

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: P699859 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-40-70-2S-S**

Issue Date: 8/10/2023

Test Information

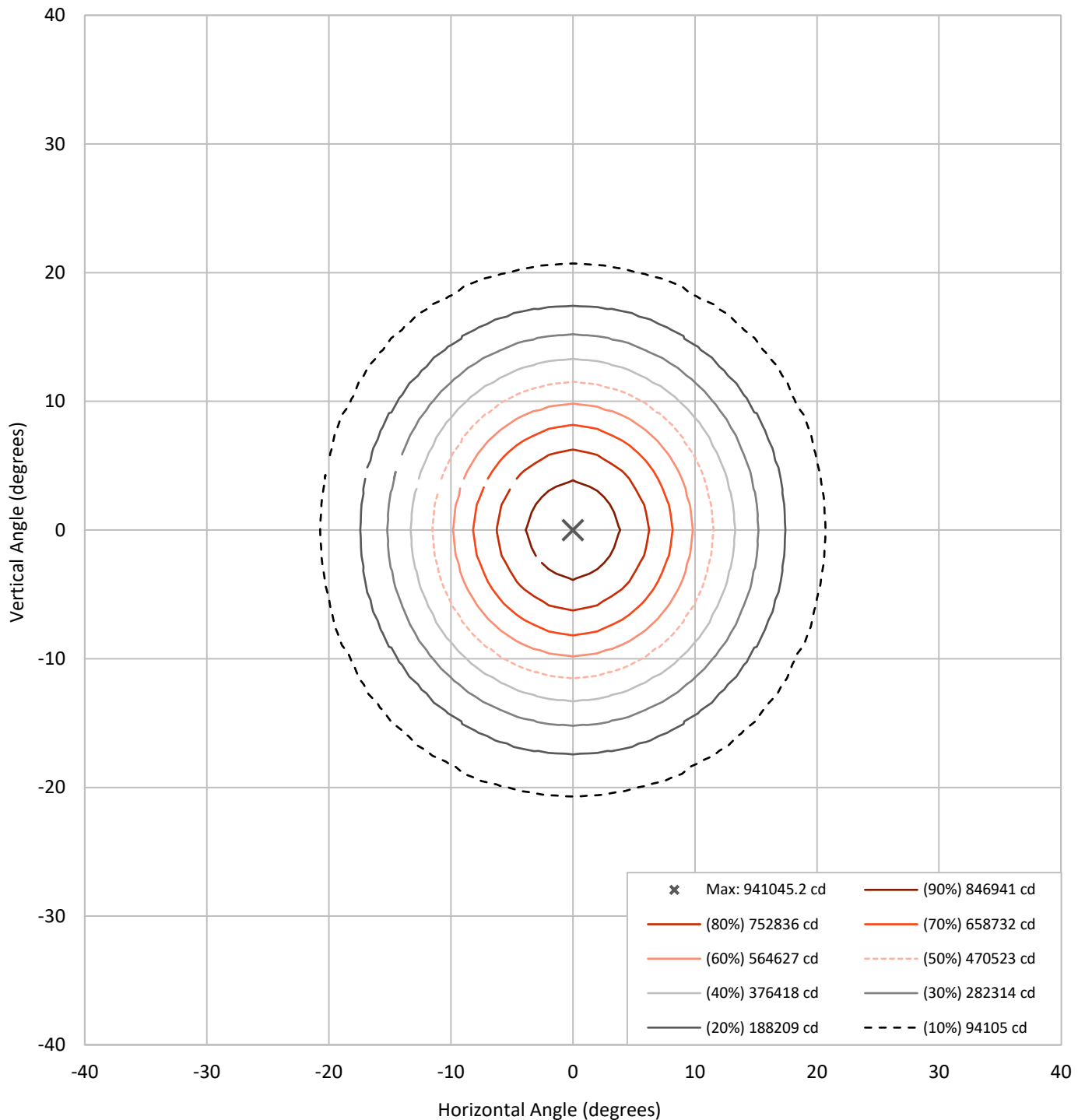
Test Method: LM-79-08
Report Number: P699859 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-10)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-40-70-2S-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 70 CRI LEDS AND 2S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	188957.3 lumens	Max Intensity:	941045.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	154.6 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	23.1°H x 23.1°V	Field Angle (10%):	41.4°H x 41.4°V
Beam Lumens:	85126.4 lumens	Field Lumens:	150179.5 lumens
Beam Efficiency:	45.1%	Field Efficiency:	79.5%
Input Watts (W):	1222.5		
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





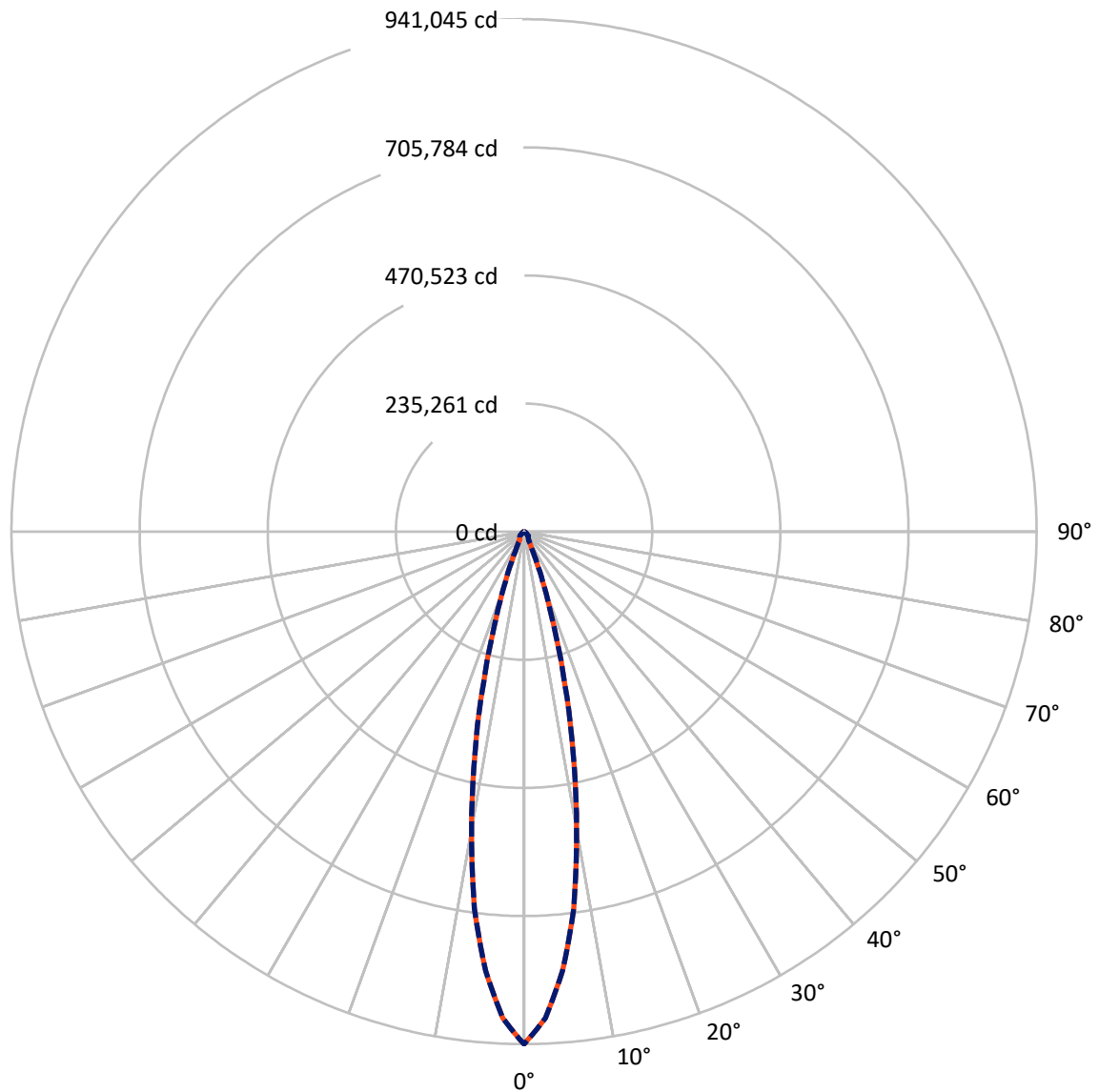
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Lumen Table

90	0.3		2.3		8.2		19.8		25.7		19.8		8.2		2.3		0.3
80	0.3		2.3		8.2		19.8		25.7		19.8		8.2		2.3		0.3
70	1.0	1.2	4.9	13.6	26.0	39.4	50.6	56.8	56.8	50.6	39.4	26.0	13.6	4.9	1.2	1.0	
60		3.7	15.4	36.2	63.0	89.9	110.0	120.8	120.8	110.0	89.9	63.0	36.2	15.4	3.7		
50	2.7	8.4	29.6	64.0	103.3	165.9	244.2	289.0	289.0	244.2	165.9	103.3	64.0	29.6	8.4	2.7	
40		13.8	44.5	89.4	190.1	316.8	385.5	423.1	423.1	385.5	316.8	190.1	89.4	44.5	13.8		
30	5.7	18.9	57.5	130.6	286.8	391.6	614.9	1159.0	1159.0	614.9	391.6	286.8	130.6	57.5	18.9	5.7	
20		22.8	65.9	181.0	327.6	579.1	2894.5	7832.1	7832.1	2894.5	579.1	327.6	181.0	65.9	22.8		
10	7.1	24.9	70.2	207.2	348.7	1066.5	7630.8	20273.0	20273.0	7630.8	1066.5	348.7	207.2	70.2	24.9	7.1	
0		24.9	70.2	207.2	348.7	1066.5	7630.8	20273.0	20273.0	7630.8	1066.5	348.7	207.2	70.2	24.9		
-10	5.7	22.8	65.9	181.0	327.6	579.1	2894.5	7832.1	7832.1	2894.5	579.1	327.6	181.0	65.9	22.8	5.7	
-20		18.9	57.5	130.6	286.8	391.6	614.9	1159.0	1159.0	614.9	391.6	286.8	130.6	57.5	18.9		
-30	2.7	13.8	44.5	89.4	190.1	316.8	385.5	423.1	423.1	385.5	316.8	190.1	89.4	44.5	13.8	2.7	
-40		8.4	29.6	64.0	103.3	165.9	244.2	289.0	289.0	244.2	165.9	103.3	64.0	29.6	8.4		
-50	1.0	3.7	15.4	36.2	63.0	89.9	110.0	120.8	120.8	110.0	89.9	63.0	36.2	15.4	3.7	1.0	
-60		1.2	4.9	13.6	26.0	39.4	50.6	56.8	56.8	50.6	39.4	26.0	13.6	4.9	1.2		
-70	0.3		2.3		8.2		19.8		25.7		19.8		8.2		2.3		0.3
-80	0.3		2.3		8.2		19.8		25.7		19.8		8.2		2.3		0.3
-90	0.3		2.3		8.2		19.8		25.7		19.8		8.2		2.3		0.3

