

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: P699874 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/10/2023

Test Information

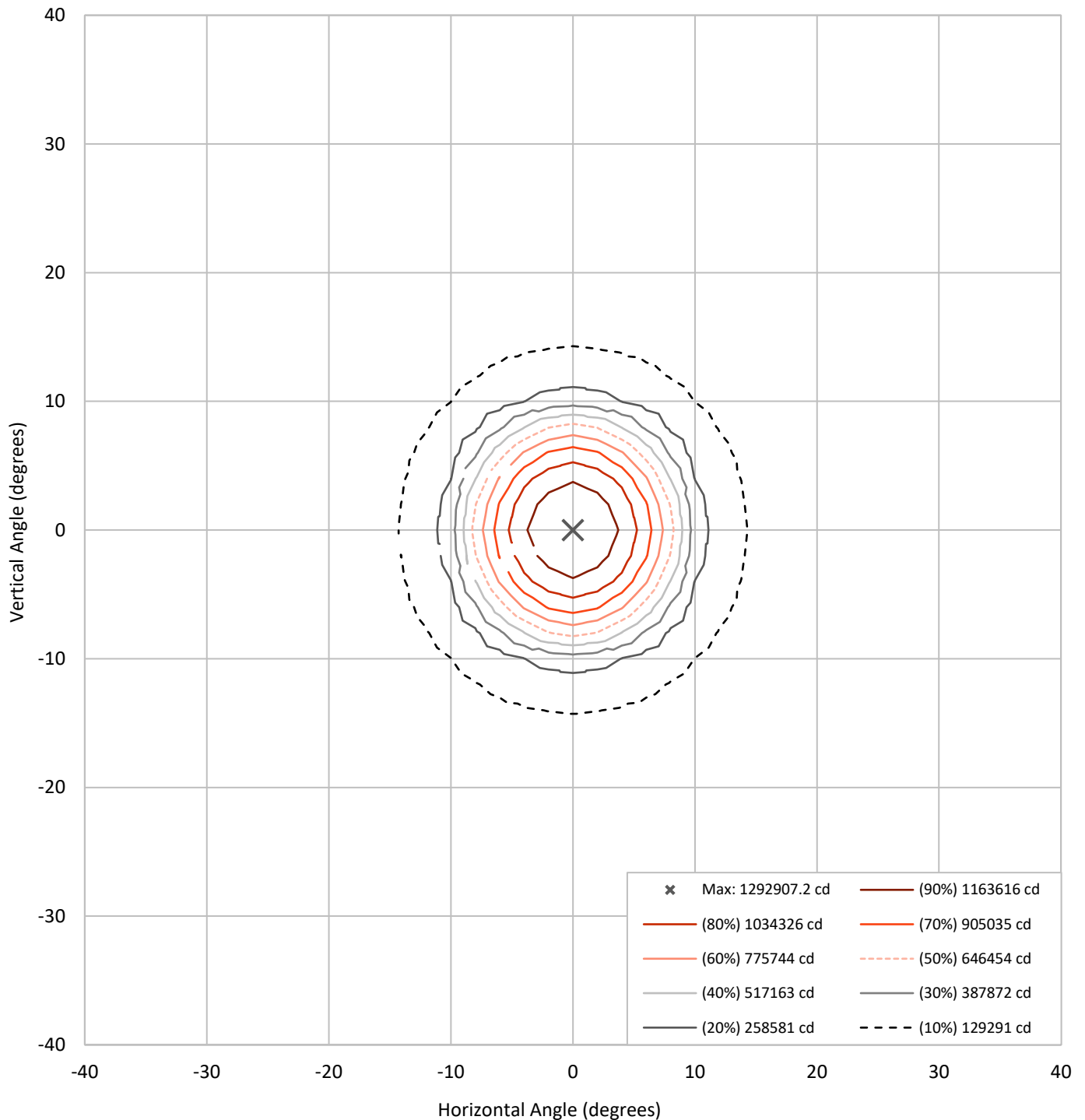
Test Method: LM-79-08
Report Number: P699874 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-50)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-40-80-3R-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 80 CRI LEDS AND 3R BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	164167.6 lumens	Max Intensity:	1292907.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	130.7 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	16.5°H x 16.5°V	Field Angle (10%):	28.4°H x 28.4°V
Beam Lumens:	60030.9 lumens	Field Lumens:	97586.8 lumens
Beam Efficiency:	36.6%	Field Efficiency:	59.4%
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



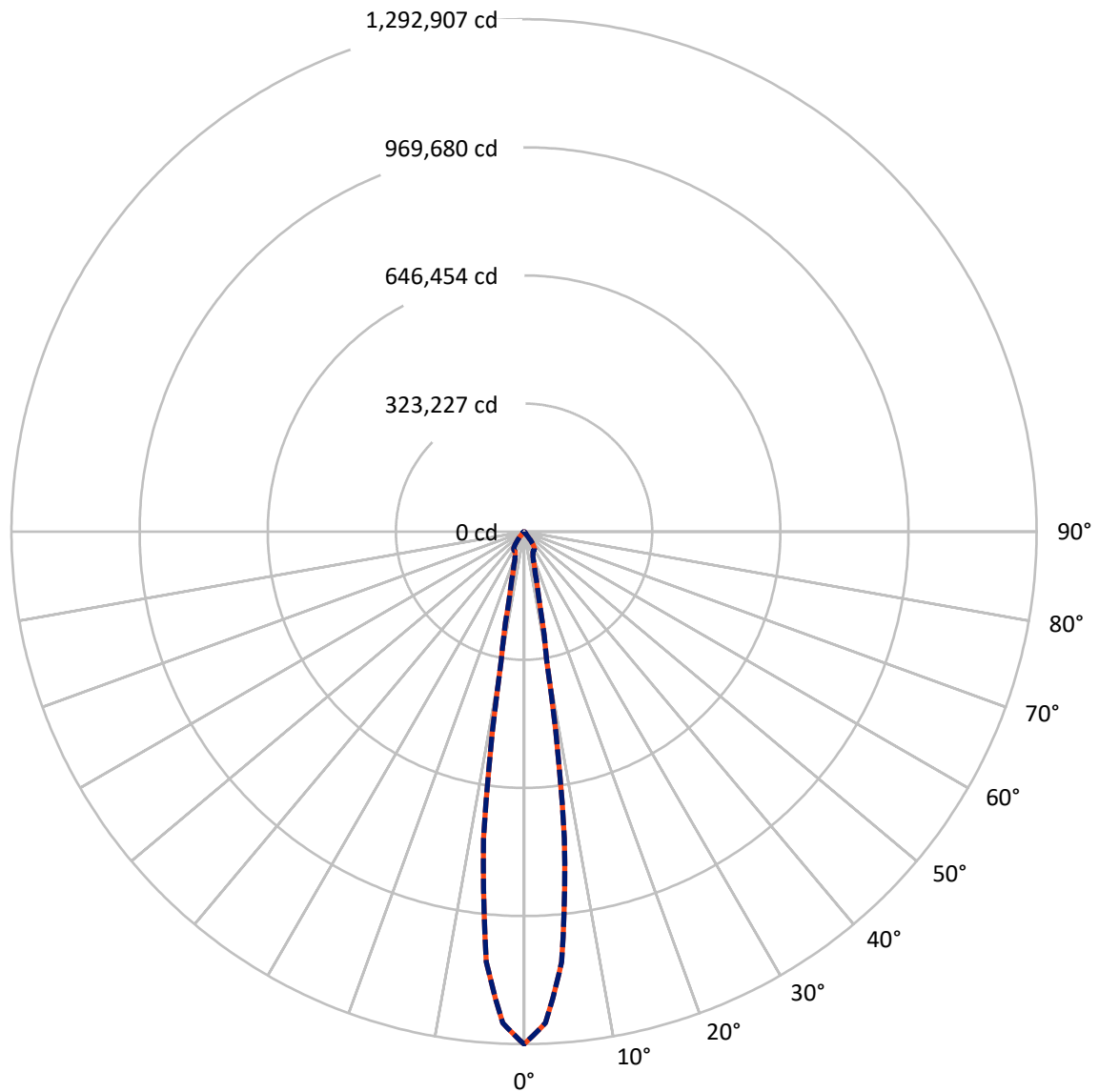
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Lumen Table

