

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: P1306443 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS16-1200L-40-80-4S-A**

Issue Date: 2/3/2026

Test Information

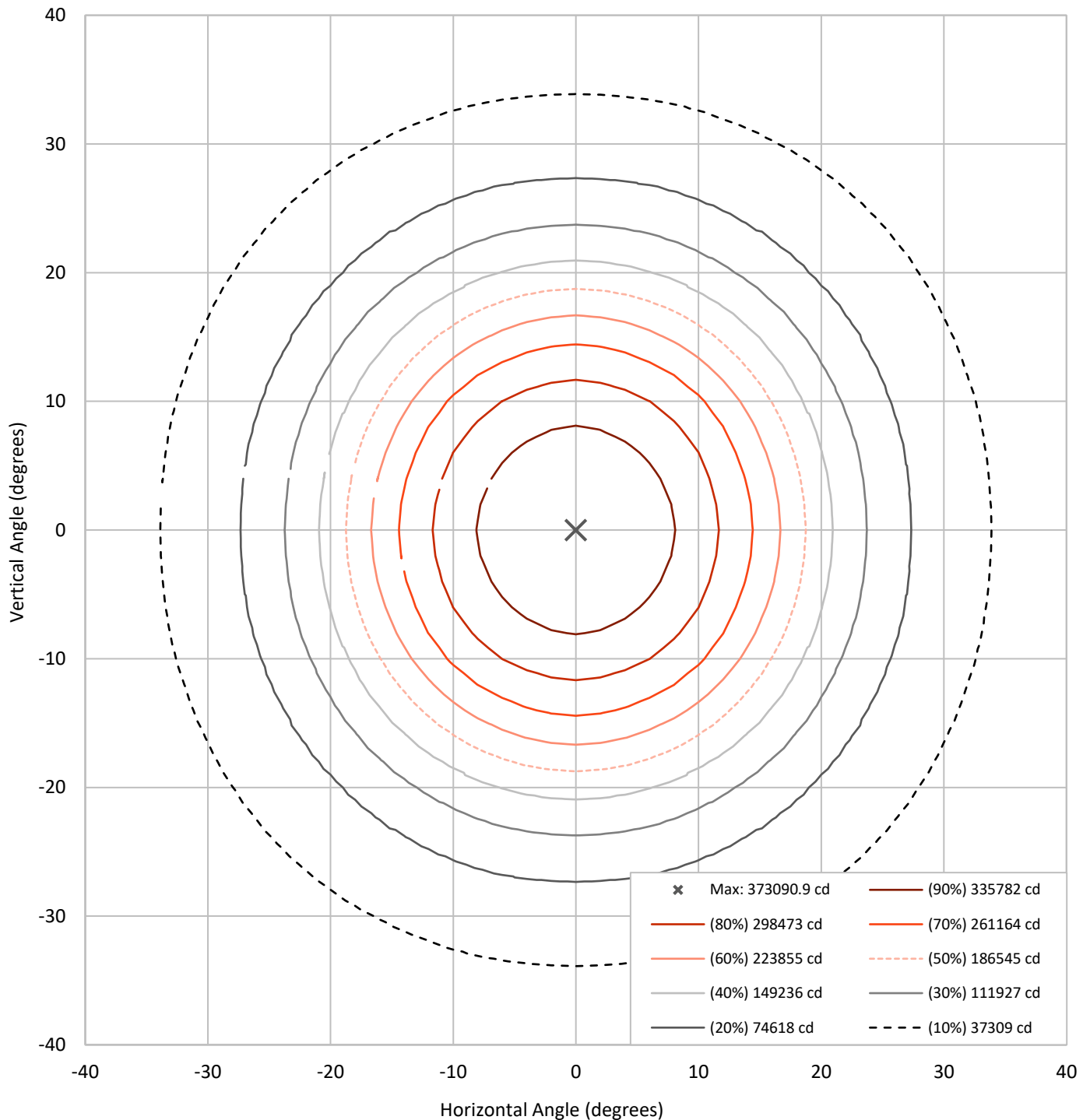
Test Method: LM-79-08
Report Number: P1306443 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-12)
Test Lab: INNOVATION CENTER
Issue Date: 2/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS16-1200L-40-80-4S-A
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	178046.1 lumens	Max Intensity:	373090.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	145.6 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	37.5°H x 37.5°V	Field Angle (10%):	67.8°H x 67.8°V
Beam Lumens:	90582.9 lumens	Field Lumens:	156646.2 lumens
Beam Efficiency:	50.9%	Field Efficiency:	88.0%
Input Watts (W):	1223		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





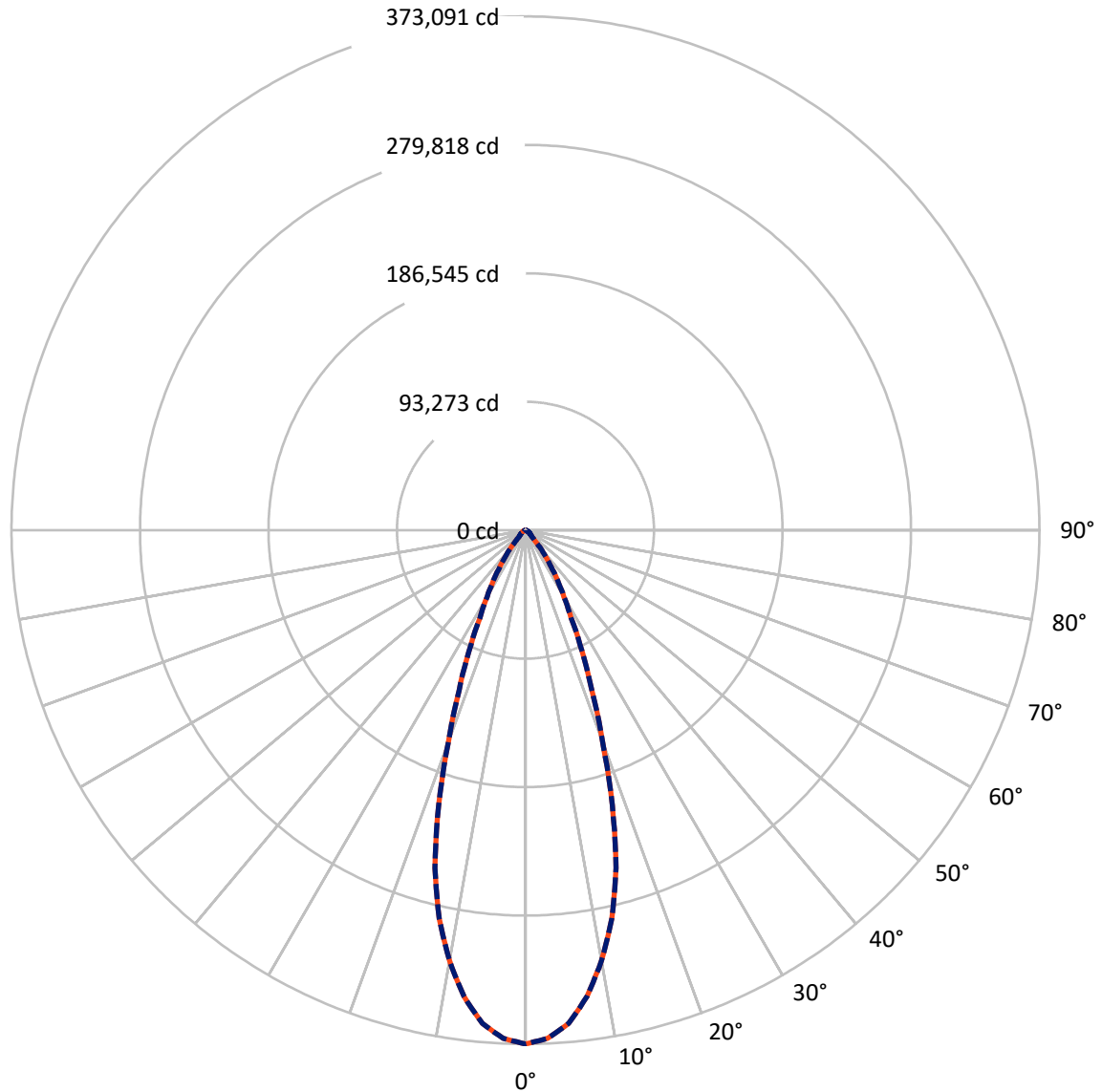
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Lumen Table