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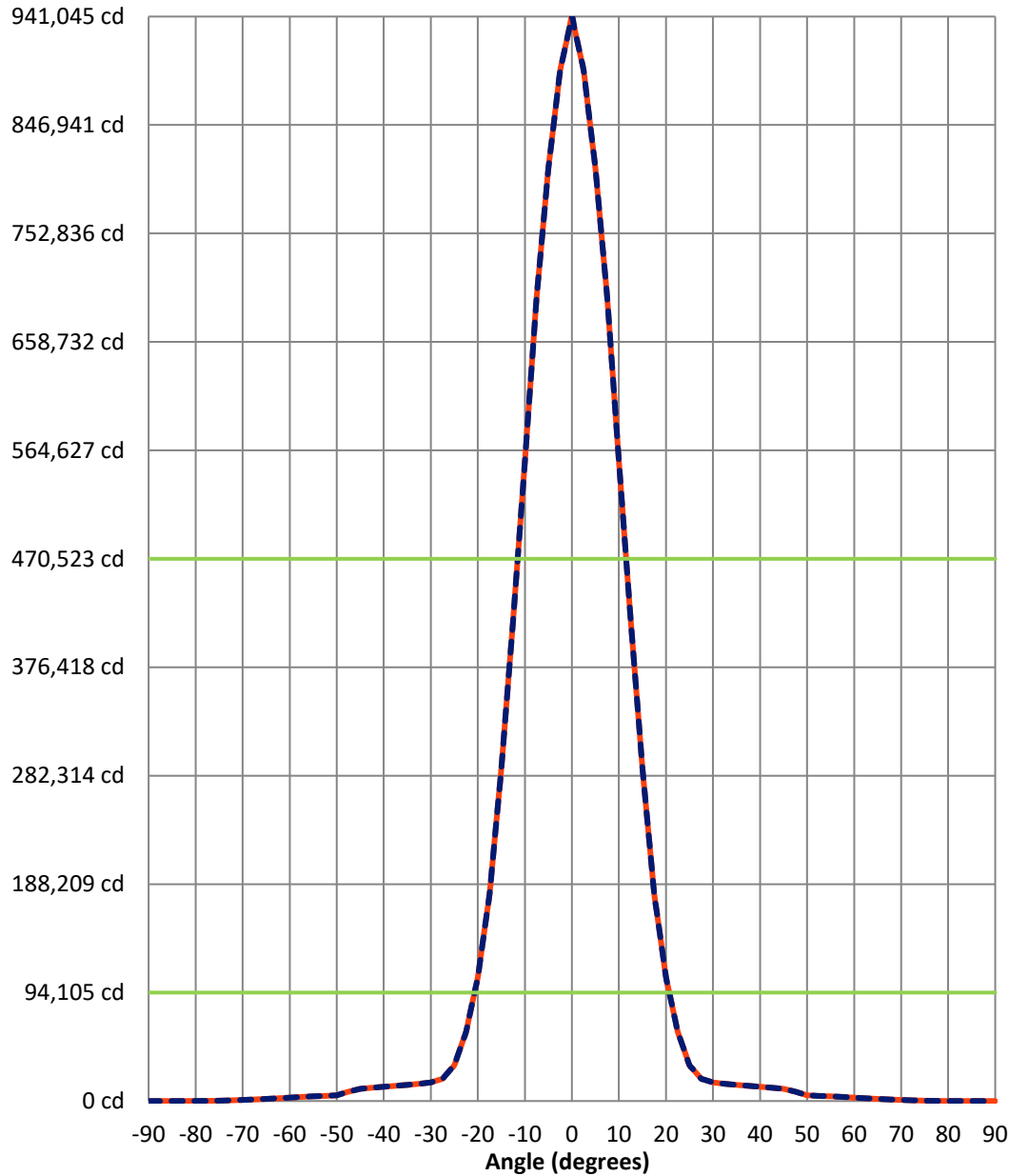
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 23.1°
V Angle: 23.1°
Lumens: 85126.4
Efficiency: 45.1%

Field:
H Angle: 41.4°
V Angle: 41.4°
Lumens: 150179.5
Efficiency: 79.5%

Spill:
Lumens: 38777.8
Efficiency: 20.5%

— 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	1.7	2.5	3.3	4.2	5.0	5.8	6.6	7.3	8.1
85°	0.0	1.7	3.3	5.0	6.7	8.3	9.9	11.5	13.1	14.7	16.2
82.5°	0.0	2.5	5.0	7.5	10.0	12.4	14.9	17.3	19.5	21.2	22.9
80°	0.0	3.3	6.7	10.0	13.3	16.5	19.6	22.0	24.3	26.6	28.8
77.5°	0.0	4.2	8.3	12.4	16.5	20.2	23.2	26.1	29.0	31.9	35.1
75°	0.0	5.0	9.9	14.9	19.6	23.2	26.8	30.3	33.9	38.3	42.6
72.5°	0.0	5.8	11.5	17.3	22.0	26.1	30.3	34.7	39.9	45.0	50.1
70°	0.0	6.6	13.1	19.5	24.3	29.0	33.9	39.9	45.8	51.7	59.0
67.5°	0.0	7.3	14.7	21.2	26.6	31.9	38.3	45.0	51.7	60.0	68.3
65°	0.0	8.1	16.2	22.9	28.8	35.1	42.6	50.1	59.0	68.3	82.0
62.5°	0.0	8.9	17.7	24.6	31.0	38.7	46.9	56.0	66.2	79.2	106.5
60°	0.0	9.6	19.2	26.2	33.2	42.1	51.0	62.1	73.3	100.9	130.6
57.5°	0.0	10.3	20.2	27.8	35.9	45.5	56.1	68.2	89.7	122.1	182.3
55°	0.0	11.0	21.3	29.3	38.5	48.8	61.1	74.1	108.1	150.9	246.2
52.5°	0.0	11.7	22.3	30.8	41.1	52.2	66.0	88.6	125.9	206.8	308.3
50°	0.0	12.3	23.2	32.2	43.6	56.1	70.8	103.8	152.3	261.1	404.1
47.5°	0.0	13.0	24.1	33.7	45.9	59.9	76.5	118.4	198.9	313.6	500.9
45°	0.0	13.6	25.0	35.5	48.2	63.6	88.6	132.5	243.8	396.7	594.3
42.5°	0.0	14.2	25.9	37.1	50.4	67.1	100.1	160.0	286.9	477.3	702.5
40°	0.0	14.7	26.7	38.7	52.8	70.5	111.2	196.0	336.9	554.4	809.3
37.5°	0.0	15.2	27.5	40.2	55.4	73.7	121.7	230.2	401.9	632.7	911.0
35°	0.0	15.7	28.2	41.6	57.8	80.1	131.6	262.5	463.5	719.1	1013.2
32.5°	0.0	16.2	28.9	42.9	60.1	87.9	145.9	293.0	521.4	800.5	1118.2
30°	0.0	16.6	29.5	44.2	62.2	95.1	170.2	325.9	575.7	876.8	1216.7
27.5°	0.0	17.0	30.1	45.3	64.1	101.8	192.7	369.8	630.7	947.8	1308.3
25°	0.0	17.4	30.7	46.4	65.9	108.0	213.5	410.2	688.4	1019.8	1393.4
22.5°	0.0	17.7	31.1	47.3	67.6	113.7	232.5	447.0	741.1	1088.7	1482.1
20°	0.0	18.0	31.6	48.2	69.1	118.8	249.5	480.3	788.6	1150.8	1562.1
17.5°	0.0	18.3	32.0	49.0	70.4	123.3	264.7	509.8	830.8	1206.1	1633.3
15°	0.0	18.5	32.3	49.6	71.5	127.2	277.9	535.5	867.6	1254.3	1695.4
12.5°	0.0	18.7	32.6	50.2	72.5	130.6	289.1	557.3	898.9	1295.3	1748.3
10°	0.0	18.9	32.9	50.7	73.3	133.3	298.3	575.3	924.6	1329.1	1791.8
7.5°	0.0	19.0	33.1	51.0	73.9	135.4	305.5	589.3	944.7	1355.4	1825.8
5°	0.0	19.1	33.2	51.3	74.3	137.0	310.7	599.4	959.1	1374.3	1850.2
2.5°	0.0	19.2	33.3	51.4	74.6	137.9	313.8	605.4	967.7	1385.6	1864.8
0°	0.0	19.2	33.3	51.5	74.7	138.2	314.8	607.4	970.6	1389.4	1869.7
-2.5°	0.0	19.2	33.3	51.4	74.6	137.9	313.8	605.4	967.7	1385.6	1864.8
-5°	0.0	19.1	33.2	51.3	74.3	137.0	310.7	599.4	959.1	1374.3	1850.2
-7.5°	0.0	19.0	33.1	51.0	73.9	135.4	305.5	589.3	944.7	1355.4	1825.8
-10°	0.0	18.9	32.9	50.7	73.3	133.3	298.3	575.3	924.6	1329.1	1791.8
-12.5°	0.0	18.7	32.6	50.2	72.5	130.6	289.1	557.3	898.9	1295.3	1748.3
-15°	0.0	18.5	32.3	49.6	71.5	127.2	277.9	535.5	867.6	1254.3	1695.4
-17.5°	0.0	18.3	32.0	49.0	70.4	123.3	264.7	509.8	830.8	1206.1	1633.3
-20°	0.0	18.0	31.6	48.2	69.1	118.8	249.5	480.3	788.6	1150.8	1562.1



