

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: P699869 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-40-80-1R-S**

Issue Date: 8/10/2023

Test Information

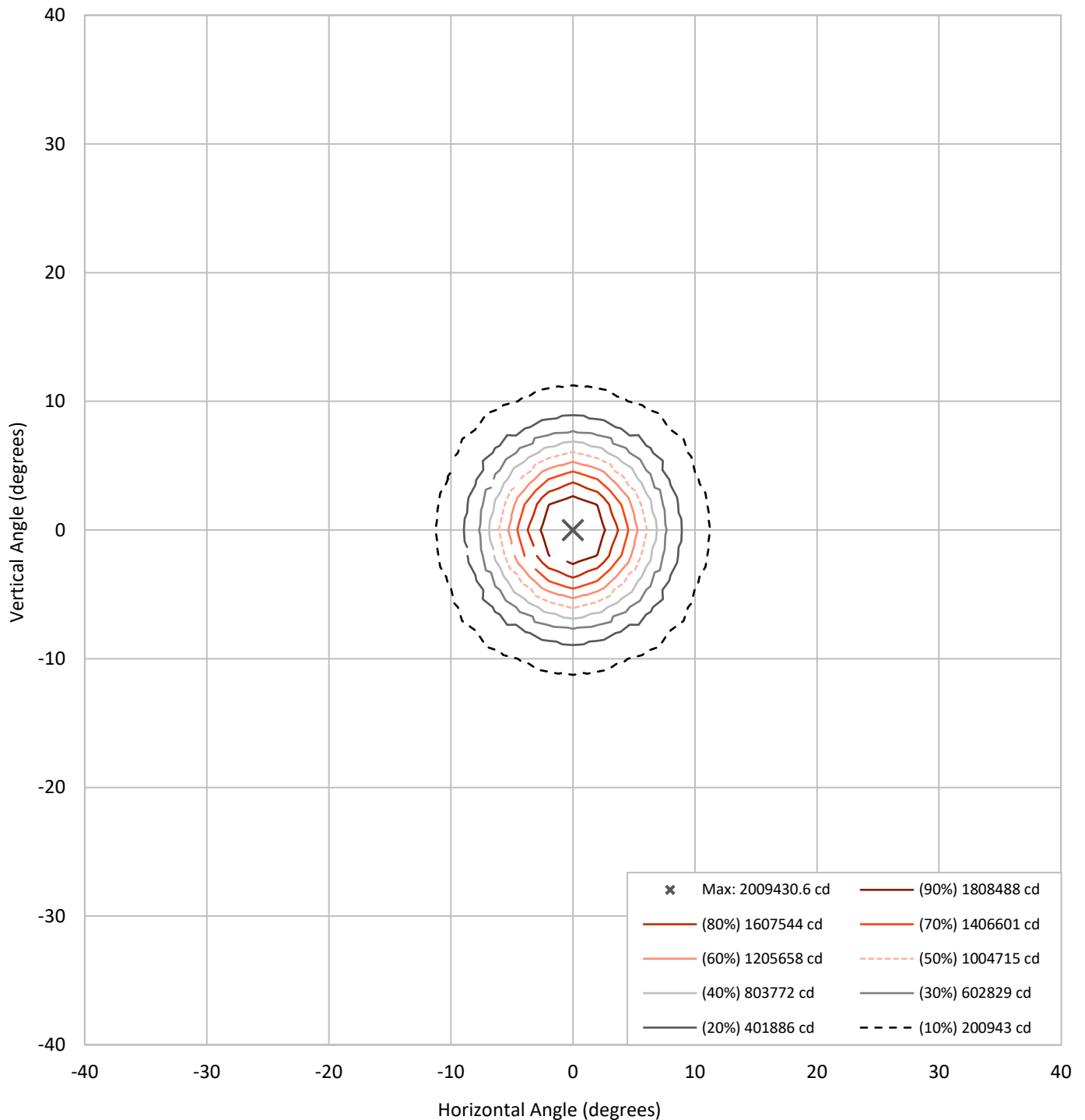
Test Method: LM-79-08
Report Number: P699869 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-40-80-1R-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 80 CRI LEDS AND 1R BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	161790.9 lumens	Max Intensity:	2009430.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	128.8 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	12.1°H x 12.1°V	Field Angle (10%):	22.5°H x 22.5°V
Beam Lumens:	46236.8 lumens	Field Lumens:	87145.1 lumens
Beam Efficiency:	28.6%	Field Efficiency:	53.9%
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





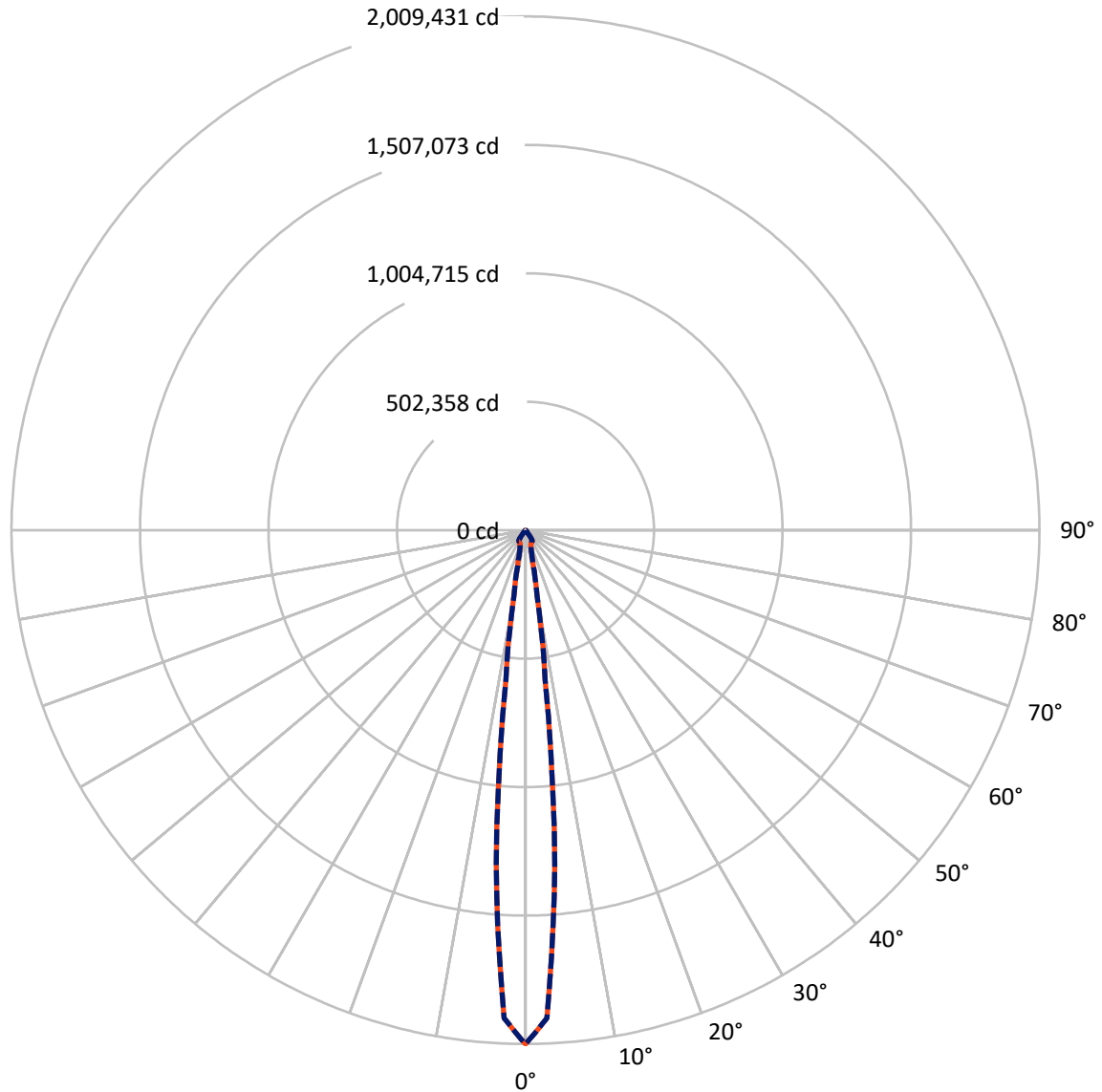
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Lumen Table

