

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: P699949 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-80-2R-S**

Issue Date: 8/10/2023

Test Information

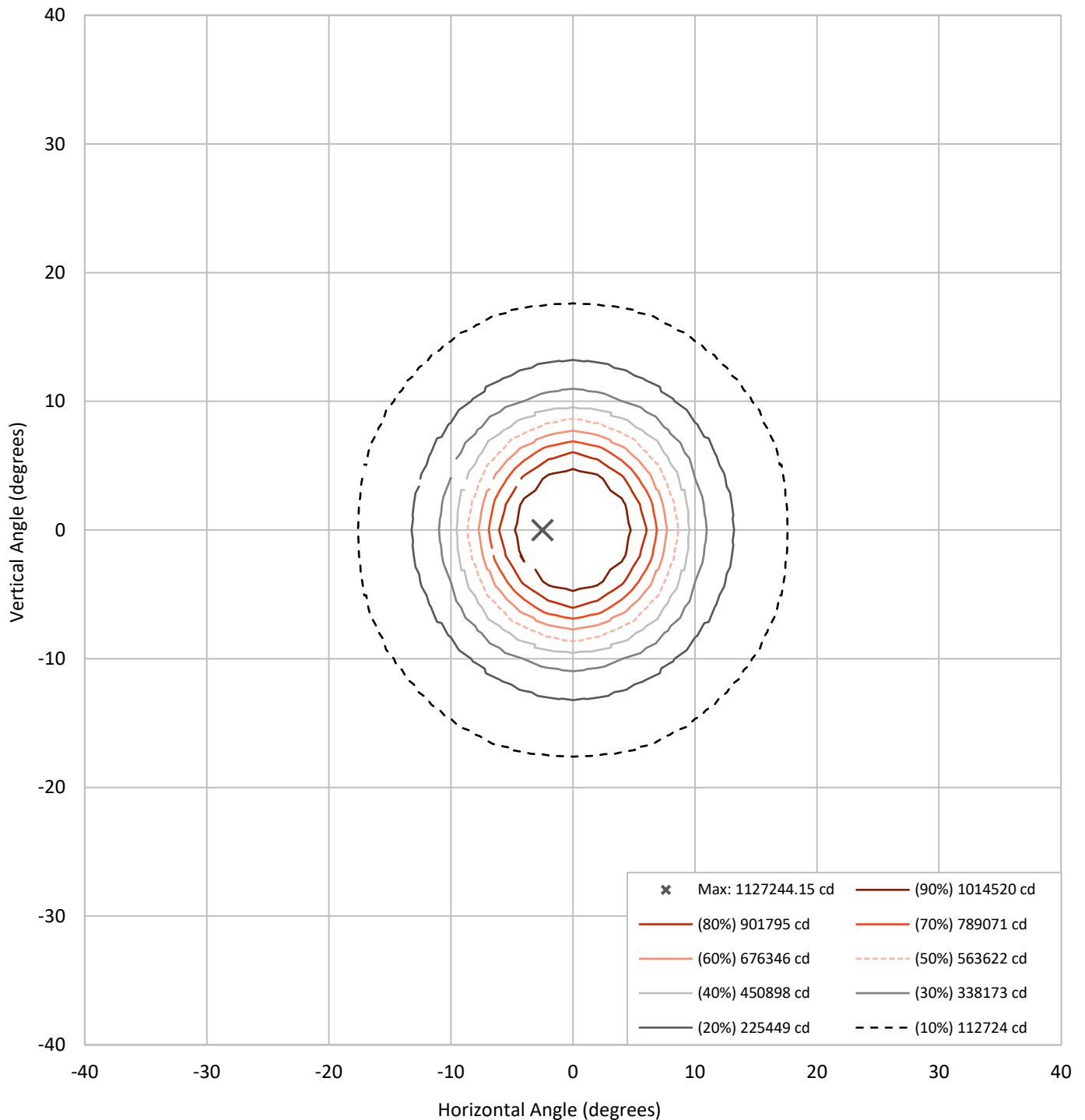
Test Method: LM-79-08
Report Number: P699949 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-15)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200R-40-80-2R-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 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:	178604.5 lumens	Max Intensity:	1127244.2 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	143.5 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:	55740.1 lumens	Field Lumens:	113992.9 lumens
Beam Efficiency:	31.2%	Field Efficiency:	63.8%
Input Watts (W):	1244.6		
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





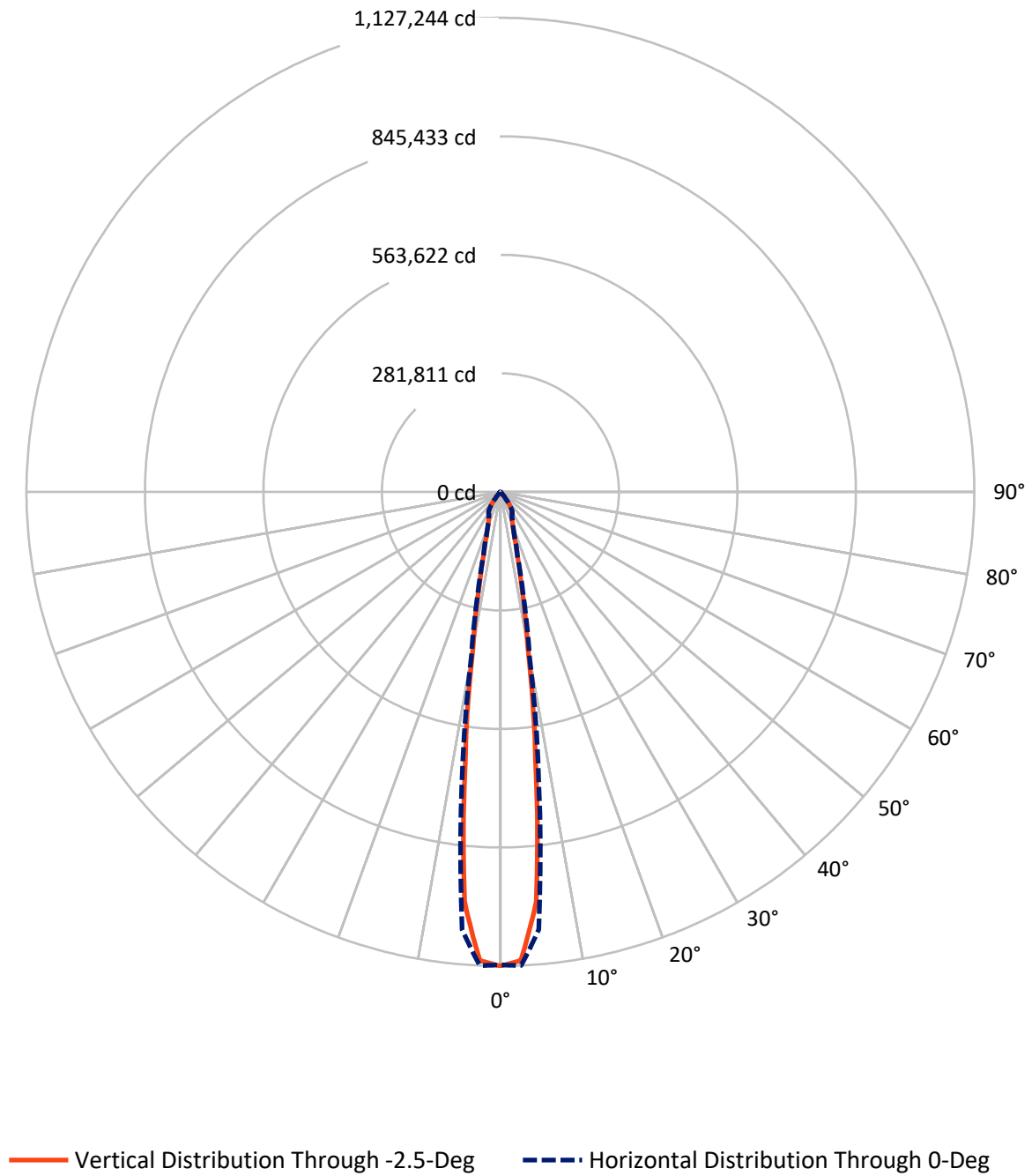
REPORT NUMBER: P699949 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table

