

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: P699865 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-40-70-5L-S**

Issue Date: 8/10/2023

Test Information

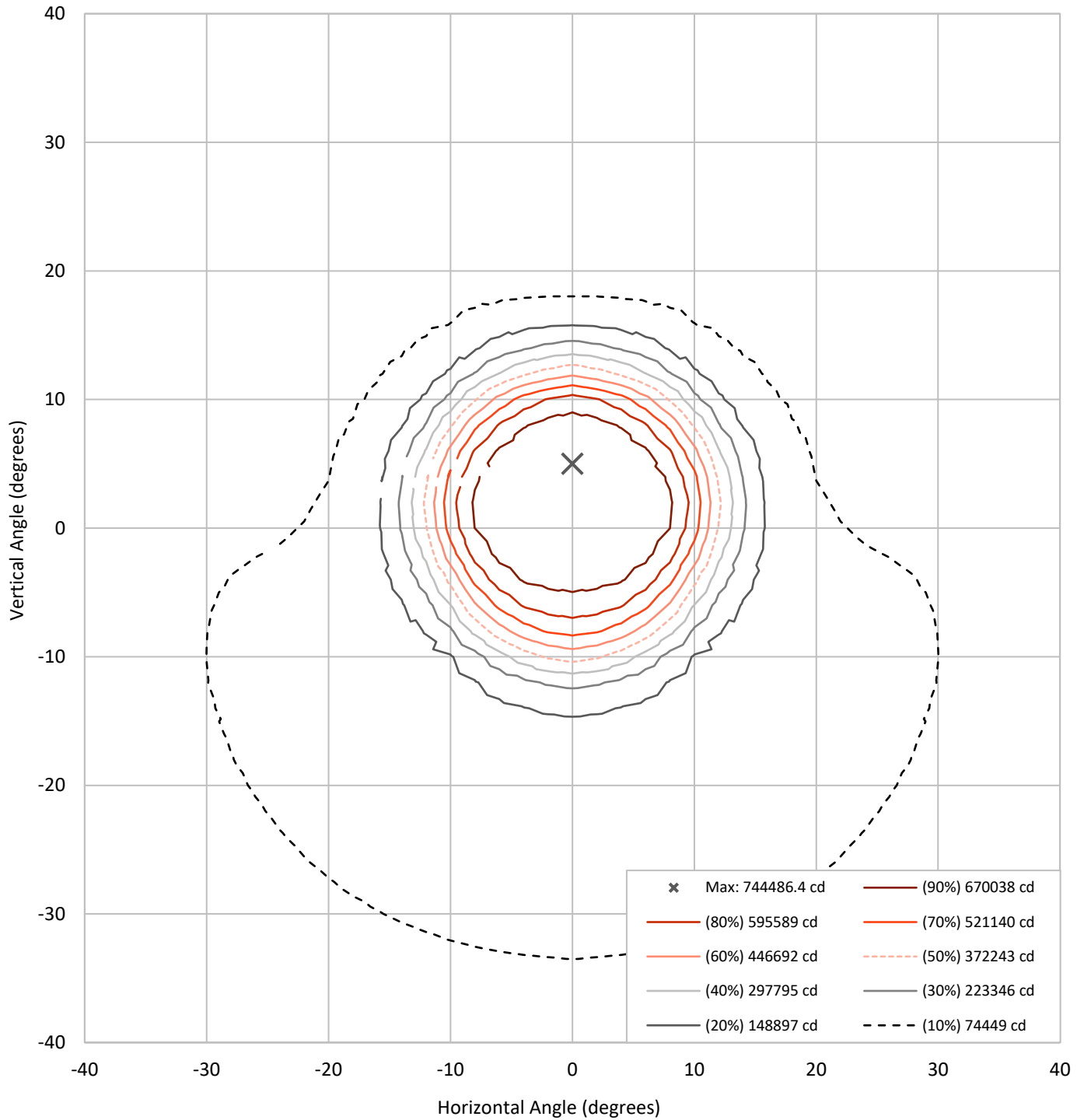
Test Method: LM-79-08
Report Number: P699865 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-53)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-40-70-5L-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 70 CRI LEDS AND 5L BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 4V
Luminaire Lumens:	175972.5 lumens	Max Intensity:	744486.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	140.1 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	23.3°H x 23°V	Field Angle (10%):	39.5°H x 51.6°V
Beam Lumens:	78095.3 lumens	Field Lumens:	143293 lumens
Beam Efficiency:	44.4%	Field Efficiency:	81.4%
Input Watts (W):	1255.9		
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





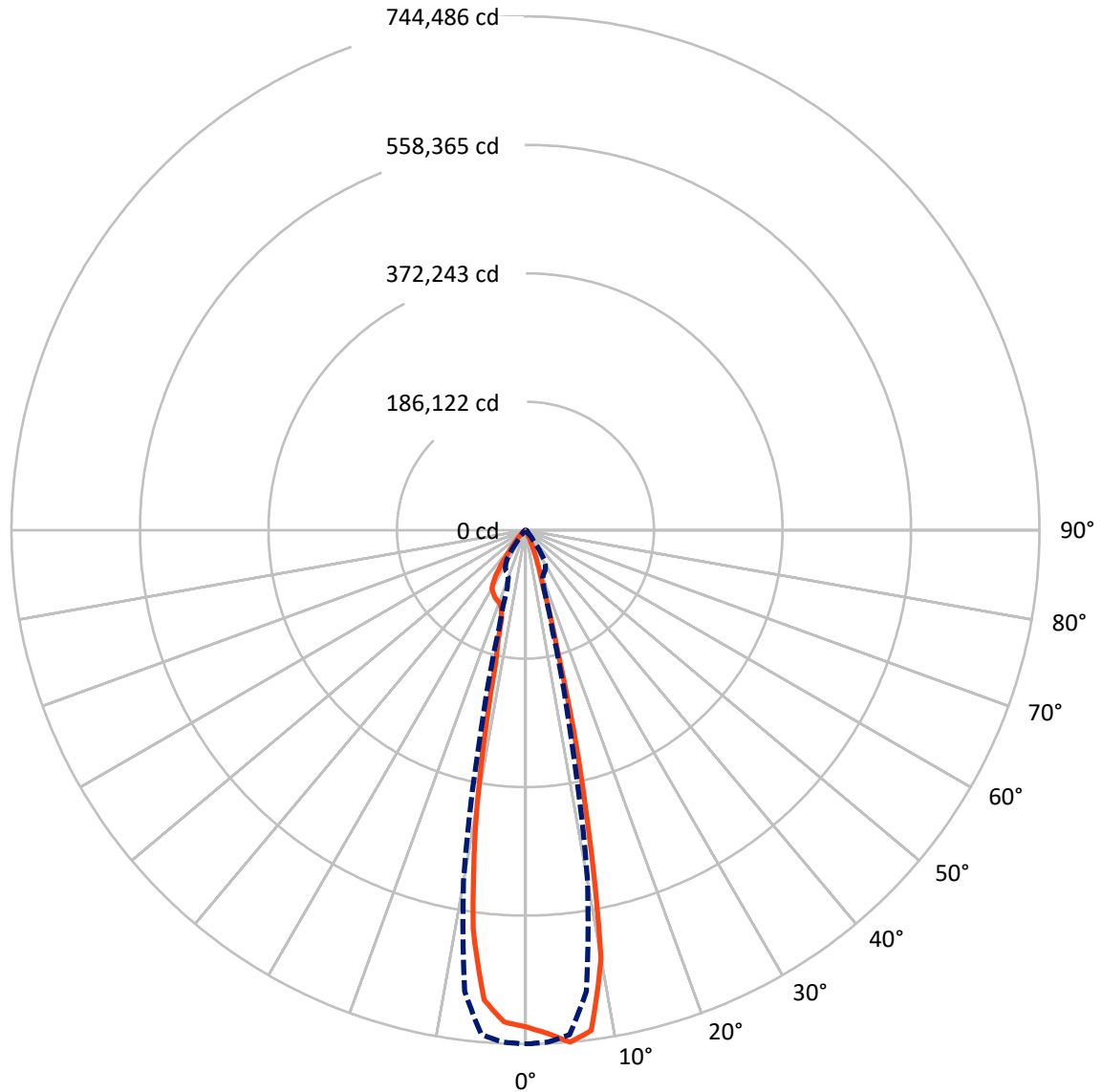
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Lumen Table

