

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: P699923 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200L-57-80-2R-S**

Issue Date: 8/10/2023

Test Information

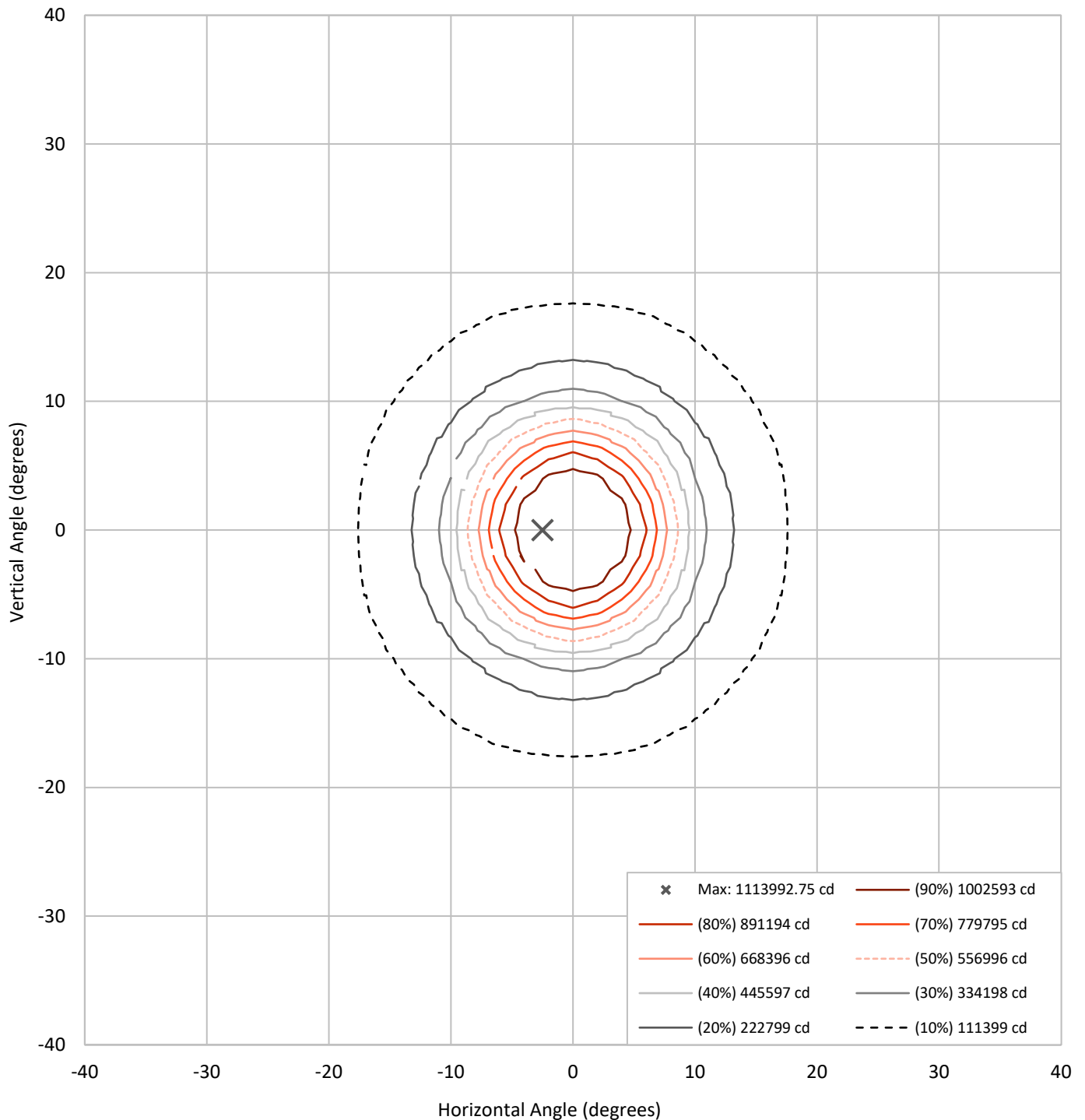
Test Method: LM-79-08
Report Number: P699923 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-15)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-57-80-2R-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 5700K, 80 CRI LEDS AND 2R BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	176504.9 lumens	Max Intensity:	1113992.8 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	145.4 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	17.3°H x 16.4°V	Field Angle (10%):	34.8°H x 34.6°V
Beam Lumens:	55084.8 lumens	Field Lumens:	112652.9 lumens
Beam Efficiency:	31.2%	Field Efficiency:	63.8%
Input Watts (W):	1214.1		
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





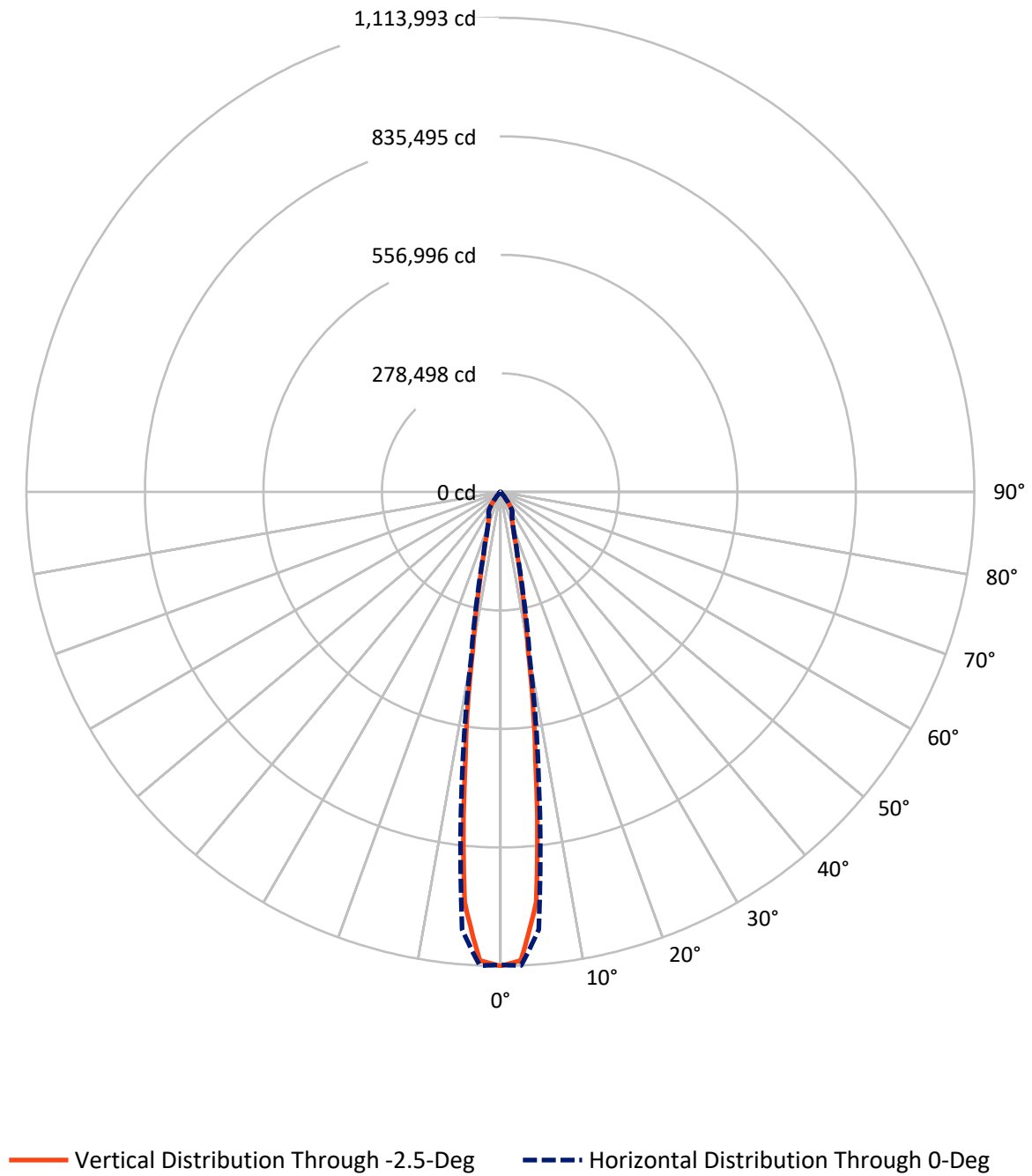
REPORT NUMBER: P699923 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table