90	0.3	1.3		2.9		4.3		4.8		4.3		2.9		1.3		0.3
80	0.3	1.3		2.9		4.3		4.8		4.3		2.9		1.3		0.3
70	0.6	0.5	0.9	1.5	2.2	3.7	5.4	6.4	6.4	5.4	3.7	2.2	1.5	0.9	0.5	0.6
60		0.7	1.4	3.6	8.0	11.4	13.9	15.4	15.4	13.9	11.4	8.0	3.6	1.4	0.7	
50	0.8	0.9	2.9	8.3	13.0	21.5	47.4	83.5	83.5	47.4	21.5	13.0	8.3	2.9	0.9	0.8
40		1.2	5.7	11.3	30.0	215.7	687.3	1037.1	1037.1	687.3	215.7	30.0	11.3	5.7	1.2	
30	1.0	1.8	7.3	16.9	197.3	1014.1	1673.1	1993.8	1993.8	1673.1	1014.1	197.3	16.9	7.3	1.8	1.0
20		2.5	8.4	35.6	591.6	1572.1	2534.5	4823.8	4823.8	2534.5	1572.1	591.6	35.6	8.4	2.5	
10	1.1	2.9	9.0	61.5	864.0	1818.3	4696.9	20470.9	20470.9	4696.9	1818.3	864.0	61.5	9.0	2.9	1.1
0		2.9	9.0	61.5	864.0	1818.3	4696.9	20470.9	20470.9	4696.9	1818.3	864.0	61.5	9.0	2.9	
-10	1.0	2.5	8.4	35.6	591.6	1572.1	2534.5	4823.8	4823.8	2534.5	1572.1	591.6	35.6	8.4	2.5	1.0
-20		1.8	7.3	16.9	197.3	1014.1	1673.1	1993.8	1993.8	1673.1	1014.1	197.3	16.9	7.3	1.8	
-30	0.8	1.2	5.7	11.3	30.0	215.7	687.3	1037.1	1037.1	687.3	215.7	30.0	11.3	5.7	1.2	0.8
-40		0.9	2.9	8.3	13.0	21.5	47.4	83.5	83.5	47.4	21.5	13.0	8.3	2.9	0.9	
-50	0.6	0.7	1.4	3.6	8.0	11.4	13.9	15.4	15.4	13.9	11.4	8.0	3.6	1.4	0.7	0.6
-60		0.5	0.9	1.5	2.2	3.7	5.4	6.4	6.4	5.4	3.7	2.2	1.5	0.9	0.5	
-70	0.3	1.3		2.9		4.3		4.8		4.3		2.9		1.3		0.3
-80		1.3		2.9		4.3		4.8		4.3		2.9		1.3		
-90	0.3	1.3		2.9		4.3		4.8		4.3		2.9		1.3		0.3

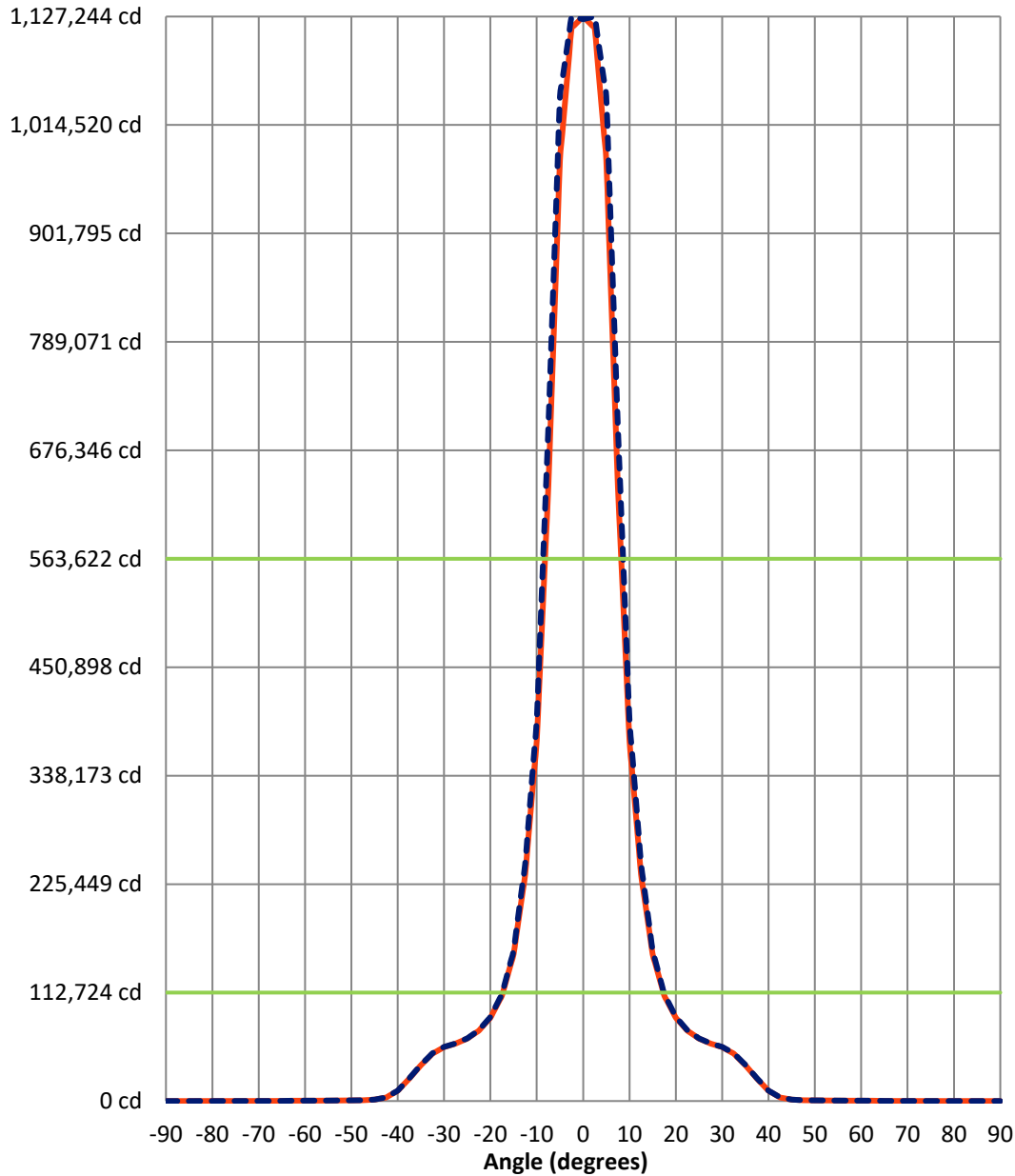
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 17.3°
 V Angle: 16.4°
 Lumens: 55740.1
 Efficiency: 31.2%

Field:
 H Angle: 34.8°
 V Angle: 34.6°
 Lumens: 113992.9
 Efficiency: 63.8%

Spill:
 Lumens: 64611.5
 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	1.7	2.5	3.3	4.1	4.9	5.7	6.5	7.3	8.1
85°	0.0	1.7	3.3	5.0	6.6	8.3	9.9	11.5	13.1	14.6	16.1
82.5°	0.0	2.5	5.0	7.5	9.9	12.4	14.8	17.2	19.1	19.1	19.1
80°	0.0	3.3	6.6	9.9	13.2	16.5	19.1	19.1	19.1	19.1	19.1
77.5°	0.0	4.1	8.3	12.4	16.5	19.1	19.1	19.1	19.1	19.1	20.1
75°	0.0	4.9	9.9	14.8	19.1	19.1	19.1	19.1	19.4	21.7	24.0
72.5°	0.0	5.7	11.5	17.2	19.1	19.1	19.1	19.8	22.6	25.3	27.9
70°	0.0	6.5	13.1	19.1	19.1	19.1	19.4	22.6	25.7	28.8	31.8
67.5°	0.0	7.3	14.6	19.1	19.1	19.1	21.7	25.3	28.8	32.2	35.6
65°	0.0	8.1	16.1	19.1	19.1	20.1	24.0	27.9	31.8	35.6	39.4
62.5°	0.0	8.8	17.6	19.1	19.1	21.9	26.3	30.5	34.8	39.0	43.1
60°	0.0	9.5	19.1	19.1	19.1	23.8	28.5	33.1	37.7	42.3	46.7
57.5°	0.0	10.3	19.1	19.1	20.5	25.5	30.6	35.6	40.6	45.5	50.3
55°	0.0	11.0	19.1	19.1	21.9	27.3	32.7	38.0	43.3	48.6	53.7
52.5°	0.0	11.6	19.1	19.1	23.2	29.0	34.7	40.4	46.0	51.6	57.1
50°	0.0	12.3	19.1	19.1	24.5	30.6	36.7	42.7	48.7	54.5	60.3
47.5°	0.0	12.9	19.1	19.3	25.8	32.2	38.6	44.9	51.2	57.3	63.5
45°	0.0	13.5	19.1	20.2	27.0	33.7	40.4	47.0	53.6	60.1	66.6
42.5°	0.0	14.1	19.1	21.1	28.1	35.2	42.1	49.1	55.9	62.7	72.0
40°	0.0	14.6	19.1	21.9	29.3	36.5	43.8	51.0	58.1	65.3	77.6
37.5°	0.0	15.2	19.1	22.7	30.3	37.9	45.4	52.8	60.3	68.3	83.0
35°	0.0	15.6	19.1	23.5	31.3	39.1	46.9	54.6	62.3	72.9	87.1
32.5°	0.0	16.1	19.1	24.2	32.2	40.3	48.3	56.2	64.2	77.2	89.5
30°	0.0	16.5	19.1	24.8	33.1	41.4	49.6	57.8	66.0	81.2	91.7
27.5°	0.0	16.9	19.1	25.4	33.9	42.4	50.8	59.2	68.2	84.9	93.8
25°	0.0	17.3	19.1	26.0	34.7	43.3	52.0	60.5	71.3	87.2	96.2
22.5°	0.0	17.6	19.1	26.5	35.4	44.2	53.0	61.7	74.0	88.8	106.8
20°	0.0	17.9	19.1	27.0	36.0	45.0	53.9	62.8	76.5	90.2	116.4
17.5°	0.0	18.2	19.1	27.4	36.5	45.6	54.7	63.8	78.7	91.5	124.9
15°	0.0	18.4	19.1	27.7	37.0	46.2	55.4	64.6	80.7	92.6	132.3
12.5°	0.0	18.6	19.1	28.0	37.4	46.7	56.0	65.4	82.3	93.5	138.7
10°	0.0	18.8	19.1	28.3	37.7	47.2	56.5	65.9	83.7	94.3	143.9
7.5°	0.0	18.9	19.1	28.5	38.0	47.5	56.9	66.4	84.7	94.9	147.9
5°	0.0	19.0	19.1	28.6	38.2	47.7	57.2	66.7	85.5	95.4	150.9
2.5°	0.0	19.1	19.1	28.7	38.3	47.9	57.3	66.9	85.9	95.6	152.6
0°	0.0	19.1	19.1	28.7	38.3	47.9	57.3	66.9	85.9	95.6	152.6
-2.5°	0.0	19.1	19.1	28.7	38.3	47.9	57.3	66.9	85.9	95.6	152.6
-5°	0.0	19.0	19.1	28.6	38.2	47.7	57.2	66.7	85.5	95.4	150.9
-7.5°	0.0	18.9	19.1	28.5	38.0	47.5	56.9	66.4	84.7	94.9	147.9
-10°	0.0	18.8	19.1	28.3	37.7	47.2	56.5	65.9	83.7	94.3	143.9
-12.5°	0.0	18.6	19.1	28.0	37.4	46.7	56.0	65.4	82.3	93.5	138.7
-15°	0.0	18.4	19.1	27.7	37.0	46.2	55.4	64.6	80.7	92.6	132.3
-17.5°	0.0	18.2	19.1	27.4	36.5	45.6	54.7	63.8	78.7	91.5	124.9
-20°	0.0	17.9	19.1	27.0	36.0	45.0	53.9	62.8	76.5	90.2	116.4



