

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: P699938 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-70-3L-S**

Issue Date: 8/10/2023

Test Information

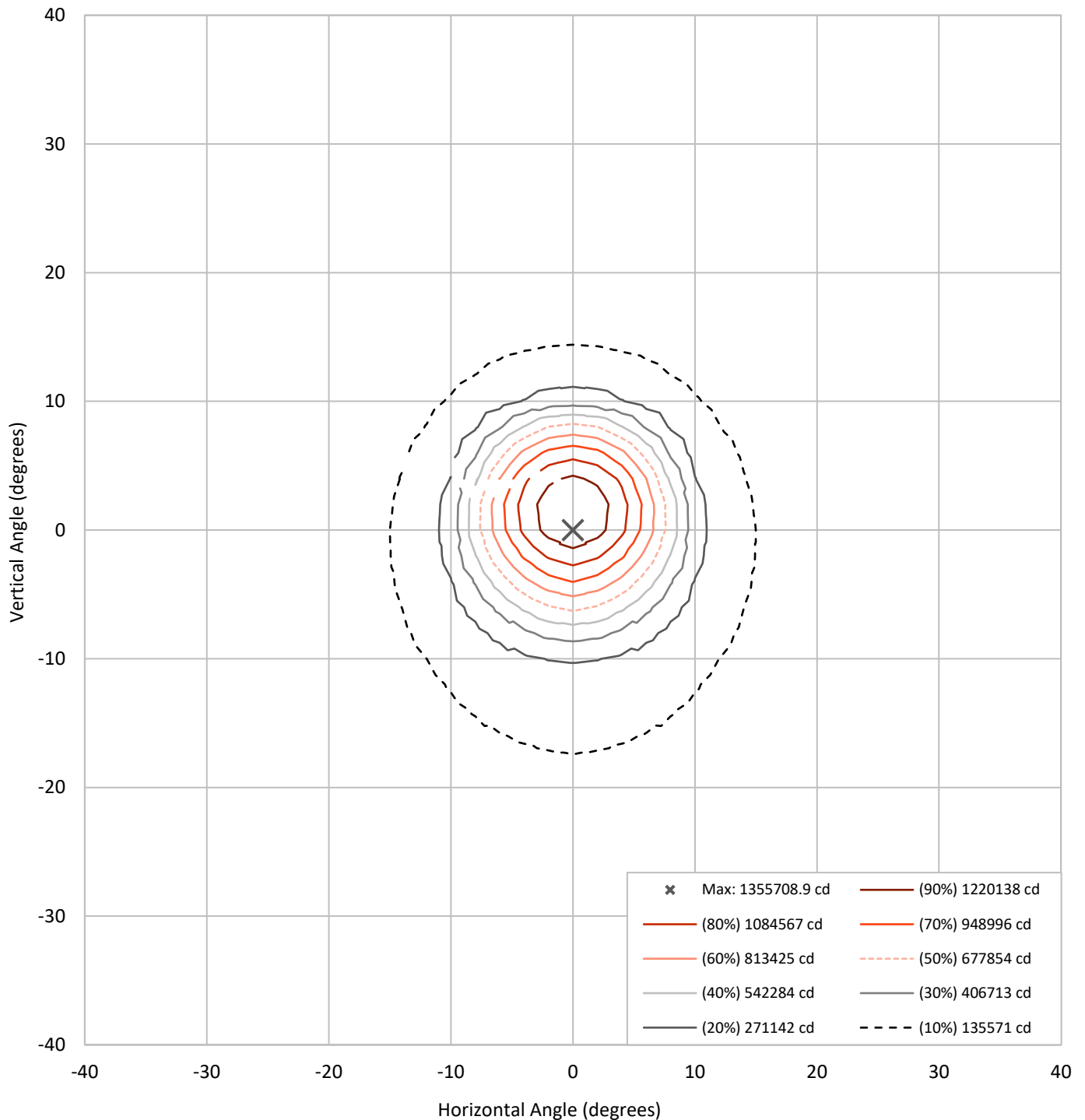
Test Method: LM-79-08
Report Number: P699938 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-54)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200R-40-70-3L-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 70 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:	177615.4 lumens	Max Intensity:	1355708.9 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%):	15.2°H x 14.5°V	Field Angle (10%):	29.6°H x 31.5°V
Beam Lumens:	49521.6 lumens	Field Lumens:	98828.5 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





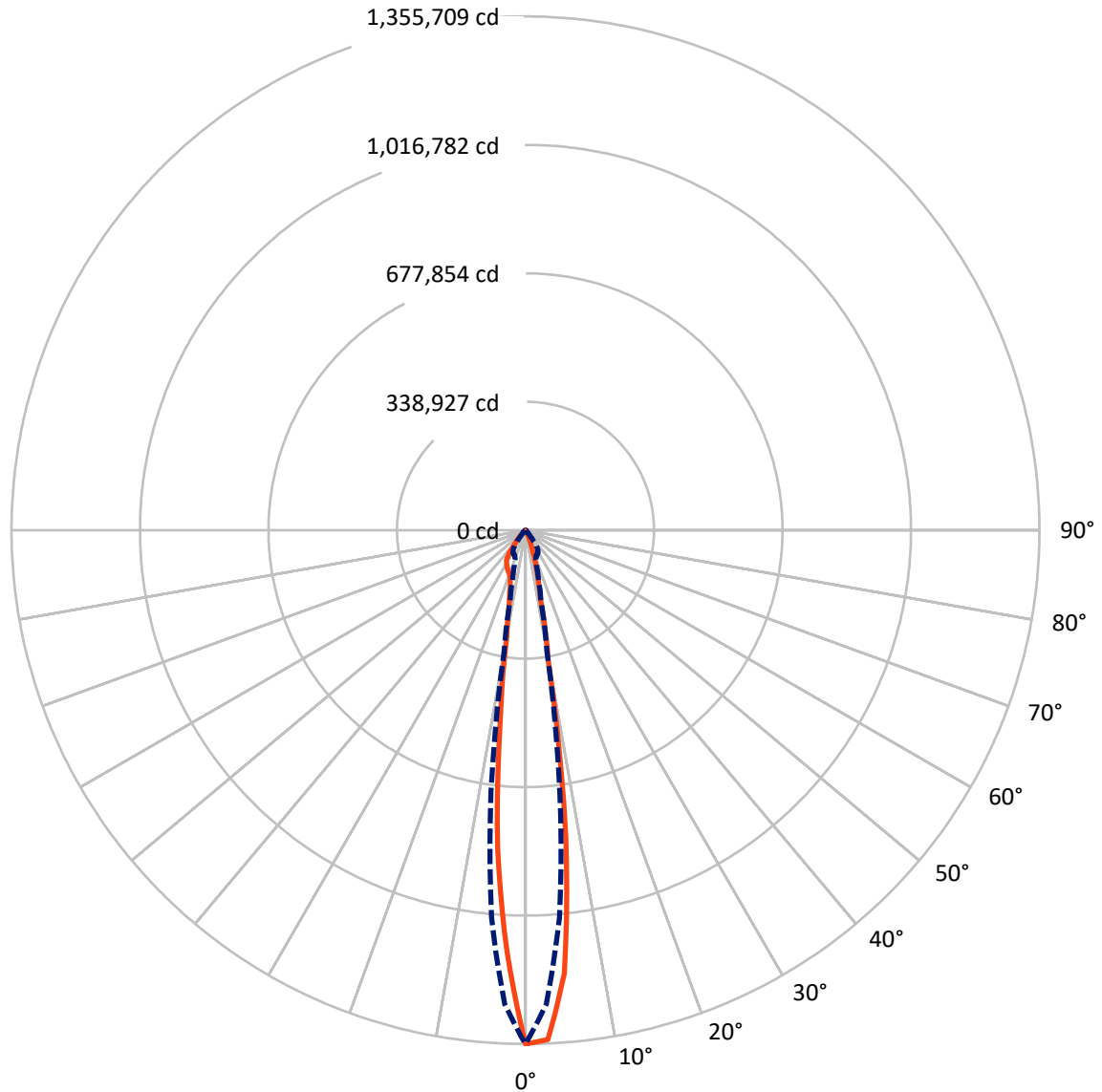
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Lumen Table

90	0.3	1.4		2.5		3.5		3.9		3.5		2.5		1.4		0.3
80	0.3	1.4		2.5		3.5		3.9		3.5		2.5		1.4		0.3
70	0.6	0.5	0.8	1.2	1.9	2.6	3.3	3.8	3.8	3.3	2.6	1.9	1.2	0.8	0.5	0.6
60		0.6	1.1	2.3	3.9	6.9	13.3	27.9	27.9	13.3	6.9	3.9	2.3	1.1	0.6	
50	0.8	0.8	2.0	4.8	10.3	17.5	25.5	37.1	37.1	25.5	17.5	10.3	4.8	2.0	0.8	0.8
40		1.0	3.7	10.0	19.2	31.0	48.9	68.7	68.7	48.9	31.0	19.2	10.0	3.7	1.0	
30	1.0	1.5	6.3	18.6	69.5	251.4	429.1	556.8	556.8	429.1	251.4	69.5	18.6	6.3	1.5	1.0
20		2.0	10.3	47.3	416.1	1117.5	1854.6	3625.4	3625.4	1854.6	1117.5	416.1	47.3	10.3	2.0	
10	1.0	2.3	16.0	117.1	935.7	1791.3	3795.4	22008.3	22008.3	3795.4	1791.3	935.7	117.1	16.0	2.3	1.0
0		2.6	21.2	176.7	1235.6	2161.6	4044.9	17678.4	17678.4	4044.9	2161.6	1235.6	176.7	21.2	2.6	
-10	1.0	2.6	18.7	155.4	1084.6	2453.7	3182.2	4655.9	4655.9	3182.2	2453.7	1084.6	155.4	18.7	2.6	1.0
-20		2.0	11.6	79.4	551.6	1988.2	2959.8	3308.2	3308.2	2959.8	1988.2	551.6	79.4	11.6	2.0	
-30	0.8	1.3	6.3	25.5	164.8	701.5	1543.7	2098.1	2098.1	1543.7	701.5	164.8	25.5	6.3	1.3	0.8
-40		0.9	3.1	8.6	30.0	128.5	305.7	446.8	446.8	305.7	128.5	30.0	8.6	3.1	0.9	
-50	0.6	0.6	1.5	3.7	7.1	13.5	29.5	43.7	43.7	29.5	13.5	7.1	3.7	1.5	0.6	0.6
-60		0.4	0.8	1.5	2.5	3.9	5.4	5.9	5.9	5.4	3.9	2.5	1.5	0.8	0.4	
-70	0.3	0.3	1.3	2.4	3.4	3.4	3.7	3.4	3.4	2.4	1.3	0.3	0.3	1.3	0.3	0.3