90	0.1	0.8		2.0		3.3		3.8		3.3		2.0		0.8		0.1
80	0.1	0.8		2.0		3.3		3.8		3.3		2.0		0.8		0.1
70	0.4	0.4	0.8	1.4	2.1	3.1	3.9	4.4	4.4	3.9	3.1	2.1	1.4	0.8	0.4	0.4
60		0.6	1.3	2.8	5.5	10.1	15.0	17.7	17.7	15.0	10.1	5.5	2.8	1.3	0.6	
50	0.6	0.8	2.3	6.3	15.5	25.3	51.9	86.4	86.4	51.9	25.3	15.5	6.3	2.3	0.8	0.6
40		1.1	3.9	13.5	33.5	214.0	683.2	1019.2	1019.2	683.2	214.0	33.5	13.5	3.9	1.1	
30	0.8	1.5	6.5	19.9	195.6	996.6	1510.1	1675.3	1675.3	1510.1	996.6	195.6	19.9	6.5	1.5	0.8
20		1.8	9.1	38.9	588.2	1417.9	1933.7	3483.6	3483.6	1933.7	1417.9	588.2	38.9	9.1	1.8	
10	0.9	1.9	10.4	63.5	848.8	1526.0	3391.8	21084.4	21084.4	3391.8	1526.0	848.8	63.5	10.4	1.9	0.9
0		1.9	10.4	63.5	848.8	1526.0	3391.8	21084.4	21084.4	3391.8	1526.0	848.8	63.5	10.4	1.9	
-10	0.8	1.8	9.1	38.9	588.2	1417.9	1933.7	3483.6	3483.6	1933.7	1417.9	588.2	38.9	9.1	1.8	0.8
-20		1.5	6.5	19.9	195.6	996.6	1510.1	1675.3	1675.3	1510.1	996.6	195.6	19.9	6.5	1.5	
-30	0.6	1.1	3.9	13.5	33.5	214.0	683.2	1019.2	1019.2	683.2	214.0	33.5	13.5	3.9	1.1	0.6
-40		0.8	2.3	6.3	15.5	25.3	51.9	86.4	86.4	51.9	25.3	15.5	6.3	2.3	0.8	
-50	0.4	0.6	1.3	2.8	5.5	10.1	15.0	17.7	17.7	15.0	10.1	5.5	2.8	1.3	0.6	0.4
-60		0.4	0.8	1.4	2.1	3.1	3.9	4.4	4.4	3.9	3.1	2.1	1.4	0.8	0.4	
-70	0.1	0.8		2.0		3.3		3.8		3.3		2.0		0.8		0.1
-80		0.8		2.0		3.3		3.8		3.3		2.0		0.8		
-90	0.1	0.8		2.0		3.3		3.8		3.3		2.0		0.8		0.1

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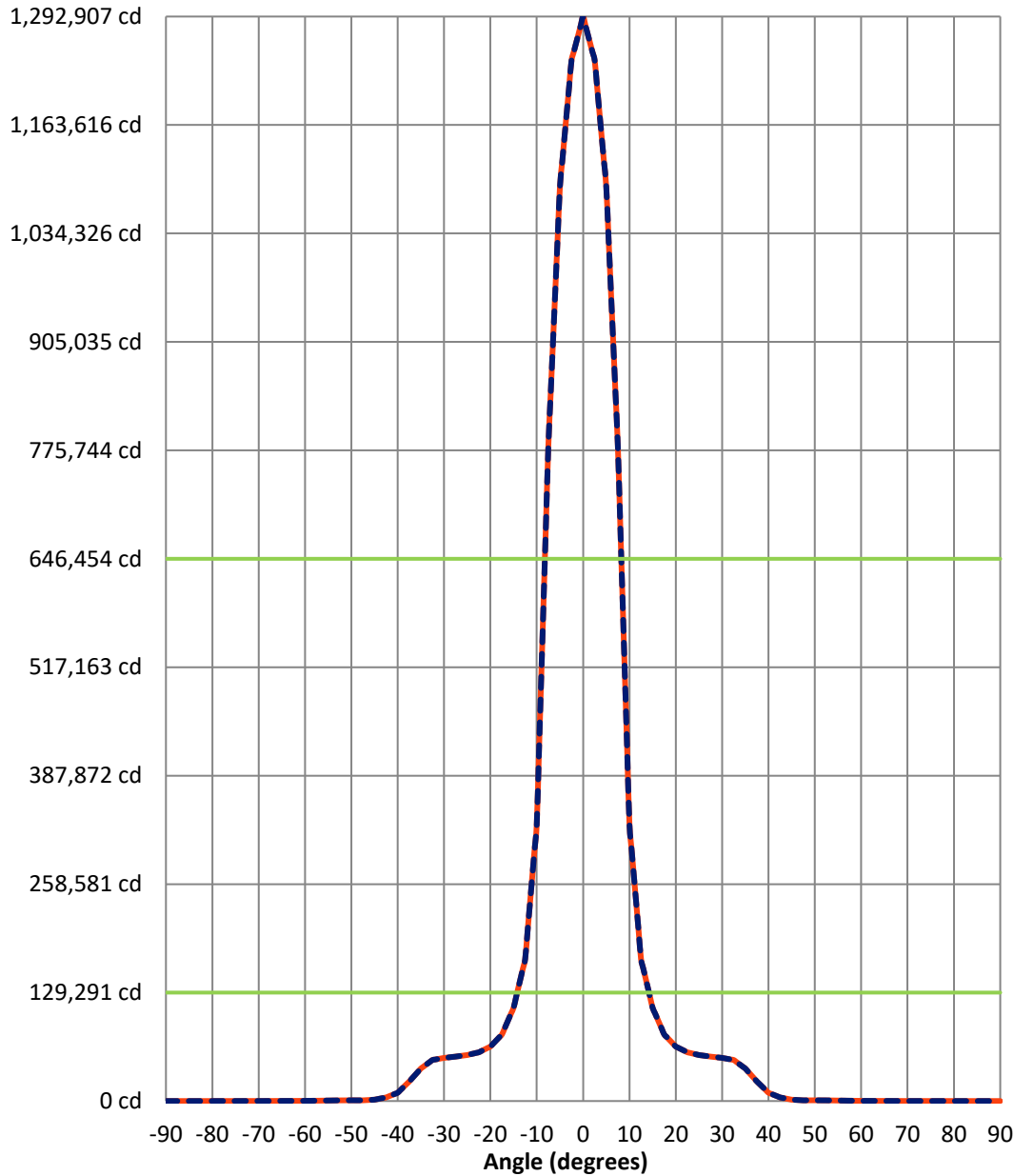
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 16.5°
 V Angle: 16.5°
 Lumens: 60030.9
 Efficiency: 36.6%

Field:
 H Angle: 28.4°
 V Angle: 28.4°
 Lumens: 97586.8
 Efficiency: 59.4%

Spill:
 Lumens: 66580.8
 Efficiency: 40.6%

- 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	9.4	9.4	9.4
80°	0.0	1.6	3.3	4.9	6.5	8.1	9.4	9.4	9.4	9.4	9.4
77.5°	0.0	2.0	4.1	6.1	8.1	9.4	9.4	9.4	9.4	9.4	10.3
75°	0.0	2.4	4.9	7.3	9.4	9.4	9.4	9.4	9.7	11.9	14.2
72.5°	0.0	2.8	5.6	8.5	9.4	9.4	9.4	10.1	12.8	15.4	18.0
70°	0.0	3.2	6.4	9.4	9.4	9.4	9.7	12.8	15.8	18.8	21.7
67.5°	0.0	3.6	7.2	9.4	9.4	9.4	11.9	15.4	18.8	22.2	25.5
65°	0.0	4.0	7.9	9.4	9.4	10.3	14.2	18.0	21.7	25.5	29.2
62.5°	0.0	4.3	8.7	9.4	9.4	12.1	16.3	20.5	24.7	28.8	32.8
60°	0.0	4.7	9.4	9.4	9.4	13.9	18.5	23.0	27.5	32.0	36.4
57.5°	0.0	5.0	9.4	9.4	10.7	15.6	20.6	25.5	30.3	35.1	39.8
55°	0.0	5.4	9.4	9.4	12.1	17.3	22.6	27.8	33.0	38.2	43.2
52.5°	0.0	5.7	9.4	9.4	13.4	19.0	24.6	30.2	35.7	41.1	46.5
50°	0.0	6.0	9.4	9.4	14.6	20.6	26.5	32.4	38.2	44.0	52.5
47.5°	0.0	6.3	9.4	9.6	15.9	22.1	28.4	34.6	40.7	46.7	58.8
45°	0.0	6.6	9.4	10.5	17.0	23.6	30.2	36.7	43.1	52.1	64.8
42.5°	0.0	6.9	9.4	11.3	18.2	25.0	31.9	38.6	45.3	57.2	68.0
40°	0.0	7.2	9.4	12.1	19.2	26.4	33.5	40.5	48.2	62.2	70.8
37.5°	0.0	7.5	9.4	12.9	20.3	27.7	35.1	42.3	52.4	66.2	73.4
35°	0.0	7.7	9.4	13.6	21.2	28.9	36.5	44.0	56.4	68.5	77.8
32.5°	0.0	7.9	9.4	14.3	22.2	30.0	37.9	45.7	60.1	70.5	84.8
30°	0.0	8.1	9.4	14.9	23.0	31.1	39.2	47.5	63.6	72.5	91.4
27.5°	0.0	8.3	9.4	15.5	23.8	32.1	40.4	50.3	66.2	74.3	97.6
25°	0.0	8.5	9.4	16.1	24.5	33.0	41.5	52.9	67.7	78.2	103.4
22.5°	0.0	8.7	9.4	16.6	25.2	33.9	42.5	55.3	69.0	82.8	112.0
20°	0.0	8.8	9.4	17.0	25.8	34.6	43.4	57.4	70.2	87.0	119.8
17.5°	0.0	9.0	9.4	17.4	26.3	35.3	44.2	59.3	71.3	90.7	126.8
15°	0.0	9.1	9.4	17.7	26.8	35.9	44.9	61.0	72.3	93.9	132.8
12.5°	0.0	9.2	9.4	18.0	27.2	36.4	45.4	62.4	73.1	96.7	138.0
10°	0.0	9.3	9.4	18.3	27.5	36.8	45.9	63.5	73.7	99.0	142.2
7.5°	0.0	9.3	9.4	18.5	27.8	37.1	46.3	64.4	74.2	100.7	145.5
5°	0.0	9.4	9.4	18.6	28.0	37.3	46.6	65.1	74.6	102.0	147.9
2.5°	0.0	9.4	9.4	18.7	28.1	37.5	46.7	65.5	74.8	102.7	149.3
0°	0.0	9.4	9.4	18.7	28.1	37.5	46.7	65.5	74.8	102.7	149.3
-2.5°	0.0	9.4	9.4	18.7	28.1	37.5	46.7	65.5	74.8	102.7	149.3
-5°	0.0	9.4	9.4	18.6	28.0	37.3	46.6	65.1	74.6	102.0	147.9
-7.5°	0.0	9.3	9.4	18.5	27.8	37.1	46.3	64.4	74.2	100.7	145.5
-10°	0.0	9.3	9.4	18.3	27.5	36.8	45.9	63.5	73.7	99.0	142.2
-12.5°	0.0	9.2	9.4	18.0	27.2	36.4	45.4	62.4	73.1	96.7	138.0
-15°	0.0	9.1	9.4	17.7	26.8	35.9	44.9	61.0	72.3	93.9	132.8
-17.5°	0.0	9.0	9.4	17.4	26.3	35.3	44.2	59.3	71.3	90.7	126.8
-20°	0.0	8.8	9.4	17.0	25.8	34.6	43.4	57.4	70.2	87.0	119.8