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 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2R-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	17.6	19.1	26.5	35.4	44.2	53.0	61.7	74.0	88.8	106.8
-25°	0.0	17.3	19.1	26.0	34.7	43.3	52.0	60.5	71.3	87.2	96.2
-27.5°	0.0	16.9	19.1	25.4	33.9	42.4	50.8	59.2	68.2	84.9	93.8
-30°	0.0	16.5	19.1	24.8	33.1	41.4	49.6	57.8	66.0	81.2	91.7
-32.5°	0.0	16.1	19.1	24.2	32.2	40.3	48.3	56.2	64.2	77.2	89.5
-35°	0.0	15.6	19.1	23.5	31.3	39.1	46.9	54.6	62.3	72.9	87.1
-37.5°	0.0	15.2	19.1	22.7	30.3	37.9	45.4	52.8	60.3	68.3	83.0
-40°	0.0	14.6	19.1	21.9	29.3	36.5	43.8	51.0	58.1	65.3	77.6
-42.5°	0.0	14.1	19.1	21.1	28.1	35.2	42.1	49.1	55.9	62.7	72.0
-45°	0.0	13.5	19.1	20.2	27.0	33.7	40.4	47.0	53.6	60.1	66.6
-47.5°	0.0	12.9	19.1	19.3	25.8	32.2	38.6	44.9	51.2	57.3	63.5
-50°	0.0	12.3	19.1	19.1	24.5	30.6	36.7	42.7	48.7	54.5	60.3
-52.5°	0.0	11.6	19.1	19.1	23.2	29.0	34.7	40.4	46.0	51.6	57.1
-55°	0.0	11.0	19.1	19.1	21.9	27.3	32.7	38.0	43.3	48.6	53.7
-57.5°	0.0	10.3	19.1	19.1	20.5	25.5	30.6	35.6	40.6	45.5	50.3
-60°	0.0	9.5	19.1	19.1	19.1	23.8	28.5	33.1	37.7	42.3	46.7
-62.5°	0.0	8.8	17.6	19.1	19.1	21.9	26.3	30.5	34.8	39.0	43.1
-65°	0.0	8.1	16.1	19.1	19.1	20.1	24.0	27.9	31.8	35.6	39.4
-67.5°	0.0	7.3	14.6	19.1	19.1	19.1	21.7	25.3	28.8	32.2	35.6
-70°	0.0	6.5	13.1	19.1	19.1	19.1	19.4	22.6	25.7	28.8	31.8
-72.5°	0.0	5.7	11.5	17.2	19.1	19.1	19.1	19.8	22.6	25.3	27.9
-75°	0.0	4.9	9.9	14.8	19.1	19.1	19.1	19.1	19.4	21.7	24.0
-77.5°	0.0	4.1	8.3	12.4	16.5	19.1	19.1	19.1	19.1	19.1	20.1
-80°	0.0	3.3	6.6	9.9	13.2	16.5	19.1	19.1	19.1	19.1	19.1
-82.5°	0.0	2.5	5.0	7.5	9.9	12.4	14.8	17.2	19.1	19.1	19.1
-85°	0.0	1.7	3.3	5.0	6.6	8.3	9.9	11.5	13.1	14.6	16.1
-87.5°	0.0	0.8	1.7	2.5	3.3	4.1	4.9	5.7	6.5	7.3	8.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2R-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°	8.8	9.5	10.3	11.0	11.6	12.3	12.9	13.5	14.1	14.6	15.2
85°	17.6	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
82.5°	19.1	19.1	19.1	19.1	19.1	19.1	19.3	20.2	21.1	21.9	22.7
80°	19.1	19.1	20.5	21.9	23.2	24.5	25.8	27.0	28.1	29.3	30.3
77.5°	21.9	23.8	25.5	27.3	29.0	30.6	32.2	33.7	35.2	36.5	37.9
75°	26.3	28.5	30.6	32.7	34.7	36.7	38.6	40.4	42.1	43.8	45.4
72.5°	30.5	33.1	35.6	38.0	40.4	42.7	44.9	47.0	49.1	51.0	52.8
70°	34.8	37.7	40.6	43.3	46.0	48.7	51.2	53.6	55.9	58.1	60.3
67.5°	39.0	42.3	45.5	48.6	51.6	54.5	57.3	60.1	62.7	65.3	68.3
65°	43.1	46.7	50.3	53.7	57.1	60.3	63.5	66.6	72.0	77.6	83.0
62.5°	47.2	51.1	55.0	58.8	62.5	66.1	72.2	78.9	85.4	88.8	91.8
60°	51.1	55.4	59.6	63.8	68.7	76.5	84.1	88.8	92.4	96.2	115.7
57.5°	55.0	59.6	64.2	70.4	79.2	86.9	91.0	95.0	115.0	137.2	173.5
55°	58.8	63.8	70.4	80.0	87.8	92.4	102.6	128.5	154.7	246.9	335.3
52.5°	62.5	68.7	79.2	87.8	92.8	108.0	136.8	196.9	300.1	376.7	389.1
50°	66.1	76.5	86.9	92.4	108.0	139.5	218.2	332.3	382.4	396.2	404.5
47.5°	72.2	84.1	91.0	102.6	136.8	218.2	343.1	385.2	400.6	406.5	411.3
45°	78.9	88.8	95.0	128.5	196.9	332.3	385.2	402.0	407.5	420.7	461.4
42.5°	85.4	92.4	115.0	154.7	300.1	382.4	400.6	407.5	424.7	469.4	524.8
40°	88.8	96.2	137.2	246.9	376.7	396.2	406.5	420.7	469.4	531.0	599.6
37.5°	91.8	115.7	173.5	335.3	389.1	404.5	411.3	461.4	524.8	599.6	666.5
35°	94.6	134.3	251.1	379.3	401.0	408.8	445.3	506.4	587.1	660.6	734.8
32.5°	105.3	151.9	324.5	389.7	405.4	421.7	480.1	562.1	643.0	720.6	807.8
30°	120.3	211.2	375.9	399.5	409.0	452.2	525.3	614.0	694.8	786.0	1083.8
27.5°	134.3	270.1	384.4	404.2	417.2	480.9	571.6	659.6	750.2	917.7	1454.8
25°	147.2	324.5	392.1	407.1	441.8	517.2	613.8	702.2	804.3	1243.4	2400.3
22.5°	175.4	373.4	399.3	409.7	464.4	553.9	650.2	747.6	954.1	1576.8	3436.6
20°	216.2	379.3	403.2	415.1	484.9	587.3	683.4	790.0	1211.0	2460.9	5758.5
17.5°	252.5	384.6	405.2	431.9	510.8	616.0	714.0	828.1	1442.2	3258.6	8501.8
15°	284.2	389.1	406.9	446.7	534.9	640.1	744.9	994.8	1897.8	4405.3	10990.9
12.5°	311.3	393.0	408.3	459.2	555.5	660.7	771.4	1156.3	2457.6	6340.4	14790.3
10°	333.5	396.2	409.5	469.6	572.5	677.7	793.3	1290.0	2921.9	7948.2	17954.3
7.5°	350.9	398.8	410.4	477.7	585.8	691.0	810.5	1395.1	3287.1	9214.7	20451.3
5°	363.3	400.6	411.1	483.5	595.3	700.6	822.9	1470.7	3550.1	10128.2	22255.0
2.5°	370.8	401.6	411.5	487.0	601.1	706.4	830.3	1516.3	3708.8	10679.9	23345.4
0°	373.3	402.0	411.6	488.2	603.0	708.3	832.8	1531.5	3761.9	10864.4	23710.3
-2.5°	370.8	401.6	411.5	487.0	601.1	706.4	830.3	1516.3	3708.8	10679.9	23345.4
-5°	363.3	400.6	411.1	483.5	595.3	700.6	822.9	1470.7	3550.1	10128.2	22255.0
-7.5°	350.9	398.8	410.4	477.7	585.8	691.0	810.5	1395.1	3287.1	9214.7	20451.3
-10°	333.5	396.2	409.5	469.6	572.5	677.7	793.3	1290.0	2921.9	7948.2	17954.3
-12.5°	311.3	393.0	408.3	459.2	555.5	660.7	771.4	1156.3	2457.6	6340.4	14790.3
-15°	284.2	389.1	406.9	446.7	534.9	640.1	744.9	994.8	1897.8	4405.3	10990.9
-17.5°	252.5	384.6	405.2	431.9	510.8	616.0	714.0	828.1	1442.2	3258.6	8501.8
-20°	216.2	379.3	403.2	415.1	484.9	587.3	683.4	790.0	1211.0	2460.9	5758.5