90	0.3	1.3		2.8		4.2		4.8		4.2		2.8		1.3		0.3
80	0.3	1.3		2.8		4.2		4.8		4.2		2.8		1.3		0.3
70	0.5	0.5	0.9	1.5	2.2	3.7	5.4	6.3	6.3	5.4	3.7	2.2	1.5	0.9	0.5	0.5
60		0.7	1.4	3.5	7.9	11.3	13.8	15.2	15.2	13.8	11.3	7.9	3.5	1.4	0.7	
50	0.8	0.9	2.9	8.2	12.9	21.2	46.8	82.5	82.5	46.8	21.2	12.9	8.2	2.9	0.9	0.8
40		1.2	5.6	11.2	29.6	213.2	679.3	1024.9	1024.9	679.3	213.2	29.6	11.2	5.6	1.2	
30	1.0	1.8	7.2	16.7	195.0	1002.2	1653.4	1970.4	1970.4	1653.4	1002.2	195.0	16.7	7.2	1.8	1.0
20		2.5	8.3	35.2	584.6	1553.6	2504.7	4767.1	4767.1	2504.7	1553.6	584.6	35.2	8.3	2.5	
10	1.1	2.8	8.9	60.7	853.8	1797.0	4641.6	20230.2	20230.2	4641.6	1797.0	853.8	60.7	8.9	2.8	1.1
0		2.8	8.9	60.7	853.8	1797.0	4641.6	20230.2	20230.2	4641.6	1797.0	853.8	60.7	8.9	2.8	
-10	1.0	2.5	8.3	35.2	584.6	1553.6	2504.7	4767.1	4767.1	2504.7	1553.6	584.6	35.2	8.3	2.5	1.0
-20		1.8	7.2	16.7	195.0	1002.2	1653.4	1970.4	1970.4	1653.4	1002.2	195.0	16.7	7.2	1.8	
-30	0.8	1.2	5.6	11.2	29.6	213.2	679.3	1024.9	1024.9	679.3	213.2	29.6	11.2	5.6	1.2	0.8
-40		0.9	2.9	8.2	12.9	21.2	46.8	82.5	82.5	46.8	21.2	12.9	8.2	2.9	0.9	
-50	0.5	0.7	1.4	3.5	7.9	11.3	13.8	15.2	15.2	13.8	11.3	7.9	3.5	1.4	0.7	0.5
-60		0.5	0.9	1.5	2.2	3.7	5.4	6.3	6.3	5.4	3.7	2.2	1.5	0.9	0.5	
-70	0.3	1.3		2.8		4.2		4.8		4.2		2.8		1.3		0.3
-80		1.3		2.8		4.2		4.8		4.2		2.8		1.3		
-90	0.3	1.3		2.8		4.2		4.8		4.2		2.8		1.3		0.3

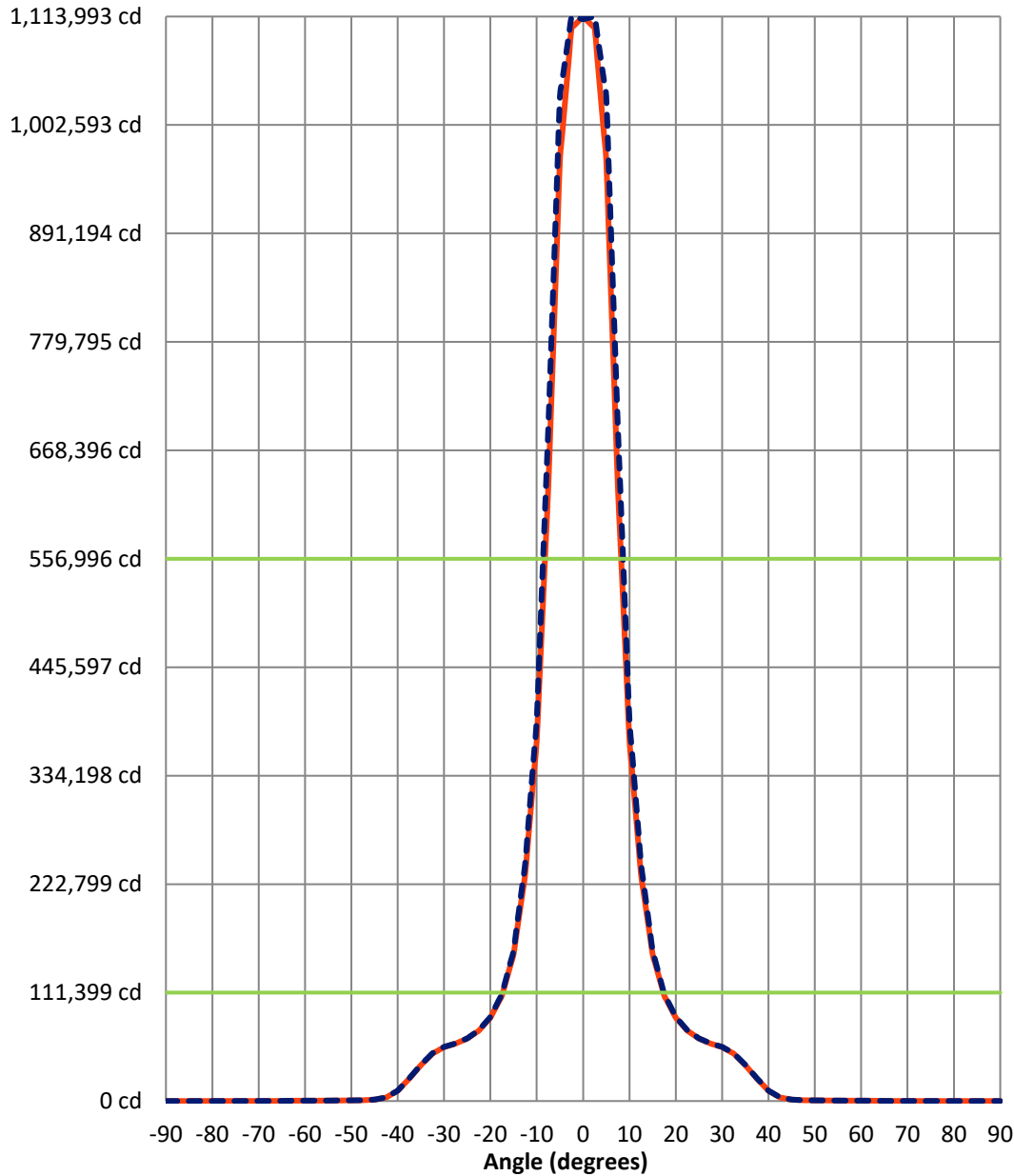
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 17.3°
 V Angle: 16.4°
 Lumens: 55084.8
 Efficiency: 31.2%

Field:
 H Angle: 34.8°
 V Angle: 34.6°
 Lumens: 112652.9
 Efficiency: 63.8%

Spill:
 Lumens: 63852
 Efficiency: 36.2%

— Vertical Distribution through -2.5-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	2.5	3.3	4.1	4.9	5.7	6.5	7.2	8.0
85°	0.0	1.6	3.3	4.9	6.6	8.2	9.8	11.4	12.9	14.4	16.0
82.5°	0.0	2.5	4.9	7.4	9.8	12.2	14.6	17.0	18.9	18.9	18.9
80°	0.0	3.3	6.6	9.8	13.1	16.3	18.9	18.9	18.9	18.9	18.9
77.5°	0.0	4.1	8.2	12.2	16.3	18.9	18.9	18.9	18.9	18.9	19.8
75°	0.0	4.9	9.8	14.6	18.9	18.9	18.9	18.9	19.2	21.5	23.8
72.5°	0.0	5.7	11.4	17.0	18.9	18.9	18.9	19.6	22.3	25.0	27.6
70°	0.0	6.5	12.9	18.9	18.9	18.9	19.2	22.3	25.4	28.5	31.4
67.5°	0.0	7.2	14.4	18.9	18.9	18.9	21.5	25.0	28.5	31.9	35.2
65°	0.0	8.0	16.0	18.9	18.9	19.8	23.8	27.6	31.4	35.2	38.9
62.5°	0.0	8.7	17.4	18.9	18.9	21.7	26.0	30.2	34.4	38.5	42.6
60°	0.0	9.4	18.9	18.9	18.9	23.5	28.2	32.7	37.2	41.7	46.2
57.5°	0.0	10.2	18.9	18.9	20.2	25.3	30.3	35.2	40.0	44.9	49.7
55°	0.0	10.8	18.9	18.9	21.6	27.0	32.3	37.5	42.8	48.0	53.1
52.5°	0.0	11.5	18.9	18.9	23.0	28.7	34.3	39.9	45.5	51.0	56.5
50°	0.0	12.1	18.9	18.9	24.3	30.3	36.2	42.2	48.1	53.9	59.7
47.5°	0.0	12.8	18.9	19.1	25.5	31.8	38.1	44.3	50.6	56.7	62.8
45°	0.0	13.4	18.9	20.0	26.7	33.3	39.9	46.5	53.0	59.4	65.8
42.5°	0.0	13.9	18.9	20.9	27.9	34.7	41.6	48.5	55.3	62.0	71.2
40°	0.0	14.5	18.9	21.7	28.9	36.1	43.3	50.4	57.5	64.5	76.7
37.5°	0.0	15.0	18.9	22.5	30.0	37.4	44.8	52.2	59.6	67.5	82.0
35°	0.0	15.5	18.9	23.2	30.9	38.6	46.3	54.0	61.6	72.0	86.1
32.5°	0.0	15.9	18.9	23.9	31.9	39.8	47.7	55.6	63.4	76.3	88.4
30°	0.0	16.4	18.9	24.6	32.7	40.9	49.0	57.2	65.2	80.2	90.7
27.5°	0.0	16.8	18.9	25.2	33.5	41.9	50.2	58.6	67.4	83.9	92.8
25°	0.0	17.1	18.9	25.7	34.2	42.8	51.4	59.9	70.4	86.2	95.1
22.5°	0.0	17.5	18.9	26.2	34.9	43.6	52.4	61.0	73.2	87.8	105.6
20°	0.0	17.8	18.9	26.7	35.5	44.4	53.3	62.1	75.6	89.2	115.0
17.5°	0.0	18.0	18.9	27.1	36.0	45.1	54.1	63.1	77.8	90.4	123.4
15°	0.0	18.3	18.9	27.4	36.5	45.7	54.8	63.9	79.7	91.5	130.8
12.5°	0.0	18.5	18.9	27.7	36.9	46.2	55.4	64.6	81.4	92.5	137.0
10°	0.0	18.6	18.9	28.0	37.2	46.6	55.9	65.2	82.7	93.2	142.2
7.5°	0.0	18.7	18.9	28.2	37.5	46.9	56.3	65.6	83.8	93.8	146.2
5°	0.0	18.8	18.9	28.3	37.7	47.1	56.6	65.9	84.5	94.3	149.1
2.5°	0.0	18.9	18.9	28.4	37.8	47.3	56.7	66.1	84.9	94.5	150.8
0°	0.0	18.9	18.9	28.4	37.8	47.3	56.8	66.2	85.1	94.6	151.4
-2.5°	0.0	18.9	18.9	28.4	37.8	47.3	56.7	66.1	84.9	94.5	150.8
-5°	0.0	18.8	18.9	28.3	37.7	47.1	56.6	65.9	84.5	94.3	149.1
-7.5°	0.0	18.7	18.9	28.2	37.5	46.9	56.3	65.6	83.8	93.8	146.2
-10°	0.0	18.6	18.9	28.0	37.2	46.6	55.9	65.2	82.7	93.2	142.2
-12.5°	0.0	18.5	18.9	27.7	36.9	46.2	55.4	64.6	81.4	92.5	137.0
-15°	0.0	18.3	18.9	27.4	36.5	45.7	54.8	63.9	79.7	91.5	130.8
-17.5°	0.0	18.0	18.9	27.1	36.0	45.1	54.1	63.1	77.8	90.4	123.4
-20°	0.0	17.8	18.9	26.7	35.5	44.4	53.3	62.1	75.6	89.2	115.0