REPORT NUMBER: P699874 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3R-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	9.4	16.6	25.2	33.9	42.5	55.3	69.0	82.8	112.0
-25°	0.0	8.5	9.4	16.1	24.5	33.0	41.5	52.9	67.7	78.2	103.4
-27.5°	0.0	8.3	9.4	15.5	23.8	32.1	40.4	50.3	66.2	74.3	97.6
-30°	0.0	8.1	9.4	14.9	23.0	31.1	39.2	47.5	63.6	72.5	91.4
-32.5°	0.0	7.9	9.4	14.3	22.2	30.0	37.9	45.7	60.1	70.5	84.8
-35°	0.0	7.7	9.4	13.6	21.2	28.9	36.5	44.0	56.4	68.5	77.8
-37.5°	0.0	7.5	9.4	12.9	20.3	27.7	35.1	42.3	52.4	66.2	73.4
-40°	0.0	7.2	9.4	12.1	19.2	26.4	33.5	40.5	48.2	62.2	70.8
-42.5°	0.0	6.9	9.4	11.3	18.2	25.0	31.9	38.6	45.3	57.2	68.0
-45°	0.0	6.6	9.4	10.5	17.0	23.6	30.2	36.7	43.1	52.1	64.8
-47.5°	0.0	6.3	9.4	9.6	15.9	22.1	28.4	34.6	40.7	46.7	58.8
-50°	0.0	6.0	9.4	9.4	14.6	20.6	26.5	32.4	38.2	44.0	52.5
-52.5°	0.0	5.7	9.4	9.4	13.4	19.0	24.6	30.2	35.7	41.1	46.5
-55°	0.0	5.4	9.4	9.4	12.1	17.3	22.6	27.8	33.0	38.2	43.2
-57.5°	0.0	5.0	9.4	9.4	10.7	15.6	20.6	25.5	30.3	35.1	39.8
-60°	0.0	4.7	9.4	9.4	9.4	13.9	18.5	23.0	27.5	32.0	36.4
-62.5°	0.0	4.3	8.7	9.4	9.4	12.1	16.3	20.5	24.7	28.8	32.8
-65°	0.0	4.0	7.9	9.4	9.4	10.3	14.2	18.0	21.7	25.5	29.2
-67.5°	0.0	3.6	7.2	9.4	9.4	9.4	11.9	15.4	18.8	22.2	25.5
-70°	0.0	3.2	6.4	9.4	9.4	9.4	9.7	12.8	15.8	18.8	21.7
-72.5°	0.0	2.8	5.6	8.5	9.4	9.4	9.4	10.1	12.8	15.4	18.0
-75°	0.0	2.4	4.9	7.3	9.4	9.4	9.4	9.4	9.7	11.9	14.2
-77.5°	0.0	2.0	4.1	6.1	8.1	9.4	9.4	9.4	9.4	9.4	10.3
-80°	0.0	1.6	3.3	4.9	6.5	8.1	9.4	9.4	9.4	9.4	9.4
-82.5°	0.0	1.2	2.5	3.7	4.9	6.1	7.3	8.5	9.4	9.4	9.4
-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



REPORT NUMBER: P699874 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3R-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	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
82.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.6	10.5	11.3	12.1	12.9
80°	9.4	9.4	10.7	12.1	13.4	14.6	15.9	17.0	18.2	19.2	20.3
77.5°	12.1	13.9	15.6	17.3	19.0	20.6	22.1	23.6	25.0	26.4	27.7
75°	16.3	18.5	20.6	22.6	24.6	26.5	28.4	30.2	31.9	33.5	35.1
72.5°	20.5	23.0	25.5	27.8	30.2	32.4	34.6	36.7	38.6	40.5	42.3
70°	24.7	27.5	30.3	33.0	35.7	38.2	40.7	43.1	45.3	48.2	52.4
67.5°	28.8	32.0	35.1	38.2	41.1	44.0	46.7	52.1	57.2	62.2	66.2
65°	32.8	36.4	39.8	43.2	46.5	52.5	58.8	64.8	68.0	70.8	73.4
62.5°	36.8	40.7	44.4	49.5	56.8	63.8	68.1	71.4	74.5	82.9	91.6
60°	40.7	44.9	51.2	59.3	66.4	70.2	73.9	82.8	93.2	103.4	119.3
57.5°	44.4	51.2	60.2	67.3	71.5	77.2	89.3	101.1	118.7	136.8	152.4
55°	49.5	59.3	67.3	72.0	79.8	93.3	108.6	129.7	150.0	161.8	173.0
52.5°	56.8	66.4	71.5	79.8	94.6	113.0	136.4	155.4	168.6	186.8	219.3
50°	63.8	70.2	77.2	93.3	113.0	138.7	158.1	172.7	201.6	237.9	292.5
47.5°	68.1	73.9	89.3	108.6	136.4	158.1	174.0	209.0	249.1	322.8	397.3
45°	71.4	82.8	101.1	129.7	155.4	172.7	209.0	252.9	338.1	428.4	542.6
42.5°	74.5	93.2	118.7	150.0	168.6	201.6	249.1	338.1	439.5	565.3	677.8
40°	82.9	103.4	136.8	161.8	186.8	237.9	322.8	428.4	565.3	687.9	799.9
37.5°	91.6	119.3	152.4	173.0	219.3	292.5	397.3	542.6	677.8	799.9	850.5
35°	99.9	134.4	162.3	193.6	250.3	359.1	497.6	647.8	779.4	846.3	876.3
32.5°	110.8	148.7	171.7	220.8	306.4	431.0	595.3	738.7	833.8	878.5	865.4
30°	123.1	157.2	184.8	246.4	361.8	516.9	678.7	813.2	870.7	868.6	1144.2
27.5°	134.4	164.7	206.8	287.8	418.4	597.5	754.2	845.7	874.0	957.2	1561.9
25°	144.9	171.7	227.1	332.1	487.6	665.4	813.1	876.0	865.9	1323.9	2698.8
22.5°	152.6	178.3	245.8	372.7	551.2	725.3	839.0	874.4	998.2	1702.9	3951.9
20°	157.8	193.6	272.3	412.6	608.9	779.8	862.6	868.0	1287.4	2772.1	5901.2
17.5°	162.5	207.3	302.4	459.9	654.9	814.7	879.4	862.3	1547.7	3736.7	8038.9
15°	166.5	219.3	328.7	501.3	694.3	831.8	874.8	1043.9	2091.1	4846.7	10012.6
12.5°	170.0	229.5	351.1	536.6	727.9	846.4	870.8	1225.8	2768.1	6354.6	13995.7
10°	172.8	237.9	369.6	565.8	755.6	858.5	867.5	1376.4	3329.5	7607.5	17312.6
7.5°	175.0	244.4	384.0	588.6	777.3	868.0	864.9	1494.6	3771.1	8594.5	19930.2
5°	176.6	249.1	394.4	605.0	792.9	874.8	863.1	1579.7	4089.2	9306.3	21821.0
2.5°	177.6	252.0	400.6	614.8	802.3	878.9	862.0	1631.0	4281.1	9736.2	22964.2
0°	177.9	252.9	402.7	618.1	805.4	880.3	861.6	1648.2	4345.3	9880.0	23346.7
-2.5°	177.6	252.0	400.6	614.8	802.3	878.9	862.0	1631.0	4281.1	9736.2	22964.2
-5°	176.6	249.1	394.4	605.0	792.9	874.8	863.1	1579.7	4089.2	9306.3	21821.0
-7.5°	175.0	244.4	384.0	588.6	777.3	868.0	864.9	1494.6	3771.1	8594.5	19930.2
-10°	172.8	237.9	369.6	565.8	755.6	858.5	867.5	1376.4	3329.5	7607.5	17312.6
-12.5°	170.0	229.5	351.1	536.6	727.9	846.4	870.8	1225.8	2768.1	6354.6	13995.7
-15°	166.5	219.3	328.7	501.3	694.3	831.8	874.8	1043.9	2091.1	4846.7	10012.6
-17.5°	162.5	207.3	302.4	459.9	654.9	814.7	879.4	862.3	1547.7	3736.7	8038.9
-20°	157.8	193.6	272.3	412.6	608.9	779.8	862.6	868.0	1287.4	2772.1	5901.2