90	0.3	1.2		2.3		3.5		4.0		3.5		2.3		1.2		0.3
80	0.3	1.2		2.3		3.5		4.0		3.5		2.3		1.2		0.3
70	0.5	0.4	0.9	1.5	2.2	2.9	3.7	4.1	4.1	3.7	2.9	2.2	1.5	0.9	0.4	0.5
60		0.7	1.5	2.6	4.3	6.7	11.6	21.7	21.7	11.6	6.7	4.3	2.6	1.5	0.7	
50	0.8	1.0	2.2	4.8	9.9	18.4	30.0	46.4	46.4	30.0	18.4	9.9	4.8	2.2	1.0	0.8
40		1.3	3.5	9.6	21.3	38.6	74.9	99.1	99.1	74.9	38.6	21.3	9.6	3.5	1.3	
30	1.0	1.6	5.5	22.3	70.3	300.6	444.8	544.4	544.4	444.8	300.6	70.3	22.3	5.5	1.6	1.0
20		2.0	9.4	56.4	386.5	1140.0	1966.1	5719.3	5719.3	1966.1	1140.0	386.5	56.4	9.4	2.0	
10	1.2	2.3	14.7	119.8	849.7	1797.4	5682.5	19924.2	19924.2	5682.5	1797.4	849.7	119.8	14.7	2.3	1.2
0		2.5	18.0	156.8	1065.2	2158.0	4772.4	16766.7	16766.7	4772.4	2158.0	1065.2	156.8	18.0	2.5	
-10	1.1	2.4	14.6	125.7	847.8	2353.4	2966.6	4535.4	4535.4	2966.6	2353.4	847.8	125.7	14.6	2.4	1.1
-20		2.0	9.0	66.1	403.2	1627.1	2771.2	3131.6	3131.6	2771.2	1627.1	403.2	66.1	9.0	2.0	
-30	0.8	1.6	4.8	21.7	147.9	532.1	1221.7	1770.9	1770.9	1221.7	532.1	147.9	21.7	4.8	1.6	0.8
-40		1.2	2.9	6.7	30.4	125.6	281.2	405.2	405.2	281.2	125.6	30.4	6.7	2.9	1.2	
-50	0.5	0.7	1.9	3.4	6.1	13.8	32.1	47.3	47.3	32.1	13.8	6.1	3.4	1.9	0.7	0.5
-60		0.5	1.0	1.8	2.8	3.8	5.0	5.9	5.9	5.0	3.8	2.8	1.8	1.0	0.5	
-70	0.3	1.2		2.5		3.9		4.5		3.9		2.5		1.2		0.3
-80		1.2		2.5		3.9		4.5		3.9		2.5		1.2		
-90	0.3	1.2		2.5		3.9		4.5		3.9		2.5		1.2		0.3

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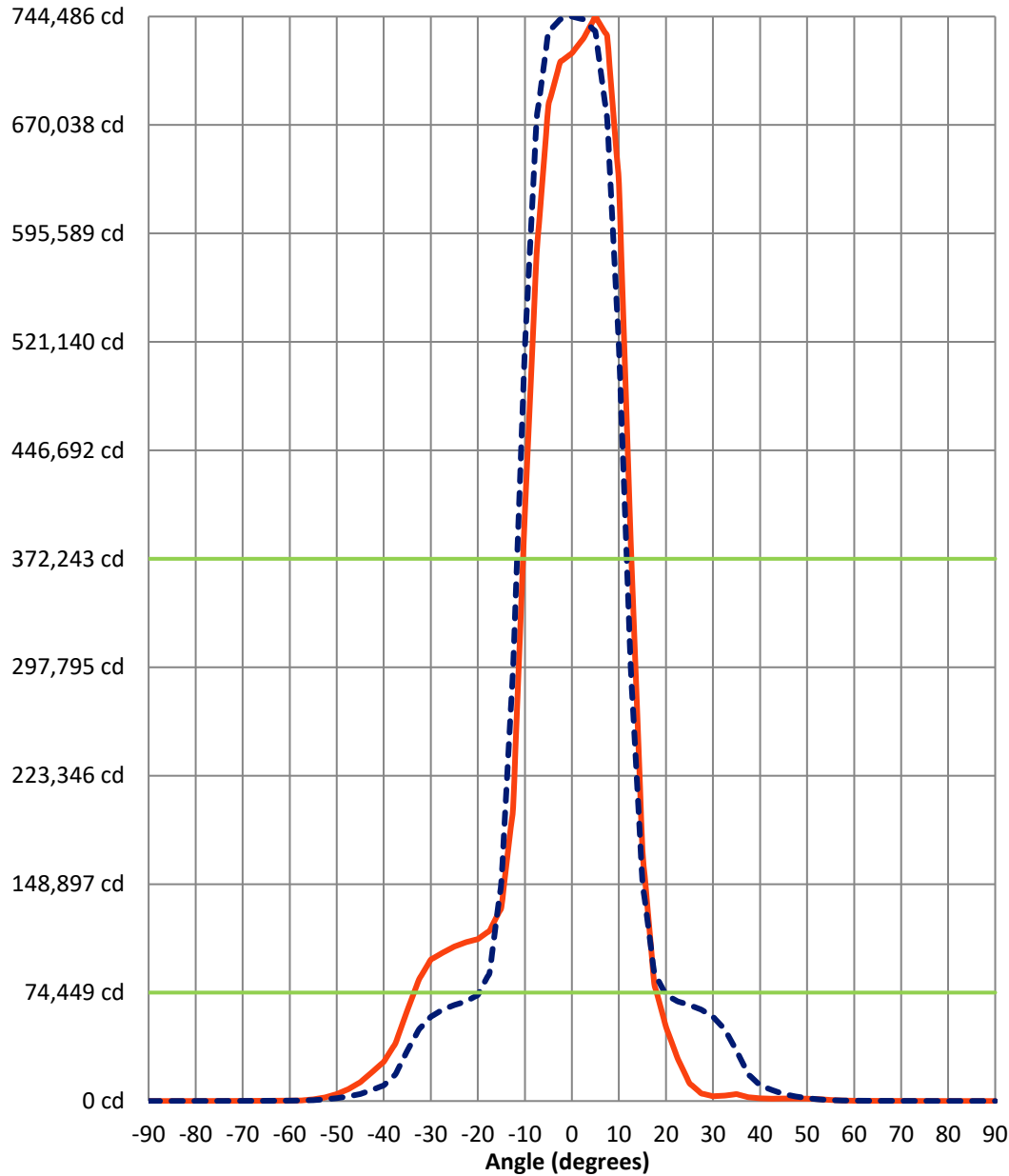
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 5-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 23.3°
 V Angle: 23°
 Lumens: 78095.3
 Efficiency: 44.4%

Field:
 H Angle: 39.5°
 V Angle: 51.6°
 Lumens: 143293
 Efficiency: 81.4%

Spill:
 Lumens: 32679.5
 Efficiency: 18.6%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 5-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.8	1.6	2.4	3.2	3.9	4.7	5.4	6.1	6.7	7.3
85°	0.0	1.6	3.2	4.7	6.3	7.9	9.4	10.8	12.1	13.3	14.5
82.5°	0.0	2.4	4.7	7.1	9.5	11.8	14.1	16.2	17.8	18.0	18.3
80°	0.0	3.2	6.3	9.5	12.6	15.7	18.3	18.8	19.2	19.6	20.0
77.5°	0.0	3.9	7.9	11.8	15.7	18.5	19.3	20.0	20.5	21.1	21.7
75°	0.0	4.7	9.4	14.1	18.3	19.3	20.3	21.1	21.9	22.9	23.8
72.5°	0.0	5.5	10.9	16.4	19.0	20.2	21.3	22.4	23.6	24.8	25.9
70°	0.0	6.2	12.4	18.3	19.6	21.0	22.4	23.9	25.2	26.6	28.3
67.5°	0.0	7.0	13.9	18.8	20.3	21.8	23.6	25.3	26.9	28.9	30.8
65°	0.0	7.7	15.4	19.3	20.9	22.7	24.8	26.7	28.9	31.1	33.4
62.5°	0.0	8.4	16.8	19.7	21.6	23.7	25.9	28.3	30.8	33.3	36.5
60°	0.0	9.1	18.2	20.2	22.2	24.6	27.1	30.0	32.7	36.0	39.5
57.5°	0.0	9.8	18.5	20.6	22.9	25.6	28.4	31.6	34.8	38.5	43.5
55°	0.0	10.4	18.8	21.1	23.6	26.5	29.8	33.2	37.0	41.3	48.0
52.5°	0.0	11.1	19.1	21.5	24.3	27.4	31.2	35.0	39.0	45.4	52.5
50°	0.0	11.7	19.3	21.9	25.0	28.5	32.5	36.8	41.4	49.3	59.6
47.5°	0.0	12.3	19.6	22.3	25.7	29.6	33.9	38.5	44.9	53.2	66.8
45°	0.0	12.9	19.9	22.8	26.3	30.7	35.4	40.2	48.4	59.3	73.7
42.5°	0.0	13.4	20.1	23.2	26.9	31.7	36.8	42.7	51.9	65.2	80.8
40°	0.0	13.9	20.3	23.7	27.6	32.8	38.2	45.6	55.8	70.9	87.8
37.5°	0.0	14.4	20.5	24.1	28.4	33.7	39.5	48.5	60.9	76.8	94.6
35°	0.0	14.9	20.8	24.5	29.1	34.7	40.8	51.2	65.7	83.0	100.7
32.5°	0.0	15.3	20.9	24.8	29.8	35.8	42.4	53.9	70.3	88.8	105.5
30°	0.0	15.8	21.1	25.2	30.5	36.7	44.5	56.7	74.7	94.3	110.2
27.5°	0.0	16.1	21.3	25.5	31.1	37.6	46.5	60.3	79.0	99.5	114.8
25°	0.0	16.5	21.4	25.8	31.6	38.5	48.4	63.6	83.2	103.6	119.3
22.5°	0.0	16.8	21.6	26.1	32.1	39.3	50.2	66.7	87.1	107.2	125.2
20°	0.0	17.1	21.7	26.3	32.6	40.0	51.8	69.5	90.7	110.7	130.7
17.5°	0.0	17.4	21.8	26.5	33.0	40.7	53.3	72.1	94.0	113.8	135.8
15°	0.0	17.6	21.9	26.7	33.3	41.3	54.6	74.4	96.8	116.8	140.4
12.5°	0.0	17.8	22.0	26.8	33.6	41.8	55.6	76.3	99.6	119.5	144.5
10°	0.0	17.9	22.1	27.0	33.9	42.3	56.6	78.0	102.4	122.7	149.0
7.5°	0.0	18.0	22.1	27.1	34.1	42.7	57.3	79.4	104.8	125.8	155.1
5°	0.0	18.1	22.2	27.1	34.2	43.0	57.9	80.4	106.9	128.6	160.7
2.5°	0.0	18.2	22.2	27.2	34.3	43.2	58.3	81.2	108.7	131.1	165.9
0°	0.0	18.2	22.2	27.2	34.3	43.4	58.5	81.7	110.0	133.2	170.5
-2.5°	0.0	18.2	22.2	27.2	34.3	43.5	58.5	81.9	110.3	134.5	174.1
-5°	0.0	18.1	22.2	27.1	34.2	43.4	58.4	81.7	110.2	135.2	176.8
-7.5°	0.0	18.0	22.1	27.1	34.1	43.3	58.1	81.2	109.6	135.5	178.4
-10°	0.0	17.9	22.1	27.0	33.9	43.1	57.6	80.3	108.5	135.2	178.9
-12.5°	0.0	17.8	22.0	26.8	33.6	42.8	57.0	79.2	106.9	134.2	175.4
-15°	0.0	17.6	21.9	26.7	33.3	42.4	56.1	77.6	104.9	131.8	169.9
-17.5°	0.0	17.4	21.8	26.5	33.0	41.8	55.1	75.8	102.3	129.1	163.7
-20°	0.0	17.1	21.7	26.3	32.6	41.2	53.9	73.5	99.3	125.9	157.0