REPORT NUMBER: P699923 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-2R-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	17.5	18.9	26.2	34.9	43.6	52.4	61.0	73.2	87.8	105.6
-25°	0.0	17.1	18.9	25.7	34.2	42.8	51.4	59.9	70.4	86.2	95.1
-27.5°	0.0	16.8	18.9	25.2	33.5	41.9	50.2	58.6	67.4	83.9	92.8
-30°	0.0	16.4	18.9	24.6	32.7	40.9	49.0	57.2	65.2	80.2	90.7
-32.5°	0.0	15.9	18.9	23.9	31.9	39.8	47.7	55.6	63.4	76.3	88.4
-35°	0.0	15.5	18.9	23.2	30.9	38.6	46.3	54.0	61.6	72.0	86.1
-37.5°	0.0	15.0	18.9	22.5	30.0	37.4	44.8	52.2	59.6	67.5	82.0
-40°	0.0	14.5	18.9	21.7	28.9	36.1	43.3	50.4	57.5	64.5	76.7
-42.5°	0.0	13.9	18.9	20.9	27.9	34.7	41.6	48.5	55.3	62.0	71.2
-45°	0.0	13.4	18.9	20.0	26.7	33.3	39.9	46.5	53.0	59.4	65.8
-47.5°	0.0	12.8	18.9	19.1	25.5	31.8	38.1	44.3	50.6	56.7	62.8
-50°	0.0	12.1	18.9	18.9	24.3	30.3	36.2	42.2	48.1	53.9	59.7
-52.5°	0.0	11.5	18.9	18.9	23.0	28.7	34.3	39.9	45.5	51.0	56.5
-55°	0.0	10.8	18.9	18.9	21.6	27.0	32.3	37.5	42.8	48.0	53.1
-57.5°	0.0	10.2	18.9	18.9	20.2	25.3	30.3	35.2	40.0	44.9	49.7
-60°	0.0	9.4	18.9	18.9	18.9	23.5	28.2	32.7	37.2	41.7	46.2
-62.5°	0.0	8.7	17.4	18.9	18.9	21.7	26.0	30.2	34.4	38.5	42.6
-65°	0.0	8.0	16.0	18.9	18.9	19.8	23.8	27.6	31.4	35.2	38.9
-67.5°	0.0	7.2	14.4	18.9	18.9	18.9	21.5	25.0	28.5	31.9	35.2
-70°	0.0	6.5	12.9	18.9	18.9	18.9	19.2	22.3	25.4	28.5	31.4
-72.5°	0.0	5.7	11.4	17.0	18.9	18.9	18.9	19.6	22.3	25.0	27.6
-75°	0.0	4.9	9.8	14.6	18.9	18.9	18.9	18.9	19.2	21.5	23.8
-77.5°	0.0	4.1	8.2	12.2	16.3	18.9	18.9	18.9	18.9	18.9	19.8
-80°	0.0	3.3	6.6	9.8	13.1	16.3	18.9	18.9	18.9	18.9	18.9
-82.5°	0.0	2.5	4.9	7.4	9.8	12.2	14.6	17.0	18.9	18.9	18.9
-85°	0.0	1.6	3.3	4.9	6.6	8.2	9.8	11.4	12.9	14.4	16.0
-87.5°	0.0	0.8	1.6	2.5	3.3	4.1	4.9	5.7	6.5	7.2	8.0
-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: P699923 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-2R-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°	8.7	9.4	10.2	10.8	11.5	12.1	12.8	13.4	13.9	14.5	15.0
85°	17.4	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
82.5°	18.9	18.9	18.9	18.9	18.9	18.9	19.1	20.0	20.9	21.7	22.5
80°	18.9	18.9	20.2	21.6	23.0	24.3	25.5	26.7	27.9	28.9	30.0
77.5°	21.7	23.5	25.3	27.0	28.7	30.3	31.8	33.3	34.7	36.1	37.4
75°	26.0	28.2	30.3	32.3	34.3	36.2	38.1	39.9	41.6	43.3	44.8
72.5°	30.2	32.7	35.2	37.5	39.9	42.2	44.3	46.5	48.5	50.4	52.2
70°	34.4	37.2	40.0	42.8	45.5	48.1	50.6	53.0	55.3	57.5	59.6
67.5°	38.5	41.7	44.9	48.0	51.0	53.9	56.7	59.4	62.0	64.5	67.5
65°	42.6	46.2	49.7	53.1	56.5	59.7	62.8	65.8	71.2	76.7	82.0
62.5°	46.6	50.5	54.4	58.1	61.8	65.3	71.3	78.0	84.4	87.8	90.8
60°	50.5	54.8	59.0	63.1	67.9	75.6	83.2	87.8	91.3	95.1	114.4
57.5°	54.4	59.0	63.5	69.6	78.2	85.9	90.0	94.0	113.6	135.6	171.5
55°	58.1	63.1	69.6	79.1	86.8	91.3	101.4	127.0	152.9	244.0	331.3
52.5°	61.8	67.9	78.2	86.8	91.8	106.8	135.2	194.6	296.5	372.3	384.6
50°	65.3	75.6	85.9	91.3	106.8	137.9	215.6	328.4	377.9	391.6	399.8
47.5°	71.3	83.2	90.0	101.4	135.2	215.6	339.0	380.7	395.9	401.7	406.5
45°	78.0	87.8	94.0	127.0	194.6	328.4	380.7	397.3	402.7	415.8	455.9
42.5°	84.4	91.3	113.6	152.9	296.5	377.9	395.9	402.7	419.7	463.9	518.6
40°	87.8	95.1	135.6	244.0	372.3	391.6	401.7	415.8	463.9	524.7	592.7
37.5°	90.8	114.4	171.5	331.3	384.6	399.8	406.5	455.9	518.6	592.7	658.7
35°	93.6	132.7	248.2	374.9	396.3	404.0	440.1	500.4	580.2	652.8	726.2
32.5°	104.1	150.1	320.7	385.2	400.7	416.7	474.4	555.6	635.5	712.1	798.3
30°	118.9	208.7	371.5	394.8	404.2	446.9	519.1	606.9	686.7	776.8	1071.1
27.5°	132.7	266.9	379.8	399.5	412.3	475.2	564.9	651.9	741.4	906.9	1437.7
25°	145.5	320.7	387.5	402.3	436.6	511.1	606.6	694.0	794.9	1228.8	2372.1
22.5°	173.3	369.0	394.6	404.9	458.9	547.4	642.6	738.8	942.9	1558.2	3396.1
20°	213.6	374.9	398.5	410.3	479.2	580.5	675.4	780.7	1196.8	2432.0	5690.7
17.5°	249.5	380.0	400.4	426.9	504.7	608.9	705.7	818.4	1425.3	3220.2	8401.9
15°	280.9	384.6	402.1	441.4	528.6	632.6	736.2	983.1	1875.4	4353.5	10861.7
12.5°	307.6	388.4	403.5	453.8	549.0	653.0	762.4	1142.7	2428.7	6265.8	14616.5
10°	329.6	391.6	404.7	464.0	565.8	669.8	784.0	1274.9	2887.5	7854.8	17743.3
7.5°	346.7	394.1	405.6	472.0	579.0	682.9	801.0	1378.7	3248.4	9106.4	20210.9
5°	359.0	395.9	406.3	477.8	588.4	692.4	813.2	1453.4	3508.3	10009.1	21993.4
2.5°	366.4	396.9	406.7	481.2	594.1	698.1	820.5	1498.4	3665.2	10554.4	23071.0
0°	368.9	397.3	406.8	482.4	596.0	700.0	823.0	1513.5	3717.6	10736.7	23431.6
-2.5°	366.4	396.9	406.7	481.2	594.1	698.1	820.5	1498.4	3665.2	10554.4	23071.0
-5°	359.0	395.9	406.3	477.8	588.4	692.4	813.2	1453.4	3508.3	10009.1	21993.4
-7.5°	346.7	394.1	405.6	472.0	579.0	682.9	801.0	1378.7	3248.4	9106.4	20210.9
-10°	329.6	391.6	404.7	464.0	565.8	669.8	784.0	1274.9	2887.5	7854.8	17743.3
-12.5°	307.6	388.4	403.5	453.8	549.0	653.0	762.4	1142.7	2428.7	6265.8	14616.5
-15°	280.9	384.6	402.1	441.4	528.6	632.6	736.2	983.1	1875.4	4353.5	10861.7
-17.5°	249.5	380.0	400.4	426.9	504.7	608.9	705.7	818.4	1425.3	3220.2	8401.9
-20°	213.6	374.9	398.5	410.3	479.2	580.5	675.4	780.7	1196.8	2432.0	5690.7