90	0.1	1.1	5.8	14.6	19.2	14.6	5.8	1.1	0.1							
80	0.1	1.1	5.8	14.6	19.2	14.6	5.8	1.1	0.1							
70	0.5	0.9	3.8	10.5	21.1	33.1	43.5	49.3	49.3	43.5	33.1	21.1	10.5	3.8	0.9	0.5
60		2.9	12.2	31.0	55.9	80.1	98.8	109.3	109.3	98.8	80.1	55.9	31.0	12.2	2.9	
50	2.0	6.5	25.4	57.1	92.7	132.1	183.8	232.2	232.2	183.8	132.1	92.7	57.1	25.4	6.5	2.0
40		11.2	39.6	80.3	141.4	336.0	696.3	975.5	975.5	696.3	336.0	141.4	80.3	39.6	11.2	
30	4.3	16.0	51.2	103.6	305.7	948.2	1925.7	2872.0	2872.0	1925.7	948.2	305.7	103.6	51.2	16.0	4.3
20		19.7	59.3	135.9	596.5	1813.6	4379.7	7012.1	7012.1	4379.7	1813.6	596.5	135.9	59.3	19.7	
10	5.4	21.7	63.6	167.5	811.0	2629.5	6813.6	10162.0	10162.0	6813.6	2629.5	811.0	167.5	63.6	21.7	5.4
0		21.7	63.6	167.5	811.0	2629.5	6813.6	10162.0	10162.0	6813.6	2629.5	811.0	167.5	63.6	21.7	
-10	4.3	19.7	59.3	135.9	596.5	1813.6	4379.7	7012.1	7012.1	4379.7	1813.6	596.5	135.9	59.3	19.7	4.3
-20		16.0	51.2	103.6	305.7	948.2	1925.7	2872.0	2872.0	1925.7	948.2	305.7	103.6	51.2	16.0	
-30	2.0	11.2	39.6	80.3	141.4	336.0	696.3	975.5	975.5	696.3	336.0	141.4	80.3	39.6	11.2	2.0
-40		6.5	25.4	57.1	92.7	132.1	183.8	232.2	232.2	183.8	132.1	92.7	57.1	25.4	6.5	
-50	0.5	2.9	12.2	31.0	55.9	80.1	98.8	109.3	109.3	98.8	80.1	55.9	31.0	12.2	2.9	0.5
-60		0.9	3.8	10.5	21.1	33.1	43.5	49.3	49.3	43.5	33.1	21.1	10.5	3.8	0.9	
-70	0.1	1.1	5.8	14.6	19.2	14.6	5.8	1.1	0.1							
-80		0.1	1.1	5.8	14.6	19.2	14.6	5.8	1.1	0.1						
-90	0.1	1.1	5.8	14.6	19.2	14.6	5.8	1.1	0.1							

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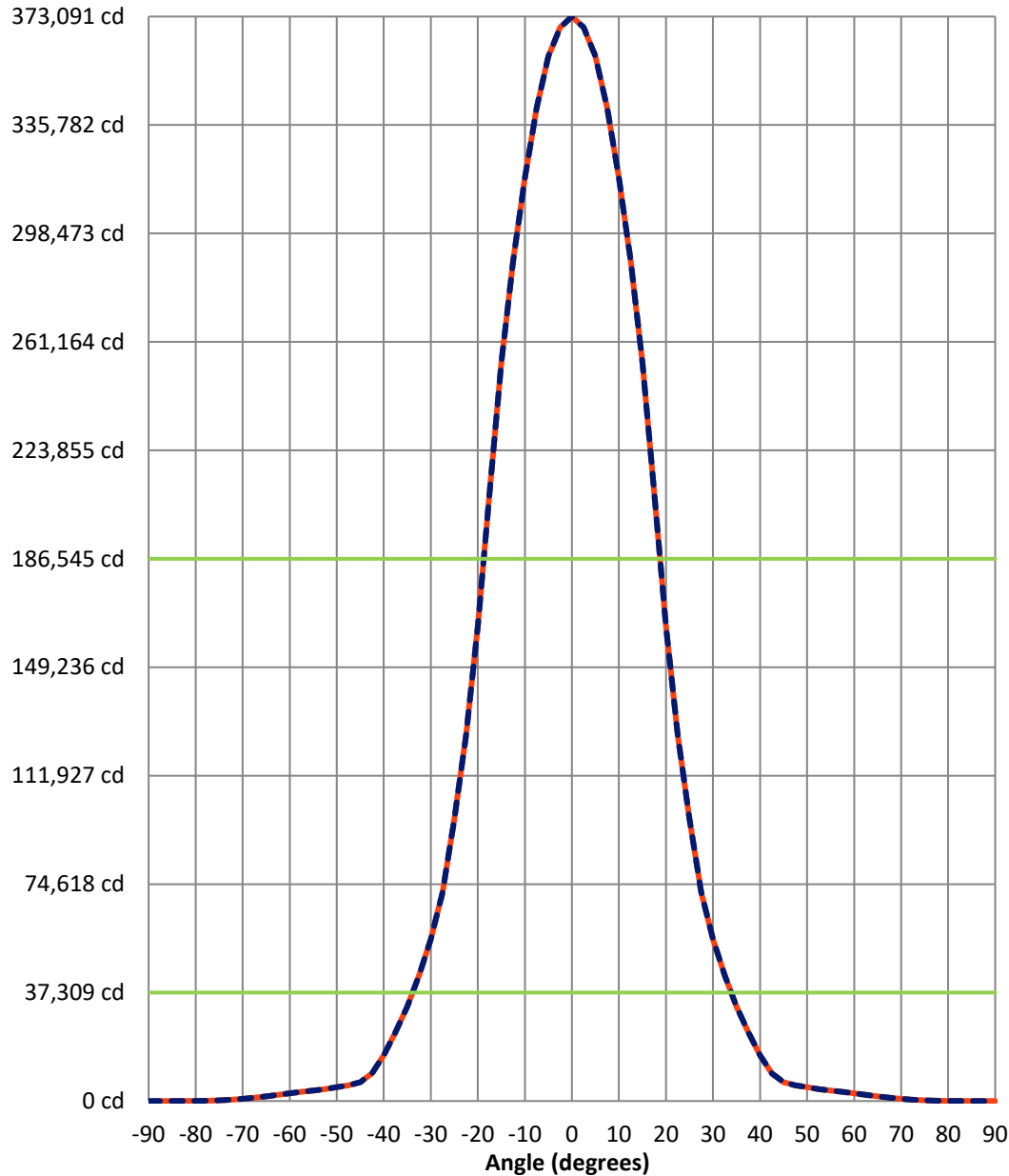
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 37.5°
V Angle: 37.5°
Lumens: 90582.9
Efficiency: 50.9%

Field:
H Angle: 67.8°
V Angle: 67.8°
Lumens: 156646.2
Efficiency: 88.0%

Spill:
Lumens: 21399.9
Efficiency: 12.0%

— 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	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
85°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
82.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	3.0	3.9	4.7
80°	0.0	0.5	1.0	1.5	1.9	2.4	3.0	4.2	5.4	6.6	7.8
77.5°	0.0	0.6	1.2	1.8	2.4	3.3	4.9	6.4	7.9	9.4	11.7
75°	0.0	0.7	1.4	2.2	3.0	4.9	6.7	8.5	10.6	14.6	18.6
72.5°	0.0	0.8	1.7	2.5	4.2	6.4	8.5	11.3	16.1	20.8	25.4
70°	0.0	1.0	1.9	3.0	5.4	7.9	10.6	16.1	21.5	26.9	33.5
67.5°	0.0	1.1	2.1	3.9	6.6	9.4	14.6	20.8	26.9	34.5	42.0
65°	0.0	1.2	2.4	4.7	7.8	11.7	18.6	25.4	33.5	42.0	55.9
62.5°	0.0	1.3	2.6	5.6	8.9	15.0	22.5	30.8	40.1	52.8	82.8
60°	0.0	1.4	2.8	6.4	10.0	18.2	26.3	36.4	46.5	76.6	109.3
57.5°	0.0	1.5	3.3	7.2	12.4	21.2	30.9	41.9	64.3	100.0	150.6
55°	0.0	1.6	3.9	8.0	14.9	24.3	35.5	47.2	84.5	127.1	198.1
52.5°	0.0	1.7	4.4	8.8	17.2	27.3	39.9	63.1	104.2	168.8	244.4
50°	0.0	1.8	4.9	9.6	19.5	30.9	44.2	79.8	128.2	209.2	310.9
47.5°	0.0	1.9	5.4	10.5	21.6	34.4	49.8	95.9	162.9	248.3	377.8
45°	0.0	2.0	5.8	12.1	23.7	37.7	63.0	111.5	196.4	305.8	442.4
42.5°	0.0	2.1	6.3	13.6	25.7	40.9	75.8	134.0	228.5	361.5	532.9
40°	0.0	2.1	6.7	15.0	27.9	44.0	87.9	160.7	264.5	414.8	624.2
37.5°	0.0	2.2	7.1	16.4	30.2	46.8	99.5	186.2	309.4	473.1	711.2
35°	0.0	2.3	7.5	17.7	32.4	53.7	110.4	210.3	352.0	547.1	801.8
32.5°	0.0	2.4	7.8	18.9	34.5	62.3	123.4	233.0	392.1	616.7	899.3
30°	0.0	2.4	8.1	20.0	36.4	70.3	141.5	256.9	429.6	682.0	990.8
27.5°	0.0	2.5	8.4	21.0	38.2	77.7	158.3	287.2	471.4	742.7	1075.9
25°	0.0	2.5	8.7	22.0	39.8	84.5	173.8	315.1	520.8	807.9	1155.1
22.5°	0.0	2.6	9.0	22.9	41.3	90.7	187.9	340.6	565.9	871.9	1240.6
20°	0.0	2.6	9.2	23.7	42.7	96.3	200.6	363.6	606.5	929.6	1317.8
17.5°	0.0	2.7	9.4	24.4	43.9	101.3	211.9	384.0	642.6	980.9	1386.5
15°	0.0	2.7	9.6	25.0	44.9	105.6	221.7	401.8	674.1	1025.7	1446.5
12.5°	0.0	2.7	9.8	25.5	45.8	109.3	230.1	416.9	700.9	1063.8	1497.5
10°	0.0	2.8	9.9	25.9	46.5	112.3	236.9	429.3	722.9	1095.2	1539.5
7.5°	0.0	2.8	10.0	26.3	47.1	114.7	242.3	439.0	740.0	1119.6	1572.3
5°	0.0	2.8	10.0	26.5	47.5	116.3	246.1	445.9	752.3	1137.2	1595.8
2.5°	0.0	2.8	10.1	26.7	47.7	117.4	248.4	450.1	759.7	1147.7	1609.9
0°	0.0	2.8	10.1	26.7	47.8	117.7	249.2	451.5	762.2	1151.2	1614.6
-2.5°	0.0	2.8	10.1	26.7	47.7	117.4	248.4	450.1	759.7	1147.7	1609.9
-5°	0.0	2.8	10.0	26.5	47.5	116.3	246.1	445.9	752.3	1137.2	1595.8
-7.5°	0.0	2.8	10.0	26.3	47.1	114.7	242.3	439.0	740.0	1119.6	1572.3
-10°	0.0	2.8	9.9	25.9	46.5	112.3	236.9	429.3	722.9	1095.2	1539.5
-12.5°	0.0	2.7	9.8	25.5	45.8	109.3	230.1	416.9	700.9	1063.8	1497.5
-15°	0.0	2.7	9.6	25.0	44.9	105.6	221.7	401.8	674.1	1025.7	1446.5
-17.5°	0.0	2.7	9.4	24.4	43.9	101.3	211.9	384.0	642.6	980.9	1386.5
-20°	0.0	2.6	9.2	23.7	42.7	96.3	200.6	363.6	606.5	929.6	1317.8



