

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: P699951 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/10/2023

Test Information

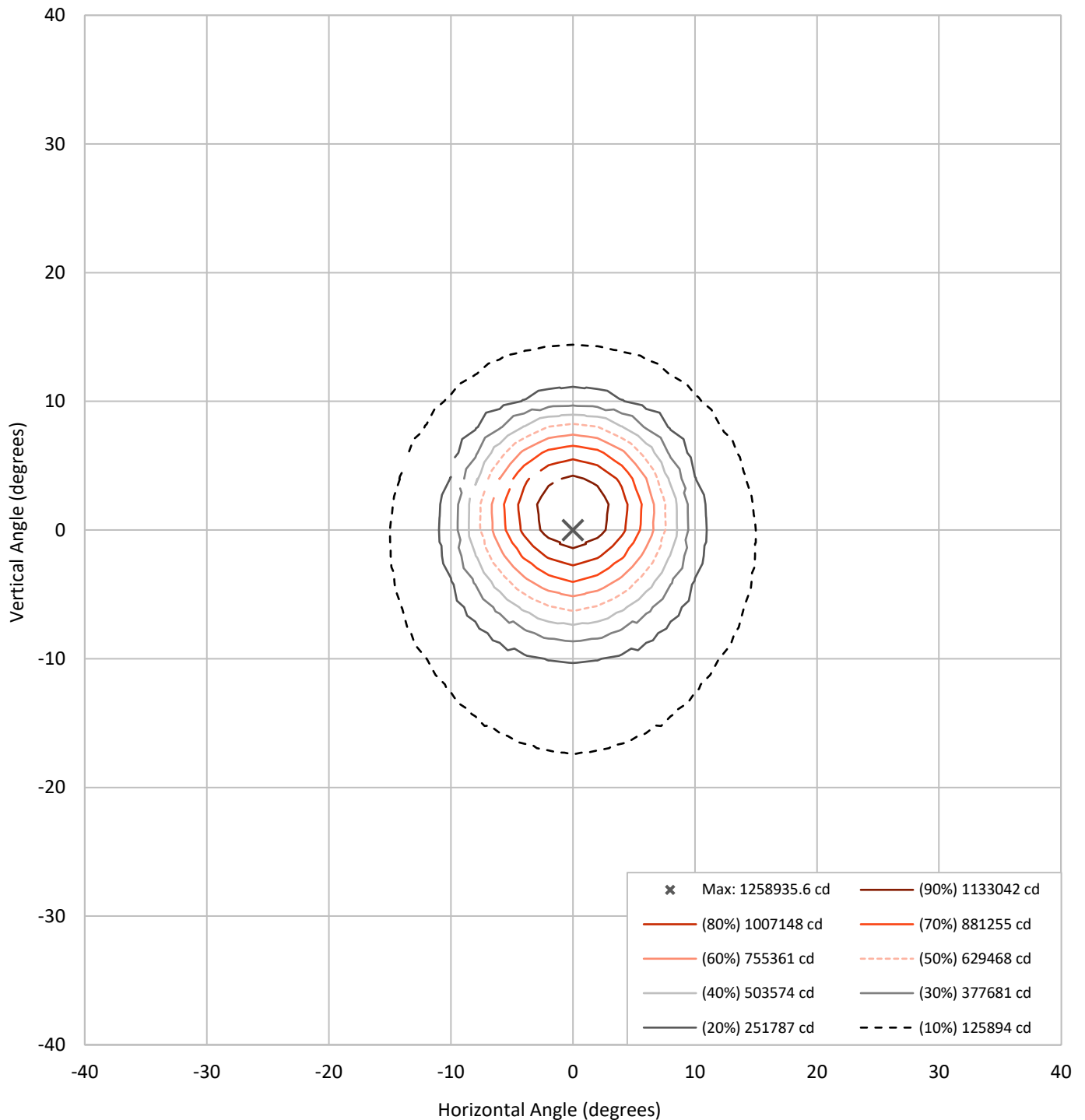
Test Method: LM-79-08
Report Number: P699951 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-54)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200R-40-80-3L-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 80 CRI LEDS AND 3L BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	164936.9 lumens	Max Intensity:	1258935.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	128.0 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	15.2°H x 14.5°V	Field Angle (10%):	29.6°H x 31.5°V
Beam Lumens:	45986.7 lumens	Field Lumens:	91773.9 lumens
Beam Efficiency:	27.9%	Field Efficiency:	55.6%
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





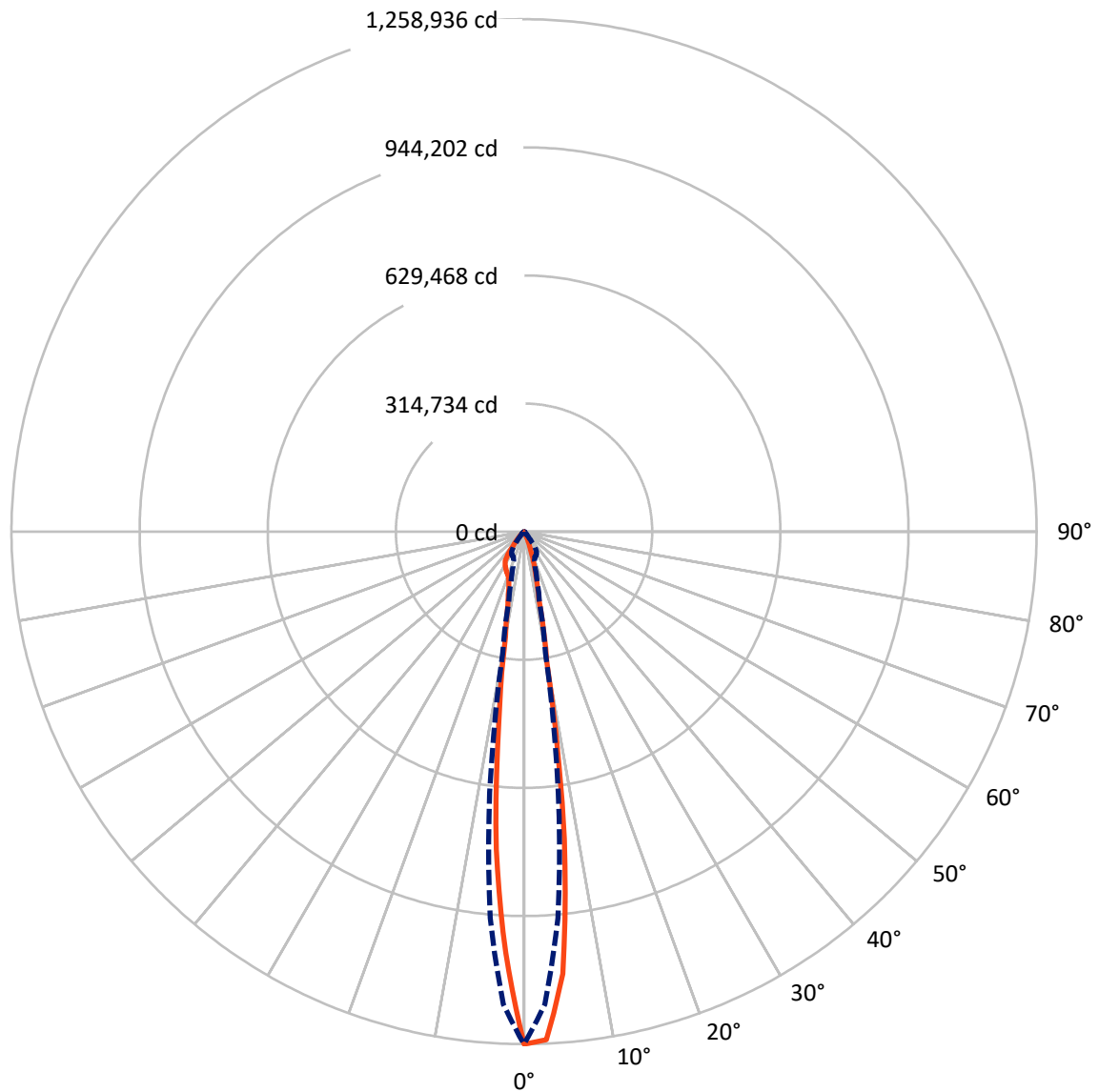
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Lumen Table