REPORT NUMBER: P699923 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-2R-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	173.3	369.0	394.6	404.9	458.9	547.4	642.6	738.8	942.9	1558.2	3396.1
-25°	145.5	320.7	387.5	402.3	436.6	511.1	606.6	694.0	794.9	1228.8	2372.1
-27.5°	132.7	266.9	379.8	399.5	412.3	475.2	564.9	651.9	741.4	906.9	1437.7
-30°	118.9	208.7	371.5	394.8	404.2	446.9	519.1	606.9	686.7	776.8	1071.1
-32.5°	104.1	150.1	320.7	385.2	400.7	416.7	474.4	555.6	635.5	712.1	798.3
-35°	93.6	132.7	248.2	374.9	396.3	404.0	440.1	500.4	580.2	652.8	726.2
-37.5°	90.8	114.4	171.5	331.3	384.6	399.8	406.5	455.9	518.6	592.7	658.7
-40°	87.8	95.1	135.6	244.0	372.3	391.6	401.7	415.8	463.9	524.7	592.7
-42.5°	84.4	91.3	113.6	152.9	296.5	377.9	395.9	402.7	419.7	463.9	518.6
-45°	78.0	87.8	94.0	127.0	194.6	328.4	380.7	397.3	402.7	415.8	455.9
-47.5°	71.3	83.2	90.0	101.4	135.2	215.6	339.0	380.7	395.9	401.7	406.5
-50°	65.3	75.6	85.9	91.3	106.8	137.9	215.6	328.4	377.9	391.6	399.8
-52.5°	61.8	67.9	78.2	86.8	91.8	106.8	135.2	194.6	296.5	372.3	384.6
-55°	58.1	63.1	69.6	79.1	86.8	91.3	101.4	127.0	152.9	244.0	331.3
-57.5°	54.4	59.0	63.5	69.6	78.2	85.9	90.0	94.0	113.6	135.6	171.5
-60°	50.5	54.8	59.0	63.1	67.9	75.6	83.2	87.8	91.3	95.1	114.4
-62.5°	46.6	50.5	54.4	58.1	61.8	65.3	71.3	78.0	84.4	87.8	90.8
-65°	42.6	46.2	49.7	53.1	56.5	59.7	62.8	65.8	71.2	76.7	82.0
-67.5°	38.5	41.7	44.9	48.0	51.0	53.9	56.7	59.4	62.0	64.5	67.5
-70°	34.4	37.2	40.0	42.8	45.5	48.1	50.6	53.0	55.3	57.5	59.6
-72.5°	30.2	32.7	35.2	37.5	39.9	42.2	44.3	46.5	48.5	50.4	52.2
-75°	26.0	28.2	30.3	32.3	34.3	36.2	38.1	39.9	41.6	43.3	44.8
-77.5°	21.7	23.5	25.3	27.0	28.7	30.3	31.8	33.3	34.7	36.1	37.4
-80°	18.9	18.9	20.2	21.6	23.0	24.3	25.5	26.7	27.9	28.9	30.0
-82.5°	18.9	18.9	18.9	18.9	18.9	18.9	19.1	20.0	20.9	21.7	22.5
-85°	17.4	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
-87.5°	8.7	9.4	10.2	10.8	11.5	12.1	12.8	13.4	13.9	14.5	15.0
-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: P699923 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-2R-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°	15.5	15.9	16.4	16.8	17.1	17.5	17.8	18.0	18.3	18.5	18.6
85°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
82.5°	23.2	23.9	24.6	25.2	25.7	26.2	26.7	27.1	27.4	27.7	28.0
80°	30.9	31.9	32.7	33.5	34.2	34.9	35.5	36.0	36.5	36.9	37.2
77.5°	38.6	39.8	40.9	41.9	42.8	43.6	44.4	45.1	45.7	46.2	46.6
75°	46.3	47.7	49.0	50.2	51.4	52.4	53.3	54.1	54.8	55.4	55.9
72.5°	54.0	55.6	57.2	58.6	59.9	61.0	62.1	63.1	63.9	64.6	65.2
70°	61.6	63.4	65.2	67.4	70.4	73.2	75.6	77.8	79.7	81.4	82.7
67.5°	72.0	76.3	80.2	83.9	86.2	87.8	89.2	90.4	91.5	92.5	93.2
65°	86.1	88.4	90.7	92.8	95.1	105.6	115.0	123.4	130.8	137.0	142.2
62.5°	93.6	104.1	118.9	132.7	145.5	173.3	213.6	249.5	280.9	307.6	329.6
60°	132.7	150.1	208.7	266.9	320.7	369.0	374.9	380.0	384.6	388.4	391.6
57.5°	248.2	320.7	371.5	379.8	387.5	394.6	398.5	400.4	402.1	403.5	404.7
55°	374.9	385.2	394.8	399.5	402.3	404.9	410.3	426.9	441.4	453.8	464.0
52.5°	396.3	400.7	404.2	412.3	436.6	458.9	479.2	504.7	528.6	549.0	565.8
50°	404.0	416.7	446.9	475.2	511.1	547.4	580.5	608.9	632.6	653.0	669.8
47.5°	440.1	474.4	519.1	564.9	606.6	642.6	675.4	705.7	736.2	762.4	784.0
45°	500.4	555.6	606.9	651.9	694.0	738.8	780.7	818.4	983.1	1142.7	1274.9
42.5°	580.2	635.5	686.7	741.4	794.9	942.9	1196.8	1425.3	1875.4	2428.7	2887.5
40°	652.8	712.1	776.8	906.9	1228.8	1558.2	2432.0	3220.2	4353.5	6265.8	7854.8
37.5°	726.2	798.3	1071.1	1437.7	2372.1	3396.1	5690.7	8401.9	10861.7	14616.5	17743.3
35°	805.5	1154.1	1678.1	2925.7	4943.4	8442.0	12420.3	17714.7	22423.9	26768.1	30468.1
32.5°	1154.1	1814.6	3206.1	6317.0	10318.9	16762.5	23037.8	29214.2	34758.4	39246.2	42715.0
30°	1678.1	3206.1	6779.0	11702.5	19420.5	26962.1	34292.3	40467.7	45634.9	49666.5	51760.7
27.5°	2925.7	6317.0	11702.5	20315.6	28973.9	37384.4	44154.3	49795.8	52893.6	55610.7	56870.1
25°	4943.4	10318.9	19420.5	28973.9	38288.4	46033.4	51411.5	55124.9	57189.6	58812.3	60642.9
22.5°	8442.0	16762.5	26962.1	37384.4	46033.4	51957.7	55974.4	58496.4	58165.4	60605.9	63193.3
20°	12420.3	23037.8	34292.3	44154.3	51411.5	55974.4	58496.4	61619.0	61619.0	65018.5	69555.8
17.5°	17714.7	29214.2	40467.7	49795.8	55124.9	58165.4	61619.0	65885.8	71394.8	78788.9	85997.0
15°	22423.9	34758.4	45634.9	52893.6	57189.6	60605.9	65018.5	71394.8	80439.8	91773.6	105646.1
12.5°	26768.1	39246.2	49666.5	55610.7	58812.3	63193.3	69555.8	78788.9	91773.6	109015.5	137409.0
10°	30468.1	42715.0	51760.7	56870.1	60642.9	66008.5	73975.7	85997.0	105646.1	137409.0	179349.2
7.5°	33394.7	45466.3	53427.5	57872.3	62255.0	68868.6	79258.1	95929.3	123664.4	167063.3	244789.5
5°	35512.5	47461.6	54639.6	58603.6	63436.6	70977.1	83182.6	103617.3	140333.6	203554.4	312075.3
2.5°	36794.5	48671.3	55375.8	59048.9	64158.5	72270.7	85604.3	108400.2	150829.0	232563.8	370407.7
0°	37223.7	49076.7	55622.8	59198.5	64401.3	72706.9	86423.4	110025.3	154419.4	243737.5	391923.0
-2.5°	36794.5	48671.3	55375.8	59048.9	64158.5	72270.7	85604.3	108400.2	150829.0	232563.8	370407.7
-5°	35512.5	47461.6	54639.6	58603.6	63436.6	70977.1	83182.6	103617.3	140333.6	203554.4	312075.3
-7.5°	33394.7	45466.3	53427.5	57872.3	62255.0	68868.6	79258.1	95929.3	123664.4	167063.3	244789.5
-10°	30468.1	42715.0	51760.7	56870.1	60642.9	66008.5	73975.7	85997.0	105646.1	137409.0	179349.2
-12.5°	26768.1	39246.2	49666.5	55610.7	58812.3	63193.3	69555.8	78788.9	91773.6	109015.5	137409.0
-15°	22423.9	34758.4	45634.9	52893.6	57189.6	60605.9	65018.5	71394.8	80439.8	91773.6	105646.1
-17.5°	17714.7	29214.2	40467.7	49795.8	55124.9	58165.4	61619.0	65885.8	71394.8	78788.9	85997.0
-20°	12420.3	23037.8	34292.3	44154.3	51411.5	55974.4	58496.4	61619.0	65018.5	69555.8	73975.7



