

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: P699873 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-40-80-3L-S**

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-08
Report Number: P699873 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-54)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-40-80-3L-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 80 CRI LEDS AND 3L BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

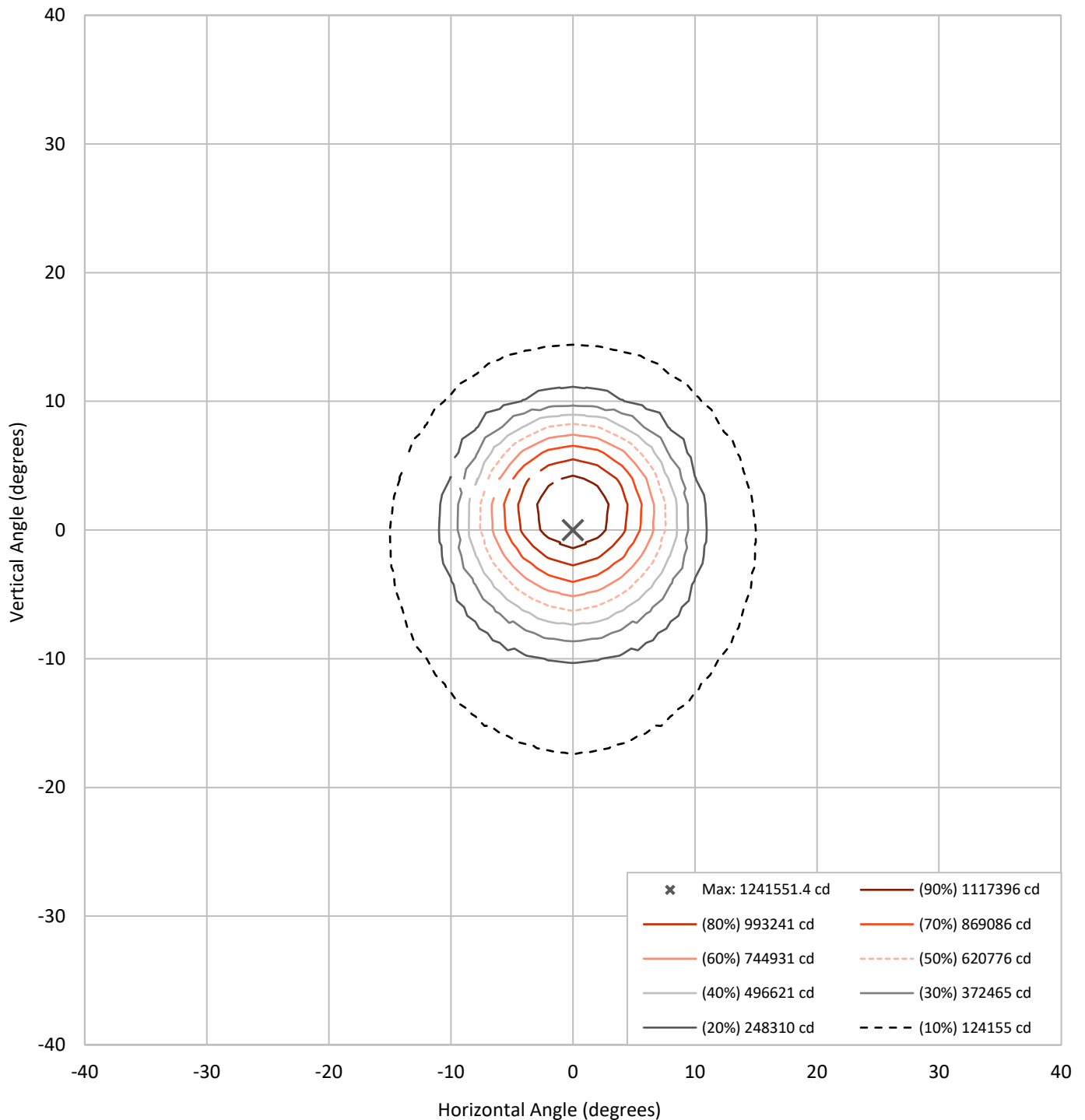
Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	162659.3 lumens	Max Intensity:	1241551.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	129.5 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		

Beam Angle (50%):	15.2°H x 14.5°V	Field Angle (10%):	29.6°H x 31.5°V
Beam Lumens:	45351.7 lumens	Field Lumens:	90506.7 lumens
Beam Efficiency:	27.9%	Field Efficiency:	55.6%

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





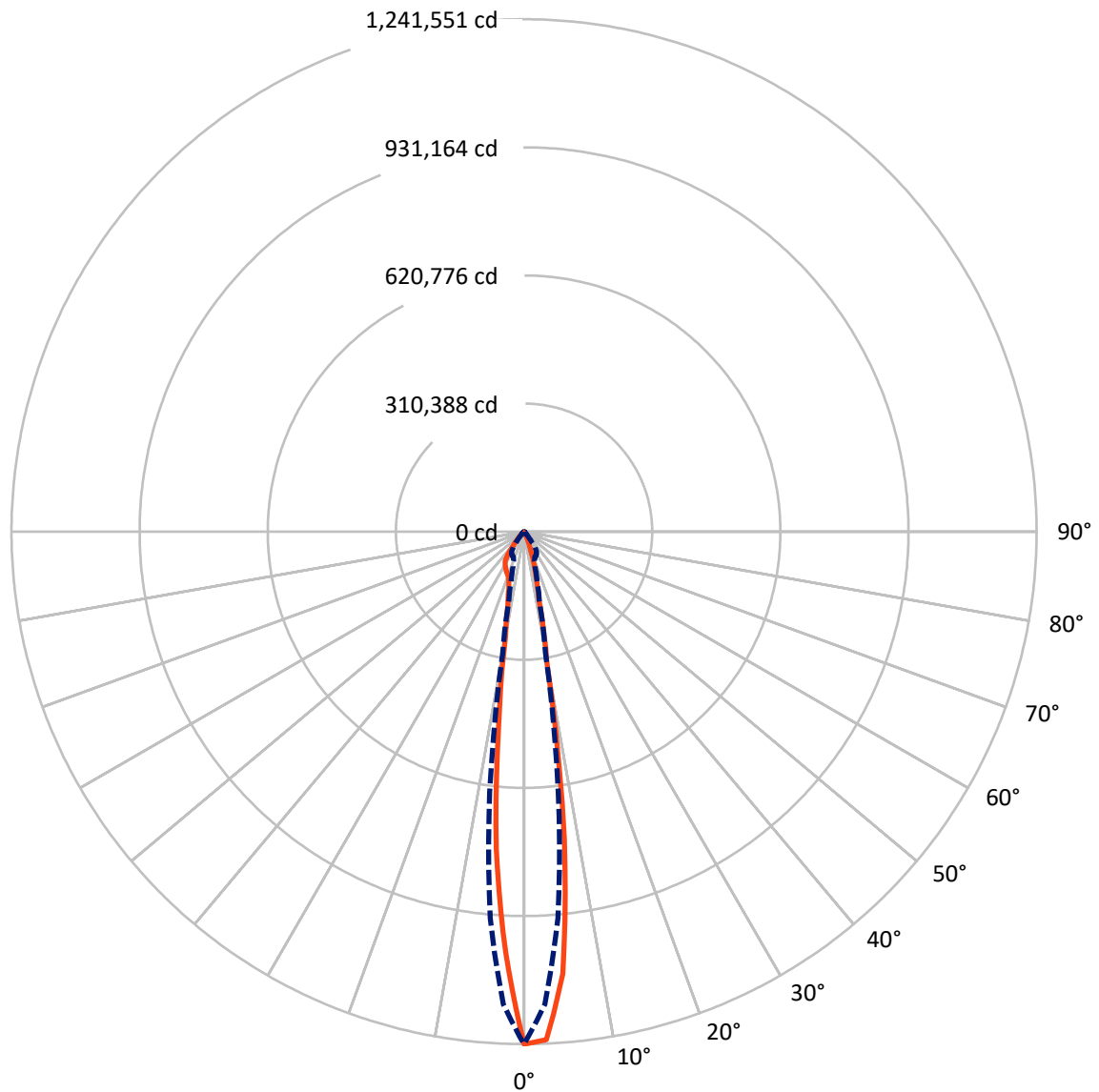
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Lumen Table

