

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: P1306439 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS16-1200L-40-80-3L-A**

Issue Date: 2/3/2026

Test Information

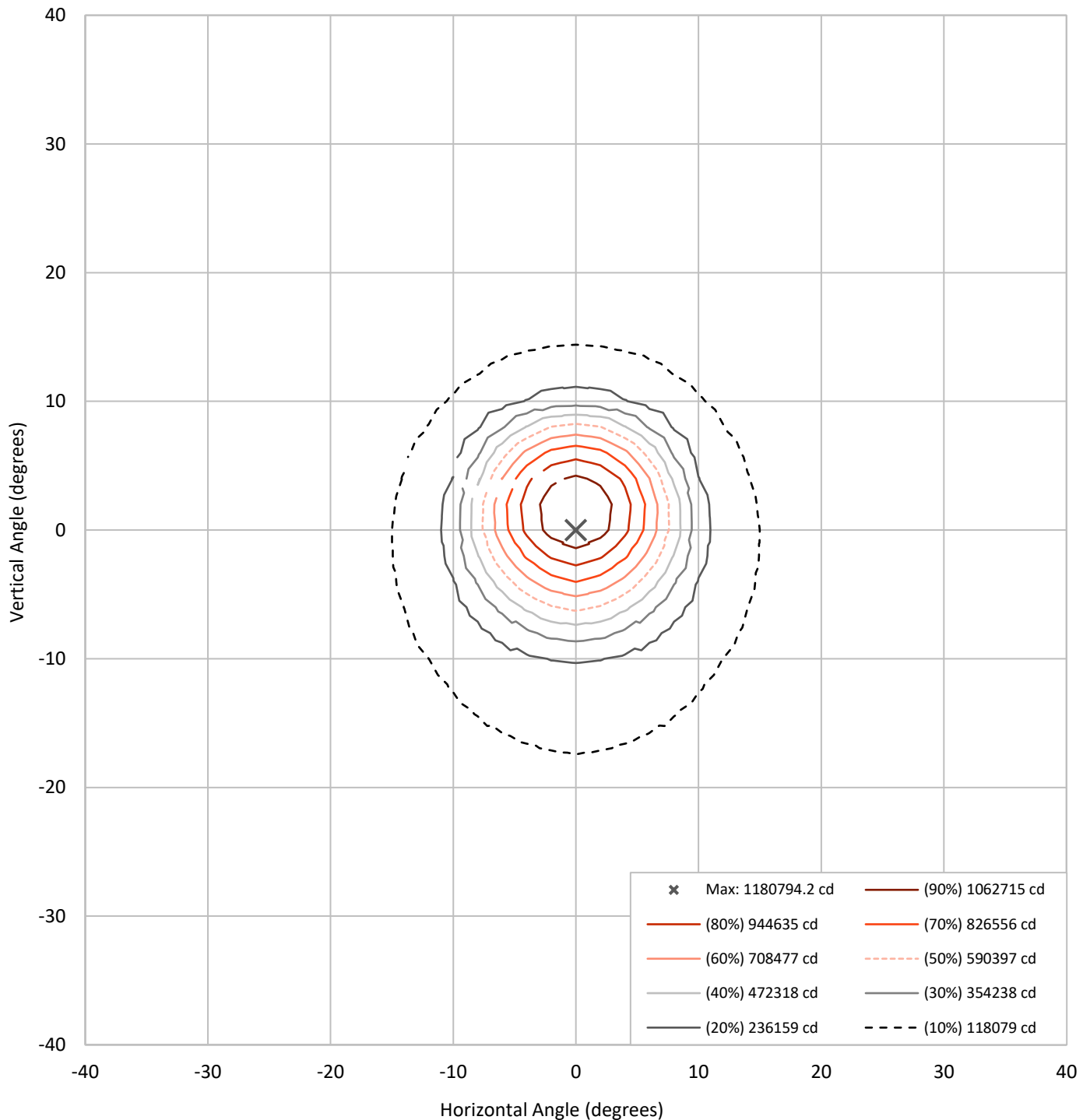
Test Method: LM-79-08
Report Number: P1306439 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-54)
Test Lab: INNOVATION CENTER
Issue Date: 2/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS16-1200L-40-80-3L-A
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 80 CRI LEDS AND 3L BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	154699.3 lumens	Max Intensity:	1180794.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	119.9 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	15.2°H x 14.5°V	Field Angle (10%):	29.6°H x 31.5°V
Beam Lumens:	43132.3 lumens	Field Lumens:	86077.6 lumens
Beam Efficiency:	27.9%	Field Efficiency:	55.6%
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		

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Iso-Candela Plot





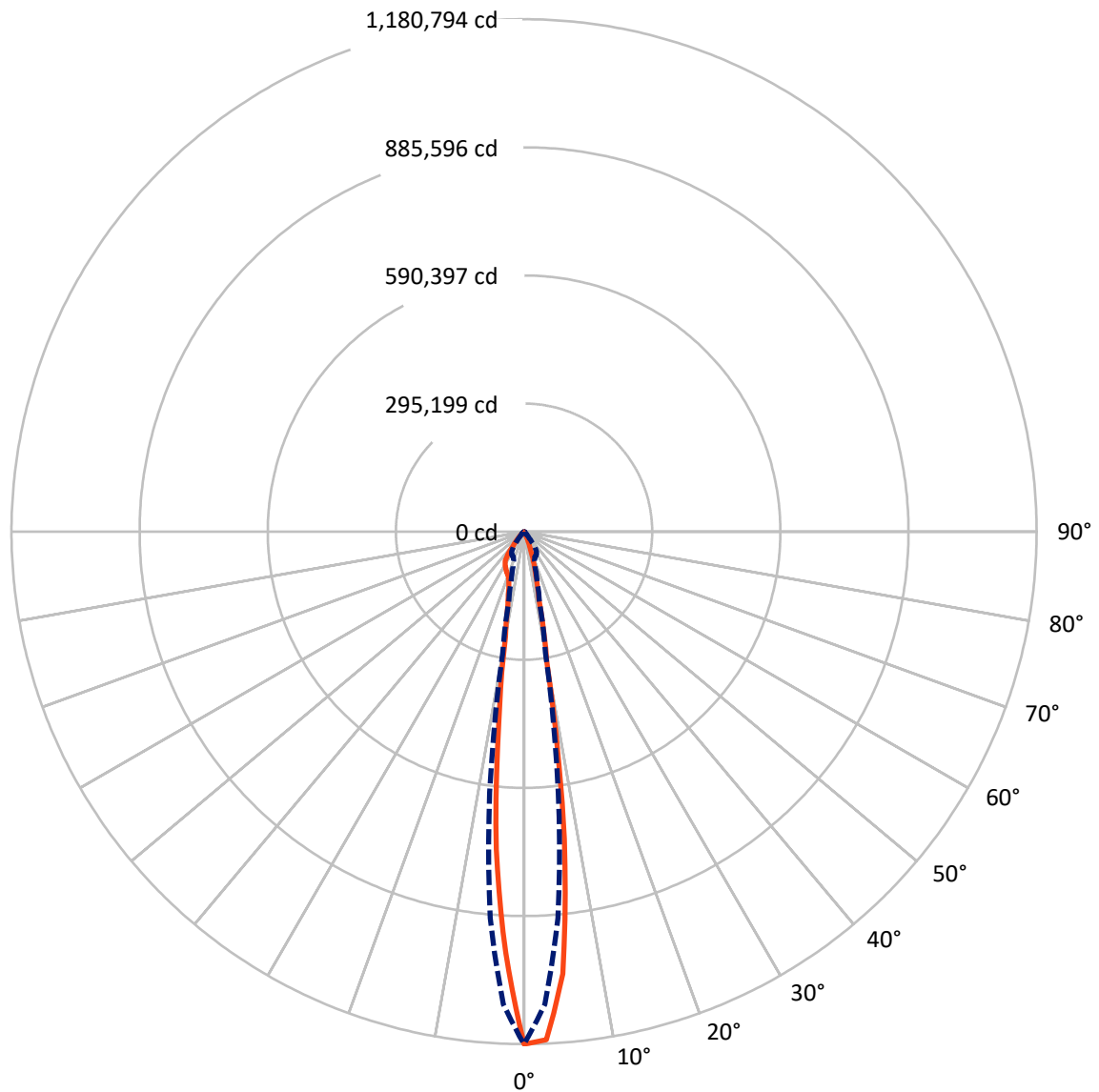
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Lumen Table