-80		0.3	1.3	2.4	3.4	3.4	3.7	3.4	3.4	2.4	1.3	0.3	0.3	1.3	0.3	
-90	0.3	1.3		2.4		3.4		3.7		3.4		2.4		1.3		0.3

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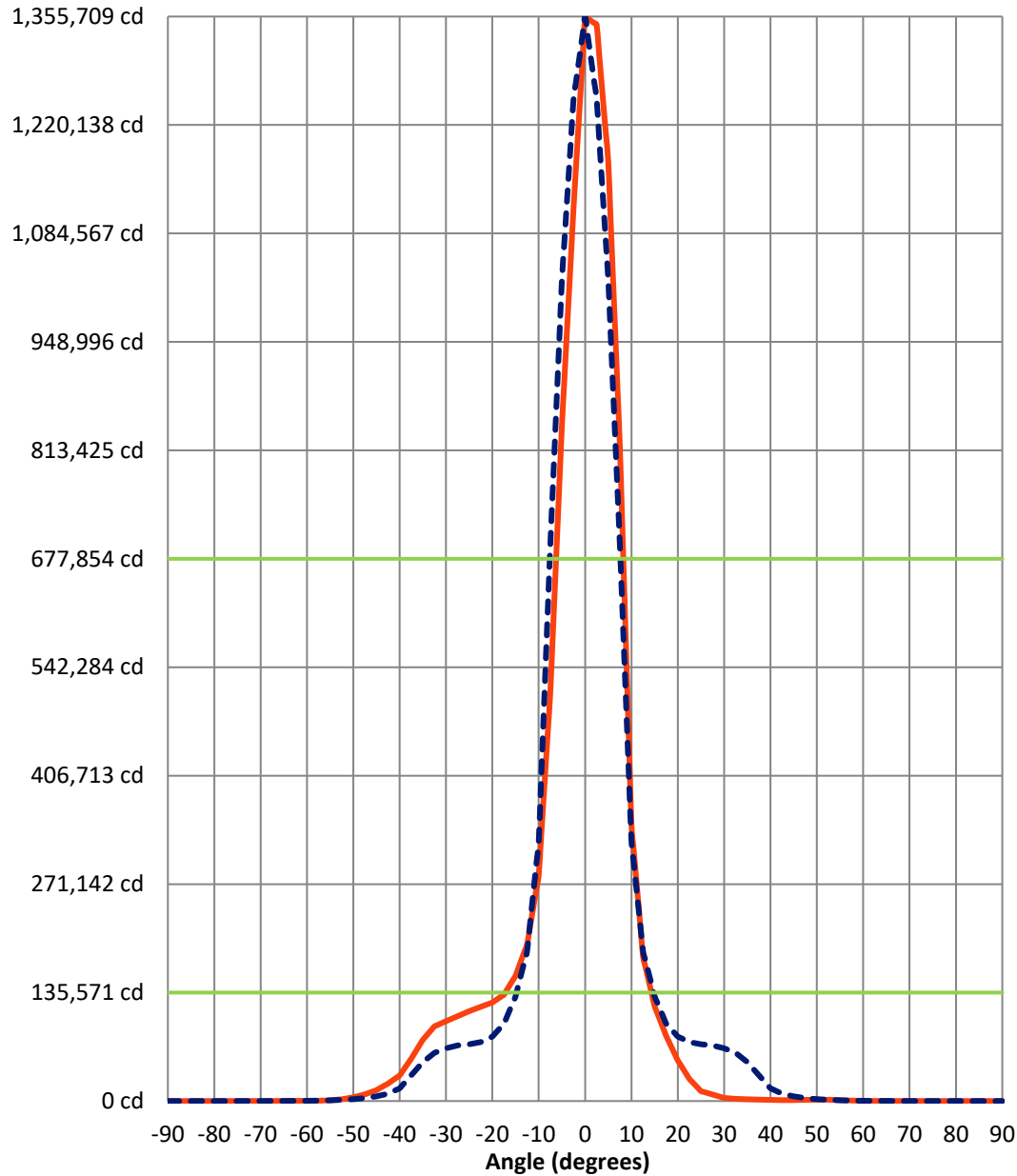
Luminous Intensity Polar Plot



— 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: 49521.6
 Efficiency: 27.9%

Field:
 H Angle: 29.6°
 V Angle: 31.5°
 Lumens: 98828.5
 Efficiency: 55.6%

Spill:
 Lumens: 78786.9
 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	0.9	1.8	2.7	3.6	4.4	5.3	6.2	7.0	7.8	8.7
85°	0.0	1.8	3.6	5.3	7.1	8.9	10.6	12.3	14.0	15.7	17.3
82.5°	0.0	2.7	5.3	8.0	10.6	13.3	15.9	18.4	20.7	22.0	23.2
80°	0.0	3.6	7.1	10.6	14.2	17.7	20.8	22.5	24.2	25.8	27.5
77.5°	0.0	4.4	8.9	13.3	17.7	21.3	23.4	25.5	27.6	29.7	30.7
75°	0.0	5.3	10.6	15.9	20.8	23.4	26.0	28.5	30.7	30.7	30.7
72.5°	0.0	6.2	12.3	18.4	22.5	25.5	28.5	30.7	30.7	30.7	30.7
70°	0.0	7.0	14.0	20.7	24.2	27.6	30.7	30.7	30.7	30.8	34.0
67.5°	0.0	7.8	15.7	22.0	25.8	29.7	30.7	30.7	30.8	34.5	38.1
65°	0.0	8.7	17.3	23.2	27.5	30.7	30.7	30.7	34.0	38.1	40.9
62.5°	0.0	9.5	18.9	24.4	29.1	30.7	30.7	32.7	37.2	40.9	40.9
60°	0.0	10.2	20.5	25.6	30.6	30.7	30.7	35.4	40.3	40.9	40.9
57.5°	0.0	11.0	21.3	26.7	30.7	30.7	32.7	38.0	40.9	40.9	43.5
55°	0.0	11.8	22.0	27.8	30.7	30.7	34.9	40.6	40.9	41.6	47.2
52.5°	0.0	12.5	22.7	28.9	30.7	31.0	37.1	40.9	40.9	44.9	50.8
50°	0.0	13.2	23.4	29.9	30.7	32.7	39.2	40.9	41.7	48.1	52.9
47.5°	0.0	13.8	24.1	30.7	30.7	34.4	40.9	40.9	44.4	51.1	55.1
45°	0.0	14.5	24.7	30.7	30.7	36.0	40.9	40.9	47.1	53.7	57.8
42.5°	0.0	15.1	25.3	30.7	30.7	37.6	40.9	42.2	49.6	56.5	62.2
40°	0.0	15.7	25.9	30.7	31.3	39.0	40.9	44.3	52.0	59.6	66.3
37.5°	0.0	16.3	26.5	30.7	32.4	40.4	40.9	46.3	54.2	62.1	69.8
35°	0.0	16.8	27.0	30.7	33.5	40.9	40.9	48.2	56.4	64.5	73.7
32.5°	0.0	17.3	27.5	30.7	34.5	40.9	41.3	49.9	58.4	66.8	79.2
30°	0.0	17.8	28.0	30.7	35.4	40.9	42.8	51.6	60.3	69.0	84.8
27.5°	0.0	18.2	28.4	30.7	36.3	40.9	44.1	53.1	62.1	71.0	90.5
25°	0.0	18.6	28.8	30.7	37.0	40.9	45.3	54.5	63.7	74.6	96.5
22.5°	0.0	18.9	29.1	30.7	37.8	40.9	46.4	55.8	65.2	79.1	106.9
20°	0.0	19.3	29.5	30.7	38.4	40.9	47.4	57.0	66.5	83.5	116.6
17.5°	0.0	19.6	29.8	30.7	39.0	40.9	48.3	58.0	67.7	87.7	125.2