90	0.3	1.3		2.3		3.2		3.5		3.2		2.3		1.3		0.3			
80	0.3	1.3		2.3		3.2		3.5		3.2		2.3		1.3		0.3			
70	0.6	0.5	0.7	1.1	1.8	2.4	3.0	3.5	3.5	3.0	2.4	1.8	1.1	0.7	0.5	0.6			
60		0.6	1.0	2.1	3.6	6.3	12.2	25.5	25.5	12.2	6.3	3.6	2.1	1.0	0.6				
50	0.7	0.7	1.8	4.4	9.4	16.0	23.3	33.9	33.9	23.3	16.0	9.4	4.4	1.8	0.7	0.7			
40		1.0	3.4	9.2	17.6	28.4	44.8	62.9	62.9	44.8	28.4	17.6	9.2	3.4	1.0				
30	0.9	1.4	5.8	17.0	63.7	230.2	392.9	509.9	509.9	392.9	230.2	63.7	17.0	5.8	1.4	0.9			
20		1.8	9.4	43.3	381.1	1023.4	1698.5	3320.1	3320.1	1698.5	1023.4	381.1	43.3	9.4	1.8				
10	0.9	2.1	14.7	107.3	856.9	1640.5	3475.8	20155.1	20155.1	3475.8	1640.5	856.9	107.3	14.7	2.1	0.9			
0		2.4	19.5	161.9	1131.6	1979.6	3704.3	16189.8	16189.8	3704.3	1979.6	1131.6	161.9	19.5	2.4				
-10	0.9	2.4	17.1	142.3	993.3	2247.1	2914.3	4263.9	4263.9	2914.3	2247.1	993.3	142.3	17.1	2.4	0.9			
-20		1.8	10.6	72.7	505.1	1820.8	2710.6	3029.7	3029.7	2710.6	1820.8	505.1	72.7	10.6	1.8				
-30	0.7	1.2	5.8	23.3	151.0	642.5	1413.7	1921.4	1921.4	1413.7	642.5	151.0	23.3	5.8	1.2	0.7			
-40		0.8	2.9	7.9	27.5	117.7	279.9	409.1	409.1	279.9	117.7	27.5	7.9	2.9	0.8				
-50	0.6	0.6	1.3	3.4	6.5	12.4	27.0	40.0	40.0	27.0	12.4	6.5	3.4	1.3	0.6	0.6			
-60		0.4	0.8	1.4	2.3	3.6	4.9	5.4	5.4	4.9	3.6	2.3	1.4	0.8	0.4				
-70	0.3	0.3	1.2	2.2	3.1	3.4	3.1	2.2	1.2	0.3	0.3	1.2	2.2	3.1	3.4	3.1	2.2	1.2	0.3
-80		0.3	1.2	2.2	3.1	3.4	3.1	2.2	1.2	0.3	0.3	1.2	2.2	3.1	3.4	3.1	2.2	1.2	0.3
-90	0.3	1.2		2.2		3.1		3.4		3.1		2.2		1.2		0.3			

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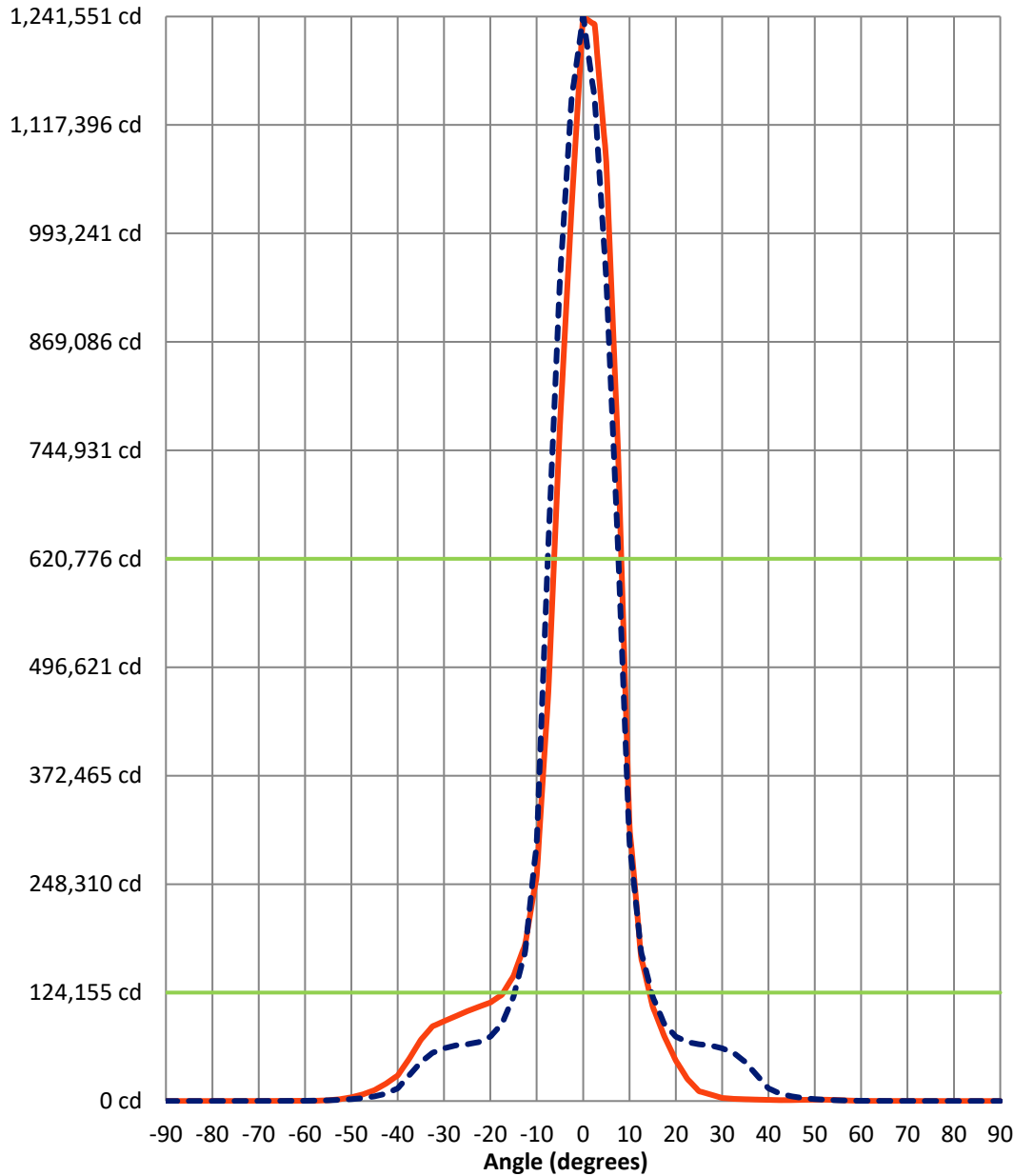
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 15.2°
 V Angle: 14.5°
 Lumens: 45351.7
 Efficiency: 27.9%

Field:
 H Angle: 29.6°
 V Angle: 31.5°
 Lumens: 90506.7
 Efficiency: 55.6%

Spill:
 Lumens: 72152.7
 Efficiency: 44.4%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	7.9
85°	0.0	1.6	3.3	4.9	6.5	8.1	9.7	11.2	12.8	14.3	15.8
82.5°	0.0	2.4	4.9	7.3	9.7	12.1	14.5	16.8	18.9	20.1	21.2
80°	0.0	3.2	6.5	9.7	12.9	16.1	19.0	20.6	22.1	23.6	25.1
77.5°	0.0	4.0	8.1	12.1	16.1	19.4	21.4	23.3	25.3	27.2	28.1
75°	0.0	4.8	9.7	14.5	19.0	21.4	23.7	26.1	28.1	28.1	28.1
72.5°	0.0	5.6	11.2	16.8	20.6	23.3	26.1	28.1	28.1	28.1	28.1
70°	0.0	6.4	12.8	18.9	22.1	25.3	28.1	28.1	28.1	28.2	31.1
67.5°	0.0	7.2	14.3	20.1	23.6	27.2	28.1	28.1	28.2	31.6	34.9
65°	0.0	7.9	15.8	21.2	25.1	28.1	28.1	28.1	31.1	34.9	37.5
62.5°	0.0	8.6	17.3	22.3	26.6	28.1	28.1	29.9	34.1	37.5	37.5
60°	0.0	9.3	18.7	23.4	28.0	28.1	28.1	32.4	36.9	37.5	37.5
57.5°	0.0	10.0	19.4	24.4	28.1	28.1	30.0	34.9	37.5	37.5	39.8
55°	0.0	10.7	20.1	25.4	28.1	28.1	32.0	37.2	37.5	38.2	43.2
52.5°	0.0	11.4	20.7	26.4	28.1	28.4	34.0	37.5	37.5	41.1	46.5
50°	0.0	12.0	21.4	27.4	28.1	30.0	35.9	37.5	38.2	44.0	48.3
47.5°	0.0	12.6	22.0	28.1	28.1	31.5	37.5	37.5	40.7	46.7	50.4
45°	0.0	13.2	22.6	28.1	28.1	33.0	37.5	37.5	43.1	49.1	52.9
42.5°	0.0	13.8	23.2	28.1	28.1	34.4	37.5	38.6	45.3	51.7	56.9
40°	0.0	14.3	23.7	28.1	28.6	35.8	37.5	40.5	47.5	54.5	60.7
37.5°	0.0	14.8	24.2	28.1	29.7	37.1	37.5	42.3	49.6	56.9	63.9
35°	0.0	15.3	24.7	28.1	30.6	37.5	37.5	44.0	51.6	59.1	67.5
32.5°	0.0	15.8	25.1	28.1	31.6	37.5	37.9	45.7	53.4	61.2	72.5
30°	0.0	16.2	25.6	28.1	32.4	37.5	39.2	47.2	55.2	63.2	77.6
27.5°	0.0	16.6	26.0	28.1	33.2	37.5	40.4	48.6	56.8	65.0	82.8
25°	0.0	16.9	26.3	28.1	33.9	37.5	41.5	49.9	58.3	68.4	88.3
22.5°	0.0	17.3	26.7	28.1	34.6	37.5	42.5	51.0	59.7	72.5	97.9
20°	0.0	17.6	27.0	28.1	35.2	37.5	43.4	52.1	60.9	76.5	106.7
17.5°	0.0	17.8	27.2	28.1	35.7	37.5	44.2	53.1	62.0	80.3	114.7
15°	0.0	18.1	27.5	28.1	36.2	37.5	44.9	53.9	62.9	83.9	121.8
12.5°	0.0	18.3	27.7	28.1	36.6	37.5	45.4	54.6	64.5	87.3	128.0
10°	0.0	18.4	27.8	28.1	36.9	37.5	45.9	55.2	66.7	89.9	133.5
7.5°	0.0	18.5	27.9	28.1	37.2	37.5	46.3	55.6	68.9	91.7	138.8
5°	0.0	18.6	28.0	28.1	37.4	37.5	46.6	55.9	71.1	92.9	143.4
2.5°	0.0	18.7	28.1	28.1	37.5	37.5	46.7	56.1	73.2	93.5	147.2
0°	0.0	18.7	28.1	28.1	37.5	37.5	46.8	56.2	75.0	93.7	149.9
-2.5°	0.0	18.7	28.1	28.1	37.5	37.5	46.7	56.1	74.9	95.5	155.8
-5°	0.0	18.6	28.0	28.1	37.4	37.5	46.6	55.9	74.4	96.8	160.3
-7.5°	0.0	18.5	27.9	28.1	37.2	37.5	46.3	55.6	73.7	97.5	163.2
-10°	0.0	18.4	27.8	28.1	36.9	37.5	45.9	55.2	72.6	97.6	164.0
-12.5°	0.0	18.3	27.7	28.1	36.6	37.5	45.4	54.6	71.3	96.8	159.6
-15°	0.0	18.1	27.5	28.1	36.2	37.5	44.9	53.9	69.7	94.0	152.0
-17.5°	0.0	17.8	27.2	28.1	35.7	37.5	44.2	53.1	67.8	90.8	142.6
-20°	0.0	17.6	27.0	28.1	35.2	37.5	43.4	52.1	65.6	87.1	131.4