90	0.2	1.2		2.7		4.1		4.7		4.1		2.7		1.2		0.2
80	0.2	1.2		2.7		4.1		4.7		4.1		2.7		1.2		0.2
70	0.5	0.5	0.9	1.5	2.3	3.7	5.4	6.3	6.3	5.4	3.7	2.3	1.5	0.9	0.5	0.5
60		0.7	1.5	3.5	7.8	11.1	13.6	15.2	15.2	13.6	11.1	7.8	3.5	1.5	0.7	
50	0.8	0.9	2.9	8.0	12.9	20.5	37.3	61.5	61.5	37.3	20.5	12.9	8.0	2.9	0.9	0.8
40		1.2	5.5	11.1	25.3	175.5	645.4	991.7	991.7	645.4	175.5	25.3	11.1	5.5	1.2	
30	1.0	1.8	7.1	16.1	160.6	975.6	1495.2	1642.3	1642.3	1495.2	975.6	160.6	16.1	7.1	1.8	1.0
20		2.5	8.2	27.9	556.5	1403.9	1802.5	2943.7	2943.7	1802.5	1403.9	556.5	27.9	8.2	2.5	
10	1.1	2.8	8.9	45.1	826.7	1495.5	2864.8	22073.0	22073.0	2864.8	1495.5	826.7	45.1	8.9	2.8	1.1
0		2.8	8.9	45.1	826.7	1495.5	2864.8	22073.0	22073.0	2864.8	1495.5	826.7	45.1	8.9	2.8	
-10	1.0	2.5	8.2	27.9	556.5	1403.9	1802.5	2943.7	2943.7	1802.5	1403.9	556.5	27.9	8.2	2.5	1.0
-20		1.8	7.1	16.1	160.6	975.6	1495.2	1642.3	1642.3	1495.2	975.6	160.6	16.1	7.1	1.8	
-30	0.8	1.2	5.5	11.1	25.3	175.5	645.4	991.7	991.7	645.4	175.5	25.3	11.1	5.5	1.2	0.8
-40		0.9	2.9	8.0	12.9	20.5	37.3	61.5	61.5	37.3	20.5	12.9	8.0	2.9	0.9	
-50	0.5	0.7	1.5	3.5	7.8	11.1	13.6	15.2	15.2	13.6	11.1	7.8	3.5	1.5	0.7	0.5
-60		0.5	0.9	1.5	2.3	3.7	5.4	6.3	6.3	5.4	3.7	2.3	1.5	0.9	0.5	
-70	0.2	1.2		2.7		4.1		4.7		4.1		2.7		1.2		0.2
-80		1.2		2.7		4.1		4.7		4.1		2.7		1.2		
-90	0.2	1.2		2.7		4.1		4.7		4.1		2.7		1.2		0.2

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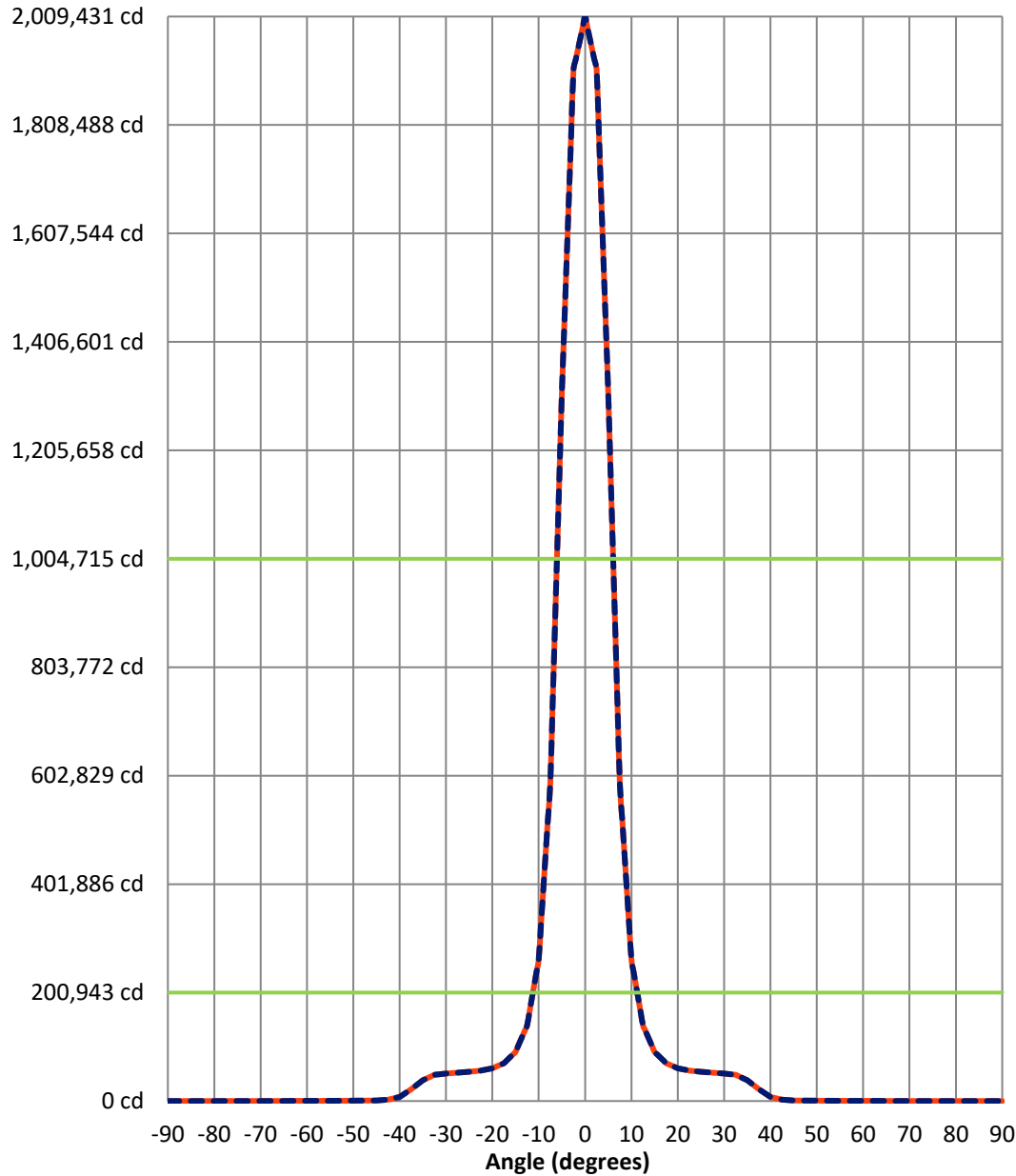
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 12.1°
 V Angle: 12.1°
 Lumens: 46236.8
 Efficiency: 28.6%

Field:
 H Angle: 22.5°
 V Angle: 22.5°
 Lumens: 87145.1
 Efficiency: 53.9%

Spill:
 Lumens: 74645.8
 Efficiency: 46.1%

- 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	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0
85°	0.0	0.8	1.6	2.5	3.3	4.1	4.9	5.6	6.4	7.2	7.9
82.5°	0.0	1.2	2.5	3.7	4.9	6.1	7.3	8.5	9.6	10.8	11.9
80°	0.0	1.6	3.3	4.9	6.5	8.1	9.7	11.2	12.8	14.3	15.8
77.5°	0.0	2.0	4.1	6.1	8.1	10.1	12.0	14.0	15.9	17.8	19.6
75°	0.0	2.4	4.9	7.3	9.7	12.0	14.4	16.7	19.0	21.3	23.5
72.5°	0.0	2.8	5.6	8.5	11.2	14.0	16.7	19.4	22.1	24.7	27.4
70°	0.0	3.2	6.4	9.6	12.8	15.9	19.0	22.1	25.2	28.2	31.1
67.5°	0.0	3.6	7.2	10.8	14.3	17.8	21.3	24.7	28.2	31.6	34.9
65°	0.0	4.0	7.9	11.9	15.8	19.6	23.5	27.4	31.1	34.9	38.6
62.5°	0.0	4.3	8.7	13.0	17.2	21.5	25.7	29.9	34.1	38.2	42.2
60°	0.0	4.7	9.4	14.0	18.6	23.3	27.9	32.4	36.9	41.3	45.7
57.5°	0.0	5.0	10.1	15.1	20.0	25.0	30.0	34.9	39.7	44.4	49.1
55°	0.0	5.4	10.8	16.1	21.4	26.7	32.0	37.2	42.4	47.5	52.5
52.5°	0.0	5.7	11.4	17.1	22.7	28.4	34.0	39.5	45.0	50.5	55.9
50°	0.0	6.0	12.0	18.0	24.0	30.0	35.9	41.8	47.6	53.3	61.9
47.5°	0.0	6.3	12.7	18.9	25.2	31.5	37.8	43.9	50.0	56.1	68.2
45°	0.0	6.6	13.2	19.8	26.4	33.0	39.5	46.0	52.4	61.5	74.2
42.5°	0.0	6.9	13.8	20.7	27.6	34.4	41.2	48.0	54.7	66.6	77.4
40°	0.0	7.2	14.3	21.5	28.6	35.8	42.8	49.9	57.6	71.6	80.2
37.5°	0.0	7.5	14.8	22.2	29.7	37.1	44.4	51.7	61.8	75.6	82.8
35°	0.0	7.7	15.3	23.0	30.6	38.3	45.8	53.4	65.8	77.9	86.2
32.5°	0.0	7.9	15.8	23.7	31.6	39.4	47.2	55.0	69.5	79.9	90.9
30°	0.0	8.1	16.2	24.3	32.4	40.5	48.5	56.9	73.0	81.9	95.3
27.5°	0.0	8.3	16.6	24.9	33.2	41.5	49.7	59.7	75.6	83.7	99.5
25°	0.0	8.5	17.0	25.4	33.9	42.4	50.8	62.3	77.1	86.5	103.4
22.5°	0.0	8.7	17.3	25.9	34.6	43.2	51.8	64.7	78.4	89.6	110.3
20°	0.0	8.8	17.6	26.4	35.2	44.0	52.7	66.8	79.6	92.4	116.5
17.5°	0.0	9.0	17.8	26.8	35.7	44.6	53.5	68.7	80.7	94.9	122.1
15°	0.0	9.1	18.1	27.1	36.2	45.2	54.2	70.4	81.7	97.0	126.9
12.5°	0.0	9.2	18.3	27.4	36.6	45.7	54.8	71.8	82.5	98.9	131.0
10°	0.0	9.3	18.4	27.7	36.9	46.1	55.3	72.9	83.1	100.4	134.4
7.5°	0.0	9.3	18.5	27.9	37.2	46.4	55.7	73.8	83.6	101.6	137.1
5°	0.0	9.4	18.6	28.0	37.4	46.6	56.0	74.5	84.0	102.4	139.0
2.5°	0.0	9.4	18.7	28.1	37.5	46.8	56.1	74.9	84.2	102.9	140.1
0°	0.0	9.4	18.7	28.1	37.5	46.8	56.2	75.0	84.3	103.1	140.5
-2.5°	0.0	9.4	18.7	28.1	37.5	46.8	56.1	74.9	84.2	102.9	140.1
-5°	0.0	9.4	18.6	28.0	37.4	46.6	56.0	74.5	84.0	102.4	139.0
-7.5°	0.0	9.3	18.5	27.9	37.2	46.4	55.7	73.8	83.6	101.6	137.1
-10°	0.0	9.3	18.4	27.7	36.9	46.1	55.3	72.9	83.1	100.4	134.4
-12.5°	0.0	9.2	18.3	27.4	36.6	45.7	54.8	71.8	82.5	98.9	131.0
-15°	0.0	9.1	18.1	27.1	36.2	45.2	54.2	70.4	81.7	97.0	126.9
-17.5°	0.0	9.0	17.8	26.8	35.7	44.6	53.5	68.7	80.7	94.9	122.1
-20°	0.0	8.8	17.6	26.4	35.2	44.0	52.7	66.8	79.6	92.4	116.5