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 CATALOG NUMBER: EPH-LS-16-1200L-40-70-2S-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	17.7	31.1	47.3	67.6	113.7	232.5	447.0	741.1	1088.7	1482.1
-25°	0.0	17.4	30.7	46.4	65.9	108.0	213.5	410.2	688.4	1019.8	1393.4
-27.5°	0.0	17.0	30.1	45.3	64.1	101.8	192.7	369.8	630.7	947.8	1308.3
-30°	0.0	16.6	29.5	44.2	62.2	95.1	170.2	325.9	575.7	876.8	1216.7
-32.5°	0.0	16.2	28.9	42.9	60.1	87.9	145.9	293.0	521.4	800.5	1118.2
-35°	0.0	15.7	28.2	41.6	57.8	80.1	131.6	262.5	463.5	719.1	1013.2
-37.5°	0.0	15.2	27.5	40.2	55.4	73.7	121.7	230.2	401.9	632.7	911.0
-40°	0.0	14.7	26.7	38.7	52.8	70.5	111.2	196.0	336.9	554.4	809.3
-42.5°	0.0	14.2	25.9	37.1	50.4	67.1	100.1	160.0	286.9	477.3	702.5
-45°	0.0	13.6	25.0	35.5	48.2	63.6	88.6	132.5	243.8	396.7	594.3
-47.5°	0.0	13.0	24.1	33.7	45.9	59.9	76.5	118.4	198.9	313.6	500.9
-50°	0.0	12.3	23.2	32.2	43.6	56.1	70.8	103.8	152.3	261.1	404.1
-52.5°	0.0	11.7	22.3	30.8	41.1	52.2	66.0	88.6	125.9	206.8	308.3
-55°	0.0	11.0	21.3	29.3	38.5	48.8	61.1	74.1	108.1	150.9	246.2
-57.5°	0.0	10.3	20.2	27.8	35.9	45.5	56.1	68.2	89.7	122.1	182.3
-60°	0.0	9.6	19.2	26.2	33.2	42.1	51.0	62.1	73.3	100.9	130.6
-62.5°	0.0	8.9	17.7	24.6	31.0	38.7	46.9	56.0	66.2	79.2	106.5
-65°	0.0	8.1	16.2	22.9	28.8	35.1	42.6	50.1	59.0	68.3	82.0
-67.5°	0.0	7.3	14.7	21.2	26.6	31.9	38.3	45.0	51.7	60.0	68.3
-70°	0.0	6.6	13.1	19.5	24.3	29.0	33.9	39.9	45.8	51.7	59.0
-72.5°	0.0	5.8	11.5	17.3	22.0	26.1	30.3	34.7	39.9	45.0	50.1
-75°	0.0	5.0	9.9	14.9	19.6	23.2	26.8	30.3	33.9	38.3	42.6
-77.5°	0.0	4.2	8.3	12.4	16.5	20.2	23.2	26.1	29.0	31.9	35.1
-80°	0.0	3.3	6.7	10.0	13.3	16.5	19.6	22.0	24.3	26.6	28.8
-82.5°	0.0	2.5	5.0	7.5	10.0	12.4	14.9	17.3	19.5	21.2	22.9
-85°	0.0	1.7	3.3	5.0	6.7	8.3	9.9	11.5	13.1	14.7	16.2
-87.5°	0.0	0.8	1.7	2.5	3.3	4.2	5.0	5.8	6.6	7.3	8.1
-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-16-1200L-40-70-2S-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°	8.9	9.6	10.3	11.0	11.7	12.3	13.0	13.6	14.2	14.7	15.2
85°	17.7	19.2	20.2	21.3	22.3	23.2	24.1	25.0	25.9	26.7	27.5
82.5°	24.6	26.2	27.8	29.3	30.8	32.2	33.7	35.5	37.1	38.7	40.2
80°	31.0	33.2	35.9	38.5	41.1	43.6	45.9	48.2	50.4	52.8	55.4
77.5°	38.7	42.1	45.5	48.8	52.2	56.1	59.9	63.6	67.1	70.5	73.7
75°	46.9	51.0	56.1	61.1	66.0	70.8	76.5	88.6	100.1	111.2	121.7
72.5°	56.0	62.1	68.2	74.1	88.6	103.8	118.4	132.5	160.0	196.0	230.2
70°	66.2	73.3	89.7	108.1	125.9	152.3	198.9	243.8	286.9	336.9	401.9
67.5°	79.2	100.9	122.1	150.9	206.8	261.1	313.6	396.7	477.3	554.4	632.7
65°	106.5	130.6	182.3	246.2	308.3	404.1	500.9	594.3	702.5	809.3	911.0
62.5°	133.4	198.1	269.9	356.7	469.9	580.0	705.7	833.6	956.6	1090.4	1220.1
60°	198.1	277.9	383.1	509.8	639.5	788.6	933.2	1088.7	1243.9	1393.4	1556.7
57.5°	269.9	383.1	523.1	672.7	838.7	1004.8	1185.7	1360.8	1550.2	1736.2	1917.3
55°	356.7	509.8	672.7	855.5	1043.7	1244.4	1446.9	1663.6	1873.2	2089.3	2296.2
52.5°	469.9	639.5	838.7	1043.7	1264.1	1492.3	1732.3	1972.1	2213.8	2453.2	2700.9
50°	580.0	788.6	1004.8	1244.4	1492.3	1755.3	2022.0	2289.2	2565.8	2842.7	3121.5
47.5°	705.7	933.2	1185.7	1446.9	1732.3	2022.0	2314.5	2622.4	2928.6	3247.0	3555.7
45°	833.6	1088.7	1360.8	1663.6	1972.1	2289.2	2622.4	2957.4	3310.3	3642.0	3927.3
42.5°	956.6	1243.9	1550.2	1873.2	2213.8	2565.8	2928.6	3310.3	3669.9	3983.9	4216.8
40°	1090.4	1393.4	1736.2	2089.3	2453.2	2842.7	3247.0	3642.0	3983.9	4233.8	4423.2
37.5°	1220.1	1556.7	1917.3	2296.2	2700.9	3121.5	3555.7	3927.3	4216.8	4423.2	4777.3
35°	1343.3	1711.8	2099.1	2505.3	2937.2	3397.2	3814.8	4165.9	4388.5	4745.2	5674.3
32.5°	1470.0	1858.5	2271.1	2712.7	3178.8	3648.5	4058.8	4319.7	4649.6	5314.5	7518.4
30°	1595.2	2005.6	2438.1	2908.0	3408.3	3863.1	4218.2	4492.3	4931.4	6968.0	9027.2
27.5°	1711.8	2143.5	2605.7	3101.8	3617.1	4064.4	4345.9	4740.2	6063.6	8446.4	10324.3
25°	1819.6	2271.1	2760.8	3285.3	3789.9	4195.7	4491.0	4971.6	7430.4	9585.2	10960.7
22.5°	1921.7	2388.1	2903.0	3453.7	3948.7	4297.1	4689.0	5997.8	8573.7	10611.6	11399.9
20°	2017.3	2505.3	3037.9	3602.6	4092.7	4389.2	4869.3	7069.2	9471.9	10986.4	11780.6
17.5°	2102.3	2609.7	3162.4	3720.6	4178.0	4503.3	5149.1	8031.3	10280.3	11324.5	12114.2
15°	2176.6	2700.9	3271.3	3824.0	4244.5	4634.1	5930.1	8715.9	10747.7	11616.0	12409.5
12.5°	2239.9	2778.7	3364.2	3912.3	4301.3	4745.9	6599.2	9280.6	10984.9	11851.4	12648.5
10°	2292.0	2842.7	3440.7	3985.1	4348.2	4838.3	7152.5	9748.2	11181.8	12046.9	12847.6
7.5°	2332.7	2892.7	3500.5	4042.0	4385.0	4910.8	7586.6	10115.5	11336.5	12200.9	13004.7
5°	2361.9	2928.6	3543.5	4082.9	4411.3	4962.8	7898.7	10379.8	11448.0	12312.0	13118.1
2.5°	2379.4	2950.2	3569.3	4107.5	4427.2	4994.1	8086.8	10539.1	11515.3	12379.1	13186.7
0°	2385.3	2957.4	3577.9	4115.7	4432.5	5004.6	8149.6	10592.4	11537.8	12401.5	13209.7
-2.5°	2379.4	2950.2	3569.3	4107.5	4427.2	4994.1	8086.8	10539.1	11515.3	12379.1	13186.7
-5°	2361.9	2928.6	3543.5	4082.9	4411.3	4962.8	7898.7	10379.8	11448.0	12312.0	13118.1
-7.5°	2332.7	2892.7	3500.5	4042.0	4385.0	4910.8	7586.6	10115.5	11336.5	12200.9	13004.7
-10°	2292.0	2842.7	3440.7	3985.1	4348.2	4838.3	7152.5	9748.2	11181.8	12046.9	12847.6
-12.5°	2239.9	2778.7	3364.2	3912.3	4301.3	4745.9	6599.2	9280.6	10984.9	11851.4	12648.5
-15°	2176.6	2700.9	3271.3	3824.0	4244.5	4634.1	5930.1	8715.9	10747.7	11616.0	12409.5
-17.5°	2102.3	2609.7	3162.4	3720.6	4178.0	4503.3	5149.1	8031.3	10280.3	11324.5	12114.2
-20°	2017.3	2505.3	3037.9	3602.6	4092.7	4389.2	4869.3	7069.2	9471.9	10986.4	11780.6