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 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5L-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	16.8	21.6	26.1	32.1	40.5	52.5	70.9	95.8	122.4	149.7
-25°	0.0	16.5	21.4	25.8	31.6	39.6	51.0	67.9	91.9	118.5	141.9
-27.5°	0.0	16.1	21.3	25.5	31.1	38.6	49.3	64.6	87.5	114.1	136.9
-30°	0.0	15.8	21.1	25.2	30.5	37.5	47.4	60.9	83.1	108.7	131.7
-32.5°	0.0	15.3	20.9	24.8	29.8	36.3	45.4	58.1	78.5	102.8	126.3
-35°	0.0	14.9	20.8	24.5	29.1	35.0	43.6	55.6	73.5	96.4	120.5
-37.5°	0.0	14.4	20.5	24.1	28.4	33.7	42.0	52.9	68.1	89.6	113.3
-40°	0.0	13.9	20.3	23.7	27.6	32.8	40.2	50.0	62.3	82.8	104.9
-42.5°	0.0	13.4	20.1	23.2	26.9	31.7	38.2	47.0	58.0	75.7	96.1
-45°	0.0	12.9	19.9	22.8	26.3	30.7	36.2	44.1	54.4	68.2	86.9
-47.5°	0.0	12.3	19.6	22.3	25.6	29.6	34.0	41.6	50.6	60.4	78.1
-50°	0.0	11.7	19.3	21.8	24.9	28.5	32.5	38.9	46.6	55.9	69.0
-52.5°	0.0	11.1	19.1	21.4	24.2	27.4	31.2	36.0	43.0	51.3	59.9
-55°	0.0	10.4	18.8	21.0	23.4	26.4	29.8	33.2	39.5	46.5	54.6
-57.5°	0.0	9.8	18.5	20.5	22.6	25.4	28.4	31.6	35.8	42.1	49.2
-60°	0.0	9.1	18.2	20.0	21.8	24.3	27.1	29.9	32.4	37.7	43.8
-62.5°	0.0	8.4	16.8	19.6	21.2	23.2	25.7	28.2	30.5	33.2	38.6
-65°	0.0	7.7	15.4	19.1	20.5	22.1	24.3	26.5	28.5	30.5	33.3
-67.5°	0.0	7.0	13.9	18.6	19.9	21.1	22.9	24.9	26.5	28.3	29.9
-70°	0.0	6.2	12.4	18.1	19.2	20.3	21.5	23.2	24.7	26.0	27.4
-72.5°	0.0	5.5	10.9	16.2	18.5	19.5	20.4	21.5	22.8	24.0	25.0
-75°	0.0	4.7	9.4	13.9	17.9	18.6	19.4	20.1	20.9	22.0	22.9
-77.5°	0.0	3.9	7.9	11.6	15.3	17.8	18.4	18.9	19.5	20.1	20.8
-80°	0.0	3.2	6.3	9.3	12.2	15.1	17.3	17.7	18.1	18.5	18.9
-82.5°	0.0	2.4	4.7	7.0	9.2	11.3	13.3	15.2	16.8	17.0	17.2
-85°	0.0	1.6	3.2	4.7	6.1	7.5	8.9	10.2	11.4	12.5	13.6
-87.5°	0.0	0.8	1.6	2.3	3.1	3.8	4.5	5.1	5.7	6.3	6.8
-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: P699865 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5L-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°	7.8	8.3	8.8	9.2	9.6	10.0	10.4	10.7	10.8	10.8	10.8
85°	15.6	16.6	16.7	16.7	16.7	16.6	16.5	16.4	16.1	15.7	15.4
82.5°	18.5	18.7	18.9	19.1	19.1	19.0	18.8	18.7	18.6	18.4	18.2
80°	20.3	20.7	21.2	21.7	21.8	21.8	21.8	21.6	21.6	21.7	22.0
77.5°	22.5	23.2	23.9	24.5	24.8	25.2	25.6	26.1	26.6	27.1	27.5
75°	24.8	25.7	26.7	27.8	28.7	29.4	30.3	31.7	33.2	34.7	36.4
72.5°	27.2	28.6	30.0	31.3	33.1	34.9	36.8	38.6	40.9	43.2	45.3
70°	30.0	31.6	33.8	36.2	38.5	41.0	44.0	46.8	49.5	52.5	55.9
67.5°	32.8	35.5	38.2	41.3	45.1	48.5	51.9	56.9	61.5	65.6	69.3
65°	36.3	39.4	43.4	47.8	52.1	58.0	63.9	69.3	74.7	79.5	83.8
62.5°	39.8	44.5	49.4	55.4	62.8	69.5	76.0	82.2	88.2	92.5	96.4
60°	44.5	50.0	57.4	66.0	73.7	81.0	88.1	93.9	99.0	103.8	111.1
57.5°	49.5	57.6	67.6	76.5	84.6	92.0	98.0	103.8	112.2	120.6	129.4
55°	55.8	67.2	77.5	86.6	94.5	100.8	108.4	118.6	128.3	140.4	151.9
52.5°	64.4	76.5	86.8	95.7	102.6	111.6	123.0	135.8	150.0	164.4	183.7
50°	72.7	85.0	95.6	103.0	112.6	125.3	140.6	157.2	176.2	197.4	220.2
47.5°	80.6	93.4	102.0	111.3	125.3	142.1	161.2	183.0	206.0	234.1	259.7
45°	88.4	100.2	108.5	122.9	140.1	161.4	186.4	209.8	243.1	275.9	316.2
42.5°	96.2	106.3	118.7	134.3	157.8	185.2	214.0	248.0	284.7	329.5	394.3
40°	102.1	112.5	129.3	151.0	177.5	212.6	250.5	289.6	334.1	407.0	493.6
37.5°	107.6	121.9	141.0	168.0	203.8	244.8	288.2	340.4	410.6	498.0	615.0
35°	113.0	131.1	156.8	189.5	230.8	280.3	335.7	405.7	509.8	620.0	736.3
32.5°	120.0	139.9	172.5	213.8	262.8	318.7	384.1	504.3	643.7	773.2	861.7
30°	127.6	153.4	189.8	237.4	294.5	364.5	469.3	617.7	802.3	961.7	1069.2
27.5°	135.1	167.0	210.5	264.1	327.9	411.4	581.3	778.1	993.6	1184.7	1328.4
25°	142.1	179.6	230.2	291.1	369.9	502.9	722.0	983.0	1219.5	1461.9	1677.5
22.5°	150.7	191.3	247.7	316.8	411.9	618.6	914.4	1245.9	1559.8	1809.8	2097.4
20°	160.4	205.8	266.3	342.7	455.4	742.2	1122.0	1548.9	1984.3	2445.7	2994.9
17.5°	169.1	218.9	285.2	381.1	559.6	905.2	1349.5	1882.1	2467.2	3260.2	4461.0
15°	176.9	230.8	302.5	422.3	679.1	1114.5	1673.3	2315.4	3111.1	4336.1	6202.1
12.5°	183.7	241.2	318.1	464.9	800.6	1330.5	2036.9	2898.3	4078.6	5827.5	9656.9
10°	189.4	250.2	331.8	507.5	920.8	1547.0	2418.7	3527.5	5219.1	7540.9	12955.3
7.5°	198.6	259.5	344.7	548.5	1035.7	1757.6	2804.5	4178.4	6416.5	9205.7	15890.7
5°	207.7	268.9	362.1	605.8	1157.6	1974.1	3185.5	4824.2	7616.2	10787.2	18432.9
2.5°	215.9	276.5	377.5	662.4	1276.3	2201.5	3565.8	5418.3	8622.3	12238.6	20728.4
0°	223.0	282.5	390.5	712.3	1377.3	2401.4	3900.8	5946.0	9476.5	13534.6	22734.6
-2.5°	229.5	290.5	407.5	747.7	1422.8	2507.6	4084.0	6286.6	9880.4	14202.3	23945.5
-5°	234.5	296.9	420.7	771.3	1444.7	2568.8	4197.3	6516.2	10060.1	14551.1	24400.8
-7.5°	238.0	301.6	429.3	777.3	1414.9	2492.0	4082.3	6365.3	9818.4	14450.5	23986.4
-10°	238.8	301.9	433.9	746.4	1322.1	2316.8	3851.7	6083.4	9381.0	13990.8	22759.4
-12.5°	232.0	297.3	430.8	709.5	1214.6	2103.7	3536.9	5663.9	8742.6	13132.9	20588.5
-15°	223.8	289.9	418.5	668.2	1094.9	1854.7	3134.3	5100.2	7911.3	11873.5	17382.1
-17.5°	214.1	279.4	395.9	624.2	965.4	1571.6	2643.8	4423.4	7038.6	10681.7	15669.5
-20°	202.9	265.6	362.1	579.0	841.3	1328.1	2265.3	3837.5	6171.0	9402.6	13692.9