15°	0.0	19.8	30.0	30.7	39.5	40.9	49.0	58.9	68.7	91.6	133.0
12.5°	0.0	20.0	30.2	30.7	39.9	40.9	49.7	59.7	70.4	95.3	139.8
10°	0.0	20.2	30.4	30.7	40.3	40.9	50.2	60.3	72.8	98.1	145.8
7.5°	0.0	20.3	30.5	30.7	40.5	40.9	50.7	60.8	75.2	100.1	151.6
5°	0.0	20.4	30.6	30.7	40.7	40.9	51.0	61.1	77.6	101.4	156.6
2.5°	0.0	20.5	30.7	30.7	40.9	40.9	51.1	61.3	79.8	102.1	160.7
0°	0.0	20.5	30.7	30.7	40.9	40.9	51.2	61.4	81.8	102.3	163.7
-2.5°	0.0	20.5	30.7	30.7	40.9	40.9	51.1	61.3	81.6	104.2	170.2
-5°	0.0	20.4	30.6	30.7	40.7	40.9	51.0	61.1	81.2	105.6	175.1
-7.5°	0.0	20.3	30.5	30.7	40.5	40.9	50.7	60.8	80.3	106.4	178.2
-10°	0.0	20.2	30.4	30.7	40.3	40.9	50.2	60.3	79.2	106.5	179.1
-12.5°	0.0	20.0	30.2	30.7	39.9	40.9	49.7	59.7	77.8	105.6	174.3
-15°	0.0	19.8	30.0	30.7	39.5	40.9	49.0	58.9	76.0	102.6	165.9
-17.5°	0.0	19.6	29.8	30.7	39.0	40.9	48.3	58.0	73.9	99.1	155.6
-20°	0.0	19.3	29.5	30.7	38.4	40.9	47.4	57.0	71.6	95.0	143.4



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 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3L-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	18.9	29.1	30.7	37.8	40.9	46.4	55.8	68.9	90.5	129.3
-25°	0.0	18.6	28.8	30.7	37.0	40.7	45.3	54.5	66.0	85.4	113.2
-27.5°	0.0	18.2	28.4	30.7	36.3	40.4	44.1	53.1	62.7	80.5	106.6
-30°	0.0	17.8	28.0	30.7	35.4	40.0	42.8	51.6	60.3	76.5	99.8
-32.5°	0.0	17.3	27.5	30.7	34.3	39.5	41.3	49.9	58.4	72.2	92.6
-35°	0.0	16.8	27.0	30.7	33.3	38.8	40.5	48.2	56.4	67.7	84.9
-37.5°	0.0	16.3	26.5	30.7	32.2	37.8	39.8	46.3	54.2	62.8	78.5
-40°	0.0	15.7	25.9	30.7	31.2	36.4	38.8	44.3	52.0	59.6	72.7
-42.5°	0.0	15.1	25.3	30.7	30.7	35.1	37.7	42.2	49.6	56.9	66.7
-45°	0.0	14.5	24.7	30.7	30.7	33.9	36.3	40.2	47.1	54.1	60.9
-47.5°	0.0	13.8	24.1	30.7	30.7	32.8	34.8	38.3	44.4	51.1	57.7
-50°	0.0	13.2	23.4	29.9	30.7	31.8	33.6	36.2	41.7	48.1	54.3
-52.5°	0.0	12.5	22.7	28.9	30.7	30.8	32.6	33.7	38.9	44.9	50.8
-55°	0.0	11.8	22.0	27.8	30.7	30.7	31.8	31.2	36.1	41.6	47.2
-57.5°	0.0	11.0	21.3	26.7	30.7	30.7	31.2	30.8	33.1	38.3	43.5
-60°	0.0	10.2	20.5	25.6	30.6	30.7	30.7	30.7	30.7	34.9	39.7
-62.5°	0.0	9.5	18.9	24.4	29.1	30.7	30.7	30.7	30.7	31.4	35.8
-65°	0.0	8.7	17.3	23.2	27.5	30.7	30.7	30.6	30.7	30.7	31.9