90	0.3	1.2	2.2	3.1	3.4	3.1	2.2	1.2	0.3									
80	0.3	1.2	2.2	3.1	3.4	3.1	2.2	1.2	0.3									
70	0.6	0.4	0.7	1.1	1.7	2.3	2.9	3.3	3.3	2.9	2.3	1.7	1.1	0.7	0.4	0.6		
60		0.5	1.0	2.0	3.4	6.0	11.6	24.3	24.3	11.6	6.0	3.4	2.0	1.0	0.5			
50	0.7	0.7	1.7	4.2	9.0	15.2	22.2	32.3	32.3	22.2	15.2	9.0	4.2	1.7	0.7	0.7		
40		0.9	3.2	8.7	16.7	27.0	42.6	59.8	59.8	42.6	27.0	16.7	8.7	3.2	0.9			
30	0.8	1.3	5.5	16.2	60.6	218.9	373.7	485.0	485.0	373.7	218.9	60.6	16.2	5.5	1.3	0.8		
20		1.7	9.0	41.2	362.4	973.3	1615.3	3157.6	3157.6	1615.3	973.3	362.4	41.2	9.0	1.7			
10	0.9	2.0	14.0	102.0	815.0	1560.2	3305.7	19168.8	19168.8	3305.7	1560.2	815.0	102.0	14.0	2.0	0.9		
0		2.3	18.5	153.9	1076.2	1882.7	3523.0	15397.5	15397.5	3523.0	1882.7	1076.2	153.9	18.5	2.3			
-10	0.8	2.2	16.3	135.3	944.7	2137.1	2771.7	4055.2	4055.2	2771.7	2137.1	944.7	135.3	16.3	2.2	0.8		
-20		1.7	10.1	69.2	480.4	1731.7	2577.9	2881.4	2881.4	2577.9	1731.7	480.4	69.2	10.1	1.7			
-30	0.7	1.1	5.5	22.2	143.6	611.0	1344.5	1827.4	1827.4	1344.5	611.0	143.6	22.2	5.5	1.1	0.7		
-40		0.7	2.7	7.5	26.1	111.9	266.2	389.1	389.1	266.2	111.9	26.1	7.5	2.7	0.7			
-50	0.5	0.5	1.3	3.2	6.2	11.8	25.7	38.1	38.1	25.7	11.8	6.2	3.2	1.3	0.5	0.5		
-60		0.4	0.7	1.3	2.2	3.4	4.7	5.2	5.2	4.7	3.4	2.2	1.3	0.7	0.4			
-70	0.3	0.3	1.2	2.1	2.9	3.2	2.9	2.1	1.2	0.3	0.3	1.2	2.1	2.9	3.2	0.3		
-80		0.3	1.2	2.1	2.9	3.2	2.9	2.1	1.2	0.3	0.3	1.2	2.1	2.9	3.2			
-90	0.3	1.2	2.1	2.9	3.2	2.9	2.1	1.2	0.3	0.3	1.2	2.1	2.9	3.2	2.9	2.1	1.2	0.3

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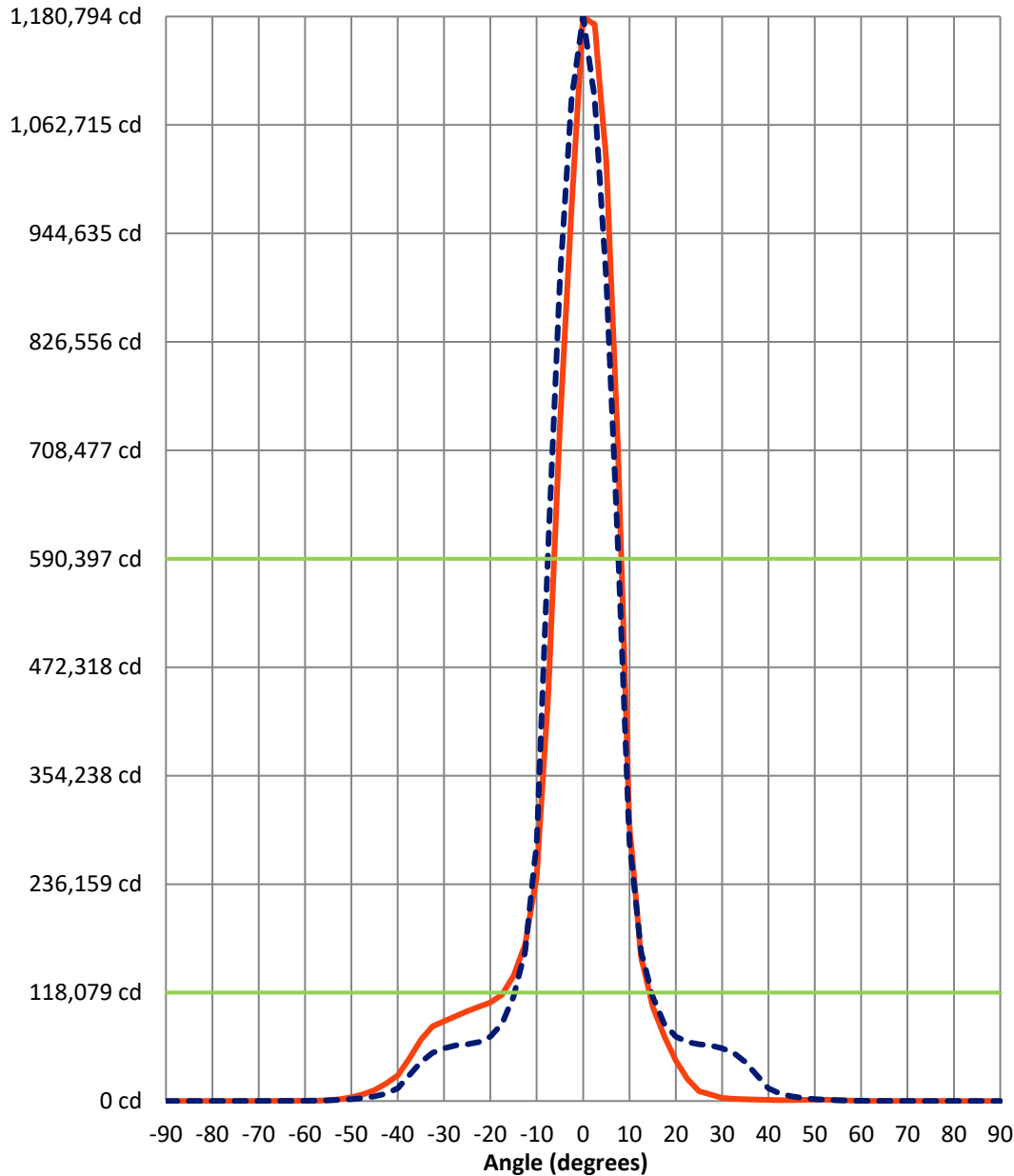
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 15.2°
 V Angle: 14.5°
 Lumens: 43132.3
 Efficiency: 27.9%

Field:
 H Angle: 29.6°
 V Angle: 31.5°
 Lumens: 86077.6
 Efficiency: 55.6%

Spill:
 Lumens: 68621.7
 Efficiency: 44.4%

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

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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.8	7.5
85°	0.0	1.6	3.1	4.6	6.2	7.7	9.2	10.7	12.2	13.6	15.0
82.5°	0.0	2.3	4.6	7.0	9.2	11.5	13.8	16.0	18.0	19.1	20.2
80°	0.0	3.1	6.2	9.2	12.3	15.3	18.1	19.6	21.0	22.5	23.9
77.5°	0.0	3.9	7.7	11.5	15.3	18.5	20.3	22.2	24.0	25.8	26.7
75°	0.0	4.6	9.2	13.8	18.1	20.3	22.6	24.8	26.7	26.7	26.7
72.5°	0.0	5.4	10.7	16.0	19.6	22.2	24.8	26.7	26.7	26.7	26.7
70°	0.0	6.1	12.2	18.0	21.0	24.0	26.7	26.7	26.7	26.8	29.6
67.5°	0.0	6.8	13.6	19.1	22.5	25.8	26.7	26.7	26.8	30.0	33.1
65°	0.0	7.5	15.0	20.2	23.9	26.7	26.7	26.7	29.6	33.1	35.6
62.5°	0.0	8.2	16.4	21.2	25.3	26.7	26.7	28.4	32.3	35.6	35.6
60°	0.0	8.9	17.8	22.2	26.6	26.7	26.7	30.8	35.1	35.6	35.6
57.5°	0.0	9.6	18.5	23.2	26.7	26.7	28.5	33.1	35.6	35.6	37.8
55°	0.0	10.2	19.1	24.2	26.7	26.7	30.4	35.4	35.6	36.2	41.1
52.5°	0.0	10.8	19.7	25.1	26.7	27.0	32.3	35.6	35.6	39.1	44.3
50°	0.0	11.4	20.3	26.0	26.7	28.5	34.1	35.6	36.3	41.9	46.1
47.5°	0.0	12.0	20.9	26.7	26.7	29.9	35.6	35.6	38.7	44.5	48.0
45°	0.0	12.6	21.5	26.7	26.7	31.3	35.6	35.6	41.0	46.8	50.3
42.5°	0.0	13.1	22.0	26.7	26.7	32.7	35.6	36.7	43.2	49.2	54.2
40°	0.0	13.6	22.5	26.7	27.2	34.0	35.6	38.5	45.3	51.9	57.8
37.5°	0.0	14.1	23.0	26.7	28.2	35.2	35.6	40.3	47.2	54.1	60.8
35°	0.0	14.6	23.5	26.7	29.1	35.6	35.6	41.9	49.1	56.2	64.2
32.5°	0.0	15.0	23.9	26.7	30.0	35.6	36.0	43.5	50.9	58.2	69.0
30°	0.0	15.4	24.3	26.7	30.8	35.6	37.2	44.9	52.5	60.1	73.8
27.5°	0.0	15.8	24.7	26.7	31.5	35.6	38.4	46.3	54.1	61.8	78.8
25°	0.0	16.1	25.0	26.7	32.2	35.6	39.4	47.5	55.5	65.0	84.0
22.5°	0.0	16.4	25.3	26.7	32.9	35.6	40.4	48.6	56.8	68.9	93.2
20°	0.0	16.7	25.6	26.7	33.4	35.6	41.3	49.6	57.9	72.7	101.5
17.5°	0.0	17.0	25.9	26.7	33.9	35.6	42.0	50.5	59.0	76.4	109.1
15°	0.0	17.2	26.1	26.7	34.4	35.6	42.7	51.3	59.9	79.8	115.8
12.5°	0.0	17.4	26.3	26.7	34.7	35.6	43.3	52.0	61.4	83.0	121.8
10°	0.0	17.5	26.4	26.7	35.1	35.6	43.8	52.5	63.4	85.5	127.0
7.5°	0.0	17.6	26.5	26.7	35.3	35.6	44.1	53.0	65.5	87.2	132.1
5°	0.0	17.7	26.6	26.7	35.5	35.6	44.4	53.3	67.6	88.3	136.5
2.5°	0.0	17.8	26.7	26.7	35.6	35.6	44.5	53.4	69.6	88.9	140.0
0°	0.0	17.8	26.7	26.7	35.6	35.6	44.6	53.5	71.3	89.1	142.6
-2.5°	0.0	17.8	26.7	26.7	35.6	35.6	44.5	53.4	71.2	90.8	148.2
-5°	0.0	17.7	26.6	26.7	35.5	35.6	44.4	53.3	70.7	92.0	152.5
-7.5°	0.0	17.6	26.5	26.7	35.3	35.6	44.1	53.0	70.0	92.7	155.2
-10°	0.0	17.5	26.4	26.7	35.1	35.6	43.8	52.5	69.0	92.8	156.0
-12.5°	0.0	17.4	26.3	26.7	34.7	35.6	43.3	52.0	67.8	92.0	151.8
-15°	0.0	17.2	26.1	26.7	34.4	35.6	42.7	51.3	66.3	89.4	144.5
-17.5°	0.0	17.0	25.9	26.7	33.9	35.6	42.0	50.5	64.4	86.3	135.6
-20°	0.0	16.7	25.6	26.7	33.4	35.6	41.3	49.6	62.4	82.8	124.9