REPORT NUMBER: P699865 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5L-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	190.4	248.4	329.6	538.1	751.4	1134.8	1877.3	3153.1	5112.1	7885.9	11686.9
-25°	178.9	233.1	309.2	460.5	653.5	926.3	1444.8	2422.8	4112.8	6616.8	9903.9
-27.5°	169.2	216.5	279.8	384.3	553.8	734.6	1141.4	1917.1	3230.6	5175.4	7971.1
-30°	159.2	197.6	248.8	320.6	465.4	623.0	887.0	1391.0	2361.2	3983.6	6232.6
-32.5°	148.7	179.1	224.1	285.1	384.5	511.5	661.4	1048.2	1747.8	2807.7	4538.2
-35°	139.4	166.9	202.9	248.3	311.5	420.3	544.1	743.3	1169.9	1990.6	3272.2
-37.5°	132.4	154.4	182.2	217.4	270.5	343.6	426.9	552.8	813.3	1272.3	2278.6
-40°	125.3	141.5	166.6	195.5	230.3	283.9	351.8	422.0	537.7	895.0	1420.6
-42.5°	117.8	133.5	152.4	174.6	203.5	242.3	285.9	339.6	414.4	578.8	941.1
-45°	107.5	125.6	139.0	158.8	180.7	207.6	244.2	279.6	334.0	410.1	586.4
-47.5°	96.8	116.5	130.4	142.9	161.1	182.4	207.2	240.9	277.3	325.8	374.4
-50°	85.9	104.2	121.2	131.5	144.0	159.9	179.5	204.8	235.4	268.4	307.8
-52.5°	75.4	91.5	108.1	121.5	130.6	141.8	156.7	175.7	198.7	223.3	252.8
-55°	64.5	79.3	94.0	108.3	119.9	127.8	137.8	152.4	167.2	187.9	208.0
-57.5°	56.7	67.1	80.4	93.5	105.9	116.4	124.1	132.2	144.7	157.9	171.8
-60°	50.5	57.3	67.0	78.9	90.4	101.0	110.6	118.1	125.5	133.2	144.3
-62.5°	44.3	50.5	56.7	64.5	75.0	84.8	93.7	101.9	109.5	116.0	122.4
-65°	38.4	43.7	49.2	54.6	59.9	68.6	77.0	84.5	91.5	98.0	104.0
-67.5°	32.2	36.9	41.7	46.5	51.2	55.8	60.4	67.5	73.9	79.6	84.9
-70°	29.0	30.6	34.2	38.3	42.4	46.3	50.2	54.1	57.9	62.0	66.8
-72.5°	26.2	27.6	29.0	30.3	33.7	37.2	40.5	43.3	46.4	49.5	52.5
-75°	23.8	24.7	25.7	26.8	28.0	29.5	31.3	34.1	36.5	38.8	41.0
-77.5°	21.5	22.2	22.9	23.5	24.0	24.8	25.8	27.0	28.2	29.5	30.8
-80°	19.3	19.7	20.2	20.7	20.9	21.1	21.3	21.4	21.5	21.9	22.5
-82.5°	17.4	17.7	17.9	18.1	18.1	18.0	17.9	17.8	18.0	18.0	18.0
-85°	14.6	15.6	15.7	15.7	15.7	15.6	15.5	15.4	15.2	15.0	14.8
-87.5°	7.3	7.8	8.2	8.7	9.0	9.4	9.7	10.0	10.0	10.0	10.0
-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: P699865 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5L-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°	10.7	10.4	10.1	9.6	9.2	8.6	8.1	7.5	6.9	5.9	5.0
85°	15.0	14.4	13.8	13.2	12.6	11.9	11.3	10.6	9.9	9.7	9.5
82.5°	18.0	17.6	17.1	16.6	16.1	16.3	16.6	17.0	17.4	17.6	17.8
80°	22.2	22.4	22.7	23.0	23.5	24.5	25.6	26.7	27.7	28.2	28.6
77.5°	28.4	29.7	31.1	32.4	33.6	35.0	36.3	37.4	38.4	39.1	39.5
75°	38.2	39.9	41.5	43.0	44.5	46.0	47.5	48.8	49.9	50.7	51.4
72.5°	47.2	49.2	51.4	54.1	56.6	59.0	61.2	63.3	65.3	66.7	67.7
70°	59.0	61.9	65.2	68.3	71.1	73.8	76.6	79.2	81.7	83.4	84.6
67.5°	72.9	76.3	79.9	83.1	86.0	89.1	92.8	96.2	99.3	101.5	102.8
65°	87.5	90.5	94.3	98.1	101.9	107.1	112.6	117.6	122.1	125.4	127.5
62.5°	100.2	105.2	111.6	118.2	124.6	131.1	138.0	144.2	150.0	154.6	157.4
60°	118.1	124.8	133.7	142.7	151.0	158.5	168.6	177.8	185.8	192.7	198.1
57.5°	139.8	149.7	160.4	173.5	185.8	197.3	211.1	228.9	248.6	270.2	301.0
55°	166.5	181.9	195.3	211.9	229.9	248.2	271.1	310.0	353.8	400.9	479.9
52.5°	201.7	220.0	236.5	257.9	290.8	322.9	356.8	428.5	508.7	592.7	742.1
50°	241.9	265.5	296.9	329.4	381.5	437.4	491.0	589.4	703.2	818.3	999.3
47.5°	295.0	330.6	385.3	441.8	508.6	584.5	659.7	767.9	890.1	1002.0	1155.2
45°	365.6	436.1	504.8	578.1	655.6	746.5	830.2	921.4	1032.9	1125.5	1233.0
42.5°	472.7	560.7	645.9	728.4	817.5	905.9	985.8	1069.8	1159.9	1244.4	1334.0
40°	598.1	694.9	783.3	872.8	944.7	1026.8	1103.2	1181.8	1282.6	1402.9	1510.6
37.5°	725.0	817.9	899.0	980.3	1047.3	1104.6	1233.3	1364.9	1489.7	1783.7	2046.8
35°	851.0	941.0	1002.9	1084.2	1181.3	1313.3	1523.0	1877.8	2194.8	2794.9	3393.8
32.5°	981.9	1079.0	1152.4	1275.0	1447.2	1876.8	2181.8	3078.7	3849.8	4147.3	4026.0
30°	1128.0	1256.1	1457.8	1694.7	2330.3	3346.3	4153.7	4521.2	4333.5	3848.3	3875.1
27.5°	1419.6	1600.4	2057.5	3240.9	4844.7	6576.2	6929.8	5995.0	6359.4	5229.4	6013.8
25°	1919.9	2259.7	4148.3	7349.5	10099.0	11216.4	12063.3	11438.3	12247.7	12281.6	12983.3
22.5°	2778.1	4924.8	8630.8	13826.3	17070.9	18806.4	19871.6	21043.8	22320.2	24220.5	25425.0
20°	4425.0	8441.4	15980.2	21508.7	25281.4	27701.7	29652.7	32230.3	35156.6	38730.0	41598.8
17.5°	8102.5	15330.5	23716.9	29686.5	33799.8	37297.6	40369.8	43923.0	48412.6	54042.6	59603.6
15°	12174.9	22847.6	31505.2	37595.3	42278.9	46371.7	50479.1	54768.4	60819.5	69776.9	82848.6
12.5°	18050.4	30070.0	39310.3	45255.1	50363.3	54358.2	58410.6	64006.0	73021.7	86592.3	138705.1
10°	24113.3	36949.7	46019.5	51901.6	56681.1	60593.1	64489.1	70315.3	87166.1	140457.6	244026.4
7.5°	29605.1	43336.4	52149.1	57820.7	61909.0	64961.6	69145.8	80161.2	117810.4	208502.1	391169.7
5°	34561.2	49238.6	57817.9	62743.6	65912.8	68406.4	72833.1	88148.6	150503.4	298105.7	516809.5
2.5°	38373.9	54111.0	62903.4	66934.7	69233.4	71354.6	75913.8	92762.8	165390.7	343961.9	573664.4
0°	40564.5	57160.5	66831.7	70331.9	72215.6	74068.2	78883.1	96416.3	167061.0	321874.3	552934.2
-2.5°	42411.3	59962.8	70297.9	73777.0	75403.6	76854.6	81321.2	97657.4	149861.8	260818.6	472839.2
-5°	42761.1	61238.3	72647.8	76911.3	78505.0	79687.2	82955.9	96024.8	130700.5	192209.1	340435.4
-7.5°	41579.7	60933.8	74138.8	79840.3	81720.7	82873.2	85253.2	93069.0	111805.9	143826.2	228270.3
-10°	38937.5	58951.9	74591.3	82470.9	85210.1	86470.8	87818.6	90869.3	99933.0	118176.8	143020.4
-12.5°	34470.0	54741.5	73744.8	84737.8	88351.5	89978.7	91337.9	93474.2	97121.9	103201.5	118135.1
-15°	29073.4	48698.5	68744.4	82613.5	89797.5	93019.1	94984.0	95993.9	97816.5	101467.3	107245.7
-17.5°	24956.8	40769.5	60543.8	78744.5	89806.4	94468.7	97017.4	99044.3	100344.1	102641.3	104939.3
-20°	20030.6	31445.1	50475.4	69327.0	84176.4	93696.3	97607.9	100137.0	102340.0	103883.2	105623.5