90	0.3	1.3		2.3		3.3		3.6		3.3		2.3		1.3		0.3			
80	0.3	1.3		2.3		3.3		3.6		3.3		2.3		1.3		0.3			
70	0.6	0.5	0.7	1.1	1.8	2.4	3.1	3.6	3.6	3.1	2.4	1.8	1.1	0.7	0.5	0.6			
60		0.6	1.1	2.1	3.7	6.4	12.3	25.9	25.9	12.3	6.4	3.7	2.1	1.1	0.6				
50	0.8	0.7	1.8	4.5	9.5	16.2	23.6	34.4	34.4	23.6	16.2	9.5	4.5	1.8	0.7	0.8			
40		1.0	3.4	9.3	17.9	28.8	45.4	63.8	63.8	45.4	28.8	17.9	9.3	3.4	1.0				
30	0.9	1.4	5.9	17.3	64.6	233.4	398.5	517.1	517.1	398.5	233.4	64.6	17.3	5.9	1.4	0.9			
20		1.8	9.6	43.9	386.4	1037.7	1722.2	3366.6	3366.6	1722.2	1037.7	386.4	43.9	9.6	1.8				
10	1.0	2.1	14.9	108.8	868.9	1663.5	3524.5	20437.3	20437.3	3524.5	1663.5	868.9	108.8	14.9	2.1	1.0			
0		2.4	19.7	164.1	1147.4	2007.3	3756.1	16416.5	16416.5	3756.1	2007.3	1147.4	164.1	19.7	2.4				
-10	0.9	2.4	17.3	144.3	1007.2	2278.6	2955.1	4323.6	4323.6	2955.1	2278.6	1007.2	144.3	17.3	2.4	0.9			
-20		1.8	10.8	73.7	512.2	1846.3	2748.5	3072.1	3072.1	2748.5	1846.3	512.2	73.7	10.8	1.8				
-30	0.7	1.2	5.9	23.7	153.1	651.5	1433.5	1948.3	1948.3	1433.5	651.5	153.1	23.7	5.9	1.2	0.7			
-40		0.8	2.9	8.0	27.9	119.3	283.9	414.9	414.9	283.9	119.3	27.9	8.0	2.9	0.8				
-50	0.6	0.6	1.4	3.4	6.6	12.6	27.4	40.6	40.6	27.4	12.6	6.6	3.4	1.4	0.6	0.6			
-60		0.4	0.8	1.4	2.3	3.6	5.0	5.5	5.5	5.0	3.6	2.3	1.4	0.8	0.4				
-70	0.3	1.2		2.2		3.1		3.4		3.1		2.2		1.2		0.3			
-80		1.2		2.2		3.1		3.4		3.1		2.2		1.2					
-90	0.3	1.2		2.2		3.1		3.4		3.1		2.2		1.2		0.3			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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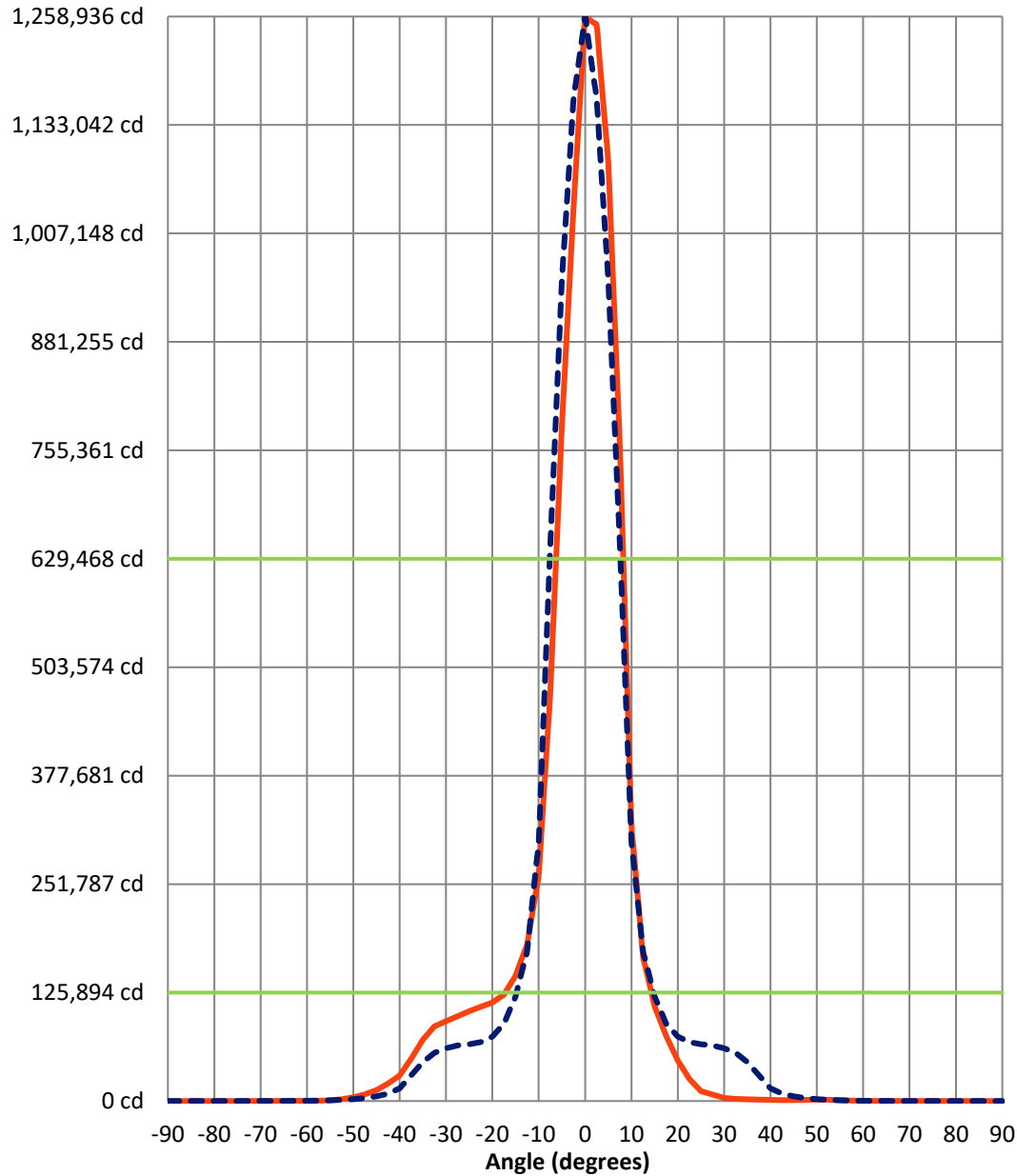
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 15.2°
 V Angle: 14.5°
 Lumens: 45986.7
 Efficiency: 27.9%

Field:
 H Angle: 29.6°
 V Angle: 31.5°
 Lumens: 91773.9
 Efficiency: 55.6%

Spill:
 Lumens: 73162.9
 Efficiency: 44.4%

- 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	0.8	1.7	2.5	3.3	4.1	4.9	5.7	6.5	7.3	8.0
85°	0.0	1.7	3.3	5.0	6.6	8.2	9.8	11.4	13.0	14.5	16.0
82.5°	0.0	2.5	5.0	7.4	9.9	12.3	14.7	17.1	19.2	20.4	21.5
80°	0.0	3.3	6.6	9.9	13.1	16.4	19.3	20.9	22.4	24.0	25.5
77.5°	0.0	4.1	8.2	12.3	16.4	19.7	21.7	23.7	25.6	27.6	28.5
75°	0.0	4.9	9.8	14.7	19.3	21.7	24.1	26.5	28.5	28.5	28.5
72.5°	0.0	5.7	11.4	17.1	20.9	23.7	26.5	28.5	28.5	28.5	28.5
70°	0.0	6.5	13.0	19.2	22.4	25.6	28.5	28.5	28.5	28.6	31.6
67.5°	0.0	7.3	14.5	20.4	24.0	27.6	28.5	28.5	28.6	32.0	35.4
65°	0.0	8.0	16.0	21.5	25.5	28.5	28.5	28.5	31.6	35.4	38.0
62.5°	0.0	8.8	17.5	22.6	27.0	28.5	28.5	30.3	34.5	38.0	38.0
60°	0.0	9.5	19.0	23.7	28.4	28.5	28.5	32.9	37.4	38.0	38.0
57.5°	0.0	10.2	19.7	24.8	28.5	28.5	30.4	35.3	38.0	38.0	40.4
55°	0.0	10.9	20.4	25.8	28.5	28.5	32.4	37.7	38.0	38.7	43.8
52.5°	0.0	11.6	21.1	26.8	28.5	28.8	34.4	38.0	38.0	41.7	47.2
50°	0.0	12.2	21.7	27.8	28.5	30.4	36.4	38.0	38.8	44.6	49.0
47.5°	0.0	12.8	22.3	28.5	28.5	32.0	38.0	38.0	41.3	47.4	51.1
45°	0.0	13.4	22.9	28.5	28.5	33.5	38.0	38.0	43.7	49.8	53.6
42.5°	0.0	14.0	23.5	28.5	28.5	34.9	38.0	39.2	46.0	52.4	57.7
40°	0.0	14.6	24.0	28.5	29.0	36.3	38.0	41.1	48.2	55.3	61.6
37.5°	0.0	15.1	24.6	28.5	30.1	37.6	38.0	42.9	50.3	57.7	64.8
35°	0.0	15.6	25.1	28.5	31.1	38.0	38.0	44.7	52.3	59.9	68.4
32.5°	0.0	16.0	25.5	28.5	32.0	38.0	38.4	46.3	54.2	62.1	73.5
30°	0.0	16.5	25.9	28.5	32.9	38.0	39.7	47.9	56.0	64.0	78.7
27.5°	0.0	16.9	26.3	28.5	33.7	38.0	40.9	49.3	57.6	65.9	84.0
25°	0.0	17.2	26.7	28.5	34.4	38.0	42.1	50.6	59.1	69.3	89.6
22.5°	0.0	17.6	27.1	28.5	35.1	38.0	43.1	51.8	60.5	73.5	99.3
20°	0.0	17.9	27.4	28.5	35.7	38.0	44.0	52.9	61.7	77.5	108.2
17.5°	0.0	18.1	27.6	28.5	36.2	38.0	44.8	53.8	62.8	81.4	116.3
15°	0.0	18.4	27.9	28.5	36.7	38.0	45.5	54.7	63.8	85.1	123.5
12.5°	0.0	18.5	28.0	28.5	37.1	38.0	46.1	55.4	65.4	88.5	129.8
10°	0.0	18.7	28.2	28.5	37.4	38.0	46.6	56.0	67.6	91.1	135.4
7.5°	0.0	18.8	28.3	28.5	37.7	38.0	47.0	56.4	69.8	93.0	140.8
5°	0.0	18.9	28.4	28.5	37.9	38.0	47.3	56.7	72.1	94.2	145.4
2.5°	0.0	19.0	28.5	28.5	38.0	38.0	47.4	56.9	74.1	94.8	149.2
0°	0.0	19.0	28.5	28.5	38.0	38.0	47.5	57.0	76.0	95.0	152.0
-2.5°	0.0	19.0	28.5	28.5	38.0	38.0	47.4	56.9	75.8	96.8	158.0
-5°	0.0	18.9	28.4	28.5	37.9	38.0	47.3	56.7	75.4	98.1	162.6
-7.5°	0.0	18.8	28.3	28.5	37.7	38.0	47.0	56.4	74.6	98.9	165.4
-10°	0.0	18.7	28.2	28.5	37.4	38.0	46.6	56.0	73.6	99.0	166.3
-12.5°	0.0	18.5	28.0	28.5	37.1	38.0	46.1	55.4	72.2	98.1	161.8
-15°	0.0	18.4	27.9	28.5	36.7	38.0	45.5	54.7	70.6	95.3	154.1
-17.5°	0.0	18.1	27.6	28.5	36.2	38.0	44.8	53.8	68.7	92.0	144.5
-20°	0.0	17.9	27.4	28.5	35.7	38.0	44.0	52.9	66.5	88.3	133.2