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 CATALOG NUMBER: EPH-LS16-1200L-40-80-4S-A

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	2.6	9.0	22.9	41.3	90.7	187.9	340.6	565.9	871.9	1240.6
-25°	0.0	2.5	8.7	22.0	39.8	84.5	173.8	315.1	520.8	807.9	1155.1
-27.5°	0.0	2.5	8.4	21.0	38.2	77.7	158.3	287.2	471.4	742.7	1075.9
-30°	0.0	2.4	8.1	20.0	36.4	70.3	141.5	256.9	429.6	682.0	990.8
-32.5°	0.0	2.4	7.8	18.9	34.5	62.3	123.4	233.0	392.1	616.7	899.3
-35°	0.0	2.3	7.5	17.7	32.4	53.7	110.4	210.3	352.0	547.1	801.8
-37.5°	0.0	2.2	7.1	16.4	30.2	46.8	99.5	186.2	309.4	473.1	711.2
-40°	0.0	2.1	6.7	15.0	27.9	44.0	87.9	160.7	264.5	414.8	624.2
-42.5°	0.0	2.1	6.3	13.6	25.7	40.9	75.8	134.0	228.5	361.5	532.9
-45°	0.0	2.0	5.8	12.1	23.7	37.7	63.0	111.5	196.4	305.8	442.4
-47.5°	0.0	1.9	5.4	10.5	21.6	34.4	49.8	95.9	162.9	248.3	377.8
-50°	0.0	1.8	4.9	9.6	19.5	30.9	44.2	79.8	128.2	209.2	310.9
-52.5°	0.0	1.7	4.4	8.8	17.2	27.3	39.9	63.1	104.2	168.8	244.4
-55°	0.0	1.6	3.9	8.0	14.9	24.3	35.5	47.2	84.5	127.1	198.1
-57.5°	0.0	1.5	3.3	7.2	12.4	21.2	30.9	41.9	64.3	100.0	150.6
-60°	0.0	1.4	2.8	6.4	10.0	18.2	26.3	36.4	46.5	76.6	109.3
-62.5°	0.0	1.3	2.6	5.6	8.9	15.0	22.5	30.8	40.1	52.8	82.8
-65°	0.0	1.2	2.4	4.7	7.8	11.7	18.6	25.4	33.5	42.0	55.9
-67.5°	0.0	1.1	2.1	3.9	6.6	9.4	14.6	20.8	26.9	34.5	42.0
-70°	0.0	1.0	1.9	3.0	5.4	7.9	10.6	16.1	21.5	26.9	33.5
-72.5°	0.0	0.8	1.7	2.5	4.2	6.4	8.5	11.3	16.1	20.8	25.4
-75°	0.0	0.7	1.4	2.2	3.0	4.9	6.7	8.5	10.6	14.6	18.6
-77.5°	0.0	0.6	1.2	1.8	2.4	3.3	4.9	6.4	7.9	9.4	11.7
-80°	0.0	0.5	1.0	1.5	1.9	2.4	3.0	4.2	5.4	6.6	7.8
-82.5°	0.0	0.4	0.7	1.1	1.5	1.8	2.2	2.5	3.0	3.9	4.7
-85°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
-87.5°	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
-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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 CATALOG NUMBER: EPH-LS16-1200L-40-80-4S-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°	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2
85°	2.6	2.8	3.3	3.9	4.4	4.9	5.4	5.8	6.3	6.7	7.1
82.5°	5.6	6.4	7.2	8.0	8.8	9.6	10.5	12.1	13.6	15.0	16.4
80°	8.9	10.0	12.4	14.9	17.2	19.5	21.6	23.7	25.7	27.9	30.2
77.5°	15.0	18.2	21.2	24.3	27.3	30.9	34.4	37.7	40.9	44.0	46.8
75°	22.5	26.3	30.9	35.5	39.9	44.2	49.8	63.0	75.8	87.9	99.5
72.5°	30.8	36.4	41.9	47.2	63.1	79.8	95.9	111.5	134.0	160.7	186.2
70°	40.1	46.5	64.3	84.5	104.2	128.2	162.9	196.4	228.5	264.5	309.4
67.5°	52.8	76.6	100.0	127.1	168.8	209.2	248.3	305.8	361.5	414.8	473.1
65°	82.8	109.3	150.6	198.1	244.4	310.9	377.8	442.4	532.9	624.2	711.2
62.5°	112.4	162.3	215.8	278.2	356.5	432.6	535.6	645.0	750.2	873.5	994.0
60°	162.3	221.7	296.5	384.0	479.0	606.5	730.2	871.9	1016.1	1155.1	1312.6
57.5°	215.8	296.5	393.2	507.4	649.4	794.0	962.0	1124.6	1306.3	1485.8	1662.6
55°	278.2	384.0	507.4	663.7	830.1	1016.6	1206.7	1415.8	1618.1	1835.8	2044.3
52.5°	356.5	479.0	649.4	830.1	1034.8	1250.5	1482.0	1717.8	1961.2	2197.6	2429.2
50°	432.6	606.5	794.0	1016.6	1250.5	1504.2	1768.0	2037.2	2302.8	2561.9	2801.4
47.5°	535.6	730.2	962.0	1206.7	1482.0	1768.0	2062.6	2355.8	2642.3	2902.6	3151.4
45°	645.0	871.9	1124.6	1415.8	1717.8	2037.2	2355.8	2669.2	2953.6	3222.0	3456.6
42.5°	750.2	1016.1	1306.3	1618.1	1961.2	2302.8	2642.3	2953.6	3244.9	3503.2	3765.3
40°	873.5	1155.1	1485.8	1835.8	2197.6	2561.9	2902.6	3222.0	3503.2	3791.2	4079.2
37.5°	994.0	1312.6	1662.6	2044.3	2429.2	2801.4	3151.4	3456.6	3765.3	4079.2	4510.1
35°	1108.4	1462.3	1845.7	2246.2	2650.3	3023.7	3364.1	3688.0	4026.5	4471.3	4917.2
32.5°	1228.9	1603.8	2018.9	2440.3	2847.7	3227.4	3564.8	3921.9	4355.8	4846.1	5281.6
30°	1349.7	1751.5	2183.4	2623.0	3032.6	3403.9	3767.4	4165.6	4696.3	5172.9	5795.2
27.5°	1462.3	1890.5	2340.2	2785.6	3201.5	3569.4	3961.7	4465.3	4994.1	5537.9	6369.8
25°	1566.2	2018.9	2485.3	2933.5	3343.6	3733.2	4164.1	4744.9	5264.3	6042.4	7679.8
22.5°	1667.0	2136.6	2618.3	3069.2	3474.2	3887.4	4403.4	4981.1	5594.3	6550.7	9100.7
20°	1763.2	2246.2	2734.1	3189.6	3592.7	4027.6	4621.3	5192.9	5992.2	7763.0	11291.1
17.5°	1848.9	2343.9	2834.4	3286.7	3706.4	4179.0	4813.4	5383.0	6350.3	8856.6	13687.9
15°	1923.8	2429.2	2922.2	3371.7	3807.5	4337.0	4967.7	5657.3	6990.8	10108.9	15830.3
12.5°	1987.6	2502.0	2997.0	3444.3	3893.9	4472.2	5100.0	5907.4	7758.4	11799.5	18183.8
10°	2040.1	2561.9	3058.7	3504.2	3965.2	4583.9	5209.3	6114.6	8395.0	13204.2	20143.6
7.5°	2081.0	2608.7	3106.9	3551.0	4021.1	4671.4	5295.1	6277.3	8895.6	14310.7	21690.3
5°	2110.4	2642.3	3141.5	3584.6	4061.2	4734.3	5356.8	6394.4	9256.3	15108.8	22807.5
2.5°	2128.1	2662.5	3162.4	3604.8	4085.3	4772.1	5394.0	6465.0	9473.9	15590.8	23483.0
0°	2134.0	2669.2	3169.3	3611.6	4093.4	4784.8	5406.4	6488.6	9546.7	15752.0	23709.0
-2.5°	2128.1	2662.5	3162.4	3604.8	4085.3	4772.1	5394.0	6465.0	9473.9	15590.8	23483.0
-5°	2110.4	2642.3	3141.5	3584.6	4061.2	4734.3	5356.8	6394.4	9256.3	15108.8	22807.5
-7.5°	2081.0	2608.7	3106.9	3551.0	4021.1	4671.4	5295.1	6277.3	8895.6	14310.7	21690.3
-10°	2040.1	2561.9	3058.7	3504.2	3965.2	4583.9	5209.3	6114.6	8395.0	13204.2	20143.6
-12.5°	1987.6	2502.0	2997.0	3444.3	3893.9	4472.2	5100.0	5907.4	7758.4	11799.5	18183.8
-15°	1923.8	2429.2	2922.2	3371.7	3807.5	4337.0	4967.7	5657.3	6990.8	10108.9	15830.3
-17.5°	1848.9	2343.9	2834.4	3286.7	3706.4	4179.0	4813.4	5383.0	6350.3	8856.6	13687.9
-20°	1763.2	2246.2	2734.1	3189.6	3592.7	4027.6	4621.3	5192.9	5992.2	7763.0	11291.1