-67.5°	0.0	7.8	15.7	22.0	25.8	29.7	30.7	30.2	30.7	30.7	30.7
-70°	0.0	7.0	14.0	20.7	24.2	27.6	30.7	29.7	29.5	30.7	30.7
-72.5°	0.0	6.2	12.3	18.4	22.5	25.5	28.5	29.1	28.0	28.3	30.0
-75°	0.0	5.3	10.6	15.9	20.8	23.4	26.0	27.0	26.4	25.7	26.1
-77.5°	0.0	4.4	8.9	13.3	17.7	21.3	23.4	24.5	24.4	23.2	22.0
-80°	0.0	3.6	7.1	10.6	14.2	17.7	20.8	22.1	22.4	22.0	20.7
-82.5°	0.0	2.7	5.3	8.0	10.6	13.3	15.9	18.4	20.6	20.9	20.6
-85°	0.0	1.8	3.6	5.3	7.1	8.9	10.6	12.3	14.0	15.7	17.3
-87.5°	0.0	0.9	1.8	2.7	3.6	4.4	5.3	6.2	7.0	7.8	8.7
-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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 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3L-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°	9.5	10.2	11.0	11.8	12.5	13.2	13.8	14.5	15.1	15.7	16.3
85°	18.9	20.5	20.7	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
82.5°	23.5	23.1	22.2	20.7	20.5	20.5	20.7	21.7	22.2	22.1	21.6
80°	27.2	25.9	24.5	23.7	24.9	26.2	27.6	28.9	28.1	26.3	24.7
77.5°	29.3	28.4	28.4	29.3	30.7	30.7	30.7	30.7	30.1	29.9	30.4
75°	30.3	30.6	31.4	31.1	30.7	30.7	31.0	32.9	34.2	34.2	33.3
72.5°	32.4	33.6	33.4	32.0	32.9	35.4	37.7	40.0	40.0	39.6	41.2
70°	36.5	36.9	36.3	36.9	38.9	40.9	40.9	40.9	41.4	45.5	51.2
67.5°	40.3	39.1	39.5	41.1	40.9	40.9	40.9	46.0	52.4	58.2	62.1
65°	40.8	40.6	42.2	42.5	41.1	44.7	50.5	57.7	63.8	67.1	69.9
62.5°	40.9	43.7	45.1	45.2	46.7	51.8	59.8	66.4	71.2	77.5	83.8
60°	44.4	47.8	48.1	49.1	53.0	61.9	69.9	76.2	83.9	92.3	99.2
57.5°	48.6	50.4	50.2	54.9	64.2	72.5	78.3	86.0	97.3	106.8	115.1
55°	51.5	51.1	54.9	65.1	73.4	78.3	87.2	101.2	112.7	125.9	136.3
52.5°	52.6	53.4	64.2	73.4	78.7	88.7	104.0	119.9	135.8	150.1	164.8
50°	54.2	62.0	72.4	78.3	89.4	107.0	124.6	143.8	164.7	182.9	206.0
47.5°	59.7	69.7	76.8	86.4	107.8	128.9	149.7	176.3	200.5	232.0	265.5
45°	65.7	75.3	81.8	104.4	128.7	153.9	184.0	214.1	249.0	288.8	342.4
42.5°	71.0	80.7	97.9	122.8	152.8	185.7	221.6	259.7	301.4	358.9	428.0
40°	76.4	87.0	116.2	146.5	179.7	221.6	266.4	310.5	363.7	439.7	522.7
37.5°	82.2	103.9	135.6	170.6	213.3	262.4	313.4	374.2	444.5	526.8	616.8
35°	88.4	120.7	157.8	199.8	249.3	307.6	372.0	445.7	538.1	622.2	705.8
32.5°	99.9	137.5	179.9	233.5	292.6	357.3	431.0	535.8	634.5	722.8	783.6