REPORT NUMBER: P699859 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-2S-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1921.7	2388.1	2903.0	3453.7	3948.7	4297.1	4689.0	5997.8	8573.7	10611.6	11399.9
-25°	1819.6	2271.1	2760.8	3285.3	3789.9	4195.7	4491.0	4971.6	7430.4	9585.2	10960.7
-27.5°	1711.8	2143.5	2605.7	3101.8	3617.1	4064.4	4345.9	4740.2	6063.6	8446.4	10324.3
-30°	1595.2	2005.6	2438.1	2908.0	3408.3	3863.1	4218.2	4492.3	4931.4	6968.0	9027.2
-32.5°	1470.0	1858.5	2271.1	2712.7	3178.8	3648.5	4058.8	4319.7	4649.6	5314.5	7518.4
-35°	1343.3	1711.8	2099.1	2505.3	2937.2	3397.2	3814.8	4165.9	4388.5	4745.2	5674.3
-37.5°	1220.1	1556.7	1917.3	2296.2	2700.9	3121.5	3555.7	3927.3	4216.8	4423.2	4777.3
-40°	1090.4	1393.4	1736.2	2089.3	2453.2	2842.7	3247.0	3642.0	3983.9	4233.8	4423.2
-42.5°	956.6	1243.9	1550.2	1873.2	2213.8	2565.8	2928.6	3310.3	3669.9	3983.9	4216.8
-45°	833.6	1088.7	1360.8	1663.6	1972.1	2289.2	2622.4	2957.4	3310.3	3642.0	3927.3
-47.5°	705.7	933.2	1185.7	1446.9	1732.3	2022.0	2314.5	2622.4	2928.6	3247.0	3555.7
-50°	580.0	788.6	1004.8	1244.4	1492.3	1755.3	2022.0	2289.2	2565.8	2842.7	3121.5
-52.5°	469.9	639.5	838.7	1043.7	1264.1	1492.3	1732.3	1972.1	2213.8	2453.2	2700.9
-55°	356.7	509.8	672.7	855.5	1043.7	1244.4	1446.9	1663.6	1873.2	2089.3	2296.2
-57.5°	269.9	383.1	523.1	672.7	838.7	1004.8	1185.7	1360.8	1550.2	1736.2	1917.3
-60°	198.1	277.9	383.1	509.8	639.5	788.6	933.2	1088.7	1243.9	1393.4	1556.7
-62.5°	133.4	198.1	269.9	356.7	469.9	580.0	705.7	833.6	956.6	1090.4	1220.1
-65°	106.5	130.6	182.3	246.2	308.3	404.1	500.9	594.3	702.5	809.3	911.0
-67.5°	79.2	100.9	122.1	150.9	206.8	261.1	313.6	396.7	477.3	554.4	632.7
-70°	66.2	73.3	89.7	108.1	125.9	152.3	198.9	243.8	286.9	336.9	401.9
-72.5°	56.0	62.1	68.2	74.1	88.6	103.8	118.4	132.5	160.0	196.0	230.2
-75°	46.9	51.0	56.1	61.1	66.0	70.8	76.5	88.6	100.1	111.2	121.7
-77.5°	38.7	42.1	45.5	48.8	52.2	56.1	59.9	63.6	67.1	70.5	73.7
-80°	31.0	33.2	35.9	38.5	41.1	43.6	45.9	48.2	50.4	52.8	55.4
-82.5°	24.6	26.2	27.8	29.3	30.8	32.2	33.7	35.5	37.1	38.7	40.2
-85°	17.7	19.2	20.2	21.3	22.3	23.2	24.1	25.0	25.9	26.7	27.5
-87.5°	8.9	9.6	10.3	11.0	11.7	12.3	13.0	13.6	14.2	14.7	15.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699859 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-2S-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°	15.7	16.2	16.6	17.0	17.4	17.7	18.0	18.3	18.5	18.7	18.9
85°	28.2	28.9	29.5	30.1	30.7	31.1	31.6	32.0	32.3	32.6	32.9
82.5°	41.6	42.9	44.2	45.3	46.4	47.3	48.2	49.0	49.6	50.2	50.7
80°	57.8	60.1	62.2	64.1	65.9	67.6	69.1	70.4	71.5	72.5	73.3
77.5°	80.1	87.9	95.1	101.8	108.0	113.7	118.8	123.3	127.2	130.6	133.3
75°	131.6	145.9	170.2	192.7	213.5	232.5	249.5	264.7	277.9	289.1	298.3
72.5°	262.5	293.0	325.9	369.8	410.2	447.0	480.3	509.8	535.5	557.3	575.3
70°	463.5	521.4	575.7	630.7	688.4	741.1	788.6	830.8	867.6	898.9	924.6
67.5°	719.1	800.5	876.8	947.8	1019.8	1088.7	1150.8	1206.1	1254.3	1295.3	1329.1
65°	1013.2	1118.2	1216.7	1308.3	1393.4	1482.1	1562.1	1633.3	1695.4	1748.3	1791.8
62.5°	1343.3	1470.0	1595.2	1711.8	1819.6	1921.7	2017.3	2102.3	2176.6	2239.9	2292.0
60°	1711.8	1858.5	2005.6	2143.5	2271.1	2388.1	2505.3	2609.7	2700.9	2778.7	2842.7
57.5°	2099.1	2271.1	2438.1	2605.7	2760.8	2903.0	3037.9	3162.4	3271.3	3364.2	3440.7
55°	2505.3	2712.7	2908.0	3101.8	3285.3	3453.7	3602.6	3720.6	3824.0	3912.3	3985.1
52.5°	2937.2	3178.8	3408.3	3617.1	3789.9	3948.7	4092.7	4178.0	4244.5	4301.3	4348.2
50°	3397.2	3648.5	3863.1	4064.4	4195.7	4297.1	4389.2	4503.3	4634.1	4745.9	4838.3
47.5°	3814.8	4058.8	4218.2	4345.9	4491.0	4689.0	4869.3	5149.1	5930.1	6599.2	7152.5
45°	4165.9	4319.7	4492.3	4740.2	4971.6	5997.8	7069.2	8031.3	8715.9	9280.6	9748.2
42.5°	4388.5	4649.6	4931.4	6063.6	7430.4	8573.7	9471.9	10280.3	10747.7	10984.9	11181.8
40°	4745.2	5314.5	6968.0	8446.4	9585.2	10611.6	10986.4	11324.5	11616.0	11851.4	12046.9
37.5°	5674.3	7518.4	9027.2	10324.3	10960.7	11399.9	11780.6	12114.2	12409.5	12648.5	12847.6
35°	7703.1	9320.9	10663.0	11198.2	11688.6	12119.1	12508.7	12845.7	13145.5	13404.5	13620.5
32.5°	9320.9	10721.6	11318.4	11857.7	12350.1	12785.1	13184.6	13547.3	13871.0	14175.7	14451.5
30°	10663.0	11318.4	11914.5	12463.0	12954.3	13415.8	13843.8	14272.8	14683.6	15064.7	15446.3
27.5°	11198.2	11857.7	12463.0	13011.3	13533.3	14027.7	14565.9	15088.3	15652.7	16147.7	17267.8
25°	11688.6	12350.1	12954.3	13533.3	14099.6	14715.3	15382.7	16059.2	17554.1	19008.3	22612.2
22.5°	12119.1	12785.1	13415.8	14027.7	14715.3	15482.2	16465.0	18428.6	22528.9	28364.6	36703.2
20°	12508.7	13184.6	13843.8	14565.9	15382.7	16465.0	18725.3	24813.8	33245.1	49094.3	64494.1
17.5°	12845.7	13547.3	14272.8	15088.3	16059.2	18428.6	24813.8	36274.5	55518.4	81156.9	106110.7
15°	13145.5	13871.0	14683.6	15652.7	17554.1	22528.9	33245.1	55518.4	86872.2	123963.4	166426.2
12.5°	13404.5	14175.7	15064.7	16147.7	19008.3	28364.6	49094.3	81156.9	123963.4	176739.5	246975.3
10°	13620.5	14451.5	15446.3	17267.8	22612.2	36703.2	64494.1	106110.7	166426.2	246975.3	331431.0
7.5°	13791.4	14670.2	15749.9	18165.9	26248.2	46693.9	82781.2	136683.7	213273.5	310364.6	418626.6
5°	13915.0	14828.9	15970.8	18821.3	28913.3	54059.3	96367.5	160216.1	254146.4	365849.6	491035.9
2.5°	13989.8	14925.1	16104.9	19220.5	30541.4	58578.0	104751.1	174856.3	279881.0	403869.9	538128.6
0°	14014.9	14957.3	16149.9	19354.5	31089.1	60101.6	107586.8	179830.6	288684.6	417356.8	554665.9
-2.5°	13989.8	14925.1	16104.9	19220.5	30541.4	58578.0	104751.1	174856.3	279881.0	403869.9	538128.6
-5°	13915.0	14828.9	15970.8	18821.3	28913.3	54059.3	96367.5	160216.1	254146.4	365849.6	491035.9
-7.5°	13791.4	14670.2	15749.9	18165.9	26248.2	46693.9	82781.2	136683.7	213273.5	310364.6	418626.6
-10°	13620.5	14451.5	15446.3	17267.8	22612.2	36703.2	64494.1	106110.7	166426.2	246975.3	331431.0
-12.5°	13404.5	14175.7	15064.7	16147.7	19008.3	28364.6	49094.3	81156.9	123963.4	176739.5	246975.3
-15°	13145.5	13871.0	14683.6	15652.7	17554.1	22528.9	33245.1	55518.4	86872.2	123963.4	166426.2
-17.5°	12845.7	13547.3	14272.8	15088.3	16059.2	18428.6	24813.8	36274.5	55518.4	81156.9	106110.7
-20°	12508.7	13184.6	13843.8	14565.9	15382.7	16465.0	18725.3	24813.8	33245.1	49094.3	64494.1