REPORT NUMBER: P699923 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-2R-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8442.0	16762.5	26962.1	37384.4	46033.4	51957.7	55974.4	58165.4	60605.9	63193.3	66008.5
-25°	4943.4	10318.9	19420.5	28973.9	38288.4	46033.4	51411.5	55124.9	57189.6	58812.3	60642.9
-27.5°	2925.7	6317.0	11702.5	20315.6	28973.9	37384.4	44154.3	49795.8	52893.6	55610.7	56870.1
-30°	1678.1	3206.1	6779.0	11702.5	19420.5	26962.1	34292.3	40467.7	45634.9	49666.5	51760.7
-32.5°	1154.1	1814.6	3206.1	6317.0	10318.9	16762.5	23037.8	29214.2	34758.4	39246.2	42715.0
-35°	805.5	1154.1	1678.1	2925.7	4943.4	8442.0	12420.3	17714.7	22423.9	26768.1	30468.1
-37.5°	726.2	798.3	1071.1	1437.7	2372.1	3396.1	5690.7	8401.9	10861.7	14616.5	17743.3
-40°	652.8	712.1	776.8	906.9	1228.8	1558.2	2432.0	3220.2	4353.5	6265.8	7854.8
-42.5°	580.2	635.5	686.7	741.4	794.9	942.9	1196.8	1425.3	1875.4	2428.7	2887.5
-45°	500.4	555.6	606.9	651.9	694.0	738.8	780.7	818.4	983.1	1142.7	1274.9
-47.5°	440.1	474.4	519.1	564.9	606.6	642.6	675.4	705.7	736.2	762.4	784.0
-50°	404.0	416.7	446.9	475.2	511.1	547.4	580.5	608.9	632.6	653.0	669.8
-52.5°	396.3	400.7	404.2	412.3	436.6	458.9	479.2	504.7	528.6	549.0	565.8
-55°	374.9	385.2	394.8	399.5	402.3	404.9	410.3	426.9	441.4	453.8	464.0
-57.5°	248.2	320.7	371.5	379.8	387.5	394.6	398.5	400.4	402.1	403.5	404.7
-60°	132.7	150.1	208.7	266.9	320.7	369.0	374.9	380.0	384.6	388.4	391.6
-62.5°	93.6	104.1	118.9	132.7	145.5	173.3	213.6	249.5	280.9	307.6	329.6
-65°	86.1	88.4	90.7	92.8	95.1	105.6	115.0	123.4	130.8	137.0	142.2
-67.5°	72.0	76.3	80.2	83.9	86.2	87.8	89.2	90.4	91.5	92.5	93.2
-70°	61.6	63.4	65.2	67.4	70.4	73.2	75.6	77.8	79.7	81.4	82.7
-72.5°	54.0	55.6	57.2	58.6	59.9	61.0	62.1	63.1	63.9	64.6	65.2
-75°	46.3	47.7	49.0	50.2	51.4	52.4	53.3	54.1	54.8	55.4	55.9
-77.5°	38.6	39.8	40.9	41.9	42.8	43.6	44.4	45.1	45.7	46.2	46.6
-80°	30.9	31.9	32.7	33.5	34.2	34.9	35.5	36.0	36.5	36.9	37.2
-82.5°	23.2	23.9	24.6	25.2	25.7	26.2	26.7	27.1	27.4	27.7	28.0
-85°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
-87.5°	15.5	15.9	16.4	16.8	17.1	17.5	17.8	18.0	18.3	18.5	18.6
-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: P699923 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-2R-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°	18.7	18.8	18.9	18.9	18.9	18.8	18.7	18.6	18.5	18.3	18.0
85°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
82.5°	28.2	28.3	28.4	28.4	28.4	28.3	28.2	28.0	27.7	27.4	27.1
80°	37.5	37.7	37.8	37.8	37.8	37.7	37.5	37.2	36.9	36.5	36.0
77.5°	46.9	47.1	47.3	47.3	47.3	47.1	46.9	46.6	46.2	45.7	45.1
75°	56.3	56.6	56.7	56.8	56.7	56.6	56.3	55.9	55.4	54.8	54.1
72.5°	65.6	65.9	66.1	66.2	66.1	65.9	65.6	65.2	64.6	63.9	63.1
70°	83.8	84.5	84.9	85.1	84.9	84.5	83.8	82.7	81.4	79.7	77.8
67.5°	93.8	94.3	94.5	94.6	94.5	94.3	93.8	93.2	92.5	91.5	90.4
65°	146.2	149.1	150.8	151.4	150.8	149.1	146.2	142.2	137.0	130.8	123.4
62.5°	346.7	359.0	366.4	368.9	366.4	359.0	346.7	329.6	307.6	280.9	249.5
60°	394.1	395.9	396.9	397.3	396.9	395.9	394.1	391.6	388.4	384.6	380.0
57.5°	405.6	406.3	406.7	406.8	406.7	406.3	405.6	404.7	403.5	402.1	400.4
55°	472.0	477.8	481.2	482.4	481.2	477.8	472.0	464.0	453.8	441.4	426.9
52.5°	579.0	588.4	594.1	596.0	594.1	588.4	579.0	565.8	549.0	528.6	504.7
50°	682.9	692.4	698.1	700.0	698.1	692.4	682.9	669.8	653.0	632.6	608.9
47.5°	801.0	813.2	820.5	823.0	820.5	813.2	801.0	784.0	762.4	736.2	705.7
45°	1378.7	1453.4	1498.4	1513.5	1498.4	1453.4	1378.7	1274.9	1142.7	983.1	818.4
42.5°	3248.4	3508.3	3665.2	3717.6	3665.2	3508.3	3248.4	2887.5	2428.7	1875.4	1425.3
40°	9106.4	10009.1	10554.4	10736.7	10554.4	10009.1	9106.4	7854.8	6265.8	4353.5	3220.2
37.5°	20210.9	21993.4	23071.0	23431.6	23071.0	21993.4	20210.9	17743.3	14616.5	10861.7	8401.9
35°	33394.7	35512.5	36794.5	37223.7	36794.5	35512.5	33394.7	30468.1	26768.1	22423.9	17714.7
32.5°	45466.3	47461.6	48671.3	49076.7	48671.3	47461.6	45466.3	42715.0	39246.2	34758.4	29214.2
30°	53427.5	54639.6	55375.8	55622.8	55375.8	54639.6	53427.5	51760.7	49666.5	45634.9	40467.7
27.5°	57872.3	58603.6	59048.9	59198.5	59048.9	58603.6	57872.3	56870.1	55610.7	52893.6	49795.8
25°	62255.0	63436.6	64158.5	64401.3	64158.5	63436.6	62255.0	60642.9	58812.3	57189.6	55124.9
22.5°	68868.6	70977.1	72270.7	72706.9	72270.7	70977.1	68868.6	66008.5	63193.3	60605.9	58165.4
20°	79258.1	83182.6	85604.3	86423.4	85604.3	83182.6	79258.1	73975.7	69555.8	65018.5	61619.0
17.5°	95929.3	103617.3	108400.2	110025.3	108400.2	103617.3	95929.3	85997.0	78788.9	71394.8	65885.8
15°	123664.4	140333.6	150829.0	154419.4	150829.0	140333.6	123664.4	105646.1	91773.6	80439.8	71394.8
12.5°	167063.3	203554.4	232563.8	243737.5	232563.8	203554.4	167063.3	137409.0	109015.5	91773.6	78788.9
10°	244789.5	312075.3	370407.7	391923.0	370407.7	312075.3	244789.5	179349.2	137409.0	105646.1	85997.0
7.5°	350159.7	487584.4	631480.0	693094.8	631480.0	487584.4	350159.7	244789.5	167063.3	123664.4	95929.3
5°	487584.4	759290.2	966240.9	#####	966240.9	759290.2	487584.4	312075.3	203554.4	140333.6	103617.3
2.5°	631480.0	966240.9	#####	#####	#####	966240.9	631480.0	370407.7	232563.8	150829.0	108400.2
0°	693094.8	#####	#####	#####	#####	693094.8	391923.0	243737.5	154419.4	110025.3	
-2.5°	631480.0	966240.9	#####	#####	#####	966240.9	631480.0	370407.7	232563.8	150829.0	108400.2
-5°	487584.4	759290.2	966240.9	#####	966240.9	759290.2	487584.4	312075.3	203554.4	140333.6	103617.3
-7.5°	350159.7	487584.4	631480.0	693094.8	631480.0	487584.4	350159.7	244789.5	167063.3	123664.4	95929.3
-10°	244789.5	312075.3	370407.7	391923.0	370407.7	312075.3	244789.5	179349.2	137409.0	105646.1	85997.0
-12.5°	167063.3	203554.4	232563.8	243737.5	232563.8	203554.4	167063.3	137409.0	109015.5	91773.6	78788.9
-15°	123664.4	140333.6	150829.0	154419.4	150829.0	140333.6	123664.4	105646.1	91773.6	80439.8	71394.8
-17.5°	95929.3	103617.3	108400.2	110025.3	108400.2	103617.3	95929.3	85997.0	78788.9	71394.8	65885.8
-20°	79258.1	83182.6	85604.3	86423.4	85604.3	83182.6	79258.1	73975.7	69555.8	65018.5	61619.0