REPORT NUMBER: P699865 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5L-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	16807.7	25544.3	38861.2	57277.3	74599.5	86914.6	95715.7	98996.1	101765.8	103449.4	104991.2
-25°	14054.3	19494.7	29439.7	43892.6	60907.8	76064.1	87121.6	95393.1	98776.3	101134.8	102594.6
-27.5°	11553.1	16152.2	22007.4	31925.6	45713.2	60299.0	73385.6	84846.3	91247.0	97036.8	98553.1
-30°	9139.4	13001.6	17705.4	23175.4	32113.0	42686.4	55284.8	66637.8	76694.6	84598.6	88909.2
-32.5°	7123.7	10197.0	14019.6	18299.9	22544.9	29784.1	36693.7	47113.8	56424.7	64617.6	71535.8
-35°	5158.6	7730.7	10629.0	14081.0	17591.8	21421.2	25869.5	31810.8	37148.8	43948.8	50361.2
-37.5°	3628.5	5480.3	7789.5	10314.9	13267.7	16151.6	19234.3	22359.5	25280.1	29486.4	33062.0
-40°	2436.7	3654.9	5332.5	7187.1	9501.8	11733.9	14181.2	16439.3	18597.9	20847.7	22794.3
-42.5°	1473.9	2345.7	3336.3	4737.5	6285.1	7998.4	9904.4	11692.0	13248.9	14788.4	16191.8
-45°	879.4	1373.4	1969.7	2876.0	3796.8	5092.5	6381.6	7557.7	8851.2	9976.1	10910.5
-47.5°	543.6	740.6	1135.6	1594.3	2176.5	2998.5	3800.8	4568.9	5476.6	6286.7	6956.9
-50°	353.7	441.0	623.5	822.3	1193.6	1621.9	2048.0	2542.8	3102.2	3596.7	3992.0
-52.5°	280.5	320.9	363.6	434.5	614.1	808.5	1011.0	1305.8	1603.3	1875.1	2084.9
-55°	231.1	255.4	277.9	313.0	351.5	388.8	449.5	602.0	743.6	872.6	971.9
-57.5°	189.5	206.9	225.2	245.9	266.4	286.5	314.5	347.6	379.5	408.1	416.4
-60°	155.2	165.8	180.8	195.8	209.5	222.2	241.9	261.3	279.0	294.0	302.4
-62.5°	128.6	136.5	146.2	156.0	165.4	175.7	188.6	201.6	214.5	226.4	236.3
-65°	109.4	114.5	120.0	125.6	131.3	139.0	147.4	155.3	162.7	169.6	175.8
-67.5°	89.9	94.4	98.7	102.7	106.7	111.0	115.8	120.5	125.1	129.0	132.4
-70°	71.1	74.9	78.1	80.9	83.8	87.0	90.3	93.2	95.8	97.8	99.3
-72.5°	55.1	57.7	60.3	63.2	65.6	67.8	70.0	71.9	73.5	74.6	75.4
-75°	43.0	45.2	47.5	49.5	51.4	53.0	54.6	56.0	57.3	58.1	58.6
-77.5°	32.4	34.1	35.7	37.2	38.7	40.0	41.2	42.3	43.1	43.6	43.9
-80°	23.3	24.3	25.3	26.2	27.1	28.0	29.0	29.8	30.6	30.9	31.1
-82.5°	18.0	18.1	18.2	18.3	18.5	18.6	18.8	19.0	19.3	19.5	19.8
-85°	14.7	14.4	14.0	13.7	13.4	12.8	12.1	11.5	10.8	10.9	10.9
-87.5°	9.9	9.8	9.6	9.4	9.2	8.6	8.1	7.5	6.9	6.2	5.5
-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: P699865 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5L-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°	4.0	3.0	3.0	3.0	3.0	3.0	4.0	5.0	5.9	6.9	7.5
85°	9.3	9.1	9.1	9.1	9.1	9.1	9.3	9.5	9.7	9.9	10.6
82.5°	18.0	18.1	18.2	18.2	18.2	18.1	18.0	17.8	17.6	17.4	17.0
80°	28.9	29.1	29.3	29.3	29.3	29.1	28.9	28.6	28.2	27.7	26.7
77.5°	39.9	40.2	39.9	39.4	39.9	40.2	39.9	39.5	39.1	38.4	37.4
75°	51.9	52.2	52.9	53.5	52.9	52.2	51.9	51.4	50.7	49.9	48.8
72.5°	68.5	69.1	70.0	70.6	70.0	69.1	68.5	67.7	66.7	65.3	63.3
70°	85.6	86.3	86.7	86.8	86.7	86.3	85.6	84.6	83.4	81.7	79.2
67.5°	103.7	104.3	104.7	104.9	104.7	104.3	103.7	102.8	101.5	99.3	96.2
65°	129.1	130.2	130.9	131.2	130.9	130.2	129.1	127.5	125.4	122.1	117.6
62.5°	159.6	161.1	160.3	158.4	160.3	161.1	159.6	157.4	154.6	150.0	144.2
60°	202.7	206.3	207.4	206.8	207.4	206.3	202.7	198.1	192.7	185.8	177.8
57.5°	333.8	366.6	383.0	388.5	383.0	366.6	333.8	301.0	270.2	248.6	228.9
55°	565.6	652.6	708.1	739.6	708.1	652.6	565.6	479.9	400.9	353.8	310.0
52.5°	918.5	1099.6	1230.9	1316.7	1230.9	1099.6	918.5	742.1	592.7	508.7	428.5
50°	1217.6	1432.6	1573.9	1644.7	1573.9	1432.6	1217.6	999.3	818.3	703.2	589.4
47.5°	1357.1	1551.6	1684.8	1752.6	1684.8	1551.6	1357.1	1155.2	1002.0	890.1	767.9
45°	1401.5	1559.7	1671.5	1725.4	1671.5	1559.7	1401.5	1233.0	1125.5	1032.9	921.4
42.5°	1451.8	1545.2	1600.5	1609.3	1600.5	1545.2	1451.8	1334.0	1244.4	1159.9	1069.8
40°	1632.8	1749.5	1840.2	1878.7	1840.2	1749.5	1632.8	1510.6	1402.9	1282.6	1181.8
37.5°	2284.0	2479.2	2610.3	2633.5	2610.3	2479.2	2284.0	2046.8	1783.7	1489.7	1364.9
35°	3897.8	4300.1	4587.5	4751.3	4587.5	4300.1	3897.8	3393.8	2794.9	2194.8	1877.8
32.5°	3883.3	3797.5	3747.1	3732.3	3747.1	3797.5	3883.3	4026.0	4147.3	3849.8	3078.7
30°	3554.6	3447.2	3315.1	3310.5	3315.1	3447.2	3554.6	3875.1	3848.3	4333.5	4521.2
27.5°	5829.5	5657.4	5217.8	5251.8	5217.8	5657.4	5829.5	6013.8	5229.4	6359.4	5995.0
25°	13584.3	13645.5	13290.9	12225.0	13290.9	13645.5	13584.3	12983.3	12281.6	12247.7	11438.3
22.5°	26974.0	27739.0	28875.4	29114.5	28875.4	27739.0	26974.0	25425.0	24220.5	22320.2	21043.8
20°	44924.3	47055.2	49972.8	50936.0	49972.8	47055.2	44924.3	41598.8	38730.0	35156.6	32230.3
17.5°	68224.1	75077.4	80854.4	80766.9	80854.4	75077.4	68224.1	59603.6	54042.6	48412.6	43923.0
15°	112532.3	141562.9	163645.2	172236.1	163645.2	141562.9	112532.3	82848.6	69776.9	60819.5	54768.4
12.5°	206858.5	291386.7	347597.1	384413.7	347597.1	291386.7	206858.5	138705.1	86592.3	73021.7	64006.0
10°	394885.4	525105.8	593843.4	629892.1	593843.4	525105.8	394885.4	244026.4	140457.6	87166.1	70315.3
7.5°	577077.5	673717.7	719812.8	731004.3	719812.8	673717.7	577077.5	391169.7	208502.1	117810.4	80161.2
5°	674011.8	733950.6	742478.8	744486.4	742478.8	733950.6	674011.8	516809.5	298105.7	150503.4	88148.6
2.5°	710686.0	736290.4	731973.5	729693.6	731973.5	736290.4	710686.0	573664.4	343961.9	165390.7	92762.8
0°	700015.6	731940.6	722203.9	719311.1	722203.9	731940.6	700015.6	552934.2	321874.3	167061.0	96416.3
-2.5°	644318.7	709494.7	713711.1	713216.2	713711.1	709494.7	644318.7	472839.2	260818.6	149861.8	97657.4
-5°	536679.3	640127.9	674645.9	683444.4	674645.9	640127.9	536679.3	340435.4	192209.1	130700.5	96024.8
-7.5°	375470.7	500399.1	562362.5	581583.0	562362.5	500399.1	375470.7	228270.3	143826.2	111805.9	93069.0
-10°	208523.3	308491.4	377146.4	403700.1	377146.4	308491.4	208523.3	143020.4	118176.8	99933.0	90869.3
-12.5°	135131.5	164134.0	191479.9	201538.8	191479.9	164134.0	135131.5	118135.1	103201.5	97121.9	93474.2
-15°	116659.2	125553.9	131051.9	132853.1	131051.9	125553.9	116659.2	107245.7	101467.3	97816.5	95993.9
-17.5°	109256.9	112513.4	114848.4	116949.3	114848.4	112513.4	109256.9	104939.3	102641.3	100344.1	99044.3
-20°	107404.1	109370.8	110304.6	111185.0	110304.6	109370.8	107404.1	105623.5	103883.2	102340.0	100137.0