REPORT NUMBER: P1306443 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-4S-A

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1667.0	2136.6	2618.3	3069.2	3474.2	3887.4	4403.4	4981.1	5594.3	6550.7	9100.7
-25°	1566.2	2018.9	2485.3	2933.5	3343.6	3733.2	4164.1	4744.9	5264.3	6042.4	7679.8
-27.5°	1462.3	1890.5	2340.2	2785.6	3201.5	3569.4	3961.7	4465.3	4994.1	5537.9	6369.8
-30°	1349.7	1751.5	2183.4	2623.0	3032.6	3403.9	3767.4	4165.6	4696.3	5172.9	5795.2
-32.5°	1228.9	1603.8	2018.9	2440.3	2847.7	3227.4	3564.8	3921.9	4355.8	4846.1	5281.6
-35°	1108.4	1462.3	1845.7	2246.2	2650.3	3023.7	3364.1	3688.0	4026.5	4471.3	4917.2
-37.5°	994.0	1312.6	1662.6	2044.3	2429.2	2801.4	3151.4	3456.6	3765.3	4079.2	4510.1
-40°	873.5	1155.1	1485.8	1835.8	2197.6	2561.9	2902.6	3222.0	3503.2	3791.2	4079.2
-42.5°	750.2	1016.1	1306.3	1618.1	1961.2	2302.8	2642.3	2953.6	3244.9	3503.2	3765.3
-45°	645.0	871.9	1124.6	1415.8	1717.8	2037.2	2355.8	2669.2	2953.6	3222.0	3456.6
-47.5°	535.6	730.2	962.0	1206.7	1482.0	1768.0	2062.6	2355.8	2642.3	2902.6	3151.4
-50°	432.6	606.5	794.0	1016.6	1250.5	1504.2	1768.0	2037.2	2302.8	2561.9	2801.4
-52.5°	356.5	479.0	649.4	830.1	1034.8	1250.5	1482.0	1717.8	1961.2	2197.6	2429.2
-55°	278.2	384.0	507.4	663.7	830.1	1016.6	1206.7	1415.8	1618.1	1835.8	2044.3
-57.5°	215.8	296.5	393.2	507.4	649.4	794.0	962.0	1124.6	1306.3	1485.8	1662.6
-60°	162.3	221.7	296.5	384.0	479.0	606.5	730.2	871.9	1016.1	1155.1	1312.6
-62.5°	112.4	162.3	215.8	278.2	356.5	432.6	535.6	645.0	750.2	873.5	994.0
-65°	82.8	109.3	150.6	198.1	244.4	310.9	377.8	442.4	532.9	624.2	711.2
-67.5°	52.8	76.6	100.0	127.1	168.8	209.2	248.3	305.8	361.5	414.8	473.1
-70°	40.1	46.5	64.3	84.5	104.2	128.2	162.9	196.4	228.5	264.5	309.4
-72.5°	30.8	36.4	41.9	47.2	63.1	79.8	95.9	111.5	134.0	160.7	186.2
-75°	22.5	26.3	30.9	35.5	39.9	44.2	49.8	63.0	75.8	87.9	99.5
-77.5°	15.0	18.2	21.2	24.3	27.3	30.9	34.4	37.7	40.9	44.0	46.8
-80°	8.9	10.0	12.4	14.9	17.2	19.5	21.6	23.7	25.7	27.9	30.2
-82.5°	5.6	6.4	7.2	8.0	8.8	9.6	10.5	12.1	13.6	15.0	16.4
-85°	2.6	2.8	3.3	3.9	4.4	4.9	5.4	5.8	6.3	6.7	7.1
-87.5°	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2
-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: P1306443 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-4S-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°	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8
85°	7.5	7.8	8.1	8.4	8.7	9.0	9.2	9.4	9.6	9.8	9.9
82.5°	17.7	18.9	20.0	21.0	22.0	22.9	23.7	24.4	25.0	25.5	25.9
80°	32.4	34.5	36.4	38.2	39.8	41.3	42.7	43.9	44.9	45.8	46.5
77.5°	53.7	62.3	70.3	77.7	84.5	90.7	96.3	101.3	105.6	109.3	112.3
75°	110.4	123.4	141.5	158.3	173.8	187.9	200.6	211.9	221.7	230.1	236.9
72.5°	210.3	233.0	256.9	287.2	315.1	340.6	363.6	384.0	401.8	416.9	429.3
70°	352.0	392.1	429.6	471.4	520.8	565.9	606.5	642.6	674.1	700.9	722.9
67.5°	547.1	616.7	682.0	742.7	807.9	871.9	929.6	980.9	1025.7	1063.8	1095.2
65°	801.8	899.3	990.8	1075.9	1155.1	1240.6	1317.8	1386.5	1446.5	1497.5	1539.5
62.5°	1108.4	1228.9	1349.7	1462.3	1566.2	1667.0	1763.2	1848.9	1923.8	1987.6	2040.1
60°	1462.3	1603.8	1751.5	1890.5	2018.9	2136.6	2246.2	2343.9	2429.2	2502.0	2561.9
57.5°	1845.7	2018.9	2183.4	2340.2	2485.3	2618.3	2734.1	2834.4	2922.2	2997.0	3058.7
55°	2246.2	2440.3	2623.0	2785.6	2933.5	3069.2	3189.6	3286.7	3371.7	3444.3	3504.2
52.5°	2650.3	2847.7	3032.6	3201.5	3343.6	3474.2	3592.7	3706.4	3807.5	3893.9	3965.2
50°	3023.7	3227.4	3403.9	3569.4	3733.2	3887.4	4027.6	4179.0	4337.0	4472.2	4583.9
47.5°	3364.1	3564.8	3767.4	3961.7	4164.1	4403.4	4621.3	4813.4	4967.7	5100.0	5209.3
45°	3688.0	3921.9	4165.6	4465.3	4744.9	4981.1	5192.9	5383.0	5657.3	5907.4	6114.6
42.5°	4026.5	4355.8	4696.3	4994.1	5264.3	5594.3	5992.2	6350.3	6990.8	7758.4	8395.0
40°	4471.3	4846.1	5172.9	5537.9	6042.4	6550.7	7763.0	8856.6	10108.9	11799.5	13204.2
37.5°	4917.2	5281.6	5795.2	6369.8	7679.8	9100.7	11291.1	13687.9	15830.3	18183.8	20143.6
35°	5318.2	5925.3	6716.9	8448.0	10630.4	13723.4	16807.2	20125.7	23077.4	25840.5	28204.2
32.5°	5925.3	6906.4	8837.0	11844.7	15382.6	19528.9	23462.2	27403.2	30945.0	34344.0	37472.3
30°	6716.9	8837.0	12253.1	16357.3	21194.9	25964.5	30647.3	35445.6	40105.6	44333.1	48322.4
27.5°	8448.0	11844.7	16357.3	21755.9	27249.7	32664.9	38770.4	44579.5	50480.3	55656.2	61308.1
25°	10630.4	15382.6	21194.9	27249.7	33480.2	40465.0	47657.1	54730.7	62749.8	70072.5	78807.5
22.5°	13723.4	19528.9	25964.5	32664.9	40465.0	48697.6	57266.0	67153.5	78628.5	91153.5	102605.7
20°	16807.2	23462.2	30647.3	38770.4	47657.1	57266.0	68647.0	83532.7	99153.5	114976.0	129429.0
17.5°	20125.7	27403.2	35445.6	44579.5	54730.7	67153.5	83532.7	102177.8	121389.3	142570.8	162251.6
15°	23077.4	30945.0	40105.6	50480.3	62749.8	78628.5	99153.5	121389.3	147078.4	173841.3	200873.4
12.5°	25840.5	34344.0	44333.1	55656.2	70072.5	91153.5	114976.0	142570.8	173841.3	207438.9	236891.8
10°	28204.2	37472.3	48322.4	61308.1	78807.5	102605.7	129429.0	162251.6	200873.4	236891.8	267117.1
7.5°	30073.9	39953.6	51497.3	65830.6	86611.2	112579.6	143851.9	181939.1	223096.3	260635.5	289270.4
5°	31426.8	41753.0	53806.2	69130.9	92331.2	119932.6	154567.3	196920.0	239827.2	276337.9	305015.3
2.5°	32245.8	42844.0	55208.8	71140.5	95825.5	124443.6	161179.3	206240.0	250361.4	285848.6	314324.8
0°	32520.0	43209.6	55679.2	71815.5	97001.1	125964.7	163415.8	209406.7	253965.1	288976.0	317546.9
-2.5°	32245.8	42844.0	55208.8	71140.5	95825.5	124443.6	161179.3	206240.0	250361.4	285848.6	314324.8
-5°	31426.8	41753.0	53806.2	69130.9	92331.2	119932.6	154567.3	196920.0	239827.2	276337.9	305015.3
-7.5°	30073.9	39953.6	51497.3	65830.6	86611.2	112579.6	143851.9	181939.1	223096.3	260635.5	289270.4
-10°	28204.2	37472.3	48322.4	61308.1	78807.5	102605.7	129429.0	162251.6	200873.4	236891.8	267117.1
-12.5°	25840.5	34344.0	44333.1	55656.2	70072.5	91153.5	114976.0	142570.8	173841.3	207438.9	236891.8
-15°	23077.4	30945.0	40105.6	50480.3	62749.8	78628.5	99153.5	121389.3	147078.4	173841.3	200873.4
-17.5°	20125.7	27403.2	35445.6	44579.5	54730.7	67153.5	83532.7	102177.8	121389.3	142570.8	162251.6
-20°	16807.2	23462.2	30647.3	38770.4	47657.1	57266.0	68647.0	83532.7	99153.5	114976.0	129429.0