REPORT NUMBER: P699859 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-2S-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	12119.1	12785.1	13415.8	14027.7	14715.3	15482.2	16465.0	18428.6	22528.9	28364.6	36703.2
-25°	11688.6	12350.1	12954.3	13533.3	14099.6	14715.3	15382.7	16059.2	17554.1	19008.3	22612.2
-27.5°	11198.2	11857.7	12463.0	13011.3	13533.3	14027.7	14565.9	15088.3	15652.7	16147.7	17267.8
-30°	10663.0	11318.4	11914.5	12463.0	12954.3	13415.8	13843.8	14272.8	14683.6	15064.7	15446.3
-32.5°	9320.9	10721.6	11318.4	11857.7	12350.1	12785.1	13184.6	13547.3	13871.0	14175.7	14451.5
-35°	7703.1	9320.9	10663.0	11198.2	11688.6	12119.1	12508.7	12845.7	13145.5	13404.5	13620.5
-37.5°	5674.3	7518.4	9027.2	10324.3	10960.7	11399.9	11780.6	12114.2	12409.5	12648.5	12847.6
-40°	4745.2	5314.5	6968.0	8446.4	9585.2	10611.6	10986.4	11324.5	11616.0	11851.4	12046.9
-42.5°	4388.5	4649.6	4931.4	6063.6	7430.4	8573.7	9471.9	10280.3	10747.7	10984.9	11181.8
-45°	4165.9	4319.7	4492.3	4740.2	4971.6	5997.8	7069.2	8031.3	8715.9	9280.6	9748.2
-47.5°	3814.8	4058.8	4218.2	4345.9	4491.0	4689.0	4869.3	5149.1	5930.1	6599.2	7152.5
-50°	3397.2	3648.5	3863.1	4064.4	4195.7	4297.1	4389.2	4503.3	4634.1	4745.9	4838.3
-52.5°	2937.2	3178.8	3408.3	3617.1	3789.9	3948.7	4092.7	4178.0	4244.5	4301.3	4348.2
-55°	2505.3	2712.7	2908.0	3101.8	3285.3	3453.7	3602.6	3720.6	3824.0	3912.3	3985.1
-57.5°	2099.1	2271.1	2438.1	2605.7	2760.8	2903.0	3037.9	3162.4	3271.3	3364.2	3440.7
-60°	1711.8	1858.5	2005.6	2143.5	2271.1	2388.1	2505.3	2609.7	2700.9	2778.7	2842.7
-62.5°	1343.3	1470.0	1595.2	1711.8	1819.6	1921.7	2017.3	2102.3	2176.6	2239.9	2292.0
-65°	1013.2	1118.2	1216.7	1308.3	1393.4	1482.1	1562.1	1633.3	1695.4	1748.3	1791.8
-67.5°	719.1	800.5	876.8	947.8	1019.8	1088.7	1150.8	1206.1	1254.3	1295.3	1329.1
-70°	463.5	521.4	575.7	630.7	688.4	741.1	788.6	830.8	867.6	898.9	924.6
-72.5°	262.5	293.0	325.9	369.8	410.2	447.0	480.3	509.8	535.5	557.3	575.3
-75°	131.6	145.9	170.2	192.7	213.5	232.5	249.5	264.7	277.9	289.1	298.3
-77.5°	80.1	87.9	95.1	101.8	108.0	113.7	118.8	123.3	127.2	130.6	133.3
-80°	57.8	60.1	62.2	64.1	65.9	67.6	69.1	70.4	71.5	72.5	73.3
-82.5°	41.6	42.9	44.2	45.3	46.4	47.3	48.2	49.0	49.6	50.2	50.7
-85°	28.2	28.9	29.5	30.1	30.7	31.1	31.6	32.0	32.3	32.6	32.9
-87.5°	15.7	16.2	16.6	17.0	17.4	17.7	18.0	18.3	18.5	18.7	18.9
-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: P699859 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-2S-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°	19.0	19.1	19.2	19.2	19.2	19.1	19.0	18.9	18.7	18.5	18.3
85°	33.1	33.2	33.3	33.3	33.3	33.2	33.1	32.9	32.6	32.3	32.0
82.5°	51.0	51.3	51.4	51.5	51.4	51.3	51.0	50.7	50.2	49.6	49.0
80°	73.9	74.3	74.6	74.7	74.6	74.3	73.9	73.3	72.5	71.5	70.4
77.5°	135.4	137.0	137.9	138.2	137.9	137.0	135.4	133.3	130.6	127.2	123.3
75°	305.5	310.7	313.8	314.8	313.8	310.7	305.5	298.3	289.1	277.9	264.7
72.5°	589.3	599.4	605.4	607.4	605.4	599.4	589.3	575.3	557.3	535.5	509.8
70°	944.7	959.1	967.7	970.6	967.7	959.1	944.7	924.6	898.9	867.6	830.8
67.5°	1355.4	1374.3	1385.6	1389.4	1385.6	1374.3	1355.4	1329.1	1295.3	1254.3	1206.1
65°	1825.8	1850.2	1864.8	1869.7	1864.8	1850.2	1825.8	1791.8	1748.3	1695.4	1633.3
62.5°	2332.7	2361.9	2379.4	2385.3	2379.4	2361.9	2332.7	2292.0	2239.9	2176.6	2102.3
60°	2892.7	2928.6	2950.2	2957.4	2950.2	2928.6	2892.7	2842.7	2778.7	2700.9	2609.7
57.5°	3500.5	3543.5	3569.3	3577.9	3569.3	3543.5	3500.5	3440.7	3364.2	3271.3	3162.4
55°	4042.0	4082.9	4107.5	4115.7	4107.5	4082.9	4042.0	3985.1	3912.3	3824.0	3720.6
52.5°	4385.0	4411.3	4427.2	4432.5	4427.2	4411.3	4385.0	4348.2	4301.3	4244.5	4178.0
50°	4910.8	4962.8	4994.1	5004.6	4994.1	4962.8	4910.8	4838.3	4745.9	4634.1	4503.3
47.5°	7586.6	7898.7	8086.8	8149.6	8086.8	7898.7	7586.6	7152.5	6599.2	5930.1	5149.1
45°	10115.5	10379.8	10539.1	10592.4	10539.1	10379.8	10115.5	9748.2	9280.6	8715.9	8031.3
42.5°	11336.5	11448.0	11515.3	11537.8	11515.3	11448.0	11336.5	11181.8	10984.9	10747.7	10280.3
40°	12200.9	12312.0	12379.1	12401.5	12379.1	12312.0	12200.9	12046.9	11851.4	11616.0	11324.5
37.5°	13004.7	13118.1	13186.7	13209.7	13186.7	13118.1	13004.7	12847.6	12648.5	12409.5	12114.2
35°	13791.4	13915.0	13989.8	14014.9	13989.8	13915.0	13791.4	13620.5	13404.5	13145.5	12845.7
32.5°	14670.2	14828.9	14925.1	14957.3	14925.1	14828.9	14670.2	14451.5	14175.7	13871.0	13547.3
30°	15749.9	15970.8	16104.9	16149.9	16104.9	15970.8	15749.9	15446.3	15064.7	14683.6	14272.8
27.5°	18165.9	18821.3	19220.5	19354.5	19220.5	18821.3	18165.9	17267.8	16147.7	15652.7	15088.3
25°	26248.2	28913.3	30541.4	31089.1	30541.4	28913.3	26248.2	22612.2	19008.3	17554.1	16059.2
22.5°	46693.9	54059.3	58578.0	60101.6	58578.0	54059.3	46693.9	36703.2	28364.6	22528.9	18428.6
20°	82781.2	96367.5	104751.1	107586.8	104751.1	96367.5	82781.2	64494.1	49094.3	33245.1	24813.8
17.5°	136683.7	160216.1	174856.3	179830.6	174856.3	160216.1	136683.7	106110.7	81156.9	55518.4	36274.5
15°	213273.5	254146.4	279881.0	288684.6	279881.0	254146.4	213273.5	166426.2	123963.4	86872.2	55518.4
12.5°	310364.6	365849.6	403869.9	417356.8	403869.9	365849.6	310364.6	246975.3	176739.5	123963.4	81156.9
10°	418626.6	491035.9	538128.6	554665.9	538128.6	491035.9	418626.6	331431.0	246975.3	166426.2	106110.7
7.5°	522565.5	611854.8	675781.9	697556.8	675781.9	611854.8	522565.5	418626.6	310364.6	213273.5	136683.7
5°	611854.8	720950.5	786365.0	809295.1	786365.0	720950.5	611854.8	491035.9	365849.6	254146.4	160216.1
2.5°	675781.9	786365.0	860418.8	894187.1	860418.8	786365.0	675781.9	538128.6	403869.9	279881.0	174856.3
0°	697556.8	809295.1	894187.1	941045.2	894187.1	809295.1	697556.8	554665.9	417356.8	288684.6	179830.6
-2.5°	675781.9	786365.0	860418.8	894187.1	860418.8	786365.0	675781.9	538128.6	403869.9	279881.0	174856.3
-5°	611854.8	720950.5	786365.0	809295.1	786365.0	720950.5	611854.8	491035.9	365849.6	254146.4	160216.1
-7.5°	522565.5	611854.8	675781.9	697556.8	675781.9	611854.8	522565.5	418626.6	310364.6	213273.5	136683.7
-10°	418626.6	491035.9	538128.6	554665.9	538128.6	491035.9	418626.6	331431.0	246975.3	166426.2	106110.7
-12.5°	310364.6	365849.6	403869.9	417356.8	403869.9	365849.6	310364.6	246975.3	176739.5	123963.4	81156.9
-15°	213273.5	254146.4	279881.0	288684.6	279881.0	254146.4	213273.5	166426.2	123963.4	86872.2	55518.4
-17.5°	136683.7	160216.1	174856.3	179830.6	174856.3	160216.1	136683.7	106110.7	81156.9	55518.4	36274.5
-20°	82781.2	96367.5	104751.1	107586.8	104751.1	96367.5	82781.2	64494.1	49094.3	33245.1	24813.8