REPORT NUMBER: P699865 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5L-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	106086.8	107255.5	108105.5	109044.9	108105.5	107255.5	106086.8	104991.2	103449.4	101765.8	98996.1
-25°	103607.8	104523.0	105216.8	106035.1	105216.8	104523.0	103607.8	102594.6	101134.8	98776.3	95393.1
-27.5°	99725.1	100612.5	101120.3	101793.3	101120.3	100612.5	99725.1	98553.1	97036.8	91247.0	84846.3
-30°	92159.8	94409.2	95717.6	97088.3	95717.6	94409.2	92159.8	88909.2	84598.6	76694.6	66637.8
-32.5°	76775.5	80266.1	82374.9	83519.4	82374.9	80266.1	76775.5	71535.8	64617.6	56424.7	47113.8
-35°	55250.6	58420.9	60384.5	62223.6	60384.5	58420.9	55250.6	50361.2	43948.8	37148.8	31810.8
-37.5°	35812.9	37692.3	38881.5	39715.0	38881.5	37692.3	35812.9	33062.0	29486.4	25280.1	22359.5
-40°	24525.4	25886.7	26751.7	26956.3	26751.7	25886.7	24525.4	22794.3	20847.7	18597.9	16439.3
-42.5°	17593.9	18779.3	19569.0	19802.5	19569.0	18779.3	17593.9	16191.8	14788.4	13248.9	11692.0
-45°	11747.4	12436.5	12850.6	12915.1	12850.6	12436.5	11747.4	10910.5	9976.1	8851.2	7557.7
-47.5°	7467.0	7847.1	8097.4	8215.2	8097.4	7847.1	7467.0	6956.9	6286.7	5476.6	4568.9
-50°	4298.6	4530.4	4693.7	4784.6	4693.7	4530.4	4298.6	3992.0	3596.7	3102.2	2542.8
-52.5°	2245.4	2363.0	2441.7	2481.1	2441.7	2363.0	2245.4	2084.9	1875.1	1603.3	1305.8
-55°	1056.2	1123.8	1157.9	1161.4	1157.9	1123.8	1056.2	971.9	872.6	743.6	602.0
-57.5°	418.9	416.3	414.9	412.7	414.9	416.3	418.9	416.4	408.1	379.5	347.6
-60°	308.3	312.0	315.7	318.8	315.7	312.0	308.3	302.4	294.0	279.0	261.3
-62.5°	245.0	252.4	256.0	257.3	256.0	252.4	245.0	236.3	226.4	214.5	201.6
-65°	181.4	186.2	188.2	188.7	188.2	186.2	181.4	175.8	169.6	162.7	155.3
-67.5°	135.3	137.7	138.9	139.2	138.9	137.7	135.3	132.4	129.0	125.1	120.5
-70°	100.4	101.1	101.7	101.9	101.7	101.1	100.4	99.3	97.8	95.8	93.2
-72.5°	75.9	76.3	76.6	76.7	76.6	76.3	75.9	75.4	74.6	73.5	71.9
-75°	59.0	59.2	59.4	59.5	59.4	59.2	59.0	58.6	58.1	57.3	56.0
-77.5°	44.1	44.2	44.3	44.4	44.3	44.2	44.1	43.9	43.6	43.1	42.3
-80°	31.2	31.1	31.3	31.3	31.3	31.1	31.2	31.1	30.9	30.6	29.8
-82.5°	20.0	20.1	20.2	20.2	20.2	20.1	20.0	19.8	19.5	19.3	19.0
-85°	11.0	11.0	11.1	11.1	11.1	11.0	11.0	10.9	10.9	10.8	11.5
-87.5°	4.7	4.0	4.0	4.0	4.0	4.0	4.7	5.5	6.2	6.9	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



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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°	8.1	8.6	9.2	9.6	10.1	10.4	10.7	10.8	10.8	10.8	10.7
85°	11.3	11.9	12.6	13.2	13.8	14.4	15.0	15.4	15.7	16.1	16.4
82.5°	16.6	16.3	16.1	16.6	17.1	17.6	18.0	18.2	18.4	18.6	18.7
80°	25.6	24.5	23.5	23.0	22.7	22.4	22.2	22.0	21.7	21.6	21.6
77.5°	36.3	35.0	33.6	32.4	31.1	29.7	28.4	27.5	27.1	26.6	26.1
75°	47.5	46.0	44.5	43.0	41.5	39.9	38.2	36.4	34.7	33.2	31.7
72.5°	61.2	59.0	56.6	54.1	51.4	49.2	47.2	45.3	43.2	40.9	38.6
70°	76.6	73.8	71.1	68.3	65.2	61.9	59.0	55.9	52.5	49.5	46.8
67.5°	92.8	89.1	86.0	83.1	79.9	76.3	72.9	69.3	65.6	61.5	56.9
65°	112.6	107.1	101.9	98.1	94.3	90.5	87.5	83.8	79.5	74.7	69.3
62.5°	138.0	131.1	124.6	118.2	111.6	105.2	100.2	96.4	92.5	88.2	82.2
60°	168.6	158.5	151.0	142.7	133.7	124.8	118.1	111.1	103.8	99.0	93.9
57.5°	211.1	197.3	185.8	173.5	160.4	149.7	139.8	129.4	120.6	112.2	103.8
55°	271.1	248.2	229.9	211.9	195.3	181.9	166.5	151.9	140.4	128.3	118.6
52.5°	356.8	322.9	290.8	257.9	236.5	220.0	201.7	183.7	164.4	150.0	135.8
50°	491.0	437.4	381.5	329.4	296.9	265.5	241.9	220.2	197.4	176.2	157.2
47.5°	659.7	584.5	508.6	441.8	385.3	330.6	295.0	259.7	234.1	206.0	183.0
45°	830.2	746.5	655.6	578.1	504.8	436.1	365.6	316.2	275.9	243.1	209.8
42.5°	985.8	905.9	817.5	728.4	645.9	560.7	472.7	394.3	329.5	284.7	248.0
40°	1103.2	1026.8	944.7	872.8	783.3	694.9	598.1	493.6	407.0	334.1	289.6
37.5°	1233.3	1104.6	1047.3	980.3	899.0	817.9	725.0	615.0	498.0	410.6	340.4
35°	1523.0	1313.3	1181.3	1084.2	1002.9	941.0	851.0	736.3	620.0	509.8	405.7
32.5°	2181.8	1876.8	1447.2	1275.0	1152.4	1079.0	981.9	861.7	773.2	643.7	504.3
30°	4153.7	3346.3	2330.3	1694.7	1457.8	1256.1	1128.0	1069.2	961.7	802.3	617.7
27.5°	6929.8	6576.2	4844.7	3240.9	2057.5	1600.4	1419.6	1328.4	1184.7	993.6	778.1
25°	12063.3	11216.4	10099.0	7349.5	4148.3	2259.7	1919.9	1677.5	1461.9	1219.5	983.0
22.5°	19871.6	18806.4	17070.9	13826.3	8630.8	4924.8	2778.1	2097.4	1809.8	1559.8	1245.9
20°	29652.7	27701.7	25281.4	21508.7	15980.2	8441.4	4425.0	2994.9	2445.7	1984.3	1548.9
17.5°	40369.8	37297.6	33799.8	29686.5	23716.9	15330.5	8102.5	4461.0	3260.2	2467.2	1882.1
15°	50479.1	46371.7	42278.9	37595.3	31505.2	22847.6	12174.9	6202.1	4336.1	3111.1	2315.4
12.5°	58410.6	54358.2	50363.3	45255.1	39310.3	30070.0	18050.4	9656.9	5827.5	4078.6	2898.3
10°	64489.1	60593.1	56681.1	51901.6	46019.5	36949.7	24113.3	12955.3	7540.9	5219.1	3527.5
7.5°	69145.8	64961.6	61909.0	57820.7	52149.1	43336.4	29605.1	15890.7	9205.7	6416.5	4178.4
5°	72833.1	68406.4	65912.8	62743.6	57817.9	49238.6	34561.2	18432.9	10787.2	7616.2	4824.2
2.5°	75913.8	71354.6	69233.4	66934.7	62903.4	54111.0	38373.9	20728.4	12238.6	8622.3	5418.3
0°	78883.1	74068.2	72215.6	70331.9	66831.7	57160.5	40564.5	22734.6	13534.6	9476.5	5946.0
-2.5°	81321.2	76854.6	75403.6	73777.0	70297.9	59962.8	42411.3	23945.5	14202.3	9880.4	6286.6
-5°	82955.9	79687.2	78505.0	76911.3	72647.8	61238.3	42761.1	24400.8	14551.1	10060.1	6516.2
-7.5°	85253.2	82873.2	81720.7	79840.3	74138.8	60933.8	41579.7	23986.4	14450.5	9818.4	6365.3
-10°	87818.6	86470.8	85210.1	82470.9	74591.3	58951.9	38937.5	22759.4	13990.8	9381.0	6083.4
-12.5°	91337.9	89978.7	88351.5	84737.8	73744.8	54741.5	34470.0	20588.5	13132.9	8742.6	5663.9
-15°	94984.0	93019.1	89797.5	82613.5	68744.4	48698.5	29073.4	17382.1	11873.5	7911.3	5100.2
-17.5°	97017.4	94468.7	89806.4	78744.5	60543.8	40769.5	24956.8	15669.5	10681.7	7038.6	4423.4
-20°	97607.9	93696.3	84176.4	69327.0	50475.4	31445.1	20030.6	13692.9	9402.6	6171.0	3837.5