REPORT NUMBER: P699923 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-2R-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	68868.6	70977.1	72270.7	72706.9	72270.7	70977.1	68868.6	66008.5	63193.3	60605.9	58165.4
-25°	62255.0	63436.6	64158.5	64401.3	64158.5	63436.6	62255.0	60642.9	58812.3	57189.6	55124.9
-27.5°	57872.3	58603.6	59048.9	59198.5	59048.9	58603.6	57872.3	56870.1	55610.7	52893.6	49795.8
-30°	53427.5	54639.6	55375.8	55622.8	55375.8	54639.6	53427.5	51760.7	49666.5	45634.9	40467.7
-32.5°	45466.3	47461.6	48671.3	49076.7	48671.3	47461.6	45466.3	42715.0	39246.2	34758.4	29214.2
-35°	33394.7	35512.5	36794.5	37223.7	36794.5	35512.5	33394.7	30468.1	26768.1	22423.9	17714.7
-37.5°	20210.9	21993.4	23071.0	23431.6	23071.0	21993.4	20210.9	17743.3	14616.5	10861.7	8401.9
-40°	9106.4	10009.1	10554.4	10736.7	10554.4	10009.1	9106.4	7854.8	6265.8	4353.5	3220.2
-42.5°	3248.4	3508.3	3665.2	3717.6	3665.2	3508.3	3248.4	2887.5	2428.7	1875.4	1425.3
-45°	1378.7	1453.4	1498.4	1513.5	1498.4	1453.4	1378.7	1274.9	1142.7	983.1	818.4
-47.5°	801.0	813.2	820.5	823.0	820.5	813.2	801.0	784.0	762.4	736.2	705.7
-50°	682.9	692.4	698.1	700.0	698.1	692.4	682.9	669.8	653.0	632.6	608.9
-52.5°	579.0	588.4	594.1	596.0	594.1	588.4	579.0	565.8	549.0	528.6	504.7
-55°	472.0	477.8	481.2	482.4	481.2	477.8	472.0	464.0	453.8	441.4	426.9
-57.5°	405.6	406.3	406.7	406.8	406.7	406.3	405.6	404.7	403.5	402.1	400.4
-60°	394.1	395.9	396.9	397.3	396.9	395.9	394.1	391.6	388.4	384.6	380.0
-62.5°	346.7	359.0	366.4	368.9	366.4	359.0	346.7	329.6	307.6	280.9	249.5
-65°	146.2	149.1	150.8	151.4	150.8	149.1	146.2	142.2	137.0	130.8	123.4
-67.5°	93.8	94.3	94.5	94.6	94.5	94.3	93.8	93.2	92.5	91.5	90.4
-70°	83.8	84.5	84.9	85.1	84.9	84.5	83.8	82.7	81.4	79.7	77.8
-72.5°	65.6	65.9	66.1	66.2	66.1	65.9	65.6	65.2	64.6	63.9	63.1
-75°	56.3	56.6	56.7	56.8	56.7	56.6	56.3	55.9	55.4	54.8	54.1
-77.5°	46.9	47.1	47.3	47.3	47.3	47.1	46.9	46.6	46.2	45.7	45.1
-80°	37.5	37.7	37.8	37.8	37.8	37.7	37.5	37.2	36.9	36.5	36.0
-82.5°	28.2	28.3	28.4	28.4	28.4	28.3	28.2	28.0	27.7	27.4	27.1
-85°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
-87.5°	18.7	18.8	18.9	18.9	18.9	18.8	18.7	18.6	18.5	18.3	18.0
-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: P699923 (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°	17.8	17.5	17.1	16.8	16.4	15.9	15.5	15.0	14.5	13.9	13.4
85°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
82.5°	26.7	26.2	25.7	25.2	24.6	23.9	23.2	22.5	21.7	20.9	20.0
80°	35.5	34.9	34.2	33.5	32.7	31.9	30.9	30.0	28.9	27.9	26.7
77.5°	44.4	43.6	42.8	41.9	40.9	39.8	38.6	37.4	36.1	34.7	33.3
75°	53.3	52.4	51.4	50.2	49.0	47.7	46.3	44.8	43.3	41.6	39.9
72.5°	62.1	61.0	59.9	58.6	57.2	55.6	54.0	52.2	50.4	48.5	46.5
70°	75.6	73.2	70.4	67.4	65.2	63.4	61.6	59.6	57.5	55.3	53.0
67.5°	89.2	87.8	86.2	83.9	80.2	76.3	72.0	67.5	64.5	62.0	59.4
65°	115.0	105.6	95.1	92.8	90.7	88.4	86.1	82.0	76.7	71.2	65.8
62.5°	213.6	173.3	145.5	132.7	118.9	104.1	93.6	90.8	87.8	84.4	78.0
60°	374.9	369.0	320.7	266.9	208.7	150.1	132.7	114.4	95.1	91.3	87.8
57.5°	398.5	394.6	387.5	379.8	371.5	320.7	248.2	171.5	135.6	113.6	94.0
55°	410.3	404.9	402.3	399.5	394.8	385.2	374.9	331.3	244.0	152.9	127.0
52.5°	479.2	458.9	436.6	412.3	404.2	400.7	396.3	384.6	372.3	296.5	194.6
50°	580.5	547.4	511.1	475.2	446.9	416.7	404.0	399.8	391.6	377.9	328.4
47.5°	675.4	642.6	606.6	564.9	519.1	474.4	440.1	406.5	401.7	395.9	380.7
45°	780.7	738.8	694.0	651.9	606.9	555.6	500.4	455.9	415.8	402.7	397.3
42.5°	1196.8	942.9	794.9	741.4	686.7	635.5	580.2	518.6	463.9	419.7	402.7
40°	2432.0	1558.2	1228.8	906.9	776.8	712.1	652.8	592.7	524.7	463.9	415.8
37.5°	5690.7	3396.1	2372.1	1437.7	1071.1	798.3	726.2	658.7	592.7	518.6	455.9
35°	12420.3	8442.0	4943.4	2925.7	1678.1	1154.1	805.5	726.2	652.8	580.2	500.4
32.5°	23037.8	16762.5	10318.9	6317.0	3206.1	1814.6	1154.1	798.3	712.1	635.5	555.6
30°	34292.3	26962.1	19420.5	11702.5	6779.0	3206.1	1678.1	1071.1	776.8	686.7	606.9
27.5°	44154.3	37384.4	28973.9	20315.6	11702.5	6317.0	2925.7	1437.7	906.9	741.4	651.9
25°	51411.5	46033.4	38288.4	28973.9	19420.5	10318.9	4943.4	2372.1	1228.8	794.9	694.0
22.5°	55974.4	51957.7	46033.4	37384.4	26962.1	16762.5	8442.0	3396.1	1558.2	942.9	738.8
20°	58496.4	55974.4	51411.5	44154.3	34292.3	23037.8	12420.3	5690.7	2432.0	1196.8	780.7
17.5°	61619.0	58165.4	55124.9	49795.8	40467.7	29214.2	17714.7	8401.9	3220.2	1425.3	818.4
15°	65018.5	60605.9	57189.6	52893.6	45634.9	34758.4	22423.9	10861.7	4353.5	1875.4	983.1
12.5°	69555.8	63193.3	58812.3	55610.7	49666.5	39246.2	26768.1	14616.5	6265.8	2428.7	1142.7
10°	73975.7	66008.5	60642.9	56870.1	51760.7	42715.0	30468.1	17743.3	7854.8	2887.5	1274.9
7.5°	79258.1	68868.6	62255.0	57872.3	53427.5	45466.3	33394.7	20210.9	9106.4	3248.4	1378.7
5°	83182.6	70977.1	63436.6	58603.6	54639.6	47461.6	35512.5	21993.4	10009.1	3508.3	1453.4
2.5°	85604.3	72270.7	64158.5	59048.9	55375.8	48671.3	36794.5	23071.0	10554.4	3665.2	1498.4
0°	86423.4	72706.9	64401.3	59198.5	55622.8	49076.7	37223.7	23431.6	10736.7	3717.6	1513.5
-2.5°	85604.3	72270.7	64158.5	59048.9	55375.8	48671.3	36794.5	23071.0	10554.4	3665.2	1498.4
-5°	83182.6	70977.1	63436.6	58603.6	54639.6	47461.6	35512.5	21993.4	10009.1	3508.3	1453.4
-7.5°	79258.1	68868.6	62255.0	57872.3	53427.5	45466.3	33394.7	20210.9	9106.4	3248.4	1378.7
-10°	73975.7	66008.5	60642.9	56870.1	51760.7	42715.0	30468.1	17743.3	7854.8	2887.5	1274.9
-12.5°	69555.8	63193.3	58812.3	55610.7	49666.5	39246.2	26768.1	14616.5	6265.8	2428.7	1142.7
-15°	65018.5	60605.9	57189.6	52893.6	45634.9	34758.4	22423.9	10861.7	4353.5	1875.4	983.1
-17.5°	61619.0	58165.4	55124.9	49795.8	40467.7	29214.2	17714.7	8401.9	3220.2	1425.3	818.4
-20°	58496.4	55974.4	51411.5	44154.3	34292.3	23037.8	12420.3	5690.7	2432.0	1196.8	780.7