REPORT NUMBER: P1306443 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-4S-A

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	13723.4	19528.9	25964.5	32664.9	40465.0	48697.6	57266.0	67153.5	78628.5	91153.5	102605.7
-25°	10630.4	15382.6	21194.9	27249.7	33480.2	40465.0	47657.1	54730.7	62749.8	70072.5	78807.5
-27.5°	8448.0	11844.7	16357.3	21755.9	27249.7	32664.9	38770.4	44579.5	50480.3	55656.2	61308.1
-30°	6716.9	8837.0	12253.1	16357.3	21194.9	25964.5	30647.3	35445.6	40105.6	44333.1	48322.4
-32.5°	5925.3	6906.4	8837.0	11844.7	15382.6	19528.9	23462.2	27403.2	30945.0	34344.0	37472.3
-35°	5318.2	5925.3	6716.9	8448.0	10630.4	13723.4	16807.2	20125.7	23077.4	25840.5	28204.2
-37.5°	4917.2	5281.6	5795.2	6369.8	7679.8	9100.7	11291.1	13687.9	15830.3	18183.8	20143.6
-40°	4471.3	4846.1	5172.9	5537.9	6042.4	6550.7	7763.0	8856.6	10108.9	11799.5	13204.2
-42.5°	4026.5	4355.8	4696.3	4994.1	5264.3	5594.3	5992.2	6350.3	6990.8	7758.4	8395.0
-45°	3688.0	3921.9	4165.6	4465.3	4744.9	4981.1	5192.9	5383.0	5657.3	5907.4	6114.6
-47.5°	3364.1	3564.8	3767.4	3961.7	4164.1	4403.4	4621.3	4813.4	4967.7	5100.0	5209.3
-50°	3023.7	3227.4	3403.9	3569.4	3733.2	3887.4	4027.6	4179.0	4337.0	4472.2	4583.9
-52.5°	2650.3	2847.7	3032.6	3201.5	3343.6	3474.2	3592.7	3706.4	3807.5	3893.9	3965.2
-55°	2246.2	2440.3	2623.0	2785.6	2933.5	3069.2	3189.6	3286.7	3371.7	3444.3	3504.2
-57.5°	1845.7	2018.9	2183.4	2340.2	2485.3	2618.3	2734.1	2834.4	2922.2	2997.0	3058.7
-60°	1462.3	1603.8	1751.5	1890.5	2018.9	2136.6	2246.2	2343.9	2429.2	2502.0	2561.9
-62.5°	1108.4	1228.9	1349.7	1462.3	1566.2	1667.0	1763.2	1848.9	1923.8	1987.6	2040.1
-65°	801.8	899.3	990.8	1075.9	1155.1	1240.6	1317.8	1386.5	1446.5	1497.5	1539.5
-67.5°	547.1	616.7	682.0	742.7	807.9	871.9	929.6	980.9	1025.7	1063.8	1095.2
-70°	352.0	392.1	429.6	471.4	520.8	565.9	606.5	642.6	674.1	700.9	722.9
-72.5°	210.3	233.0	256.9	287.2	315.1	340.6	363.6	384.0	401.8	416.9	429.3
-75°	110.4	123.4	141.5	158.3	173.8	187.9	200.6	211.9	221.7	230.1	236.9
-77.5°	53.7	62.3	70.3	77.7	84.5	90.7	96.3	101.3	105.6	109.3	112.3
-80°	32.4	34.5	36.4	38.2	39.8	41.3	42.7	43.9	44.9	45.8	46.5
-82.5°	17.7	18.9	20.0	21.0	22.0	22.9	23.7	24.4	25.0	25.5	25.9
-85°	7.5	7.8	8.1	8.4	8.7	9.0	9.2	9.4	9.6	9.8	9.9
-87.5°	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.7	2.8
-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: P1306443 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-4S-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°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7
85°	10.0	10.0	10.1	10.1	10.1	10.0	10.0	9.9	9.8	9.6	9.4
82.5°	26.3	26.5	26.7	26.7	26.7	26.5	26.3	25.9	25.5	25.0	24.4
80°	47.1	47.5	47.7	47.8	47.7	47.5	47.1	46.5	45.8	44.9	43.9
77.5°	114.7	116.3	117.4	117.7	117.4	116.3	114.7	112.3	109.3	105.6	101.3
75°	242.3	246.1	248.4	249.2	248.4	246.1	242.3	236.9	230.1	221.7	211.9
72.5°	439.0	445.9	450.1	451.5	450.1	445.9	439.0	429.3	416.9	401.8	384.0
70°	740.0	752.3	759.7	762.2	759.7	752.3	740.0	722.9	700.9	674.1	642.6
67.5°	1119.6	1137.2	1147.7	1151.2	1147.7	1137.2	1119.6	1095.2	1063.8	1025.7	980.9
65°	1572.3	1595.8	1609.9	1614.6	1609.9	1595.8	1572.3	1539.5	1497.5	1446.5	1386.5
62.5°	2081.0	2110.4	2128.1	2134.0	2128.1	2110.4	2081.0	2040.1	1987.6	1923.8	1848.9
60°	2608.7	2642.3	2662.5	2669.2	2662.5	2642.3	2608.7	2561.9	2502.0	2429.2	2343.9
57.5°	3106.9	3141.5	3162.4	3169.3	3162.4	3141.5	3106.9	3058.7	2997.0	2922.2	2834.4
55°	3551.0	3584.6	3604.8	3611.6	3604.8	3584.6	3551.0	3504.2	3444.3	3371.7	3286.7
52.5°	4021.1	4061.2	4085.3	4093.4	4085.3	4061.2	4021.1	3965.2	3893.9	3807.5	3706.4
50°	4671.4	4734.3	4772.1	4784.8	4772.1	4734.3	4671.4	4583.9	4472.2	4337.0	4179.0
47.5°	5295.1	5356.8	5394.0	5406.4	5394.0	5356.8	5295.1	5209.3	5100.0	4967.7	4813.4
45°	6277.3	6394.4	6465.0	6488.6	6465.0	6394.4	6277.3	6114.6	5907.4	5657.3	5383.0
42.5°	8895.6	9256.3	9473.9	9546.7	9473.9	9256.3	8895.6	8395.0	7758.4	6990.8	6350.3
40°	14310.7	15108.8	15590.8	15752.0	15590.8	15108.8	14310.7	13204.2	11799.5	10108.9	8856.6
37.5°	21690.3	22807.5	23483.0	23709.0	23483.0	22807.5	21690.3	20143.6	18183.8	15830.3	13687.9
35°	30073.9	31426.8	32245.8	32520.0	32245.8	31426.8	30073.9	28204.2	25840.5	23077.4	20125.7
32.5°	39953.6	41753.0	42844.0	43209.6	42844.0	41753.0	39953.6	37472.3	34344.0	30945.0	27403.2
30°	51497.3	53806.2	55208.8	55679.2	55208.8	53806.2	51497.3	48322.4	44333.1	40105.6	35445.6
27.5°	65830.6	69130.9	71140.5	71815.5	71140.5	69130.9	65830.6	61308.1	55656.2	50480.3	44579.5
25°	86611.2	92331.2	95825.5	97001.1	95825.5	92331.2	86611.2	78807.5	70072.5	62749.8	54730.7
22.5°	112579.6	119932.6	124443.6	125964.7	124443.6	119932.6	112579.6	102605.7	91153.5	78628.5	67153.5
20°	143851.9	154567.3	161179.3	163415.8	161179.3	154567.3	143851.9	129429.0	114976.0	99153.5	83532.7
17.5°	181939.1	196920.0	206240.0	209406.7	206240.0	196920.0	181939.1	162251.6	142570.8	121389.3	102177.8
15°	223096.3	239827.2	250361.4	253965.1	250361.4	239827.2	223096.3	200873.4	173841.3	147078.4	121389.3
12.5°	260635.5	276337.9	285848.6	288976.0	285848.6	276337.9	260635.5	236891.8	207438.9	173841.3	142570.8
10°	289270.4	305015.3	314324.8	317546.9	314324.8	305015.3	289270.4	267117.1	236891.8	200873.4	162251.6
7.5°	311292.4	327742.5	338175.0	341598.4	338175.0	327742.5	311292.4	289270.4	260635.5	223096.3	181939.1
5°	327742.5	345276.3	355790.4	359381.0	355790.4	345276.3	327742.5	305015.3	276337.9	239827.2	196920.0
2.5°	338175.0	355790.4	365986.2	369316.6	365986.2	355790.4	338175.0	314324.8	285848.6	250361.4	206240.0
0°	341598.4	359381.0	369316.6	373090.9	369316.6	359381.0	341598.4	317546.9	288976.0	253965.1	209406.7
-2.5°	338175.0	355790.4	365986.2	369316.6	365986.2	355790.4	338175.0	314324.8	285848.6	250361.4	206240.0
-5°	327742.5	345276.3	355790.4	359381.0	355790.4	345276.3	327742.5	305015.3	276337.9	239827.2	196920.0
-7.5°	311292.4	327742.5	338175.0	341598.4	338175.0	327742.5	311292.4	289270.4	260635.5	223096.3	181939.1
-10°	289270.4	305015.3	314324.8	317546.9	314324.8	305015.3	289270.4	267117.1	236891.8	200873.4	162251.6
-12.5°	260635.5	276337.9	285848.6	288976.0	285848.6	276337.9	260635.5	236891.8	207438.9	173841.3	142570.8
-15°	223096.3	239827.2	250361.4	253965.1	250361.4	239827.2	223096.3	200873.4	173841.3	147078.4	121389.3
-17.5°	181939.1	196920.0	206240.0	209406.7	206240.0	196920.0	181939.1	162251.6	142570.8	121389.3	102177.8
-20°	143851.9	154567.3	161179.3	163415.8	161179.3	154567.3	143851.9	129429.0	114976.0	99153.5	83532.7