REPORT NUMBER: P699874 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3R-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	152.6	178.3	245.8	372.7	551.2	725.3	839.0	874.4	998.2	1702.9	3951.9
-25°	144.9	171.7	227.1	332.1	487.6	665.4	813.1	876.0	865.9	1323.9	2698.8
-27.5°	134.4	164.7	206.8	287.8	418.4	597.5	754.2	845.7	874.0	957.2	1561.9
-30°	123.1	157.2	184.8	246.4	361.8	516.9	678.7	813.2	870.7	868.6	1144.2
-32.5°	110.8	148.7	171.7	220.8	306.4	431.0	595.3	738.7	833.8	878.5	865.4
-35°	99.9	134.4	162.3	193.6	250.3	359.1	497.6	647.8	779.4	846.3	876.3
-37.5°	91.6	119.3	152.4	173.0	219.3	292.5	397.3	542.6	677.8	799.9	850.5
-40°	82.9	103.4	136.8	161.8	186.8	237.9	322.8	428.4	565.3	687.9	799.9
-42.5°	74.5	93.2	118.7	150.0	168.6	201.6	249.1	338.1	439.5	565.3	677.8
-45°	71.4	82.8	101.1	129.7	155.4	172.7	209.0	252.9	338.1	428.4	542.6
-47.5°	68.1	73.9	89.3	108.6	136.4	158.1	174.0	209.0	249.1	322.8	397.3
-50°	63.8	70.2	77.2	93.3	113.0	138.7	158.1	172.7	201.6	237.9	292.5
-52.5°	56.8	66.4	71.5	79.8	94.6	113.0	136.4	155.4	168.6	186.8	219.3
-55°	49.5	59.3	67.3	72.0	79.8	93.3	108.6	129.7	150.0	161.8	173.0
-57.5°	44.4	51.2	60.2	67.3	71.5	77.2	89.3	101.1	118.7	136.8	152.4
-60°	40.7	44.9	51.2	59.3	66.4	70.2	73.9	82.8	93.2	103.4	119.3
-62.5°	36.8	40.7	44.4	49.5	56.8	63.8	68.1	71.4	74.5	82.9	91.6
-65°	32.8	36.4	39.8	43.2	46.5	52.5	58.8	64.8	68.0	70.8	73.4
-67.5°	28.8	32.0	35.1	38.2	41.1	44.0	46.7	52.1	57.2	62.2	66.2
-70°	24.7	27.5	30.3	33.0	35.7	38.2	40.7	43.1	45.3	48.2	52.4
-72.5°	20.5	23.0	25.5	27.8	30.2	32.4	34.6	36.7	38.6	40.5	42.3
-75°	16.3	18.5	20.6	22.6	24.6	26.5	28.4	30.2	31.9	33.5	35.1
-77.5°	12.1	13.9	15.6	17.3	19.0	20.6	22.1	23.6	25.0	26.4	27.7
-80°	9.4	9.4	10.7	12.1	13.4	14.6	15.9	17.0	18.2	19.2	20.3
-82.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.6	10.5	11.3	12.1	12.9
-85°	8.7	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
-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: P699874 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3R-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°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
82.5°	13.6	14.3	14.9	15.5	16.1	16.6	17.0	17.4	17.7	18.0	18.3
80°	21.2	22.2	23.0	23.8	24.5	25.2	25.8	26.3	26.8	27.2	27.5
77.5°	28.9	30.0	31.1	32.1	33.0	33.9	34.6	35.3	35.9	36.4	36.8
75°	36.5	37.9	39.2	40.4	41.5	42.5	43.4	44.2	44.9	45.4	45.9
72.5°	44.0	45.7	47.5	50.3	52.9	55.3	57.4	59.3	61.0	62.4	63.5
70°	56.4	60.1	63.6	66.2	67.7	69.0	70.2	71.3	72.3	73.1	73.7
67.5°	68.5	70.5	72.5	74.3	78.2	82.8	87.0	90.7	93.9	96.7	99.0
65°	77.8	84.8	91.4	97.6	103.4	112.0	119.8	126.8	132.8	138.0	142.2
62.5°	99.9	110.8	123.1	134.4	144.9	152.6	157.8	162.5	166.5	170.0	172.8
60°	134.4	148.7	157.2	164.7	171.7	178.3	193.6	207.3	219.3	229.5	237.9
57.5°	162.3	171.7	184.8	206.8	227.1	245.8	272.3	302.4	328.7	351.1	369.6
55°	193.6	220.8	246.4	287.8	332.1	372.7	412.6	459.9	501.3	536.6	565.8
52.5°	250.3	306.4	361.8	418.4	487.6	551.2	608.9	654.9	694.3	727.9	755.6
50°	359.1	431.0	516.9	597.5	665.4	725.3	779.8	814.7	831.8	846.4	858.5
47.5°	497.6	595.3	678.7	754.2	813.1	839.0	862.6	879.4	874.8	870.8	867.5
45°	647.8	738.7	813.2	845.7	876.0	874.4	868.0	862.3	1043.9	1225.8	1376.4
42.5°	779.4	833.8	870.7	874.0	865.9	998.2	1287.4	1547.7	2091.1	2768.1	3329.5
40°	846.3	878.5	868.6	957.2	1323.9	1702.9	2772.1	3736.7	4846.7	6354.6	7607.5
37.5°	876.3	865.4	1144.2	1561.9	2698.8	3951.9	5901.2	8038.9	10012.6	13995.7	17312.6
35°	864.3	1238.8	1849.6	3376.3	5311.9	8070.6	11665.9	17282.2	22277.7	27075.7	31211.0
32.5°	1238.8	2016.7	3719.4	6395.0	9550.5	16272.2	22929.0	29809.6	36005.9	40501.5	43486.0
30°	1849.6	3719.4	6759.3	10904.5	19091.7	27292.5	35485.1	41552.5	45998.2	49183.2	49977.1
27.5°	3376.3	6395.0	10904.5	20041.3	29541.0	38899.5	44724.4	49232.2	50406.6	51436.7	51983.6
25°	5311.9	9550.5	19091.7	29541.0	39677.4	46341.1	49844.7	51252.5	52122.5	52828.0	53515.9
22.5°	8070.6	16272.2	27292.5	38899.5	46341.1	50051.8	51594.2	52546.8	53502.6	54434.0	55495.9
20°	11665.9	22929.0	35485.1	44724.4	49844.7	51594.2	52690.6	53867.3	55109.7	56879.8	58744.1
17.5°	17282.2	29809.6	41552.5	49232.2	51252.5	52546.8	53867.3	55448.0	57597.2	61152.9	64760.2
15°	22277.7	36005.9	45998.2	50406.6	52122.5	53502.6	55109.7	57597.2	61979.1	68249.2	76742.5
12.5°	27075.7	40501.5	49183.2	51436.7	52828.0	54434.0	56879.8	61152.9	68249.2	78805.3	99029.3
10°	31211.0	43486.0	49977.1	51983.6	53515.9	55495.9	58744.1	64760.2	76742.5	99029.3	128470.7
7.5°	34481.9	45853.2	50609.0	52419.3	54096.2	56611.7	61387.7	70793.5	89188.7	119963.3	169899.2
5°	36848.8	47570.0	51068.5	52737.3	54521.6	57434.3	63351.7	75500.4	101123.2	143516.8	226193.6
2.5°	38281.6	48610.8	51347.7	52930.9	54781.5	57938.9	64563.7	78428.7	108637.5	161830.3	300971.5
0°	38761.3	48959.6	51441.3	52995.9	54868.9	58109.1	64973.6	79423.6	111208.1	169204.9	330009.3
-2.5°	38281.6	48610.8	51347.7	52930.9	54781.5	57938.9	64563.7	78428.7	108637.5	161830.3	300971.5
-5°	36848.8	47570.0	51068.5	52737.3	54521.6	57434.3	63351.7	75500.4	101123.2	143516.8	226193.6
-7.5°	34481.9	45853.2	50609.0	52419.3	54096.2	56611.7	61387.7	70793.5	89188.7	119963.3	169899.2
-10°	31211.0	43486.0	49977.1	51983.6	53515.9	55495.9	58744.1	64760.2	76742.5	99029.3	128470.7
-12.5°	27075.7	40501.5	49183.2	51436.7	52828.0	54434.0	56879.8	61152.9	68249.2	78805.3	99029.3
-15°	22277.7	36005.9	45998.2	50406.6	52122.5	53502.6	55109.7	57597.2	61979.1	68249.2	76742.5
-17.5°	17282.2	29809.6	41552.5	49232.2	51252.5	52546.8	53867.3	55448.0	57597.2	61152.9	64760.2
-20°	11665.9	22929.0	35485.1	44724.4	49844.7	51594.2	52690.6	53867.3	55109.7	56879.8	58744.1