REPORT NUMBER: P699923 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-2R-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	55974.4	51957.7	46033.4	37384.4	26962.1	16762.5	8442.0	3396.1	1558.2	942.9	738.8
-25°	51411.5	46033.4	38288.4	28973.9	19420.5	10318.9	4943.4	2372.1	1228.8	794.9	694.0
-27.5°	44154.3	37384.4	28973.9	20315.6	11702.5	6317.0	2925.7	1437.7	906.9	741.4	651.9
-30°	34292.3	26962.1	19420.5	11702.5	6779.0	3206.1	1678.1	1071.1	776.8	686.7	606.9
-32.5°	23037.8	16762.5	10318.9	6317.0	3206.1	1814.6	1154.1	798.3	712.1	635.5	555.6
-35°	12420.3	8442.0	4943.4	2925.7	1678.1	1154.1	805.5	726.2	652.8	580.2	500.4
-37.5°	5690.7	3396.1	2372.1	1437.7	1071.1	798.3	726.2	658.7	592.7	518.6	455.9
-40°	2432.0	1558.2	1228.8	906.9	776.8	712.1	652.8	592.7	524.7	463.9	415.8
-42.5°	1196.8	942.9	794.9	741.4	686.7	635.5	580.2	518.6	463.9	419.7	402.7
-45°	780.7	738.8	694.0	651.9	606.9	555.6	500.4	455.9	415.8	402.7	397.3
-47.5°	675.4	642.6	606.6	564.9	519.1	474.4	440.1	406.5	401.7	395.9	380.7
-50°	580.5	547.4	511.1	475.2	446.9	416.7	404.0	399.8	391.6	377.9	328.4
-52.5°	479.2	458.9	436.6	412.3	404.2	400.7	396.3	384.6	372.3	296.5	194.6
-55°	410.3	404.9	402.3	399.5	394.8	385.2	374.9	331.3	244.0	152.9	127.0
-57.5°	398.5	394.6	387.5	379.8	371.5	320.7	248.2	171.5	135.6	113.6	94.0
-60°	374.9	369.0	320.7	266.9	208.7	150.1	132.7	114.4	95.1	91.3	87.8
-62.5°	213.6	173.3	145.5	132.7	118.9	104.1	93.6	90.8	87.8	84.4	78.0
-65°	115.0	105.6	95.1	92.8	90.7	88.4	86.1	82.0	76.7	71.2	65.8
-67.5°	89.2	87.8	86.2	83.9	80.2	76.3	72.0	67.5	64.5	62.0	59.4
-70°	75.6	73.2	70.4	67.4	65.2	63.4	61.6	59.6	57.5	55.3	53.0
-72.5°	62.1	61.0	59.9	58.6	57.2	55.6	54.0	52.2	50.4	48.5	46.5
-75°	53.3	52.4	51.4	50.2	49.0	47.7	46.3	44.8	43.3	41.6	39.9
-77.5°	44.4	43.6	42.8	41.9	40.9	39.8	38.6	37.4	36.1	34.7	33.3
-80°	35.5	34.9	34.2	33.5	32.7	31.9	30.9	30.0	28.9	27.9	26.7
-82.5°	26.7	26.2	25.7	25.2	24.6	23.9	23.2	22.5	21.7	20.9	20.0
-85°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
-87.5°	17.8	17.5	17.1	16.8	16.4	15.9	15.5	15.0	14.5	13.9	13.4
-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: P699923 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-80-2R-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°	12.8	12.1	11.5	10.8	10.2	9.4	8.7	8.0	7.2	6.5	5.7
85°	18.9	18.9	18.9	18.9	18.9	18.9	17.4	16.0	14.4	12.9	11.4
82.5°	19.1	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	17.0
80°	25.5	24.3	23.0	21.6	20.2	18.9	18.9	18.9	18.9	18.9	18.9
77.5°	31.8	30.3	28.7	27.0	25.3	23.5	21.7	19.8	18.9	18.9	18.9
75°	38.1	36.2	34.3	32.3	30.3	28.2	26.0	23.8	21.5	19.2	18.9
72.5°	44.3	42.2	39.9	37.5	35.2	32.7	30.2	27.6	25.0	22.3	19.6
70°	50.6	48.1	45.5	42.8	40.0	37.2	34.4	31.4	28.5	25.4	22.3
67.5°	56.7	53.9	51.0	48.0	44.9	41.7	38.5	35.2	31.9	28.5	25.0
65°	62.8	59.7	56.5	53.1	49.7	46.2	42.6	38.9	35.2	31.4	27.6
62.5°	71.3	65.3	61.8	58.1	54.4	50.5	46.6	42.6	38.5	34.4	30.2
60°	83.2	75.6	67.9	63.1	59.0	54.8	50.5	46.2	41.7	37.2	32.7
57.5°	90.0	85.9	78.2	69.6	63.5	59.0	54.4	49.7	44.9	40.0	35.2
55°	101.4	91.3	86.8	79.1	69.6	63.1	58.1	53.1	48.0	42.8	37.5
52.5°	135.2	106.8	91.8	86.8	78.2	67.9	61.8	56.5	51.0	45.5	39.9
50°	215.6	137.9	106.8	91.3	85.9	75.6	65.3	59.7	53.9	48.1	42.2
47.5°	339.0	215.6	135.2	101.4	90.0	83.2	71.3	62.8	56.7	50.6	44.3
45°	380.7	328.4	194.6	127.0	94.0	87.8	78.0	65.8	59.4	53.0	46.5
42.5°	395.9	377.9	296.5	152.9	113.6	91.3	84.4	71.2	62.0	55.3	48.5
40°	401.7	391.6	372.3	244.0	135.6	95.1	87.8	76.7	64.5	57.5	50.4
37.5°	406.5	399.8	384.6	331.3	171.5	114.4	90.8	82.0	67.5	59.6	52.2
35°	440.1	404.0	396.3	374.9	248.2	132.7	93.6	86.1	72.0	61.6	54.0
32.5°	474.4	416.7	400.7	385.2	320.7	150.1	104.1	88.4	76.3	63.4	55.6
30°	519.1	446.9	404.2	394.8	371.5	208.7	118.9	90.7	80.2	65.2	57.2
27.5°	564.9	475.2	412.3	399.5	379.8	266.9	132.7	92.8	83.9	67.4	58.6
25°	606.6	511.1	436.6	402.3	387.5	320.7	145.5	95.1	86.2	70.4	59.9
22.5°	642.6	547.4	458.9	404.9	394.6	369.0	173.3	105.6	87.8	73.2	61.0
20°	675.4	580.5	479.2	410.3	398.5	374.9	213.6	115.0	89.2	75.6	62.1
17.5°	705.7	608.9	504.7	426.9	400.4	380.0	249.5	123.4	90.4	77.8	63.1
15°	736.2	632.6	528.6	441.4	402.1	384.6	280.9	130.8	91.5	79.7	63.9
12.5°	762.4	653.0	549.0	453.8	403.5	388.4	307.6	137.0	92.5	81.4	64.6
10°	784.0	669.8	565.8	464.0	404.7	391.6	329.6	142.2	93.2	82.7	65.2
7.5°	801.0	682.9	579.0	472.0	405.6	394.1	346.7	146.2	93.8	83.8	65.6
5°	813.2	692.4	588.4	477.8	406.3	395.9	359.0	149.1	94.3	84.5	65.9
2.5°	820.5	698.1	594.1	481.2	406.7	396.9	366.4	150.8	94.5	84.9	66.1
0°	823.0	700.0	596.0	482.4	406.8	397.3	368.9	151.4	94.6	85.1	66.2
-2.5°	820.5	698.1	594.1	481.2	406.7	396.9	366.4	150.8	94.5	84.9	66.1
-5°	813.2	692.4	588.4	477.8	406.3	395.9	359.0	149.1	94.3	84.5	65.9
-7.5°	801.0	682.9	579.0	472.0	405.6	394.1	346.7	146.2	93.8	83.8	65.6
-10°	784.0	669.8	565.8	464.0	404.7	391.6	329.6	142.2	93.2	82.7	65.2
-12.5°	762.4	653.0	549.0	453.8	403.5	388.4	307.6	137.0	92.5	81.4	64.6
-15°	736.2	632.6	528.6	441.4	402.1	384.6	280.9	130.8	91.5	79.7	63.9
-17.5°	705.7	608.9	504.7	426.9	400.4	380.0	249.5	123.4	90.4	77.8	63.1
-20°	675.4	580.5	479.2	410.3	398.5	374.9	213.6	115.0	89.2	75.6	62.1