REPORT NUMBER: P1306443 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-4S-A

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	112579.6	119932.6	124443.6	125964.7	124443.6	119932.6	112579.6	102605.7	91153.5	78628.5	67153.5
-25°	86611.2	92331.2	95825.5	97001.1	95825.5	92331.2	86611.2	78807.5	70072.5	62749.8	54730.7
-27.5°	65830.6	69130.9	71140.5	71815.5	71140.5	69130.9	65830.6	61308.1	55656.2	50480.3	44579.5
-30°	51497.3	53806.2	55208.8	55679.2	55208.8	53806.2	51497.3	48322.4	44333.1	40105.6	35445.6
-32.5°	39953.6	41753.0	42844.0	43209.6	42844.0	41753.0	39953.6	37472.3	34344.0	30945.0	27403.2
-35°	30073.9	31426.8	32245.8	32520.0	32245.8	31426.8	30073.9	28204.2	25840.5	23077.4	20125.7
-37.5°	21690.3	22807.5	23483.0	23709.0	23483.0	22807.5	21690.3	20143.6	18183.8	15830.3	13687.9
-40°	14310.7	15108.8	15590.8	15752.0	15590.8	15108.8	14310.7	13204.2	11799.5	10108.9	8856.6
-42.5°	8895.6	9256.3	9473.9	9546.7	9473.9	9256.3	8895.6	8395.0	7758.4	6990.8	6350.3
-45°	6277.3	6394.4	6465.0	6488.6	6465.0	6394.4	6277.3	6114.6	5907.4	5657.3	5383.0
-47.5°	5295.1	5356.8	5394.0	5406.4	5394.0	5356.8	5295.1	5209.3	5100.0	4967.7	4813.4
-50°	4671.4	4734.3	4772.1	4784.8	4772.1	4734.3	4671.4	4583.9	4472.2	4337.0	4179.0
-52.5°	4021.1	4061.2	4085.3	4093.4	4085.3	4061.2	4021.1	3965.2	3893.9	3807.5	3706.4
-55°	3551.0	3584.6	3604.8	3611.6	3604.8	3584.6	3551.0	3504.2	3444.3	3371.7	3286.7
-57.5°	3106.9	3141.5	3162.4	3169.3	3162.4	3141.5	3106.9	3058.7	2997.0	2922.2	2834.4
-60°	2608.7	2642.3	2662.5	2669.2	2662.5	2642.3	2608.7	2561.9	2502.0	2429.2	2343.9
-62.5°	2081.0	2110.4	2128.1	2134.0	2128.1	2110.4	2081.0	2040.1	1987.6	1923.8	1848.9
-65°	1572.3	1595.8	1609.9	1614.6	1609.9	1595.8	1572.3	1539.5	1497.5	1446.5	1386.5
-67.5°	1119.6	1137.2	1147.7	1151.2	1147.7	1137.2	1119.6	1095.2	1063.8	1025.7	980.9
-70°	740.0	752.3	759.7	762.2	759.7	752.3	740.0	722.9	700.9	674.1	642.6
-72.5°	439.0	445.9	450.1	451.5	450.1	445.9	439.0	429.3	416.9	401.8	384.0
-75°	242.3	246.1	248.4	249.2	248.4	246.1	242.3	236.9	230.1	221.7	211.9
-77.5°	114.7	116.3	117.4	117.7	117.4	116.3	114.7	112.3	109.3	105.6	101.3
-80°	47.1	47.5	47.7	47.8	47.7	47.5	47.1	46.5	45.8	44.9	43.9
-82.5°	26.3	26.5	26.7	26.7	26.7	26.5	26.3	25.9	25.5	25.0	24.4
-85°	10.0	10.0	10.1	10.1	10.1	10.0	10.0	9.9	9.8	9.6	9.4
-87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.7
-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: P1306443 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-4S-A

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°	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.2	2.1	2.1	2.0
85°	9.2	9.0	8.7	8.4	8.1	7.8	7.5	7.1	6.7	6.3	5.8
82.5°	23.7	22.9	22.0	21.0	20.0	18.9	17.7	16.4	15.0	13.6	12.1
80°	42.7	41.3	39.8	38.2	36.4	34.5	32.4	30.2	27.9	25.7	23.7
77.5°	96.3	90.7	84.5	77.7	70.3	62.3	53.7	46.8	44.0	40.9	37.7
75°	200.6	187.9	173.8	158.3	141.5	123.4	110.4	99.5	87.9	75.8	63.0
72.5°	363.6	340.6	315.1	287.2	256.9	233.0	210.3	186.2	160.7	134.0	111.5
70°	606.5	565.9	520.8	471.4	429.6	392.1	352.0	309.4	264.5	228.5	196.4
67.5°	929.6	871.9	807.9	742.7	682.0	616.7	547.1	473.1	414.8	361.5	305.8
65°	1317.8	1240.6	1155.1	1075.9	990.8	899.3	801.8	711.2	624.2	532.9	442.4
62.5°	1763.2	1667.0	1566.2	1462.3	1349.7	1228.9	1108.4	994.0	873.5	750.2	645.0
60°	2246.2	2136.6	2018.9	1890.5	1751.5	1603.8	1462.3	1312.6	1155.1	1016.1	871.9
57.5°	2734.1	2618.3	2485.3	2340.2	2183.4	2018.9	1845.7	1662.6	1485.8	1306.3	1124.6
55°	3189.6	3069.2	2933.5	2785.6	2623.0	2440.3	2246.2	2044.3	1835.8	1618.1	1415.8
52.5°	3592.7	3474.2	3343.6	3201.5	3032.6	2847.7	2650.3	2429.2	2197.6	1961.2	1717.8
50°	4027.6	3887.4	3733.2	3569.4	3403.9	3227.4	3023.7	2801.4	2561.9	2302.8	2037.2
47.5°	4621.3	4403.4	4164.1	3961.7	3767.4	3564.8	3364.1	3151.4	2902.6	2642.3	2355.8
45°	5192.9	4981.1	4744.9	4465.3	4165.6	3921.9	3688.0	3456.6	3222.0	2953.6	2669.2
42.5°	5992.2	5594.3	5264.3	4994.1	4696.3	4355.8	4026.5	3765.3	3503.2	3244.9	2953.6
40°	7763.0	6550.7	6042.4	5537.9	5172.9	4846.1	4471.3	4079.2	3791.2	3503.2	3222.0
37.5°	11291.1	9100.7	7679.8	6369.8	5795.2	5281.6	4917.2	4510.1	4079.2	3765.3	3456.6
35°	16807.2	13723.4	10630.4	8448.0	6716.9	5925.3	5318.2	4917.2	4471.3	4026.5	3688.0
32.5°	23462.2	19528.9	15382.6	11844.7	8837.0	6906.4	5925.3	5281.6	4846.1	4355.8	3921.9
30°	30647.3	25964.5	21194.9	16357.3	12253.1	8837.0	6716.9	5795.2	5172.9	4696.3	4165.6
27.5°	38770.4	32664.9	27249.7	21755.9	16357.3	11844.7	8448.0	6369.8	5537.9	4994.1	4465.3
25°	47657.1	40465.0	33480.2	27249.7	21194.9	15382.6	10630.4	7679.8	6042.4	5264.3	4744.9
22.5°	57266.0	48697.6	40465.0	32664.9	25964.5	19528.9	13723.4	9100.7	6550.7	5594.3	4981.1
20°	68647.0	57266.0	47657.1	38770.4	30647.3	23462.2	16807.2	11291.1	7763.0	5992.2	5192.9
17.5°	83532.7	67153.5	54730.7	44579.5	35445.6	27403.2	20125.7	13687.9	8856.6	6350.3	5383.0
15°	99153.5	78628.5	62749.8	50480.3	40105.6	30945.0	23077.4	15830.3	10108.9	6990.8	5657.3
12.5°	114976.0	91153.5	70072.5	55656.2	44333.1	34344.0	25840.5	18183.8	11799.5	7758.4	5907.4
10°	129429.0	102605.7	78807.5	61308.1	48322.4	37472.3	28204.2	20143.6	13204.2	8395.0	6114.6
7.5°	143851.9	112579.6	86611.2	65830.6	51497.3	39953.6	30073.9	21690.3	14310.7	8895.6	6277.3
5°	154567.3	119932.6	92331.2	69130.9	53806.2	41753.0	31426.8	22807.5	15108.8	9256.3	6394.4
2.5°	161179.3	124443.6	95825.5	71140.5	55208.8	42844.0	32245.8	23483.0	15590.8	9473.9	6465.0
0°	163415.8	125964.7	97001.1	71815.5	55679.2	43209.6	32520.0	23709.0	15752.0	9546.7	6488.6
-2.5°	161179.3	124443.6	95825.5	71140.5	55208.8	42844.0	32245.8	23483.0	15590.8	9473.9	6465.0
-5°	154567.3	119932.6	92331.2	69130.9	53806.2	41753.0	31426.8	22807.5	15108.8	9256.3	6394.4
-7.5°	143851.9	112579.6	86611.2	65830.6	51497.3	39953.6	30073.9	21690.3	14310.7	8895.6	6277.3
-10°	129429.0	102605.7	78807.5	61308.1	48322.4	37472.3	28204.2	20143.6	13204.2	8395.0	6114.6
-12.5°	114976.0	91153.5	70072.5	55656.2	44333.1	34344.0	25840.5	18183.8	11799.5	7758.4	5907.4
-15°	99153.5	78628.5	62749.8	50480.3	40105.6	30945.0	23077.4	15830.3	10108.9	6990.8	5657.3
-17.5°	83532.7	67153.5	54730.7	44579.5	35445.6	27403.2	20125.7	13687.9	8856.6	6350.3	5383.0
-20°	68647.0	57266.0	47657.1	38770.4	30647.3	23462.2	16807.2	11291.1	7763.0	5992.2	5192.9