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 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3L-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	17.3	26.7	28.1	34.6	37.5	42.5	51.0	63.1	82.9	118.5
-25°	0.0	16.9	26.3	28.1	33.9	37.3	41.5	49.9	60.4	78.3	103.8
-27.5°	0.0	16.6	26.0	28.1	33.2	37.0	40.4	48.6	57.4	73.8	97.7
-30°	0.0	16.2	25.6	28.1	32.4	36.7	39.2	47.2	55.2	70.1	91.5
-32.5°	0.0	15.8	25.1	28.1	31.4	36.2	37.9	45.7	53.4	66.2	84.9
-35°	0.0	15.3	24.7	28.1	30.5	35.6	37.1	44.0	51.6	62.0	77.9
-37.5°	0.0	14.8	24.2	28.1	29.5	34.7	36.5	42.3	49.6	57.5	71.9
-40°	0.0	14.3	23.7	28.1	28.6	33.4	35.6	40.5	47.5	54.5	66.6
-42.5°	0.0	13.8	23.2	28.1	28.1	32.2	34.5	38.6	45.3	52.0	61.1
-45°	0.0	13.2	22.6	28.1	28.1	31.1	33.3	36.9	43.1	49.4	55.8
-47.5°	0.0	12.6	22.0	28.1	28.1	30.1	31.9	35.1	40.7	46.7	52.8
-50°	0.0	12.0	21.4	27.4	28.1	29.1	30.8	33.1	38.2	44.0	49.7
-52.5°	0.0	11.4	20.7	26.4	28.1	28.2	29.9	30.9	35.7	41.1	46.5
-55°	0.0	10.7	20.1	25.4	28.1	28.1	29.1	28.6	33.0	38.2	43.2
-57.5°	0.0	10.0	19.4	24.4	28.1	28.1	28.5	28.2	30.3	35.1	39.8
-60°	0.0	9.3	18.7	23.4	28.0	28.1	28.1	28.1	28.1	32.0	36.4
-62.5°	0.0	8.6	17.3	22.3	26.6	28.1	28.1	28.1	28.1	28.8	32.8
-65°	0.0	7.9	15.8	21.2	25.1	28.1	28.1	28.0	28.1	28.1	29.2
-67.5°	0.0	7.2	14.3	20.1	23.6	27.2	28.1	27.7	28.1	28.1	28.1
-70°	0.0	6.4	12.8	18.9	22.1	25.3	28.1	27.2	27.0	28.1	28.1
-72.5°	0.0	5.6	11.2	16.8	20.6	23.3	26.1	26.6	25.6	25.9	27.4
-75°	0.0	4.8	9.7	14.5	19.0	21.4	23.7	24.7	24.1	23.5	23.9
-77.5°	0.0	4.0	8.1	12.1	16.1	19.4	21.4	22.4	22.3	21.2	20.1
-80°	0.0	3.2	6.5	9.7	12.9	16.1	19.0	20.1	20.5	20.1	18.9
-82.5°	0.0	2.4	4.9	7.3	9.7	12.1	14.5	16.8	18.8	19.1	18.7
-85°	0.0	1.6	3.3	4.9	6.5	8.1	9.7	11.2	12.8	14.3	15.8
-87.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	7.9
-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):

	-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°	8.6	9.3	10.0	10.7	11.4	12.0	12.6	13.2	13.8	14.3	14.8
85°	17.3	18.7	18.9	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
82.5°	21.5	21.1	20.3	18.9	18.7	18.7	18.9	19.8	20.2	20.2	19.7
80°	24.9	23.7	22.4	21.7	22.7	24.0	25.2	26.4	25.7	24.1	22.6
77.5°	26.8	26.0	26.0	26.8	28.1	28.1	28.1	28.1	27.5	27.4	27.8
75°	27.7	28.0	28.7	28.5	28.1	28.1	28.4	30.2	31.3	31.3	30.5
72.5°	29.7	30.8	30.6	29.3	30.2	32.4	34.6	36.7	36.7	36.3	37.7
70°	33.4	33.9	33.3	33.8	35.7	37.5	37.5	37.5	38.0	41.7	46.8
67.5°	36.9	35.8	36.2	37.6	37.5	37.5	37.5	42.1	48.0	53.3	56.9
65°	37.4	37.2	38.7	39.0	37.7	41.0	46.2	52.8	58.4	61.4	64.1
62.5°	37.5	40.0	41.3	41.3	42.8	47.3	54.7	60.8	65.2	70.9	76.7
60°	40.7	43.7	44.0	44.9	48.5	56.7	64.0	69.8	76.8	84.5	90.8
57.5°	44.4	46.1	45.9	50.2	58.8	66.4	71.7	78.8	89.1	97.9	105.5
55°	47.1	46.7	50.2	59.6	67.2	71.7	79.9	92.8	103.3	115.3	124.9
52.5°	48.1	48.8	58.8	67.2	72.2	81.3	95.3	109.9	124.4	137.5	151.0
50°	49.6	56.7	66.4	71.7	81.9	98.0	114.1	131.7	150.8	167.5	188.6
47.5°	54.6	63.9	70.4	79.2	98.7	118.1	137.0	161.4	183.6	212.4	243.1
45°	60.2	69.0	75.0	95.6	117.8	140.9	168.5	196.1	228.0	264.5	313.5
42.5°	65.1	74.0	89.7	112.4	139.9	170.1	202.9	237.8	276.0	328.6	391.9
40°	70.0	79.7	106.4	134.1	164.6	203.0	244.0	284.4	333.0	402.6	478.7
37.5°	75.3	95.1	124.2	156.3	195.4	240.4	287.0	342.6	407.0	482.5	564.9
35°	80.9	110.6	144.6	183.0	228.3	281.8	340.7	408.2	492.8	569.8	646.4
32.5°	91.5	126.0	164.8	213.8	268.0	327.2	394.7	490.7	581.1	661.9	717.6
30°	104.8	143.7	187.2	245.0	307.7	380.9	468.0	573.9	668.8	747.3	806.7
27.5°	117.2	161.2	215.0	279.2	349.1	436.9	554.4	656.9	753.4	841.1	915.2
25°	128.7	178.0	242.5	313.5	399.8	510.3	646.2	769.9	848.4	958.4	1161.0
22.5°	141.0	195.0	267.3	346.6	451.1	590.2	754.3	914.2	1045.2	1135.2	1519.2
20°	154.5	215.8	293.1	383.9	504.6	670.4	874.4	1089.7	1315.0	1707.2	2626.6
17.5°	167.4	234.9	320.8	433.0	585.2	778.8	1008.8	1291.8	1638.6	2431.1	4517.8
15°	179.7	252.2	348.3	483.4	675.6	934.5	1249.2	1600.9	2162.7	3539.5	6808.2
12.5°	191.1	267.5	375.2	534.1	770.5	1105.3	1541.9	2122.4	3088.3	5431.1	11282.7
10°	201.5	280.9	400.8	583.8	867.0	1285.4	1860.7	2719.9	4182.5	7523.1	15777.3
7.5°	208.1	290.3	425.3	631.1	962.0	1468.0	2192.9	3364.4	5308.4	9501.7	20095.6
5°	212.3	295.6	451.9	700.3	1093.6	1680.9	2544.1	4024.4	6423.6	11321.0	24079.5
2.5°	214.7	298.7	476.2	770.3	1245.7	1936.9	2964.4	4739.2	7486.1	13043.9	27278.8
0°	215.5	299.8	496.6	833.9	1386.7	2173.8	3354.4	5396.9	8442.1	14569.9	29505.2
-2.5°	229.3	333.6	538.5	881.1	1459.7	2323.0	3637.1	5909.1	9496.0	16284.3	31195.2
-5°	241.1	363.8	574.3	917.6	1511.3	2434.6	3855.8	6300.2	10269.2	17380.5	31685.6
-7.5°	250.3	388.9	603.4	936.8	1517.7	2451.8	3910.1	6383.0	10480.1	17580.1	30928.1
-10°	255.4	393.9	589.3	903.3	1464.6	2389.0	3855.3	6302.8	10379.8	17247.1	29328.0
-12.5°	250.5	382.0	563.9	857.7	1385.4	2273.8	3700.9	6043.0	9928.7	16334.9	26762.2
-15°	242.3	367.2	534.6	799.9	1278.9	2102.0	3437.5	5588.4	9003.7	14398.4	22587.6
-17.5°	230.5	349.7	502.0	729.5	1144.1	1870.6	3031.6	4825.5	7821.5	12634.1	19861.4
-20°	215.1	329.6	466.5	646.6	994.7	1609.8	2604.3	4198.4	6777.4	10828.3	16793.8