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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°	642.6	547.4	458.9	404.9	394.6	369.0	173.3	105.6	87.8	73.2	61.0
-25°	606.6	511.1	436.6	402.3	387.5	320.7	145.5	95.1	86.2	70.4	59.9
-27.5°	564.9	475.2	412.3	399.5	379.8	266.9	132.7	92.8	83.9	67.4	58.6
-30°	519.1	446.9	404.2	394.8	371.5	208.7	118.9	90.7	80.2	65.2	57.2
-32.5°	474.4	416.7	400.7	385.2	320.7	150.1	104.1	88.4	76.3	63.4	55.6
-35°	440.1	404.0	396.3	374.9	248.2	132.7	93.6	86.1	72.0	61.6	54.0
-37.5°	406.5	399.8	384.6	331.3	171.5	114.4	90.8	82.0	67.5	59.6	52.2
-40°	401.7	391.6	372.3	244.0	135.6	95.1	87.8	76.7	64.5	57.5	50.4
-42.5°	395.9	377.9	296.5	152.9	113.6	91.3	84.4	71.2	62.0	55.3	48.5
-45°	380.7	328.4	194.6	127.0	94.0	87.8	78.0	65.8	59.4	53.0	46.5
-47.5°	339.0	215.6	135.2	101.4	90.0	83.2	71.3	62.8	56.7	50.6	44.3
-50°	215.6	137.9	106.8	91.3	85.9	75.6	65.3	59.7	53.9	48.1	42.2
-52.5°	135.2	106.8	91.8	86.8	78.2	67.9	61.8	56.5	51.0	45.5	39.9
-55°	101.4	91.3	86.8	79.1	69.6	63.1	58.1	53.1	48.0	42.8	37.5
-57.5°	90.0	85.9	78.2	69.6	63.5	59.0	54.4	49.7	44.9	40.0	35.2
-60°	83.2	75.6	67.9	63.1	59.0	54.8	50.5	46.2	41.7	37.2	32.7
-62.5°	71.3	65.3	61.8	58.1	54.4	50.5	46.6	42.6	38.5	34.4	30.2
-65°	62.8	59.7	56.5	53.1	49.7	46.2	42.6	38.9	35.2	31.4	27.6
-67.5°	56.7	53.9	51.0	48.0	44.9	41.7	38.5	35.2	31.9	28.5	25.0
-70°	50.6	48.1	45.5	42.8	40.0	37.2	34.4	31.4	28.5	25.4	22.3
-72.5°	44.3	42.2	39.9	37.5	35.2	32.7	30.2	27.6	25.0	22.3	19.6
-75°	38.1	36.2	34.3	32.3	30.3	28.2	26.0	23.8	21.5	19.2	18.9
-77.5°	31.8	30.3	28.7	27.0	25.3	23.5	21.7	19.8	18.9	18.9	18.9
-80°	25.5	24.3	23.0	21.6	20.2	18.9	18.9	18.9	18.9	18.9	18.9
-82.5°	19.1	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	17.0
-85°	18.9	18.9	18.9	18.9	18.9	18.9	17.4	16.0	14.4	12.9	11.4
-87.5°	12.8	12.1	11.5	10.8	10.2	9.4	8.7	8.0	7.2	6.5	5.7
-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°	4.9	4.1	3.3	2.5	1.6	0.8	0.0
85°	9.8	8.2	6.6	4.9	3.3	1.6	0.0
82.5°	14.6	12.2	9.8	7.4	4.9	2.5	0.0
80°	18.9	16.3	13.1	9.8	6.6	3.3	0.0
77.5°	18.9	18.9	16.3	12.2	8.2	4.1	0.0
75°	18.9	18.9	18.9	14.6	9.8	4.9	0.0
72.5°	18.9	18.9	18.9	17.0	11.4	5.7	0.0
70°	19.2	18.9	18.9	18.9	12.9	6.5	0.0
67.5°	21.5	18.9	18.9	18.9	14.4	7.2	0.0
65°	23.8	19.8	18.9	18.9	16.0	8.0	0.0
62.5°	26.0	21.7	18.9	18.9	17.4	8.7	0.0
60°	28.2	23.5	18.9	18.9	18.9	9.4	0.0
57.5°	30.3	25.3	20.2	18.9	18.9	10.2	0.0
55°	32.3	27.0	21.6	18.9	18.9	10.8	0.0
52.5°	34.3	28.7	23.0	18.9	18.9	11.5	0.0
50°	36.2	30.3	24.3	18.9	18.9	12.1	0.0
47.5°	38.1	31.8	25.5	19.1	18.9	12.8	0.0
45°	39.9	33.3	26.7	20.0	18.9	13.4	0.0
42.5°	41.6	34.7	27.9	20.9	18.9	13.9	0.0
40°	43.3	36.1	28.9	21.7	18.9	14.5	0.0
37.5°	44.8	37.4	30.0	22.5	18.9	15.0	0.0
35°	46.3	38.6	30.9	23.2	18.9	15.5	0.0
32.5°	47.7	39.8	31.9	23.9	18.9	15.9	0.0
30°	49.0	40.9	32.7	24.6	18.9	16.4	0.0
27.5°	50.2	41.9	33.5	25.2	18.9	16.8	0.0
25°	51.4	42.8	34.2	25.7	18.9	17.1	0.0
22.5°	52.4	43.6	34.9	26.2	18.9	17.5	0.0
20°	53.3	44.4	35.5	26.7	18.9	17.8	0.0
17.5°	54.1	45.1	36.0	27.1	18.9	18.0	0.0
15°	54.8	45.7	36.5	27.4	18.9	18.3	0.0
12.5°	55.4	46.2	36.9	27.7	18.9	18.5	0.0
10°	55.9	46.6	37.2	28.0	18.9	18.6	0.0
7.5°	56.3	46.9	37.5	28.2	18.9	18.7	0.0
5°	56.6	47.1	37.7	28.3	18.9	18.8	0.0
2.5°	56.7	47.3	37.8	28.4	18.9	18.9	0.0
0°	56.8	47.3	37.8	28.4	18.9	18.9	0.0
-2.5°	56.7	47.3	37.8	28.4	18.9	18.9	0.0
-5°	56.6	47.1	37.7	28.3	18.9	18.8	0.0
-7.5°	56.3	46.9	37.5	28.2	18.9	18.7	0.0
-10°	55.9	46.6	37.2	28.0	18.9	18.6	0.0
-12.5°	55.4	46.2	36.9	27.7	18.9	18.5	0.0
-15°	54.8	45.7	36.5	27.4	18.9	18.3	0.0
-17.5°	54.1	45.1	36.0	27.1	18.9	18.0	0.0
-20°	53.3	44.4	35.5	26.7	18.9	17.8	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	52.4	43.6	34.9	26.2	18.9	17.5	0.0
-25°	51.4	42.8	34.2	25.7	18.9	17.1	0.0
-27.5°	50.2	41.9	33.5	25.2	18.9	16.8	0.0
-30°	49.0	40.9	32.7	24.6	18.9	16.4	0.0
-32.5°	47.7	39.8	31.9	23.9	18.9	15.9	0.0
-35°	46.3	38.6	30.9	23.2	18.9	15.5	0.0
-37.5°	44.8	37.4	30.0	22.5	18.9	15.0	0.0
-40°	43.3	36.1	28.9	21.7	18.9	14.5	0.0
-42.5°	41.6	34.7	27.9	20.9	18.9	13.9	0.0
-45°	39.9	33.3	26.7	20.0	18.9	13.4	0.0
-47.5°	38.1	31.8	25.5	19.1	18.9	12.8	0.0
-50°	36.2	30.3	24.3	18.9	18.9	12.1	0.0
-52.5°	34.3	28.7	23.0	18.9	18.9	11.5	0.0
-55°	32.3	27.0	21.6	18.9	18.9	10.8	0.0
-57.5°	30.3	25.3	20.2	18.9	18.9	10.2	0.0
-60°	28.2	23.5	18.9	18.9	18.9	9.4	0.0
-62.5°	26.0	21.7	18.9	18.9	17.4	8.7	0.0
-65°	23.8	19.8	18.9	18.9	16.0	8.0	0.0
-67.5°	21.5	18.9	18.9	18.9	14.4	7.2	0.0
-70°	19.2	18.9	18.9	18.9	12.9	6.5	0.0
-72.5°	18.9	18.9	18.9	17.0	11.4	5.7	0.0
-75°	18.9	18.9	18.9	14.6	9.8	4.9	0.0
-77.5°	18.9	18.9	16.3	12.2	8.2	4.1	0.0
-80°	18.9	16.3	13.1	9.8	6.6	3.3	0.0
-82.5°	14.6	12.2	9.8	7.4	4.9	2.5	0.0
-85°	9.8	8.2	6.6	4.9	3.3	1.6	0.0
-87.5°	4.9	4.1	3.3	2.5	1.6	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)