

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: P699991 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-57-70-3R-S**

Issue Date: 8/10/2023

Test Information

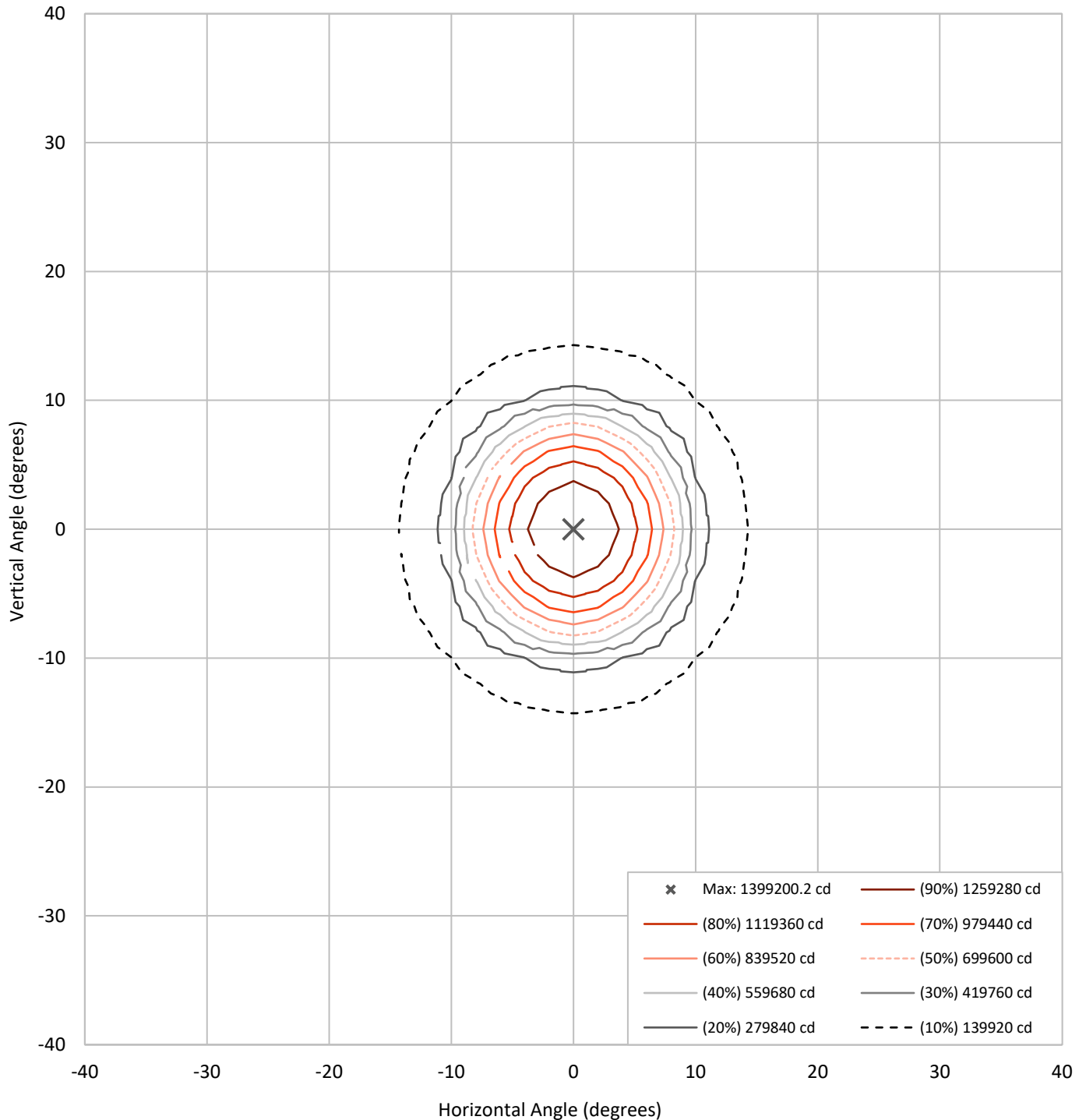
Test Method: LM-79-08
Report Number: P699991 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-50)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200R-57-70-3R-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 5700K, 70 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:	177664.1 lumens	Max Intensity:	1399200.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	137.9 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:	64966.2 lumens	Field Lumens:	105609.7 lumens
Beam Efficiency:	36.6%	Field Efficiency:	59.4%
Input Watts (W):	1288.4		
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





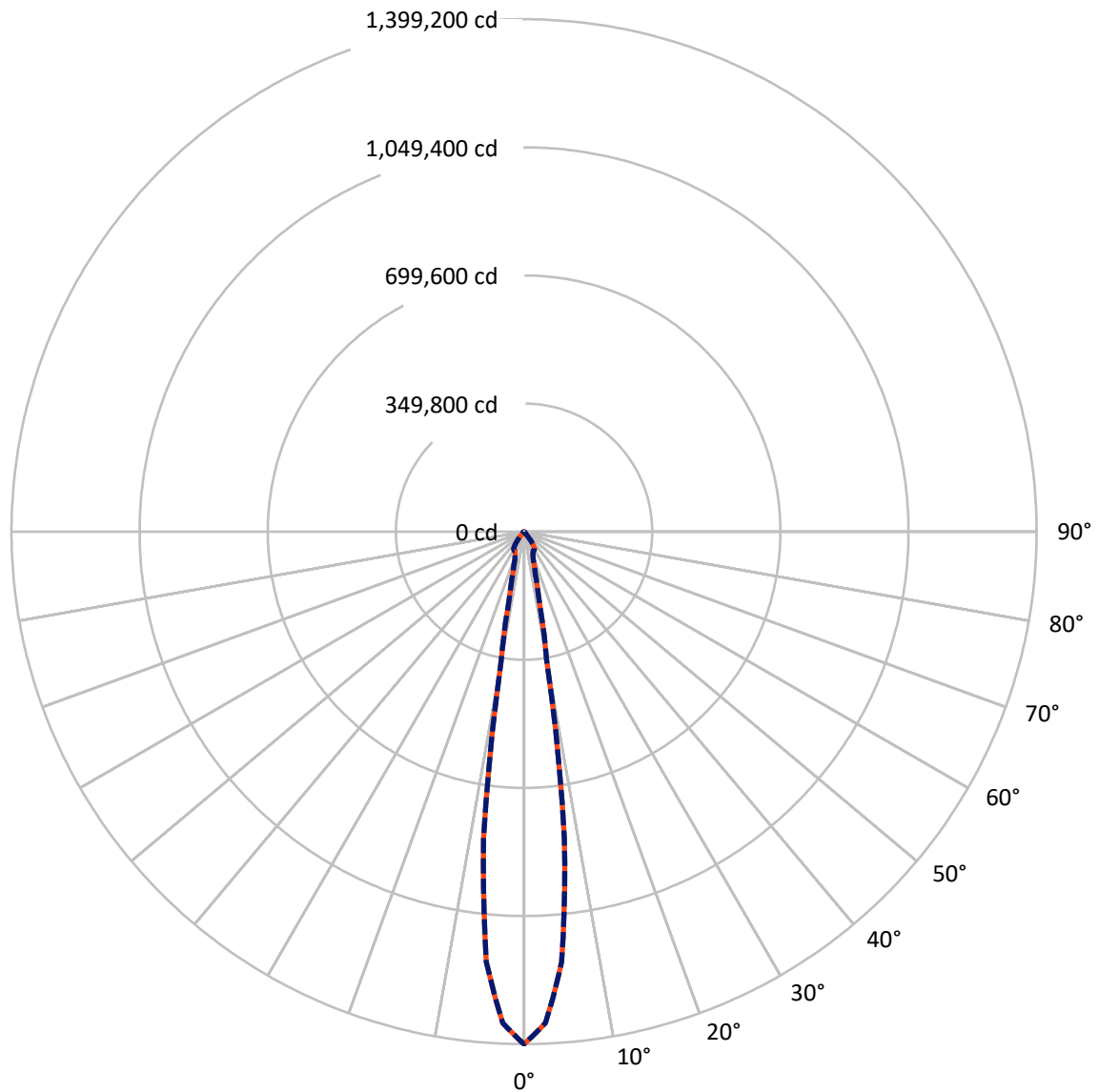
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Lumen Table