REPORT NUMBER: P1306439 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-3L-A

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	16.4	25.3	26.7	32.9	35.6	40.4	48.6	60.1	78.8	112.6
-25°	0.0	16.1	25.0	26.7	32.2	35.5	39.4	47.5	57.5	74.4	98.6
-27.5°	0.0	15.8	24.7	26.7	31.5	35.2	38.4	46.3	54.6	70.2	92.8
-30°	0.0	15.4	24.3	26.7	30.8	34.8	37.2	44.9	52.5	66.7	87.0
-32.5°	0.0	15.0	23.9	26.7	29.8	34.3	36.0	43.5	50.9	63.0	80.7
-35°	0.0	14.6	23.5	26.7	28.9	33.8	35.3	41.9	49.1	59.0	74.0
-37.5°	0.0	14.1	23.0	26.7	28.0	32.9	34.6	40.3	47.2	54.7	68.4
-40°	0.0	13.6	22.5	26.7	27.1	31.7	33.8	38.5	45.3	51.9	63.4
-42.5°	0.0	13.1	22.0	26.7	26.7	30.6	32.8	36.7	43.2	49.5	58.2
-45°	0.0	12.6	21.5	26.7	26.7	29.5	31.6	35.0	41.0	47.1	53.1
-47.5°	0.0	12.0	20.9	26.7	26.7	28.5	30.3	33.4	38.7	44.5	50.3
-50°	0.0	11.4	20.3	26.0	26.7	27.6	29.2	31.5	36.3	41.9	47.3
-52.5°	0.0	10.8	19.7	25.1	26.7	26.8	28.4	29.3	33.9	39.1	44.3
-55°	0.0	10.2	19.1	24.2	26.7	26.7	27.7	27.1	31.4	36.2	41.1
-57.5°	0.0	9.6	18.5	23.2	26.7	26.7	27.1	26.8	28.8	33.3	37.8
-60°	0.0	8.9	17.8	22.2	26.6	26.7	26.7	26.7	26.7	30.4	34.5
-62.5°	0.0	8.2	16.4	21.2	25.3	26.7	26.7	26.7	26.7	27.3	31.2
-65°	0.0	7.5	15.0	20.2	23.9	26.7	26.7	26.6	26.7	26.7	27.7
-67.5°	0.0	6.8	13.6	19.1	22.5	25.8	26.7	26.3	26.7	26.7	26.7
-70°	0.0	6.1	12.2	18.0	21.0	24.0	26.7	25.8	25.6	26.7	26.7
-72.5°	0.0	5.4	10.7	16.0	19.6	22.2	24.8	25.3	24.3	24.6	26.1
-75°	0.0	4.6	9.2	13.8	18.1	20.3	22.6	23.4	22.9	22.3	22.7
-77.5°	0.0	3.9	7.7	11.5	15.3	18.5	20.3	21.3	21.2	20.2	19.1
-80°	0.0	3.1	6.2	9.2	12.3	15.3	18.1	19.2	19.5	19.1	18.0
-82.5°	0.0	2.3	4.6	7.0	9.2	11.5	13.8	16.0	17.9	18.1	17.8
-85°	0.0	1.6	3.1	4.6	6.2	7.7	9.2	10.7	12.2	13.6	15.0
-87.5°	0.0	0.8	1.6	2.3	3.1	3.9	4.6	5.4	6.1	6.8	7.5
-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: P1306439 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-3L-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°	8.2	8.9	9.6	10.2	10.8	11.4	12.0	12.6	13.1	13.6	14.1
85°	16.4	17.8	18.0	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
82.5°	20.4	20.1	19.3	17.9	17.8	17.8	18.0	18.9	19.2	19.2	18.7
80°	23.7	22.6	21.3	20.6	21.6	22.8	24.0	25.1	24.5	22.9	21.5
77.5°	25.5	24.7	24.7	25.5	26.7	26.7	26.7	26.7	26.2	26.0	26.4
75°	26.3	26.6	27.3	27.0	26.7	26.7	27.0	28.6	29.7	29.8	29.0
72.5°	28.2	29.2	29.1	27.8	28.7	30.8	32.8	34.8	34.8	34.5	35.9
70°	31.7	32.1	31.6	32.1	33.9	35.6	35.6	35.6	36.0	39.6	44.6
67.5°	35.0	34.0	34.4	35.7	35.6	35.6	35.6	40.0	45.6	50.7	54.1
65°	35.5	35.3	36.7	37.0	35.8	39.0	44.0	50.3	55.6	58.4	60.9
62.5°	35.6	38.0	39.3	39.3	40.7	45.1	52.1	57.9	62.0	67.5	73.0
60°	38.7	41.6	41.9	42.7	46.2	53.9	60.9	66.4	73.1	80.3	86.4
57.5°	42.3	43.9	43.8	47.8	55.9	63.1	68.2	75.0	84.8	93.1	100.3
55°	44.8	44.5	47.8	56.8	64.0	68.2	76.0	88.2	98.2	109.7	118.8
52.5°	45.8	46.5	55.9	64.0	68.6	77.3	90.6	104.5	118.3	130.8	143.6
50°	47.2	54.0	63.1	68.2	77.9	93.2	108.5	125.3	143.4	159.3	179.4
47.5°	52.0	60.7	67.0	75.3	93.9	112.3	130.4	153.6	174.6	202.0	231.2
45°	57.3	65.6	71.3	90.9	112.0	134.0	160.3	186.4	216.8	251.5	298.2
42.5°	61.9	70.4	85.3	106.9	133.1	161.8	192.9	226.1	262.5	312.5	372.7
40°	66.6	75.8	101.2	127.6	156.5	193.0	232.0	270.5	316.7	382.9	455.3
37.5°	71.6	90.5	118.1	148.6	185.8	228.6	273.0	325.9	387.1	458.9	537.2
35°	77.0	105.2	137.5	174.1	217.2	268.0	324.0	388.2	468.7	541.9	614.7
32.5°	87.0	119.8	156.7	203.4	254.9	311.2	375.4	466.7	552.7	629.5	682.5
30°	99.7	136.6	178.0	233.0	292.6	362.3	445.1	545.8	636.1	710.7	767.2
27.5°	111.5	153.3	204.4	265.6	332.0	415.5	527.3	624.7	716.5	799.9	870.5
25°	122.5	169.3	230.6	298.2	380.2	485.3	614.6	732.2	806.8	911.4	1104.2
22.5°	134.2	185.4	254.2	329.7	429.0	561.3	717.4	869.4	994.0	1079.6	1444.8
20°	147.0	205.3	278.8	365.1	479.9	637.5	831.6	1036.4	1250.7	1623.6	2498.0
17.5°	159.3	223.5	305.1	411.8	556.5	740.6	959.4	1228.6	1558.4	2312.1	4296.7
15°	170.9	239.9	331.3	459.7	642.5	888.7	1188.0	1522.6	2056.8	3366.2	6475.0
12.5°	181.8	254.5	356.8	508.0	732.8	1051.2	1466.4	2018.6	2937.1	5165.3	10730.6
10°	191.7	267.2	381.2	555.2	824.6	1222.5	1769.7	2586.8	3977.8	7154.9	15005.2
7.5°	197.9	276.1	404.4	600.3	914.9	1396.2	2085.5	3199.8	5048.6	9036.7	19112.2
5°	202.0	281.2	429.8	666.1	1040.1	1598.7	2419.6	3827.5	6109.2	10767.0	22901.1
2.5°	204.3	284.2	452.9	732.7	1184.7	1842.1	2819.3	4507.4	7119.8	12405.6	25943.9
0°	205.0	285.2	472.3	793.1	1318.9	2067.4	3190.2	5132.8	8029.0	13856.9	28061.3
-2.5°	218.1	317.4	512.2	838.0	1388.3	2209.3	3459.0	5620.0	9031.4	15487.4	29668.6
-5°	229.3	346.1	546.3	872.7	1437.4	2315.5	3667.1	5992.0	9766.7	16530.0	30135.0
-7.5°	238.0	369.9	574.0	891.0	1443.5	2331.9	3718.7	6070.6	9967.3	16719.9	29414.6
-10°	242.9	374.6	560.5	859.1	1392.9	2272.1	3666.6	5994.4	9871.9	16403.1	27892.9
-12.5°	238.2	363.3	536.3	815.8	1317.6	2162.5	3519.7	5747.2	9442.8	15535.6	25452.5
-15°	230.4	349.2	508.5	760.8	1216.3	1999.2	3269.2	5314.8	8563.1	13693.8	21482.2
-17.5°	219.2	332.5	477.4	693.8	1088.2	1779.0	2883.2	4589.3	7438.7	12015.8	18889.4
-20°	204.5	313.5	443.7	614.9	946.0	1531.0	2476.8	3992.8	6445.7	10298.4	15972.0