REPORT NUMBER: P699859 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-2S-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	46693.9	54059.3	58578.0	60101.6	58578.0	54059.3	46693.9	36703.2	28364.6	22528.9	18428.6
-25°	26248.2	28913.3	30541.4	31089.1	30541.4	28913.3	26248.2	22612.2	19008.3	17554.1	16059.2
-27.5°	18165.9	18821.3	19220.5	19354.5	19220.5	18821.3	18165.9	17267.8	16147.7	15652.7	15088.3
-30°	15749.9	15970.8	16104.9	16149.9	16104.9	15970.8	15749.9	15446.3	15064.7	14683.6	14272.8
-32.5°	14670.2	14828.9	14925.1	14957.3	14925.1	14828.9	14670.2	14451.5	14175.7	13871.0	13547.3
-35°	13791.4	13915.0	13989.8	14014.9	13989.8	13915.0	13791.4	13620.5	13404.5	13145.5	12845.7
-37.5°	13004.7	13118.1	13186.7	13209.7	13186.7	13118.1	13004.7	12847.6	12648.5	12409.5	12114.2
-40°	12200.9	12312.0	12379.1	12401.5	12379.1	12312.0	12200.9	12046.9	11851.4	11616.0	11324.5
-42.5°	11336.5	11448.0	11515.3	11537.8	11515.3	11448.0	11336.5	11181.8	10984.9	10747.7	10280.3
-45°	10115.5	10379.8	10539.1	10592.4	10539.1	10379.8	10115.5	9748.2	9280.6	8715.9	8031.3
-47.5°	7586.6	7898.7	8086.8	8149.6	8086.8	7898.7	7586.6	7152.5	6599.2	5930.1	5149.1
-50°	4910.8	4962.8	4994.1	5004.6	4994.1	4962.8	4910.8	4838.3	4745.9	4634.1	4503.3
-52.5°	4385.0	4411.3	4427.2	4432.5	4427.2	4411.3	4385.0	4348.2	4301.3	4244.5	4178.0
-55°	4042.0	4082.9	4107.5	4115.7	4107.5	4082.9	4042.0	3985.1	3912.3	3824.0	3720.6
-57.5°	3500.5	3543.5	3569.3	3577.9	3569.3	3543.5	3500.5	3440.7	3364.2	3271.3	3162.4
-60°	2892.7	2928.6	2950.2	2957.4	2950.2	2928.6	2892.7	2842.7	2778.7	2700.9	2609.7
-62.5°	2332.7	2361.9	2379.4	2385.3	2379.4	2361.9	2332.7	2292.0	2239.9	2176.6	2102.3
-65°	1825.8	1850.2	1864.8	1869.7	1864.8	1850.2	1825.8	1791.8	1748.3	1695.4	1633.3
-67.5°	1355.4	1374.3	1385.6	1389.4	1385.6	1374.3	1355.4	1329.1	1295.3	1254.3	1206.1
-70°	944.7	959.1	967.7	970.6	967.7	959.1	944.7	924.6	898.9	867.6	830.8
-72.5°	589.3	599.4	605.4	607.4	605.4	599.4	589.3	575.3	557.3	535.5	509.8
-75°	305.5	310.7	313.8	314.8	313.8	310.7	305.5	298.3	289.1	277.9	264.7
-77.5°	135.4	137.0	137.9	138.2	137.9	137.0	135.4	133.3	130.6	127.2	123.3
-80°	73.9	74.3	74.6	74.7	74.6	74.3	73.9	73.3	72.5	71.5	70.4
-82.5°	51.0	51.3	51.4	51.5	51.4	51.3	51.0	50.7	50.2	49.6	49.0
-85°	33.1	33.2	33.3	33.3	33.3	33.2	33.1	32.9	32.6	32.3	32.0
-87.5°	19.0	19.1	19.2	19.2	19.2	19.1	19.0	18.9	18.7	18.5	18.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699859 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-2S-S

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°	18.0	17.7	17.4	17.0	16.6	16.2	15.7	15.2	14.7	14.2	13.6
85°	31.6	31.1	30.7	30.1	29.5	28.9	28.2	27.5	26.7	25.9	25.0
82.5°	48.2	47.3	46.4	45.3	44.2	42.9	41.6	40.2	38.7	37.1	35.5
80°	69.1	67.6	65.9	64.1	62.2	60.1	57.8	55.4	52.8	50.4	48.2
77.5°	118.8	113.7	108.0	101.8	95.1	87.9	80.1	73.7	70.5	67.1	63.6
75°	249.5	232.5	213.5	192.7	170.2	145.9	131.6	121.7	111.2	100.1	88.6
72.5°	480.3	447.0	410.2	369.8	325.9	293.0	262.5	230.2	196.0	160.0	132.5
70°	788.6	741.1	688.4	630.7	575.7	521.4	463.5	401.9	336.9	286.9	243.8
67.5°	1150.8	1088.7	1019.8	947.8	876.8	800.5	719.1	632.7	554.4	477.3	396.7
65°	1562.1	1482.1	1393.4	1308.3	1216.7	1118.2	1013.2	911.0	809.3	702.5	594.3
62.5°	2017.3	1921.7	1819.6	1711.8	1595.2	1470.0	1343.3	1220.1	1090.4	956.6	833.6
60°	2505.3	2388.1	2271.1	2143.5	2005.6	1858.5	1711.8	1556.7	1393.4	1243.9	1088.7
57.5°	3037.9	2903.0	2760.8	2605.7	2438.1	2271.1	2099.1	1917.3	1736.2	1550.2	1360.8
55°	3602.6	3453.7	3285.3	3101.8	2908.0	2712.7	2505.3	2296.2	2089.3	1873.2	1663.6
52.5°	4092.7	3948.7	3789.9	3617.1	3408.3	3178.8	2937.2	2700.9	2453.2	2213.8	1972.1
50°	4389.2	4297.1	4195.7	4064.4	3863.1	3648.5	3397.2	3121.5	2842.7	2565.8	2289.2
47.5°	4869.3	4689.0	4491.0	4345.9	4218.2	4058.8	3814.8	3555.7	3247.0	2928.6	2622.4
45°	7069.2	5997.8	4971.6	4740.2	4492.3	4319.7	4165.9	3927.3	3642.0	3310.3	2957.4
42.5°	9471.9	8573.7	7430.4	6063.6	4931.4	4649.6	4388.5	4216.8	3983.9	3669.9	3310.3
40°	10986.4	10611.6	9585.2	8446.4	6968.0	5314.5	4745.2	4423.2	4233.8	3983.9	3642.0
37.5°	11780.6	11399.9	10960.7	10324.3	9027.2	7518.4	5674.3	4777.3	4423.2	4216.8	3927.3
35°	12508.7	12119.1	11688.6	11198.2	10663.0	9320.9	7703.1	5674.3	4745.2	4388.5	4165.9
32.5°	13184.6	12785.1	12350.1	11857.7	11318.4	10721.6	9320.9	7518.4	5314.5	4649.6	4319.7
30°	13843.8	13415.8	12954.3	12463.0	11914.5	11318.4	10663.0	9027.2	6968.0	4931.4	4492.3
27.5°	14565.9	14027.7	13533.3	13011.3	12463.0	11857.7	11198.2	10324.3	8446.4	6063.6	4740.2
25°	15382.7	14715.3	14099.6	13533.3	12954.3	12350.1	11688.6	10960.7	9585.2	7430.4	4971.6
22.5°	16465.0	15482.2	14715.3	14027.7	13415.8	12785.1	12119.1	11399.9	10611.6	8573.7	5997.8
20°	18725.3	16465.0	15382.7	14565.9	13843.8	13184.6	12508.7	11780.6	10986.4	9471.9	7069.2
17.5°	24813.8	18428.6	16059.2	15088.3	14272.8	13547.3	12845.7	12114.2	11324.5	10280.3	8031.3
15°	33245.1	22528.9	17554.1	15652.7	14683.6	13871.0	13145.5	12409.5	11616.0	10747.7	8715.9
12.5°	49094.3	28364.6	19008.3	16147.7	15064.7	14175.7	13404.5	12648.5	11851.4	10984.9	9280.6
10°	64494.1	36703.2	22612.2	17267.8	15446.3	14451.5	13620.5	12847.6	12046.9	11181.8	9748.2
7.5°	82781.2	46693.9	26248.2	18165.9	15749.9	14670.2	13791.4	13004.7	12200.9	11336.5	10115.5
5°	96367.5	54059.3	28913.3	18821.3	15970.8	14828.9	13915.0	13118.1	12312.0	11448.0	10379.8
2.5°	104751.1	58578.0	30541.4	19220.5	16104.9	14925.1	13989.8	13186.7	12379.1	11515.3	10539.1
0°	107586.8	60101.6	31089.1	19354.5	16149.9	14957.3	14014.9	13209.7	12401.5	11537.8	10592.4
-2.5°	104751.1	58578.0	30541.4	19220.5	16104.9	14925.1	13989.8	13186.7	12379.1	11515.3	10539.1
-5°	96367.5	54059.3	28913.3	18821.3	15970.8	14828.9	13915.0	13118.1	12312.0	11448.0	10379.8
-7.5°	82781.2	46693.9	26248.2	18165.9	15749.9	14670.2	13791.4	13004.7	12200.9	11336.5	10115.5
-10°	64494.1	36703.2	22612.2	17267.8	15446.3	14451.5	13620.5	12847.6	12046.9	11181.8	9748.2
-12.5°	49094.3	28364.6	19008.3	16147.7	15064.7	14175.7	13404.5	12648.5	11851.4	10984.9	9280.6
-15°	33245.1	22528.9	17554.1	15652.7	14683.6	13871.0	13145.5	12409.5	11616.0	10747.7	8715.9
-17.5°	24813.8	18428.6	16059.2	15088.3	14272.8	13547.3	12845.7	12114.2	11324.5	10280.3	8031.3
-20°	18725.3	16465.0	15382.7	14565.9	13843.8	13184.6	12508.7	11780.6	10986.4	9471.9	7069.2