90	0.1	0.9		2.2		3.5		4.1		3.5		2.2		0.9		0.1
80	0.1	0.9		2.2		3.5		4.1		3.5		2.2		0.9		0.1
70	0.4	0.4	0.8	1.5	2.3	3.3	4.3	4.8	4.8	4.3	3.3	2.3	1.5	0.8	0.4	0.4
60		0.6	1.4	3.0	5.9	10.9	16.2	19.2	19.2	16.2	10.9	5.9	3.0	1.4	0.6	
50	0.7	0.9	2.5	6.8	16.8	27.4	56.2	93.5	93.5	56.2	27.4	16.8	6.8	2.5	0.9	0.7
40		1.2	4.2	14.6	36.2	231.6	739.3	1103.0	1103.0	739.3	231.6	36.2	14.6	4.2	1.2	
30	0.9	1.6	7.1	21.5	211.7	1078.5	1634.3	1813.1	1813.1	1634.3	1078.5	211.7	21.5	7.1	1.6	0.9
20		1.9	9.9	42.1	636.5	1534.5	2092.7	3770.0	3770.0	2092.7	1534.5	636.5	42.1	9.9	1.9	
10	1.0	2.1	11.3	68.7	918.6	1651.4	3670.6	22817.8	22817.8	3670.6	1651.4	918.6	68.7	11.3	2.1	1.0
0		2.1	11.3	68.7	918.6	1651.4	3670.6	22817.8	22817.8	3670.6	1651.4	918.6	68.7	11.3	2.1	
-10	0.9	1.9	9.9	42.1	636.5	1534.5	2092.7	3770.0	3770.0	2092.7	1534.5	636.5	42.1	9.9	1.9	0.9
-20		1.6	7.1	21.5	211.7	1078.5	1634.3	1813.1	1813.1	1634.3	1078.5	211.7	21.5	7.1	1.6	
-30	0.7	1.2	4.2	14.6	36.2	231.6	739.3	1103.0	1103.0	739.3	231.6	36.2	14.6	4.2	1.2	0.7
-40		0.9	2.5	6.8	16.8	27.4	56.2	93.5	93.5	56.2	27.4	16.8	6.8	2.5	0.9	
-50	0.4	0.6	1.4	3.0	5.9	10.9	16.2	19.2	19.2	16.2	10.9	5.9	3.0	1.4	0.6	0.4
-60		0.4	0.8	1.5	2.3	3.3	4.3	4.8	4.8	4.3	3.3	2.3	1.5	0.8	0.4	
-70	0.1	0.9		2.2		3.5		4.1		3.5		2.2		0.9		0.1
-80		0.9		2.2		3.5		4.1		3.5		2.2		0.9		
-90	0.1	0.9		2.2		3.5		4.1		3.5		2.2		0.9		0.1

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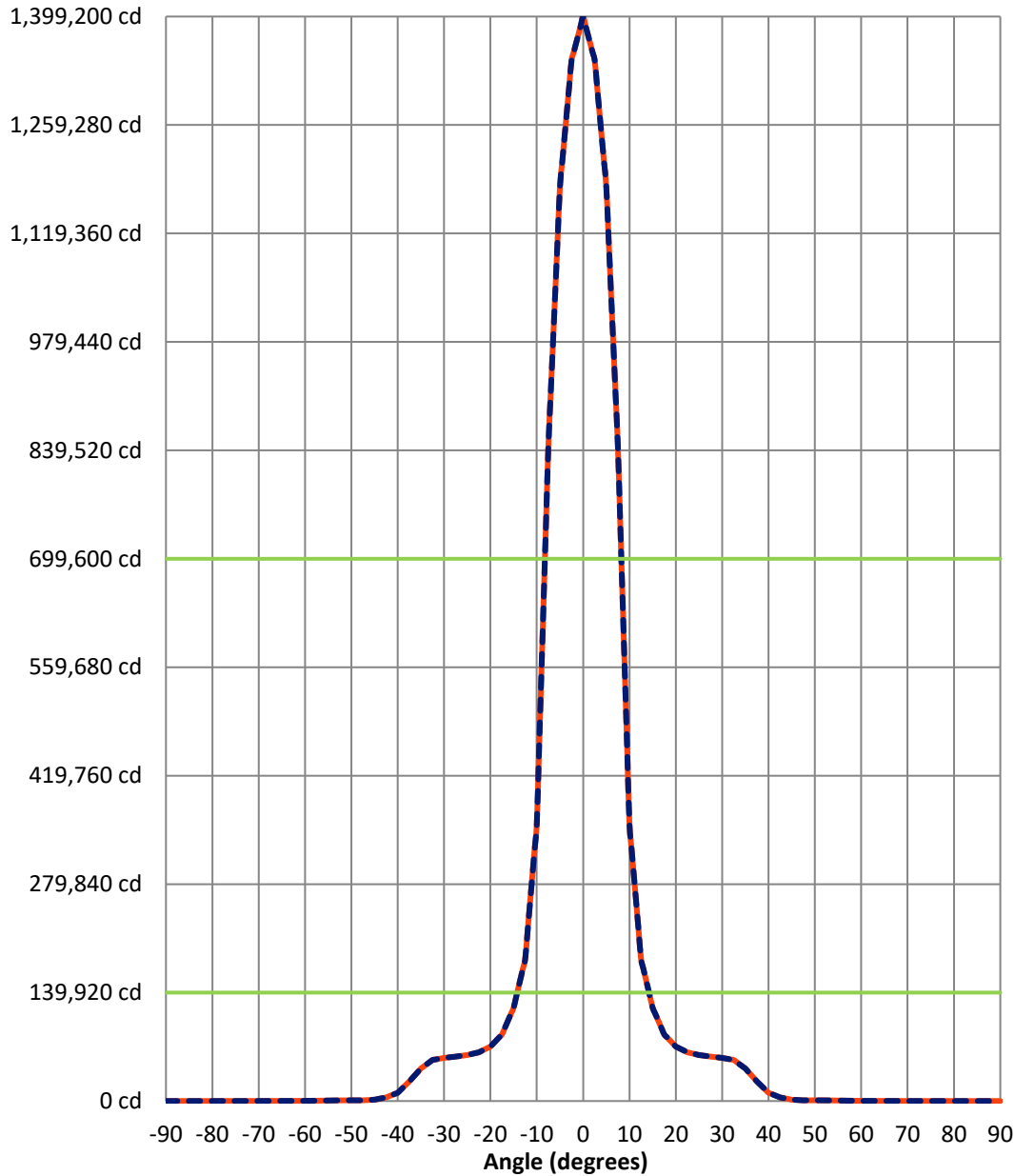
Luminous Intensity Polar Plot



— 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: 64966.2
 Efficiency: 36.6%

Field:
 H Angle: 28.4°
 V Angle: 28.4°
 Lumens: 105609.7
 Efficiency: 59.4%

Spill:
 Lumens: 72054.5
 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	0.9	1.3	1.8	2.2	2.6	3.0	3.5	3.9	4.3
85°	0.0	0.9	1.8	2.6	3.5	4.4	5.2	6.1	6.9	7.7	8.5
82.5°	0.0	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10.1	10.1	10.1
80°	0.0	1.8	3.5	5.2	7.0	8.7	10.1	10.1	10.1	10.1	10.1
77.5°	0.0	2.2	4.4	6.5	8.7	10.1	10.1	10.1	10.1	10.1	11.1
75°	0.0	2.6	5.2	7.8	10.1	10.1	10.1	10.1	10.4	12.9	15.3
72.5°	0.0	3.0	6.1	9.1	10.1	10.1	10.1	10.9	13.8	16.7	19.5
70°	0.0	3.5	6.9	10.1	10.1	10.1	10.4	13.8	17.1	20.4	23.6
67.5°	0.0	3.9	7.7	10.1	10.1	10.1	12.9	16.7	20.4	24.0	27.6
65°	0.0	4.3	8.5	10.1	10.1	11.1	15.3	19.5	23.6	27.6	31.6
62.5°	0.0	4.7	9.3	10.1	10.1	13.1	17.7	22.2	26.7	31.1	35.5
60°	0.0	5.0	10.1	10.1	10.1	15.0	20.0	24.9	29.8	34.6	39.3
57.5°	0.0	5.4	10.1	10.1	11.5	16.9	22.3	27.6	32.8	37.9	43.0
55°	0.0	5.8	10.1	10.1	13.0	18.8	24.5	30.1	35.7	41.2	46.7
52.5°	0.0	6.1	10.1	10.1	14.5	20.6	26.6	32.6	38.6	44.5	50.3
50°	0.0	6.5	10.1	10.1	15.8	22.3	28.7	35.0	41.3	47.6	56.9
47.5°	0.0	6.8	10.1	10.3	17.2	24.0	30.7	37.4	44.0	50.6	63.5
45°	0.0	7.1	10.1	11.3	18.5	25.6	32.6	39.6	46.6	56.4	70.0
42.5°	0.0	7.4	10.1	12.2	19.7	27.1	34.4	41.8	49.1	61.9	73.6
40°	0.0	7.7	10.1	13.1	20.9	28.6	36.2	43.8	52.2	67.2	76.6
37.5°	0.0	8.0	10.1	14.0	22.0	29.9	37.9	45.8	56.7	71.6	79.4
35°	0.0	8.3	10.1	14.7	23.0	31.3	39.5	47.7	61.0	74.0	84.2
32.5°	0.0	8.5	10.1	15.5	24.0	32.5	40.9	49.4	65.0	76.3	91.8
30°	0.0	8.7	10.1	16.2	24.9	33.6	42.3	51.5	68.7	78.5	99.0
27.5°	0.0	9.0	10.1	16.8	25.8	34.7	43.7	54.5	71.6	80.5	105.6
25°	0.0	9.2	10.1	17.4	26.6	35.7	44.9	57.3	73.2	84.7	111.9
22.5°	0.0	9.3	10.1	18.0	27.3	36.6	45.9	59.8	74.7	89.7	121.3
20°	0.0	9.5	10.1	18.4	27.9	37.4	46.9	62.1	76.0	94.2	129.7
17.5°	0.0	9.6	10.1	18.9	28.5	38.1	47.8	64.2	77.2	98.2	137.2
15°	0.0	9.8	10.1	19.3	29.0	38.8	48.6	65.9	78.2	101.7	143.8
12.5°	0.0	9.9	10.1	19.6	29.4	39.3	49.2	67.4	79.1	104.7	149.4
10°	0.0	9.9	10.1	19.8	29.8	39.7	49.7	68.7	79.8	107.1	154.0
7.5°	0.0	10.0	10.1	20.0	30.1	40.1	50.2	69.7	80.4	109.0	157.6
5°	0.0	10.1	10.1	20.2	30.2	40.3	50.5	70.3	80.8	110.4	160.1
2.5°	0.0	10.1	10.1	20.3	30.4	40.5	50.6	70.8	81.0	111.2	161.7
0°	0.0	10.1	10.1	20.3	30.4	40.5	50.7	70.9	81.1	111.5	162.2
-2.5°	0.0	10.1	10.1	20.3	30.4	40.5	50.6	70.8	81.0	111.2	161.7
-5°	0.0	10.1	10.1	20.2	30.2	40.3	50.5	70.3	80.8	110.4	160.1
-7.5°	0.0	10.0	10.1	20.0	30.1	40.1	50.2	69.7	80.4	109.0	157.6
-10°	0.0	9.9	10.1	19.8	29.8	39.7	49.7	68.7	79.8	107.1	154.0
-12.5°	0.0	9.9	10.1	19.6	29.4	39.3	49.2	67.4	79.1	104.7	149.4
-15°	0.0	9.8	10.1	19.3	29.0	38.8	48.6	65.9	78.2	101.7	143.8
-17.5°	0.0	9.6	10.1	18.9	28.5	38.1	47.8	64.2	77.2	98.2	137.2
-20°	0.0	9.5	10.1	18.4	27.9	37.4	46.9	62.1	76.0	94.2	129.7