REPORT NUMBER: P699874 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3R-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8070.6	16272.2	27292.5	38899.5	46341.1	50051.8	51594.2	52546.8	53502.6	54434.0	55495.9
-25°	5311.9	9550.5	19091.7	29541.0	39677.4	46341.1	49844.7	51252.5	52122.5	52828.0	53515.9
-27.5°	3376.3	6395.0	10904.5	20041.3	29541.0	38899.5	44724.4	49232.2	50406.6	51436.7	51983.6
-30°	1849.6	3719.4	6759.3	10904.5	19091.7	27292.5	35485.1	41552.5	45998.2	49183.2	49977.1
-32.5°	1238.8	2016.7	3719.4	6395.0	9550.5	16272.2	22929.0	29809.6	36005.9	40501.5	43486.0
-35°	864.3	1238.8	1849.6	3376.3	5311.9	8070.6	11665.9	17282.2	22277.7	27075.7	31211.0
-37.5°	876.3	865.4	1144.2	1561.9	2698.8	3951.9	5901.2	8038.9	10012.6	13995.7	17312.6
-40°	846.3	878.5	868.6	957.2	1323.9	1702.9	2772.1	3736.7	4846.7	6354.6	7607.5
-42.5°	779.4	833.8	870.7	874.0	865.9	998.2	1287.4	1547.7	2091.1	2768.1	3329.5
-45°	647.8	738.7	813.2	845.7	876.0	874.4	868.0	862.3	1043.9	1225.8	1376.4
-47.5°	497.6	595.3	678.7	754.2	813.1	839.0	862.6	879.4	874.8	870.8	867.5
-50°	359.1	431.0	516.9	597.5	665.4	725.3	779.8	814.7	831.8	846.4	858.5
-52.5°	250.3	306.4	361.8	418.4	487.6	551.2	608.9	654.9	694.3	727.9	755.6
-55°	193.6	220.8	246.4	287.8	332.1	372.7	412.6	459.9	501.3	536.6	565.8
-57.5°	162.3	171.7	184.8	206.8	227.1	245.8	272.3	302.4	328.7	351.1	369.6
-60°	134.4	148.7	157.2	164.7	171.7	178.3	193.6	207.3	219.3	229.5	237.9
-62.5°	99.9	110.8	123.1	134.4	144.9	152.6	157.8	162.5	166.5	170.0	172.8
-65°	77.8	84.8	91.4	97.6	103.4	112.0	119.8	126.8	132.8	138.0	142.2
-67.5°	68.5	70.5	72.5	74.3	78.2	82.8	87.0	90.7	93.9	96.7	99.0
-70°	56.4	60.1	63.6	66.2	67.7	69.0	70.2	71.3	72.3	73.1	73.7
-72.5°	44.0	45.7	47.5	50.3	52.9	55.3	57.4	59.3	61.0	62.4	63.5
-75°	36.5	37.9	39.2	40.4	41.5	42.5	43.4	44.2	44.9	45.4	45.9
-77.5°	28.9	30.0	31.1	32.1	33.0	33.9	34.6	35.3	35.9	36.4	36.8
-80°	21.2	22.2	23.0	23.8	24.5	25.2	25.8	26.3	26.8	27.2	27.5
-82.5°	13.6	14.3	14.9	15.5	16.1	16.6	17.0	17.4	17.7	18.0	18.3
-85°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
-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: P699874 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3R-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°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
82.5°	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.3	18.0	17.7	17.4
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°	64.4	65.1	65.5	65.6	65.5	65.1	64.4	63.5	62.4	61.0	59.3
70°	74.2	74.6	74.8	74.9	74.8	74.6	74.2	73.7	73.1	72.3	71.3
67.5°	100.7	102.0	102.7	103.0	102.7	102.0	100.7	99.0	96.7	93.9	90.7
65°	145.5	147.9	149.3	149.8	149.3	147.9	145.5	142.2	138.0	132.8	126.8
62.5°	175.0	176.6	177.6	177.9	177.6	176.6	175.0	172.8	170.0	166.5	162.5
60°	244.4	249.1	252.0	252.9	252.0	249.1	244.4	237.9	229.5	219.3	207.3
57.5°	384.0	394.4	400.6	402.7	400.6	394.4	384.0	369.6	351.1	328.7	302.4
55°	588.6	605.0	614.8	618.1	614.8	605.0	588.6	565.8	536.6	501.3	459.9
52.5°	777.3	792.9	802.3	805.4	802.3	792.9	777.3	755.6	727.9	694.3	654.9
50°	868.0	874.8	878.9	880.3	878.9	874.8	868.0	858.5	846.4	831.8	814.7
47.5°	864.9	863.1	862.0	861.6	862.0	863.1	864.9	867.5	870.8	874.8	879.4
45°	1494.6	1579.7	1631.0	1648.2	1631.0	1579.7	1494.6	1376.4	1225.8	1043.9	862.3
42.5°	3771.1	4089.2	4281.1	4345.3	4281.1	4089.2	3771.1	3329.5	2768.1	2091.1	1547.7
40°	8594.5	9306.3	9736.2	9880.0	9736.2	9306.3	8594.5	7607.5	6354.6	4846.7	3736.7
37.5°	19930.2	21821.0	22964.2	23346.7	22964.2	21821.0	19930.2	17312.6	13995.7	10012.6	8038.9
35°	34481.9	36848.8	38281.6	38761.3	38281.6	36848.8	34481.9	31211.0	27075.7	22277.7	17282.2
32.5°	45853.2	47570.0	48610.8	48959.6	48610.8	47570.0	45853.2	43486.0	40501.5	36005.9	29809.6
30°	50609.0	51068.5	51347.7	51441.3	51347.7	51068.5	50609.0	49977.1	49183.2	45998.2	41552.5
27.5°	52419.3	52737.3	52930.9	52995.9	52930.9	52737.3	52419.3	51983.6	51436.7	50406.6	49232.2
25°	54096.2	54521.6	54781.5	54868.9	54781.5	54521.6	54096.2	53515.9	52828.0	52122.5	51252.5
22.5°	56611.7	57434.3	57938.9	58109.1	57938.9	57434.3	56611.7	55495.9	54434.0	53502.6	52546.8
20°	61387.7	63351.7	64563.7	64973.6	64563.7	63351.7	61387.7	58744.1	56879.8	55109.7	53867.3
17.5°	70793.5	75500.4	78428.7	79423.6	78428.7	75500.4	70793.5	64760.2	61152.9	57597.2	55448.0
15°	89188.7	101123.2	108637.5	111208.1	108637.5	101123.2	89188.7	76742.5	68249.2	61979.1	57597.2
12.5°	119963.3	143516.8	161830.3	169204.9	161830.3	143516.8	119963.3	99029.3	78805.3	68249.2	61152.9
10°	169899.2	226193.6	300971.5	330009.3	300971.5	226193.6	169899.2	128470.7	99029.3	76742.5	64760.2
7.5°	273644.0	489113.7	708197.9	780643.1	708197.9	489113.7	273644.0	169899.2	119963.3	89188.7	70793.5
5°	489113.7	858474.1	#####	#####	#####	858474.1	489113.7	226193.6	143516.8	101123.2	75500.4
2.5°	708197.9	#####	#####	#####	#####	708197.9	300971.5	161830.3	108637.5	78428.7	
0°	780643.1	#####	#####	#####	#####	780643.1	330009.3	169204.9	111208.1	79423.6	
-2.5°	708197.9	#####	#####	#####	#####	708197.9	300971.5	161830.3	108637.5	78428.7	
-5°	489113.7	858474.1	#####	#####	#####	858474.1	489113.7	226193.6	143516.8	101123.2	75500.4
-7.5°	273644.0	489113.7	708197.9	780643.1	708197.9	489113.7	273644.0	169899.2	119963.3	89188.7	70793.5
-10°	169899.2	226193.6	300971.5	330009.3	300971.5	226193.6	169899.2	128470.7	99029.3	76742.5	64760.2
-12.5°	119963.3	143516.8	161830.3	169204.9	161830.3	143516.8	119963.3	99029.3	78805.3	68249.2	61152.9
-15°	89188.7	101123.2	108637.5	111208.1	108637.5	101123.2	89188.7	76742.5	68249.2	61979.1	57597.2
-17.5°	70793.5	75500.4	78428.7	79423.6	78428.7	75500.4	70793.5	64760.2	61152.9	57597.2	55448.0
-20°	61387.7	63351.7	64563.7	64973.6	64563.7	63351.7	61387.7	58744.1	56879.8	55109.7	53867.3