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 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1R-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	8.7	17.3	25.9	34.6	43.2	51.8	64.7	78.4	89.6	110.3
-25°	0.0	8.5	17.0	25.4	33.9	42.4	50.8	62.3	77.1	86.5	103.4
-27.5°	0.0	8.3	16.6	24.9	33.2	41.5	49.7	59.7	75.6	83.7	99.5
-30°	0.0	8.1	16.2	24.3	32.4	40.5	48.5	56.9	73.0	81.9	95.3
-32.5°	0.0	7.9	15.8	23.7	31.6	39.4	47.2	55.0	69.5	79.9	90.9
-35°	0.0	7.7	15.3	23.0	30.6	38.3	45.8	53.4	65.8	77.9	86.2
-37.5°	0.0	7.5	14.8	22.2	29.7	37.1	44.4	51.7	61.8	75.6	82.8
-40°	0.0	7.2	14.3	21.5	28.6	35.8	42.8	49.9	57.6	71.6	80.2
-42.5°	0.0	6.9	13.8	20.7	27.6	34.4	41.2	48.0	54.7	66.6	77.4
-45°	0.0	6.6	13.2	19.8	26.4	33.0	39.5	46.0	52.4	61.5	74.2
-47.5°	0.0	6.3	12.7	18.9	25.2	31.5	37.8	43.9	50.0	56.1	68.2
-50°	0.0	6.0	12.0	18.0	24.0	30.0	35.9	41.8	47.6	53.3	61.9
-52.5°	0.0	5.7	11.4	17.1	22.7	28.4	34.0	39.5	45.0	50.5	55.9
-55°	0.0	5.4	10.8	16.1	21.4	26.7	32.0	37.2	42.4	47.5	52.5
-57.5°	0.0	5.0	10.1	15.1	20.0	25.0	30.0	34.9	39.7	44.4	49.1
-60°	0.0	4.7	9.4	14.0	18.6	23.3	27.9	32.4	36.9	41.3	45.7
-62.5°	0.0	4.3	8.7	13.0	17.2	21.5	25.7	29.9	34.1	38.2	42.2
-65°	0.0	4.0	7.9	11.9	15.8	19.6	23.5	27.4	31.1	34.9	38.6
-67.5°	0.0	3.6	7.2	10.8	14.3	17.8	21.3	24.7	28.2	31.6	34.9
-70°	0.0	3.2	6.4	9.6	12.8	15.9	19.0	22.1	25.2	28.2	31.1
-72.5°	0.0	2.8	5.6	8.5	11.2	14.0	16.7	19.4	22.1	24.7	27.4
-75°	0.0	2.4	4.9	7.3	9.7	12.0	14.4	16.7	19.0	21.3	23.5
-77.5°	0.0	2.0	4.1	6.1	8.1	10.1	12.0	14.0	15.9	17.8	19.6
-80°	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	1.2	2.5	3.7	4.9	6.1	7.3	8.5	9.6	10.8	11.9
-85°	0.0	0.8	1.6	2.5	3.3	4.1	4.9	5.6	6.4	7.2	7.9
-87.5°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1R-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°	4.3	4.7	5.0	5.4	5.7	6.0	6.3	6.6	6.9	7.2	7.5
85°	8.7	9.4	10.1	10.8	11.4	12.0	12.7	13.2	13.8	14.3	14.8
82.5°	13.0	14.0	15.1	16.1	17.1	18.0	18.9	19.8	20.7	21.5	22.2
80°	17.2	18.6	20.0	21.4	22.7	24.0	25.2	26.4	27.6	28.6	29.7
77.5°	21.5	23.3	25.0	26.7	28.4	30.0	31.5	33.0	34.4	35.8	37.1
75°	25.7	27.9	30.0	32.0	34.0	35.9	37.8	39.5	41.2	42.8	44.4
72.5°	29.9	32.4	34.9	37.2	39.5	41.8	43.9	46.0	48.0	49.9	51.7
70°	34.1	36.9	39.7	42.4	45.0	47.6	50.0	52.4	54.7	57.6	61.8
67.5°	38.2	41.3	44.4	47.5	50.5	53.3	56.1	61.5	66.6	71.6	75.6
65°	42.2	45.7	49.1	52.5	55.9	61.9	68.2	74.2	77.4	80.2	82.8
62.5°	46.1	50.0	53.8	58.9	66.2	73.2	77.5	80.8	83.9	89.7	95.5
60°	50.0	54.2	60.6	68.7	75.8	79.6	83.3	89.6	96.6	103.4	116.1
57.5°	53.8	60.6	69.6	76.7	80.9	85.8	94.0	101.8	115.6	130.1	162.1
55°	58.9	68.7	76.7	81.4	87.6	96.6	107.6	124.5	142.1	240.3	334.3
52.5°	66.2	75.8	80.9	87.6	97.5	111.1	129.8	187.1	296.9	375.9	380.0
50°	73.2	79.6	85.8	96.6	111.1	131.6	209.7	331.1	377.8	382.3	386.7
47.5°	77.5	83.3	94.0	107.6	129.8	209.7	342.6	378.7	383.7	388.5	393.2
45°	80.8	89.6	101.8	124.5	187.1	331.1	378.7	384.2	389.5	403.6	448.3
42.5°	83.9	96.6	115.6	142.1	296.9	377.8	383.7	389.5	407.9	457.2	513.8
40°	89.7	103.4	130.1	240.3	375.9	382.3	388.5	403.6	457.2	519.8	587.0
37.5°	95.5	116.1	162.1	334.3	380.0	386.7	393.2	448.3	513.8	587.0	686.3
35°	101.0	128.2	244.7	376.8	383.9	390.8	430.7	495.7	574.7	677.4	777.5
32.5°	109.4	139.6	322.9	380.2	387.5	404.6	469.0	550.3	650.7	762.5	854.4
30°	119.1	202.3	375.7	383.4	391.0	438.3	514.3	606.9	729.2	831.4	937.9
27.5°	128.2	264.9	378.4	386.4	399.6	469.8	559.6	676.0	793.7	900.1	1022.5
25°	136.6	322.9	381.0	389.1	426.8	506.3	606.6	740.4	850.7	974.3	1649.5
22.5°	164.1	374.8	383.3	391.6	451.7	542.3	661.7	791.0	908.4	1071.8	2376.6
20°	207.6	376.8	385.4	397.4	474.3	574.9	711.9	835.7	966.9	1692.1	4016.6
17.5°	246.2	378.5	387.3	415.9	500.0	610.0	755.6	875.8	1019.6	2251.7	5956.3
15°	280.0	380.0	388.9	432.1	523.6	646.4	788.2	917.6	1297.0	3059.8	7767.8
12.5°	308.7	381.3	390.3	446.0	543.8	677.6	816.1	954.5	1689.7	4428.0	11999.5
10°	332.4	382.3	391.4	457.4	560.4	703.3	839.1	984.9	2015.5	5564.9	15523.5
7.5°	350.9	383.1	392.3	466.3	573.4	723.5	857.2	1008.9	2271.7	6460.4	18304.6
5°	364.2	383.7	393.0	472.8	582.8	738.0	870.2	1026.1	2456.2	7106.3	20313.5
2.5°	372.1	384.1	393.4	476.6	588.4	746.7	878.1	1036.5	2567.6	7496.4	21528.0
0°	374.8	384.2	393.5	477.9	590.3	749.6	880.7	1040.0	2604.8	7626.9	21934.4
-2.5°	372.1	384.1	393.4	476.6	588.4	746.7	878.1	1036.5	2567.6	7496.4	21528.0
-5°	364.2	383.7	393.0	472.8	582.8	738.0	870.2	1026.1	2456.2	7106.3	20313.5
-7.5°	350.9	383.1	392.3	466.3	573.4	723.5	857.2	1008.9	2271.7	6460.4	18304.6
-10°	332.4	382.3	391.4	457.4	560.4	703.3	839.1	984.9	2015.5	5564.9	15523.5
-12.5°	308.7	381.3	390.3	446.0	543.8	677.6	816.1	954.5	1689.7	4428.0	11999.5
-15°	280.0	380.0	388.9	432.1	523.6	646.4	788.2	917.6	1297.0	3059.8	7767.8
-17.5°	246.2	378.5	387.3	415.9	500.0	610.0	755.6	875.8	1019.6	2251.7	5956.3
-20°	207.6	376.8	385.4	397.4	474.3	574.9	711.9	835.7	966.9	1692.1	4016.6