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 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3R-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	9.3	10.1	18.0	27.3	36.6	45.9	59.8	74.7	89.7	121.3
-25°	0.0	9.2	10.1	17.4	26.6	35.7	44.9	57.3	73.2	84.7	111.9
-27.5°	0.0	9.0	10.1	16.8	25.8	34.7	43.7	54.5	71.6	80.5	105.6
-30°	0.0	8.7	10.1	16.2	24.9	33.6	42.3	51.5	68.7	78.5	99.0
-32.5°	0.0	8.5	10.1	15.5	24.0	32.5	40.9	49.4	65.0	76.3	91.8
-35°	0.0	8.3	10.1	14.7	23.0	31.3	39.5	47.7	61.0	74.0	84.2
-37.5°	0.0	8.0	10.1	14.0	22.0	29.9	37.9	45.8	56.7	71.6	79.4
-40°	0.0	7.7	10.1	13.1	20.9	28.6	36.2	43.8	52.2	67.2	76.6
-42.5°	0.0	7.4	10.1	12.2	19.7	27.1	34.4	41.8	49.1	61.9	73.6
-45°	0.0	7.1	10.1	11.3	18.5	25.6	32.6	39.6	46.6	56.4	70.0
-47.5°	0.0	6.8	10.1	10.3	17.2	24.0	30.7	37.4	44.0	50.6	63.5
-50°	0.0	6.5	10.1	10.1	15.8	22.3	28.7	35.0	41.3	47.6	56.9
-52.5°	0.0	6.1	10.1	10.1	14.5	20.6	26.6	32.6	38.6	44.5	50.3
-55°	0.0	5.8	10.1	10.1	13.0	18.8	24.5	30.1	35.7	41.2	46.7
-57.5°	0.0	5.4	10.1	10.1	11.5	16.9	22.3	27.6	32.8	37.9	43.0
-60°	0.0	5.0	10.1	10.1	10.1	15.0	20.0	24.9	29.8	34.6	39.3
-62.5°	0.0	4.7	9.3	10.1	10.1	13.1	17.7	22.2	26.7	31.1	35.5
-65°	0.0	4.3	8.5	10.1	10.1	11.1	15.3	19.5	23.6	27.6	31.6
-67.5°	0.0	3.9	7.7	10.1	10.1	10.1	12.9	16.7	20.4	24.0	27.6
-70°	0.0	3.5	6.9	10.1	10.1	10.1	10.4	13.8	17.1	20.4	23.6
-72.5°	0.0	3.0	6.1	9.1	10.1	10.1	10.1	10.9	13.8	16.7	19.5
-75°	0.0	2.6	5.2	7.8	10.1	10.1	10.1	10.1	10.4	12.9	15.3
-77.5°	0.0	2.2	4.4	6.5	8.7	10.1	10.1	10.1	10.1	10.1	11.1
-80°	0.0	1.8	3.5	5.2	7.0	8.7	10.1	10.1	10.1	10.1	10.1
-82.5°	0.0	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10.1	10.1	10.1
-85°	0.0	0.9	1.8	2.6	3.5	4.4	5.2	6.1	6.9	7.7	8.5
-87.5°	0.0	0.4	0.9	1.3	1.8	2.2	2.6	3.0	3.5	3.9	4.3
-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: P699991 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3R-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°	4.7	5.0	5.4	5.8	6.1	6.5	6.8	7.1	7.4	7.7	8.0
85°	9.3	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
82.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.3	11.3	12.2	13.1	14.0
80°	10.1	10.1	11.5	13.0	14.5	15.8	17.2	18.5	19.7	20.9	22.0
77.5°	13.1	15.0	16.9	18.8	20.6	22.3	24.0	25.6	27.1	28.6	29.9
75°	17.7	20.0	22.3	24.5	26.6	28.7	30.7	32.6	34.4	36.2	37.9
72.5°	22.2	24.9	27.6	30.1	32.6	35.0	37.4	39.6	41.8	43.8	45.8
70°	26.7	29.8	32.8	35.7	38.6	41.3	44.0	46.6	49.1	52.2	56.7
67.5°	31.1	34.6	37.9	41.2	44.5	47.6	50.6	56.4	61.9	67.2	71.6
65°	35.5	39.3	43.0	46.7	50.3	56.9	63.5	70.0	73.6	76.6	79.4
62.5°	39.7	44.0	48.1	53.6	61.4	69.0	73.7	77.3	80.7	89.8	99.2
60°	44.0	48.6	55.4	64.2	71.8	76.0	80.0	89.7	100.9	111.9	129.2
57.5°	48.1	55.4	65.1	72.7	77.4	83.6	96.7	109.4	128.5	148.1	165.0
55°	53.6	64.2	72.7	77.9	86.4	101.0	117.6	140.4	162.4	175.1	187.3
52.5°	61.4	71.8	77.4	86.4	102.4	122.4	147.7	168.2	182.5	202.2	237.3
50°	69.0	76.0	83.6	101.0	122.4	150.1	171.2	186.9	218.2	257.4	316.5
47.5°	73.7	80.0	96.7	117.6	147.7	171.2	188.4	226.2	269.5	349.3	430.0
45°	77.3	89.7	109.4	140.4	168.2	186.9	226.2	273.6	365.8	463.6	587.2
42.5°	80.7	100.9	128.5	162.4	182.5	218.2	269.5	365.8	475.7	611.8	733.6
40°	89.8	111.9	148.1	175.1	202.2	257.4	349.3	463.6	611.8	744.5	865.6
37.5°	99.2	129.2	165.0	187.3	237.3	316.5	430.0	587.2	733.6	865.6	920.5
35°	108.2	145.5	175.7	209.6	270.7	388.6	538.5	701.0	843.4	915.9	948.4
32.5°	120.0	161.0	185.9	239.0	331.5	466.4	644.2	799.5	902.4	950.7	936.5
30°	133.2	170.2	200.1	266.6	391.5	559.4	734.5	880.1	942.3	940.0	1238.2
27.5°	145.5	178.3	223.8	311.3	452.8	646.6	816.2	915.2	945.9	1035.8	1690.3
25°	156.9	185.9	245.8	359.3	527.7	720.1	879.9	948.0	937.0	1432.7	2920.7
22.5°	165.3	193.0	265.9	403.3	596.5	784.9	908.0	946.3	1080.2	1842.9	4276.8
20°	170.9	209.6	294.7	446.5	658.9	843.9	933.5	939.4	1393.2	3000.0	6386.3
17.5°	175.9	224.4	327.2	497.7	708.8	881.6	951.8	933.2	1674.9	4043.8	8699.8
15°	180.3	237.3	355.6	542.5	751.3	900.2	946.7	1129.7	2263.0	5245.1	10835.7
12.5°	184.0	248.3	379.9	580.7	787.7	916.0	942.4	1326.5	2995.6	6877.0	15146.2
10°	187.1	257.4	399.9	612.3	817.7	929.1	938.8	1489.5	3603.2	8232.9	18735.9
7.5°	189.5	264.4	415.6	637.0	841.2	939.4	936.0	1617.5	4081.1	9301.0	21568.7
5°	191.2	269.5	426.8	654.7	858.1	946.8	934.0	1709.6	4425.3	10071.3	23615.0
2.5°	192.3	272.6	433.5	665.3	868.2	951.2	932.8	1765.1	4633.1	10536.6	24852.1
0°	192.6	273.6	435.8	668.9	871.6	952.7	932.4	1783.7	4702.5	10692.2	25266.1
-2.5°	192.3	272.6	433.5	665.3	868.2	951.2	932.8	1765.1	4633.1	10536.6	24852.1
-5°	191.2	269.5	426.8	654.7	858.1	946.8	934.0	1709.6	4425.3	10071.3	23615.0
-7.5°	189.5	264.4	415.6	637.0	841.2	939.4	936.0	1617.5	4081.1	9301.0	21568.7
-10°	187.1	257.4	399.9	612.3	817.7	929.1	938.8	1489.5	3603.2	8232.9	18735.9
-12.5°	184.0	248.3	379.9	580.7	787.7	916.0	942.4	1326.5	2995.6	6877.0	15146.2
-15°	180.3	237.3	355.6	542.5	751.3	900.2	946.7	1129.7	2263.0	5245.1	10835.7
-17.5°	175.9	224.4	327.2	497.7	708.8	881.6	951.8	933.2	1674.9	4043.8	8699.8
-20°	170.9	209.6	294.7	446.5	658.9	843.9	933.5	939.4	1393.2	3000.0	6386.3