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 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3L-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	27.1	28.5	35.1	38.0	43.1	51.8	64.0	84.0	120.1
-25°	0.0	17.2	26.7	28.5	34.4	37.8	42.1	50.6	61.2	79.3	105.2
-27.5°	0.0	16.9	26.3	28.5	33.7	37.5	40.9	49.3	58.2	74.8	99.0
-30°	0.0	16.5	25.9	28.5	32.9	37.1	39.7	47.9	56.0	71.1	92.7
-32.5°	0.0	16.0	25.5	28.5	31.9	36.6	38.4	46.3	54.2	67.1	86.0
-35°	0.0	15.6	25.1	28.5	30.9	36.0	37.6	44.7	52.3	62.8	78.9
-37.5°	0.0	15.1	24.6	28.5	29.9	35.1	36.9	42.9	50.3	58.3	72.9
-40°	0.0	14.6	24.0	28.5	29.0	33.9	36.1	41.1	48.2	55.3	67.6
-42.5°	0.0	14.0	23.5	28.5	28.5	32.6	35.0	39.2	46.0	52.8	62.0
-45°	0.0	13.4	22.9	28.5	28.5	31.5	33.7	37.4	43.7	50.2	56.6
-47.5°	0.0	12.8	22.3	28.5	28.5	30.5	32.3	35.6	41.3	47.4	53.5
-50°	0.0	12.2	21.7	27.8	28.5	29.5	31.2	33.6	38.8	44.6	50.4
-52.5°	0.0	11.6	21.1	26.8	28.5	28.6	30.3	31.3	36.2	41.7	47.2
-55°	0.0	10.9	20.4	25.8	28.5	28.5	29.5	29.0	33.5	38.7	43.8
-57.5°	0.0	10.2	19.7	24.8	28.5	28.5	28.9	28.6	30.7	35.6	40.4
-60°	0.0	9.5	19.0	23.7	28.4	28.5	28.5	28.5	28.5	32.4	36.9
-62.5°	0.0	8.8	17.5	22.6	27.0	28.5	28.5	28.5	28.5	29.2	33.3
-65°	0.0	8.0	16.0	21.5	25.5	28.5	28.5	28.4	28.5	28.5	29.6
-67.5°	0.0	7.3	14.5	20.4	24.0	27.6	28.5	28.1	28.5	28.5	28.5
-70°	0.0	6.5	13.0	19.2	22.4	25.6	28.5	27.6	27.3	28.5	28.5
-72.5°	0.0	5.7	11.4	17.1	20.9	23.7	26.5	27.0	26.0	26.3	27.8
-75°	0.0	4.9	9.8	14.7	19.3	21.7	24.1	25.0	24.5	23.8	24.2
-77.5°	0.0	4.1	8.2	12.3	16.4	19.7	21.7	22.7	22.6	21.6	20.4
-80°	0.0	3.3	6.6	9.9	13.1	16.4	19.3	20.5	20.8	20.4	19.2
-82.5°	0.0	2.5	5.0	7.4	9.9	12.3	14.7	17.1	19.1	19.4	19.0
-85°	0.0	1.7	3.3	5.0	6.6	8.2	9.8	11.4	13.0	14.5	16.0
-87.5°	0.0	0.8	1.7	2.5	3.3	4.1	4.9	5.7	6.5	7.3	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



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 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3L-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	10.2	10.9	11.6	12.2	12.8	13.4	14.0	14.6	15.1
85°	17.5	19.0	19.2	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
82.5°	21.8	21.5	20.6	19.2	19.0	19.0	19.2	20.1	20.5	20.5	20.0
80°	25.3	24.1	22.7	22.0	23.1	24.4	25.6	26.8	26.1	24.4	22.9
77.5°	27.2	26.3	26.4	27.2	28.5	28.5	28.5	28.5	27.9	27.8	28.2
75°	28.1	28.4	29.1	28.9	28.5	28.5	28.8	30.6	31.7	31.8	30.9
72.5°	30.1	31.2	31.0	29.7	30.6	32.9	35.0	37.2	37.2	36.8	38.2
70°	33.9	34.3	33.7	34.2	36.2	38.0	38.0	38.0	38.5	42.3	47.5
67.5°	37.4	36.3	36.7	38.1	38.0	38.0	38.0	42.7	48.6	54.0	57.7
65°	37.9	37.7	39.2	39.5	38.2	41.6	46.9	53.6	59.3	62.3	64.9
62.5°	38.0	40.5	41.9	41.9	43.4	48.0	55.5	61.7	66.1	71.9	77.8
60°	41.2	44.3	44.7	45.5	49.2	57.5	64.9	70.8	77.9	85.7	92.1
57.5°	45.1	46.8	46.6	50.9	59.6	67.3	72.7	79.9	90.4	99.2	106.9
55°	47.8	47.4	50.9	60.5	68.2	72.7	81.0	94.0	104.7	116.9	126.6
52.5°	48.8	49.5	59.6	68.2	73.2	82.4	96.6	111.4	126.1	139.4	153.1
50°	50.3	57.5	67.3	72.7	83.0	99.4	115.7	133.5	152.9	169.8	191.2
47.5°	55.4	64.7	71.4	80.3	100.1	119.7	139.0	163.7	186.1	215.4	246.5
45°	61.0	69.9	76.0	97.0	119.5	142.9	170.8	198.7	231.2	268.2	317.9
42.5°	66.0	75.0	90.9	114.0	141.9	172.5	205.7	241.1	279.8	333.2	397.4
40°	71.0	80.8	107.9	136.0	166.9	205.8	247.4	288.3	337.7	408.2	485.4
37.5°	76.4	96.5	125.9	158.4	198.1	243.7	291.0	347.4	412.7	489.2	572.8
35°	82.0	112.1	146.6	185.6	231.5	285.7	345.4	413.8	499.7	577.8	655.4
32.5°	92.8	127.7	167.1	216.8	271.7	331.8	400.1	497.6	589.3	671.2	727.7
30°	106.2	145.7	189.8	248.4	311.9	386.2	474.5	581.9	678.2	757.8	818.0
27.5°	118.8	163.4	217.9	283.1	353.9	442.9	562.2	666.1	764.0	852.8	928.1
25°	130.5	180.5	245.8	317.9	405.3	517.4	655.3	780.7	860.3	971.8	1177.3
22.5°	143.0	197.7	271.1	351.5	457.4	598.5	764.9	926.9	1059.8	1151.1	1540.5
20°	156.6	218.8	297.2	389.3	511.6	679.8	886.6	1105.0	1333.4	1731.1	2663.4
17.5°	169.7	238.2	325.2	439.0	593.3	789.7	1022.9	1309.8	1661.5	2465.1	4581.1
15°	182.2	255.7	353.2	490.2	685.1	947.5	1266.6	1623.3	2193.0	3589.0	6903.5
12.5°	193.8	271.2	380.4	541.6	781.3	1120.8	1563.5	2152.1	3131.5	5507.1	11440.7
10°	204.3	284.8	406.4	592.0	879.2	1303.4	1886.7	2758.0	4241.1	7628.5	15998.2
7.5°	211.0	294.3	431.2	640.0	975.5	1488.6	2223.5	3411.5	5382.7	9634.7	20377.0
5°	215.3	299.7	458.2	710.2	1108.9	1704.5	2579.7	4080.8	6513.5	11479.5	24416.6
2.5°	217.7	302.9	482.8	781.2	1263.1	1964.0	3005.9	4805.6	7591.0	13226.6	27660.8
0°	218.5	304.0	503.5	845.6	1406.1	2204.2	3401.3	5472.5	8560.3	14773.9	29918.3
-2.5°	232.5	338.3	546.0	893.5	1480.1	2355.5	3687.9	5991.9	9629.0	16512.3	31632.0
-5°	244.4	368.9	582.4	930.5	1532.5	2468.6	3909.8	6388.5	10413.0	17623.9	32129.2
-7.5°	253.8	394.3	611.9	950.0	1539.0	2486.1	3964.8	6472.4	10626.9	17826.3	31361.1
-10°	259.0	399.4	597.6	915.9	1485.1	2422.5	3909.2	6391.1	10525.2	17488.6	29738.7
-12.5°	254.0	387.3	571.8	869.8	1404.8	2305.6	3752.7	6127.6	10067.7	16563.7	27136.8
-15°	245.6	372.3	542.1	811.1	1296.8	2131.5	3485.6	5666.6	9129.7	14600.0	22903.8
-17.5°	233.7	354.5	509.0	739.8	1160.2	1896.8	3074.0	4893.1	7931.0	12811.0	20139.5
-20°	218.1	334.2	473.1	655.6	1008.7	1632.3	2640.8	4257.2	6872.3	10979.9	17029.0