REPORT NUMBER: P699873 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3L-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	195.7	307.4	433.3	592.2	868.0	1358.6	2171.9	3467.9	5522.0	8694.6	13816.5
-25°	176.4	284.6	404.3	531.8	735.5	1092.2	1702.4	2688.0	4400.3	7151.4	11267.5
-27.5°	158.8	256.9	363.7	471.6	605.6	848.7	1343.6	2145.9	3435.4	5435.9	8543.9
-30°	139.1	221.2	322.5	415.3	525.0	705.2	1026.4	1574.2	2484.2	4098.9	6499.9
-32.5°	117.2	185.4	281.0	368.8	459.2	569.0	753.2	1175.8	1834.6	2814.1	4559.4
-35°	100.0	159.7	239.4	322.7	396.7	480.9	615.5	838.0	1237.1	1964.8	3145.7
-37.5°	91.7	132.5	197.9	277.1	347.2	416.0	481.8	630.3	881.6	1252.4	2127.1
-40°	83.0	103.8	164.0	232.2	301.0	359.7	417.0	482.0	614.8	903.4	1310.4
-42.5°	74.3	93.3	131.3	187.5	253.2	313.3	358.0	401.7	464.8	606.0	886.3
-45°	67.9	82.9	101.2	150.3	202.0	265.0	313.4	345.7	380.4	429.8	567.0
-47.5°	61.3	73.1	89.6	114.6	158.5	207.1	266.7	305.3	329.6	354.1	370.8
-50°	55.3	65.6	78.2	96.4	123.0	158.0	201.8	257.8	292.9	310.0	324.3
-52.5°	51.8	57.9	69.2	83.7	100.6	124.0	151.9	187.8	238.2	278.2	290.6
-55°	48.1	53.1	60.0	72.1	86.6	102.2	118.9	142.2	163.1	207.8	249.4
-57.5°	44.4	49.0	53.5	60.5	72.9	86.6	98.7	110.5	128.8	146.3	169.2
-60°	40.7	44.9	49.0	53.1	58.6	70.7	81.7	92.2	102.6	112.8	128.7
-62.5°	36.8	40.7	44.4	48.1	51.8	56.7	66.6	76.0	83.5	92.3	101.0
-65°	32.8	36.4	39.8	43.2	46.5	50.3	55.6	62.2	70.3	76.0	81.2
-67.5°	28.8	32.0	35.1	38.2	40.9	43.2	46.7	51.5	57.2	62.2	66.9
-70°	28.1	28.1	30.3	33.0	35.1	35.4	37.2	40.0	44.0	48.2	52.4
-72.5°	28.1	28.1	28.1	28.1	29.9	30.8	30.6	29.3	31.4	36.5	40.6
-75°	25.7	27.9	28.1	28.1	27.6	27.5	28.2	28.3	28.7	30.3	32.6
-77.5°	21.5	23.3	25.0	26.7	26.4	24.8	24.0	23.9	25.0	26.4	27.7
-80°	18.7	18.7	20.0	21.4	21.9	21.6	20.6	19.0	18.7	19.2	20.3
-82.5°	18.7	18.7	18.7	18.7	18.7	18.7	18.8	18.7	18.7	18.7	18.7
-85°	17.3	18.7	18.7	18.7	18.7	18.7	18.7	18.7	17.5	16.6	15.9
-87.5°	8.6	9.3	10.0	10.7	11.4	12.0	12.6	13.2	12.1	10.8	9.3
-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: P699873 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3L-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°	15.3	13.8	12.2	10.4	8.5	8.7	8.8	9.0	9.1	6.9	4.6
85°	18.7	18.0	17.5	17.1	17.0	15.4	13.5	11.6	9.4	9.3	9.3
82.5°	18.8	18.7	18.7	18.7	18.7	18.2	17.9	17.7	17.8	18.0	18.3
80°	21.5	22.2	23.0	23.8	24.5	25.2	25.8	26.3	26.8	27.2	27.5
77.5°	28.2	28.5	29.4	30.9	32.8	33.9	34.6	35.3	35.9	36.4	36.8
75°	28.9	30.3	34.7	38.2	41.1	42.5	43.4	44.2	44.9	45.4	45.9
72.5°	40.8	44.6	47.2	48.6	49.9	51.0	52.1	53.1	53.9	54.6	55.2
70°	50.8	53.4	55.2	56.8	58.3	60.1	62.7	65.7	69.1	71.3	72.6
67.5°	59.1	61.2	63.2	65.0	67.8	71.4	75.5	78.6	80.9	83.3	86.3
65°	67.5	72.2	76.6	80.7	84.5	87.9	91.1	93.8	96.3	98.6	100.7
62.5°	82.2	87.5	92.4	96.9	101.1	105.9	111.1	115.8	119.8	123.9	129.0
60°	96.9	102.7	108.4	115.0	122.6	130.9	139.9	149.6	159.9	170.4	179.4
57.5°	113.4	119.2	125.8	139.4	152.1	164.0	183.7	211.9	242.6	276.8	336.8
55°	134.9	146.0	156.2	179.7	206.6	233.0	266.3	323.5	387.7	456.6	605.0
52.5°	164.0	189.6	214.7	245.9	290.5	335.3	384.1	469.1	559.2	652.1	839.9
50°	219.4	252.8	294.7	338.8	392.9	448.2	503.3	596.6	689.7	780.4	950.6
47.5°	288.2	335.4	387.0	435.4	495.5	550.2	598.1	672.1	751.8	820.2	930.1
45°	367.5	429.4	485.2	535.3	589.4	636.1	672.7	714.7	774.8	816.0	863.5
42.5°	460.6	522.5	579.9	627.5	670.4	712.3	747.0	776.3	821.2	863.0	899.8
40°	549.3	609.6	661.1	708.5	749.4	790.1	847.4	896.7	950.6	1023.6	1095.7
37.5°	633.7	686.7	735.0	782.0	844.2	914.5	982.9	1063.2	1154.5	1286.1	1418.1
35°	708.6	758.9	805.6	872.6	955.7	1038.7	1141.9	1293.0	1436.1	1599.2	1763.5
32.5°	775.7	834.3	900.9	985.9	1092.7	1292.7	1384.0	1595.7	1723.3	1928.3	2160.6
30°	844.9	943.1	1158.6	1285.5	1560.7	1938.4	1981.0	2198.4	2468.1	2644.8	3149.7
27.5°	1032.9	1298.8	1795.9	2701.4	2887.7	3431.6	4062.9	3791.7	4989.4	4816.9	6516.5
25°	1537.5	2133.2	4065.5	5813.5	6618.2	7312.7	8869.1	9345.6	11503.6	12867.5	13227.4
22.5°	2695.8	5286.5	8083.8	10551.2	12828.8	14688.9	16693.1	19649.7	20976.0	21646.5	22229.6
20°	4854.5	9592.0	13858.6	17395.1	20650.6	23767.8	27443.7	29637.4	31029.2	33903.4	36871.0
17.5°	9420.7	15233.3	20460.9	24894.9	29183.6	34027.5	37106.8	39601.6	43374.0	48519.5	54379.5
15°	14727.3	21591.9	27403.9	32748.2	38207.0	42906.9	45900.5	49767.3	55853.9	63820.2	73837.4
12.5°	20335.1	27940.0	34213.7	40139.6	46859.0	50053.6	53450.4	59099.8	67574.0	79084.3	99519.6
10°	25869.3	33912.5	40616.5	46936.8	52395.3	55645.7	59509.9	66212.7	79426.0	100727.6	130730.5
7.5°	31314.4	39859.9	46560.8	52660.8	56695.4	59574.0	64459.7	74041.2	92399.2	121868.5	168262.3
5°	36538.6	45484.0	51835.7	57081.5	59889.2	62639.8	68231.4	80576.2	105832.5	146058.0	225548.4
2.5°	41076.9	50617.7	56428.0	60648.5	62517.7	65144.8	71374.6	85369.6	115043.1	165235.4	290436.8
0°	44571.7	55112.6	60359.6	63676.5	65007.0	67536.8	73852.0	88515.6	119819.8	171728.0	297506.8
-2.5°	47113.2	58701.2	63840.7	66708.5	67903.5	70049.4	75983.2	89423.7	118745.6	167778.0	276928.0
-5°	48226.9	60907.7	66849.7	69858.3	71270.9	73154.5	78146.5	89878.6	114052.9	151823.2	221109.1
-7.5°	47831.8	61935.9	69453.8	72906.6	74652.9	76518.0	80537.0	89319.7	106544.9	133986.2	176817.9
-10°	46003.0	61864.2	71512.2	75711.7	78222.8	80144.9	82858.2	88079.6	99153.1	119049.9	144108.1
-12.5°	42680.6	60271.9	73022.9	78113.2	81361.0	83678.1	86226.4	90097.5	96290.9	105678.1	123893.0
-15°	38270.9	56459.4	71213.1	79115.5	83414.4	86859.2	89649.6	92129.5	96203.7	102049.9	110236.8
-17.5°	32922.3	50316.6	66992.5	79207.4	84622.7	88738.6	91792.6	94733.7	97299.9	101148.3	104952.2
-20°	26019.2	42683.8	60547.8	74705.6	83677.8	88757.3	92764.7	95641.7	98279.9	100726.8	103270.0