REPORT NUMBER: P699859 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-2S-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	16465.0	15482.2	14715.3	14027.7	13415.8	12785.1	12119.1	11399.9	10611.6	8573.7	5997.8
-25°	15382.7	14715.3	14099.6	13533.3	12954.3	12350.1	11688.6	10960.7	9585.2	7430.4	4971.6
-27.5°	14565.9	14027.7	13533.3	13011.3	12463.0	11857.7	11198.2	10324.3	8446.4	6063.6	4740.2
-30°	13843.8	13415.8	12954.3	12463.0	11914.5	11318.4	10663.0	9027.2	6968.0	4931.4	4492.3
-32.5°	13184.6	12785.1	12350.1	11857.7	11318.4	10721.6	9320.9	7518.4	5314.5	4649.6	4319.7
-35°	12508.7	12119.1	11688.6	11198.2	10663.0	9320.9	7703.1	5674.3	4745.2	4388.5	4165.9
-37.5°	11780.6	11399.9	10960.7	10324.3	9027.2	7518.4	5674.3	4777.3	4423.2	4216.8	3927.3
-40°	10986.4	10611.6	9585.2	8446.4	6968.0	5314.5	4745.2	4423.2	4233.8	3983.9	3642.0
-42.5°	9471.9	8573.7	7430.4	6063.6	4931.4	4649.6	4388.5	4216.8	3983.9	3669.9	3310.3
-45°	7069.2	5997.8	4971.6	4740.2	4492.3	4319.7	4165.9	3927.3	3642.0	3310.3	2957.4
-47.5°	4869.3	4689.0	4491.0	4345.9	4218.2	4058.8	3814.8	3555.7	3247.0	2928.6	2622.4
-50°	4389.2	4297.1	4195.7	4064.4	3863.1	3648.5	3397.2	3121.5	2842.7	2565.8	2289.2
-52.5°	4092.7	3948.7	3789.9	3617.1	3408.3	3178.8	2937.2	2700.9	2453.2	2213.8	1972.1
-55°	3602.6	3453.7	3285.3	3101.8	2908.0	2712.7	2505.3	2296.2	2089.3	1873.2	1663.6
-57.5°	3037.9	2903.0	2760.8	2605.7	2438.1	2271.1	2099.1	1917.3	1736.2	1550.2	1360.8
-60°	2505.3	2388.1	2271.1	2143.5	2005.6	1858.5	1711.8	1556.7	1393.4	1243.9	1088.7
-62.5°	2017.3	1921.7	1819.6	1711.8	1595.2	1470.0	1343.3	1220.1	1090.4	956.6	833.6
-65°	1562.1	1482.1	1393.4	1308.3	1216.7	1118.2	1013.2	911.0	809.3	702.5	594.3
-67.5°	1150.8	1088.7	1019.8	947.8	876.8	800.5	719.1	632.7	554.4	477.3	396.7
-70°	788.6	741.1	688.4	630.7	575.7	521.4	463.5	401.9	336.9	286.9	243.8
-72.5°	480.3	447.0	410.2	369.8	325.9	293.0	262.5	230.2	196.0	160.0	132.5
-75°	249.5	232.5	213.5	192.7	170.2	145.9	131.6	121.7	111.2	100.1	88.6
-77.5°	118.8	113.7	108.0	101.8	95.1	87.9	80.1	73.7	70.5	67.1	63.6
-80°	69.1	67.6	65.9	64.1	62.2	60.1	57.8	55.4	52.8	50.4	48.2
-82.5°	48.2	47.3	46.4	45.3	44.2	42.9	41.6	40.2	38.7	37.1	35.5
-85°	31.6	31.1	30.7	30.1	29.5	28.9	28.2	27.5	26.7	25.9	25.0
-87.5°	18.0	17.7	17.4	17.0	16.6	16.2	15.7	15.2	14.7	14.2	13.6
-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: P699859 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-2S-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°	13.0	12.3	11.7	11.0	10.3	9.6	8.9	8.1	7.3	6.6	5.8
85°	24.1	23.2	22.3	21.3	20.2	19.2	17.7	16.2	14.7	13.1	11.5
82.5°	33.7	32.2	30.8	29.3	27.8	26.2	24.6	22.9	21.2	19.5	17.3
80°	45.9	43.6	41.1	38.5	35.9	33.2	31.0	28.8	26.6	24.3	22.0
77.5°	59.9	56.1	52.2	48.8	45.5	42.1	38.7	35.1	31.9	29.0	26.1
75°	76.5	70.8	66.0	61.1	56.1	51.0	46.9	42.6	38.3	33.9	30.3
72.5°	118.4	103.8	88.6	74.1	68.2	62.1	56.0	50.1	45.0	39.9	34.7
70°	198.9	152.3	125.9	108.1	89.7	73.3	66.2	59.0	51.7	45.8	39.9
67.5°	313.6	261.1	206.8	150.9	122.1	100.9	79.2	68.3	60.0	51.7	45.0
65°	500.9	404.1	308.3	246.2	182.3	130.6	106.5	82.0	68.3	59.0	50.1
62.5°	705.7	580.0	469.9	356.7	269.9	198.1	133.4	106.5	79.2	66.2	56.0
60°	933.2	788.6	639.5	509.8	383.1	277.9	198.1	130.6	100.9	73.3	62.1
57.5°	1185.7	1004.8	838.7	672.7	523.1	383.1	269.9	182.3	122.1	89.7	68.2
55°	1446.9	1244.4	1043.7	855.5	672.7	509.8	356.7	246.2	150.9	108.1	74.1
52.5°	1732.3	1492.3	1264.1	1043.7	838.7	639.5	469.9	308.3	206.8	125.9	88.6
50°	2022.0	1755.3	1492.3	1244.4	1004.8	788.6	580.0	404.1	261.1	152.3	103.8
47.5°	2314.5	2022.0	1732.3	1446.9	1185.7	933.2	705.7	500.9	313.6	198.9	118.4
45°	2622.4	2289.2	1972.1	1663.6	1360.8	1088.7	833.6	594.3	396.7	243.8	132.5
42.5°	2928.6	2565.8	2213.8	1873.2	1550.2	1243.9	956.6	702.5	477.3	286.9	160.0
40°	3247.0	2842.7	2453.2	2089.3	1736.2	1393.4	1090.4	809.3	554.4	336.9	196.0
37.5°	3555.7	3121.5	2700.9	2296.2	1917.3	1556.7	1220.1	911.0	632.7	401.9	230.2
35°	3814.8	3397.2	2937.2	2505.3	2099.1	1711.8	1343.3	1013.2	719.1	463.5	262.5
32.5°	4058.8	3648.5	3178.8	2712.7	2271.1	1858.5	1470.0	1118.2	800.5	521.4	293.0
30°	4218.2	3863.1	3408.3	2908.0	2438.1	2005.6	1595.2	1216.7	876.8	575.7	325.9
27.5°	4345.9	4064.4	3617.1	3101.8	2605.7	2143.5	1711.8	1308.3	947.8	630.7	369.8
25°	4491.0	4195.7	3789.9	3285.3	2760.8	2271.1	1819.6	1393.4	1019.8	688.4	410.2
22.5°	4689.0	4297.1	3948.7	3453.7	2903.0	2388.1	1921.7	1482.1	1088.7	741.1	447.0
20°	4869.3	4389.2	4092.7	3602.6	3037.9	2505.3	2017.3	1562.1	1150.8	788.6	480.3
17.5°	5149.1	4503.3	4178.0	3720.6	3162.4	2609.7	2102.3	1633.3	1206.1	830.8	509.8
15°	5930.1	4634.1	4244.5	3824.0	3271.3	2700.9	2176.6	1695.4	1254.3	867.6	535.5
12.5°	6599.2	4745.9	4301.3	3912.3	3364.2	2778.7	2239.9	1748.3	1295.3	898.9	557.3
10°	7152.5	4838.3	4348.2	3985.1	3440.7	2842.7	2292.0	1791.8	1329.1	924.6	575.3
7.5°	7586.6	4910.8	4385.0	4042.0	3500.5	2892.7	2332.7	1825.8	1355.4	944.7	589.3
5°	7898.7	4962.8	4411.3	4082.9	3543.5	2928.6	2361.9	1850.2	1374.3	959.1	599.4
2.5°	8086.8	4994.1	4427.2	4107.5	3569.3	2950.2	2379.4	1864.8	1385.6	967.7	605.4
0°	8149.6	5004.6	4432.5	4115.7	3577.9	2957.4	2385.3	1869.7	1389.4	970.6	607.4
-2.5°	8086.8	4994.1	4427.2	4107.5	3569.3	2950.2	2379.4	1864.8	1385.6	967.7	605.4
-5°	7898.7	4962.8	4411.3	4082.9	3543.5	2928.6	2361.9	1850.2	1374.3	959.1	599.4
-7.5°	7586.6	4910.8	4385.0	4042.0	3500.5	2892.7	2332.7	1825.8	1355.4	944.7	589.3
-10°	7152.5	4838.3	4348.2	3985.1	3440.7	2842.7	2292.0	1791.8	1329.1	924.6	575.3
-12.5°	6599.2	4745.9	4301.3	3912.3	3364.2	2778.7	2239.9	1748.3	1295.3	898.9	557.3
-15°	5930.1	4634.1	4244.5	3824.0	3271.3	2700.9	2176.6	1695.4	1254.3	867.6	535.5
-17.5°	5149.1	4503.3	4178.0	3720.6	3162.4	2609.7	2102.3	1633.3	1206.1	830.8	509.8
-20°	4869.3	4389.2	4092.7	3602.6	3037.9	2505.3	2017.3	1562.1	1150.8	788.6	480.3