REPORT NUMBER: P699869 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1R-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	164.1	374.8	383.3	391.6	451.7	542.3	661.7	791.0	908.4	1071.8	2376.6
-25°	136.6	322.9	381.0	389.1	426.8	506.3	606.6	740.4	850.7	974.3	1649.5
-27.5°	128.2	264.9	378.4	386.4	399.6	469.8	559.6	676.0	793.7	900.1	1022.5
-30°	119.1	202.3	375.7	383.4	391.0	438.3	514.3	606.9	729.2	831.4	937.9
-32.5°	109.4	139.6	322.9	380.2	387.5	404.6	469.0	550.3	650.7	762.5	854.4
-35°	101.0	128.2	244.7	376.8	383.9	390.8	430.7	495.7	574.7	677.4	777.5
-37.5°	95.5	116.1	162.1	334.3	380.0	386.7	393.2	448.3	513.8	587.0	686.3
-40°	89.7	103.4	130.1	240.3	375.9	382.3	388.5	403.6	457.2	519.8	587.0
-42.5°	83.9	96.6	115.6	142.1	296.9	377.8	383.7	389.5	407.9	457.2	513.8
-45°	80.8	89.6	101.8	124.5	187.1	331.1	378.7	384.2	389.5	403.6	448.3
-47.5°	77.5	83.3	94.0	107.6	129.8	209.7	342.6	378.7	383.7	388.5	393.2
-50°	73.2	79.6	85.8	96.6	111.1	131.6	209.7	331.1	377.8	382.3	386.7
-52.5°	66.2	75.8	80.9	87.6	97.5	111.1	129.8	187.1	296.9	375.9	380.0
-55°	58.9	68.7	76.7	81.4	87.6	96.6	107.6	124.5	142.1	240.3	334.3
-57.5°	53.8	60.6	69.6	76.7	80.9	85.8	94.0	101.8	115.6	130.1	162.1
-60°	50.0	54.2	60.6	68.7	75.8	79.6	83.3	89.6	96.6	103.4	116.1
-62.5°	46.1	50.0	53.8	58.9	66.2	73.2	77.5	80.8	83.9	89.7	95.5
-65°	42.2	45.7	49.1	52.5	55.9	61.9	68.2	74.2	77.4	80.2	82.8
-67.5°	38.2	41.3	44.4	47.5	50.5	53.3	56.1	61.5	66.6	71.6	75.6
-70°	34.1	36.9	39.7	42.4	45.0	47.6	50.0	52.4	54.7	57.6	61.8
-72.5°	29.9	32.4	34.9	37.2	39.5	41.8	43.9	46.0	48.0	49.9	51.7
-75°	25.7	27.9	30.0	32.0	34.0	35.9	37.8	39.5	41.2	42.8	44.4
-77.5°	21.5	23.3	25.0	26.7	28.4	30.0	31.5	33.0	34.4	35.8	37.1
-80°	17.2	18.6	20.0	21.4	22.7	24.0	25.2	26.4	27.6	28.6	29.7
-82.5°	13.0	14.0	15.1	16.1	17.1	18.0	18.9	19.8	20.7	21.5	22.2
-85°	8.7	9.4	10.1	10.8	11.4	12.0	12.7	13.2	13.8	14.3	14.8
-87.5°	4.3	4.7	5.0	5.4	5.7	6.0	6.3	6.6	6.9	7.2	7.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699869 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1R-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°	7.7	7.9	8.1	8.3	8.5	8.7	8.8	9.0	9.1	9.2	9.3
85°	15.3	15.8	16.2	16.6	17.0	17.3	17.6	17.8	18.1	18.3	18.4
82.5°	23.0	23.7	24.3	24.9	25.4	25.9	26.4	26.8	27.1	27.4	27.7
80°	30.6	31.6	32.4	33.2	33.9	34.6	35.2	35.7	36.2	36.6	36.9
77.5°	38.3	39.4	40.5	41.5	42.4	43.2	44.0	44.6	45.2	45.7	46.1
75°	45.8	47.2	48.5	49.7	50.8	51.8	52.7	53.5	54.2	54.8	55.3
72.5°	53.4	55.0	56.9	59.7	62.3	64.7	66.8	68.7	70.4	71.8	72.9
70°	65.8	69.5	73.0	75.6	77.1	78.4	79.6	80.7	81.7	82.5	83.1
67.5°	77.9	79.9	81.9	83.7	86.5	89.6	92.4	94.9	97.0	98.9	100.4
65°	86.2	90.9	95.3	99.5	103.4	110.3	116.5	122.1	126.9	131.0	134.4
62.5°	101.0	109.4	119.1	128.2	136.6	164.1	207.6	246.2	280.0	308.7	332.4
60°	128.2	139.6	202.3	264.9	322.9	374.8	376.8	378.5	380.0	381.3	382.3
57.5°	244.7	322.9	375.7	378.4	381.0	383.3	385.4	387.3	388.9	390.3	391.4
55°	376.8	380.2	383.4	386.4	389.1	391.6	397.4	415.9	432.1	446.0	457.4
52.5°	383.9	387.5	391.0	399.6	426.8	451.7	474.3	500.0	523.6	543.8	560.4
50°	390.8	404.6	438.3	469.8	506.3	542.3	574.9	610.0	646.4	677.6	703.3
47.5°	430.7	469.0	514.3	559.6	606.6	661.7	711.9	755.6	788.2	816.1	839.1
45°	495.7	550.3	606.9	676.0	740.4	791.0	835.7	875.8	917.6	954.5	984.9
42.5°	574.7	650.7	729.2	793.7	850.7	908.4	966.9	1019.6	1297.0	1689.7	2015.5
40°	677.4	762.5	831.4	900.1	974.3	1071.8	1692.1	2251.7	3059.8	4428.0	5564.9
37.5°	777.5	854.4	937.9	1022.5	1649.5	2376.6	4016.6	5956.3	7767.8	11999.5	15523.5
35°	862.1	957.1	1156.8	2042.6	3481.8	5985.1	9524.3	15491.3	20798.7	25946.4	30395.4
32.5°	957.1	1253.8	2241.6	4464.6	7327.9	14418.2	21490.6	28887.7	35554.2	40240.6	43193.8
30°	1156.8	2241.6	4795.2	8715.4	17413.8	26179.7	34993.9	41280.6	45679.6	48821.8	49574.2
27.5°	2042.6	4464.6	8715.4	18422.6	28598.8	38655.5	44419.2	48868.3	49981.2	50957.4	51527.1
25°	3481.8	7327.9	17413.8	28598.8	39425.1	46018.9	49448.7	50782.8	51671.9	52407.5	53040.4
22.5°	5985.1	14418.2	26179.7	38655.5	46018.9	49645.0	51121.1	52114.3	53028.7	53848.8	54657.8
20°	9524.3	21490.6	34993.9	44419.2	49448.7	51121.1	52264.3	53349.8	54395.3	55598.2	56824.5
17.5°	15491.3	28887.7	41280.6	48868.3	50782.8	52114.3	53349.8	54625.2	56085.8	58307.3	60527.9
15°	20798.7	35554.2	45679.6	49981.2	51671.9	53028.7	54395.3	56085.8	58815.9	62808.8	68382.1
12.5°	25946.4	40240.6	48821.8	50957.4	52407.5	53848.8	55598.2	58307.3	62808.8	69735.7	83035.5
10°	30395.4	43193.8	49574.2	51527.1	53040.4	54657.8	56824.5	60527.9	68382.1	83035.5	104061.6
7.5°	33914.5	45536.1	50173.0	51981.4	53551.4	55416.0	58451.9	64478.3	76563.6	97646.8	140862.0
5°	36461.1	47234.9	50608.5	52312.9	53925.9	55975.0	59660.9	67567.0	84412.6	116774.9	190038.2
2.5°	38002.6	48264.8	50873.0	52514.8	54154.7	56318.0	60407.0	69488.5	89354.6	133206.2	242555.3
0°	38518.7	48609.9	50961.7	52582.6	54231.7	56433.6	60659.3	70141.4	91045.2	140203.2	262407.2
-2.5°	38002.6	48264.8	50873.0	52514.8	54154.7	56318.0	60407.0	69488.5	89354.6	133206.2	242555.3
-5°	36461.1	47234.9	50608.5	52312.9	53925.9	55975.0	59660.9	67567.0	84412.6	116774.9	190038.2
-7.5°	33914.5	45536.1	50173.0	51981.4	53551.4	55416.0	58451.9	64478.3	76563.6	97646.8	140862.0
-10°	30395.4	43193.8	49574.2	51527.1	53040.4	54657.8	56824.5	60527.9	68382.1	83035.5	104061.6
-12.5°	25946.4	40240.6	48821.8	50957.4	52407.5	53848.8	55598.2	58307.3	62808.8	69735.7	83035.5
-15°	20798.7	35554.2	45679.6	49981.2	51671.9	53028.7	54395.3	56085.8	58815.9	62808.8	68382.1
-17.5°	15491.3	28887.7	41280.6	48868.3	50782.8	52114.3	53349.8	54625.2	56085.8	58307.3	60527.9
-20°	9524.3	21490.6	34993.9	44419.2	49448.7	51121.1	52264.3	53349.8	54395.3	55598.2	56824.5