REPORT NUMBER: P699873 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3L-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	21340.4	34310.4	50880.8	68084.4	79223.4	86552.9	91516.1	94617.8	97539.0	99328.1	101292.2
-25°	17143.8	25441.9	40327.8	56036.2	70804.3	81040.8	87645.3	91851.1	94465.9	96543.5	98025.2
-27.5°	13404.8	20211.5	29348.9	43679.2	57914.8	70452.1	79362.5	87102.3	89816.3	92387.4	93709.6
-30°	9782.1	15121.8	22391.1	31239.3	43491.3	54843.2	65734.5	74402.2	81188.3	86181.7	88068.9
-32.5°	7209.2	10637.1	16118.9	22867.7	29364.1	39213.0	48659.4	57556.9	65742.0	72453.5	77231.6
-35°	4917.4	7470.9	10534.2	15674.0	20752.3	26296.2	32313.6	39987.2	46428.6	53801.3	60125.5
-37.5°	3324.3	4974.9	7309.5	10093.3	14108.9	17882.5	21987.6	26065.1	29839.8	35796.1	41044.3
-40°	2169.7	3208.4	4843.8	6753.4	9324.3	11746.0	14793.5	17396.1	20132.8	23361.8	26125.0
-42.5°	1289.6	2052.0	2984.2	4367.0	5916.2	7605.6	9595.1	11462.6	13320.6	15260.5	16990.0
-45°	785.1	1202.0	1745.8	2613.5	3473.5	4672.8	5854.2	6938.8	8341.9	9581.6	10590.5
-47.5°	501.9	654.9	994.1	1417.8	1922.6	2652.6	3364.9	4086.7	4972.0	5762.3	6392.0
-50°	349.3	412.9	551.8	693.3	997.8	1352.7	1695.1	2138.3	2672.6	3158.4	3541.8
-52.5°	301.2	323.8	351.6	403.9	528.4	651.7	772.9	1024.0	1279.6	1508.8	1688.9
-55°	271.2	279.8	287.6	311.2	340.3	370.2	412.8	508.5	600.7	687.6	750.5
-57.5°	204.9	235.3	255.9	265.5	275.7	286.1	306.8	331.6	352.9	370.4	380.9
-60°	143.9	158.2	184.6	208.8	228.7	244.4	257.6	271.4	284.1	293.4	293.3
-62.5°	109.3	120.3	134.3	148.2	161.2	176.2	193.4	209.9	225.5	237.0	240.7
-65°	87.2	94.2	102.2	110.8	120.1	130.9	139.7	148.4	156.7	162.9	165.8
-67.5°	71.4	75.5	79.5	83.1	88.5	94.9	100.4	105.4	109.7	113.4	116.4
-70°	56.4	60.1	63.6	66.8	69.8	72.5	74.9	77.1	79.0	80.6	81.9
-72.5°	43.7	45.7	47.5	50.3	52.9	55.3	57.4	59.3	61.0	62.4	63.5
-75°	35.7	37.9	39.2	40.4	41.5	42.5	43.4	44.2	44.9	45.4	45.9
-77.5°	28.8	28.7	28.3	28.4	28.8	30.2	31.7	33.1	34.2	35.2	36.0
-80°	21.2	21.4	21.0	20.2	18.9	18.1	17.6	17.4	17.4	17.8	18.1
-82.5°	18.7	17.7	16.9	16.4	16.1	14.9	13.3	11.5	9.5	9.2	9.2
-85°	15.4	14.2	12.9	11.3	9.5	9.4	9.4	9.4	9.4	7.1	4.7
-87.5°	7.7	7.9	8.1	8.3	8.5	8.7	8.8	9.0	9.1	6.9	4.6
-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: P699873 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3L-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°	2.3	0.0	0.0	0.0	0.0	0.0	2.3	4.6	6.9	9.1	9.0
85°	9.3	9.3	9.4	9.4	9.4	9.3	9.3	9.3	9.3	9.4	11.6
82.5°	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.3	18.0	17.8	17.7
80°	27.8	28.0	28.1	28.1	28.1	28.0	27.8	27.5	27.2	26.8	26.3
77.5°	37.1	37.3	37.5	37.5	37.5	37.3	37.1	36.8	36.4	35.9	35.3
75°	46.3	46.6	46.7	46.8	46.7	46.6	46.3	45.9	45.4	44.9	44.2
72.5°	55.6	55.9	56.1	56.2	56.1	55.9	55.6	55.2	54.6	53.9	53.1
70°	73.7	74.4	74.9	75.0	74.9	74.4	73.7	72.6	71.3	69.1	65.7
67.5°	89.5	92.7	93.5	93.7	93.5	92.7	89.5	86.3	83.3	80.9	78.6
65°	102.0	102.7	103.0	103.1	103.0	102.7	102.0	100.7	98.6	96.3	93.8
62.5°	133.8	138.2	140.1	140.5	140.1	138.2	133.8	129.0	123.9	119.8	115.8
60°	187.0	193.2	200.0	206.1	200.0	193.2	187.0	179.4	170.4	159.9	149.6
57.5°	403.5	472.5	528.1	571.6	528.1	472.5	403.5	336.8	276.8	242.6	211.9
55°	769.7	939.4	1060.6	1143.1	1060.6	939.4	769.7	605.0	456.6	387.7	323.5
52.5°	1056.2	1273.6	1416.4	1499.2	1416.4	1273.6	1056.2	839.9	652.1	559.2	469.1
50°	1165.2	1377.7	1511.3	1574.1	1511.3	1377.7	1165.2	950.6	780.4	689.7	596.6
47.5°	1083.7	1227.5	1329.9	1396.1	1329.9	1227.5	1083.7	930.1	820.2	751.8	672.1
45°	945.5	1013.8	1056.9	1077.5	1056.9	1013.8	945.5	863.5	816.0	774.8	714.7
42.5°	960.6	1006.5	1031.2	1030.7	1031.2	1006.5	960.6	899.8	863.0	821.2	776.3
40°	1185.1	1266.7	1324.8	1339.9	1324.8	1266.7	1185.1	1095.7	1023.6	950.6	896.7
37.5°	1529.8	1609.4	1656.6	1658.4	1656.6	1609.4	1529.8	1418.1	1286.1	1154.5	1063.2
35°	1899.6	1996.2	2063.7	2052.0	2063.7	1996.2	1899.6	1763.5	1599.2	1436.1	1293.0
32.5°	2309.9	2424.1	2505.4	2520.5	2505.4	2424.1	2309.9	2160.6	1928.3	1723.3	1595.7
30°	3355.2	3536.1	3584.3	3569.9	3584.3	3536.1	3355.2	3149.7	2644.8	2468.1	2198.4
27.5°	7219.5	7548.6	7405.5	7467.7	7405.5	7548.6	7219.5	6516.5	4816.9	4989.4	3791.7
25°	13070.8	12528.8	11845.9	11337.3	11845.9	12528.8	13070.8	13227.4	12867.5	11503.6	9345.6
22.5°	23885.7	24681.8	25293.2	25345.0	25293.2	24681.8	23885.7	22229.6	21646.5	20976.0	19649.7
20°	40757.8	43506.7	45494.8	46473.7	45494.8	43506.7	40757.8	36871.0	33903.4	31029.2	29637.4
17.5°	61561.9	67941.9	71906.6	74461.0	71906.6	67941.9	61561.9	54379.5	48519.5	43374.0	39601.6
15°	87205.5	100179.3	107542.4	108613.6	107542.4	100179.3	87205.5	73837.4	63820.2	55853.9	49767.3
12.5°	120353.7	142898.3	160222.5	165567.4	160222.5	142898.3	120353.7	99519.6	79084.3	67574.0	59099.8
10°	168630.6	223440.8	299720.0	317155.1	299720.0	223440.8	168630.6	130730.5	100727.6	79426.0	66212.7
7.5°	275870.1	480446.8	697241.2	750115.1	697241.2	480446.8	275870.1	168262.3	121868.5	92399.2	74041.2
5°	461367.7	840869.7	#####	#####	#####	840869.7	461367.7	225548.4	146058.0	105832.5	80576.2
2.5°	632576.8	967934.8	#####	#####	#####	967934.8	632576.8	290436.8	165235.4	115043.1	85369.6
0°	636835.4	939818.8	#####	#####	#####	939818.8	636835.4	297506.8	171728.0	119819.8	88515.6
-2.5°	520701.6	787408.8	959623.0	#####	959623.0	787408.8	520701.6	276928.0	167778.0	118745.6	89423.7
-5°	350713.3	555844.7	707362.9	773066.2	707362.9	555844.7	350713.3	221109.1	151823.2	114052.9	89878.6
-7.5°	242251.5	335422.8	439292.5	467909.0	439292.5	335422.8	242251.5	176817.9	133986.2	106544.9	89319.7
-10°	178632.5	213897.1	250523.6	258735.0	250523.6	213897.1	178632.5	144108.1	119049.9	99153.1	88079.6
-12.5°	141907.1	161025.3	177126.3	179593.8	177126.3	161025.3	141907.1	123893.0	105678.1	96290.9	90097.5
-15°	121509.8	132232.0	139327.4	143431.4	139327.4	132232.0	121509.8	110236.8	102049.9	96203.7	92129.5
-17.5°	110882.0	115798.4	119217.1	121815.5	119217.1	115798.4	110882.0	104952.2	101148.3	97299.9	94733.7
-20°	106066.2	108602.2	111052.2	112839.3	111052.2	108602.2	106066.2	103270.0	100726.8	98279.9	95641.7



