0
72.5°	30.7	30.7	30.7	27.6	18.4	9.2	0.0
70°	31.0	30.7	30.7	30.7	21.0	10.5	0.0
67.5°	33.5	30.7	30.7	30.7	23.5	11.7	0.0
65°	35.9	31.7	30.7	30.7	25.9	13.0	0.0
62.5°	38.3	33.7	30.7	30.7	28.3	14.2	0.0
60°	40.6	35.6	30.7	30.7	30.7	15.3	0.0
57.5°	41.8	37.5	32.1	30.7	30.7	16.5	0.0
55°	42.8	39.4	33.6	30.7	30.7	17.6	0.0
52.5°	43.9	41.1	35.1	30.7	30.7	18.7	0.0
50°	45.0	42.1	36.4	30.7	30.7	19.7	0.0
47.5°	46.2	43.1	37.8	30.9	30.7	20.7	0.0
45°	47.4	44.1	39.1	31.9	30.7	21.7	0.0
42.5°	48.4	45.2	40.3	32.8	30.7	22.6	0.0
40°	49.3	46.3	41.3	33.7	30.7	23.5	0.0
37.5°	50.1	47.4	42.2	34.6	30.7	24.4	0.0
35°	50.8	48.2	43.0	35.3	30.7	25.1	0.0
32.5°	51.5	48.7	43.8	36.1	30.7	25.9	0.0
30°	52.4	49.2	44.6	36.8	30.7	26.6	0.0
27.5°	53.4	49.7	45.3	37.4	30.7	27.2	0.0
25°	54.3	50.0	46.1	38.0	30.7	27.8	0.0
22.5°	55.2	50.3	46.8	38.6	30.7	28.4	0.0
20°	56.1	50.6	47.5	39.0	30.7	28.8	0.0
17.5°	57.0	50.8	48.1	39.5	30.7	29.3	0.0
15°	57.8	50.9	48.8	39.9	30.7	29.7	0.0
12.5°	58.6	51.0	49.3	40.2	30.7	30.0	0.0
10°	59.4	51.1	49.8	40.4	30.7	30.2	0.0
7.5°	60.0	51.2	50.3	40.6	30.7	30.4	0.0
5°	60.6	51.2	50.6	40.8	30.7	30.6	0.0
2.5°	61.0	51.2	51.0	40.9	30.7	30.7	0.0
0°	61.4	51.2	51.2	40.9	30.7	30.7	0.0
-2.5°	61.3	51.2	51.0	40.9	30.7	30.7	0.0
-5°	61.2	51.2	50.6	40.8	30.7	30.6	0.0
-7.5°	60.9	51.2	50.3	40.6	30.7	30.4	0.0
-10°	60.4	51.1	49.8	40.4	30.7	30.2	0.0
-12.5°	59.9	51.0	49.3	40.2	30.7	30.0	0.0
-15°	59.3	50.9	48.8	39.9	30.7	29.7	0.0
-17.5°	58.5	50.8	48.1	39.5	30.7	29.3	0.0
-20°	57.6	50.6	47.5	39.0	30.7	28.8	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	56.6	50.3	46.8	38.6	30.7	28.4	0.0
-25°	55.6	50.0	46.1	38.0	30.7	27.8	0.0
-27.5°	54.4	49.7	45.3	37.4	30.7	27.2	0.0
-30°	53.0	49.2	44.6	36.8	30.7	26.6	0.0
-32.5°	51.6	48.7	43.8	36.1	30.7	25.9	0.0
-35°	50.8	48.2	43.0	35.3	30.7	25.1	0.0
-37.5°	50.1	47.4	42.2	34.6	30.7	24.4	0.0
-40°	49.3	46.3	41.3	33.7	30.7	23.5	0.0
-42.5°	48.4	45.2	40.3	32.8	30.7	22.6	0.0
-45°	47.4	44.1	39.1	31.9	30.7	21.7	0.0
-47.5°	46.2	43.1	37.8	30.9	30.7	20.7	0.0
-50°	45.0	42.1	36.4	30.7	30.7	19.7	0.0
-52.5°	43.9	41.1	35.1	30.7	30.7	18.7	0.0
-55°	42.8	39.4	33.6	30.7	30.7	17.6	0.0
-57.5°	41.8	37.5	32.1	30.7	30.7	16.5	0.0
-60°	40.6	35.6	30.7	30.7	30.7	15.3	0.0
-62.5°	38.3	33.7	30.7	30.7	28.3	14.2	0.0
-65°	35.9	31.7	30.7	30.7	25.9	13.0	0.0
-67.5°	33.5	30.7	30.7	30.7	23.5	11.7	0.0
-70°	31.0	30.7	30.7	30.7	21.0	10.5	0.0
-72.5°	30.7	30.7	30.7	27.6	18.4	9.2	0.0
-75°	30.7	30.7	30.7	23.8	15.9	7.9	0.0
-77.5°	30.7	30.7	26.5	19.9	13.3	6.6	0.0
-80°	30.7	26.5	21.2	15.9	10.6	5.3	0.0
-82.5°	23.8	19.9	15.9	12.0	8.0	4.0	0.0
-85°	15.9	13.3	10.6	8.0	5.3	2.7	0.0
-87.5°	7.9	6.6	5.3	4.0	2.7	1.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)