REPORT NUMBER: P699949 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2R-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	175.4	373.4	399.3	409.7	464.4	553.9	650.2	747.6	954.1	1576.8	3436.6
-25°	147.2	324.5	392.1	407.1	441.8	517.2	613.8	702.2	804.3	1243.4	2400.3
-27.5°	134.3	270.1	384.4	404.2	417.2	480.9	571.6	659.6	750.2	917.7	1454.8
-30°	120.3	211.2	375.9	399.5	409.0	452.2	525.3	614.0	694.8	786.0	1083.8
-32.5°	105.3	151.9	324.5	389.7	405.4	421.7	480.1	562.1	643.0	720.6	807.8
-35°	94.6	134.3	251.1	379.3	401.0	408.8	445.3	506.4	587.1	660.6	734.8
-37.5°	91.8	115.7	173.5	335.3	389.1	404.5	411.3	461.4	524.8	599.6	666.5
-40°	88.8	96.2	137.2	246.9	376.7	396.2	406.5	420.7	469.4	531.0	599.6
-42.5°	85.4	92.4	115.0	154.7	300.1	382.4	400.6	407.5	424.7	469.4	524.8
-45°	78.9	88.8	95.0	128.5	196.9	332.3	385.2	402.0	407.5	420.7	461.4
-47.5°	72.2	84.1	91.0	102.6	136.8	218.2	343.1	385.2	400.6	406.5	411.3
-50°	66.1	76.5	86.9	92.4	108.0	139.5	218.2	332.3	382.4	396.2	404.5
-52.5°	62.5	68.7	79.2	87.8	92.8	108.0	136.8	196.9	300.1	376.7	389.1
-55°	58.8	63.8	70.4	80.0	87.8	92.4	102.6	128.5	154.7	246.9	335.3
-57.5°	55.0	59.6	64.2	70.4	79.2	86.9	91.0	95.0	115.0	137.2	173.5
-60°	51.1	55.4	59.6	63.8	68.7	76.5	84.1	88.8	92.4	96.2	115.7
-62.5°	47.2	51.1	55.0	58.8	62.5	66.1	72.2	78.9	85.4	88.8	91.8
-65°	43.1	46.7	50.3	53.7	57.1	60.3	63.5	66.6	72.0	77.6	83.0
-67.5°	39.0	42.3	45.5	48.6	51.6	54.5	57.3	60.1	62.7	65.3	68.3
-70°	34.8	37.7	40.6	43.3	46.0	48.7	51.2	53.6	55.9	58.1	60.3
-72.5°	30.5	33.1	35.6	38.0	40.4	42.7	44.9	47.0	49.1	51.0	52.8
-75°	26.3	28.5	30.6	32.7	34.7	36.7	38.6	40.4	42.1	43.8	45.4
-77.5°	21.9	23.8	25.5	27.3	29.0	30.6	32.2	33.7	35.2	36.5	37.9
-80°	19.1	19.1	20.5	21.9	23.2	24.5	25.8	27.0	28.1	29.3	30.3
-82.5°	19.1	19.1	19.1	19.1	19.1	19.1	19.3	20.2	21.1	21.9	22.7
-85°	17.6	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
-87.5°	8.8	9.5	10.3	11.0	11.6	12.3	12.9	13.5	14.1	14.6	15.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699949 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2R-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°	15.6	16.1	16.5	16.9	17.3	17.6	17.9	18.2	18.4	18.6	18.8
85°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
82.5°	23.5	24.2	24.8	25.4	26.0	26.5	27.0	27.4	27.7	28.0	28.3
80°	31.3	32.2	33.1	33.9	34.7	35.4	36.0	36.5	37.0	37.4	37.7
77.5°	39.1	40.3	41.4	42.4	43.3	44.2	45.0	45.6	46.2	46.7	47.2
75°	46.9	48.3	49.6	50.8	52.0	53.0	53.9	54.7	55.4	56.0	56.5
72.5°	54.6	56.2	57.8	59.2	60.5	61.7	62.8	63.8	64.6	65.4	65.9
70°	62.3	64.2	66.0	68.2	71.3	74.0	76.5	78.7	80.7	82.3	83.7
67.5°	72.9	77.2	81.2	84.9	87.2	88.8	90.2	91.5	92.6	93.5	94.3
65°	87.1	89.5	91.7	93.8	96.2	106.8	116.4	124.9	132.3	138.7	143.9
62.5°	94.6	105.3	120.3	134.3	147.2	175.4	216.2	252.5	284.2	311.3	333.5
60°	134.3	151.9	211.2	270.1	324.5	373.4	379.3	384.6	389.1	393.0	396.2
57.5°	251.1	324.5	375.9	384.4	392.1	399.3	403.2	405.2	406.9	408.3	409.5
55°	379.3	389.7	399.5	404.2	407.1	409.7	415.1	431.9	446.7	459.2	469.6
52.5°	401.0	405.4	409.0	417.2	441.8	464.4	484.9	510.8	534.9	555.5	572.5
50°	408.8	421.7	452.2	480.9	517.2	553.9	587.3	616.0	640.1	660.7	677.7
47.5°	445.3	480.1	525.3	571.6	613.8	650.2	683.4	714.0	744.9	771.4	793.3
45°	506.4	562.1	614.0	659.6	702.2	747.6	790.0	828.1	994.8	1156.3	1290.0
42.5°	587.1	643.0	694.8	750.2	804.3	954.1	1211.0	1442.2	1897.8	2457.6	2921.9
40°	660.6	720.6	786.0	917.7	1243.4	1576.8	2460.9	3258.6	4405.3	6340.4	7948.2
37.5°	734.8	807.8	1083.8	1454.8	2400.3	3436.6	5758.5	8501.8	10990.9	14790.3	17954.3
35°	815.1	1167.8	1698.0	2960.6	5002.3	8542.5	12568.0	17925.4	22690.6	27086.5	30830.5
32.5°	1167.8	1836.2	3244.3	6392.2	10441.6	16961.9	23311.9	29561.7	35171.8	39713.1	43223.1
30°	1698.0	3244.3	6859.7	11841.7	19651.5	27282.8	34700.3	40949.1	46177.7	50257.3	52376.4
27.5°	2960.6	6392.2	11841.7	20557.3	29318.6	37829.1	44679.6	50388.2	53522.7	56272.2	57546.6
25°	5002.3	10441.6	19651.5	29318.6	38743.9	46581.0	52023.0	55780.5	57869.9	59511.9	61364.3
22.5°	8542.5	16961.9	27282.8	37829.1	46581.0	52575.8	56640.2	58857.3	61326.9	63945.0	66793.7
20°	12568.0	23311.9	34700.3	44679.6	52023.0	56640.2	59192.2	62352.0	65792.0	70383.2	74855.7
17.5°	17925.4	29561.7	40949.1	50388.2	55780.5	58857.3	62352.0	66669.5	72244.1	79726.2	87020.0
15°	22690.6	35171.8	46177.7	53522.7	57869.9	61326.9	65792.0	72244.1	81396.7	92865.3	106902.8
12.5°	27086.5	39713.1	50257.3	56272.2	59511.9	63945.0	70383.2	79726.2	92865.3	110312.2	139043.6
10°	30830.5	43223.1	52376.4	57546.6	61364.3	66793.7	74855.7	87020.0	106902.8	139043.6	181482.7
7.5°	33792.0	46007.1	54063.0	58560.7	62995.5	69687.8	80201.0	97070.4	125135.4	169050.6	247701.4
5°	35934.9	48026.2	55289.5	59300.7	64191.2	71821.5	84172.2	104849.9	142003.0	205975.7	315787.5
2.5°	37232.2	49250.3	56034.5	59751.3	64921.7	73130.4	86622.6	109689.7	152623.2	235330.2	374813.9
0°	37666.5	49660.5	56284.4	59902.7	65167.4	73571.8	87451.5	111334.1	156256.3	246636.9	396585.1
-2.5°	37232.2	49250.3	56034.5	59751.3	64921.7	73130.4	86622.6	109689.7	152623.2	235330.2	374813.9
-5°	35934.9	48026.2	55289.5	59300.7	64191.2	71821.5	84172.2	104849.9	142003.0	205975.7	315787.5
-7.5°	33792.0	46007.1	54063.0	58560.7	62995.5	69687.8	80201.0	97070.4	125135.4	169050.6	247701.4
-10°	30830.5	43223.1	52376.4	57546.6	61364.3	66793.7	74855.7	87020.0	106902.8	139043.6	181482.7
-12.5°	27086.5	39713.1	50257.3	56272.2	59511.9	63945.0	70383.2	79726.2	92865.3	110312.2	139043.6
-15°	22690.6	35171.8	46177.7	53522.7	57869.9	61326.9	65792.0	72244.1	81396.7	92865.3	106902.8
-17.5°	17925.4	29561.7	40949.1	50388.2	55780.5	58857.3	62352.0	66669.5	72244.1	79726.2	87020.0
-20°	12568.0	23311.9	34700.3	44679.6	52023.0	56640.2	59192.2	62352.0	65792.0	70383.2	74855.7