REPORT NUMBER: P699951 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3L-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	198.4	311.6	439.4	600.5	880.1	1377.6	2202.4	3516.5	5599.3	8816.3	14009.9
-25°	178.9	288.5	410.0	539.3	745.8	1107.5	1726.2	2725.7	4462.0	7251.5	11425.3
-27.5°	160.9	260.4	368.7	478.2	614.1	860.6	1362.4	2176.0	3483.6	5512.0	8663.5
-30°	141.0	224.2	327.0	421.1	532.4	715.2	1040.8	1596.3	2519.0	4156.3	6590.9
-32.5°	118.8	188.0	284.9	373.9	465.7	577.0	763.8	1192.3	1860.3	2853.5	4623.2
-35°	101.4	161.9	242.7	327.2	402.3	487.6	624.1	849.8	1254.4	1992.4	3189.7
-37.5°	93.0	134.3	200.7	281.0	352.0	421.8	488.5	639.2	894.0	1269.9	2156.8
-40°	84.2	105.2	166.2	235.4	305.2	364.7	422.8	488.8	623.4	916.1	1328.7
-42.5°	75.3	94.6	133.1	190.1	256.7	317.7	362.9	407.3	471.3	614.6	898.7
-45°	68.8	84.0	102.6	152.4	204.8	268.6	317.8	350.5	385.7	435.9	574.9
-47.5°	62.1	74.0	90.8	116.1	160.7	209.9	270.4	309.6	334.2	359.1	376.0
-50°	56.1	66.5	79.3	97.7	124.7	160.2	204.6	261.4	296.9	314.3	328.8
-52.5°	52.5	58.7	70.2	84.8	102.0	125.8	154.0	190.4	241.5	282.1	294.6
-55°	48.9	53.8	60.9	73.1	87.8	103.7	120.6	144.2	165.3	210.7	252.9
-57.5°	45.1	49.7	54.3	61.4	73.9	87.8	100.1	112.1	130.7	148.3	171.6
-60°	41.2	45.5	49.7	53.8	59.4	71.7	82.9	93.5	104.1	114.4	130.5
-62.5°	37.3	41.2	45.1	48.9	52.5	57.5	67.6	77.1	84.7	93.7	102.5
-65°	33.3	36.9	40.4	43.8	47.2	51.1	56.4	63.1	71.3	77.1	82.4
-67.5°	29.2	32.4	35.6	38.7	41.5	43.8	47.4	52.2	58.1	63.1	67.8
-70°	28.5	28.5	30.7	33.5	35.6	35.9	37.7	40.5	44.6	48.9	53.2
-72.5°	28.5	28.5	28.5	28.5	30.3	31.3	31.0	29.7	31.8	37.1	41.2
-75°	26.1	28.3	28.5	28.5	28.0	27.9	28.6	28.7	29.1	30.7	33.1
-77.5°	21.8	23.6	25.4	27.1	26.8	25.2	24.4	24.3	25.4	26.8	28.1
-80°	19.0	19.0	20.3	21.7	22.2	21.9	20.9	19.3	19.0	19.5	20.6
-82.5°	19.0	19.0	19.0	19.0	19.0	19.0	19.1	19.0	19.0	19.0	19.0
-85°	17.5	19.0	19.0	19.0	19.0	19.0	19.0	19.0	17.8	16.8	16.1
-87.5°	8.8	9.5	10.2	10.9	11.6	12.2	12.8	13.4	12.3	10.9	9.4
-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: P699951 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3L-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	14.0	12.4	10.6	8.6	8.8	8.9	9.1	9.2	7.0	4.7
85°	19.0	18.3	17.7	17.4	17.2	15.6	13.7	11.7	9.5	9.4	9.4
82.5°	19.1	19.0	19.0	19.0	19.0	18.5	18.2	18.0	18.0	18.3	18.6
80°	21.9	22.5	23.4	24.2	24.9	25.6	26.2	26.7	27.2	27.6	27.9
77.5°	28.6	28.9	29.8	31.3	33.2	34.3	35.1	35.8	36.4	36.9	37.3
75°	29.3	30.8	35.2	38.8	41.6	43.1	44.0	44.8	45.5	46.1	46.6
72.5°	41.4	45.3	47.9	49.3	50.6	51.8	52.9	53.8	54.7	55.4	56.0
70°	51.5	54.2	56.0	57.6	59.1	60.9	63.6	66.6	70.0	72.2	73.6
67.5°	59.9	62.1	64.0	65.9	68.7	72.4	76.6	79.7	82.1	84.5	87.5
65°	68.4	73.2	77.7	81.8	85.7	89.2	92.3	95.1	97.6	100.0	102.0
62.5°	83.4	88.7	93.6	98.3	102.5	107.4	112.7	117.4	121.5	125.6	130.8
60°	98.3	104.1	109.8	116.6	124.2	132.7	141.8	151.6	162.1	172.8	181.9
57.5°	114.9	120.8	127.6	141.3	154.2	166.3	186.3	214.9	246.0	280.7	341.5
55°	136.7	148.0	158.4	182.2	209.4	236.3	270.0	328.0	393.1	463.0	613.5
52.5°	166.3	192.2	217.7	249.3	294.5	339.9	389.4	475.6	567.0	661.3	851.7
50°	222.4	256.4	298.9	343.5	398.4	454.5	510.4	605.0	699.4	791.3	963.9
47.5°	292.3	340.0	392.4	441.4	502.5	557.9	606.5	681.5	762.3	831.7	943.1
45°	372.5	435.3	491.9	542.8	597.7	645.1	682.2	724.7	785.7	827.5	875.6
42.5°	467.0	529.8	588.0	636.3	679.8	722.3	757.4	787.2	832.7	875.1	912.4
40°	556.9	618.2	670.4	718.4	759.8	801.1	859.3	909.3	963.9	1038.0	1111.0
37.5°	642.5	696.3	745.3	792.9	856.0	927.3	996.6	1078.1	1170.7	1304.0	1438.0
35°	718.6	769.6	816.9	884.8	969.0	1053.2	1157.9	1311.0	1456.2	1621.6	1788.2
32.5°	786.6	846.0	913.5	999.7	1108.0	1310.8	1403.4	1618.0	1747.4	1955.3	2190.9
30°	856.8	956.4	1174.8	1303.5	1582.5	1965.5	2008.8	2229.2	2502.7	2681.8	3193.8
27.5°	1047.4	1317.0	1821.1	2739.2	2928.1	3479.7	4119.8	3844.8	5059.2	4884.3	6607.8
25°	1559.0	2163.1	4122.4	5894.9	6710.9	7415.1	8993.3	9476.5	11664.7	13047.6	13412.6
22.5°	2733.6	5360.5	8197.0	10699.0	13008.4	14894.6	16926.8	19924.8	21269.7	21949.6	22540.9
20°	4922.5	9726.3	14052.7	17638.7	20939.7	24100.5	27827.9	30052.4	31463.7	34378.2	37387.2
17.5°	9552.6	15446.6	20747.4	25243.5	29592.2	34503.9	37626.4	40156.2	43981.4	49198.9	55141.0
15°	14933.4	21894.2	27787.6	33206.8	38742.0	43507.7	46543.2	50464.1	56636.0	64713.8	74871.3
12.5°	20619.8	28331.2	34692.8	40701.6	47515.2	50754.5	54198.8	59927.3	68520.1	80191.6	100913.1
10°	26231.5	34387.3	41185.1	47594.0	53129.0	56424.8	60343.2	67139.8	80538.1	102138.0	132560.9
7.5°	31752.9	40418.0	47212.6	53398.1	57489.3	60408.2	65362.3	75077.9	93692.9	123574.8	170618.3
5°	37050.2	46120.8	52561.5	57880.7	60727.7	63516.9	69186.8	81704.4	107314.3	148103.2	228706.5
2.5°	41652.0	51326.5	57218.1	61497.7	63393.1	66056.9	72374.0	86565.0	116654.0	167549.1	294503.6
0°	45195.8	55884.3	61204.8	64568.1	65917.2	68482.5	74886.1	89755.0	121497.5	174132.5	301672.5
-2.5°	47772.9	59523.1	64734.6	67642.6	68854.3	71030.2	77047.1	90675.8	120408.2	170127.2	280805.5
-5°	48902.2	61760.6	67785.7	70836.5	72268.8	74178.8	79240.7	91137.1	115649.8	153949.0	224205.1
-7.5°	48501.5	62803.1	70426.3	73927.4	75698.2	77589.3	81664.7	90570.4	108036.7	135862.3	179293.7
-10°	46647.1	62730.4	72513.5	76771.9	79318.0	81267.1	84018.3	89312.9	100541.4	120716.8	146125.9
-12.5°	43278.2	61115.9	74045.4	79207.0	82500.1	84849.7	87433.8	91359.0	97639.2	107157.9	125627.8
-15°	38806.7	57250.0	72210.2	80223.4	84582.3	88075.3	90904.9	93419.5	97550.7	103478.8	111780.4
-17.5°	33383.2	51021.1	67930.5	80316.5	85807.6	89981.1	93077.9	96060.2	98662.3	102564.6	106421.7
-20°	26383.5	43281.4	61395.6	75751.6	84849.5	90000.1	94063.6	96980.9	99655.9	102137.2	104716.0