REPORT NUMBER: P699991 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3R-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	165.3	193.0	265.9	403.3	596.5	784.9	908.0	946.3	1080.2	1842.9	4276.8
-25°	156.9	185.9	245.8	359.3	527.7	720.1	879.9	948.0	937.0	1432.7	2920.7
-27.5°	145.5	178.3	223.8	311.3	452.8	646.6	816.2	915.2	945.9	1035.8	1690.3
-30°	133.2	170.2	200.1	266.6	391.5	559.4	734.5	880.1	942.3	940.0	1238.2
-32.5°	120.0	161.0	185.9	239.0	331.5	466.4	644.2	799.5	902.4	950.7	936.5
-35°	108.2	145.5	175.7	209.6	270.7	388.6	538.5	701.0	843.4	915.9	948.4
-37.5°	99.2	129.2	165.0	187.3	237.3	316.5	430.0	587.2	733.6	865.6	920.5
-40°	89.8	111.9	148.1	175.1	202.2	257.4	349.3	463.6	611.8	744.5	865.6
-42.5°	80.7	100.9	128.5	162.4	182.5	218.2	269.5	365.8	475.7	611.8	733.6
-45°	77.3	89.7	109.4	140.4	168.2	186.9	226.2	273.6	365.8	463.6	587.2
-47.5°	73.7	80.0	96.7	117.6	147.7	171.2	188.4	226.2	269.5	349.3	430.0
-50°	69.0	76.0	83.6	101.0	122.4	150.1	171.2	186.9	218.2	257.4	316.5
-52.5°	61.4	71.8	77.4	86.4	102.4	122.4	147.7	168.2	182.5	202.2	237.3
-55°	53.6	64.2	72.7	77.9	86.4	101.0	117.6	140.4	162.4	175.1	187.3
-57.5°	48.1	55.4	65.1	72.7	77.4	83.6	96.7	109.4	128.5	148.1	165.0
-60°	44.0	48.6	55.4	64.2	71.8	76.0	80.0	89.7	100.9	111.9	129.2
-62.5°	39.7	44.0	48.1	53.6	61.4	69.0	73.7	77.3	80.7	89.8	99.2
-65°	35.5	39.3	43.0	46.7	50.3	56.9	63.5	70.0	73.6	76.6	79.4
-67.5°	31.1	34.6	37.9	41.2	44.5	47.6	50.6	56.4	61.9	67.2	71.6
-70°	26.7	29.8	32.8	35.7	38.6	41.3	44.0	46.6	49.1	52.2	56.7
-72.5°	22.2	24.9	27.6	30.1	32.6	35.0	37.4	39.6	41.8	43.8	45.8
-75°	17.7	20.0	22.3	24.5	26.6	28.7	30.7	32.6	34.4	36.2	37.9
-77.5°	13.1	15.0	16.9	18.8	20.6	22.3	24.0	25.6	27.1	28.6	29.9
-80°	10.1	10.1	11.5	13.0	14.5	15.8	17.2	18.5	19.7	20.9	22.0
-82.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.3	11.3	12.2	13.1	14.0
-85°	9.3	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
-87.5°	4.7	5.0	5.4	5.8	6.1	6.5	6.8	7.1	7.4	7.7	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: P699991 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3R-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°	8.3	8.5	8.7	9.0	9.2	9.3	9.5	9.6	9.8	9.9	9.9
85°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
82.5°	14.7	15.5	16.2	16.8	17.4	18.0	18.4	18.9	19.3	19.6	19.8
80°	23.0	24.0	24.9	25.8	26.6	27.3	27.9	28.5	29.0	29.4	29.8
77.5°	31.3	32.5	33.6	34.7	35.7	36.6	37.4	38.1	38.8	39.3	39.7
75°	39.5	40.9	42.3	43.7	44.9	45.9	46.9	47.8	48.6	49.2	49.7
72.5°	47.7	49.4	51.5	54.5	57.3	59.8	62.1	64.2	65.9	67.4	68.7
70°	61.0	65.0	68.7	71.6	73.2	74.7	76.0	77.2	78.2	79.1	79.8
67.5°	74.0	76.3	78.5	80.5	84.7	89.7	94.2	98.2	101.7	104.7	107.1
65°	84.2	91.8	99.0	105.6	111.9	121.3	129.7	137.2	143.8	149.4	154.0
62.5°	108.2	120.0	133.2	145.5	156.9	165.3	170.9	175.9	180.3	184.0	187.1
60°	145.5	161.0	170.2	178.3	185.9	193.0	209.6	224.4	237.3	248.3	257.4
57.5°	175.7	185.9	200.1	223.8	245.8	265.9	294.7	327.2	355.6	379.9	399.9
55°	209.6	239.0	266.6	311.3	359.3	403.3	446.5	497.7	542.5	580.7	612.3
52.5°	270.7	331.5	391.5	452.8	527.7	596.5	658.9	708.8	751.3	787.7	817.7
50°	388.6	466.4	559.4	646.6	720.1	784.9	843.9	881.6	900.2	916.0	929.1
47.5°	538.5	644.2	734.5	816.2	879.9	908.0	933.5	951.8	946.7	942.4	938.8
45°	701.0	799.5	880.1	915.2	948.0	946.3	939.4	933.2	1129.7	1326.5	1489.5
42.5°	843.4	902.4	942.3	945.9	937.0	1080.2	1393.2	1674.9	2263.0	2995.6	3603.2
40°	915.9	950.7	940.0	1035.8	1432.7	1842.9	3000.0	4043.8	5245.1	6877.0	8232.9
37.5°	948.4	936.5	1238.2	1690.3	2920.7	4276.8	6386.3	8699.8	10835.7	15146.2	18735.9
35°	935.3	1340.6	2001.6	3653.9	5748.5	8734.1	12625.0	18703.0	24109.2	29301.7	33776.9
32.5°	1340.6	2182.4	4025.1	6920.7	10335.6	17609.9	24814.1	32260.3	38966.0	43831.1	47061.0
30°	2001.6	4025.1	7314.9	11800.9	20661.3	29536.3	38402.4	44968.6	49779.9	53226.7	54085.9
27.5°	3653.9	6920.7	11800.9	21688.9	31969.7	42097.5	48401.3	53279.8	54550.7	55665.5	56257.3
25°	5748.5	10335.6	20661.3	31969.7	42939.3	50150.9	53942.6	55466.2	56407.6	57171.1	57915.5
22.5°	8734.1	17609.9	29536.3	42097.5	50150.9	54166.8	55835.9	56866.8	57901.1	58909.2	60058.3
20°	12625.0	24814.1	38402.4	48401.3	53942.6	55835.9	57022.5	58295.8	59640.4	61556.0	63573.6
17.5°	18703.0	32260.3	44968.6	53279.8	55466.2	56866.8	58295.8	60006.5	62332.5	66180.4	70084.3
15°	24109.2	38966.0	49779.9	54550.7	56407.6	57901.1	59640.4	62332.5	67074.5	73860.1	83051.7
12.5°	29301.7	43831.1	53226.7	55665.5	57171.1	58909.2	61556.0	66180.4	73860.1	85284.1	107170.7
10°	33776.9	47061.0	54085.9	56257.3	57915.5	60058.3	63573.6	70084.3	83051.7	107170.7	139032.6
7.5°	37316.7	49622.9	54769.8	56728.8	58543.6	61265.9	66434.5	76613.6	96521.1	129825.8	183867.0
5°	39878.2	51480.8	55267.1	57072.9	59004.0	62156.1	68560.0	81707.4	109436.7	155315.6	244789.5
2.5°	41428.7	52607.2	55569.2	57282.4	59285.2	62702.2	69871.6	84876.5	117568.8	175134.8	325715.1
0°	41947.9	52984.7	55670.5	57352.8	59379.8	62886.4	70315.2	85953.2	120350.7	183115.6	357140.2
-2.5°	41428.7	52607.2	55569.2	57282.4	59285.2	62702.2	69871.6	84876.5	117568.8	175134.8	325715.1
-5°	39878.2	51480.8	55267.1	57072.9	59004.0	62156.1	68560.0	81707.4	109436.7	155315.6	244789.5
-7.5°	37316.7	49622.9	54769.8	56728.8	58543.6	61265.9	66434.5	76613.6	96521.1	129825.8	183867.0
-10°	33776.9	47061.0	54085.9	56257.3	57915.5	60058.3	63573.6	70084.3	83051.7	107170.7	139032.6
-12.5°	29301.7	43831.1	53226.7	55665.5	57171.1	58909.2	61556.0	66180.4	73860.1	85284.1	107170.7
-15°	24109.2	38966.0	49779.9	54550.7	56407.6	57901.1	59640.4	62332.5	67074.5	73860.1	83051.7
-17.5°	18703.0	32260.3	44968.6	53279.8	55466.2	56866.8	58295.8	60006.5	62332.5	66180.4	70084.3
-20°	12625.0	24814.1	38402.4	48401.3	53942.6	55835.9	57022.5	58295.8	59640.4	61556.0	63573.6