REPORT NUMBER: P699949 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2R-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8542.5	16961.9	27282.8	37829.1	46581.0	52575.8	56640.2	58857.3	61326.9	63945.0	66793.7
-25°	5002.3	10441.6	19651.5	29318.6	38743.9	46581.0	52023.0	55780.5	57869.9	59511.9	61364.3
-27.5°	2960.6	6392.2	11841.7	20557.3	29318.6	37829.1	44679.6	50388.2	53522.7	56272.2	57546.6
-30°	1698.0	3244.3	6859.7	11841.7	19651.5	27282.8	34700.3	40949.1	46177.7	50257.3	52376.4
-32.5°	1167.8	1836.2	3244.3	6392.2	10441.6	16961.9	23311.9	29561.7	35171.8	39713.1	43223.1
-35°	815.1	1167.8	1698.0	2960.6	5002.3	8542.5	12568.0	17925.4	22690.6	27086.5	30830.5
-37.5°	734.8	807.8	1083.8	1454.8	2400.3	3436.6	5758.5	8501.8	10990.9	14790.3	17954.3
-40°	660.6	720.6	786.0	917.7	1243.4	1576.8	2460.9	3258.6	4405.3	6340.4	7948.2
-42.5°	587.1	643.0	694.8	750.2	804.3	954.1	1211.0	1442.2	1897.8	2457.6	2921.9
-45°	506.4	562.1	614.0	659.6	702.2	747.6	790.0	828.1	994.8	1156.3	1290.0
-47.5°	445.3	480.1	525.3	571.6	613.8	650.2	683.4	714.0	744.9	771.4	793.3
-50°	408.8	421.7	452.2	480.9	517.2	553.9	587.3	616.0	640.1	660.7	677.7
-52.5°	401.0	405.4	409.0	417.2	441.8	464.4	484.9	510.8	534.9	555.5	572.5
-55°	379.3	389.7	399.5	404.2	407.1	409.7	415.1	431.9	446.7	459.2	469.6
-57.5°	251.1	324.5	375.9	384.4	392.1	399.3	403.2	405.2	406.9	408.3	409.5
-60°	134.3	151.9	211.2	270.1	324.5	373.4	379.3	384.6	389.1	393.0	396.2
-62.5°	94.6	105.3	120.3	134.3	147.2	175.4	216.2	252.5	284.2	311.3	333.5
-65°	87.1	89.5	91.7	93.8	96.2	106.8	116.4	124.9	132.3	138.7	143.9
-67.5°	72.9	77.2	81.2	84.9	87.2	88.8	90.2	91.5	92.6	93.5	94.3
-70°	62.3	64.2	66.0	68.2	71.3	74.0	76.5	78.7	80.7	82.3	83.7
-72.5°	54.6	56.2	57.8	59.2	60.5	61.7	62.8	63.8	64.6	65.4	65.9
-75°	46.9	48.3	49.6	50.8	52.0	53.0	53.9	54.7	55.4	56.0	56.5
-77.5°	39.1	40.3	41.4	42.4	43.3	44.2	45.0	45.6	46.2	46.7	47.2
-80°	31.3	32.2	33.1	33.9	34.7	35.4	36.0	36.5	37.0	37.4	37.7
-82.5°	23.5	24.2	24.8	25.4	26.0	26.5	27.0	27.4	27.7	28.0	28.3
-85°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
-87.5°	15.6	16.1	16.5	16.9	17.3	17.6	17.9	18.2	18.4	18.6	18.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699949 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2R-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°	18.9	19.0	19.1	19.1	19.1	19.0	18.9	18.8	18.6	18.4	18.2
85°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
82.5°	28.5	28.6	28.7	28.7	28.7	28.6	28.5	28.3	28.0	27.7	27.4
80°	38.0	38.2	38.3	38.3	38.3	38.2	38.0	37.7	37.4	37.0	36.5
77.5°	47.5	47.7	47.9	47.9	47.9	47.7	47.5	47.2	46.7	46.2	45.6
75°	56.9	57.2	57.3	57.4	57.3	57.2	56.9	56.5	56.0	55.4	54.7
72.5°	66.4	66.7	66.9	67.0	66.9	66.7	66.4	65.9	65.4	64.6	63.8
70°	84.7	85.5	85.9	86.1	85.9	85.5	84.7	83.7	82.3	80.7	78.7
67.5°	94.9	95.4	95.6	95.7	95.6	95.4	94.9	94.3	93.5	92.6	91.5
65°	147.9	150.9	152.6	153.2	152.6	150.9	147.9	143.9	138.7	132.3	124.9
62.5°	350.9	363.3	370.8	373.3	370.8	363.3	350.9	333.5	311.3	284.2	252.5
60°	398.8	400.6	401.6	402.0	401.6	400.6	398.8	396.2	393.0	389.1	384.6
57.5°	410.4	411.1	411.5	411.6	411.5	411.1	410.4	409.5	408.3	406.9	405.2
55°	477.7	483.5	487.0	488.2	487.0	483.5	477.7	469.6	459.2	446.7	431.9
52.5°	585.8	595.3	601.1	603.0	601.1	595.3	585.8	572.5	555.5	534.9	510.8
50°	691.0	700.6	706.4	708.3	706.4	700.6	691.0	677.7	660.7	640.1	616.0
47.5°	810.5	822.9	830.3	832.8	830.3	822.9	810.5	793.3	771.4	744.9	714.0
45°	1395.1	1470.7	1516.3	1531.5	1516.3	1470.7	1395.1	1290.0	1156.3	994.8	828.1
42.5°	3287.1	3550.1	3708.8	3761.9	3708.8	3550.1	3287.1	2921.9	2457.6	1897.8	1442.2
40°	9214.7	10128.2	10679.9	10864.4	10679.9	10128.2	9214.7	7948.2	6340.4	4405.3	3258.6
37.5°	20451.3	22255.0	23345.4	23710.3	23345.4	22255.0	20451.3	17954.3	14790.3	10990.9	8501.8
35°	33792.0	35934.9	37232.2	37666.5	37232.2	35934.9	33792.0	30830.5	27086.5	22690.6	17925.4
32.5°	46007.1	48026.2	49250.3	49660.5	49250.3	48026.2	46007.1	43223.1	39713.1	35171.8	29561.7
30°	54063.0	55289.5	56034.5	56284.4	56034.5	55289.5	54063.0	52376.4	50257.3	46177.7	40949.1
27.5°	58560.7	59300.7	59751.3	59902.7	59751.3	59300.7	58560.7	57546.6	56272.2	53522.7	50388.2
25°	62995.5	64191.2	64921.7	65167.4	64921.7	64191.2	62995.5	61364.3	59511.9	57869.9	55780.5
22.5°	69687.8	71821.5	73130.4	73571.8	73130.4	71821.5	69687.8	66793.7	63945.0	61326.9	58857.3
20°	80201.0	84172.2	86622.6	87451.5	86622.6	84172.2	80201.0	74855.7	70383.2	65792.0	62352.0
17.5°	97070.4	104849.9	109689.7	111334.1	109689.7	104849.9	97070.4	87020.0	79726.2	72244.1	66669.5
15°	125135.4	142003.0	152623.2	156256.3	152623.2	142003.0	125135.4	106902.8	92865.3	81396.7	72244.1
12.5°	169050.6	205975.7	235330.2	246636.9	235330.2	205975.7	169050.6	139043.6	110312.2	92865.3	79726.2
10°	247701.4	315787.5	374813.9	396585.1	374813.9	315787.5	247701.4	181482.7	139043.6	106902.8	87020.0
7.5°	354325.0	493384.4	638991.7	701339.5	638991.7	493384.4	354325.0	247701.4	169050.6	125135.4	97070.4
5°	493384.4	768322.3	977734.7	#####	977734.7	768322.3	493384.4	315787.5	205975.7	142003.0	104849.9
2.5°	638991.7	977734.7	#####	#####	#####	977734.7	638991.7	374813.9	235330.2	152623.2	109689.7
0°	701339.5	#####	#####	#####	#####	701339.5	396585.1	246636.9	156256.3	111334.1	
-2.5°	638991.7	977734.7	#####	#####	#####	977734.7	638991.7	374813.9	235330.2	152623.2	109689.7
-5°	493384.4	768322.3	977734.7	#####	977734.7	768322.3	493384.4	315787.5	205975.7	142003.0	104849.9
-7.5°	354325.0	493384.4	638991.7	701339.5	638991.7	493384.4	354325.0	247701.4	169050.6	125135.4	97070.4
-10°	247701.4	315787.5	374813.9	396585.1	374813.9	315787.5	247701.4	181482.7	139043.6	106902.8	87020.0
-12.5°	169050.6	205975.7	235330.2	246636.9	235330.2	205975.7	169050.6	139043.6	110312.2	92865.3	79726.2
-15°	125135.4	142003.0	152623.2	156256.3	152623.2	142003.0	125135.4	106902.8	92865.3	81396.7	72244.1
-17.5°	97070.4	104849.9	109689.7	111334.1	109689.7	104849.9	97070.4	87020.0	79726.2	72244.1	66669.5
-20°	80201.0	84172.2	86622.6	87451.5	86622.6	84172.2	80201.0	74855.7	70383.2	65792.0	62352.0