REPORT NUMBER: P699873 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3L-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	102941.8	104688.5	106213.8	107910.9	106213.8	104688.5	102941.8	101292.2	99328.1	97539.0	94617.8
-25°	99234.1	100548.9	101699.3	102851.2	101699.3	100548.9	99234.1	98025.2	96543.5	94465.9	91851.1
-27.5°	94680.9	95604.8	96283.0	97098.2	96283.0	95604.8	94680.9	93709.6	92387.4	89816.3	87102.3
-30°	89407.2	90308.2	90742.8	91420.2	90742.8	90308.2	89407.2	88068.9	86181.7	81188.3	74402.2
-32.5°	80653.1	82833.0	84194.4	85433.0	84194.4	82833.0	80653.1	77231.6	72453.5	65742.0	57556.9
-35°	64483.0	66997.6	68531.1	70141.6	68531.1	66997.6	64483.0	60125.5	53801.3	46428.6	39987.2
-37.5°	44487.9	46348.9	47374.7	48544.4	47374.7	46348.9	44487.9	41044.3	35796.1	29839.8	26065.1
-40°	27836.5	28926.9	29432.4	29308.4	29432.4	28926.9	27836.5	26125.0	23361.8	20132.8	17396.1
-42.5°	18157.0	18909.3	19465.3	20041.8	19465.3	18909.3	18157.0	16990.0	15260.5	13320.6	11462.6
-45°	11422.5	12080.4	12471.9	12536.7	12471.9	12080.4	11422.5	10590.5	9581.6	8341.9	6938.8
-47.5°	6836.7	7155.0	7424.6	7655.0	7424.6	7155.0	6836.7	6392.0	5762.3	4972.0	4086.7
-50°	3821.8	4020.9	4184.7	4310.1	4184.7	4020.9	3821.8	3541.8	3158.4	2672.6	2138.3
-52.5°	1831.9	1940.6	2028.4	2089.4	2028.4	1940.6	1831.9	1688.9	1508.8	1279.6	1024.0
-55°	799.1	834.0	862.1	880.8	862.1	834.0	799.1	750.5	687.6	600.7	508.5
-57.5°	389.8	396.8	393.8	384.2	393.8	396.8	389.8	380.9	370.4	352.9	331.6
-60°	292.0	289.6	289.9	290.5	289.9	289.6	292.0	293.3	293.4	284.1	271.4
-62.5°	242.1	241.4	242.7	243.6	242.7	241.4	242.1	240.7	237.0	225.5	209.9
-65°	167.2	167.3	168.2	168.7	168.2	167.3	167.2	165.8	162.9	156.7	148.4
-67.5°	118.8	120.4	121.5	121.8	121.5	120.4	118.8	116.4	113.4	109.7	105.4
-70°	83.0	83.7	88.5	93.7	88.5	83.7	83.0	81.9	80.6	79.0	77.1
-72.5°	64.4	65.1	65.5	65.6	65.5	65.1	64.4	63.5	62.4	61.0	59.3
-75°	46.3	46.6	46.7	46.8	46.7	46.6	46.3	45.9	45.4	44.9	44.2
-77.5°	36.7	37.1	37.4	37.5	37.4	37.1	36.7	36.0	35.2	34.2	33.1
-80°	18.4	18.6	23.3	28.1	23.3	18.6	18.4	18.1	17.8	17.4	17.4
-82.5°	9.2	9.3	9.4	9.4	9.4	9.3	9.2	9.2	9.2	9.5	11.5
-85°	2.4	0.0	0.0	0.0	0.0	0.0	2.4	4.7	7.1	9.4	9.4
-87.5°	2.3	0.0	0.0	0.0	0.0	0.0	2.3	4.6	6.9	9.1	9.0
-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: P699873 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3L-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°	8.8	8.7	8.5	10.4	12.2	13.8	15.3	14.8	14.3	13.8	13.2
85°	13.5	15.4	17.0	17.1	17.5	18.0	18.7	18.7	18.7	18.7	18.7
82.5°	17.9	18.2	18.7	18.7	18.7	18.7	18.8	19.7	20.2	20.2	19.8
80°	25.8	25.2	24.5	23.8	23.0	22.2	21.5	22.6	24.1	25.7	26.4
77.5°	34.6	33.9	32.8	30.9	29.4	28.5	28.2	27.8	27.4	27.5	28.1
75°	43.4	42.5	41.1	38.2	34.7	30.3	28.9	30.5	31.3	31.3	30.2
72.5°	52.1	51.0	49.9	48.6	47.2	44.6	40.8	37.7	36.3	36.7	36.7
70°	62.7	60.1	58.3	56.8	55.2	53.4	50.8	46.8	41.7	38.0	37.5
67.5°	75.5	71.4	67.8	65.0	63.2	61.2	59.1	56.9	53.3	48.0	42.1
65°	91.1	87.9	84.5	80.7	76.6	72.2	67.5	64.1	61.4	58.4	52.8
62.5°	111.1	105.9	101.1	96.9	92.4	87.5	82.2	76.7	70.9	65.2	60.8
60°	139.9	130.9	122.6	115.0	108.4	102.7	96.9	90.8	84.5	76.8	69.8
57.5°	183.7	164.0	152.1	139.4	125.8	119.2	113.4	105.5	97.9	89.1	78.8
55°	266.3	233.0	206.6	179.7	156.2	146.0	134.9	124.9	115.3	103.3	92.8
52.5°	384.1	335.3	290.5	245.9	214.7	189.6	164.0	151.0	137.5	124.4	109.9
50°	503.3	448.2	392.9	338.8	294.7	252.8	219.4	188.6	167.5	150.8	131.7
47.5°	598.1	550.2	495.5	435.4	387.0	335.4	288.2	243.1	212.4	183.6	161.4
45°	672.7	636.1	589.4	535.3	485.2	429.4	367.5	313.5	264.5	228.0	196.1
42.5°	747.0	712.3	670.4	627.5	579.9	522.5	460.6	391.9	328.6	276.0	237.8
40°	847.4	790.1	749.4	708.5	661.1	609.6	549.3	478.7	402.6	333.0	284.4
37.5°	982.9	914.5	844.2	782.0	735.0	686.7	633.7	564.9	482.5	407.0	342.6
35°	1141.9	1038.7	955.7	872.6	805.6	758.9	708.6	646.4	569.8	492.8	408.2
32.5°	1384.0	1292.7	1092.7	985.9	900.9	834.3	775.7	717.6	661.9	581.1	490.7
30°	1981.0	1938.4	1560.7	1285.5	1158.6	943.1	844.9	806.7	747.3	668.8	573.9
27.5°	4062.9	3431.6	2887.7	2701.4	1795.9	1298.8	1032.9	915.2	841.1	753.4	656.9
25°	8869.1	7312.7	6618.2	5813.5	4065.5	2133.2	1537.5	1161.0	958.4	848.4	769.9
22.5°	16693.1	14688.9	12828.8	10551.2	8083.8	5286.5	2695.8	1519.2	1135.2	1045.2	914.2
20°	27443.7	23767.8	20650.6	17395.1	13858.6	9592.0	4854.5	2626.6	1707.2	1315.0	1089.7
17.5°	37106.8	34027.5	29183.6	24894.9	20460.9	15233.3	9420.7	4517.8	2431.1	1638.6	1291.8
15°	45900.5	42906.9	38207.0	32748.2	27403.9	21591.9	14727.3	6808.2	3539.5	2162.7	1600.9
12.5°	53450.4	50053.6	46859.0	40139.6	34213.7	27940.0	20335.1	11282.7	5431.1	3088.3	2122.4
10°	59509.9	55645.7	52395.3	46936.8	40616.5	33912.5	25869.3	15777.3	7523.1	4182.5	2719.9
7.5°	64459.7	59574.0	56695.4	52660.8	46560.8	39859.9	31314.4	20095.6	9501.7	5308.4	3364.4
5°	68231.4	62639.8	59889.2	57081.5	51835.7	45484.0	36538.6	24079.5	11321.0	6423.6	4024.4
2.5°	71374.6	65144.8	62517.7	60648.5	56428.0	50617.7	41076.9	27278.8	13043.9	7486.1	4739.2
0°	73852.0	67536.8	65007.0	63676.5	60359.6	55112.6	44571.7	29505.2	14569.9	8442.1	5396.9
-2.5°	75983.2	70049.4	67903.5	66708.5	63840.7	58701.2	47113.2	31195.2	16284.3	9496.0	5909.1
-5°	78146.5	73154.5	71270.9	69858.3	66849.7	60907.7	48226.9	31685.6	17380.5	10269.2	6300.2
-7.5°	80537.0	76518.0	74652.9	72906.6	69453.8	61935.9	47831.8	30928.1	17580.1	10480.1	6383.0
-10°	82858.2	80144.9	78222.8	75711.7	71512.2	61864.2	46003.0	29328.0	17247.1	10379.8	6302.8
-12.5°	86226.4	83678.1	81361.0	78113.2	73022.9	60271.9	42680.6	26762.2	16334.9	9928.7	6043.0
-15°	89649.6	86859.2	83414.4	79115.5	71213.1	56459.4	38270.9	22587.6	14398.4	9003.7	5588.4
-17.5°	91792.6	88738.6	84622.7	79207.4	66992.5	50316.6	32922.3	19861.4	12634.1	7821.5	4825.5
-20°	92764.7	88757.3	83677.8	74705.6	60547.8	42683.8	26019.2	16793.8	10828.3	6777.4	4198.4