REPORT NUMBER: P699869 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1R-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5985.1	14418.2	26179.7	38655.5	46018.9	49645.0	51121.1	52114.3	53028.7	53848.8	54657.8
-25°	3481.8	7327.9	17413.8	28598.8	39425.1	46018.9	49448.7	50782.8	51671.9	52407.5	53040.4
-27.5°	2042.6	4464.6	8715.4	18422.6	28598.8	38655.5	44419.2	48868.3	49981.2	50957.4	51527.1
-30°	1156.8	2241.6	4795.2	8715.4	17413.8	26179.7	34993.9	41280.6	45679.6	48821.8	49574.2
-32.5°	957.1	1253.8	2241.6	4464.6	7327.9	14418.2	21490.6	28887.7	35554.2	40240.6	43193.8
-35°	862.1	957.1	1156.8	2042.6	3481.8	5985.1	9524.3	15491.3	20798.7	25946.4	30395.4
-37.5°	777.5	854.4	937.9	1022.5	1649.5	2376.6	4016.6	5956.3	7767.8	11999.5	15523.5
-40°	677.4	762.5	831.4	900.1	974.3	1071.8	1692.1	2251.7	3059.8	4428.0	5564.9
-42.5°	574.7	650.7	729.2	793.7	850.7	908.4	966.9	1019.6	1297.0	1689.7	2015.5
-45°	495.7	550.3	606.9	676.0	740.4	791.0	835.7	875.8	917.6	954.5	984.9
-47.5°	430.7	469.0	514.3	559.6	606.6	661.7	711.9	755.6	788.2	816.1	839.1
-50°	390.8	404.6	438.3	469.8	506.3	542.3	574.9	610.0	646.4	677.6	703.3
-52.5°	383.9	387.5	391.0	399.6	426.8	451.7	474.3	500.0	523.6	543.8	560.4
-55°	376.8	380.2	383.4	386.4	389.1	391.6	397.4	415.9	432.1	446.0	457.4
-57.5°	244.7	322.9	375.7	378.4	381.0	383.3	385.4	387.3	388.9	390.3	391.4
-60°	128.2	139.6	202.3	264.9	322.9	374.8	376.8	378.5	380.0	381.3	382.3
-62.5°	101.0	109.4	119.1	128.2	136.6	164.1	207.6	246.2	280.0	308.7	332.4
-65°	86.2	90.9	95.3	99.5	103.4	110.3	116.5	122.1	126.9	131.0	134.4
-67.5°	77.9	79.9	81.9	83.7	86.5	89.6	92.4	94.9	97.0	98.9	100.4
-70°	65.8	69.5	73.0	75.6	77.1	78.4	79.6	80.7	81.7	82.5	83.1
-72.5°	53.4	55.0	56.9	59.7	62.3	64.7	66.8	68.7	70.4	71.8	72.9
-75°	45.8	47.2	48.5	49.7	50.8	51.8	52.7	53.5	54.2	54.8	55.3
-77.5°	38.3	39.4	40.5	41.5	42.4	43.2	44.0	44.6	45.2	45.7	46.1
-80°	30.6	31.6	32.4	33.2	33.9	34.6	35.2	35.7	36.2	36.6	36.9
-82.5°	23.0	23.7	24.3	24.9	25.4	25.9	26.4	26.8	27.1	27.4	27.7
-85°	15.3	15.8	16.2	16.6	17.0	17.3	17.6	17.8	18.1	18.3	18.4
-87.5°	7.7	7.9	8.1	8.3	8.5	8.7	8.8	9.0	9.1	9.2	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: P699869 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1R-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°	9.3	9.4	9.4	9.4	9.4	9.4	9.3	9.3	9.2	9.1	9.0
85°	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.4	18.3	18.1	17.8
82.5°	27.9	28.0	28.1	28.1	28.1	28.0	27.9	27.7	27.4	27.1	26.8
80°	37.2	37.4	37.5	37.5	37.5	37.4	37.2	36.9	36.6	36.2	35.7
77.5°	46.4	46.6	46.8	46.8	46.8	46.6	46.4	46.1	45.7	45.2	44.6
75°	55.7	56.0	56.1	56.2	56.1	56.0	55.7	55.3	54.8	54.2	53.5
72.5°	73.8	74.5	74.9	75.0	74.9	74.5	73.8	72.9	71.8	70.4	68.7
70°	83.6	84.0	84.2	84.3	84.2	84.0	83.6	83.1	82.5	81.7	80.7
67.5°	101.6	102.4	102.9	103.1	102.9	102.4	101.6	100.4	98.9	97.0	94.9
65°	137.1	139.0	140.1	140.5	140.1	139.0	137.1	134.4	131.0	126.9	122.1
62.5°	350.9	364.2	372.1	374.8	372.1	364.2	350.9	332.4	308.7	280.0	246.2
60°	383.1	383.7	384.1	384.2	384.1	383.7	383.1	382.3	381.3	380.0	378.5
57.5°	392.3	393.0	393.4	393.5	393.4	393.0	392.3	391.4	390.3	388.9	387.3
55°	466.3	472.8	476.6	477.9	476.6	472.8	466.3	457.4	446.0	432.1	415.9
52.5°	573.4	582.8	588.4	590.3	588.4	582.8	573.4	560.4	543.8	523.6	500.0
50°	723.5	738.0	746.7	749.6	746.7	738.0	723.5	703.3	677.6	646.4	610.0
47.5°	857.2	870.2	878.1	880.7	878.1	870.2	857.2	839.1	816.1	788.2	755.6
45°	1008.9	1026.1	1036.5	1040.0	1036.5	1026.1	1008.9	984.9	954.5	917.6	875.8
42.5°	2271.7	2456.2	2567.6	2604.8	2567.6	2456.2	2271.7	2015.5	1689.7	1297.0	1019.6
40°	6460.4	7106.3	7496.4	7626.9	7496.4	7106.3	6460.4	5564.9	4428.0	3059.8	2251.7
37.5°	18304.6	20313.5	21528.0	21934.4	21528.0	20313.5	18304.6	15523.5	11999.5	7767.8	5956.3
35°	33914.5	36461.1	38002.6	38518.7	38002.6	36461.1	33914.5	30395.4	25946.4	20798.7	15491.3
32.5°	45536.1	47234.9	48264.8	48609.9	48264.8	47234.9	45536.1	43193.8	40240.6	35554.2	28887.7
30°	50173.0	50608.5	50873.0	50961.7	50873.0	50608.5	50173.0	49574.2	48821.8	45679.6	41280.6
27.5°	51981.4	52312.9	52514.8	52582.6	52514.8	52312.9	51981.4	51527.1	50957.4	49981.2	48868.3
25°	53551.4	53925.9	54154.7	54231.7	54154.7	53925.9	53551.4	53040.4	52407.5	51671.9	50782.8
22.5°	55416.0	55975.0	56318.0	56433.6	56318.0	55975.0	55416.0	54657.8	53848.8	53028.7	52114.3
20°	58451.9	59660.9	60407.0	60659.3	60407.0	59660.9	58451.9	56824.5	55598.2	54395.3	53349.8
17.5°	64478.3	67567.0	69488.5	70141.4	69488.5	67567.0	64478.3	60527.9	58307.3	56085.8	54625.2
15°	76563.6	84412.6	89354.6	91045.2	89354.6	84412.6	76563.6	68382.1	62808.8	58815.9	56085.8
12.5°	97646.8	116774.9	133206.2	140203.2	133206.2	116774.9	97646.8	83035.5	69735.7	62808.8	58307.3
10°	140862.0	190038.2	242555.3	262407.2	242555.3	190038.2	140862.0	104061.6	83035.5	68382.1	60527.9
7.5°	223872.8	358742.0	512224.0	589231.0	512224.0	358742.0	223872.8	140862.0	97646.8	76563.6	64478.3
5°	358742.0	671962.8	#####	#####	#####	671962.8	358742.0	190038.2	116774.9	84412.6	67567.0
2.5°	512224.0	#####	#####	#####	#####	#####	512224.0	242555.3	133206.2	89354.6	69488.5
0°	589231.0	#####	#####	#####	#####	#####	589231.0	262407.2	140203.2	91045.2	70141.4
-2.5°	512224.0	#####	#####	#####	#####	#####	512224.0	242555.3	133206.2	89354.6	69488.5
-5°	358742.0	671962.8	#####	#####	#####	671962.8	358742.0	190038.2	116774.9	84412.6	67567.0
-7.5°	223872.8	358742.0	512224.0	589231.0	512224.0	358742.0	223872.8	140862.0	97646.8	76563.6	64478.3
-10°	140862.0	190038.2	242555.3	262407.2	242555.3	190038.2	140862.0	104061.6	83035.5	68382.1	60527.9
-12.5°	97646.8	116774.9	133206.2	140203.2	133206.2	116774.9	97646.8	83035.5	69735.7	62808.8	58307.3
-15°	76563.6	84412.6	89354.6	91045.2	89354.6	84412.6	76563.6	68382.1	62808.8	58815.9	56085.8
-17.5°	64478.3	67567.0	69488.5	70141.4	69488.5	67567.0	64478.3	60527.9	58307.3	56085.8	54625.2
-20°	58451.9	59660.9	60407.0	60659.3	60407.0	59660.9	58451.9	56824.5	55598.2	54395.3	53349.8