REPORT NUMBER: P699865 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5L-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	95715.7	86914.6	74599.5	57277.3	38861.2	25544.3	16807.7	11686.9	7885.9	5112.1	3153.1
-25°	87121.6	76064.1	60907.8	43892.6	29439.7	19494.7	14054.3	9903.9	6616.8	4112.8	2422.8
-27.5°	73385.6	60299.0	45713.2	31925.6	22007.4	16152.2	11553.1	7971.1	5175.4	3230.6	1917.1
-30°	55284.8	42686.4	32113.0	23175.4	17705.4	13001.6	9139.4	6232.6	3983.6	2361.2	1391.0
-32.5°	36693.7	29784.1	22544.9	18299.9	14019.6	10197.0	7123.7	4538.2	2807.7	1747.8	1048.2
-35°	25869.5	21421.2	17591.8	14081.0	10629.0	7730.7	5158.6	3272.2	1990.6	1169.9	743.3
-37.5°	19234.3	16151.6	13267.7	10314.9	7789.5	5480.3	3628.5	2278.6	1272.3	813.3	552.8
-40°	14181.2	11733.9	9501.8	7187.1	5332.5	3654.9	2436.7	1420.6	895.0	537.7	422.0
-42.5°	9904.4	7998.4	6285.1	4737.5	3336.3	2345.7	1473.9	941.1	578.8	414.4	339.6
-45°	6381.6	5092.5	3796.8	2876.0	1969.7	1373.4	879.4	586.4	410.1	334.0	279.6
-47.5°	3800.8	2998.5	2176.5	1594.3	1135.6	740.6	543.6	374.4	325.8	277.3	240.9
-50°	2048.0	1621.9	1193.6	822.3	623.5	441.0	353.7	307.8	268.4	235.4	204.8
-52.5°	1011.0	808.5	614.1	434.5	363.6	320.9	280.5	252.8	223.3	198.7	175.7
-55°	449.5	388.8	351.5	313.0	277.9	255.4	231.1	208.0	187.9	167.2	152.4
-57.5°	314.5	286.5	266.4	245.9	225.2	206.9	189.5	171.8	157.9	144.7	132.2
-60°	241.9	222.2	209.5	195.8	180.8	165.8	155.2	144.3	133.2	125.5	118.1
-62.5°	188.6	175.7	165.4	156.0	146.2	136.5	128.6	122.4	116.0	109.5	101.9
-65°	147.4	139.0	131.3	125.6	120.0	114.5	109.4	104.0	98.0	91.5	84.5
-67.5°	115.8	111.0	106.7	102.7	98.7	94.4	89.9	84.9	79.6	73.9	67.5
-70°	90.3	87.0	83.8	80.9	78.1	74.9	71.1	66.8	62.0	57.9	54.1
-72.5°	70.0	67.8	65.6	63.2	60.3	57.7	55.1	52.5	49.5	46.4	43.3
-75°	54.6	53.0	51.4	49.5	47.5	45.2	43.0	41.0	38.8	36.5	34.1
-77.5°	41.2	40.0	38.7	37.2	35.7	34.1	32.4	30.8	29.5	28.2	27.0
-80°	29.0	28.0	27.1	26.2	25.3	24.3	23.3	22.5	21.9	21.5	21.4
-82.5°	18.8	18.6	18.5	18.3	18.2	18.1	18.0	18.0	18.0	18.0	17.8
-85°	12.1	12.8	13.4	13.7	14.0	14.4	14.7	14.8	15.0	15.2	15.4
-87.5°	8.1	8.6	9.2	9.4	9.6	9.8	9.9	10.0	10.0	10.0	10.0
-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: P699865 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-70-5L-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°	10.4	10.0	9.6	9.2	8.8	8.3	7.8	7.3	6.7	6.1	5.4
85°	16.5	16.6	16.7	16.7	16.7	16.6	15.6	14.5	13.3	12.1	10.8
82.5°	18.8	19.0	19.1	19.1	18.9	18.7	18.5	18.3	18.0	17.8	16.2
80°	21.8	21.8	21.8	21.7	21.2	20.7	20.3	20.0	19.6	19.2	18.8
77.5°	25.6	25.2	24.8	24.5	23.9	23.2	22.5	21.7	21.1	20.5	20.0
75°	30.3	29.4	28.7	27.8	26.7	25.7	24.8	23.8	22.9	21.9	21.1
72.5°	36.8	34.9	33.1	31.3	30.0	28.6	27.2	25.9	24.8	23.6	22.4
70°	44.0	41.0	38.5	36.2	33.8	31.6	30.0	28.3	26.6	25.2	23.9
67.5°	51.9	48.5	45.1	41.3	38.2	35.5	32.8	30.8	28.9	26.9	25.3
65°	63.9	58.0	52.1	47.8	43.4	39.4	36.3	33.4	31.1	28.9	26.7
62.5°	76.0	69.5	62.8	55.4	49.4	44.5	39.8	36.5	33.3	30.8	28.3
60°	88.1	81.0	73.7	66.0	57.4	50.0	44.5	39.5	36.0	32.7	30.0
57.5°	98.0	92.0	84.6	76.5	67.6	57.6	49.5	43.5	38.5	34.8	31.6
55°	108.4	100.8	94.5	86.6	77.5	67.2	55.8	48.0	41.3	37.0	33.2
52.5°	123.0	111.6	102.6	95.7	86.8	76.5	64.4	52.5	45.4	39.0	35.0
50°	140.6	125.3	112.6	103.0	95.6	85.0	72.7	59.6	49.3	41.4	36.8
47.5°	161.2	142.1	125.3	111.3	102.0	93.4	80.6	66.8	53.2	44.9	38.5
45°	186.4	161.4	140.1	122.9	108.5	100.2	88.4	73.7	59.3	48.4	40.2
42.5°	214.0	185.2	157.8	134.3	118.7	106.3	96.2	80.8	65.2	51.9	42.7
40°	250.5	212.6	177.5	151.0	129.3	112.5	102.1	87.8	70.9	55.8	45.6
37.5°	288.2	244.8	203.8	168.0	141.0	121.9	107.6	94.6	76.8	60.9	48.5
35°	335.7	280.3	230.8	189.5	156.8	131.1	113.0	100.7	83.0	65.7	51.2
32.5°	384.1	318.7	262.8	213.8	172.5	139.9	120.0	105.5	88.8	70.3	53.9
30°	469.3	364.5	294.5	237.4	189.8	153.4	127.6	110.2	94.3	74.7	56.7
27.5°	581.3	411.4	327.9	264.1	210.5	167.0	135.1	114.8	99.5	79.0	60.3
25°	722.0	502.9	369.9	291.1	230.2	179.6	142.1	119.3	103.6	83.2	63.6
22.5°	914.4	618.6	411.9	316.8	247.7	191.3	150.7	125.2	107.2	87.1	66.7
20°	1122.0	742.2	455.4	342.7	266.3	205.8	160.4	130.7	110.7	90.7	69.5
17.5°	1349.5	905.2	559.6	381.1	285.2	218.9	169.1	135.8	113.8	94.0	72.1
15°	1673.3	1114.5	679.1	422.3	302.5	230.8	176.9	140.4	116.8	96.8	74.4
12.5°	2036.9	1330.5	800.6	464.9	318.1	241.2	183.7	144.5	119.5	99.6	76.3
10°	2418.7	1547.0	920.8	507.5	331.8	250.2	189.4	149.0	122.7	102.4	78.0
7.5°	2804.5	1757.6	1035.7	548.5	344.7	259.5	198.6	155.1	125.8	104.8	79.4
5°	3185.5	1974.1	1157.6	605.8	362.1	268.9	207.7	160.7	128.6	106.9	80.4
2.5°	3565.8	2201.5	1276.3	662.4	377.5	276.5	215.9	165.9	131.1	108.7	81.2
0°	3900.8	2401.4	1377.3	712.3	390.5	282.5	223.0	170.5	133.2	110.0	81.7
-2.5°	4084.0	2507.6	1422.8	747.7	407.5	290.5	229.5	174.1	134.5	110.3	81.9
-5°	4197.3	2568.8	1444.7	771.3	420.7	296.9	234.5	176.8	135.2	110.2	81.7
-7.5°	4082.3	2492.0	1414.9	777.3	429.3	301.6	238.0	178.4	135.5	109.6	81.2
-10°	3851.7	2316.8	1322.1	746.4	433.9	301.9	238.8	178.9	135.2	108.5	80.3
-12.5°	3536.9	2103.7	1214.6	709.5	430.8	297.3	232.0	175.4	134.2	106.9	79.2
-15°	3134.3	1854.7	1094.9	668.2	418.5	289.9	223.8	169.9	131.8	104.9	77.6
-17.5°	2643.8	1571.6	965.4	624.2	395.9	279.4	214.1	163.7	129.1	102.3	75.8
-20°	2265.3	1328.1	841.3	579.0	362.1	265.6	202.9	157.0	125.9	99.3	73.5