30°	114.4	156.8	204.4	267.5	335.9	415.9	511.0	626.6	730.3	816.0	880.9
27.5°	127.9	176.0	234.7	304.9	381.1	477.0	605.4	717.2	822.7	918.4	999.4
25°	140.5	194.4	264.7	342.4	436.5	557.2	705.6	840.6	926.4	1046.5	1267.8
22.5°	154.0	212.9	291.9	378.5	492.6	644.5	823.7	998.2	1141.3	1239.6	1658.9
20°	168.7	235.7	320.1	419.2	551.0	732.0	954.7	1189.9	1435.9	1864.1	2868.1
17.5°	182.8	256.5	350.3	472.8	639.0	850.4	1101.5	1410.6	1789.2	2654.6	4933.2
15°	196.2	275.4	380.4	527.9	737.8	1020.4	1364.0	1748.1	2361.5	3864.9	7434.2
12.5°	208.7	292.1	409.7	583.2	841.4	1206.9	1683.7	2317.6	3372.2	5930.5	12320.1
10°	220.1	306.7	437.7	637.5	946.8	1403.6	2031.8	2970.0	4567.1	8214.8	17228.0
7.5°	227.2	317.0	464.4	689.2	1050.5	1603.0	2394.5	3673.8	5796.5	10375.3	21943.3
5°	231.8	322.8	493.5	764.7	1194.2	1835.5	2778.0	4394.5	7014.2	12361.9	26293.5
2.5°	234.5	326.2	520.0	841.2	1360.2	2115.0	3237.0	5175.1	8174.4	14243.3	29787.1
0°	235.3	327.4	542.3	910.6	1514.2	2373.6	3662.8	5893.2	9218.3	15909.6	32218.1
-2.5°	250.4	364.4	588.1	962.2	1593.9	2536.6	3971.4	6452.5	10369.2	17781.6	34063.5
-5°	263.2	397.3	627.2	1002.0	1650.2	2658.5	4210.3	6879.5	11213.5	18978.6	34599.0
-7.5°	273.3	424.6	658.9	1023.0	1657.3	2677.3	4269.6	6969.8	11443.8	19196.6	33771.9
-10°	278.9	430.1	643.5	986.4	1599.3	2608.7	4209.7	6882.3	11334.2	18832.9	32024.7
-12.5°	273.5	417.1	615.8	936.6	1512.8	2482.8	4041.1	6598.5	10841.5	17836.9	29222.8
-15°	264.6	401.0	583.8	873.5	1396.5	2295.3	3753.5	6102.1	9831.5	15722.3	24664.4
-17.5°	251.7	381.8	548.2	796.6	1249.4	2042.5	3310.3	5269.1	8540.6	13795.7	21687.5
-20°	234.9	360.0	509.5	706.0	1086.2	1757.8	2843.7	4584.3	7400.5	11824.0	18337.9



REPORT NUMBER: P699938 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3L-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	213.7	335.6	473.2	646.6	947.8	1483.5	2371.6	3786.7	6029.7	9494.1	15086.8
-25°	192.6	310.7	441.5	580.7	803.1	1192.7	1858.9	2935.2	4804.9	7809.0	12303.5
-27.5°	173.3	280.5	397.1	515.0	661.3	926.8	1467.1	2343.2	3751.3	5935.7	9329.5
-30°	151.8	241.5	352.2	453.5	573.3	770.1	1120.8	1719.0	2712.6	4475.7	7097.5