REPORT NUMBER: P699951 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3L-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	21639.2	34790.8	51593.2	69037.7	80332.7	87764.8	92797.5	95942.6	98904.8	100718.9	102710.6
-25°	17383.8	25798.1	40892.4	56820.8	71795.7	82175.5	88872.4	93137.2	95788.7	97895.3	99397.8
-27.5°	13592.4	20494.5	29759.9	44290.8	58725.7	71438.5	80473.7	88321.8	91073.9	93681.1	95021.8
-30°	9919.0	15333.5	22704.7	31676.7	44100.3	55611.0	66654.9	75444.0	82325.1	87388.4	89302.0
-32.5°	7310.2	10786.0	16344.6	23188.0	29775.3	39762.0	49340.7	58362.8	66662.5	73468.0	78313.0
-35°	4986.3	7575.5	10681.7	15893.5	21042.8	26664.4	32766.1	40547.1	47078.7	54554.6	60967.4
-37.5°	3370.9	5044.6	7411.8	10234.6	14306.4	18132.9	22295.4	26430.1	30257.6	36297.3	41619.1
-40°	2200.0	3253.3	4911.7	6847.9	9454.8	11910.4	15000.6	17639.7	20414.6	23688.9	26490.8
-42.5°	1307.6	2080.7	3026.0	4428.1	5999.0	7712.1	9729.4	11623.2	13507.2	15474.2	17227.9
-45°	796.2	1218.8	1770.3	2650.1	3522.1	4738.3	5936.2	7036.0	8458.8	9715.8	10738.8
-47.5°	509.0	664.1	1008.0	1437.7	1949.6	2689.8	3412.1	4144.0	5041.6	5843.0	6481.5
-50°	354.2	418.7	559.5	703.0	1011.8	1371.6	1718.9	2168.3	2710.1	3202.7	3591.3
-52.5°	305.4	328.3	356.5	409.5	535.8	660.8	783.7	1038.3	1297.5	1529.9	1712.6
-55°	275.0	283.7	291.6	315.5	345.1	375.3	418.6	515.6	609.1	697.3	761.0
-57.5°	207.7	238.5	259.5	269.2	279.5	290.1	311.0	336.2	357.8	375.6	386.2
-60°	145.9	160.4	187.1	211.7	231.9	247.8	261.1	275.1	288.0	297.4	297.3
-62.5°	110.9	122.0	136.2	150.2	163.4	178.6	196.0	212.8	228.7	240.3	244.0
-65°	88.4	95.5	103.6	112.4	121.8	132.7	141.6	150.4	158.9	165.2	168.1
-67.5°	72.3	76.6	80.6	84.3	89.8	96.2	101.9	106.9	111.2	115.0	118.0
-70°	57.2	60.9	64.4	67.7	70.7	73.5	76.0	78.2	80.1	81.7	83.1
-72.5°	44.3	46.3	48.2	51.1	53.7	56.1	58.2	60.2	61.8	63.2	64.4
-75°	36.2	38.4	39.7	40.9	42.1	43.1	44.0	44.8	45.5	46.1	46.6
-77.5°	29.3	29.1	28.7	28.8	29.2	30.7	32.2	33.5	34.7	35.7	36.5
-80°	21.6	21.8	21.3	20.5	19.2	18.4	17.9	17.7	17.7	18.1	18.4
-82.5°	19.0	18.0	17.2	16.6	16.4	15.1	13.5	11.7	9.6	9.3	9.3
-85°	15.6	14.5	13.0	11.4	9.6	9.5	9.5	9.5	9.5	7.2	4.8
-87.5°	7.8	8.0	8.2	8.4	8.6	8.8	8.9	9.1	9.2	7.0	4.7
-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: P699951 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3L-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°	2.4	0.0	0.0	0.0	0.0	0.0	2.4	4.7	7.0	9.2	9.1
85°	9.4	9.4	9.5	9.5	9.5	9.4	9.4	9.4	9.4	9.5	11.7
82.5°	18.8	18.9	19.0	19.0	19.0	18.9	18.8	18.6	18.3	18.0	18.0
80°	28.2	28.4	28.5	28.5	28.5	28.4	28.2	27.9	27.6	27.2	26.7
77.5°	37.6	37.8	38.0	38.0	38.0	37.8	37.6	37.3	36.9	36.4	35.8
75°	47.0	47.3	47.4	47.5	47.4	47.3	47.0	46.6	46.1	45.5	44.8
72.5°	56.4	56.7	56.9	57.0	56.9	56.7	56.4	56.0	55.4	54.7	53.8
70°	74.6	75.4	75.8	76.0	75.8	75.4	74.6	73.6	72.2	70.0	66.6
67.5°	90.7	93.9	94.8	95.0	94.8	93.9	90.7	87.5	84.5	82.1	79.7
65°	103.3	104.1	104.4	104.5	104.4	104.1	103.3	102.0	100.0	97.6	95.1
62.5°	135.7	140.2	142.1	142.5	142.1	140.2	135.7	130.8	125.6	121.5	117.4
60°	189.6	195.9	202.7	209.0	202.7	195.9	189.6	181.9	172.8	162.1	151.6
57.5°	409.1	479.0	535.4	579.6	535.4	479.0	409.1	341.5	280.7	246.0	214.9
55°	780.5	952.6	1075.4	1159.1	1075.4	952.6	780.5	613.5	463.0	393.1	328.0
52.5°	1071.0	1291.5	1436.3	1520.1	1436.3	1291.5	1071.0	851.7	661.3	567.0	475.6
50°	1181.5	1397.0	1532.4	1596.2	1532.4	1397.0	1181.5	963.9	791.3	699.4	605.0
47.5°	1098.9	1244.7	1348.5	1415.6	1348.5	1244.7	1098.9	943.1	831.7	762.3	681.5
45°	958.8	1028.0	1071.8	1092.6	1071.8	1028.0	958.8	875.6	827.5	785.7	724.7
42.5°	974.0	1020.6	1045.6	1045.1	1045.6	1020.6	974.0	912.4	875.1	832.7	787.2
40°	1201.6	1284.4	1343.3	1358.6	1343.3	1284.4	1201.6	1111.0	1038.0	963.9	909.3
37.5°	1551.2	1631.9	1679.9	1681.7	1679.9	1631.9	1551.2	1438.0	1304.0	1170.7	1078.1
35°	1926.2	2024.2	2092.6	2080.7	2092.6	2024.2	1926.2	1788.2	1621.6	1456.2	1311.0
32.5°	2342.2	2458.0	2540.4	2555.7	2540.4	2458.0	2342.2	2190.9	1955.3	1747.4	1618.0
30°	3402.2	3585.6	3634.4	3619.8	3634.4	3585.6	3402.2	3193.8	2681.8	2502.7	2229.2
27.5°	7320.6	7654.3	7509.2	7572.2	7509.2	7654.3	7320.6	6607.8	4884.3	5059.2	3844.8
25°	13253.9	12704.3	12011.8	11496.1	12011.8	12704.3	13253.9	13412.6	13047.6	11664.7	9476.5
22.5°	24220.1	25027.4	25647.5	25699.9	25647.5	25027.4	24220.1	22540.9	21949.6	21269.7	19924.8
20°	41328.5	44115.9	46131.8	47124.5	46131.8	44115.9	41328.5	37387.2	34378.2	31463.7	30052.4
17.5°	62423.9	68893.2	72913.5	75503.6	72913.5	68893.2	62423.9	55141.0	49198.9	43981.4	40156.2
15°	88426.5	101582.0	109048.2	110134.4	109048.2	101582.0	88426.5	74871.3	64713.8	56636.0	50464.1
12.5°	122038.9	144899.1	162465.9	167885.7	162465.9	144899.1	122038.9	100913.1	80191.6	68520.1	59927.3
10°	170991.8	226569.4	303916.7	321595.9	303916.7	226569.4	170991.8	132560.9	102138.0	80538.1	67139.8
7.5°	279732.8	487174.1	707004.0	760618.2	707004.0	487174.1	279732.8	170618.3	123574.8	93692.9	75077.9
5°	467827.8	852643.7	#####	#####	#####	852643.7	467827.8	228706.5	148103.2	107314.3	81704.4
2.5°	641434.2	981487.8	#####	#####	#####	981487.8	641434.2	294503.6	167549.1	116654.0	86565.0
0°	645752.4	952978.1	#####	#####	#####	952978.1	645752.4	301672.5	174132.5	121497.5	89755.0
-2.5°	527992.5	798434.1	973059.6	#####	973059.6	798434.1	527992.5	280805.5	170127.2	120408.2	90675.8
-5°	355624.0	563627.7	717267.4	783890.6	717267.4	563627.7	355624.0	224205.1	153949.0	115649.8	91137.1
-7.5°	245643.5	340119.4	445443.4	474460.7	445443.4	340119.4	245643.5	179293.7	135862.3	108036.7	90570.4
-10°	181133.6	216892.0	254031.4	262357.8	254031.4	216892.0	181133.6	146125.9	120716.8	100541.4	89312.9
-12.5°	143894.1	163279.9	179606.4	182108.5	179606.4	163279.9	143894.1	125627.8	107157.9	97639.2	91359.0
-15°	123211.2	134083.5	141278.3	145439.8	141278.3	134083.5	123211.2	111780.4	103478.8	97550.7	93419.5
-17.5°	112434.6	117419.8	120886.3	123521.2	120886.3	117419.8	112434.6	106421.7	102564.6	98662.3	96060.2
-20°	107551.3	110122.8	112607.2	114419.3	112607.2	110122.8	107551.3	104716.0	102137.2	99655.9	96980.9