REPORT NUMBER: P699949 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2R-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	69687.8	71821.5	73130.4	73571.8	73130.4	71821.5	69687.8	66793.7	63945.0	61326.9	58857.3
-25°	62995.5	64191.2	64921.7	65167.4	64921.7	64191.2	62995.5	61364.3	59511.9	57869.9	55780.5
-27.5°	58560.7	59300.7	59751.3	59902.7	59751.3	59300.7	58560.7	57546.6	56272.2	53522.7	50388.2
-30°	54063.0	55289.5	56034.5	56284.4	56034.5	55289.5	54063.0	52376.4	50257.3	46177.7	40949.1
-32.5°	46007.1	48026.2	49250.3	49660.5	49250.3	48026.2	46007.1	43223.1	39713.1	35171.8	29561.7
-35°	33792.0	35934.9	37232.2	37666.5	37232.2	35934.9	33792.0	30830.5	27086.5	22690.6	17925.4
-37.5°	20451.3	22255.0	23345.4	23710.3	23345.4	22255.0	20451.3	17954.3	14790.3	10990.9	8501.8
-40°	9214.7	10128.2	10679.9	10864.4	10679.9	10128.2	9214.7	7948.2	6340.4	4405.3	3258.6
-42.5°	3287.1	3550.1	3708.8	3761.9	3708.8	3550.1	3287.1	2921.9	2457.6	1897.8	1442.2
-45°	1395.1	1470.7	1516.3	1531.5	1516.3	1470.7	1395.1	1290.0	1156.3	994.8	828.1
-47.5°	810.5	822.9	830.3	832.8	830.3	822.9	810.5	793.3	771.4	744.9	714.0
-50°	691.0	700.6	706.4	708.3	706.4	700.6	691.0	677.7	660.7	640.1	616.0
-52.5°	585.8	595.3	601.1	603.0	601.1	595.3	585.8	572.5	555.5	534.9	510.8
-55°	477.7	483.5	487.0	488.2	487.0	483.5	477.7	469.6	459.2	446.7	431.9
-57.5°	410.4	411.1	411.5	411.6	411.5	411.1	410.4	409.5	408.3	406.9	405.2
-60°	398.8	400.6	401.6	402.0	401.6	400.6	398.8	396.2	393.0	389.1	384.6
-62.5°	350.9	363.3	370.8	373.3	370.8	363.3	350.9	333.5	311.3	284.2	252.5
-65°	147.9	150.9	152.6	153.2	152.6	150.9	147.9	143.9	138.7	132.3	124.9
-67.5°	94.9	95.4	95.6	95.7	95.6	95.4	94.9	94.3	93.5	92.6	91.5
-70°	84.7	85.5	85.9	86.1	85.9	85.5	84.7	83.7	82.3	80.7	78.7
-72.5°	66.4	66.7	66.9	67.0	66.9	66.7	66.4	65.9	65.4	64.6	63.8
-75°	56.9	57.2	57.3	57.4	57.3	57.2	56.9	56.5	56.0	55.4	54.7
-77.5°	47.5	47.7	47.9	47.9	47.9	47.7	47.5	47.2	46.7	46.2	45.6
-80°	38.0	38.2	38.3	38.3	38.3	38.2	38.0	37.7	37.4	37.0	36.5
-82.5°	28.5	28.6	28.7	28.7	28.7	28.6	28.5	28.3	28.0	27.7	27.4
-85°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
-87.5°	18.9	19.0	19.1	19.1	19.1	19.0	18.9	18.8	18.6	18.4	18.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699949 (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°	17.9	17.6	17.3	16.9	16.5	16.1	15.6	15.2	14.6	14.1	13.5
85°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
82.5°	27.0	26.5	26.0	25.4	24.8	24.2	23.5	22.7	21.9	21.1	20.2
80°	36.0	35.4	34.7	33.9	33.1	32.2	31.3	30.3	29.3	28.1	27.0
77.5°	45.0	44.2	43.3	42.4	41.4	40.3	39.1	37.9	36.5	35.2	33.7
75°	53.9	53.0	52.0	50.8	49.6	48.3	46.9	45.4	43.8	42.1	40.4
72.5°	62.8	61.7	60.5	59.2	57.8	56.2	54.6	52.8	51.0	49.1	47.0
70°	76.5	74.0	71.3	68.2	66.0	64.2	62.3	60.3	58.1	55.9	53.6
67.5°	90.2	88.8	87.2	84.9	81.2	77.2	72.9	68.3	65.3	62.7	60.1
65°	116.4	106.8	96.2	93.8	91.7	89.5	87.1	83.0	77.6	72.0	66.6
62.5°	216.2	175.4	147.2	134.3	120.3	105.3	94.6	91.8	88.8	85.4	78.9
60°	379.3	373.4	324.5	270.1	211.2	151.9	134.3	115.7	96.2	92.4	88.8
57.5°	403.2	399.3	392.1	384.4	375.9	324.5	251.1	173.5	137.2	115.0	95.0
55°	415.1	409.7	407.1	404.2	399.5	389.7	379.3	335.3	246.9	154.7	128.5
52.5°	484.9	464.4	441.8	417.2	409.0	405.4	401.0	389.1	376.7	300.1	196.9
50°	587.3	553.9	517.2	480.9	452.2	421.7	408.8	404.5	396.2	382.4	332.3
47.5°	683.4	650.2	613.8	571.6	525.3	480.1	445.3	411.3	406.5	400.6	385.2
45°	790.0	747.6	702.2	659.6	614.0	562.1	506.4	461.4	420.7	407.5	402.0
42.5°	1211.0	954.1	804.3	750.2	694.8	643.0	587.1	524.8	469.4	424.7	407.5
40°	2460.9	1576.8	1243.4	917.7	786.0	720.6	660.6	599.6	531.0	469.4	420.7
37.5°	5758.5	3436.6	2400.3	1454.8	1083.8	807.8	734.8	666.5	599.6	524.8	461.4
35°	12568.0	8542.5	5002.3	2960.6	1698.0	1167.8	815.1	734.8	660.6	587.1	506.4
32.5°	23311.9	16961.9	10441.6	6392.2	3244.3	1836.2	1167.8	807.8	720.6	643.0	562.1
30°	34700.3	27282.8	19651.5	11841.7	6859.7	3244.3	1698.0	1083.8	786.0	694.8	614.0
27.5°	44679.6	37829.1	29318.6	20557.3	11841.7	6392.2	2960.6	1454.8	917.7	750.2	659.6
25°	52023.0	46581.0	38743.9	29318.6	19651.5	10441.6	5002.3	2400.3	1243.4	804.3	702.2
22.5°	56640.2	52575.8	46581.0	37829.1	27282.8	16961.9	8542.5	3436.6	1576.8	954.1	747.6
20°	59192.2	56640.2	52023.0	44679.6	34700.3	23311.9	12568.0	5758.5	2460.9	1211.0	790.0
17.5°	62352.0	58857.3	55780.5	50388.2	40949.1	29561.7	17925.4	8501.8	3258.6	1442.2	828.1
15°	65792.0	61326.9	57869.9	53522.7	46177.7	35171.8	22690.6	10990.9	4405.3	1897.8	994.8
12.5°	70383.2	63945.0	59511.9	56272.2	50257.3	39713.1	27086.5	14790.3	6340.4	2457.6	1156.3
10°	74855.7	66793.7	61364.3	57546.6	52376.4	43223.1	30830.5	17954.3	7948.2	2921.9	1290.0
7.5°	80201.0	69687.8	62995.5	58560.7	54063.0	46007.1	33792.0	20451.3	9214.7	3287.1	1395.1
5°	84172.2	71821.5	64191.2	59300.7	55289.5	48026.2	35934.9	22255.0	10128.2	3550.1	1470.7
2.5°	86622.6	73130.4	64921.7	59751.3	56034.5	49250.3	37232.2	23345.4	10679.9	3708.8	1516.3
0°	87451.5	73571.8	65167.4	59902.7	56284.4	49660.5	37666.5	23710.3	10864.4	3761.9	1531.5
-2.5°	86622.6	73130.4	64921.7	59751.3	56034.5	49250.3	37232.2	23345.4	10679.9	3708.8	1516.3
-5°	84172.2	71821.5	64191.2	59300.7	55289.5	48026.2	35934.9	22255.0	10128.2	3550.1	1470.7
-7.5°	80201.0	69687.8	62995.5	58560.7	54063.0	46007.1	33792.0	20451.3	9214.7	3287.1	1395.1
-10°	74855.7	66793.7	61364.3	57546.6	52376.4	43223.1	30830.5	17954.3	7948.2	2921.9	1290.0
-12.5°	70383.2	63945.0	59511.9	56272.2	50257.3	39713.1	27086.5	14790.3	6340.4	2457.6	1156.3
-15°	65792.0	61326.9	57869.9	53522.7	46177.7	35171.8	22690.6	10990.9	4405.3	1897.8	994.8
-17.5°	62352.0	58857.3	55780.5	50388.2	40949.1	29561.7	17925.4	8501.8	3258.6	1442.2	828.1
-20°	59192.2	56640.2	52023.0	44679.6	34700.3	23311.9	12568.0	5758.5	2460.9	1211.0	790.0