REPORT NUMBER: P699869 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1R-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	55416.0	55975.0	56318.0	56433.6	56318.0	55975.0	55416.0	54657.8	53848.8	53028.7	52114.3
-25°	53551.4	53925.9	54154.7	54231.7	54154.7	53925.9	53551.4	53040.4	52407.5	51671.9	50782.8
-27.5°	51981.4	52312.9	52514.8	52582.6	52514.8	52312.9	51981.4	51527.1	50957.4	49981.2	48868.3
-30°	50173.0	50608.5	50873.0	50961.7	50873.0	50608.5	50173.0	49574.2	48821.8	45679.6	41280.6
-32.5°	45536.1	47234.9	48264.8	48609.9	48264.8	47234.9	45536.1	43193.8	40240.6	35554.2	28887.7
-35°	33914.5	36461.1	38002.6	38518.7	38002.6	36461.1	33914.5	30395.4	25946.4	20798.7	15491.3
-37.5°	18304.6	20313.5	21528.0	21934.4	21528.0	20313.5	18304.6	15523.5	11999.5	7767.8	5956.3
-40°	6460.4	7106.3	7496.4	7626.9	7496.4	7106.3	6460.4	5564.9	4428.0	3059.8	2251.7
-42.5°	2271.7	2456.2	2567.6	2604.8	2567.6	2456.2	2271.7	2015.5	1689.7	1297.0	1019.6
-45°	1008.9	1026.1	1036.5	1040.0	1036.5	1026.1	1008.9	984.9	954.5	917.6	875.8
-47.5°	857.2	870.2	878.1	880.7	878.1	870.2	857.2	839.1	816.1	788.2	755.6
-50°	723.5	738.0	746.7	749.6	746.7	738.0	723.5	703.3	677.6	646.4	610.0
-52.5°	573.4	582.8	588.4	590.3	588.4	582.8	573.4	560.4	543.8	523.6	500.0
-55°	466.3	472.8	476.6	477.9	476.6	472.8	466.3	457.4	446.0	432.1	415.9
-57.5°	392.3	393.0	393.4	393.5	393.4	393.0	392.3	391.4	390.3	388.9	387.3
-60°	383.1	383.7	384.1	384.2	384.1	383.7	383.1	382.3	381.3	380.0	378.5
-62.5°	350.9	364.2	372.1	374.8	372.1	364.2	350.9	332.4	308.7	280.0	246.2
-65°	137.1	139.0	140.1	140.5	140.1	139.0	137.1	134.4	131.0	126.9	122.1
-67.5°	101.6	102.4	102.9	103.1	102.9	102.4	101.6	100.4	98.9	97.0	94.9
-70°	83.6	84.0	84.2	84.3	84.2	84.0	83.6	83.1	82.5	81.7	80.7
-72.5°	73.8	74.5	74.9	75.0	74.9	74.5	73.8	72.9	71.8	70.4	68.7
-75°	55.7	56.0	56.1	56.2	56.1	56.0	55.7	55.3	54.8	54.2	53.5
-77.5°	46.4	46.6	46.8	46.8	46.8	46.6	46.4	46.1	45.7	45.2	44.6
-80°	37.2	37.4	37.5	37.5	37.5	37.4	37.2	36.9	36.6	36.2	35.7
-82.5°	27.9	28.0	28.1	28.1	28.1	28.0	27.9	27.7	27.4	27.1	26.8
-85°	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.4	18.3	18.1	17.8
-87.5°	9.3	9.4	9.4	9.4	9.4	9.4	9.3	9.3	9.2	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: P699869 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	8.8	8.7	8.5	8.3	8.1	7.9	7.7	7.5	7.2	6.9	6.6
85°	17.6	17.3	17.0	16.6	16.2	15.8	15.3	14.8	14.3	13.8	13.2
82.5°	26.4	25.9	25.4	24.9	24.3	23.7	23.0	22.2	21.5	20.7	19.8
80°	35.2	34.6	33.9	33.2	32.4	31.6	30.6	29.7	28.6	27.6	26.4
77.5°	44.0	43.2	42.4	41.5	40.5	39.4	38.3	37.1	35.8	34.4	33.0
75°	52.7	51.8	50.8	49.7	48.5	47.2	45.8	44.4	42.8	41.2	39.5
72.5°	66.8	64.7	62.3	59.7	56.9	55.0	53.4	51.7	49.9	48.0	46.0
70°	79.6	78.4	77.1	75.6	73.0	69.5	65.8	61.8	57.6	54.7	52.4
67.5°	92.4	89.6	86.5	83.7	81.9	79.9	77.9	75.6	71.6	66.6	61.5
65°	116.5	110.3	103.4	99.5	95.3	90.9	86.2	82.8	80.2	77.4	74.2
62.5°	207.6	164.1	136.6	128.2	119.1	109.4	101.0	95.5	89.7	83.9	80.8
60°	376.8	374.8	322.9	264.9	202.3	139.6	128.2	116.1	103.4	96.6	89.6
57.5°	385.4	383.3	381.0	378.4	375.7	322.9	244.7	162.1	130.1	115.6	101.8
55°	397.4	391.6	389.1	386.4	383.4	380.2	376.8	334.3	240.3	142.1	124.5
52.5°	474.3	451.7	426.8	399.6	391.0	387.5	383.9	380.0	375.9	296.9	187.1
50°	574.9	542.3	506.3	469.8	438.3	404.6	390.8	386.7	382.3	377.8	331.1
47.5°	711.9	661.7	606.6	559.6	514.3	469.0	430.7	393.2	388.5	383.7	378.7
45°	835.7	791.0	740.4	676.0	606.9	550.3	495.7	448.3	403.6	389.5	384.2
42.5°	966.9	908.4	850.7	793.7	729.2	650.7	574.7	513.8	457.2	407.9	389.5
40°	1692.1	1071.8	974.3	900.1	831.4	762.5	677.4	587.0	519.8	457.2	403.6
37.5°	4016.6	2376.6	1649.5	1022.5	937.9	854.4	777.5	686.3	587.0	513.8	448.3
35°	9524.3	5985.1	3481.8	2042.6	1156.8	957.1	862.1	777.5	677.4	574.7	495.7
32.5°	21490.6	14418.2	7327.9	4464.6	2241.6	1253.8	957.1	854.4	762.5	650.7	550.3
30°	34993.9	26179.7	17413.8	8715.4	4795.2	2241.6	1156.8	937.9	831.4	729.2	606.9
27.5°	44419.2	38655.5	28598.8	18422.6	8715.4	4464.6	2042.6	1022.5	900.1	793.7	676.0
25°	49448.7	46018.9	39425.1	28598.8	17413.8	7327.9	3481.8	1649.5	974.3	850.7	740.4
22.5°	51121.1	49645.0	46018.9	38655.5	26179.7	14418.2	5985.1	2376.6	1071.8	908.4	791.0
20°	52264.3	51121.1	49448.7	44419.2	34993.9	21490.6	9524.3	4016.6	1692.1	966.9	835.7
17.5°	53349.8	52114.3	50782.8	48868.3	41280.6	28887.7	15491.3	5956.3	2251.7	1019.6	875.8
15°	54395.3	53028.7	51671.9	49981.2	45679.6	35554.2	20798.7	7767.8	3059.8	1297.0	917.6
12.5°	55598.2	53848.8	52407.5	50957.4	48821.8	40240.6	25946.4	11999.5	4428.0	1689.7	954.5
10°	56824.5	54657.8	53040.4	51527.1	49574.2	43193.8	30395.4	15523.5	5564.9	2015.5	984.9
7.5°	58451.9	55416.0	53551.4	51981.4	50173.0	45536.1	33914.5	18304.6	6460.4	2271.7	1008.9
5°	59660.9	55975.0	53925.9	52312.9	50608.5	47234.9	36461.1	20313.5	7106.3	2456.2	1026.1
2.5°	60407.0	56318.0	54154.7	52514.8	50873.0	48264.8	38002.6	21528.0	7496.4	2567.6	1036.5
0°	60659.3	56433.6	54231.7	52582.6	50961.7	48609.9	38518.7	21934.4	7626.9	2604.8	1040.0
-2.5°	60407.0	56318.0	54154.7	52514.8	50873.0	48264.8	38002.6	21528.0	7496.4	2567.6	1036.5
-5°	59660.9	55975.0	53925.9	52312.9	50608.5	47234.9	36461.1	20313.5	7106.3	2456.2	1026.1
-7.5°	58451.9	55416.0	53551.4	51981.4	50173.0	45536.1	33914.5	18304.6	6460.4	2271.7	1008.9
-10°	56824.5	54657.8	53040.4	51527.1	49574.2	43193.8	30395.4	15523.5	5564.9	2015.5	984.9
-12.5°	55598.2	53848.8	52407.5	50957.4	48821.8	40240.6	25946.4	11999.5	4428.0	1689.7	954.5
-15°	54395.3	53028.7	51671.9	49981.2	45679.6	35554.2	20798.7	7767.8	3059.8	1297.0	917.6
-17.5°	53349.8	52114.3	50782.8	48868.3	41280.6	28887.7	15491.3	5956.3	2251.7	1019.6	875.8
-20°	52264.3	51121.1	49448.7	44419.2	34993.9	21490.6	9524.3	4016.6	1692.1	966.9	835.7