-32.5°	127.9	202.5	306.8	402.7	501.5	621.3	822.5	1283.9	2003.3	3072.8	4978.6
-35°	109.1	174.3	261.4	352.4	433.2	525.1	672.1	915.1	1350.8	2145.5	3434.9
-37.5°	100.1	144.6	216.1	302.6	379.1	454.3	526.0	688.3	962.6	1367.6	2322.7
-40°	90.6	113.3	179.0	253.6	328.7	392.8	455.3	526.3	671.3	986.5	1430.9
-42.5°	81.0	101.8	143.3	204.7	276.5	342.1	390.9	438.6	507.5	661.7	967.8
-45°	74.1	90.5	110.4	164.1	220.6	289.3	342.2	377.5	415.4	469.4	619.1
-47.5°	66.9	79.7	97.7	125.0	173.0	226.1	291.2	333.4	359.9	386.7	404.9
-50°	60.4	71.6	85.4	105.2	134.3	172.5	220.4	281.5	319.8	338.5	354.1
-52.5°	56.6	63.2	75.6	91.3	109.8	135.5	165.9	205.1	260.1	303.8	317.3
-55°	52.7	58.0	65.5	78.7	94.5	111.7	129.9	155.3	178.0	226.9	272.3
-57.5°	48.6	53.6	58.5	66.1	79.6	94.6	107.9	120.7	140.7	159.7	184.7
-60°	44.4	49.0	53.6	58.0	64.0	77.2	89.3	100.8	112.1	123.2	140.6
-62.5°	40.1	44.4	48.6	52.7	56.6	62.0	72.8	83.0	91.3	100.9	110.4
-65°	35.8	39.7	43.5	47.2	50.8	55.0	60.7	67.9	76.7	83.0	88.7
-67.5°	31.4	34.9	38.3	41.6	44.7	47.2	51.1	56.3	62.5	67.9	73.0
-70°	30.7	30.7	33.1	36.1	38.3	38.7	40.6	43.7	48.1	52.7	57.3
-72.5°	30.7	30.7	30.7	30.7	32.7	33.7	33.4	32.0	34.3	39.9	44.4
-75°	28.1	30.4	30.7	30.7	30.1	30.0	30.8	30.9	31.3	33.1	35.6
-77.5°	23.5	25.4	27.3	29.2	28.9	27.2	26.3	26.2	27.4	28.8	30.2
-80°	20.5	20.5	21.9	23.4	24.0	23.6	22.6	20.9	20.5	21.1	22.2
-82.5°	20.5	20.5	20.5	20.5	20.5	20.5	20.6	20.5	20.5	20.5	20.5
-85°	18.9	20.5	20.5	20.5	20.5	20.5	20.5	20.5	19.2	18.1	17.3
-87.5°	9.5	10.2	11.0	11.8	12.5	13.2	13.8	14.5	13.2	11.8	10.2
-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: P699938 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3L-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°	16.8	15.1	13.3	11.4	9.3	9.4	9.6	9.7	9.9	7.5	5.0
85°	20.5	19.7	19.1	18.8	18.6	16.8	14.8	12.6	10.3	10.1	10.0
82.5°	20.6	20.5	20.5	20.5	20.5	20.0	19.6	19.4	19.5	19.8	20.0
80°	23.6	24.3	25.2	26.1	26.8	27.6	28.2	28.8	29.3	29.7	30.1
77.5°	30.8	31.1	32.1	33.7	35.8	37.0	37.8	38.5	39.1	39.7	40.1
75°	31.6	33.1	37.9	41.7	44.8	46.4	47.4	48.3	49.0	49.7	50.2
72.5°	44.6	48.8	51.6	53.1	54.5	55.8	57.0	58.0	58.9	59.7	60.3
70°	55.5	58.4	60.3	62.1	63.7	65.6	68.4	71.7	75.3	77.8	79.2
67.5°	64.5	66.8	69.0	71.0	74.0	78.0	82.5	85.9	88.4	91.0	94.3