REPORT NUMBER: P699991 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3R-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	8734.1	17609.9	29536.3	42097.5	50150.9	54166.8	55835.9	56866.8	57901.1	58909.2	60058.3
-25°	5748.5	10335.6	20661.3	31969.7	42939.3	50150.9	53942.6	55466.2	56407.6	57171.1	57915.5
-27.5°	3653.9	6920.7	11800.9	21688.9	31969.7	42097.5	48401.3	53279.8	54550.7	55665.5	56257.3
-30°	2001.6	4025.1	7314.9	11800.9	20661.3	29536.3	38402.4	44968.6	49779.9	53226.7	54085.9
-32.5°	1340.6	2182.4	4025.1	6920.7	10335.6	17609.9	24814.1	32260.3	38966.0	43831.1	47061.0
-35°	935.3	1340.6	2001.6	3653.9	5748.5	8734.1	12625.0	18703.0	24109.2	29301.7	33776.9
-37.5°	948.4	936.5	1238.2	1690.3	2920.7	4276.8	6386.3	8699.8	10835.7	15146.2	18735.9
-40°	915.9	950.7	940.0	1035.8	1432.7	1842.9	3000.0	4043.8	5245.1	6877.0	8232.9
-42.5°	843.4	902.4	942.3	945.9	937.0	1080.2	1393.2	1674.9	2263.0	2995.6	3603.2
-45°	701.0	799.5	880.1	915.2	948.0	946.3	939.4	933.2	1129.7	1326.5	1489.5
-47.5°	538.5	644.2	734.5	816.2	879.9	908.0	933.5	951.8	946.7	942.4	938.8
-50°	388.6	466.4	559.4	646.6	720.1	784.9	843.9	881.6	900.2	916.0	929.1
-52.5°	270.7	331.5	391.5	452.8	527.7	596.5	658.9	708.8	751.3	787.7	817.7
-55°	209.6	239.0	266.6	311.3	359.3	403.3	446.5	497.7	542.5	580.7	612.3
-57.5°	175.7	185.9	200.1	223.8	245.8	265.9	294.7	327.2	355.6	379.9	399.9
-60°	145.5	161.0	170.2	178.3	185.9	193.0	209.6	224.4	237.3	248.3	257.4
-62.5°	108.2	120.0	133.2	145.5	156.9	165.3	170.9	175.9	180.3	184.0	187.1
-65°	84.2	91.8	99.0	105.6	111.9	121.3	129.7	137.2	143.8	149.4	154.0
-67.5°	74.0	76.3	78.5	80.5	84.7	89.7	94.2	98.2	101.7	104.7	107.1
-70°	61.0	65.0	68.7	71.6	73.2	74.7	76.0	77.2	78.2	79.1	79.8
-72.5°	47.7	49.4	51.5	54.5	57.3	59.8	62.1	64.2	65.9	67.4	68.7
-75°	39.5	40.9	42.3	43.7	44.9	45.9	46.9	47.8	48.6	49.2	49.7
-77.5°	31.3	32.5	33.6	34.7	35.7	36.6	37.4	38.1	38.8	39.3	39.7
-80°	23.0	24.0	24.9	25.8	26.6	27.3	27.9	28.5	29.0	29.4	29.8
-82.5°	14.7	15.5	16.2	16.8	17.4	18.0	18.4	18.9	19.3	19.6	19.8
-85°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
-87.5°	8.3	8.5	8.7	9.0	9.2	9.3	9.5	9.6	9.8	9.9	9.9
-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: P699991 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3R-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°	10.0	10.1	10.1	10.1	10.1	10.1	10.0	9.9	9.9	9.8	9.6
85°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
82.5°	20.0	20.2	20.3	20.3	20.3	20.2	20.0	19.8	19.6	19.3	18.9
80°	30.1	30.2	30.4	30.4	30.4	30.2	30.1	29.8	29.4	29.0	28.5
77.5°	40.1	40.3	40.5	40.5	40.5	40.3	40.1	39.7	39.3	38.8	38.1
75°	50.2	50.5	50.6	50.7	50.6	50.5	50.2	49.7	49.2	48.6	47.8
72.5°	69.7	70.3	70.8	70.9	70.8	70.3	69.7	68.7	67.4	65.9	64.2
70°	80.4	80.8	81.0	81.1	81.0	80.8	80.4	79.8	79.1	78.2	77.2
67.5°	109.0	110.4	111.2	111.5	111.2	110.4	109.0	107.1	104.7	101.7	98.2
65°	157.6	160.1	161.7	162.2	161.7	160.1	157.6	154.0	149.4	143.8	137.2
62.5°	189.5	191.2	192.3	192.6	192.3	191.2	189.5	187.1	184.0	180.3	175.9
60°	264.4	269.5	272.6	273.6	272.6	269.5	264.4	257.4	248.3	237.3	224.4
57.5°	415.6	426.8	433.5	435.8	433.5	426.8	415.6	399.9	379.9	355.6	327.2
55°	637.0	654.7	665.3	668.9	665.3	654.7	637.0	612.3	580.7	542.5	497.7
52.5°	841.2	858.1	868.2	871.6	868.2	858.1	841.2	817.7	787.7	751.3	708.8
50°	939.4	946.8	951.2	952.7	951.2	946.8	939.4	929.1	916.0	900.2	881.6
47.5°	936.0	934.0	932.8	932.4	932.8	934.0	936.0	938.8	942.4	946.7	951.8
45°	1617.5	1709.6	1765.1	1783.7	1765.1	1709.6	1617.5	1489.5	1326.5	1129.7	933.2
42.5°	4081.1	4425.3	4633.1	4702.5	4633.1	4425.3	4081.1	3603.2	2995.6	2263.0	1674.9
40°	9301.0	10071.3	10536.6	10692.2	10536.6	10071.3	9301.0	8232.9	6877.0	5245.1	4043.8
37.5°	21568.7	23615.0	24852.1	25266.1	24852.1	23615.0	21568.7	18735.9	15146.2	10835.7	8699.8
35°	37316.7	39878.2	41428.7	41947.9	41428.7	39878.2	37316.7	33776.9	29301.7	24109.2	18703.0
32.5°	49622.9	51480.8	52607.2	52984.7	52607.2	51480.8	49622.9	47061.0	43831.1	38966.0	32260.3
30°	54769.8	55267.1	55569.2	55670.5	55569.2	55267.1	54769.8	54085.9	53226.7	49779.9	44968.6
27.5°	56728.8	57072.9	57282.4	57352.8	57282.4	57072.9	56728.8	56257.3	55665.5	54550.7	53279.8
25°	58543.6	59004.0	59285.2	59379.8	59285.2	59004.0	58543.6	57915.5	57171.1	56407.6	55466.2
22.5°	61265.9	62156.1	62702.2	62886.4	62702.2	62156.1	61265.9	60058.3	58909.2	57901.1	56866.8
20°	66434.5	68560.0	69871.6	70315.2	69871.6	68560.0	66434.5	63573.6	61556.0	59640.4	58295.8
17.5°	76613.6	81707.4	84876.5	85953.2	84876.5	81707.4	76613.6	70084.3	66180.4	62332.5	60006.5
15°	96521.1	109436.7	117568.8	120350.7	117568.8	109436.7	96521.1	83051.7	73860.1	67074.5	62332.5
12.5°	129825.8	155315.6	175134.8	183115.6	175134.8	155315.6	129825.8	107170.7	85284.1	73860.1	66180.4
10°	183867.0	244789.5	325715.1	357140.2	325715.1	244789.5	183867.0	139032.6	107170.7	83051.7	70084.3
7.5°	296140.9	529324.9	766420.6	844821.7	766420.6	529324.9	296140.9	183867.0	129825.8	96521.1	76613.6
5°	529324.9	929051.3	#####	#####	#####	929051.3	529324.9	244789.5	155315.6	109436.7	81707.4
2.5°	766420.6	#####	#####	#####	#####	766420.6	325715.1	175134.8	117568.8	84876.5	84876.5
0°	844821.7	#####	#####	#####	#####	844821.7	357140.2	183115.6	120350.7	85953.2	85953.2
-2.5°	766420.6	#####	#####	#####	#####	766420.6	325715.1	175134.8	117568.8	84876.5	84876.5
-5°	529324.9	929051.3	#####	#####	#####	929051.3	529324.9	244789.5	155315.6	109436.7	81707.4
-7.5°	296140.9	529324.9	766420.6	844821.7	766420.6	529324.9	296140.9	183867.0	129825.8	96521.1	76613.6
-10°	183867.0	244789.5	325715.1	357140.2	325715.1	244789.5	183867.0	139032.6	107170.7	83051.7	70084.3
-12.5°	129825.8	155315.6	175134.8	183115.6	175134.8	155315.6	129825.8	107170.7	85284.1	73860.1	66180.4
-15°	96521.1	109436.7	117568.8	120350.7	117568.8	109436.7	96521.1	83051.7	73860.1	67074.5	62332.5
-17.5°	76613.6	81707.4	84876.5	85953.2	84876.5	81707.4	76613.6	70084.3	66180.4	62332.5	60006.5
-20°	66434.5	68560.0	69871.6	70315.2	69871.6	68560.0	66434.5	63573.6	61556.0	59640.4	58295.8