REPORT NUMBER: P699869 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1R-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	51121.1	49645.0	46018.9	38655.5	26179.7	14418.2	5985.1	2376.6	1071.8	908.4	791.0
-25°	49448.7	46018.9	39425.1	28598.8	17413.8	7327.9	3481.8	1649.5	974.3	850.7	740.4
-27.5°	44419.2	38655.5	28598.8	18422.6	8715.4	4464.6	2042.6	1022.5	900.1	793.7	676.0
-30°	34993.9	26179.7	17413.8	8715.4	4795.2	2241.6	1156.8	937.9	831.4	729.2	606.9
-32.5°	21490.6	14418.2	7327.9	4464.6	2241.6	1253.8	957.1	854.4	762.5	650.7	550.3
-35°	9524.3	5985.1	3481.8	2042.6	1156.8	957.1	862.1	777.5	677.4	574.7	495.7
-37.5°	4016.6	2376.6	1649.5	1022.5	937.9	854.4	777.5	686.3	587.0	513.8	448.3
-40°	1692.1	1071.8	974.3	900.1	831.4	762.5	677.4	587.0	519.8	457.2	403.6
-42.5°	966.9	908.4	850.7	793.7	729.2	650.7	574.7	513.8	457.2	407.9	389.5
-45°	835.7	791.0	740.4	676.0	606.9	550.3	495.7	448.3	403.6	389.5	384.2
-47.5°	711.9	661.7	606.6	559.6	514.3	469.0	430.7	393.2	388.5	383.7	378.7
-50°	574.9	542.3	506.3	469.8	438.3	404.6	390.8	386.7	382.3	377.8	331.1
-52.5°	474.3	451.7	426.8	399.6	391.0	387.5	383.9	380.0	375.9	296.9	187.1
-55°	397.4	391.6	389.1	386.4	383.4	380.2	376.8	334.3	240.3	142.1	124.5
-57.5°	385.4	383.3	381.0	378.4	375.7	322.9	244.7	162.1	130.1	115.6	101.8
-60°	376.8	374.8	322.9	264.9	202.3	139.6	128.2	116.1	103.4	96.6	89.6
-62.5°	207.6	164.1	136.6	128.2	119.1	109.4	101.0	95.5	89.7	83.9	80.8
-65°	116.5	110.3	103.4	99.5	95.3	90.9	86.2	82.8	80.2	77.4	74.2
-67.5°	92.4	89.6	86.5	83.7	81.9	79.9	77.9	75.6	71.6	66.6	61.5
-70°	79.6	78.4	77.1	75.6	73.0	69.5	65.8	61.8	57.6	54.7	52.4
-72.5°	66.8	64.7	62.3	59.7	56.9	55.0	53.4	51.7	49.9	48.0	46.0
-75°	52.7	51.8	50.8	49.7	48.5	47.2	45.8	44.4	42.8	41.2	39.5
-77.5°	44.0	43.2	42.4	41.5	40.5	39.4	38.3	37.1	35.8	34.4	33.0
-80°	35.2	34.6	33.9	33.2	32.4	31.6	30.6	29.7	28.6	27.6	26.4
-82.5°	26.4	25.9	25.4	24.9	24.3	23.7	23.0	22.2	21.5	20.7	19.8
-85°	17.6	17.3	17.0	16.6	16.2	15.8	15.3	14.8	14.3	13.8	13.2
-87.5°	8.8	8.7	8.5	8.3	8.1	7.9	7.7	7.5	7.2	6.9	6.6
-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: P699869 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-1R-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°	6.3	6.0	5.7	5.4	5.0	4.7	4.3	4.0	3.6	3.2	2.8
85°	12.7	12.0	11.4	10.8	10.1	9.4	8.7	7.9	7.2	6.4	5.6
82.5°	18.9	18.0	17.1	16.1	15.1	14.0	13.0	11.9	10.8	9.6	8.5
80°	25.2	24.0	22.7	21.4	20.0	18.6	17.2	15.8	14.3	12.8	11.2
77.5°	31.5	30.0	28.4	26.7	25.0	23.3	21.5	19.6	17.8	15.9	14.0
75°	37.8	35.9	34.0	32.0	30.0	27.9	25.7	23.5	21.3	19.0	16.7
72.5°	43.9	41.8	39.5	37.2	34.9	32.4	29.9	27.4	24.7	22.1	19.4
70°	50.0	47.6	45.0	42.4	39.7	36.9	34.1	31.1	28.2	25.2	22.1
67.5°	56.1	53.3	50.5	47.5	44.4	41.3	38.2	34.9	31.6	28.2	24.7
65°	68.2	61.9	55.9	52.5	49.1	45.7	42.2	38.6	34.9	31.1	27.4
62.5°	77.5	73.2	66.2	58.9	53.8	50.0	46.1	42.2	38.2	34.1	29.9
60°	83.3	79.6	75.8	68.7	60.6	54.2	50.0	45.7	41.3	36.9	32.4
57.5°	94.0	85.8	80.9	76.7	69.6	60.6	53.8	49.1	44.4	39.7	34.9
55°	107.6	96.6	87.6	81.4	76.7	68.7	58.9	52.5	47.5	42.4	37.2
52.5°	129.8	111.1	97.5	87.6	80.9	75.8	66.2	55.9	50.5	45.0	39.5
50°	209.7	131.6	111.1	96.6	85.8	79.6	73.2	61.9	53.3	47.6	41.8
47.5°	342.6	209.7	129.8	107.6	94.0	83.3	77.5	68.2	56.1	50.0	43.9
45°	378.7	331.1	187.1	124.5	101.8	89.6	80.8	74.2	61.5	52.4	46.0
42.5°	383.7	377.8	296.9	142.1	115.6	96.6	83.9	77.4	66.6	54.7	48.0
40°	388.5	382.3	375.9	240.3	130.1	103.4	89.7	80.2	71.6	57.6	49.9
37.5°	393.2	386.7	380.0	334.3	162.1	116.1	95.5	82.8	75.6	61.8	51.7
35°	430.7	390.8	383.9	376.8	244.7	128.2	101.0	86.2	77.9	65.8	53.4
32.5°	469.0	404.6	387.5	380.2	322.9	139.6	109.4	90.9	79.9	69.5	55.0
30°	514.3	438.3	391.0	383.4	375.7	202.3	119.1	95.3	81.9	73.0	56.9
27.5°	559.6	469.8	399.6	386.4	378.4	264.9	128.2	99.5	83.7	75.6	59.7
25°	606.6	506.3	426.8	389.1	381.0	322.9	136.6	103.4	86.5	77.1	62.3
22.5°	661.7	542.3	451.7	391.6	383.3	374.8	164.1	110.3	89.6	78.4	64.7
20°	711.9	574.9	474.3	397.4	385.4	376.8	207.6	116.5	92.4	79.6	66.8
17.5°	755.6	610.0	500.0	415.9	387.3	378.5	246.2	122.1	94.9	80.7	68.7
15°	788.2	646.4	523.6	432.1	388.9	380.0	280.0	126.9	97.0	81.7	70.4
12.5°	816.1	677.6	543.8	446.0	390.3	381.3	308.7	131.0	98.9	82.5	71.8
10°	839.1	703.3	560.4	457.4	391.4	382.3	332.4	134.4	100.4	83.1	72.9
7.5°	857.2	723.5	573.4	466.3	392.3	383.1	350.9	137.1	101.6	83.6	73.8
5°	870.2	738.0	582.8	472.8	393.0	383.7	364.2	139.0	102.4	84.0	74.5
2.5°	878.1	746.7	588.4	476.6	393.4	384.1	372.1	140.1	102.9	84.2	74.9
0°	880.7	749.6	590.3	477.9	393.5	384.2	374.8	140.5	103.1	84.3	75.0
-2.5°	878.1	746.7	588.4	476.6	393.4	384.1	372.1	140.1	102.9	84.2	74.9
-5°	870.2	738.0	582.8	472.8	393.0	383.7	364.2	139.0	102.4	84.0	74.5
-7.5°	857.2	723.5	573.4	466.3	392.3	383.1	350.9	137.1	101.6	83.6	73.8
-10°	839.1	703.3	560.4	457.4	391.4	382.3	332.4	134.4	100.4	83.1	72.9
-12.5°	816.1	677.6	543.8	446.0	390.3	381.3	308.7	131.0	98.9	82.5	71.8
-15°	788.2	646.4	523.6	432.1	388.9	380.0	280.0	126.9	97.0	81.7	70.4
-17.5°	755.6	610.0	500.0	415.9	387.3	378.5	246.2	122.1	94.9	80.7	68.7
-20°	711.9	574.9	474.3	397.4	385.4	376.8	207.6	116.5	92.4	79.6	66.8