REPORT NUMBER: P1306439 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-3L-A

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	186.1	292.3	412.1	563.1	825.5	1292.1	2065.6	3298.1	5251.7	8269.1	13140.3
-25°	167.8	270.6	384.5	505.8	699.5	1038.8	1619.1	2556.5	4184.9	6801.4	10716.1
-27.5°	151.0	244.3	345.9	448.5	575.9	807.2	1277.9	2040.9	3267.3	5169.9	8125.8
-30°	132.2	210.3	306.7	395.0	499.3	670.7	976.2	1497.2	2362.6	3898.3	6181.8
-32.5°	111.5	176.3	267.2	350.8	436.8	541.1	716.4	1118.3	1744.9	2676.4	4336.3
-35°	95.1	151.8	227.7	306.9	377.4	457.4	585.4	797.0	1176.6	1868.7	2991.7
-37.5°	87.2	125.9	188.2	263.5	330.2	395.7	458.2	599.5	838.5	1191.1	2023.0
-40°	78.9	98.7	155.9	220.8	286.2	342.1	396.6	458.4	584.7	859.2	1246.3
-42.5°	70.6	88.7	124.9	178.3	240.8	298.0	340.4	382.0	442.1	576.4	842.9
-45°	64.6	78.8	96.2	142.9	192.1	251.9	298.0	328.8	361.8	408.8	539.2
-47.5°	58.3	69.5	85.2	108.9	150.7	196.9	253.6	290.4	313.5	336.8	352.6
-50°	52.7	62.4	74.4	91.6	116.9	150.3	191.9	245.2	278.5	294.8	308.4
-52.5°	49.3	55.1	65.9	79.6	95.6	117.9	144.4	178.6	226.5	264.6	276.4
-55°	45.9	50.5	57.1	68.6	82.3	97.2	113.1	135.3	155.1	197.6	237.2
-57.5°	42.3	46.7	50.9	57.6	69.3	82.4	93.9	105.1	122.5	139.1	160.9
-60°	38.7	42.7	46.7	50.5	55.7	67.3	77.8	87.7	97.6	107.3	122.4
-62.5°	34.9	38.7	42.3	45.9	49.3	54.0	63.4	72.3	79.5	87.8	96.1
-65°	31.2	34.5	37.8	41.1	44.3	47.9	52.9	59.2	66.9	72.3	77.3
-67.5°	27.3	30.4	33.3	36.2	38.9	41.1	44.5	49.0	54.5	59.2	63.6
-70°	26.7	26.7	28.8	31.4	33.3	33.7	35.3	38.0	41.9	45.9	49.9
-72.5°	26.7	26.7	26.7	26.7	28.4	29.3	29.1	27.8	29.8	34.7	38.7
-75°	24.4	26.5	26.7	26.7	26.2	26.1	26.8	26.9	27.2	28.8	31.0
-77.5°	20.4	22.1	23.8	25.4	25.1	23.6	22.8	22.7	23.8	25.1	26.3
-80°	17.8	17.8	19.1	20.3	20.8	20.5	19.6	18.1	17.8	18.3	19.3
-82.5°	17.8	17.8	17.8	17.8	17.8	17.8	17.9	17.8	17.8	17.8	17.8
-85°	16.4	17.8	17.8	17.8	17.8	17.8	17.8	17.8	16.7	15.8	15.1
-87.5°	8.2	8.9	9.6	10.2	10.8	11.4	12.0	12.6	11.5	10.2	8.8
-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: P1306439 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-3L-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°	14.6	13.2	11.6	9.9	8.1	8.2	8.4	8.5	8.6	6.5	4.4
85°	17.8	17.1	16.6	16.3	16.1	14.6	12.9	11.0	8.9	8.8	8.8
82.5°	17.9	17.8	17.8	17.8	17.8	17.3	17.0	16.9	16.9	17.2	17.4
80°	20.5	21.1	21.9	22.6	23.3	24.0	24.5	25.0	25.5	25.8	26.2
77.5°	26.7	27.0	28.0	29.3	31.1	32.2	32.9	33.5	34.1	34.5	34.9
75°	27.4	28.8	33.0	36.3	39.0	40.4	41.3	42.0	42.7	43.3	43.8
72.5°	38.8	42.5	44.9	46.3	47.5	48.6	49.6	50.5	51.3	52.0	52.5
70°	48.4	50.9	52.5	54.1	55.5	57.2	59.6	62.5	65.7	67.8	69.0
67.5°	56.2	58.2	60.1	61.8	64.5	68.0	71.8	74.8	77.0	79.2	82.1
65°	64.2	68.7	72.9	76.8	80.3	83.6	86.6	89.2	91.5	93.8	95.7
62.5°	78.2	83.2	87.8	92.1	96.1	100.7	105.7	110.1	114.0	117.9	122.7
60°	92.1	97.6	103.0	109.4	116.6	124.5	133.1	142.2	152.1	162.1	170.6
57.5°	107.8	113.3	119.6	132.5	144.6	156.0	174.7	201.5	230.7	263.3	320.3
55°	128.2	138.8	148.6	170.9	196.5	221.6	253.3	307.7	368.7	434.2	575.4
52.5°	156.0	180.3	204.2	233.9	276.3	318.9	365.3	446.1	531.8	620.2	798.8
50°	208.7	240.5	280.3	322.2	373.7	426.3	478.6	567.3	655.9	742.2	904.1
47.5°	274.1	318.9	368.1	414.1	471.3	523.3	568.7	639.2	715.0	780.0	884.6
45°	349.4	408.4	461.5	509.1	560.6	605.0	639.8	679.7	736.9	776.1	821.3
42.5°	438.1	496.9	551.5	596.7	637.6	677.4	710.4	738.3	781.0	820.8	855.8
40°	522.4	579.7	628.7	673.8	712.6	751.4	805.9	852.8	904.0	973.5	1042.0
37.5°	602.6	653.0	699.0	743.7	802.8	869.7	934.8	1011.2	1098.0	1223.1	1348.7
35°	673.9	721.8	766.2	829.8	908.9	987.9	1086.1	1229.7	1365.8	1520.9	1677.2
32.5°	737.8	793.5	856.8	937.6	1039.2	1229.5	1316.3	1517.6	1638.9	1833.9	2054.9
30°	803.6	897.0	1101.9	1222.5	1484.3	1843.5	1884.1	2090.8	2347.3	2515.3	2995.6
27.5°	982.4	1235.2	1708.0	2569.1	2746.3	3263.7	3864.1	3606.2	4745.2	4581.2	6197.7
25°	1462.2	2028.8	3866.5	5528.9	6294.3	6954.9	8435.1	8888.3	10940.7	12237.8	12580.1
22.5°	2563.9	5027.8	7688.2	10034.8	12200.9	13970.1	15876.2	18688.0	19949.5	20587.2	21141.8
20°	4616.9	9122.7	13180.4	16543.8	19640.0	22604.6	26100.6	28187.0	29510.8	32244.3	35066.6
17.5°	8959.7	14487.8	19459.6	23676.6	27755.5	32362.2	35290.9	37663.6	41251.4	46145.1	51718.4
15°	14006.6	20535.3	26062.8	31145.6	36337.3	40807.1	43654.3	47331.8	53120.6	60697.1	70224.1
12.5°	19340.0	26572.7	32539.4	38175.3	44565.9	47604.2	50834.7	56207.7	64267.2	75214.2	94649.5
10°	24603.4	32252.9	38628.8	44639.9	49831.3	52922.6	56597.7	62972.5	75539.2	95798.4	124333.0
7.5°	29782.0	37909.3	44282.2	50083.7	53921.0	56658.7	61305.3	70417.9	87877.4	115904.7	160028.1
5°	34750.5	43258.1	49299.0	54288.1	56958.4	59574.4	64892.4	76633.0	100653.4	138910.5	214510.9
2.5°	39066.7	48140.6	53666.6	57680.6	59458.3	61956.8	67881.8	81192.0	109413.3	157149.4	276223.9
0°	42390.5	52415.6	57405.8	60560.4	61825.8	64231.8	70237.9	84183.9	113956.2	163324.2	282947.9
-2.5°	44807.7	55828.5	60716.5	63444.1	64580.5	66621.4	72264.8	85047.6	112934.6	159567.5	263376.1
-5°	45866.9	57927.1	63578.3	66439.7	67783.1	69574.6	74322.3	85480.3	108471.5	144393.5	210288.8
-7.5°	45491.1	58904.9	66054.9	69338.8	70999.7	72773.4	76595.8	84948.7	101331.0	127429.4	168165.1
-10°	43751.8	58836.7	68012.6	72006.7	74394.8	76222.9	78803.4	83769.3	94300.8	113224.0	137055.9
-12.5°	40592.0	57322.4	69449.4	74290.6	77379.4	79583.2	82006.8	85688.4	91578.8	100506.6	117830.1
-15°	36398.1	53696.5	67728.1	75243.9	79332.3	82608.6	85262.5	87621.0	91495.8	97055.9	104842.2
-17.5°	31311.2	47854.3	63714.1	75331.3	80481.6	84396.0	87300.5	90097.7	92538.4	96198.4	99816.2
-20°	24746.0	40595.0	57584.8	71049.7	79582.9	84413.8	88225.0	90961.3	93470.3	95797.6	98216.4