REPORT NUMBER: P699874 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3R-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	56611.7	57434.3	57938.9	58109.1	57938.9	57434.3	56611.7	55495.9	54434.0	53502.6	52546.8
-25°	54096.2	54521.6	54781.5	54868.9	54781.5	54521.6	54096.2	53515.9	52828.0	52122.5	51252.5
-27.5°	52419.3	52737.3	52930.9	52995.9	52930.9	52737.3	52419.3	51983.6	51436.7	50406.6	49232.2
-30°	50609.0	51068.5	51347.7	51441.3	51347.7	51068.5	50609.0	49977.1	49183.2	45998.2	41552.5
-32.5°	45853.2	47570.0	48610.8	48959.6	48610.8	47570.0	45853.2	43486.0	40501.5	36005.9	29809.6
-35°	34481.9	36848.8	38281.6	38761.3	38281.6	36848.8	34481.9	31211.0	27075.7	22277.7	17282.2
-37.5°	19930.2	21821.0	22964.2	23346.7	22964.2	21821.0	19930.2	17312.6	13995.7	10012.6	8038.9
-40°	8594.5	9306.3	9736.2	9880.0	9736.2	9306.3	8594.5	7607.5	6354.6	4846.7	3736.7
-42.5°	3771.1	4089.2	4281.1	4345.3	4281.1	4089.2	3771.1	3329.5	2768.1	2091.1	1547.7
-45°	1494.6	1579.7	1631.0	1648.2	1631.0	1579.7	1494.6	1376.4	1225.8	1043.9	862.3
-47.5°	864.9	863.1	862.0	861.6	862.0	863.1	864.9	867.5	870.8	874.8	879.4
-50°	868.0	874.8	878.9	880.3	878.9	874.8	868.0	858.5	846.4	831.8	814.7
-52.5°	777.3	792.9	802.3	805.4	802.3	792.9	777.3	755.6	727.9	694.3	654.9
-55°	588.6	605.0	614.8	618.1	614.8	605.0	588.6	565.8	536.6	501.3	459.9
-57.5°	384.0	394.4	400.6	402.7	400.6	394.4	384.0	369.6	351.1	328.7	302.4
-60°	244.4	249.1	252.0	252.9	252.0	249.1	244.4	237.9	229.5	219.3	207.3
-62.5°	175.0	176.6	177.6	177.9	177.6	176.6	175.0	172.8	170.0	166.5	162.5
-65°	145.5	147.9	149.3	149.8	149.3	147.9	145.5	142.2	138.0	132.8	126.8
-67.5°	100.7	102.0	102.7	103.0	102.7	102.0	100.7	99.0	96.7	93.9	90.7
-70°	74.2	74.6	74.8	74.9	74.8	74.6	74.2	73.7	73.1	72.3	71.3
-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°	37.1	37.3	37.5	37.5	37.5	37.3	37.1	36.8	36.4	35.9	35.3
-80°	27.8	28.0	28.1	28.1	28.1	28.0	27.8	27.5	27.2	26.8	26.3
-82.5°	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.3	18.0	17.7	17.4
-85°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
-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: P699874 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3R-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	8.3	8.1	7.9	7.7	7.5	7.2	6.9	6.6
85°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
82.5°	17.0	16.6	16.1	15.5	14.9	14.3	13.6	12.9	12.1	11.3	10.5
80°	25.8	25.2	24.5	23.8	23.0	22.2	21.2	20.3	19.2	18.2	17.0
77.5°	34.6	33.9	33.0	32.1	31.1	30.0	28.9	27.7	26.4	25.0	23.6
75°	43.4	42.5	41.5	40.4	39.2	37.9	36.5	35.1	33.5	31.9	30.2
72.5°	57.4	55.3	52.9	50.3	47.5	45.7	44.0	42.3	40.5	38.6	36.7
70°	70.2	69.0	67.7	66.2	63.6	60.1	56.4	52.4	48.2	45.3	43.1
67.5°	87.0	82.8	78.2	74.3	72.5	70.5	68.5	66.2	62.2	57.2	52.1
65°	119.8	112.0	103.4	97.6	91.4	84.8	77.8	73.4	70.8	68.0	64.8
62.5°	157.8	152.6	144.9	134.4	123.1	110.8	99.9	91.6	82.9	74.5	71.4
60°	193.6	178.3	171.7	164.7	157.2	148.7	134.4	119.3	103.4	93.2	82.8
57.5°	272.3	245.8	227.1	206.8	184.8	171.7	162.3	152.4	136.8	118.7	101.1
55°	412.6	372.7	332.1	287.8	246.4	220.8	193.6	173.0	161.8	150.0	129.7
52.5°	608.9	551.2	487.6	418.4	361.8	306.4	250.3	219.3	186.8	168.6	155.4
50°	779.8	725.3	665.4	597.5	516.9	431.0	359.1	292.5	237.9	201.6	172.7
47.5°	862.6	839.0	813.1	754.2	678.7	595.3	497.6	397.3	322.8	249.1	209.0
45°	868.0	874.4	876.0	845.7	813.2	738.7	647.8	542.6	428.4	338.1	252.9
42.5°	1287.4	998.2	865.9	874.0	870.7	833.8	779.4	677.8	565.3	439.5	338.1
40°	2772.1	1702.9	1323.9	957.2	868.6	878.5	846.3	799.9	687.9	565.3	428.4
37.5°	5901.2	3951.9	2698.8	1561.9	1144.2	865.4	876.3	850.5	799.9	677.8	542.6
35°	11665.9	8070.6	5311.9	3376.3	1849.6	1238.8	864.3	876.3	846.3	779.4	647.8
32.5°	22929.0	16272.2	9550.5	6395.0	3719.4	2016.7	1238.8	865.4	878.5	833.8	738.7
30°	35485.1	27292.5	19091.7	10904.5	6759.3	3719.4	1849.6	1144.2	868.6	870.7	813.2
27.5°	44724.4	38899.5	29541.0	20041.3	10904.5	6395.0	3376.3	1561.9	957.2	874.0	845.7
25°	49844.7	46341.1	39677.4	29541.0	19091.7	9550.5	5311.9	2698.8	1323.9	865.9	876.0
22.5°	51594.2	50051.8	46341.1	38899.5	27292.5	16272.2	8070.6	3951.9	1702.9	998.2	874.4
20°	52690.6	51594.2	49844.7	44724.4	35485.1	22929.0	11665.9	5901.2	2772.1	1287.4	868.0
17.5°	53867.3	52546.8	51252.5	49232.2	41552.5	29809.6	17282.2	8038.9	3736.7	1547.7	862.3
15°	55109.7	53502.6	52122.5	50406.6	45998.2	36005.9	22277.7	10012.6	4846.7	2091.1	1043.9
12.5°	56879.8	54434.0	52828.0	51436.7	49183.2	40501.5	27075.7	13995.7	6354.6	2768.1	1225.8
10°	58744.1	55495.9	53515.9	51983.6	49977.1	43486.0	31211.0	17312.6	7607.5	3329.5	1376.4
7.5°	61387.7	56611.7	54096.2	52419.3	50609.0	45853.2	34481.9	19930.2	8594.5	3771.1	1494.6
5°	63351.7	57434.3	54521.6	52737.3	51068.5	47570.0	36848.8	21821.0	9306.3	4089.2	1579.7
2.5°	64563.7	57938.9	54781.5	52930.9	51347.7	48610.8	38281.6	22964.2	9736.2	4281.1	1631.0
0°	64973.6	58109.1	54868.9	52995.9	51441.3	48959.6	38761.3	23346.7	9880.0	4345.3	1648.2
-2.5°	64563.7	57938.9	54781.5	52930.9	51347.7	48610.8	38281.6	22964.2	9736.2	4281.1	1631.0
-5°	63351.7	57434.3	54521.6	52737.3	51068.5	47570.0	36848.8	21821.0	9306.3	4089.2	1579.7
-7.5°	61387.7	56611.7	54096.2	52419.3	50609.0	45853.2	34481.9	19930.2	8594.5	3771.1	1494.6
-10°	58744.1	55495.9	53515.9	51983.6	49977.1	43486.0	31211.0	17312.6	7607.5	3329.5	1376.4
-12.5°	56879.8	54434.0	52828.0	51436.7	49183.2	40501.5	27075.7	13995.7	6354.6	2768.1	1225.8
-15°	55109.7	53502.6	52122.5	50406.6	45998.2	36005.9	22277.7	10012.6	4846.7	2091.1	1043.9
-17.5°	53867.3	52546.8	51252.5	49232.2	41552.5	29809.6	17282.2	8038.9	3736.7	1547.7	862.3
-20°	52690.6	51594.2	49844.7	44724.4	35485.1	22929.0	11665.9	5901.2	2772.1	1287.4	868.0