REPORT NUMBER: P699951 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3L-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	104383.2	106154.3	107700.9	109421.8	107700.9	106154.3	104383.2	102710.6	100718.9	98904.8	95942.6
-25°	100623.6	101956.8	103123.4	104291.4	103123.4	101956.8	100623.6	99397.8	97895.3	95788.7	93137.2
-27.5°	96006.7	96943.5	97631.2	98457.8	97631.2	96943.5	96006.7	95021.8	93681.1	91073.9	88321.8
-30°	90659.1	91572.7	92013.3	92700.3	92013.3	91572.7	90659.1	89302.0	87388.4	82325.1	75444.0
-32.5°	81782.4	83992.9	85373.3	86629.2	85373.3	83992.9	81782.4	78313.0	73468.0	66662.5	58362.8
-35°	65385.9	67935.8	69490.6	71123.7	69490.6	67935.8	65385.9	60967.4	54554.6	47078.7	40547.1
-37.5°	45110.9	46997.9	48038.1	49224.2	48038.1	46997.9	45110.9	41619.1	36297.3	30257.6	26430.1
-40°	28226.3	29331.9	29844.6	29718.8	29844.6	29331.9	28226.3	26490.8	23688.9	20414.6	17639.7
-42.5°	18411.2	19174.0	19737.9	20322.4	19737.9	19174.0	18411.2	17227.9	15474.2	13507.2	11623.2
-45°	11582.5	12249.5	12646.4	12712.2	12646.4	12249.5	11582.5	10738.8	9715.8	8458.8	7036.0
-47.5°	6932.4	7255.2	7528.6	7762.2	7528.6	7255.2	6932.4	6481.5	5843.0	5041.6	4144.0
-50°	3875.3	4077.2	4243.2	4370.4	4243.2	4077.2	3875.3	3591.3	3202.7	2710.1	2168.3
-52.5°	1857.5	1967.7	2056.8	2118.7	2056.8	1967.7	1857.5	1712.6	1529.9	1297.5	1038.3
-55°	810.3	845.7	874.2	893.1	874.2	845.7	810.3	761.0	697.3	609.1	515.6
-57.5°	395.2	402.3	399.3	389.5	399.3	402.3	395.2	386.2	375.6	357.8	336.2
-60°	296.1	293.6	293.9	294.5	293.9	293.6	296.1	297.3	297.4	288.0	275.1
-62.5°	245.5	244.7	246.1	247.0	246.1	244.7	245.5	244.0	240.3	228.7	212.8
-65°	169.5	169.5	170.5	171.0	170.5	169.5	169.5	168.1	165.2	158.9	150.4
-67.5°	120.4	122.1	123.2	123.5	123.2	122.1	120.4	118.0	115.0	111.2	106.9
-70°	84.1	84.9	89.8	95.0	89.8	84.9	84.1	83.1	81.7	80.1	78.2
-72.5°	65.3	66.0	66.4	66.5	66.4	66.0	65.3	64.4	63.2	61.8	60.2
-75°	47.0	47.3	47.4	47.5	47.4	47.3	47.0	46.6	46.1	45.5	44.8
-77.5°	37.2	37.6	37.9	38.0	37.9	37.6	37.2	36.5	35.7	34.7	33.5
-80°	18.7	18.9	23.6	28.5	23.6	18.9	18.7	18.4	18.1	17.7	17.7
-82.5°	9.3	9.4	9.5	9.5	9.5	9.4	9.3	9.3	9.3	9.6	11.7
-85°	2.4	0.0	0.0	0.0	0.0	0.0	2.4	4.8	7.2	9.5	9.5
-87.5°	2.4	0.0	0.0	0.0	0.0	0.0	2.4	4.7	7.0	9.2	9.1
-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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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	8.8	8.6	10.6	12.4	14.0	15.6	15.1	14.6	14.0	13.4
85°	13.7	15.6	17.2	17.4	17.7	18.3	19.0	19.0	19.0	19.0	19.0
82.5°	18.2	18.5	19.0	19.0	19.0	19.0	19.1	20.0	20.5	20.5	20.1
80°	26.2	25.6	24.9	24.2	23.4	22.5	21.9	22.9	24.4	26.1	26.8
77.5°	35.1	34.3	33.2	31.3	29.8	28.9	28.6	28.2	27.8	27.9	28.5
75°	44.0	43.1	41.6	38.8	35.2	30.8	29.3	30.9	31.8	31.7	30.6
72.5°	52.9	51.8	50.6	49.3	47.9	45.3	41.4	38.2	36.8	37.2	37.2
70°	63.6	60.9	59.1	57.6	56.0	54.2	51.5	47.5	42.3	38.5	38.0
67.5°	76.6	72.4	68.7	65.9	64.0	62.1	59.9	57.7	54.0	48.6	42.7
65°	92.3	89.2	85.7	81.8	77.7	73.2	68.4	64.9	62.3	59.3	53.6
62.5°	112.7	107.4	102.5	98.3	93.6	88.7	83.4	77.8	71.9	66.1	61.7
60°	141.8	132.7	124.2	116.6	109.8	104.1	98.3	92.1	85.7	77.9	70.8
57.5°	186.3	166.3	154.2	141.3	127.6	120.8	114.9	106.9	99.2	90.4	79.9
55°	270.0	236.3	209.4	182.2	158.4	148.0	136.7	126.6	116.9	104.7	94.0
52.5°	389.4	339.9	294.5	249.3	217.7	192.2	166.3	153.1	139.4	126.1	111.4
50°	510.4	454.5	398.4	343.5	298.9	256.4	222.4	191.2	169.8	152.9	133.5
47.5°	606.5	557.9	502.5	441.4	392.4	340.0	292.3	246.5	215.4	186.1	163.7
45°	682.2	645.1	597.7	542.8	491.9	435.3	372.5	317.9	268.2	231.2	198.7
42.5°	757.4	722.3	679.8	636.3	588.0	529.8	467.0	397.4	333.2	279.8	241.1
40°	859.3	801.1	759.8	718.4	670.4	618.2	556.9	485.4	408.2	337.7	288.3
37.5°	996.6	927.3	856.0	792.9	745.3	696.3	642.5	572.8	489.2	412.7	347.4
35°	1157.9	1053.2	969.0	884.8	816.9	769.6	718.6	655.4	577.8	499.7	413.8
32.5°	1403.4	1310.8	1108.0	999.7	913.5	846.0	786.6	727.7	671.2	589.3	497.6
30°	2008.8	1965.5	1582.5	1303.5	1174.8	956.4	856.8	818.0	757.8	678.2	581.9
27.5°	4119.8	3479.7	2928.1	2739.2	1821.1	1317.0	1047.4	928.1	852.8	764.0	666.1
25°	8993.3	7415.1	6710.9	5894.9	4122.4	2163.1	1559.0	1177.3	971.8	860.3	780.7
22.5°	16926.8	14894.6	13008.4	10699.0	8197.0	5360.5	2733.6	1540.5	1151.1	1059.8	926.9
20°	27827.9	24100.5	20939.7	17638.7	14052.7	9726.3	4922.5	2663.4	1731.1	1333.4	1105.0
17.5°	37626.4	34503.9	29592.2	25243.5	20747.4	15446.6	9552.6	4581.1	2465.1	1661.5	1309.8
15°	46543.2	43507.7	38742.0	33206.8	27787.6	21894.2	14933.4	6903.5	3589.0	2193.0	1623.3
12.5°	54198.8	50754.5	47515.2	40701.6	34692.8	28331.2	20619.8	11440.7	5507.1	3131.5	2152.1
10°	60343.2	56424.8	53129.0	47594.0	41185.1	34387.3	26231.5	15998.2	7628.5	4241.1	2758.0
7.5°	65362.3	60408.2	57489.3	53398.1	47212.6	40418.0	31752.9	20377.0	9634.7	5382.7	3411.5
5°	69186.8	63516.9	60727.7	57880.7	52561.5	46120.8	37050.2	24416.6	11479.5	6513.5	4080.8
2.5°	72374.0	66056.9	63393.1	61497.7	57218.1	51326.5	41652.0	27660.8	13226.6	7591.0	4805.6
0°	74886.1	68482.5	65917.2	64568.1	61204.8	55884.3	45195.8	29918.3	14773.9	8560.3	5472.5
-2.5°	77047.1	71030.2	68854.3	67642.6	64734.6	59523.1	47772.9	31632.0	16512.3	9629.0	5991.9
-5°	79240.7	74178.8	72268.8	70836.5	67785.7	61760.6	48902.2	32129.2	17623.9	10413.0	6388.5
-7.5°	81664.7	77589.3	75698.2	73927.4	70426.3	62803.1	48501.5	31361.1	17826.3	10626.9	6472.4
-10°	84018.3	81267.1	79318.0	76771.9	72513.5	62730.4	46647.1	29738.7	17488.6	10525.2	6391.1
-12.5°	87433.8	84849.7	82500.1	79207.0	74045.4	61115.9	43278.2	27136.8	16563.7	10067.7	6127.6
-15°	90904.9	88075.3	84582.3	80223.4	72210.2	57250.0	38806.7	22903.8	14600.0	9129.7	5666.6
-17.5°	93077.9	89981.1	85807.6	80316.5	67930.5	51021.1	33383.2	20139.5	12811.0	7931.0	4893.1
-20°	94063.6	90000.1	84849.5	75751.6	61395.6	43281.4	26383.5	17029.0	10979.9	6872.3	4257.2