REPORT NUMBER: P699991 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3R-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	61265.9	62156.1	62702.2	62886.4	62702.2	62156.1	61265.9	60058.3	58909.2	57901.1	56866.8
-25°	58543.6	59004.0	59285.2	59379.8	59285.2	59004.0	58543.6	57915.5	57171.1	56407.6	55466.2
-27.5°	56728.8	57072.9	57282.4	57352.8	57282.4	57072.9	56728.8	56257.3	55665.5	54550.7	53279.8
-30°	54769.8	55267.1	55569.2	55670.5	55569.2	55267.1	54769.8	54085.9	53226.7	49779.9	44968.6
-32.5°	49622.9	51480.8	52607.2	52984.7	52607.2	51480.8	49622.9	47061.0	43831.1	38966.0	32260.3
-35°	37316.7	39878.2	41428.7	41947.9	41428.7	39878.2	37316.7	33776.9	29301.7	24109.2	18703.0
-37.5°	21568.7	23615.0	24852.1	25266.1	24852.1	23615.0	21568.7	18735.9	15146.2	10835.7	8699.8
-40°	9301.0	10071.3	10536.6	10692.2	10536.6	10071.3	9301.0	8232.9	6877.0	5245.1	4043.8
-42.5°	4081.1	4425.3	4633.1	4702.5	4633.1	4425.3	4081.1	3603.2	2995.6	2263.0	1674.9
-45°	1617.5	1709.6	1765.1	1783.7	1765.1	1709.6	1617.5	1489.5	1326.5	1129.7	933.2
-47.5°	936.0	934.0	932.8	932.4	932.8	934.0	936.0	938.8	942.4	946.7	951.8
-50°	939.4	946.8	951.2	952.7	951.2	946.8	939.4	929.1	916.0	900.2	881.6
-52.5°	841.2	858.1	868.2	871.6	868.2	858.1	841.2	817.7	787.7	751.3	708.8
-55°	637.0	654.7	665.3	668.9	665.3	654.7	637.0	612.3	580.7	542.5	497.7
-57.5°	415.6	426.8	433.5	435.8	433.5	426.8	415.6	399.9	379.9	355.6	327.2
-60°	264.4	269.5	272.6	273.6	272.6	269.5	264.4	257.4	248.3	237.3	224.4
-62.5°	189.5	191.2	192.3	192.6	192.3	191.2	189.5	187.1	184.0	180.3	175.9
-65°	157.6	160.1	161.7	162.2	161.7	160.1	157.6	154.0	149.4	143.8	137.2
-67.5°	109.0	110.4	111.2	111.5	111.2	110.4	109.0	107.1	104.7	101.7	98.2
-70°	80.4	80.8	81.0	81.1	81.0	80.8	80.4	79.8	79.1	78.2	77.2
-72.5°	69.7	70.3	70.8	70.9	70.8	70.3	69.7	68.7	67.4	65.9	64.2
-75°	50.2	50.5	50.6	50.7	50.6	50.5	50.2	49.7	49.2	48.6	47.8
-77.5°	40.1	40.3	40.5	40.5	40.5	40.3	40.1	39.7	39.3	38.8	38.1
-80°	30.1	30.2	30.4	30.4	30.4	30.2	30.1	29.8	29.4	29.0	28.5
-82.5°	20.0	20.2	20.3	20.3	20.3	20.2	20.0	19.8	19.6	19.3	18.9
-85°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
-87.5°	10.0	10.1	10.1	10.1	10.1	10.1	10.0	9.9	9.9	9.8	9.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	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°	9.5	9.3	9.2	9.0	8.7	8.5	8.3	8.0	7.7	7.4	7.1
85°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
82.5°	18.4	18.0	17.4	16.8	16.2	15.5	14.7	14.0	13.1	12.2	11.3
80°	27.9	27.3	26.6	25.8	24.9	24.0	23.0	22.0	20.9	19.7	18.5
77.5°	37.4	36.6	35.7	34.7	33.6	32.5	31.3	29.9	28.6	27.1	25.6
75°	46.9	45.9	44.9	43.7	42.3	40.9	39.5	37.9	36.2	34.4	32.6
72.5°	62.1	59.8	57.3	54.5	51.5	49.4	47.7	45.8	43.8	41.8	39.6
70°	76.0	74.7	73.2	71.6	68.7	65.0	61.0	56.7	52.2	49.1	46.6
67.5°	94.2	89.7	84.7	80.5	78.5	76.3	74.0	71.6	67.2	61.9	56.4
65°	129.7	121.3	111.9	105.6	99.0	91.8	84.2	79.4	76.6	73.6	70.0
62.5°	170.9	165.3	156.9	145.5	133.2	120.0	108.2	99.2	89.8	80.7	77.3
60°	209.6	193.0	185.9	178.3	170.2	161.0	145.5	129.2	111.9	100.9	89.7
57.5°	294.7	265.9	245.8	223.8	200.1	185.9	175.7	165.0	148.1	128.5	109.4
55°	446.5	403.3	359.3	311.3	266.6	239.0	209.6	187.3	175.1	162.4	140.4
52.5°	658.9	596.5	527.7	452.8	391.5	331.5	270.7	237.3	202.2	182.5	168.2
50°	843.9	784.9	720.1	646.6	559.4	466.4	388.6	316.5	257.4	218.2	186.9
47.5°	933.5	908.0	879.9	816.2	734.5	644.2	538.5	430.0	349.3	269.5	226.2
45°	939.4	946.3	948.0	915.2	880.1	799.5	701.0	587.2	463.6	365.8	273.6
42.5°	1393.2	1080.2	937.0	945.9	942.3	902.4	843.4	733.6	611.8	475.7	365.8
40°	3000.0	1842.9	1432.7	1035.8	940.0	950.7	915.9	865.6	744.5	611.8	463.6
37.5°	6386.3	4276.8	2920.7	1690.3	1238.2	936.5	948.4	920.5	865.6	733.6	587.2
35°	12625.0	8734.1	5748.5	3653.9	2001.6	1340.6	935.3	948.4	915.9	843.4	701.0
32.5°	24814.1	17609.9	10335.6	6920.7	4025.1	2182.4	1340.6	936.5	950.7	902.4	799.5
30°	38402.4	29536.3	20661.3	11800.9	7314.9	4025.1	2001.6	1238.2	940.0	942.3	880.1
27.5°	48401.3	42097.5	31969.7	21688.9	11800.9	6920.7	3653.9	1690.3	1035.8	945.9	915.2
25°	53942.6	50150.9	42939.3	31969.7	20661.3	10335.6	5748.5	2920.7	1432.7	937.0	948.0
22.5°	55835.9	54166.8	50150.9	42097.5	29536.3	17609.9	8734.1	4276.8	1842.9	1080.2	946.3
20°	57022.5	55835.9	53942.6	48401.3	38402.4	24814.1	12625.0	6386.3	3000.0	1393.2	939.4
17.5°	58295.8	56866.8	55466.2	53279.8	44968.6	32260.3	18703.0	8699.8	4043.8	1674.9	933.2
15°	59640.4	57901.1	56407.6	54550.7	49779.9	38966.0	24109.2	10835.7	5245.1	2263.0	1129.7
12.5°	61556.0	58909.2	57171.1	55665.5	53226.7	43831.1	29301.7	15146.2	6877.0	2995.6	1326.5
10°	63573.6	60058.3	57915.5	56257.3	54085.9	47061.0	33776.9	18735.9	8232.9	3603.2	1489.5
7.5°	66434.5	61265.9	58543.6	56728.8	54769.8	49622.9	37316.7	21568.7	9301.0	4081.1	1617.5
5°	68560.0	62156.1	59004.0	57072.9	55267.1	51480.8	39878.2	23615.0	10071.3	4425.3	1709.6
2.5°	69871.6	62702.2	59285.2	57282.4	55569.2	52607.2	41428.7	24852.1	10536.6	4633.1	1765.1
0°	70315.2	62886.4	59379.8	57352.8	55670.5	52984.7	41947.9	25266.1	10692.2	4702.5	1783.7
-2.5°	69871.6	62702.2	59285.2	57282.4	55569.2	52607.2	41428.7	24852.1	10536.6	4633.1	1765.1
-5°	68560.0	62156.1	59004.0	57072.9	55267.1	51480.8	39878.2	23615.0	10071.3	4425.3	1709.6
-7.5°	66434.5	61265.9	58543.6	56728.8	54769.8	49622.9	37316.7	21568.7	9301.0	4081.1	1617.5
-10°	63573.6	60058.3	57915.5	56257.3	54085.9	47061.0	33776.9	18735.9	8232.9	3603.2	1489.5
-12.5°	61556.0	58909.2	57171.1	55665.5	53226.7	43831.1	29301.7	15146.2	6877.0	2995.6	1326.5
-15°	59640.4	57901.1	56407.6	54550.7	49779.9	38966.0	24109.2	10835.7	5245.1	2263.0	1129.7
-17.5°	58295.8	56866.8	55466.2	53279.8	44968.6	32260.3	18703.0	8699.8	4043.8	1674.9	933.2
-20°	57022.5	55835.9	53942.6	48401.3	38402.4	24814.1	12625.0	6386.3	3000.0	1393.2	939.4