65°	73.7	78.8	83.6	88.1	92.3	96.0	99.4	102.5	105.1	107.7	109.9
62.5°	89.8	95.5	100.8	105.8	110.4	115.6	121.3	126.4	130.8	135.3	140.8
60°	105.8	112.0	118.3	125.5	133.8	142.8	152.7	163.3	174.6	186.1	195.9
57.5°	123.8	130.1	137.4	152.1	166.1	179.1	200.6	231.4	264.9	302.3	367.8
55°	147.2	159.4	170.5	196.2	225.6	254.4	290.7	353.2	423.4	498.6	660.6
52.5°	179.1	207.0	234.5	268.5	317.2	366.1	419.4	512.2	610.6	712.1	917.1
50°	239.6	276.1	321.9	370.0	429.1	489.4	549.5	651.4	753.1	852.1	1038.0
47.5°	314.8	366.2	422.6	475.4	541.1	600.8	653.0	733.9	820.9	895.6	1015.6
45°	401.3	468.9	529.8	584.5	643.6	694.6	734.6	780.4	846.1	891.1	942.9
42.5°	503.0	570.6	633.2	685.1	732.0	777.8	815.6	847.6	896.7	942.4	982.5
40°	599.7	665.6	721.9	773.6	818.2	862.7	925.3	979.2	1038.0	1117.7	1196.4
37.5°	691.9	749.8	802.5	853.9	921.8	998.6	1073.2	1161.0	1260.6	1404.3	1548.5
35°	773.8	828.7	879.7	952.7	1043.5	1134.2	1246.9	1411.8	1568.2	1746.3	1925.7
32.5°	847.1	911.1	983.7	1076.5	1193.2	1411.6	1511.2	1742.4	1881.7	2105.6	2359.3
30°	922.7	1029.9	1265.1	1403.7	1704.2	2116.6	2163.1	2400.5	2695.1	2888.0	3439.4
27.5°	1127.9	1418.2	1961.0	2949.7	3153.2	3747.1	4436.5	4140.4	5448.2	5259.8	7115.7
25°	1678.9	2329.3	4439.3	6348.0	7226.7	7985.1	9684.6	10204.9	12561.4	14050.6	14443.6
22.5°	2943.7	5772.6	8827.1	11521.4	14008.3	16039.5	18228.0	21456.4	22904.7	23636.8	24273.6
20°	5300.8	10474.0	15132.9	18994.6	22549.4	25953.2	29967.0	32362.5	33882.3	37020.8	40261.2
17.5°	10286.9	16634.0	22342.2	27184.0	31867.0	37156.2	40518.7	43242.9	47362.2	52980.7	59379.6
15°	16081.4	23577.2	29923.6	35759.4	41720.1	46852.1	50120.9	54343.3	60989.6	69688.3	80626.6
12.5°	22204.9	30509.0	37359.6	43830.3	51167.7	54655.9	58365.0	64533.9	73787.2	86355.9	108670.3
10°	28247.9	37030.7	44351.0	51252.5	57213.0	60762.2	64981.7	72300.8	86729.0	109989.2	142750.8
7.5°	34193.7	43524.9	50841.9	57502.8	61908.4	65051.7	70386.6	80849.1	100895.1	133073.9	183733.5
5°	39898.1	49666.1	56601.9	62329.9	65395.8	68399.4	74505.1	87984.9	115563.5	159487.7	246287.0
2.5°	44853.7	55271.9	61616.4	66225.0	68266.0	71134.6	77937.3	93219.2	125621.0	180428.4	317141.7