REPORT NUMBER: P699874 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3R-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	51594.2	50051.8	46341.1	38899.5	27292.5	16272.2	8070.6	3951.9	1702.9	998.2	874.4
-25°	49844.7	46341.1	39677.4	29541.0	19091.7	9550.5	5311.9	2698.8	1323.9	865.9	876.0
-27.5°	44724.4	38899.5	29541.0	20041.3	10904.5	6395.0	3376.3	1561.9	957.2	874.0	845.7
-30°	35485.1	27292.5	19091.7	10904.5	6759.3	3719.4	1849.6	1144.2	868.6	870.7	813.2
-32.5°	22929.0	16272.2	9550.5	6395.0	3719.4	2016.7	1238.8	865.4	878.5	833.8	738.7
-35°	11665.9	8070.6	5311.9	3376.3	1849.6	1238.8	864.3	876.3	846.3	779.4	647.8
-37.5°	5901.2	3951.9	2698.8	1561.9	1144.2	865.4	876.3	850.5	799.9	677.8	542.6
-40°	2772.1	1702.9	1323.9	957.2	868.6	878.5	846.3	799.9	687.9	565.3	428.4
-42.5°	1287.4	998.2	865.9	874.0	870.7	833.8	779.4	677.8	565.3	439.5	338.1
-45°	868.0	874.4	876.0	845.7	813.2	738.7	647.8	542.6	428.4	338.1	252.9
-47.5°	862.6	839.0	813.1	754.2	678.7	595.3	497.6	397.3	322.8	249.1	209.0
-50°	779.8	725.3	665.4	597.5	516.9	431.0	359.1	292.5	237.9	201.6	172.7
-52.5°	608.9	551.2	487.6	418.4	361.8	306.4	250.3	219.3	186.8	168.6	155.4
-55°	412.6	372.7	332.1	287.8	246.4	220.8	193.6	173.0	161.8	150.0	129.7
-57.5°	272.3	245.8	227.1	206.8	184.8	171.7	162.3	152.4	136.8	118.7	101.1
-60°	193.6	178.3	171.7	164.7	157.2	148.7	134.4	119.3	103.4	93.2	82.8
-62.5°	157.8	152.6	144.9	134.4	123.1	110.8	99.9	91.6	82.9	74.5	71.4
-65°	119.8	112.0	103.4	97.6	91.4	84.8	77.8	73.4	70.8	68.0	64.8
-67.5°	87.0	82.8	78.2	74.3	72.5	70.5	68.5	66.2	62.2	57.2	52.1
-70°	70.2	69.0	67.7	66.2	63.6	60.1	56.4	52.4	48.2	45.3	43.1
-72.5°	57.4	55.3	52.9	50.3	47.5	45.7	44.0	42.3	40.5	38.6	36.7
-75°	43.4	42.5	41.5	40.4	39.2	37.9	36.5	35.1	33.5	31.9	30.2
-77.5°	34.6	33.9	33.0	32.1	31.1	30.0	28.9	27.7	26.4	25.0	23.6
-80°	25.8	25.2	24.5	23.8	23.0	22.2	21.2	20.3	19.2	18.2	17.0
-82.5°	17.0	16.6	16.1	15.5	14.9	14.3	13.6	12.9	12.1	11.3	10.5
-85°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
-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: P699874 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-40-80-3R-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°	9.4	9.4	9.4	9.4	9.4	9.4	8.7	7.9	7.2	6.4	5.6
82.5°	9.6	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	8.5
80°	15.9	14.6	13.4	12.1	10.7	9.4	9.4	9.4	9.4	9.4	9.4
77.5°	22.1	20.6	19.0	17.3	15.6	13.9	12.1	10.3	9.4	9.4	9.4
75°	28.4	26.5	24.6	22.6	20.6	18.5	16.3	14.2	11.9	9.7	9.4
72.5°	34.6	32.4	30.2	27.8	25.5	23.0	20.5	18.0	15.4	12.8	10.1
70°	40.7	38.2	35.7	33.0	30.3	27.5	24.7	21.7	18.8	15.8	12.8
67.5°	46.7	44.0	41.1	38.2	35.1	32.0	28.8	25.5	22.2	18.8	15.4
65°	58.8	52.5	46.5	43.2	39.8	36.4	32.8	29.2	25.5	21.7	18.0
62.5°	68.1	63.8	56.8	49.5	44.4	40.7	36.8	32.8	28.8	24.7	20.5
60°	73.9	70.2	66.4	59.3	51.2	44.9	40.7	36.4	32.0	27.5	23.0
57.5°	89.3	77.2	71.5	67.3	60.2	51.2	44.4	39.8	35.1	30.3	25.5
55°	108.6	93.3	79.8	72.0	67.3	59.3	49.5	43.2	38.2	33.0	27.8
52.5°	136.4	113.0	94.6	79.8	71.5	66.4	56.8	46.5	41.1	35.7	30.2
50°	158.1	138.7	113.0	93.3	77.2	70.2	63.8	52.5	44.0	38.2	32.4
47.5°	174.0	158.1	136.4	108.6	89.3	73.9	68.1	58.8	46.7	40.7	34.6
45°	209.0	172.7	155.4	129.7	101.1	82.8	71.4	64.8	52.1	43.1	36.7
42.5°	249.1	201.6	168.6	150.0	118.7	93.2	74.5	68.0	57.2	45.3	38.6
40°	322.8	237.9	186.8	161.8	136.8	103.4	82.9	70.8	62.2	48.2	40.5
37.5°	397.3	292.5	219.3	173.0	152.4	119.3	91.6	73.4	66.2	52.4	42.3
35°	497.6	359.1	250.3	193.6	162.3	134.4	99.9	77.8	68.5	56.4	44.0
32.5°	595.3	431.0	306.4	220.8	171.7	148.7	110.8	84.8	70.5	60.1	45.7
30°	678.7	516.9	361.8	246.4	184.8	157.2	123.1	91.4	72.5	63.6	47.5
27.5°	754.2	597.5	418.4	287.8	206.8	164.7	134.4	97.6	74.3	66.2	50.3
25°	813.1	665.4	487.6	332.1	227.1	171.7	144.9	103.4	78.2	67.7	52.9
22.5°	839.0	725.3	551.2	372.7	245.8	178.3	152.6	112.0	82.8	69.0	55.3
20°	862.6	779.8	608.9	412.6	272.3	193.6	157.8	119.8	87.0	70.2	57.4
17.5°	879.4	814.7	654.9	459.9	302.4	207.3	162.5	126.8	90.7	71.3	59.3
15°	874.8	831.8	694.3	501.3	328.7	219.3	166.5	132.8	93.9	72.3	61.0
12.5°	870.8	846.4	727.9	536.6	351.1	229.5	170.0	138.0	96.7	73.1	62.4
10°	867.5	858.5	755.6	565.8	369.6	237.9	172.8	142.2	99.0	73.7	63.5
7.5°	864.9	868.0	777.3	588.6	384.0	244.4	175.0	145.5	100.7	74.2	64.4
5°	863.1	874.8	792.9	605.0	394.4	249.1	176.6	147.9	102.0	74.6	65.1
2.5°	862.0	878.9	802.3	614.8	400.6	252.0	177.6	149.3	102.7	74.8	65.5
0°	861.6	880.3	805.4	618.1	402.7	252.9	177.9	149.8	103.0	74.9	65.6
-2.5°	862.0	878.9	802.3	614.8	400.6	252.0	177.6	149.3	102.7	74.8	65.5
-5°	863.1	874.8	792.9	605.0	394.4	249.1	176.6	147.9	102.0	74.6	65.1
-7.5°	864.9	868.0	777.3	588.6	384.0	244.4	175.0	145.5	100.7	74.2	64.4
-10°	867.5	858.5	755.6	565.8	369.6	237.9	172.8	142.2	99.0	73.7	63.5
-12.5°	870.8	846.4	727.9	536.6	351.1	229.5	170.0	138.0	96.7	73.1	62.4
-15°	874.8	831.8	694.3	501.3	328.7	219.3	166.5	132.8	93.9	72.3	61.0
-17.5°	879.4	814.7	654.9	459.9	302.4	207.3	162.5	126.8	90.7	71.3	59.3
-20°	862.6	779.8	608.9	412.6	272.3	193.6	157.8	119.8	87.0	70.2	57.4