REPORT NUMBER: P1306439 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-3L-A

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	20296.1	32631.4	48390.9	64752.5	75346.5	82317.3	87037.6	89987.5	92765.8	94467.3	96335.4
-25°	16304.9	24196.9	38354.3	53294.0	67339.4	77074.9	83356.2	87356.2	89843.1	91819.0	93228.2
-27.5°	12748.8	19222.5	27912.7	41541.7	55080.6	67004.3	75478.8	82839.7	85421.0	87866.3	89123.8
-30°	9303.3	14381.8	21295.4	29710.6	41363.0	52159.3	62517.7	70761.2	77215.2	81964.3	83759.1
-32.5°	6856.4	10116.5	15330.1	21748.7	27927.2	37294.0	46278.2	54740.3	62524.8	68907.9	73452.1
-35°	4676.8	7105.3	10018.7	14906.9	19736.7	25009.3	30732.3	38030.4	44156.5	51168.4	57183.2
-37.5°	3161.7	4731.5	6951.8	9599.4	13418.4	17007.3	20911.5	24789.5	28379.5	34044.3	39035.8
-40°	2063.5	3051.4	4606.8	6422.9	8868.0	11171.2	14069.5	16544.8	19147.5	22218.6	24846.5
-42.5°	1226.5	1951.6	2838.2	4153.3	5626.7	7233.5	9125.6	10901.7	12668.8	14513.7	16158.6
-45°	746.7	1143.2	1660.4	2485.6	3303.5	4444.2	5567.7	6599.3	7933.8	9112.7	10072.2
-47.5°	477.4	622.9	945.4	1348.4	1828.6	2522.8	3200.2	3886.7	4728.7	5480.3	6079.2
-50°	332.2	392.7	524.8	659.4	949.0	1286.5	1612.2	2033.7	2541.9	3003.9	3368.4
-52.5°	286.5	308.0	334.3	384.1	502.5	619.8	735.0	973.8	1216.9	1435.0	1606.3
-55°	257.9	266.1	273.4	295.9	323.6	352.1	392.7	483.7	571.3	654.0	713.7
-57.5°	194.9	223.7	243.4	252.5	262.1	272.1	291.7	315.3	335.7	352.3	362.2
-60°	136.8	150.5	175.5	198.6	217.5	232.4	245.0	258.1	270.2	279.0	278.9
-62.5°	104.0	114.4	127.7	140.9	153.3	167.6	183.9	199.6	214.5	225.4	228.9
-65°	82.9	89.6	97.2	105.4	114.2	124.5	132.8	141.1	149.1	154.9	157.7
-67.5°	67.9	71.9	75.6	79.1	84.2	90.2	95.5	100.2	104.3	107.8	110.7
-70°	53.6	57.2	60.5	63.5	66.4	69.0	71.3	73.3	75.2	76.7	77.9
-72.5°	41.6	43.5	45.3	47.9	50.4	52.6	54.7	56.5	58.0	59.4	60.4
-75°	33.9	36.0	37.2	38.4	39.4	40.4	41.3	42.0	42.7	43.3	43.8
-77.5°	27.4	27.2	26.9	27.0	27.4	28.7	30.2	31.4	32.5	33.5	34.2
-80°	20.2	20.4	20.0	19.2	18.0	17.2	16.8	16.6	16.6	16.9	17.3
-82.5°	17.8	16.8	16.1	15.6	15.3	14.2	12.7	10.9	9.0	8.7	8.7
-85°	14.6	13.5	12.2	10.7	9.0	8.9	8.9	8.9	8.9	6.7	4.5
-87.5°	7.3	7.5	7.7	7.9	8.1	8.2	8.4	8.5	8.6	6.5	4.4
-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: P1306439 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-3L-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°	2.2	0.0	0.0	0.0	0.0	0.0	2.2	4.4	6.5	8.6	8.5
85°	8.8	8.8	8.9	8.9	8.9	8.8	8.8	8.8	8.8	8.9	11.0
82.5°	17.6	17.7	17.8	17.8	17.8	17.7	17.6	17.4	17.2	16.9	16.9
80°	26.4	26.6	26.7	26.7	26.7	26.6	26.4	26.2	25.8	25.5	25.0
77.5°	35.2	35.4	35.6	35.6	35.6	35.4	35.2	34.9	34.5	34.1	33.5
75°	44.1	44.4	44.5	44.6	44.5	44.4	44.1	43.8	43.3	42.7	42.0
72.5°	53.0	53.3	53.4	53.5	53.4	53.3	53.0	52.5	52.0	51.3	50.5
70°	70.0	70.7	71.2	71.3	71.2	70.7	70.0	69.0	67.8	65.7	62.5
67.5°	85.1	88.1	88.9	89.1	88.9	88.1	85.1	82.1	79.2	77.0	74.8
65°	96.9	97.6	97.9	98.0	97.9	97.6	96.9	95.7	93.8	91.5	89.2
62.5°	127.3	131.5	133.3	133.7	133.3	131.5	127.3	122.7	117.9	114.0	110.1
60°	177.8	183.7	190.1	196.0	190.1	183.7	177.8	170.6	162.1	152.1	142.2
57.5°	383.7	449.3	502.2	543.6	502.2	449.3	383.7	320.3	263.3	230.7	201.5
55°	732.1	893.4	1008.7	1087.2	1008.7	893.4	732.1	575.4	434.2	368.7	307.7
52.5°	1004.5	1211.3	1347.1	1425.8	1347.1	1211.3	1004.5	798.8	620.2	531.8	446.1
50°	1108.2	1310.3	1437.3	1497.1	1437.3	1310.3	1108.2	904.1	742.2	655.9	567.3
47.5°	1030.7	1167.4	1264.8	1327.8	1264.8	1167.4	1030.7	884.6	780.0	715.0	639.2
45°	899.3	964.1	1005.2	1024.8	1005.2	964.1	899.3	821.3	776.1	736.9	679.7
42.5°	913.5	957.2	980.6	980.2	980.6	957.2	913.5	855.8	820.8	781.0	738.3
40°	1127.0	1204.7	1259.9	1274.3	1259.9	1204.7	1127.0	1042.0	973.5	904.0	852.8
37.5°	1454.9	1530.6	1575.6	1577.3	1575.6	1530.6	1454.9	1348.7	1223.1	1098.0	1011.2
35°	1806.6	1898.6	1962.7	1951.5	1962.7	1898.6	1806.6	1677.2	1520.9	1365.8	1229.7
32.5°	2196.8	2305.4	2382.7	2397.1	2382.7	2305.4	2196.8	2054.9	1833.9	1638.9	1517.6
30°	3191.1	3363.1	3408.8	3395.2	3408.8	3363.1	3191.1	2995.6	2515.3	2347.3	2090.8
27.5°	6866.2	7179.2	7043.2	7102.2	7043.2	7179.2	6866.2	6197.7	4581.2	4745.2	3606.2
25°	12431.2	11915.7	11266.2	10782.5	11266.2	11915.7	12431.2	12580.1	12237.8	10940.7	8888.3
22.5°	22716.8	23474.0	24055.5	24104.8	24055.5	23474.0	22716.8	21141.8	20587.2	19949.5	18688.0
20°	38763.3	41377.7	43268.4	44199.5	43268.4	41377.7	38763.3	35066.6	32244.3	29510.8	28187.0
17.5°	58549.3	64617.0	68387.8	70817.2	68387.8	64617.0	58549.3	51718.4	46145.1	41251.4	37663.6
15°	82937.9	95276.9	102279.6	103298.4	102279.6	95276.9	82937.9	70224.1	60697.1	53120.6	47331.8
12.5°	114464.0	135905.4	152381.7	157465.1	152381.7	135905.4	114464.0	94649.5	75214.2	64267.2	56207.7
10°	160378.4	212506.4	285052.8	301634.6	285052.8	212506.4	160378.4	124333.0	95798.4	75539.2	62972.5
7.5°	262370.0	456935.4	663120.6	713407.1	663120.6	456935.4	262370.0	160028.1	115904.7	87877.4	70417.9
5°	438790.0	799720.5	970691.3	#####	970691.3	799720.5	438790.0	214510.9	138910.5	100653.4	76633.0
2.5°	601620.7	920567.4	#####	#####	#####	920567.4	601620.7	276223.9	157149.4	109413.3	81192.0
0°	605670.9	893827.3	#####	#####	#####	893827.3	605670.9	282947.9	163324.2	113956.2	84183.9
-2.5°	495220.3	748875.8	912662.4	971385.8	912662.4	748875.8	495220.3	263376.1	159567.5	112934.6	85047.6
-5°	333550.6	528643.6	672747.0	735235.0	672747.0	528643.6	333550.6	210288.8	144393.5	108471.5	85480.3
-7.5°	230396.6	319008.4	417795.0	445011.1	417795.0	319008.4	230396.6	168165.1	127429.4	101331.0	84948.7
-10°	169890.8	203429.7	238263.8	246073.4	238263.8	203429.7	169890.8	137055.9	113224.0	94300.8	83769.3
-12.5°	134962.6	153145.2	168458.4	170805.1	168458.4	153145.2	134962.6	117830.1	100506.6	91578.8	85688.4
-15°	115563.5	125760.9	132509.2	136412.4	132509.2	125760.9	115563.5	104842.2	97055.9	91495.8	87621.0
-17.5°	105455.8	110131.6	113383.0	115854.3	113383.0	110131.6	105455.8	99816.2	96198.4	92538.4	90097.7
-20°	100875.7	103287.5	105617.7	107317.4	105617.7	103287.5	100875.7	98216.4	95797.6	93470.3	90961.3