REPORT NUMBER: P699951 (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°	92797.5	87764.8	80332.7	69037.7	51593.2	34790.8	21639.2	14009.9	8816.3	5599.3	3516.5
-25°	88872.4	82175.5	71795.7	56820.8	40892.4	25798.1	17383.8	11425.3	7251.5	4462.0	2725.7
-27.5°	80473.7	71438.5	58725.7	44290.8	29759.9	20494.5	13592.4	8663.5	5512.0	3483.6	2176.0
-30°	66654.9	55611.0	44100.3	31676.7	22704.7	15333.5	9919.0	6590.9	4156.3	2519.0	1596.3
-32.5°	49340.7	39762.0	29775.3	23188.0	16344.6	10786.0	7310.2	4623.2	2853.5	1860.3	1192.3
-35°	32766.1	26664.4	21042.8	15893.5	10681.7	7575.5	4986.3	3189.7	1992.4	1254.4	849.8
-37.5°	22295.4	18132.9	14306.4	10234.6	7411.8	5044.6	3370.9	2156.8	1269.9	894.0	639.2
-40°	15000.6	11910.4	9454.8	6847.9	4911.7	3253.3	2200.0	1328.7	916.1	623.4	488.8
-42.5°	9729.4	7712.1	5999.0	4428.1	3026.0	2080.7	1307.6	898.7	614.6	471.3	407.3
-45°	5936.2	4738.3	3522.1	2650.1	1770.3	1218.8	796.2	574.9	435.9	385.7	350.5
-47.5°	3412.1	2689.8	1949.6	1437.7	1008.0	664.1	509.0	376.0	359.1	334.2	309.6
-50°	1718.9	1371.6	1011.8	703.0	559.5	418.7	354.2	328.8	314.3	296.9	261.4
-52.5°	783.7	660.8	535.8	409.5	356.5	328.3	305.4	294.6	282.1	241.5	190.4
-55°	418.6	375.3	345.1	315.5	291.6	283.7	275.0	252.9	210.7	165.3	144.2
-57.5°	311.0	290.1	279.5	269.2	259.5	238.5	207.7	171.6	148.3	130.7	112.1
-60°	261.1	247.8	231.9	211.7	187.1	160.4	145.9	130.5	114.4	104.1	93.5
-62.5°	196.0	178.6	163.4	150.2	136.2	122.0	110.9	102.5	93.7	84.7	77.1
-65°	141.6	132.7	121.8	112.4	103.6	95.5	88.4	82.4	77.1	71.3	63.1
-67.5°	101.9	96.2	89.8	84.3	80.6	76.6	72.3	67.8	63.1	58.1	52.2
-70°	76.0	73.5	70.7	67.7	64.4	60.9	57.2	53.2	48.9	44.6	40.5
-72.5°	58.2	56.1	53.7	51.1	48.2	46.3	44.3	41.2	37.1	31.8	29.7
-75°	44.0	43.1	42.1	40.9	39.7	38.4	36.2	33.1	30.7	29.1	28.7
-77.5°	32.2	30.7	29.2	28.8	28.7	29.1	29.3	28.1	26.8	25.4	24.3
-80°	17.9	18.4	19.2	20.5	21.3	21.8	21.6	20.6	19.5	19.0	19.3
-82.5°	13.5	15.1	16.4	16.6	17.2	18.0	19.0	19.0	19.0	19.0	19.0
-85°	9.5	9.5	9.6	11.4	13.0	14.5	15.6	16.1	16.8	17.8	19.0
-87.5°	8.9	8.8	8.6	8.4	8.2	8.0	7.8	9.4	10.9	12.3	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



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 CATALOG NUMBER: EPH-LS-16-1200R-40-80-3L-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	12.2	11.6	10.9	10.2	9.5	8.8	8.0	7.3	6.5	5.7
85°	19.0	19.0	19.0	19.0	19.2	19.0	17.5	16.0	14.5	13.0	11.4
82.5°	19.2	19.0	19.0	19.2	20.6	21.5	21.8	21.5	20.4	19.2	17.1
80°	25.6	24.4	23.1	22.0	22.7	24.1	25.3	25.5	24.0	22.4	20.9
77.5°	28.5	28.5	28.5	27.2	26.4	26.3	27.2	28.5	27.6	25.6	23.7
75°	28.8	28.5	28.5	28.9	29.1	28.4	28.1	28.5	28.5	28.5	26.5
72.5°	35.0	32.9	30.6	29.7	31.0	31.2	30.1	28.5	28.5	28.5	28.5
70°	38.0	38.0	36.2	34.2	33.7	34.3	33.9	31.6	28.6	28.5	28.5
67.5°	38.0	38.0	38.0	38.1	36.7	36.3	37.4	35.4	32.0	28.6	28.5
65°	46.9	41.6	38.2	39.5	39.2	37.7	37.9	38.0	35.4	31.6	28.5
62.5°	55.5	48.0	43.4	41.9	41.9	40.5	38.0	38.0	38.0	34.5	30.3
60°	64.9	57.5	49.2	45.5	44.7	44.3	41.2	38.0	38.0	37.4	32.9
57.5°	72.7	67.3	59.6	50.9	46.6	46.8	45.1	40.4	38.0	38.0	35.3
55°	81.0	72.7	68.2	60.5	50.9	47.4	47.8	43.8	38.7	38.0	37.7
52.5°	96.6	82.4	73.2	68.2	59.6	49.5	48.8	47.2	41.7	38.0	38.0
50°	115.7	99.4	83.0	72.7	67.3	57.5	50.3	49.0	44.6	38.8	38.0
47.5°	139.0	119.7	100.1	80.3	71.4	64.7	55.4	51.1	47.4	41.3	38.0
45°	170.8	142.9	119.5	97.0	76.0	69.9	61.0	53.6	49.8	43.7	38.0
42.5°	205.7	172.5	141.9	114.0	90.9	75.0	66.0	57.7	52.4	46.0	39.2
40°	247.4	205.8	166.9	136.0	107.9	80.8	71.0	61.6	55.3	48.2	41.1
37.5°	291.0	243.7	198.1	158.4	125.9	96.5	76.4	64.8	57.7	50.3	42.9
35°	345.4	285.7	231.5	185.6	146.6	112.1	82.0	68.4	59.9	52.3	44.7
32.5°	400.1	331.8	271.7	216.8	167.1	127.7	92.8	73.5	62.1	54.2	46.3
30°	474.5	386.2	311.9	248.4	189.8	145.7	106.2	78.7	64.0	56.0	47.9
27.5°	562.2	442.9	353.9	283.1	217.9	163.4	118.8	84.0	65.9	57.6	49.3
25°	655.3	517.4	405.3	317.9	245.8	180.5	130.5	89.6	69.3	59.1	50.6
22.5°	764.9	598.5	457.4	351.5	271.1	197.7	143.0	99.3	73.5	60.5	51.8
20°	886.6	679.8	511.6	389.3	297.2	218.8	156.6	108.2	77.5	61.7	52.9
17.5°	1022.9	789.7	593.3	439.0	325.2	238.2	169.7	116.3	81.4	62.8	53.8
15°	1266.6	947.5	685.1	490.2	353.2	255.7	182.2	123.5	85.1	63.8	54.7
12.5°	1563.5	1120.8	781.3	541.6	380.4	271.2	193.8	129.8	88.5	65.4	55.4
10°	1886.7	1303.4	879.2	592.0	406.4	284.8	204.3	135.4	91.1	67.6	56.0
7.5°	2223.5	1488.6	975.5	640.0	431.2	294.3	211.0	140.8	93.0	69.8	56.4
5°	2579.7	1704.5	1108.9	710.2	458.2	299.7	215.3	145.4	94.2	72.1	56.7
2.5°	3005.9	1964.0	1263.1	781.2	482.8	302.9	217.7	149.2	94.8	74.1	56.9
0°	3401.3	2204.2	1406.1	845.6	503.5	304.0	218.5	152.0	95.0	76.0	57.0
-2.5°	3687.9	2355.5	1480.1	893.5	546.0	338.3	232.5	158.0	96.8	75.8	56.9
-5°	3909.8	2468.6	1532.5	930.5	582.4	368.9	244.4	162.6	98.1	75.4	56.7
-7.5°	3964.8	2486.1	1539.0	950.0	611.9	394.3	253.8	165.4	98.9	74.6	56.4
-10°	3909.2	2422.5	1485.1	915.9	597.6	399.4	259.0	166.3	99.0	73.6	56.0
-12.5°	3752.7	2305.6	1404.8	869.8	571.8	387.3	254.0	161.8	98.1	72.2	55.4
-15°	3485.6	2131.5	1296.8	811.1	542.1	372.3	245.6	154.1	95.3	70.6	54.7
-17.5°	3074.0	1896.8	1160.2	739.8	509.0	354.5	233.7	144.5	92.0	68.7	53.8
-20°	2640.8	1632.3	1008.7	655.6	473.1	334.2	218.1	133.2	88.3	66.5	52.9