REPORT NUMBER: P1306443 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-4S-A

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	57266.0	48697.6	40465.0	32664.9	25964.5	19528.9	13723.4	9100.7	6550.7	5594.3	4981.1
-25°	47657.1	40465.0	33480.2	27249.7	21194.9	15382.6	10630.4	7679.8	6042.4	5264.3	4744.9
-27.5°	38770.4	32664.9	27249.7	21755.9	16357.3	11844.7	8448.0	6369.8	5537.9	4994.1	4465.3
-30°	30647.3	25964.5	21194.9	16357.3	12253.1	8837.0	6716.9	5795.2	5172.9	4696.3	4165.6
-32.5°	23462.2	19528.9	15382.6	11844.7	8837.0	6906.4	5925.3	5281.6	4846.1	4355.8	3921.9
-35°	16807.2	13723.4	10630.4	8448.0	6716.9	5925.3	5318.2	4917.2	4471.3	4026.5	3688.0
-37.5°	11291.1	9100.7	7679.8	6369.8	5795.2	5281.6	4917.2	4510.1	4079.2	3765.3	3456.6
-40°	7763.0	6550.7	6042.4	5537.9	5172.9	4846.1	4471.3	4079.2	3791.2	3503.2	3222.0
-42.5°	5992.2	5594.3	5264.3	4994.1	4696.3	4355.8	4026.5	3765.3	3503.2	3244.9	2953.6
-45°	5192.9	4981.1	4744.9	4465.3	4165.6	3921.9	3688.0	3456.6	3222.0	2953.6	2669.2
-47.5°	4621.3	4403.4	4164.1	3961.7	3767.4	3564.8	3364.1	3151.4	2902.6	2642.3	2355.8
-50°	4027.6	3887.4	3733.2	3569.4	3403.9	3227.4	3023.7	2801.4	2561.9	2302.8	2037.2
-52.5°	3592.7	3474.2	3343.6	3201.5	3032.6	2847.7	2650.3	2429.2	2197.6	1961.2	1717.8
-55°	3189.6	3069.2	2933.5	2785.6	2623.0	2440.3	2246.2	2044.3	1835.8	1618.1	1415.8
-57.5°	2734.1	2618.3	2485.3	2340.2	2183.4	2018.9	1845.7	1662.6	1485.8	1306.3	1124.6
-60°	2246.2	2136.6	2018.9	1890.5	1751.5	1603.8	1462.3	1312.6	1155.1	1016.1	871.9
-62.5°	1763.2	1667.0	1566.2	1462.3	1349.7	1228.9	1108.4	994.0	873.5	750.2	645.0
-65°	1317.8	1240.6	1155.1	1075.9	990.8	899.3	801.8	711.2	624.2	532.9	442.4
-67.5°	929.6	871.9	807.9	742.7	682.0	616.7	547.1	473.1	414.8	361.5	305.8
-70°	606.5	565.9	520.8	471.4	429.6	392.1	352.0	309.4	264.5	228.5	196.4
-72.5°	363.6	340.6	315.1	287.2	256.9	233.0	210.3	186.2	160.7	134.0	111.5
-75°	200.6	187.9	173.8	158.3	141.5	123.4	110.4	99.5	87.9	75.8	63.0
-77.5°	96.3	90.7	84.5	77.7	70.3	62.3	53.7	46.8	44.0	40.9	37.7
-80°	42.7	41.3	39.8	38.2	36.4	34.5	32.4	30.2	27.9	25.7	23.7
-82.5°	23.7	22.9	22.0	21.0	20.0	18.9	17.7	16.4	15.0	13.6	12.1
-85°	9.2	9.0	8.7	8.4	8.1	7.8	7.5	7.1	6.7	6.3	5.8
-87.5°	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.2	2.1	2.1	2.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1306443 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-40-80-4S-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°	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.8
85°	5.4	4.9	4.4	3.9	3.3	2.8	2.6	2.4	2.1	1.9	1.7
82.5°	10.5	9.6	8.8	8.0	7.2	6.4	5.6	4.7	3.9	3.0	2.5
80°	21.6	19.5	17.2	14.9	12.4	10.0	8.9	7.8	6.6	5.4	4.2
77.5°	34.4	30.9	27.3	24.3	21.2	18.2	15.0	11.7	9.4	7.9	6.4
75°	49.8	44.2	39.9	35.5	30.9	26.3	22.5	18.6	14.6	10.6	8.5
72.5°	95.9	79.8	63.1	47.2	41.9	36.4	30.8	25.4	20.8	16.1	11.3
70°	162.9	128.2	104.2	84.5	64.3	46.5	40.1	33.5	26.9	21.5	16.1
67.5°	248.3	209.2	168.8	127.1	100.0	76.6	52.8	42.0	34.5	26.9	20.8
65°	377.8	310.9	244.4	198.1	150.6	109.3	82.8	55.9	42.0	33.5	25.4
62.5°	535.6	432.6	356.5	278.2	215.8	162.3	112.4	82.8	52.8	40.1	30.8
60°	730.2	606.5	479.0	384.0	296.5	221.7	162.3	109.3	76.6	46.5	36.4
57.5°	962.0	794.0	649.4	507.4	393.2	296.5	215.8	150.6	100.0	64.3	41.9
55°	1206.7	1016.6	830.1	663.7	507.4	384.0	278.2	198.1	127.1	84.5	47.2
52.5°	1482.0	1250.5	1034.8	830.1	649.4	479.0	356.5	244.4	168.8	104.2	63.1
50°	1768.0	1504.2	1250.5	1016.6	794.0	606.5	432.6	310.9	209.2	128.2	79.8
47.5°	2062.6	1768.0	1482.0	1206.7	962.0	730.2	535.6	377.8	248.3	162.9	95.9
45°	2355.8	2037.2	1717.8	1415.8	1124.6	871.9	645.0	442.4	305.8	196.4	111.5
42.5°	2642.3	2302.8	1961.2	1618.1	1306.3	1016.1	750.2	532.9	361.5	228.5	134.0
40°	2902.6	2561.9	2197.6	1835.8	1485.8	1155.1	873.5	624.2	414.8	264.5	160.7
37.5°	3151.4	2801.4	2429.2	2044.3	1662.6	1312.6	994.0	711.2	473.1	309.4	186.2
35°	3364.1	3023.7	2650.3	2246.2	1845.7	1462.3	1108.4	801.8	547.1	352.0	210.3
32.5°	3564.8	3227.4	2847.7	2440.3	2018.9	1603.8	1228.9	899.3	616.7	392.1	233.0
30°	3767.4	3403.9	3032.6	2623.0	2183.4	1751.5	1349.7	990.8	682.0	429.6	256.9
27.5°	3961.7	3569.4	3201.5	2785.6	2340.2	1890.5	1462.3	1075.9	742.7	471.4	287.2
25°	4164.1	3733.2	3343.6	2933.5	2485.3	2018.9	1566.2	1155.1	807.9	520.8	315.1
22.5°	4403.4	3887.4	3474.2	3069.2	2618.3	2136.6	1667.0	1240.6	871.9	565.9	340.6
20°	4621.3	4027.6	3592.7	3189.6	2734.1	2246.2	1763.2	1317.8	929.6	606.5	363.6
17.5°	4813.4	4179.0	3706.4	3286.7	2834.4	2343.9	1848.9	1386.5	980.9	642.6	384.0
15°	4967.7	4337.0	3807.5	3371.7	2922.2	2429.2	1923.8	1446.5	1025.7	674.1	401.8
12.5°	5100.0	4472.2	3893.9	3444.3	2997.0	2502.0	1987.6	1497.5	1063.8	700.9	416.9
10°	5209.3	4583.9	3965.2	3504.2	3058.7	2561.9	2040.1	1539.5	1095.2	722.9	429.3
7.5°	5295.1	4671.4	4021.1	3551.0	3106.9	2608.7	2081.0	1572.3	1119.6	740.0	439.0
5°	5356.8	4734.3	4061.2	3584.6	3141.5	2642.3	2110.4	1595.8	1137.2	752.3	445.9
2.5°	5394.0	4772.1	4085.3	3604.8	3162.4	2662.5	2128.1	1609.9	1147.7	759.7	450.1
0°	5406.4	4784.8	4093.4	3611.6	3169.3	2669.2	2134.0	1614.6	1151.2	762.2	451.5
-2.5°	5394.0	4772.1	4085.3	3604.8	3162.4	2662.5	2128.1	1609.9	1147.7	759.7	450.1
-5°	5356.8	4734.3	4061.2	3584.6	3141.5	2642.3	2110.4	1595.8	1137.2	752.3	445.9
-7.5°	5295.1	4671.4	4021.1	3551.0	3106.9	2608.7	2081.0	1572.3	1119.6	740.0	439.0
-10°	5209.3	4583.9	3965.2	3504.2	3058.7	2561.9	2040.1	1539.5	1095.2	722.9	429.3
-12.5°	5100.0	4472.2	3893.9	3444.3	2997.0	2502.0	1987.6	1497.5	1063.8	700.9	416.9
-15°	4967.7	4337.0	3807.5	3371.7	2922.2	2429.2	1923.8	1446.5	1025.7	674.1	401.8
-17.5°	4813.4	4179.0	3706.4	3286.7	2834.4	2343.9	1848.9	1386.5	980.9	642.6	384.0
-20°	4621.3	4027.6	3592.7	3189.6	2734.1	2246.2	1763.2	1317.8	929.6	606.5	363.6