REPORT NUMBER: P1306439 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-3L-A

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	97904.2	99565.4	101016.0	102630.1	101016.0	99565.4	97904.2	96335.4	94467.3	92765.8	89987.5
-25°	94378.0	95628.4	96722.6	97818.1	96722.6	95628.4	94378.0	93228.2	91819.0	89843.1	87356.2
-27.5°	90047.6	90926.3	91571.3	92346.6	91571.3	90926.3	90047.6	89123.8	87866.3	85421.0	82839.7
-30°	85031.9	85888.8	86302.2	86946.4	86302.2	85888.8	85031.9	83759.1	81964.3	77215.2	70761.2
-32.5°	76706.2	78779.5	80074.3	81252.2	80074.3	78779.5	76706.2	73452.1	68907.9	62524.8	54740.3
-35°	61327.4	63719.0	65177.4	66709.1	65177.4	63719.0	61327.4	57183.2	51168.4	44156.5	38030.4
-37.5°	42310.9	44080.7	45056.4	46168.8	45056.4	44080.7	42310.9	39035.8	34044.3	28379.5	24789.5
-40°	26474.3	27511.3	27992.2	27874.2	27992.2	27511.3	26474.3	24846.5	22218.6	19147.5	16544.8
-42.5°	17268.4	17983.9	18512.8	19061.0	18512.8	17983.9	17268.4	16158.6	14513.7	12668.8	10901.7
-45°	10863.5	11489.1	11861.5	11923.2	11861.5	11489.1	10863.5	10072.2	9112.7	7933.8	6599.3
-47.5°	6502.1	6804.9	7061.2	7280.4	7061.2	6804.9	6502.1	6079.2	5480.3	4728.7	3886.7
-50°	3634.7	3824.1	3979.8	4099.1	3979.8	3824.1	3634.7	3368.4	3003.9	2541.9	2033.7
-52.5°	1742.2	1845.6	1929.1	1987.2	1929.1	1845.6	1742.2	1606.3	1435.0	1216.9	973.8
-55°	760.0	793.2	819.9	837.7	819.9	793.2	760.0	713.7	654.0	571.3	483.7
-57.5°	370.7	377.4	374.6	365.4	374.6	377.4	370.7	362.2	352.3	335.7	315.3
-60°	277.7	275.3	275.6	276.2	275.6	275.3	277.7	278.9	279.0	270.2	258.1
-62.5°	230.2	229.6	230.9	231.7	230.9	229.6	230.2	228.9	225.4	214.5	199.6
-65°	159.0	159.0	159.9	160.4	159.9	159.0	159.0	157.7	154.9	149.1	141.1
-67.5°	112.9	114.5	115.5	115.8	115.5	114.5	112.9	110.7	107.8	104.3	100.2
-70°	78.9	79.6	84.2	89.1	84.2	79.6	78.9	77.9	76.7	75.2	73.3
-72.5°	61.3	61.9	62.3	62.4	62.3	61.9	61.3	60.4	59.4	58.0	56.5
-75°	44.1	44.4	44.5	44.6	44.5	44.4	44.1	43.8	43.3	42.7	42.0
-77.5°	34.8	35.3	35.5	35.6	35.5	35.3	34.8	34.2	33.5	32.5	31.4
-80°	17.5	17.7	22.1	26.7	22.1	17.7	17.5	17.3	16.9	16.6	16.6
-82.5°	8.7	8.8	8.9	8.9	8.9	8.8	8.7	8.7	8.7	9.0	10.9
-85°	2.3	0.0	0.0	0.0	0.0	0.0	2.3	4.5	6.7	8.9	8.9
-87.5°	2.2	0.0	0.0	0.0	0.0	0.0	2.2	4.4	6.5	8.6	8.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	8.2	8.1	9.9	11.6	13.2	14.6	14.1	13.6	13.1	12.6
85°	12.9	14.6	16.1	16.3	16.6	17.1	17.8	17.8	17.8	17.8	17.8
82.5°	17.0	17.3	17.8	17.8	17.8	17.8	17.9	18.7	19.2	19.2	18.9
80°	24.5	24.0	23.3	22.6	21.9	21.1	20.5	21.5	22.9	24.5	25.1
77.5°	32.9	32.2	31.1	29.3	28.0	27.0	26.7	26.4	26.0	26.2	26.7
75°	41.3	40.4	39.0	36.3	33.0	28.8	27.4	29.0	29.8	29.7	28.6
72.5°	49.6	48.6	47.5	46.3	44.9	42.5	38.8	35.9	34.5	34.8	34.8
70°	59.6	57.2	55.5	54.1	52.5	50.9	48.4	44.6	39.6	36.0	35.6
67.5°	71.8	68.0	64.5	61.8	60.1	58.2	56.2	54.1	50.7	45.6	40.0
65°	86.6	83.6	80.3	76.8	72.9	68.7	64.2	60.9	58.4	55.6	50.3
62.5°	105.7	100.7	96.1	92.1	87.8	83.2	78.2	73.0	67.5	62.0	57.9
60°	133.1	124.5	116.6	109.4	103.0	97.6	92.1	86.4	80.3	73.1	66.4
57.5°	174.7	156.0	144.6	132.5	119.6	113.3	107.8	100.3	93.1	84.8	75.0
55°	253.3	221.6	196.5	170.9	148.6	138.8	128.2	118.8	109.7	98.2	88.2
52.5°	365.3	318.9	276.3	233.9	204.2	180.3	156.0	143.6	130.8	118.3	104.5
50°	478.6	426.3	373.7	322.2	280.3	240.5	208.7	179.4	159.3	143.4	125.3
47.5°	568.7	523.3	471.3	414.1	368.1	318.9	274.1	231.2	202.0	174.6	153.6
45°	639.8	605.0	560.6	509.1	461.5	408.4	349.4	298.2	251.5	216.8	186.4
42.5°	710.4	677.4	637.6	596.7	551.5	496.9	438.1	372.7	312.5	262.5	226.1
40°	805.9	751.4	712.6	673.8	628.7	579.7	522.4	455.3	382.9	316.7	270.5
37.5°	934.8	869.7	802.8	743.7	699.0	653.0	602.6	537.2	458.9	387.1	325.9
35°	1086.1	987.9	908.9	829.8	766.2	721.8	673.9	614.7	541.9	468.7	388.2
32.5°	1316.3	1229.5	1039.2	937.6	856.8	793.5	737.8	682.5	629.5	552.7	466.7
30°	1884.1	1843.5	1484.3	1222.5	1101.9	897.0	803.6	767.2	710.7	636.1	545.8
27.5°	3864.1	3263.7	2746.3	2569.1	1708.0	1235.2	982.4	870.5	799.9	716.5	624.7
25°	8435.1	6954.9	6294.3	5528.9	3866.5	2028.8	1462.2	1104.2	911.4	806.8	732.2
22.5°	15876.2	13970.1	12200.9	10034.8	7688.2	5027.8	2563.9	1444.8	1079.6	994.0	869.4
20°	26100.6	22604.6	19640.0	16543.8	13180.4	9122.7	4616.9	2498.0	1623.6	1250.7	1036.4
17.5°	35290.9	32362.2	27755.5	23676.6	19459.6	14487.8	8959.7	4296.7	2312.1	1558.4	1228.6
15°	43654.3	40807.1	36337.3	31145.6	26062.8	20535.3	14006.6	6475.0	3366.2	2056.8	1522.6
12.5°	50834.7	47604.2	44565.9	38175.3	32539.4	26572.7	19340.0	10730.6	5165.3	2937.1	2018.6
10°	56597.7	52922.6	49831.3	44639.9	38628.8	32252.9	24603.4	15005.2	7154.9	3977.8	2586.8
7.5°	61305.3	56658.7	53921.0	50083.7	44282.2	37909.3	29782.0	19112.2	9036.7	5048.6	3199.8
5°	64892.4	59574.4	56958.4	54288.1	49299.0	43258.1	34750.5	22901.1	10767.0	6109.2	3827.5
2.5°	67881.8	61956.8	59458.3	57680.6	53666.6	48140.6	39066.7	25943.9	12405.6	7119.8	4507.4
0°	70237.9	64231.8	61825.8	60560.4	57405.8	52415.6	42390.5	28061.3	13856.9	8029.0	5132.8
-2.5°	72264.8	66621.4	64580.5	63444.1	60716.5	55828.5	44807.7	29668.6	15487.4	9031.4	5620.0
-5°	74322.3	69574.6	67783.1	66439.7	63578.3	57927.1	45866.9	30135.0	16530.0	9766.7	5992.0
-7.5°	76595.8	72773.4	70999.7	69338.8	66054.9	58904.9	45491.1	29414.6	16719.9	9967.3	6070.6
-10°	78803.4	76222.9	74394.8	72006.7	68012.6	58836.7	43751.8	27892.9	16403.1	9871.9	5994.4
-12.5°	82006.8	79583.2	77379.4	74290.6	69449.4	57322.4	40592.0	25452.5	15535.6	9442.8	5747.2
-15°	85262.5	82608.6	79332.3	75243.9	67728.1	53696.5	36398.1	21482.2	13693.8	8563.1	5314.8
-17.5°	87300.5	84396.0	80481.6	75331.3	63714.1	47854.3	31311.2	18889.4	12015.8	7438.7	4589.3
-20°	88225.0	84413.8	79582.9	71049.7	57584.8	40595.0	24746.0	15972.0	10298.4	6445.7	3992.8