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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°	2202.4	1377.6	880.1	600.5	439.4	311.6	198.4	120.1	84.0	64.0	51.8
-25°	1726.2	1107.5	745.8	539.3	410.0	288.5	178.9	105.2	79.3	61.2	50.6
-27.5°	1362.4	860.6	614.1	478.2	368.7	260.4	160.9	99.0	74.8	58.2	49.3
-30°	1040.8	715.2	532.4	421.1	327.0	224.2	141.0	92.7	71.1	56.0	47.9
-32.5°	763.8	577.0	465.7	373.9	284.9	188.0	118.8	86.0	67.1	54.2	46.3
-35°	624.1	487.6	402.3	327.2	242.7	161.9	101.4	78.9	62.8	52.3	44.7
-37.5°	488.5	421.8	352.0	281.0	200.7	134.3	93.0	72.9	58.3	50.3	42.9
-40°	422.8	364.7	305.2	235.4	166.2	105.2	84.2	67.6	55.3	48.2	41.1
-42.5°	362.9	317.7	256.7	190.1	133.1	94.6	75.3	62.0	52.8	46.0	39.2
-45°	317.8	268.6	204.8	152.4	102.6	84.0	68.8	56.6	50.2	43.7	37.4
-47.5°	270.4	209.9	160.7	116.1	90.8	74.0	62.1	53.5	47.4	41.3	35.6
-50°	204.6	160.2	124.7	97.7	79.3	66.5	56.1	50.4	44.6	38.8	33.6
-52.5°	154.0	125.8	102.0	84.8	70.2	58.7	52.5	47.2	41.7	36.2	31.3
-55°	120.6	103.7	87.8	73.1	60.9	53.8	48.9	43.8	38.7	33.5	29.0
-57.5°	100.1	87.8	73.9	61.4	54.3	49.7	45.1	40.4	35.6	30.7	28.6
-60°	82.9	71.7	59.4	53.8	49.7	45.5	41.2	36.9	32.4	28.5	28.5
-62.5°	67.6	57.5	52.5	48.9	45.1	41.2	37.3	33.3	29.2	28.5	28.5
-65°	56.4	51.1	47.2	43.8	40.4	36.9	33.3	29.6	28.5	28.5	28.4
-67.5°	47.4	43.8	41.5	38.7	35.6	32.4	29.2	28.5	28.5	28.5	28.1
-70°	37.7	35.9	35.6	33.5	30.7	28.5	28.5	28.5	28.5	27.3	27.6
-72.5°	31.0	31.3	30.3	28.5	28.5	28.5	28.5	27.8	26.3	26.0	27.0
-75°	28.6	27.9	28.0	28.5	28.5	28.3	26.1	24.2	23.8	24.5	25.0
-77.5°	24.4	25.2	26.8	27.1	25.4	23.6	21.8	20.4	21.6	22.6	22.7
-80°	20.9	21.9	22.2	21.7	20.3	19.0	19.0	19.2	20.4	20.8	20.5
-82.5°	19.1	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.4	19.1	17.1
-85°	19.0	19.0	19.0	19.0	19.0	19.0	17.5	16.0	14.5	13.0	11.4
-87.5°	12.8	12.2	11.6	10.9	10.2	9.5	8.8	8.0	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°	9.8	8.2	6.6	5.0	3.3	1.7	0.0
82.5°	14.7	12.3	9.9	7.4	5.0	2.5	0.0
80°	19.3	16.4	13.1	9.9	6.6	3.3	0.0
77.5°	21.7	19.7	16.4	12.3	8.2	4.1	0.0
75°	24.1	21.7	19.3	14.7	9.8	4.9	0.0
72.5°	26.5	23.7	20.9	17.1	11.4	5.7	0.0
70°	28.5	25.6	22.4	19.2	13.0	6.5	0.0
67.5°	28.5	27.6	24.0	20.4	14.5	7.3	0.0
65°	28.5	28.5	25.5	21.5	16.0	8.0	0.0
62.5°	28.5	28.5	27.0	22.6	17.5	8.8	0.0
60°	28.5	28.5	28.4	23.7	19.0	9.5	0.0
57.5°	30.4	28.5	28.5	24.8	19.7	10.2	0.0
55°	32.4	28.5	28.5	25.8	20.4	10.9	0.0
52.5°	34.4	28.8	28.5	26.8	21.1	11.6	0.0
50°	36.4	30.4	28.5	27.8	21.7	12.2	0.0
47.5°	38.0	32.0	28.5	28.5	22.3	12.8	0.0
45°	38.0	33.5	28.5	28.5	22.9	13.4	0.0
42.5°	38.0	34.9	28.5	28.5	23.5	14.0	0.0
40°	38.0	36.3	29.0	28.5	24.0	14.6	0.0
37.5°	38.0	37.6	30.1	28.5	24.6	15.1	0.0
35°	38.0	38.0	31.1	28.5	25.1	15.6	0.0
32.5°	38.4	38.0	32.0	28.5	25.5	16.0	0.0
30°	39.7	38.0	32.9	28.5	25.9	16.5	0.0
27.5°	40.9	38.0	33.7	28.5	26.3	16.9	0.0
25°	42.1	38.0	34.4	28.5	26.7	17.2	0.0
22.5°	43.1	38.0	35.1	28.5	27.1	17.6	0.0
20°	44.0	38.0	35.7	28.5	27.4	17.9	0.0
17.5°	44.8	38.0	36.2	28.5	27.6	18.1	0.0
15°	45.5	38.0	36.7	28.5	27.9	18.4	0.0
12.5°	46.1	38.0	37.1	28.5	28.0	18.5	0.0
10°	46.6	38.0	37.4	28.5	28.2	18.7	0.0
7.5°	47.0	38.0	37.7	28.5	28.3	18.8	0.0
5°	47.3	38.0	37.9	28.5	28.4	18.9	0.0
2.5°	47.4	38.0	38.0	28.5	28.5	19.0	0.0
0°	47.5	38.0	38.0	28.5	28.5	19.0	0.0
-2.5°	47.4	38.0	38.0	28.5	28.5	19.0	0.0
-5°	47.3	38.0	37.9	28.5	28.4	18.9	0.0
-7.5°	47.0	38.0	37.7	28.5	28.3	18.8	0.0
-10°	46.6	38.0	37.4	28.5	28.2	18.7	0.0
-12.5°	46.1	38.0	37.1	28.5	28.0	18.5	0.0
-15°	45.5	38.0	36.7	28.5	27.9	18.4	0.0
-17.5°	44.8	38.0	36.2	28.5	27.6	18.1	0.0
-20°	44.0	38.0	35.7	28.5	27.4	17.9	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	43.1	38.0	35.1	28.5	27.1	17.6	0.0
-25°	42.1	37.8	34.4	28.5	26.7	17.2	0.0
-27.5°	40.9	37.5	33.7	28.5	26.3	16.9	0.0
-30°	39.7	37.1	32.9	28.5	25.9	16.5	0.0
-32.5°	38.4	36.6	31.9	28.5	25.5	16.0	0.0
-35°	37.6	36.0	30.9	28.5	25.1	15.6	0.0
-37.5°	36.9	35.1	29.9	28.5	24.6	15.1	0.0
-40°	36.1	33.9	29.0	28.5	24.0	14.6	0.0
-42.5°	35.0	32.6	28.5	28.5	23.5	14.0	0.0
-45°	33.7	31.5	28.5	28.5	22.9	13.4	0.0
-47.5°	32.3	30.5	28.5	28.5	22.3	12.8	0.0
-50°	31.2	29.5	28.5	27.8	21.7	12.2	0.0
-52.5°	30.3	28.6	28.5	26.8	21.1	11.6	0.0
-55°	29.5	28.5	28.5	25.8	20.4	10.9	0.0
-57.5°	28.9	28.5	28.5	24.8	19.7	10.2	0.0
-60°	28.5	28.5	28.4	23.7	19.0	9.5	0.0
-62.5°	28.5	28.5	27.0	22.6	17.5	8.8	0.0
-65°	28.5	28.5	25.5	21.5	16.0	8.0	0.0
-67.5°	28.5	27.6	24.0	20.4	14.5	7.3	0.0
-70°	28.5	25.6	22.4	19.2	13.0	6.5	0.0
-72.5°	26.5	23.7	20.9	17.1	11.4	5.7	0.0
-75°	24.1	21.7	19.3	14.7	9.8	4.9	0.0
-77.5°	21.7	19.7	16.4	12.3	8.2	4.1	0.0
-80°	19.3	16.4	13.1	9.9	6.6	3.3	0.0
-82.5°	14.7	12.3	9.9	7.4	5.0	2.5	0.0
-85°	9.8	8.2	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)