REPORT NUMBER: P699949 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2R-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	56640.2	52575.8	46581.0	37829.1	27282.8	16961.9	8542.5	3436.6	1576.8	954.1	747.6
-25°	52023.0	46581.0	38743.9	29318.6	19651.5	10441.6	5002.3	2400.3	1243.4	804.3	702.2
-27.5°	44679.6	37829.1	29318.6	20557.3	11841.7	6392.2	2960.6	1454.8	917.7	750.2	659.6
-30°	34700.3	27282.8	19651.5	11841.7	6859.7	3244.3	1698.0	1083.8	786.0	694.8	614.0
-32.5°	23311.9	16961.9	10441.6	6392.2	3244.3	1836.2	1167.8	807.8	720.6	643.0	562.1
-35°	12568.0	8542.5	5002.3	2960.6	1698.0	1167.8	815.1	734.8	660.6	587.1	506.4
-37.5°	5758.5	3436.6	2400.3	1454.8	1083.8	807.8	734.8	666.5	599.6	524.8	461.4
-40°	2460.9	1576.8	1243.4	917.7	786.0	720.6	660.6	599.6	531.0	469.4	420.7
-42.5°	1211.0	954.1	804.3	750.2	694.8	643.0	587.1	524.8	469.4	424.7	407.5
-45°	790.0	747.6	702.2	659.6	614.0	562.1	506.4	461.4	420.7	407.5	402.0
-47.5°	683.4	650.2	613.8	571.6	525.3	480.1	445.3	411.3	406.5	400.6	385.2
-50°	587.3	553.9	517.2	480.9	452.2	421.7	408.8	404.5	396.2	382.4	332.3
-52.5°	484.9	464.4	441.8	417.2	409.0	405.4	401.0	389.1	376.7	300.1	196.9
-55°	415.1	409.7	407.1	404.2	399.5	389.7	379.3	335.3	246.9	154.7	128.5
-57.5°	403.2	399.3	392.1	384.4	375.9	324.5	251.1	173.5	137.2	115.0	95.0
-60°	379.3	373.4	324.5	270.1	211.2	151.9	134.3	115.7	96.2	92.4	88.8
-62.5°	216.2	175.4	147.2	134.3	120.3	105.3	94.6	91.8	88.8	85.4	78.9
-65°	116.4	106.8	96.2	93.8	91.7	89.5	87.1	83.0	77.6	72.0	66.6
-67.5°	90.2	88.8	87.2	84.9	81.2	77.2	72.9	68.3	65.3	62.7	60.1
-70°	76.5	74.0	71.3	68.2	66.0	64.2	62.3	60.3	58.1	55.9	53.6
-72.5°	62.8	61.7	60.5	59.2	57.8	56.2	54.6	52.8	51.0	49.1	47.0
-75°	53.9	53.0	52.0	50.8	49.6	48.3	46.9	45.4	43.8	42.1	40.4
-77.5°	45.0	44.2	43.3	42.4	41.4	40.3	39.1	37.9	36.5	35.2	33.7
-80°	36.0	35.4	34.7	33.9	33.1	32.2	31.3	30.3	29.3	28.1	27.0
-82.5°	27.0	26.5	26.0	25.4	24.8	24.2	23.5	22.7	21.9	21.1	20.2
-85°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
-87.5°	17.9	17.6	17.3	16.9	16.5	16.1	15.6	15.2	14.6	14.1	13.5
-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: P699949 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-2R-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°	12.9	12.3	11.6	11.0	10.3	9.5	8.8	8.1	7.3	6.5	5.7
85°	19.1	19.1	19.1	19.1	19.1	19.1	17.6	16.1	14.6	13.1	11.5
82.5°	19.3	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	17.2
80°	25.8	24.5	23.2	21.9	20.5	19.1	19.1	19.1	19.1	19.1	19.1
77.5°	32.2	30.6	29.0	27.3	25.5	23.8	21.9	20.1	19.1	19.1	19.1
75°	38.6	36.7	34.7	32.7	30.6	28.5	26.3	24.0	21.7	19.4	19.1
72.5°	44.9	42.7	40.4	38.0	35.6	33.1	30.5	27.9	25.3	22.6	19.8
70°	51.2	48.7	46.0	43.3	40.6	37.7	34.8	31.8	28.8	25.7	22.6
67.5°	57.3	54.5	51.6	48.6	45.5	42.3	39.0	35.6	32.2	28.8	25.3
65°	63.5	60.3	57.1	53.7	50.3	46.7	43.1	39.4	35.6	31.8	27.9
62.5°	72.2	66.1	62.5	58.8	55.0	51.1	47.2	43.1	39.0	34.8	30.5
60°	84.1	76.5	68.7	63.8	59.6	55.4	51.1	46.7	42.3	37.7	33.1
57.5°	91.0	86.9	79.2	70.4	64.2	59.6	55.0	50.3	45.5	40.6	35.6
55°	102.6	92.4	87.8	80.0	70.4	63.8	58.8	53.7	48.6	43.3	38.0
52.5°	136.8	108.0	92.8	87.8	79.2	68.7	62.5	57.1	51.6	46.0	40.4
50°	218.2	139.5	108.0	92.4	86.9	76.5	66.1	60.3	54.5	48.7	42.7
47.5°	343.1	218.2	136.8	102.6	91.0	84.1	72.2	63.5	57.3	51.2	44.9
45°	385.2	332.3	196.9	128.5	95.0	88.8	78.9	66.6	60.1	53.6	47.0
42.5°	400.6	382.4	300.1	154.7	115.0	92.4	85.4	72.0	62.7	55.9	49.1
40°	406.5	396.2	376.7	246.9	137.2	96.2	88.8	77.6	65.3	58.1	51.0
37.5°	411.3	404.5	389.1	335.3	173.5	115.7	91.8	83.0	68.3	60.3	52.8
35°	445.3	408.8	401.0	379.3	251.1	134.3	94.6	87.1	72.9	62.3	54.6
32.5°	480.1	421.7	405.4	389.7	324.5	151.9	105.3	89.5	77.2	64.2	56.2
30°	525.3	452.2	409.0	399.5	375.9	211.2	120.3	91.7	81.2	66.0	57.8
27.5°	571.6	480.9	417.2	404.2	384.4	270.1	134.3	93.8	84.9	68.2	59.2
25°	613.8	517.2	441.8	407.1	392.1	324.5	147.2	96.2	87.2	71.3	60.5
22.5°	650.2	553.9	464.4	409.7	399.3	373.4	175.4	106.8	88.8	74.0	61.7
20°	683.4	587.3	484.9	415.1	403.2	379.3	216.2	116.4	90.2	76.5	62.8
17.5°	714.0	616.0	510.8	431.9	405.2	384.6	252.5	124.9	91.5	78.7	63.8
15°	744.9	640.1	534.9	446.7	406.9	389.1	284.2	132.3	92.6	80.7	64.6
12.5°	771.4	660.7	555.5	459.2	408.3	393.0	311.3	138.7	93.5	82.3	65.4
10°	793.3	677.7	572.5	469.6	409.5	396.2	333.5	143.9	94.3	83.7	65.9
7.5°	810.5	691.0	585.8	477.7	410.4	398.8	350.9	147.9	94.9	84.7	66.4
5°	822.9	700.6	595.3	483.5	411.1	400.6	363.3	150.9	95.4	85.5	66.7
2.5°	830.3	706.4	601.1	487.0	411.5	401.6	370.8	152.6	95.6	85.9	66.9
0°	832.8	708.3	603.0	488.2	411.6	402.0	373.3	153.2	95.7	86.1	67.0
-2.5°	830.3	706.4	601.1	487.0	411.5	401.6	370.8	152.6	95.6	85.9	66.9
-5°	822.9	700.6	595.3	483.5	411.1	400.6	363.3	150.9	95.4	85.5	66.7
-7.5°	810.5	691.0	585.8	477.7	410.4	398.8	350.9	147.9	94.9	84.7	66.4
-10°	793.3	677.7	572.5	469.6	409.5	396.2	333.5	143.9	94.3	83.7	65.9
-12.5°	771.4	660.7	555.5	459.2	408.3	393.0	311.3	138.7	93.5	82.3	65.4
-15°	744.9	640.1	534.9	446.7	406.9	389.1	284.2	132.3	92.6	80.7	64.6
-17.5°	714.0	616.0	510.8	431.9	405.2	384.6	252.5	124.9	91.5	78.7	63.8
-20°	683.4	587.3	484.9	415.1	403.2	379.3	216.2	116.4	90.2	76.5	62.8