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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°	839.0	725.3	551.2	372.7	245.8	178.3	152.6	112.0	82.8	69.0	55.3
-25°	813.1	665.4	487.6	332.1	227.1	171.7	144.9	103.4	78.2	67.7	52.9
-27.5°	754.2	597.5	418.4	287.8	206.8	164.7	134.4	97.6	74.3	66.2	50.3
-30°	678.7	516.9	361.8	246.4	184.8	157.2	123.1	91.4	72.5	63.6	47.5
-32.5°	595.3	431.0	306.4	220.8	171.7	148.7	110.8	84.8	70.5	60.1	45.7
-35°	497.6	359.1	250.3	193.6	162.3	134.4	99.9	77.8	68.5	56.4	44.0
-37.5°	397.3	292.5	219.3	173.0	152.4	119.3	91.6	73.4	66.2	52.4	42.3
-40°	322.8	237.9	186.8	161.8	136.8	103.4	82.9	70.8	62.2	48.2	40.5
-42.5°	249.1	201.6	168.6	150.0	118.7	93.2	74.5	68.0	57.2	45.3	38.6
-45°	209.0	172.7	155.4	129.7	101.1	82.8	71.4	64.8	52.1	43.1	36.7
-47.5°	174.0	158.1	136.4	108.6	89.3	73.9	68.1	58.8	46.7	40.7	34.6
-50°	158.1	138.7	113.0	93.3	77.2	70.2	63.8	52.5	44.0	38.2	32.4
-52.5°	136.4	113.0	94.6	79.8	71.5	66.4	56.8	46.5	41.1	35.7	30.2
-55°	108.6	93.3	79.8	72.0	67.3	59.3	49.5	43.2	38.2	33.0	27.8
-57.5°	89.3	77.2	71.5	67.3	60.2	51.2	44.4	39.8	35.1	30.3	25.5
-60°	73.9	70.2	66.4	59.3	51.2	44.9	40.7	36.4	32.0	27.5	23.0
-62.5°	68.1	63.8	56.8	49.5	44.4	40.7	36.8	32.8	28.8	24.7	20.5
-65°	58.8	52.5	46.5	43.2	39.8	36.4	32.8	29.2	25.5	21.7	18.0
-67.5°	46.7	44.0	41.1	38.2	35.1	32.0	28.8	25.5	22.2	18.8	15.4
-70°	40.7	38.2	35.7	33.0	30.3	27.5	24.7	21.7	18.8	15.8	12.8
-72.5°	34.6	32.4	30.2	27.8	25.5	23.0	20.5	18.0	15.4	12.8	10.1
-75°	28.4	26.5	24.6	22.6	20.6	18.5	16.3	14.2	11.9	9.7	9.4
-77.5°	22.1	20.6	19.0	17.3	15.6	13.9	12.1	10.3	9.4	9.4	9.4
-80°	15.9	14.6	13.4	12.1	10.7	9.4	9.4	9.4	9.4	9.4	9.4
-82.5°	9.6	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	8.5
-85°	9.4	9.4	9.4	9.4	9.4	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°	9.4	8.1	6.5	4.9	3.3	1.6	0.0
77.5°	9.4	9.4	8.1	6.1	4.1	2.0	0.0
75°	9.4	9.4	9.4	7.3	4.9	2.4	0.0
72.5°	9.4	9.4	9.4	8.5	5.6	2.8	0.0
70°	9.7	9.4	9.4	9.4	6.4	3.2	0.0
67.5°	11.9	9.4	9.4	9.4	7.2	3.6	0.0
65°	14.2	10.3	9.4	9.4	7.9	4.0	0.0
62.5°	16.3	12.1	9.4	9.4	8.7	4.3	0.0
60°	18.5	13.9	9.4	9.4	9.4	4.7	0.0
57.5°	20.6	15.6	10.7	9.4	9.4	5.0	0.0
55°	22.6	17.3	12.1	9.4	9.4	5.4	0.0
52.5°	24.6	19.0	13.4	9.4	9.4	5.7	0.0
50°	26.5	20.6	14.6	9.4	9.4	6.0	0.0
47.5°	28.4	22.1	15.9	9.6	9.4	6.3	0.0
45°	30.2	23.6	17.0	10.5	9.4	6.6	0.0
42.5°	31.9	25.0	18.2	11.3	9.4	6.9	0.0
40°	33.5	26.4	19.2	12.1	9.4	7.2	0.0
37.5°	35.1	27.7	20.3	12.9	9.4	7.5	0.0
35°	36.5	28.9	21.2	13.6	9.4	7.7	0.0
32.5°	37.9	30.0	22.2	14.3	9.4	7.9	0.0
30°	39.2	31.1	23.0	14.9	9.4	8.1	0.0
27.5°	40.4	32.1	23.8	15.5	9.4	8.3	0.0
25°	41.5	33.0	24.5	16.1	9.4	8.5	0.0
22.5°	42.5	33.9	25.2	16.6	9.4	8.7	0.0
20°	43.4	34.6	25.8	17.0	9.4	8.8	0.0
17.5°	44.2	35.3	26.3	17.4	9.4	9.0	0.0
15°	44.9	35.9	26.8	17.7	9.4	9.1	0.0
12.5°	45.4	36.4	27.2	18.0	9.4	9.2	0.0
10°	45.9	36.8	27.5	18.3	9.4	9.3	0.0
7.5°	46.3	37.1	27.8	18.5	9.4	9.3	0.0
5°	46.6	37.3	28.0	18.6	9.4	9.4	0.0
2.5°	46.7	37.5	28.1	18.7	9.4	9.4	0.0
0°	46.8	37.5	28.1	18.7	9.4	9.4	0.0
-2.5°	46.7	37.5	28.1	18.7	9.4	9.4	0.0
-5°	46.6	37.3	28.0	18.6	9.4	9.4	0.0
-7.5°	46.3	37.1	27.8	18.5	9.4	9.3	0.0
-10°	45.9	36.8	27.5	18.3	9.4	9.3	0.0
-12.5°	45.4	36.4	27.2	18.0	9.4	9.2	0.0
-15°	44.9	35.9	26.8	17.7	9.4	9.1	0.0
-17.5°	44.2	35.3	26.3	17.4	9.4	9.0	0.0
-20°	43.4	34.6	25.8	17.0	9.4	8.8	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	42.5	33.9	25.2	16.6	9.4	8.7	0.0
-25°	41.5	33.0	24.5	16.1	9.4	8.5	0.0
-27.5°	40.4	32.1	23.8	15.5	9.4	8.3	0.0
-30°	39.2	31.1	23.0	14.9	9.4	8.1	0.0
-32.5°	37.9	30.0	22.2	14.3	9.4	7.9	0.0
-35°	36.5	28.9	21.2	13.6	9.4	7.7	0.0
-37.5°	35.1	27.7	20.3	12.9	9.4	7.5	0.0
-40°	33.5	26.4	19.2	12.1	9.4	7.2	0.0
-42.5°	31.9	25.0	18.2	11.3	9.4	6.9	0.0
-45°	30.2	23.6	17.0	10.5	9.4	6.6	0.0
-47.5°	28.4	22.1	15.9	9.6	9.4	6.3	0.0
-50°	26.5	20.6	14.6	9.4	9.4	6.0	0.0
-52.5°	24.6	19.0	13.4	9.4	9.4	5.7	0.0
-55°	22.6	17.3	12.1	9.4	9.4	5.4	0.0
-57.5°	20.6	15.6	10.7	9.4	9.4	5.0	0.0
-60°	18.5	13.9	9.4	9.4	9.4	4.7	0.0
-62.5°	16.3	12.1	9.4	9.4	8.7	4.3	0.0
-65°	14.2	10.3	9.4	9.4	7.9	4.0	0.0
-67.5°	11.9	9.4	9.4	9.4	7.2	3.6	0.0
-70°	9.7	9.4	9.4	9.4	6.4	3.2	0.0
-72.5°	9.4	9.4	9.4	8.5	5.6	2.8	0.0
-75°	9.4	9.4	9.4	7.3	4.9	2.4	0.0
-77.5°	9.4	9.4	8.1	6.1	4.1	2.0	0.0
-80°	9.4	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)