REPORT NUMBER: P699873 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3L-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	91516.1	86552.9	79223.4	68084.4	50880.8	34310.4	21340.4	13816.5	8694.6	5522.0	3467.9
-25°	87645.3	81040.8	70804.3	56036.2	40327.8	25441.9	17143.8	11267.5	7151.4	4400.3	2688.0
-27.5°	79362.5	70452.1	57914.8	43679.2	29348.9	20211.5	13404.8	8543.9	5435.9	3435.4	2145.9
-30°	65734.5	54843.2	43491.3	31239.3	22391.1	15121.8	9782.1	6499.9	4098.9	2484.2	1574.2
-32.5°	48659.4	39213.0	29364.1	22867.7	16118.9	10637.1	7209.2	4559.4	2814.1	1834.6	1175.8
-35°	32313.6	26296.2	20752.3	15674.0	10534.2	7470.9	4917.4	3145.7	1964.8	1237.1	838.0
-37.5°	21987.6	17882.5	14108.9	10093.3	7309.5	4974.9	3324.3	2127.1	1252.4	881.6	630.3
-40°	14793.5	11746.0	9324.3	6753.4	4843.8	3208.4	2169.7	1310.4	903.4	614.8	482.0
-42.5°	9595.1	7605.6	5916.2	4367.0	2984.2	2052.0	1289.6	886.3	606.0	464.8	401.7
-45°	5854.2	4672.8	3473.5	2613.5	1745.8	1202.0	785.1	567.0	429.8	380.4	345.7
-47.5°	3364.9	2652.6	1922.6	1417.8	994.1	654.9	501.9	370.8	354.1	329.6	305.3
-50°	1695.1	1352.7	997.8	693.3	551.8	412.9	349.3	324.3	310.0	292.9	257.8
-52.5°	772.9	651.7	528.4	403.9	351.6	323.8	301.2	290.6	278.2	238.2	187.8
-55°	412.8	370.2	340.3	311.2	287.6	279.8	271.2	249.4	207.8	163.1	142.2
-57.5°	306.8	286.1	275.7	265.5	255.9	235.3	204.9	169.2	146.3	128.8	110.5
-60°	257.6	244.4	228.7	208.8	184.6	158.2	143.9	128.7	112.8	102.6	92.2
-62.5°	193.4	176.2	161.2	148.2	134.3	120.3	109.3	101.0	92.3	83.5	76.0
-65°	139.7	130.9	120.1	110.8	102.2	94.2	87.2	81.2	76.0	70.3	62.2
-67.5°	100.4	94.9	88.5	83.1	79.5	75.5	71.4	66.9	62.2	57.2	51.5
-70°	74.9	72.5	69.8	66.8	63.6	60.1	56.4	52.4	48.2	44.0	40.0
-72.5°	57.4	55.3	52.9	50.3	47.5	45.7	43.7	40.6	36.5	31.4	29.3
-75°	43.4	42.5	41.5	40.4	39.2	37.9	35.7	32.6	30.3	28.7	28.3
-77.5°	31.7	30.2	28.8	28.4	28.3	28.7	28.8	27.7	26.4	25.0	23.9
-80°	17.6	18.1	18.9	20.2	21.0	21.4	21.2	20.3	19.2	18.7	19.0
-82.5°	13.3	14.9	16.1	16.4	16.9	17.7	18.7	18.7	18.7	18.7	18.7
-85°	9.4	9.4	9.5	11.3	12.9	14.2	15.4	15.9	16.6	17.5	18.7
-87.5°	8.8	8.7	8.5	8.3	8.1	7.9	7.7	9.3	10.8	12.1	13.2
-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: P699873 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3L-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°	12.6	12.0	11.4	10.7	10.0	9.3	8.6	7.9	7.2	6.4	5.6
85°	18.7	18.7	18.7	18.7	18.9	18.7	17.3	15.8	14.3	12.8	11.2
82.5°	18.9	18.7	18.7	18.9	20.3	21.1	21.5	21.2	20.1	18.9	16.8
80°	25.2	24.0	22.7	21.7	22.4	23.7	24.9	25.1	23.6	22.1	20.6
77.5°	28.1	28.1	28.1	26.8	26.0	26.0	26.8	28.1	27.2	25.3	23.3
75°	28.4	28.1	28.1	28.5	28.7	28.0	27.7	28.1	28.1	28.1	26.1
72.5°	34.6	32.4	30.2	29.3	30.6	30.8	29.7	28.1	28.1	28.1	28.1
70°	37.5	37.5	35.7	33.8	33.3	33.9	33.4	31.1	28.2	28.1	28.1
67.5°	37.5	37.5	37.5	37.6	36.2	35.8	36.9	34.9	31.6	28.2	28.1
65°	46.2	41.0	37.7	39.0	38.7	37.2	37.4	37.5	34.9	31.1	28.1
62.5°	54.7	47.3	42.8	41.3	41.3	40.0	37.5	37.5	37.5	34.1	29.9
60°	64.0	56.7	48.5	44.9	44.0	43.7	40.7	37.5	37.5	36.9	32.4
57.5°	71.7	66.4	58.8	50.2	45.9	46.1	44.4	39.8	37.5	37.5	34.9
55°	79.9	71.7	67.2	59.6	50.2	46.7	47.1	43.2	38.2	37.5	37.2
52.5°	95.3	81.3	72.2	67.2	58.8	48.8	48.1	46.5	41.1	37.5	37.5
50°	114.1	98.0	81.9	71.7	66.4	56.7	49.6	48.3	44.0	38.2	37.5
47.5°	137.0	118.1	98.7	79.2	70.4	63.9	54.6	50.4	46.7	40.7	37.5
45°	168.5	140.9	117.8	95.6	75.0	69.0	60.2	52.9	49.1	43.1	37.5
42.5°	202.9	170.1	139.9	112.4	89.7	74.0	65.1	56.9	51.7	45.3	38.6
40°	244.0	203.0	164.6	134.1	106.4	79.7	70.0	60.7	54.5	47.5	40.5
37.5°	287.0	240.4	195.4	156.3	124.2	95.1	75.3	63.9	56.9	49.6	42.3
35°	340.7	281.8	228.3	183.0	144.6	110.6	80.9	67.5	59.1	51.6	44.0
32.5°	394.7	327.2	268.0	213.8	164.8	126.0	91.5	72.5	61.2	53.4	45.7
30°	468.0	380.9	307.7	245.0	187.2	143.7	104.8	77.6	63.2	55.2	47.2
27.5°	554.4	436.9	349.1	279.2	215.0	161.2	117.2	82.8	65.0	56.8	48.6
25°	646.2	510.3	399.8	313.5	242.5	178.0	128.7	88.3	68.4	58.3	49.9
22.5°	754.3	590.2	451.1	346.6	267.3	195.0	141.0	97.9	72.5	59.7	51.0
20°	874.4	670.4	504.6	383.9	293.1	215.8	154.5	106.7	76.5	60.9	52.1
17.5°	1008.8	778.8	585.2	433.0	320.8	234.9	167.4	114.7	80.3	62.0	53.1
15°	1249.2	934.5	675.6	483.4	348.3	252.2	179.7	121.8	83.9	62.9	53.9
12.5°	1541.9	1105.3	770.5	534.1	375.2	267.5	191.1	128.0	87.3	64.5	54.6
10°	1860.7	1285.4	867.0	583.8	400.8	280.9	201.5	133.5	89.9	66.7	55.2
7.5°	2192.9	1468.0	962.0	631.1	425.3	290.3	208.1	138.8	91.7	68.9	55.6
5°	2544.1	1680.9	1093.6	700.3	451.9	295.6	212.3	143.4	92.9	71.1	55.9
2.5°	2964.4	1936.9	1245.7	770.3	476.2	298.7	214.7	147.2	93.5	73.2	56.1
0°	3354.4	2173.8	1386.7	833.9	496.6	299.8	215.5	149.9	93.7	75.0	56.2
-2.5°	3637.1	2323.0	1459.7	881.1	538.5	333.6	229.3	155.8	95.5	74.9	56.1
-5°	3855.8	2434.6	1511.3	917.6	574.3	363.8	241.1	160.3	96.8	74.4	55.9
-7.5°	3910.1	2451.8	1517.7	936.8	603.4	388.9	250.3	163.2	97.5	73.7	55.6
-10°	3855.3	2389.0	1464.6	903.3	589.3	393.9	255.4	164.0	97.6	72.6	55.2
-12.5°	3700.9	2273.8	1385.4	857.7	563.9	382.0	250.5	159.6	96.8	71.3	54.6
-15°	3437.5	2102.0	1278.9	799.9	534.6	367.2	242.3	152.0	94.0	69.7	53.9
-17.5°	3031.6	1870.6	1144.1	729.5	502.0	349.7	230.5	142.6	90.8	67.8	53.1
-20°	2604.3	1609.8	994.7	646.6	466.5	329.6	215.1	131.4	87.1	65.6	52.1