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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°	4689.0	4297.1	3948.7	3453.7	2903.0	2388.1	1921.7	1482.1	1088.7	741.1	447.0
-25°	4491.0	4195.7	3789.9	3285.3	2760.8	2271.1	1819.6	1393.4	1019.8	688.4	410.2
-27.5°	4345.9	4064.4	3617.1	3101.8	2605.7	2143.5	1711.8	1308.3	947.8	630.7	369.8
-30°	4218.2	3863.1	3408.3	2908.0	2438.1	2005.6	1595.2	1216.7	876.8	575.7	325.9
-32.5°	4058.8	3648.5	3178.8	2712.7	2271.1	1858.5	1470.0	1118.2	800.5	521.4	293.0
-35°	3814.8	3397.2	2937.2	2505.3	2099.1	1711.8	1343.3	1013.2	719.1	463.5	262.5
-37.5°	3555.7	3121.5	2700.9	2296.2	1917.3	1556.7	1220.1	911.0	632.7	401.9	230.2
-40°	3247.0	2842.7	2453.2	2089.3	1736.2	1393.4	1090.4	809.3	554.4	336.9	196.0
-42.5°	2928.6	2565.8	2213.8	1873.2	1550.2	1243.9	956.6	702.5	477.3	286.9	160.0
-45°	2622.4	2289.2	1972.1	1663.6	1360.8	1088.7	833.6	594.3	396.7	243.8	132.5
-47.5°	2314.5	2022.0	1732.3	1446.9	1185.7	933.2	705.7	500.9	313.6	198.9	118.4
-50°	2022.0	1755.3	1492.3	1244.4	1004.8	788.6	580.0	404.1	261.1	152.3	103.8
-52.5°	1732.3	1492.3	1264.1	1043.7	838.7	639.5	469.9	308.3	206.8	125.9	88.6
-55°	1446.9	1244.4	1043.7	855.5	672.7	509.8	356.7	246.2	150.9	108.1	74.1
-57.5°	1185.7	1004.8	838.7	672.7	523.1	383.1	269.9	182.3	122.1	89.7	68.2
-60°	933.2	788.6	639.5	509.8	383.1	277.9	198.1	130.6	100.9	73.3	62.1
-62.5°	705.7	580.0	469.9	356.7	269.9	198.1	133.4	106.5	79.2	66.2	56.0
-65°	500.9	404.1	308.3	246.2	182.3	130.6	106.5	82.0	68.3	59.0	50.1
-67.5°	313.6	261.1	206.8	150.9	122.1	100.9	79.2	68.3	60.0	51.7	45.0
-70°	198.9	152.3	125.9	108.1	89.7	73.3	66.2	59.0	51.7	45.8	39.9
-72.5°	118.4	103.8	88.6	74.1	68.2	62.1	56.0	50.1	45.0	39.9	34.7
-75°	76.5	70.8	66.0	61.1	56.1	51.0	46.9	42.6	38.3	33.9	30.3
-77.5°	59.9	56.1	52.2	48.8	45.5	42.1	38.7	35.1	31.9	29.0	26.1
-80°	45.9	43.6	41.1	38.5	35.9	33.2	31.0	28.8	26.6	24.3	22.0
-82.5°	33.7	32.2	30.8	29.3	27.8	26.2	24.6	22.9	21.2	19.5	17.3
-85°	24.1	23.2	22.3	21.3	20.2	19.2	17.7	16.2	14.7	13.1	11.5
-87.5°	13.0	12.3	11.7	11.0	10.3	9.6	8.9	8.1	7.3	6.6	5.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	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°	5.0	4.2	3.3	2.5	1.7	0.8	0.0
85°	9.9	8.3	6.7	5.0	3.3	1.7	0.0
82.5°	14.9	12.4	10.0	7.5	5.0	2.5	0.0
80°	19.6	16.5	13.3	10.0	6.7	3.3	0.0
77.5°	23.2	20.2	16.5	12.4	8.3	4.2	0.0
75°	26.8	23.2	19.6	14.9	9.9	5.0	0.0
72.5°	30.3	26.1	22.0	17.3	11.5	5.8	0.0
70°	33.9	29.0	24.3	19.5	13.1	6.6	0.0
67.5°	38.3	31.9	26.6	21.2	14.7	7.3	0.0
65°	42.6	35.1	28.8	22.9	16.2	8.1	0.0
62.5°	46.9	38.7	31.0	24.6	17.7	8.9	0.0
60°	51.0	42.1	33.2	26.2	19.2	9.6	0.0
57.5°	56.1	45.5	35.9	27.8	20.2	10.3	0.0
55°	61.1	48.8	38.5	29.3	21.3	11.0	0.0
52.5°	66.0	52.2	41.1	30.8	22.3	11.7	0.0
50°	70.8	56.1	43.6	32.2	23.2	12.3	0.0
47.5°	76.5	59.9	45.9	33.7	24.1	13.0	0.0
45°	88.6	63.6	48.2	35.5	25.0	13.6	0.0
42.5°	100.1	67.1	50.4	37.1	25.9	14.2	0.0
40°	111.2	70.5	52.8	38.7	26.7	14.7	0.0
37.5°	121.7	73.7	55.4	40.2	27.5	15.2	0.0
35°	131.6	80.1	57.8	41.6	28.2	15.7	0.0
32.5°	145.9	87.9	60.1	42.9	28.9	16.2	0.0
30°	170.2	95.1	62.2	44.2	29.5	16.6	0.0
27.5°	192.7	101.8	64.1	45.3	30.1	17.0	0.0
25°	213.5	108.0	65.9	46.4	30.7	17.4	0.0
22.5°	232.5	113.7	67.6	47.3	31.1	17.7	0.0
20°	249.5	118.8	69.1	48.2	31.6	18.0	0.0
17.5°	264.7	123.3	70.4	49.0	32.0	18.3	0.0
15°	277.9	127.2	71.5	49.6	32.3	18.5	0.0
12.5°	289.1	130.6	72.5	50.2	32.6	18.7	0.0
10°	298.3	133.3	73.3	50.7	32.9	18.9	0.0
7.5°	305.5	135.4	73.9	51.0	33.1	19.0	0.0
5°	310.7	137.0	74.3	51.3	33.2	19.1	0.0
2.5°	313.8	137.9	74.6	51.4	33.3	19.2	0.0
0°	314.8	138.2	74.7	51.5	33.3	19.2	0.0
-2.5°	313.8	137.9	74.6	51.4	33.3	19.2	0.0
-5°	310.7	137.0	74.3	51.3	33.2	19.1	0.0
-7.5°	305.5	135.4	73.9	51.0	33.1	19.0	0.0
-10°	298.3	133.3	73.3	50.7	32.9	18.9	0.0
-12.5°	289.1	130.6	72.5	50.2	32.6	18.7	0.0
-15°	277.9	127.2	71.5	49.6	32.3	18.5	0.0
-17.5°	264.7	123.3	70.4	49.0	32.0	18.3	0.0
-20°	249.5	118.8	69.1	48.2	31.6	18.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	232.5	113.7	67.6	47.3	31.1	17.7	0.0
-25°	213.5	108.0	65.9	46.4	30.7	17.4	0.0
-27.5°	192.7	101.8	64.1	45.3	30.1	17.0	0.0
-30°	170.2	95.1	62.2	44.2	29.5	16.6	0.0
-32.5°	145.9	87.9	60.1	42.9	28.9	16.2	0.0
-35°	131.6	80.1	57.8	41.6	28.2	15.7	0.0
-37.5°	121.7	73.7	55.4	40.2	27.5	15.2	0.0
-40°	111.2	70.5	52.8	38.7	26.7	14.7	0.0
-42.5°	100.1	67.1	50.4	37.1	25.9	14.2	0.0
-45°	88.6	63.6	48.2	35.5	25.0	13.6	0.0
-47.5°	76.5	59.9	45.9	33.7	24.1	13.0	0.0
-50°	70.8	56.1	43.6	32.2	23.2	12.3	0.0
-52.5°	66.0	52.2	41.1	30.8	22.3	11.7	0.0
-55°	61.1	48.8	38.5	29.3	21.3	11.0	0.0
-57.5°	56.1	45.5	35.9	27.8	20.2	10.3	0.0
-60°	51.0	42.1	33.2	26.2	19.2	9.6	0.0
-62.5°	46.9	38.7	31.0	24.6	17.7	8.9	0.0
-65°	42.6	35.1	28.8	22.9	16.2	8.1	0.0
-67.5°	38.3	31.9	26.6	21.2	14.7	7.3	0.0
-70°	33.9	29.0	24.3	19.5	13.1	6.6	0.0
-72.5°	30.3	26.1	22.0	17.3	11.5	5.8	0.0
-75°	26.8	23.2	19.6	14.9	9.9	5.0	0.0
-77.5°	23.2	20.2	16.5	12.4	8.3	4.2	0.0
-80°	19.6	16.5	13.3	10.0	6.7	3.3	0.0
-82.5°	14.9	12.4	10.0	7.5	5.0	2.5	0.0
-85°	9.9	8.3	6.7	5.0	3.3	1.7	0.0
-87.5°	5.0	4.2	3.3	2.5	1.7	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)