REPORT NUMBER: P1306439 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-3L-A

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	87037.6	82317.3	75346.5	64752.5	48390.9	32631.4	20296.1	13140.3	8269.1	5251.7	3298.1
-25°	83356.2	77074.9	67339.4	53294.0	38354.3	24196.9	16304.9	10716.1	6801.4	4184.9	2556.5
-27.5°	75478.8	67004.3	55080.6	41541.7	27912.7	19222.5	12748.8	8125.8	5169.9	3267.3	2040.9
-30°	62517.7	52159.3	41363.0	29710.6	21295.4	14381.8	9303.3	6181.8	3898.3	2362.6	1497.2
-32.5°	46278.2	37294.0	27927.2	21748.7	15330.1	10116.5	6856.4	4336.3	2676.4	1744.9	1118.3
-35°	30732.3	25009.3	19736.7	14906.9	10018.7	7105.3	4676.8	2991.7	1868.7	1176.6	797.0
-37.5°	20911.5	17007.3	13418.4	9599.4	6951.8	4731.5	3161.7	2023.0	1191.1	838.5	599.5
-40°	14069.5	11171.2	8868.0	6422.9	4606.8	3051.4	2063.5	1246.3	859.2	584.7	458.4
-42.5°	9125.6	7233.5	5626.7	4153.3	2838.2	1951.6	1226.5	842.9	576.4	442.1	382.0
-45°	5567.7	4444.2	3303.5	2485.6	1660.4	1143.2	746.7	539.2	408.8	361.8	328.8
-47.5°	3200.2	2522.8	1828.6	1348.4	945.4	622.9	477.4	352.6	336.8	313.5	290.4
-50°	1612.2	1286.5	949.0	659.4	524.8	392.7	332.2	308.4	294.8	278.5	245.2
-52.5°	735.0	619.8	502.5	384.1	334.3	308.0	286.5	276.4	264.6	226.5	178.6
-55°	392.7	352.1	323.6	295.9	273.4	266.1	257.9	237.2	197.6	155.1	135.3
-57.5°	291.7	272.1	262.1	252.5	243.4	223.7	194.9	160.9	139.1	122.5	105.1
-60°	245.0	232.4	217.5	198.6	175.5	150.5	136.8	122.4	107.3	97.6	87.7
-62.5°	183.9	167.6	153.3	140.9	127.7	114.4	104.0	96.1	87.8	79.5	72.3
-65°	132.8	124.5	114.2	105.4	97.2	89.6	82.9	77.3	72.3	66.9	59.2
-67.5°	95.5	90.2	84.2	79.1	75.6	71.9	67.9	63.6	59.2	54.5	49.0
-70°	71.3	69.0	66.4	63.5	60.5	57.2	53.6	49.9	45.9	41.9	38.0
-72.5°	54.7	52.6	50.4	47.9	45.3	43.5	41.6	38.7	34.7	29.8	27.8
-75°	41.3	40.4	39.4	38.4	37.2	36.0	33.9	31.0	28.8	27.2	26.9
-77.5°	30.2	28.7	27.4	27.0	26.9	27.2	27.4	26.3	25.1	23.8	22.7
-80°	16.8	17.2	18.0	19.2	20.0	20.4	20.2	19.3	18.3	17.8	18.1
-82.5°	12.7	14.2	15.3	15.6	16.1	16.8	17.8	17.8	17.8	17.8	17.8
-85°	8.9	8.9	9.0	10.7	12.2	13.5	14.6	15.1	15.8	16.7	17.8
-87.5°	8.4	8.2	8.1	7.9	7.7	7.5	7.3	8.8	10.2	11.5	12.6
-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: P1306439 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-3L-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°	12.0	11.4	10.8	10.2	9.6	8.9	8.2	7.5	6.8	6.1	5.4
85°	17.8	17.8	17.8	17.8	18.0	17.8	16.4	15.0	13.6	12.2	10.7
82.5°	18.0	17.8	17.8	17.9	19.3	20.1	20.4	20.2	19.1	18.0	16.0
80°	24.0	22.8	21.6	20.6	21.3	22.6	23.7	23.9	22.5	21.0	19.6
77.5°	26.7	26.7	26.7	25.5	24.7	24.7	25.5	26.7	25.8	24.0	22.2
75°	27.0	26.7	26.7	27.0	27.3	26.6	26.3	26.7	26.7	26.7	24.8
72.5°	32.8	30.8	28.7	27.8	29.1	29.2	28.2	26.7	26.7	26.7	26.7
70°	35.6	35.6	33.9	32.1	31.6	32.1	31.7	29.6	26.8	26.7	26.7
67.5°	35.6	35.6	35.6	35.7	34.4	34.0	35.0	33.1	30.0	26.8	26.7
65°	44.0	39.0	35.8	37.0	36.7	35.3	35.5	35.6	33.1	29.6	26.7
62.5°	52.1	45.1	40.7	39.3	39.3	38.0	35.6	35.6	35.6	32.3	28.4
60°	60.9	53.9	46.2	42.7	41.9	41.6	38.7	35.6	35.6	35.1	30.8
57.5°	68.2	63.1	55.9	47.8	43.8	43.9	42.3	37.8	35.6	35.6	33.1
55°	76.0	68.2	64.0	56.8	47.8	44.5	44.8	41.1	36.2	35.6	35.4
52.5°	90.6	77.3	68.6	64.0	55.9	46.5	45.8	44.3	39.1	35.6	35.6
50°	108.5	93.2	77.9	68.2	63.1	54.0	47.2	46.1	41.9	36.3	35.6
47.5°	130.4	112.3	93.9	75.3	67.0	60.7	52.0	48.0	44.5	38.7	35.6
45°	160.3	134.0	112.0	90.9	71.3	65.6	57.3	50.3	46.8	41.0	35.6
42.5°	192.9	161.8	133.1	106.9	85.3	70.4	61.9	54.2	49.2	43.2	36.7
40°	232.0	193.0	156.5	127.6	101.2	75.8	66.6	57.8	51.9	45.3	38.5
37.5°	273.0	228.6	185.8	148.6	118.1	90.5	71.6	60.8	54.1	47.2	40.3
35°	324.0	268.0	217.2	174.1	137.5	105.2	77.0	64.2	56.2	49.1	41.9
32.5°	375.4	311.2	254.9	203.4	156.7	119.8	87.0	69.0	58.2	50.9	43.5
30°	445.1	362.3	292.6	233.0	178.0	136.6	99.7	73.8	60.1	52.5	44.9
27.5°	527.3	415.5	332.0	265.6	204.4	153.3	111.5	78.8	61.8	54.1	46.3
25°	614.6	485.3	380.2	298.2	230.6	169.3	122.5	84.0	65.0	55.5	47.5
22.5°	717.4	561.3	429.0	329.7	254.2	185.4	134.2	93.2	68.9	56.8	48.6
20°	831.6	637.5	479.9	365.1	278.8	205.3	147.0	101.5	72.7	57.9	49.6
17.5°	959.4	740.6	556.5	411.8	305.1	223.5	159.3	109.1	76.4	59.0	50.5
15°	1188.0	888.7	642.5	459.7	331.3	239.9	170.9	115.8	79.8	59.9	51.3
12.5°	1466.4	1051.2	732.8	508.0	356.8	254.5	181.8	121.8	83.0	61.4	52.0
10°	1769.7	1222.5	824.6	555.2	381.2	267.2	191.7	127.0	85.5	63.4	52.5
7.5°	2085.5	1396.2	914.9	600.3	404.4	276.1	197.9	132.1	87.2	65.5	53.0
5°	2419.6	1598.7	1040.1	666.1	429.8	281.2	202.0	136.5	88.3	67.6	53.3
2.5°	2819.3	1842.1	1184.7	732.7	452.9	284.2	204.3	140.0	88.9	69.6	53.4
0°	3190.2	2067.4	1318.9	793.1	472.3	285.2	205.0	142.6	89.1	71.3	53.5
-2.5°	3459.0	2209.3	1388.3	838.0	512.2	317.4	218.1	148.2	90.8	71.2	53.4
-5°	3667.1	2315.5	1437.4	872.7	546.3	346.1	229.3	152.5	92.0	70.7	53.3
-7.5°	3718.7	2331.9	1443.5	891.0	574.0	369.9	238.0	155.2	92.7	70.0	53.0
-10°	3666.6	2272.1	1392.9	859.1	560.5	374.6	242.9	156.0	92.8	69.0	52.5
-12.5°	3519.7	2162.5	1317.6	815.8	536.3	363.3	238.2	151.8	92.0	67.8	52.0
-15°	3269.2	1999.2	1216.3	760.8	508.5	349.2	230.4	144.5	89.4	66.3	51.3
-17.5°	2883.2	1779.0	1088.2	693.8	477.4	332.5	219.2	135.6	86.3	64.4	50.5
-20°	2476.8	1531.0	946.0	614.9	443.7	313.5	204.5	124.9	82.8	62.4	49.6