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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°	1877.3	1134.8	751.4	538.1	329.6	248.4	190.4	149.7	122.4	95.8	70.9
-25°	1444.8	926.3	653.5	460.5	309.2	233.1	178.9	141.9	118.5	91.9	67.9
-27.5°	1141.4	734.6	553.8	384.3	279.8	216.5	169.2	136.9	114.1	87.5	64.6
-30°	887.0	623.0	465.4	320.6	248.8	197.6	159.2	131.7	108.7	83.1	60.9
-32.5°	661.4	511.5	384.5	285.1	224.1	179.1	148.7	126.3	102.8	78.5	58.1
-35°	544.1	420.3	311.5	248.3	202.9	166.9	139.4	120.5	96.4	73.5	55.6
-37.5°	426.9	343.6	270.5	217.4	182.2	154.4	132.4	113.3	89.6	68.1	52.9
-40°	351.8	283.9	230.3	195.5	166.6	141.5	125.3	104.9	82.8	62.3	50.0
-42.5°	285.9	242.3	203.5	174.6	152.4	133.5	117.8	96.1	75.7	58.0	47.0
-45°	244.2	207.6	180.7	158.8	139.0	125.6	107.5	86.9	68.2	54.4	44.1
-47.5°	207.2	182.4	161.1	142.9	130.4	116.5	96.8	78.1	60.4	50.6	41.6
-50°	179.5	159.9	144.0	131.5	121.2	104.2	85.9	69.0	55.9	46.6	38.9
-52.5°	156.7	141.8	130.6	121.5	108.1	91.5	75.4	59.9	51.3	43.0	36.0
-55°	137.8	127.8	119.9	108.3	94.0	79.3	64.5	54.6	46.5	39.5	33.2
-57.5°	124.1	116.4	105.9	93.5	80.4	67.1	56.7	49.2	42.1	35.8	31.6
-60°	110.6	101.0	90.4	78.9	67.0	57.3	50.5	43.8	37.7	32.4	29.9
-62.5°	93.7	84.8	75.0	64.5	56.7	50.5	44.3	38.6	33.2	30.5	28.2
-65°	77.0	68.6	59.9	54.6	49.2	43.7	38.4	33.3	30.5	28.5	26.5
-67.5°	60.4	55.8	51.2	46.5	41.7	36.9	32.2	29.9	28.3	26.5	24.9
-70°	50.2	46.3	42.4	38.3	34.2	30.6	29.0	27.4	26.0	24.7	23.2
-72.5°	40.5	37.2	33.7	30.3	29.0	27.6	26.2	25.0	24.0	22.8	21.5
-75°	31.3	29.5	28.0	26.8	25.7	24.7	23.8	22.9	22.0	20.9	20.1
-77.5°	25.8	24.8	24.0	23.5	22.9	22.2	21.5	20.8	20.1	19.5	18.9
-80°	21.3	21.1	20.9	20.7	20.2	19.7	19.3	18.9	18.5	18.1	17.7
-82.5°	17.9	18.0	18.1	18.1	17.9	17.7	17.4	17.2	17.0	16.8	15.2
-85°	15.5	15.6	15.7	15.7	15.7	15.6	14.6	13.6	12.5	11.4	10.2
-87.5°	9.7	9.4	9.0	8.7	8.2	7.8	7.3	6.8	6.3	5.7	5.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	4.7	3.9	3.2	2.4	1.6	0.8	0.0
85°	9.4	7.9	6.3	4.7	3.2	1.6	0.0
82.5°	14.1	11.8	9.5	7.1	4.7	2.4	0.0
80°	18.3	15.7	12.6	9.5	6.3	3.2	0.0
77.5°	19.3	18.5	15.7	11.8	7.9	3.9	0.0
75°	20.3	19.3	18.3	14.1	9.4	4.7	0.0
72.5°	21.3	20.2	19.0	16.4	10.9	5.5	0.0
70°	22.4	21.0	19.6	18.3	12.4	6.2	0.0
67.5°	23.6	21.8	20.3	18.8	13.9	7.0	0.0
65°	24.8	22.7	20.9	19.3	15.4	7.7	0.0
62.5°	25.9	23.7	21.6	19.7	16.8	8.4	0.0
60°	27.1	24.6	22.2	20.2	18.2	9.1	0.0
57.5°	28.4	25.6	22.9	20.6	18.5	9.8	0.0
55°	29.8	26.5	23.6	21.1	18.8	10.4	0.0
52.5°	31.2	27.4	24.3	21.5	19.1	11.1	0.0
50°	32.5	28.5	25.0	21.9	19.3	11.7	0.0
47.5°	33.9	29.6	25.7	22.3	19.6	12.3	0.0
45°	35.4	30.7	26.3	22.8	19.9	12.9	0.0
42.5°	36.8	31.7	26.9	23.2	20.1	13.4	0.0
40°	38.2	32.8	27.6	23.7	20.3	13.9	0.0
37.5°	39.5	33.7	28.4	24.1	20.5	14.4	0.0
35°	40.8	34.7	29.1	24.5	20.8	14.9	0.0
32.5°	42.4	35.8	29.8	24.8	20.9	15.3	0.0
30°	44.5	36.7	30.5	25.2	21.1	15.8	0.0
27.5°	46.5	37.6	31.1	25.5	21.3	16.1	0.0
25°	48.4	38.5	31.6	25.8	21.4	16.5	0.0
22.5°	50.2	39.3	32.1	26.1	21.6	16.8	0.0
20°	51.8	40.0	32.6	26.3	21.7	17.1	0.0
17.5°	53.3	40.7	33.0	26.5	21.8	17.4	0.0
15°	54.6	41.3	33.3	26.7	21.9	17.6	0.0
12.5°	55.6	41.8	33.6	26.8	22.0	17.8	0.0
10°	56.6	42.3	33.9	27.0	22.1	17.9	0.0
7.5°	57.3	42.7	34.1	27.1	22.1	18.0	0.0
5°	57.9	43.0	34.2	27.1	22.2	18.1	0.0
2.5°	58.3	43.2	34.3	27.2	22.2	18.2	0.0
0°	58.5	43.4	34.3	27.2	22.2	18.2	0.0
-2.5°	58.5	43.5	34.3	27.2	22.2	18.2	0.0
-5°	58.4	43.4	34.2	27.1	22.2	18.1	0.0
-7.5°	58.1	43.3	34.1	27.1	22.1	18.0	0.0
-10°	57.6	43.1	33.9	27.0	22.1	17.9	0.0
-12.5°	57.0	42.8	33.6	26.8	22.0	17.8	0.0
-15°	56.1	42.4	33.3	26.7	21.9	17.6	0.0
-17.5°	55.1	41.8	33.0	26.5	21.8	17.4	0.0
-20°	53.9	41.2	32.6	26.3	21.7	17.1	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	52.5	40.5	32.1	26.1	21.6	16.8	0.0
-25°	51.0	39.6	31.6	25.8	21.4	16.5	0.0
-27.5°	49.3	38.6	31.1	25.5	21.3	16.1	0.0
-30°	47.4	37.5	30.5	25.2	21.1	15.8	0.0
-32.5°	45.4	36.3	29.8	24.8	20.9	15.3	0.0
-35°	43.6	35.0	29.1	24.5	20.8	14.9	0.0
-37.5°	42.0	33.7	28.4	24.1	20.5	14.4	0.0
-40°	40.2	32.8	27.6	23.7	20.3	13.9	0.0
-42.5°	38.2	31.7	26.9	23.2	20.1	13.4	0.0
-45°	36.2	30.7	26.3	22.8	19.9	12.9	0.0
-47.5°	34.0	29.6	25.6	22.3	19.6	12.3	0.0
-50°	32.5	28.5	24.9	21.8	19.3	11.7	0.0
-52.5°	31.2	27.4	24.2	21.4	19.1	11.1	0.0
-55°	29.8	26.4	23.4	21.0	18.8	10.4	0.0
-57.5°	28.4	25.4	22.6	20.5	18.5	9.8	0.0
-60°	27.1	24.3	21.8	20.0	18.2	9.1	0.0
-62.5°	25.7	23.2	21.2	19.6	16.8	8.4	0.0
-65°	24.3	22.1	20.5	19.1	15.4	7.7	0.0
-67.5°	22.9	21.1	19.9	18.6	13.9	7.0	0.0
-70°	21.5	20.3	19.2	18.1	12.4	6.2	0.0
-72.5°	20.4	19.5	18.5	16.2	10.9	5.5	0.0
-75°	19.4	18.6	17.9	13.9	9.4	4.7	0.0
-77.5°	18.4	17.8	15.3	11.6	7.9	3.9	0.0
-80°	17.3	15.1	12.2	9.3	6.3	3.2	0.0
-82.5°	13.3	11.3	9.2	7.0	4.7	2.4	0.0
-85°	8.9	7.5	6.1	4.7	3.2	1.6	0.0
-87.5°	4.5	3.8	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)