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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°	2171.9	1358.6	868.0	592.2	433.3	307.4	195.7	118.5	82.9	63.1	51.0
-25°	1702.4	1092.2	735.5	531.8	404.3	284.6	176.4	103.8	78.3	60.4	49.9
-27.5°	1343.6	848.7	605.6	471.6	363.7	256.9	158.8	97.7	73.8	57.4	48.6
-30°	1026.4	705.2	525.0	415.3	322.5	221.2	139.1	91.5	70.1	55.2	47.2
-32.5°	753.2	569.0	459.2	368.8	281.0	185.4	117.2	84.9	66.2	53.4	45.7
-35°	615.5	480.9	396.7	322.7	239.4	159.7	100.0	77.9	62.0	51.6	44.0
-37.5°	481.8	416.0	347.2	277.1	197.9	132.5	91.7	71.9	57.5	49.6	42.3
-40°	417.0	359.7	301.0	232.2	164.0	103.8	83.0	66.6	54.5	47.5	40.5
-42.5°	358.0	313.3	253.2	187.5	131.3	93.3	74.3	61.1	52.0	45.3	38.6
-45°	313.4	265.0	202.0	150.3	101.2	82.9	67.9	55.8	49.4	43.1	36.9
-47.5°	266.7	207.1	158.5	114.6	89.6	73.1	61.3	52.8	46.7	40.7	35.1
-50°	201.8	158.0	123.0	96.4	78.2	65.6	55.3	49.7	44.0	38.2	33.1
-52.5°	151.9	124.0	100.6	83.7	69.2	57.9	51.8	46.5	41.1	35.7	30.9
-55°	118.9	102.2	86.6	72.1	60.0	53.1	48.1	43.2	38.2	33.0	28.6
-57.5°	98.7	86.6	72.9	60.5	53.5	49.0	44.4	39.8	35.1	30.3	28.2
-60°	81.7	70.7	58.6	53.1	49.0	44.9	40.7	36.4	32.0	28.1	28.1
-62.5°	66.6	56.7	51.8	48.1	44.4	40.7	36.8	32.8	28.8	28.1	28.1
-65°	55.6	50.3	46.5	43.2	39.8	36.4	32.8	29.2	28.1	28.1	28.0
-67.5°	46.7	43.2	40.9	38.2	35.1	32.0	28.8	28.1	28.1	28.1	27.7
-70°	37.2	35.4	35.1	33.0	30.3	28.1	28.1	28.1	28.1	27.0	27.2
-72.5°	30.6	30.8	29.9	28.1	28.1	28.1	28.1	27.4	25.9	25.6	26.6
-75°	28.2	27.5	27.6	28.1	28.1	27.9	25.7	23.9	23.5	24.1	24.7
-77.5°	24.0	24.8	26.4	26.7	25.0	23.3	21.5	20.1	21.2	22.3	22.4
-80°	20.6	21.6	21.9	21.4	20.0	18.7	18.7	18.9	20.1	20.5	20.1
-82.5°	18.8	18.7	18.7	18.7	18.7	18.7	18.7	18.7	19.1	18.8	16.8
-85°	18.7	18.7	18.7	18.7	18.7	18.7	17.3	15.8	14.3	12.8	11.2
-87.5°	12.6	12.0	11.4	10.7	10.0	9.3	8.6	7.9	7.2	6.4	5.6
-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°	4.8	4.0	3.2	2.4	1.6	0.8	0.0
85°	9.7	8.1	6.5	4.9	3.3	1.6	0.0
82.5°	14.5	12.1	9.7	7.3	4.9	2.4	0.0
80°	19.0	16.1	12.9	9.7	6.5	3.2	0.0
77.5°	21.4	19.4	16.1	12.1	8.1	4.0	0.0
75°	23.7	21.4	19.0	14.5	9.7	4.8	0.0
72.5°	26.1	23.3	20.6	16.8	11.2	5.6	0.0
70°	28.1	25.3	22.1	18.9	12.8	6.4	0.0
67.5°	28.1	27.2	23.6	20.1	14.3	7.2	0.0
65°	28.1	28.1	25.1	21.2	15.8	7.9	0.0
62.5°	28.1	28.1	26.6	22.3	17.3	8.6	0.0
60°	28.1	28.1	28.0	23.4	18.7	9.3	0.0
57.5°	30.0	28.1	28.1	24.4	19.4	10.0	0.0
55°	32.0	28.1	28.1	25.4	20.1	10.7	0.0
52.5°	34.0	28.4	28.1	26.4	20.7	11.4	0.0
50°	35.9	30.0	28.1	27.4	21.4	12.0	0.0
47.5°	37.5	31.5	28.1	28.1	22.0	12.6	0.0
45°	37.5	33.0	28.1	28.1	22.6	13.2	0.0
42.5°	37.5	34.4	28.1	28.1	23.2	13.8	0.0
40°	37.5	35.8	28.6	28.1	23.7	14.3	0.0
37.5°	37.5	37.1	29.7	28.1	24.2	14.8	0.0
35°	37.5	37.5	30.6	28.1	24.7	15.3	0.0
32.5°	37.9	37.5	31.6	28.1	25.1	15.8	0.0
30°	39.2	37.5	32.4	28.1	25.6	16.2	0.0
27.5°	40.4	37.5	33.2	28.1	26.0	16.6	0.0
25°	41.5	37.5	33.9	28.1	26.3	16.9	0.0
22.5°	42.5	37.5	34.6	28.1	26.7	17.3	0.0
20°	43.4	37.5	35.2	28.1	27.0	17.6	0.0
17.5°	44.2	37.5	35.7	28.1	27.2	17.8	0.0
15°	44.9	37.5	36.2	28.1	27.5	18.1	0.0
12.5°	45.4	37.5	36.6	28.1	27.7	18.3	0.0
10°	45.9	37.5	36.9	28.1	27.8	18.4	0.0
7.5°	46.3	37.5	37.2	28.1	27.9	18.5	0.0
5°	46.6	37.5	37.4	28.1	28.0	18.6	0.0
2.5°	46.7	37.5	37.5	28.1	28.1	18.7	0.0
0°	46.8	37.5	37.5	28.1	28.1	18.7	0.0
-2.5°	46.7	37.5	37.5	28.1	28.1	18.7	0.0
-5°	46.6	37.5	37.4	28.1	28.0	18.6	0.0
-7.5°	46.3	37.5	37.2	28.1	27.9	18.5	0.0
-10°	45.9	37.5	36.9	28.1	27.8	18.4	0.0
-12.5°	45.4	37.5	36.6	28.1	27.7	18.3	0.0
-15°	44.9	37.5	36.2	28.1	27.5	18.1	0.0
-17.5°	44.2	37.5	35.7	28.1	27.2	17.8	0.0
-20°	43.4	37.5	35.2	28.1	27.0	17.6	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	42.5	37.5	34.6	28.1	26.7	17.3	0.0
-25°	41.5	37.3	33.9	28.1	26.3	16.9	0.0
-27.5°	40.4	37.0	33.2	28.1	26.0	16.6	0.0
-30°	39.2	36.7	32.4	28.1	25.6	16.2	0.0
-32.5°	37.9	36.2	31.4	28.1	25.1	15.8	0.0
-35°	37.1	35.6	30.5	28.1	24.7	15.3	0.0
-37.5°	36.5	34.7	29.5	28.1	24.2	14.8	0.0
-40°	35.6	33.4	28.6	28.1	23.7	14.3	0.0
-42.5°	34.5	32.2	28.1	28.1	23.2	13.8	0.0
-45°	33.3	31.1	28.1	28.1	22.6	13.2	0.0
-47.5°	31.9	30.1	28.1	28.1	22.0	12.6	0.0
-50°	30.8	29.1	28.1	27.4	21.4	12.0	0.0
-52.5°	29.9	28.2	28.1	26.4	20.7	11.4	0.0
-55°	29.1	28.1	28.1	25.4	20.1	10.7	0.0
-57.5°	28.5	28.1	28.1	24.4	19.4	10.0	0.0
-60°	28.1	28.1	28.0	23.4	18.7	9.3	0.0
-62.5°	28.1	28.1	26.6	22.3	17.3	8.6	0.0
-65°	28.1	28.1	25.1	21.2	15.8	7.9	0.0
-67.5°	28.1	27.2	23.6	20.1	14.3	7.2	0.0
-70°	28.1	25.3	22.1	18.9	12.8	6.4	0.0
-72.5°	26.1	23.3	20.6	16.8	11.2	5.6	0.0
-75°	23.7	21.4	19.0	14.5	9.7	4.8	0.0
-77.5°	21.4	19.4	16.1	12.1	8.1	4.0	0.0
-80°	19.0	16.1	12.9	9.7	6.5	3.2	0.0
-82.5°	14.5	12.1	9.7	7.3	4.9	2.4	0.0
-85°	9.7	8.1	6.5	4.9	3.3	1.6	0.0
-87.5°	4.8	4.0	3.2	2.4	1.6	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)