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2065.6	1292.1	825.5	563.1	412.1	292.3	186.1	112.6	78.8	60.1	48.6
-25°	1619.1	1038.8	699.5	505.8	384.5	270.6	167.8	98.6	74.4	57.5	47.5
-27.5°	1277.9	807.2	575.9	448.5	345.9	244.3	151.0	92.8	70.2	54.6	46.3
-30°	976.2	670.7	499.3	395.0	306.7	210.3	132.2	87.0	66.7	52.5	44.9
-32.5°	716.4	541.1	436.8	350.8	267.2	176.3	111.5	80.7	63.0	50.9	43.5
-35°	585.4	457.4	377.4	306.9	227.7	151.8	95.1	74.0	59.0	49.1	41.9
-37.5°	458.2	395.7	330.2	263.5	188.2	125.9	87.2	68.4	54.7	47.2	40.3
-40°	396.6	342.1	286.2	220.8	155.9	98.7	78.9	63.4	51.9	45.3	38.5
-42.5°	340.4	298.0	240.8	178.3	124.9	88.7	70.6	58.2	49.5	43.2	36.7
-45°	298.0	251.9	192.1	142.9	96.2	78.8	64.6	53.1	47.1	41.0	35.0
-47.5°	253.6	196.9	150.7	108.9	85.2	69.5	58.3	50.3	44.5	38.7	33.4
-50°	191.9	150.3	116.9	91.6	74.4	62.4	52.7	47.3	41.9	36.3	31.5
-52.5°	144.4	117.9	95.6	79.6	65.9	55.1	49.3	44.3	39.1	33.9	29.3
-55°	113.1	97.2	82.3	68.6	57.1	50.5	45.9	41.1	36.2	31.4	27.1
-57.5°	93.9	82.4	69.3	57.6	50.9	46.7	42.3	37.8	33.3	28.8	26.8
-60°	77.8	67.3	55.7	50.5	46.7	42.7	38.7	34.5	30.4	26.7	26.7
-62.5°	63.4	54.0	49.3	45.9	42.3	38.7	34.9	31.2	27.3	26.7	26.7
-65°	52.9	47.9	44.3	41.1	37.8	34.5	31.2	27.7	26.7	26.7	26.6
-67.5°	44.5	41.1	38.9	36.2	33.3	30.4	27.3	26.7	26.7	26.7	26.3
-70°	35.3	33.7	33.3	31.4	28.8	26.7	26.7	26.7	26.7	25.6	25.8
-72.5°	29.1	29.3	28.4	26.7	26.7	26.7	26.7	26.1	24.6	24.3	25.3
-75°	26.8	26.1	26.2	26.7	26.7	26.5	24.4	22.7	22.3	22.9	23.4
-77.5°	22.8	23.6	25.1	25.4	23.8	22.1	20.4	19.1	20.2	21.2	21.3
-80°	19.6	20.5	20.8	20.3	19.1	17.8	17.8	18.0	19.1	19.5	19.2
-82.5°	17.9	17.8	17.8	17.8	17.8	17.8	17.8	17.8	18.1	17.9	16.0
-85°	17.8	17.8	17.8	17.8	17.8	17.8	16.4	15.0	13.6	12.2	10.7
-87.5°	12.0	11.4	10.8	10.2	9.6	8.9	8.2	7.5	6.8	6.1	5.4
-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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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°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
85°	9.2	7.7	6.2	4.6	3.1	1.6	0.0
82.5°	13.8	11.5	9.2	7.0	4.6	2.3	0.0
80°	18.1	15.3	12.3	9.2	6.2	3.1	0.0
77.5°	20.3	18.5	15.3	11.5	7.7	3.9	0.0
75°	22.6	20.3	18.1	13.8	9.2	4.6	0.0
72.5°	24.8	22.2	19.6	16.0	10.7	5.4	0.0
70°	26.7	24.0	21.0	18.0	12.2	6.1	0.0
67.5°	26.7	25.8	22.5	19.1	13.6	6.8	0.0
65°	26.7	26.7	23.9	20.2	15.0	7.5	0.0
62.5°	26.7	26.7	25.3	21.2	16.4	8.2	0.0
60°	26.7	26.7	26.6	22.2	17.8	8.9	0.0
57.5°	28.5	26.7	26.7	23.2	18.5	9.6	0.0
55°	30.4	26.7	26.7	24.2	19.1	10.2	0.0
52.5°	32.3	27.0	26.7	25.1	19.7	10.8	0.0
50°	34.1	28.5	26.7	26.0	20.3	11.4	0.0
47.5°	35.6	29.9	26.7	26.7	20.9	12.0	0.0
45°	35.6	31.3	26.7	26.7	21.5	12.6	0.0
42.5°	35.6	32.7	26.7	26.7	22.0	13.1	0.0
40°	35.6	34.0	27.2	26.7	22.5	13.6	0.0
37.5°	35.6	35.2	28.2	26.7	23.0	14.1	0.0
35°	35.6	35.6	29.1	26.7	23.5	14.6	0.0
32.5°	36.0	35.6	30.0	26.7	23.9	15.0	0.0
30°	37.2	35.6	30.8	26.7	24.3	15.4	0.0
27.5°	38.4	35.6	31.5	26.7	24.7	15.8	0.0
25°	39.4	35.6	32.2	26.7	25.0	16.1	0.0
22.5°	40.4	35.6	32.9	26.7	25.3	16.4	0.0
20°	41.3	35.6	33.4	26.7	25.6	16.7	0.0
17.5°	42.0	35.6	33.9	26.7	25.9	17.0	0.0
15°	42.7	35.6	34.4	26.7	26.1	17.2	0.0
12.5°	43.3	35.6	34.7	26.7	26.3	17.4	0.0
10°	43.8	35.6	35.1	26.7	26.4	17.5	0.0
7.5°	44.1	35.6	35.3	26.7	26.5	17.6	0.0
5°	44.4	35.6	35.5	26.7	26.6	17.7	0.0
2.5°	44.5	35.6	35.6	26.7	26.7	17.8	0.0
0°	44.6	35.6	35.6	26.7	26.7	17.8	0.0
-2.5°	44.5	35.6	35.6	26.7	26.7	17.8	0.0
-5°	44.4	35.6	35.5	26.7	26.6	17.7	0.0
-7.5°	44.1	35.6	35.3	26.7	26.5	17.6	0.0
-10°	43.8	35.6	35.1	26.7	26.4	17.5	0.0
-12.5°	43.3	35.6	34.7	26.7	26.3	17.4	0.0
-15°	42.7	35.6	34.4	26.7	26.1	17.2	0.0
-17.5°	42.0	35.6	33.9	26.7	25.9	17.0	0.0
-20°	41.3	35.6	33.4	26.7	25.6	16.7	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	40.4	35.6	32.9	26.7	25.3	16.4	0.0
-25°	39.4	35.5	32.2	26.7	25.0	16.1	0.0
-27.5°	38.4	35.2	31.5	26.7	24.7	15.8	0.0
-30°	37.2	34.8	30.8	26.7	24.3	15.4	0.0
-32.5°	36.0	34.3	29.8	26.7	23.9	15.0	0.0
-35°	35.3	33.8	28.9	26.7	23.5	14.6	0.0
-37.5°	34.6	32.9	28.0	26.7	23.0	14.1	0.0
-40°	33.8	31.7	27.1	26.7	22.5	13.6	0.0
-42.5°	32.8	30.6	26.7	26.7	22.0	13.1	0.0
-45°	31.6	29.5	26.7	26.7	21.5	12.6	0.0
-47.5°	30.3	28.5	26.7	26.7	20.9	12.0	0.0
-50°	29.2	27.6	26.7	26.0	20.3	11.4	0.0
-52.5°	28.4	26.8	26.7	25.1	19.7	10.8	0.0
-55°	27.7	26.7	26.7	24.2	19.1	10.2	0.0
-57.5°	27.1	26.7	26.7	23.2	18.5	9.6	0.0
-60°	26.7	26.7	26.6	22.2	17.8	8.9	0.0
-62.5°	26.7	26.7	25.3	21.2	16.4	8.2	0.0
-65°	26.7	26.7	23.9	20.2	15.0	7.5	0.0
-67.5°	26.7	25.8	22.5	19.1	13.6	6.8	0.0
-70°	26.7	24.0	21.0	18.0	12.2	6.1	0.0
-72.5°	24.8	22.2	19.6	16.0	10.7	5.4	0.0
-75°	22.6	20.3	18.1	13.8	9.2	4.6	0.0
-77.5°	20.3	18.5	15.3	11.5	7.7	3.9	0.0
-80°	18.1	15.3	12.3	9.2	6.2	3.1	0.0
-82.5°	13.8	11.5	9.2	7.0	4.6	2.3	0.0
-85°	9.2	7.7	6.2	4.6	3.1	1.6	0.0
-87.5°	4.6	3.9	3.1	2.3	1.6	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)