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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°	4403.4	3887.4	3474.2	3069.2	2618.3	2136.6	1667.0	1240.6	871.9	565.9	340.6
-25°	4164.1	3733.2	3343.6	2933.5	2485.3	2018.9	1566.2	1155.1	807.9	520.8	315.1
-27.5°	3961.7	3569.4	3201.5	2785.6	2340.2	1890.5	1462.3	1075.9	742.7	471.4	287.2
-30°	3767.4	3403.9	3032.6	2623.0	2183.4	1751.5	1349.7	990.8	682.0	429.6	256.9
-32.5°	3564.8	3227.4	2847.7	2440.3	2018.9	1603.8	1228.9	899.3	616.7	392.1	233.0
-35°	3364.1	3023.7	2650.3	2246.2	1845.7	1462.3	1108.4	801.8	547.1	352.0	210.3
-37.5°	3151.4	2801.4	2429.2	2044.3	1662.6	1312.6	994.0	711.2	473.1	309.4	186.2
-40°	2902.6	2561.9	2197.6	1835.8	1485.8	1155.1	873.5	624.2	414.8	264.5	160.7
-42.5°	2642.3	2302.8	1961.2	1618.1	1306.3	1016.1	750.2	532.9	361.5	228.5	134.0
-45°	2355.8	2037.2	1717.8	1415.8	1124.6	871.9	645.0	442.4	305.8	196.4	111.5
-47.5°	2062.6	1768.0	1482.0	1206.7	962.0	730.2	535.6	377.8	248.3	162.9	95.9
-50°	1768.0	1504.2	1250.5	1016.6	794.0	606.5	432.6	310.9	209.2	128.2	79.8
-52.5°	1482.0	1250.5	1034.8	830.1	649.4	479.0	356.5	244.4	168.8	104.2	63.1
-55°	1206.7	1016.6	830.1	663.7	507.4	384.0	278.2	198.1	127.1	84.5	47.2
-57.5°	962.0	794.0	649.4	507.4	393.2	296.5	215.8	150.6	100.0	64.3	41.9
-60°	730.2	606.5	479.0	384.0	296.5	221.7	162.3	109.3	76.6	46.5	36.4
-62.5°	535.6	432.6	356.5	278.2	215.8	162.3	112.4	82.8	52.8	40.1	30.8
-65°	377.8	310.9	244.4	198.1	150.6	109.3	82.8	55.9	42.0	33.5	25.4
-67.5°	248.3	209.2	168.8	127.1	100.0	76.6	52.8	42.0	34.5	26.9	20.8
-70°	162.9	128.2	104.2	84.5	64.3	46.5	40.1	33.5	26.9	21.5	16.1
-72.5°	95.9	79.8	63.1	47.2	41.9	36.4	30.8	25.4	20.8	16.1	11.3
-75°	49.8	44.2	39.9	35.5	30.9	26.3	22.5	18.6	14.6	10.6	8.5
-77.5°	34.4	30.9	27.3	24.3	21.2	18.2	15.0	11.7	9.4	7.9	6.4
-80°	21.6	19.5	17.2	14.9	12.4	10.0	8.9	7.8	6.6	5.4	4.2
-82.5°	10.5	9.6	8.8	8.0	7.2	6.4	5.6	4.7	3.9	3.0	2.5
-85°	5.4	4.9	4.4	3.9	3.3	2.8	2.6	2.4	2.1	1.9	1.7
-87.5°	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.8
-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°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
85°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
82.5°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
80°	3.0	2.4	1.9	1.5	1.0	0.5	0.0
77.5°	4.9	3.3	2.4	1.8	1.2	0.6	0.0
75°	6.7	4.9	3.0	2.2	1.4	0.7	0.0
72.5°	8.5	6.4	4.2	2.5	1.7	0.8	0.0
70°	10.6	7.9	5.4	3.0	1.9	1.0	0.0
67.5°	14.6	9.4	6.6	3.9	2.1	1.1	0.0
65°	18.6	11.7	7.8	4.7	2.4	1.2	0.0
62.5°	22.5	15.0	8.9	5.6	2.6	1.3	0.0
60°	26.3	18.2	10.0	6.4	2.8	1.4	0.0
57.5°	30.9	21.2	12.4	7.2	3.3	1.5	0.0
55°	35.5	24.3	14.9	8.0	3.9	1.6	0.0
52.5°	39.9	27.3	17.2	8.8	4.4	1.7	0.0
50°	44.2	30.9	19.5	9.6	4.9	1.8	0.0
47.5°	49.8	34.4	21.6	10.5	5.4	1.9	0.0
45°	63.0	37.7	23.7	12.1	5.8	2.0	0.0
42.5°	75.8	40.9	25.7	13.6	6.3	2.1	0.0
40°	87.9	44.0	27.9	15.0	6.7	2.1	0.0
37.5°	99.5	46.8	30.2	16.4	7.1	2.2	0.0
35°	110.4	53.7	32.4	17.7	7.5	2.3	0.0
32.5°	123.4	62.3	34.5	18.9	7.8	2.4	0.0
30°	141.5	70.3	36.4	20.0	8.1	2.4	0.0
27.5°	158.3	77.7	38.2	21.0	8.4	2.5	0.0
25°	173.8	84.5	39.8	22.0	8.7	2.5	0.0
22.5°	187.9	90.7	41.3	22.9	9.0	2.6	0.0
20°	200.6	96.3	42.7	23.7	9.2	2.6	0.0
17.5°	211.9	101.3	43.9	24.4	9.4	2.7	0.0
15°	221.7	105.6	44.9	25.0	9.6	2.7	0.0
12.5°	230.1	109.3	45.8	25.5	9.8	2.7	0.0
10°	236.9	112.3	46.5	25.9	9.9	2.8	0.0
7.5°	242.3	114.7	47.1	26.3	10.0	2.8	0.0
5°	246.1	116.3	47.5	26.5	10.0	2.8	0.0
2.5°	248.4	117.4	47.7	26.7	10.1	2.8	0.0
0°	249.2	117.7	47.8	26.7	10.1	2.8	0.0
-2.5°	248.4	117.4	47.7	26.7	10.1	2.8	0.0
-5°	246.1	116.3	47.5	26.5	10.0	2.8	0.0
-7.5°	242.3	114.7	47.1	26.3	10.0	2.8	0.0
-10°	236.9	112.3	46.5	25.9	9.9	2.8	0.0
-12.5°	230.1	109.3	45.8	25.5	9.8	2.7	0.0
-15°	221.7	105.6	44.9	25.0	9.6	2.7	0.0
-17.5°	211.9	101.3	43.9	24.4	9.4	2.7	0.0
-20°	200.6	96.3	42.7	23.7	9.2	2.6	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	187.9	90.7	41.3	22.9	9.0	2.6	0.0
-25°	173.8	84.5	39.8	22.0	8.7	2.5	0.0
-27.5°	158.3	77.7	38.2	21.0	8.4	2.5	0.0
-30°	141.5	70.3	36.4	20.0	8.1	2.4	0.0
-32.5°	123.4	62.3	34.5	18.9	7.8	2.4	0.0
-35°	110.4	53.7	32.4	17.7	7.5	2.3	0.0
-37.5°	99.5	46.8	30.2	16.4	7.1	2.2	0.0
-40°	87.9	44.0	27.9	15.0	6.7	2.1	0.0
-42.5°	75.8	40.9	25.7	13.6	6.3	2.1	0.0
-45°	63.0	37.7	23.7	12.1	5.8	2.0	0.0
-47.5°	49.8	34.4	21.6	10.5	5.4	1.9	0.0
-50°	44.2	30.9	19.5	9.6	4.9	1.8	0.0
-52.5°	39.9	27.3	17.2	8.8	4.4	1.7	0.0
-55°	35.5	24.3	14.9	8.0	3.9	1.6	0.0
-57.5°	30.9	21.2	12.4	7.2	3.3	1.5	0.0
-60°	26.3	18.2	10.0	6.4	2.8	1.4	0.0
-62.5°	22.5	15.0	8.9	5.6	2.6	1.3	0.0
-65°	18.6	11.7	7.8	4.7	2.4	1.2	0.0
-67.5°	14.6	9.4	6.6	3.9	2.1	1.1	0.0
-70°	10.6	7.9	5.4	3.0	1.9	1.0	0.0
-72.5°	8.5	6.4	4.2	2.5	1.7	0.8	0.0
-75°	6.7	4.9	3.0	2.2	1.4	0.7	0.0
-77.5°	4.9	3.3	2.4	1.8	1.2	0.6	0.0
-80°	3.0	2.4	1.9	1.5	1.0	0.5	0.0
-82.5°	2.2	1.8	1.5	1.1	0.7	0.4	0.0
-85°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
-87.5°	0.7	0.6	0.5	0.4	0.2	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)