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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°	661.7	542.3	451.7	391.6	383.3	374.8	164.1	110.3	89.6	78.4	64.7
-25°	606.6	506.3	426.8	389.1	381.0	322.9	136.6	103.4	86.5	77.1	62.3
-27.5°	559.6	469.8	399.6	386.4	378.4	264.9	128.2	99.5	83.7	75.6	59.7
-30°	514.3	438.3	391.0	383.4	375.7	202.3	119.1	95.3	81.9	73.0	56.9
-32.5°	469.0	404.6	387.5	380.2	322.9	139.6	109.4	90.9	79.9	69.5	55.0
-35°	430.7	390.8	383.9	376.8	244.7	128.2	101.0	86.2	77.9	65.8	53.4
-37.5°	393.2	386.7	380.0	334.3	162.1	116.1	95.5	82.8	75.6	61.8	51.7
-40°	388.5	382.3	375.9	240.3	130.1	103.4	89.7	80.2	71.6	57.6	49.9
-42.5°	383.7	377.8	296.9	142.1	115.6	96.6	83.9	77.4	66.6	54.7	48.0
-45°	378.7	331.1	187.1	124.5	101.8	89.6	80.8	74.2	61.5	52.4	46.0
-47.5°	342.6	209.7	129.8	107.6	94.0	83.3	77.5	68.2	56.1	50.0	43.9
-50°	209.7	131.6	111.1	96.6	85.8	79.6	73.2	61.9	53.3	47.6	41.8
-52.5°	129.8	111.1	97.5	87.6	80.9	75.8	66.2	55.9	50.5	45.0	39.5
-55°	107.6	96.6	87.6	81.4	76.7	68.7	58.9	52.5	47.5	42.4	37.2
-57.5°	94.0	85.8	80.9	76.7	69.6	60.6	53.8	49.1	44.4	39.7	34.9
-60°	83.3	79.6	75.8	68.7	60.6	54.2	50.0	45.7	41.3	36.9	32.4
-62.5°	77.5	73.2	66.2	58.9	53.8	50.0	46.1	42.2	38.2	34.1	29.9
-65°	68.2	61.9	55.9	52.5	49.1	45.7	42.2	38.6	34.9	31.1	27.4
-67.5°	56.1	53.3	50.5	47.5	44.4	41.3	38.2	34.9	31.6	28.2	24.7
-70°	50.0	47.6	45.0	42.4	39.7	36.9	34.1	31.1	28.2	25.2	22.1
-72.5°	43.9	41.8	39.5	37.2	34.9	32.4	29.9	27.4	24.7	22.1	19.4
-75°	37.8	35.9	34.0	32.0	30.0	27.9	25.7	23.5	21.3	19.0	16.7
-77.5°	31.5	30.0	28.4	26.7	25.0	23.3	21.5	19.6	17.8	15.9	14.0
-80°	25.2	24.0	22.7	21.4	20.0	18.6	17.2	15.8	14.3	12.8	11.2
-82.5°	18.9	18.0	17.1	16.1	15.1	14.0	13.0	11.9	10.8	9.6	8.5
-85°	12.7	12.0	11.4	10.8	10.1	9.4	8.7	7.9	7.2	6.4	5.6
-87.5°	6.3	6.0	5.7	5.4	5.0	4.7	4.3	4.0	3.6	3.2	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



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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°	2.4	2.0	1.6	1.2	0.8	0.4	0.0
85°	4.9	4.1	3.3	2.5	1.6	0.8	0.0
82.5°	7.3	6.1	4.9	3.7	2.5	1.2	0.0
80°	9.7	8.1	6.5	4.9	3.3	1.6	0.0
77.5°	12.0	10.1	8.1	6.1	4.1	2.0	0.0
75°	14.4	12.0	9.7	7.3	4.9	2.4	0.0
72.5°	16.7	14.0	11.2	8.5	5.6	2.8	0.0
70°	19.0	15.9	12.8	9.6	6.4	3.2	0.0
67.5°	21.3	17.8	14.3	10.8	7.2	3.6	0.0
65°	23.5	19.6	15.8	11.9	7.9	4.0	0.0
62.5°	25.7	21.5	17.2	13.0	8.7	4.3	0.0
60°	27.9	23.3	18.6	14.0	9.4	4.7	0.0
57.5°	30.0	25.0	20.0	15.1	10.1	5.0	0.0
55°	32.0	26.7	21.4	16.1	10.8	5.4	0.0
52.5°	34.0	28.4	22.7	17.1	11.4	5.7	0.0
50°	35.9	30.0	24.0	18.0	12.0	6.0	0.0
47.5°	37.8	31.5	25.2	18.9	12.7	6.3	0.0
45°	39.5	33.0	26.4	19.8	13.2	6.6	0.0
42.5°	41.2	34.4	27.6	20.7	13.8	6.9	0.0
40°	42.8	35.8	28.6	21.5	14.3	7.2	0.0
37.5°	44.4	37.1	29.7	22.2	14.8	7.5	0.0
35°	45.8	38.3	30.6	23.0	15.3	7.7	0.0
32.5°	47.2	39.4	31.6	23.7	15.8	7.9	0.0
30°	48.5	40.5	32.4	24.3	16.2	8.1	0.0
27.5°	49.7	41.5	33.2	24.9	16.6	8.3	0.0
25°	50.8	42.4	33.9	25.4	17.0	8.5	0.0
22.5°	51.8	43.2	34.6	25.9	17.3	8.7	0.0
20°	52.7	44.0	35.2	26.4	17.6	8.8	0.0
17.5°	53.5	44.6	35.7	26.8	17.8	9.0	0.0
15°	54.2	45.2	36.2	27.1	18.1	9.1	0.0
12.5°	54.8	45.7	36.6	27.4	18.3	9.2	0.0
10°	55.3	46.1	36.9	27.7	18.4	9.3	0.0
7.5°	55.7	46.4	37.2	27.9	18.5	9.3	0.0
5°	56.0	46.6	37.4	28.0	18.6	9.4	0.0
2.5°	56.1	46.8	37.5	28.1	18.7	9.4	0.0
0°	56.2	46.8	37.5	28.1	18.7	9.4	0.0
-2.5°	56.1	46.8	37.5	28.1	18.7	9.4	0.0
-5°	56.0	46.6	37.4	28.0	18.6	9.4	0.0
-7.5°	55.7	46.4	37.2	27.9	18.5	9.3	0.0
-10°	55.3	46.1	36.9	27.7	18.4	9.3	0.0
-12.5°	54.8	45.7	36.6	27.4	18.3	9.2	0.0
-15°	54.2	45.2	36.2	27.1	18.1	9.1	0.0
-17.5°	53.5	44.6	35.7	26.8	17.8	9.0	0.0
-20°	52.7	44.0	35.2	26.4	17.6	8.8	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	51.8	43.2	34.6	25.9	17.3	8.7	0.0
-25°	50.8	42.4	33.9	25.4	17.0	8.5	0.0
-27.5°	49.7	41.5	33.2	24.9	16.6	8.3	0.0
-30°	48.5	40.5	32.4	24.3	16.2	8.1	0.0
-32.5°	47.2	39.4	31.6	23.7	15.8	7.9	0.0
-35°	45.8	38.3	30.6	23.0	15.3	7.7	0.0
-37.5°	44.4	37.1	29.7	22.2	14.8	7.5	0.0
-40°	42.8	35.8	28.6	21.5	14.3	7.2	0.0
-42.5°	41.2	34.4	27.6	20.7	13.8	6.9	0.0
-45°	39.5	33.0	26.4	19.8	13.2	6.6	0.0
-47.5°	37.8	31.5	25.2	18.9	12.7	6.3	0.0
-50°	35.9	30.0	24.0	18.0	12.0	6.0	0.0
-52.5°	34.0	28.4	22.7	17.1	11.4	5.7	0.0
-55°	32.0	26.7	21.4	16.1	10.8	5.4	0.0
-57.5°	30.0	25.0	20.0	15.1	10.1	5.0	0.0
-60°	27.9	23.3	18.6	14.0	9.4	4.7	0.0
-62.5°	25.7	21.5	17.2	13.0	8.7	4.3	0.0
-65°	23.5	19.6	15.8	11.9	7.9	4.0	0.0
-67.5°	21.3	17.8	14.3	10.8	7.2	3.6	0.0
-70°	19.0	15.9	12.8	9.6	6.4	3.2	0.0
-72.5°	16.7	14.0	11.2	8.5	5.6	2.8	0.0
-75°	14.4	12.0	9.7	7.3	4.9	2.4	0.0
-77.5°	12.0	10.1	8.1	6.1	4.1	2.0	0.0
-80°	9.7	8.1	6.5	4.9	3.3	1.6	0.0
-82.5°	7.3	6.1	4.9	3.7	2.5	1.2	0.0
-85°	4.9	4.1	3.3	2.5	1.6	0.8	0.0
-87.5°	2.4	2.0	1.6	1.2	0.8	0.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)