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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°	650.2	553.9	464.4	409.7	399.3	373.4	175.4	106.8	88.8	74.0	61.7
-25°	613.8	517.2	441.8	407.1	392.1	324.5	147.2	96.2	87.2	71.3	60.5
-27.5°	571.6	480.9	417.2	404.2	384.4	270.1	134.3	93.8	84.9	68.2	59.2
-30°	525.3	452.2	409.0	399.5	375.9	211.2	120.3	91.7	81.2	66.0	57.8
-32.5°	480.1	421.7	405.4	389.7	324.5	151.9	105.3	89.5	77.2	64.2	56.2
-35°	445.3	408.8	401.0	379.3	251.1	134.3	94.6	87.1	72.9	62.3	54.6
-37.5°	411.3	404.5	389.1	335.3	173.5	115.7	91.8	83.0	68.3	60.3	52.8
-40°	406.5	396.2	376.7	246.9	137.2	96.2	88.8	77.6	65.3	58.1	51.0
-42.5°	400.6	382.4	300.1	154.7	115.0	92.4	85.4	72.0	62.7	55.9	49.1
-45°	385.2	332.3	196.9	128.5	95.0	88.8	78.9	66.6	60.1	53.6	47.0
-47.5°	343.1	218.2	136.8	102.6	91.0	84.1	72.2	63.5	57.3	51.2	44.9
-50°	218.2	139.5	108.0	92.4	86.9	76.5	66.1	60.3	54.5	48.7	42.7
-52.5°	136.8	108.0	92.8	87.8	79.2	68.7	62.5	57.1	51.6	46.0	40.4
-55°	102.6	92.4	87.8	80.0	70.4	63.8	58.8	53.7	48.6	43.3	38.0
-57.5°	91.0	86.9	79.2	70.4	64.2	59.6	55.0	50.3	45.5	40.6	35.6
-60°	84.1	76.5	68.7	63.8	59.6	55.4	51.1	46.7	42.3	37.7	33.1
-62.5°	72.2	66.1	62.5	58.8	55.0	51.1	47.2	43.1	39.0	34.8	30.5
-65°	63.5	60.3	57.1	53.7	50.3	46.7	43.1	39.4	35.6	31.8	27.9
-67.5°	57.3	54.5	51.6	48.6	45.5	42.3	39.0	35.6	32.2	28.8	25.3
-70°	51.2	48.7	46.0	43.3	40.6	37.7	34.8	31.8	28.8	25.7	22.6
-72.5°	44.9	42.7	40.4	38.0	35.6	33.1	30.5	27.9	25.3	22.6	19.8
-75°	38.6	36.7	34.7	32.7	30.6	28.5	26.3	24.0	21.7	19.4	19.1
-77.5°	32.2	30.6	29.0	27.3	25.5	23.8	21.9	20.1	19.1	19.1	19.1
-80°	25.8	24.5	23.2	21.9	20.5	19.1	19.1	19.1	19.1	19.1	19.1
-82.5°	19.3	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	17.2
-85°	19.1	19.1	19.1	19.1	19.1	19.1	17.6	16.1	14.6	13.1	11.5
-87.5°	12.9	12.3	11.6	11.0	10.3	9.5	8.8	8.1	7.3	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	1.7	0.8	0.0
85°	9.9	8.3	6.6	5.0	3.3	1.7	0.0
82.5°	14.8	12.4	9.9	7.5	5.0	2.5	0.0
80°	19.1	16.5	13.2	9.9	6.6	3.3	0.0
77.5°	19.1	19.1	16.5	12.4	8.3	4.1	0.0
75°	19.1	19.1	19.1	14.8	9.9	4.9	0.0
72.5°	19.1	19.1	19.1	17.2	11.5	5.7	0.0
70°	19.4	19.1	19.1	19.1	13.1	6.5	0.0
67.5°	21.7	19.1	19.1	19.1	14.6	7.3	0.0
65°	24.0	20.1	19.1	19.1	16.1	8.1	0.0
62.5°	26.3	21.9	19.1	19.1	17.6	8.8	0.0
60°	28.5	23.8	19.1	19.1	19.1	9.5	0.0
57.5°	30.6	25.5	20.5	19.1	19.1	10.3	0.0
55°	32.7	27.3	21.9	19.1	19.1	11.0	0.0
52.5°	34.7	29.0	23.2	19.1	19.1	11.6	0.0
50°	36.7	30.6	24.5	19.1	19.1	12.3	0.0
47.5°	38.6	32.2	25.8	19.3	19.1	12.9	0.0
45°	40.4	33.7	27.0	20.2	19.1	13.5	0.0
42.5°	42.1	35.2	28.1	21.1	19.1	14.1	0.0
40°	43.8	36.5	29.3	21.9	19.1	14.6	0.0
37.5°	45.4	37.9	30.3	22.7	19.1	15.2	0.0
35°	46.9	39.1	31.3	23.5	19.1	15.6	0.0
32.5°	48.3	40.3	32.2	24.2	19.1	16.1	0.0
30°	49.6	41.4	33.1	24.8	19.1	16.5	0.0
27.5°	50.8	42.4	33.9	25.4	19.1	16.9	0.0
25°	52.0	43.3	34.7	26.0	19.1	17.3	0.0
22.5°	53.0	44.2	35.4	26.5	19.1	17.6	0.0
20°	53.9	45.0	36.0	27.0	19.1	17.9	0.0
17.5°	54.7	45.6	36.5	27.4	19.1	18.2	0.0
15°	55.4	46.2	37.0	27.7	19.1	18.4	0.0
12.5°	56.0	46.7	37.4	28.0	19.1	18.6	0.0
10°	56.5	47.2	37.7	28.3	19.1	18.8	0.0
7.5°	56.9	47.5	38.0	28.5	19.1	18.9	0.0
5°	57.2	47.7	38.2	28.6	19.1	19.0	0.0
2.5°	57.3	47.9	38.3	28.7	19.1	19.1	0.0
0°	57.4	47.9	38.3	28.7	19.1	19.1	0.0
-2.5°	57.3	47.9	38.3	28.7	19.1	19.1	0.0
-5°	57.2	47.7	38.2	28.6	19.1	19.0	0.0
-7.5°	56.9	47.5	38.0	28.5	19.1	18.9	0.0
-10°	56.5	47.2	37.7	28.3	19.1	18.8	0.0
-12.5°	56.0	46.7	37.4	28.0	19.1	18.6	0.0
-15°	55.4	46.2	37.0	27.7	19.1	18.4	0.0
-17.5°	54.7	45.6	36.5	27.4	19.1	18.2	0.0
-20°	53.9	45.0	36.0	27.0	19.1	17.9	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	53.0	44.2	35.4	26.5	19.1	17.6	0.0
-25°	52.0	43.3	34.7	26.0	19.1	17.3	0.0
-27.5°	50.8	42.4	33.9	25.4	19.1	16.9	0.0
-30°	49.6	41.4	33.1	24.8	19.1	16.5	0.0
-32.5°	48.3	40.3	32.2	24.2	19.1	16.1	0.0
-35°	46.9	39.1	31.3	23.5	19.1	15.6	0.0
-37.5°	45.4	37.9	30.3	22.7	19.1	15.2	0.0
-40°	43.8	36.5	29.3	21.9	19.1	14.6	0.0
-42.5°	42.1	35.2	28.1	21.1	19.1	14.1	0.0
-45°	40.4	33.7	27.0	20.2	19.1	13.5	0.0
-47.5°	38.6	32.2	25.8	19.3	19.1	12.9	0.0
-50°	36.7	30.6	24.5	19.1	19.1	12.3	0.0
-52.5°	34.7	29.0	23.2	19.1	19.1	11.6	0.0
-55°	32.7	27.3	21.9	19.1	19.1	11.0	0.0
-57.5°	30.6	25.5	20.5	19.1	19.1	10.3	0.0
-60°	28.5	23.8	19.1	19.1	19.1	9.5	0.0
-62.5°	26.3	21.9	19.1	19.1	17.6	8.8	0.0
-65°	24.0	20.1	19.1	19.1	16.1	8.1	0.0
-67.5°	21.7	19.1	19.1	19.1	14.6	7.3	0.0
-70°	19.4	19.1	19.1	19.1	13.1	6.5	0.0
-72.5°	19.1	19.1	19.1	17.2	11.5	5.7	0.0
-75°	19.1	19.1	19.1	14.8	9.9	4.9	0.0
-77.5°	19.1	19.1	16.5	12.4	8.3	4.1	0.0
-80°	19.1	16.5	13.2	9.9	6.6	3.3	0.0
-82.5°	14.8	12.4	9.9	7.5	5.0	2.5	0.0
-85°	9.9	8.3	6.6	5.0	3.3	1.7	0.0
-87.5°	4.9	4.1	3.3	2.5	1.7	0.8	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)