REPORT NUMBER: P699991 (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°
-22.5°	55835.9	54166.8	50150.9	42097.5	29536.3	17609.9	8734.1	4276.8	1842.9	1080.2	946.3
-25°	53942.6	50150.9	42939.3	31969.7	20661.3	10335.6	5748.5	2920.7	1432.7	937.0	948.0
-27.5°	48401.3	42097.5	31969.7	21688.9	11800.9	6920.7	3653.9	1690.3	1035.8	945.9	915.2
-30°	38402.4	29536.3	20661.3	11800.9	7314.9	4025.1	2001.6	1238.2	940.0	942.3	880.1
-32.5°	24814.1	17609.9	10335.6	6920.7	4025.1	2182.4	1340.6	936.5	950.7	902.4	799.5
-35°	12625.0	8734.1	5748.5	3653.9	2001.6	1340.6	935.3	948.4	915.9	843.4	701.0
-37.5°	6386.3	4276.8	2920.7	1690.3	1238.2	936.5	948.4	920.5	865.6	733.6	587.2
-40°	3000.0	1842.9	1432.7	1035.8	940.0	950.7	915.9	865.6	744.5	611.8	463.6
-42.5°	1393.2	1080.2	937.0	945.9	942.3	902.4	843.4	733.6	611.8	475.7	365.8
-45°	939.4	946.3	948.0	915.2	880.1	799.5	701.0	587.2	463.6	365.8	273.6
-47.5°	933.5	908.0	879.9	816.2	734.5	644.2	538.5	430.0	349.3	269.5	226.2
-50°	843.9	784.9	720.1	646.6	559.4	466.4	388.6	316.5	257.4	218.2	186.9
-52.5°	658.9	596.5	527.7	452.8	391.5	331.5	270.7	237.3	202.2	182.5	168.2
-55°	446.5	403.3	359.3	311.3	266.6	239.0	209.6	187.3	175.1	162.4	140.4
-57.5°	294.7	265.9	245.8	223.8	200.1	185.9	175.7	165.0	148.1	128.5	109.4
-60°	209.6	193.0	185.9	178.3	170.2	161.0	145.5	129.2	111.9	100.9	89.7
-62.5°	170.9	165.3	156.9	145.5	133.2	120.0	108.2	99.2	89.8	80.7	77.3
-65°	129.7	121.3	111.9	105.6	99.0	91.8	84.2	79.4	76.6	73.6	70.0
-67.5°	94.2	89.7	84.7	80.5	78.5	76.3	74.0	71.6	67.2	61.9	56.4
-70°	76.0	74.7	73.2	71.6	68.7	65.0	61.0	56.7	52.2	49.1	46.6
-72.5°	62.1	59.8	57.3	54.5	51.5	49.4	47.7	45.8	43.8	41.8	39.6
-75°	46.9	45.9	44.9	43.7	42.3	40.9	39.5	37.9	36.2	34.4	32.6
-77.5°	37.4	36.6	35.7	34.7	33.6	32.5	31.3	29.9	28.6	27.1	25.6
-80°	27.9	27.3	26.6	25.8	24.9	24.0	23.0	22.0	20.9	19.7	18.5
-82.5°	18.4	18.0	17.4	16.8	16.2	15.5	14.7	14.0	13.1	12.2	11.3
-85°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
-87.5°	9.5	9.3	9.2	9.0	8.7	8.5	8.3	8.0	7.7	7.4	7.1
-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: P699991 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-57-70-3R-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°	6.8	6.5	6.1	5.8	5.4	5.0	4.7	4.3	3.9	3.5	3.0
85°	10.1	10.1	10.1	10.1	10.1	10.1	9.3	8.5	7.7	6.9	6.1
82.5°	10.3	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	9.1
80°	17.2	15.8	14.5	13.0	11.5	10.1	10.1	10.1	10.1	10.1	10.1
77.5°	24.0	22.3	20.6	18.8	16.9	15.0	13.1	11.1	10.1	10.1	10.1
75°	30.7	28.7	26.6	24.5	22.3	20.0	17.7	15.3	12.9	10.4	10.1
72.5°	37.4	35.0	32.6	30.1	27.6	24.9	22.2	19.5	16.7	13.8	10.9
70°	44.0	41.3	38.6	35.7	32.8	29.8	26.7	23.6	20.4	17.1	13.8
67.5°	50.6	47.6	44.5	41.2	37.9	34.6	31.1	27.6	24.0	20.4	16.7
65°	63.5	56.9	50.3	46.7	43.0	39.3	35.5	31.6	27.6	23.6	19.5
62.5°	73.7	69.0	61.4	53.6	48.1	44.0	39.7	35.5	31.1	26.7	22.2
60°	80.0	76.0	71.8	64.2	55.4	48.6	44.0	39.3	34.6	29.8	24.9
57.5°	96.7	83.6	77.4	72.7	65.1	55.4	48.1	43.0	37.9	32.8	27.6
55°	117.6	101.0	86.4	77.9	72.7	64.2	53.6	46.7	41.2	35.7	30.1
52.5°	147.7	122.4	102.4	86.4	77.4	71.8	61.4	50.3	44.5	38.6	32.6
50°	171.2	150.1	122.4	101.0	83.6	76.0	69.0	56.9	47.6	41.3	35.0
47.5°	188.4	171.2	147.7	117.6	96.7	80.0	73.7	63.5	50.6	44.0	37.4
45°	226.2	186.9	168.2	140.4	109.4	89.7	77.3	70.0	56.4	46.6	39.6
42.5°	269.5	218.2	182.5	162.4	128.5	100.9	80.7	73.6	61.9	49.1	41.8
40°	349.3	257.4	202.2	175.1	148.1	111.9	89.8	76.6	67.2	52.2	43.8
37.5°	430.0	316.5	237.3	187.3	165.0	129.2	99.2	79.4	71.6	56.7	45.8
35°	538.5	388.6	270.7	209.6	175.7	145.5	108.2	84.2	74.0	61.0	47.7
32.5°	644.2	466.4	331.5	239.0	185.9	161.0	120.0	91.8	76.3	65.0	49.4
30°	734.5	559.4	391.5	266.6	200.1	170.2	133.2	99.0	78.5	68.7	51.5
27.5°	816.2	646.6	452.8	311.3	223.8	178.3	145.5	105.6	80.5	71.6	54.5
25°	879.9	720.1	527.7	359.3	245.8	185.9	156.9	111.9	84.7	73.2	57.3
22.5°	908.0	784.9	596.5	403.3	265.9	193.0	165.3	121.3	89.7	74.7	59.8
20°	933.5	843.9	658.9	446.5	294.7	209.6	170.9	129.7	94.2	76.0	62.1
17.5°	951.8	881.6	708.8	497.7	327.2	224.4	175.9	137.2	98.2	77.2	64.2
15°	946.7	900.2	751.3	542.5	355.6	237.3	180.3	143.8	101.7	78.2	65.9
12.5°	942.4	916.0	787.7	580.7	379.9	248.3	184.0	149.4	104.7	79.1	67.4
10°	938.8	929.1	817.7	612.3	399.9	257.4	187.1	154.0	107.1	79.8	68.7
7.5°	936.0	939.4	841.2	637.0	415.6	264.4	189.5	157.6	109.0	80.4	69.7
5°	934.0	946.8	858.1	654.7	426.8	269.5	191.2	160.1	110.4	80.8	70.3
2.5°	932.8	951.2	868.2	665.3	433.5	272.6	192.3	161.7	111.2	81.0	70.8
0°	932.4	952.7	871.6	668.9	435.8	273.6	192.6	162.2	111.5	81.1	70.9
-2.5°	932.8	951.2	868.2	665.3	433.5	272.6	192.3	161.7	111.2	81.0	70.8
-5°	934.0	946.8	858.1	654.7	426.8	269.5	191.2	160.1	110.4	80.8	70.3
-7.5°	936.0	939.4	841.2	637.0	415.6	264.4	189.5	157.6	109.0	80.4	69.7
-10°	938.8	929.1	817.7	612.3	399.9	257.4	187.1	154.0	107.1	79.8	68.7
-12.5°	942.4	916.0	787.7	580.7	379.9	248.3	184.0	149.4	104.7	79.1	67.4
-15°	946.7	900.2	751.3	542.5	355.6	237.3	180.3	143.8	101.7	78.2	65.9
-17.5°	951.8	881.6	708.8	497.7	327.2	224.4	175.9	137.2	98.2	77.2	64.2
-20°	933.5	843.9	658.9	446.5	294.7	209.6	170.9	129.7	94.2	76.0	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°	908.0	784.9	596.5	403.3	265.9	193.0	165.3	121.3	89.7	74.7	59.8
-25°	879.9	720.1	527.7	359.3	245.8	185.9	156.9	111.9	84.7	73.2	57.3
-27.5°	816.2	646.6	452.8	311.3	223.8	178.3	145.5	105.6	80.5	71.6	54.5
-30°	734.5	559.4	391.5	266.6	200.1	170.2	133.2	99.0	78.5	68.7	51.5
-32.5°	644.2	466.4	331.5	239.0	185.9	161.0	120.0	91.8	76.3	65.0	49.4
-35°	538.5	388.6	270.7	209.6	175.7	145.5	108.2	84.2	74.0	61.0	47.7
-37.5°	430.0	316.5	237.3	187.3	165.0	129.2	99.2	79.4	71.6	56.7	45.8
-40°	349.3	257.4	202.2	175.1	148.1	111.9	89.8	76.6	67.2	52.2	43.8
-42.5°	269.5	218.2	182.5	162.4	128.5	100.9	80.7	73.6	61.9	49.1	41.8
-45°	226.2	186.9	168.2	140.4	109.4	89.7	77.3	70.0	56.4	46.6	39.6
-47.5°	188.4	171.2	147.7	117.6	96.7	80.0	73.7	63.5	50.6	44.0	37.4
-50°	171.2	150.1	122.4	101.0	83.6	76.0	69.0	56.9	47.6	41.3	35.0
-52.5°	147.7	122.4	102.4	86.4	77.4	71.8	61.4	50.3	44.5	38.6	32.6
-55°	117.6	101.0	86.4	77.9	72.7	64.2	53.6	46.7	41.2	35.7	30.1
-57.5°	96.7	83.6	77.4	72.7	65.1	55.4	48.1	43.0	37.9	32.8	27.6
-60°	80.0	76.0	71.8	64.2	55.4	48.6	44.0	39.3	34.6	29.8	24.9
-62.5°	73.7	69.0	61.4	53.6	48.1	44.0	39.7	35.5	31.1	26.7	22.2
-65°	63.5	56.9	50.3	46.7	43.0	39.3	35.5	31.6	27.6	23.6	19.5
-67.5°	50.6	47.6	44.5	41.2	37.9	34.6	31.1	27.6	24.0	20.4	16.7
-70°	44.0	41.3	38.6	35.7	32.8	29.8	26.7	23.6	20.4	17.1	13.8
-72.5°	37.4	35.0	32.6	30.1	27.6	24.9	22.2	19.5	16.7	13.8	10.9
-75°	30.7	28.7	26.6	24.5	22.3	20.0	17.7	15.3	12.9	10.4	10.1
-77.5°	24.0	22.3	20.6	18.8	16.9	15.0	13.1	11.1	10.1	10.1	10.1
-80°	17.2	15.8	14.5	13.0	11.5	10.1	10.1	10.1	10.1	10.1	10.1
-82.5°	10.3	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	9.1
-85°	10.1	10.1	10.1	10.1	10.1	10.1	9.3	8.5	7.7	6.9	6.1
-87.5°	6.8	6.5	6.1	5.8	5.4	5.0	4.7	4.3	3.9	3.5	3.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	2.6	2.2	1.8	1.3	0.9	0.4	0.0
85°	5.2	4.4	3.5	2.6	1.8	0.9	0.0
82.5°	7.8	6.5	5.2	3.9	2.6	1.3	0.0
80°	10.1	8.7	7.0	5.2	3.5	1.8	0.0
77.5°	10.1	10.1	8.7	6.5	4.4	2.2	0.0
75°	10.1	10.1	10.1	7.8	5.2	2.6	0.0
72.5°	10.1	10.1	10.1	9.1	6.1	3.0	0.0
70°	10.4	10.1	10.1	10.1	6.9	3.5	0.0
67.5°	12.9	10.1	10.1	10.1	7.7	3.9	0.0
65°	15.3	11.1	10.1	10.1	8.5	4.3	0.0
62.5°	17.7	13.1	10.1	10.1	9.3	4.7	0.0
60°	20.0	15.0	10.1	10.1	10.1	5.0	0.0
57.5°	22.3	16.9	11.5	10.1	10.1	5.4	0.0
55°	24.5	18.8	13.0	10.1	10.1	5.8	0.0
52.5°	26.6	20.6	14.5	10.1	10.1	6.1	0.0
50°	28.7	22.3	15.8	10.1	10.1	6.5	0.0
47.5°	30.7	24.0	17.2	10.3	10.1	6.8	0.0
45°	32.6	25.6	18.5	11.3	10.1	7.1	0.0
42.5°	34.4	27.1	19.7	12.2	10.1	7.4	0.0
40°	36.2	28.6	20.9	13.1	10.1	7.7	0.0
37.5°	37.9	29.9	22.0	14.0	10.1	8.0	0.0
35°	39.5	31.3	23.0	14.7	10.1	8.3	0.0
32.5°	40.9	32.5	24.0	15.5	10.1	8.5	0.0
30°	42.3	33.6	24.9	16.2	10.1	8.7	0.0
27.5°	43.7	34.7	25.8	16.8	10.1	9.0	0.0
25°	44.9	35.7	26.6	17.4	10.1	9.2	0.0
22.5°	45.9	36.6	27.3	18.0	10.1	9.3	0.0
20°	46.9	37.4	27.9	18.4	10.1	9.5	0.0
17.5°	47.8	38.1	28.5	18.9	10.1	9.6	0.0
15°	48.6	38.8	29.0	19.3	10.1	9.8	0.0
12.5°	49.2	39.3	29.4	19.6	10.1	9.9	0.0
10°	49.7	39.7	29.8	19.8	10.1	9.9	0.0
7.5°	50.2	40.1	30.1	20.0	10.1	10.0	0.0
5°	50.5	40.3	30.2	20.2	10.1	10.1	0.0
2.5°	50.6	40.5	30.4	20.3	10.1	10.1	0.0
0°	50.7	40.5	30.4	20.3	10.1	10.1	0.0
-2.5°	50.6	40.5	30.4	20.3	10.1	10.1	0.0
-5°	50.5	40.3	30.2	20.2	10.1	10.1	0.0
-7.5°	50.2	40.1	30.1	20.0	10.1	10.0	0.0
-10°	49.7	39.7	29.8	19.8	10.1	9.9	0.0
-12.5°	49.2	39.3	29.4	19.6	10.1	9.9	0.0
-15°	48.6	38.8	29.0	19.3	10.1	9.8	0.0
-17.5°	47.8	38.1	28.5	18.9	10.1	9.6	0.0
-20°	46.9	37.4	27.9	18.4	10.1	9.5	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	45.9	36.6	27.3	18.0	10.1	9.3	0.0
-25°	44.9	35.7	26.6	17.4	10.1	9.2	0.0
-27.5°	43.7	34.7	25.8	16.8	10.1	9.0	0.0
-30°	42.3	33.6	24.9	16.2	10.1	8.7	0.0
-32.5°	40.9	32.5	24.0	15.5	10.1	8.5	0.0
-35°	39.5	31.3	23.0	14.7	10.1	8.3	0.0
-37.5°	37.9	29.9	22.0	14.0	10.1	8.0	0.0
-40°	36.2	28.6	20.9	13.1	10.1	7.7	0.0
-42.5°	34.4	27.1	19.7	12.2	10.1	7.4	0.0
-45°	32.6	25.6	18.5	11.3	10.1	7.1	0.0
-47.5°	30.7	24.0	17.2	10.3	10.1	6.8	0.0
-50°	28.7	22.3	15.8	10.1	10.1	6.5	0.0
-52.5°	26.6	20.6	14.5	10.1	10.1	6.1	0.0
-55°	24.5	18.8	13.0	10.1	10.1	5.8	0.0
-57.5°	22.3	16.9	11.5	10.1	10.1	5.4	0.0
-60°	20.0	15.0	10.1	10.1	10.1	5.0	0.0
-62.5°	17.7	13.1	10.1	10.1	9.3	4.7	0.0
-65°	15.3	11.1	10.1	10.1	8.5	4.3	0.0
-67.5°	12.9	10.1	10.1	10.1	7.7	3.9	0.0
-70°	10.4	10.1	10.1	10.1	6.9	3.5	0.0
-72.5°	10.1	10.1	10.1	9.1	6.1	3.0	0.0
-75°	10.1	10.1	10.1	7.8	5.2	2.6	0.0
-77.5°	10.1	10.1	8.7	6.5	4.4	2.2	0.0
-80°	10.1	8.7	7.0	5.2	3.5	1.8	0.0
-82.5°	7.8	6.5	5.2	3.9	2.6	1.3	0.0
-85°	5.2	4.4	3.5	2.6	1.8	0.9	0.0
-87.5°	2.6	2.2	1.8	1.3	0.9	0.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)