0°	48669.9	60180.1	65909.5	69531.4	70984.2	73746.7	80642.5	96654.4	130836.9	187517.9	324861.8
-2.5°	51445.1	64098.6	69710.6	72842.3	74147.1	76490.3	82969.7	97645.9	129663.9	183204.7	302390.8
-5°	52661.2	66508.1	72996.3	76281.6	77824.0	79880.9	85331.9	98142.7	124539.7	165782.9	241439.5
-7.5°	52229.8	67630.7	75839.8	79610.1	81517.1	83553.6	87942.2	97532.4	116341.4	146306.0	193075.8
-10°	50232.8	67552.4	78087.5	82673.2	85415.1	87514.0	90476.7	96178.3	108269.9	129996.2	157358.5
-12.5°	46605.0	65813.8	79737.1	85295.5	88841.8	91372.1	94154.7	98381.7	105144.6	115395.0	135284.6
-15°	41789.8	61650.7	77760.9	86390.0	91084.1	94845.6	97892.6	100600.6	105049.3	111433.1	120372.8
-17.5°	35949.3	54943.1	73152.3	86490.3	92403.6	96897.9	100232.7	103444.2	106246.4	110448.6	114602.3
-20°	28411.6	46608.5	66115.0	81574.5	91371.8	96918.3	101294.1	104435.7	107316.4	109988.4	112765.4



REPORT NUMBER: P699938 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3L-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	23302.6	37465.2	55559.2	74344.5	86507.8	94511.2	99930.7	103317.7	106507.5	108461.1	110605.8
-25°	18720.1	27781.1	44035.8	61188.6	77314.6	88492.3	95704.0	100296.6	103151.8	105420.5	107038.4
-27.5°	14637.3	22069.9	32047.5	47695.4	63239.9	76929.9	86659.7	95111.0	98074.6	100882.2	102326.0
-30°	10681.5	16512.2	24449.9	34111.6	47490.2	59885.8	71778.7	81243.3	88653.3	94105.9	96166.6
-32.5°	7872.1	11615.1	17601.0	24970.4	32064.1	42818.5	53133.5	62849.1	71786.8	79115.5	84332.9
-35°	5369.6	8157.9	11502.8	17115.2	22660.4	28714.1	35284.8	43664.0	50697.6	58748.2	65653.9
-37.5°	3630.0	5432.4	7981.6	11021.4	15406.1	19526.7	24009.3	28461.7	32583.5	39087.5	44818.3
-40°	2369.2	3503.4	5289.2	7374.3	10181.6	12826.0	16153.7	18995.6	21983.9	25509.9	28527.2
-42.5°	1408.1	2240.7	3258.6	4768.5	6460.2	8305.0	10477.3	12516.6	14545.4	16663.7	18552.2
-45°	857.3	1312.5	1906.4	2853.7	3792.8	5102.5	6392.5	7576.8	9109.0	10462.6	11564.2
-47.5°	548.1	715.1	1085.5	1548.2	2099.5	2896.6	3674.4	4462.6	5429.1	6292.1	6979.7
-50°	381.5	450.9	602.5	757.0	1089.6	1477.1	1851.1	2335.0	2918.4	3448.8	3867.4
-52.5°	328.9	353.6	383.9	441.0	576.9	711.6	843.8	1118.1	1397.2	1647.5	1844.2
-55°	296.1	305.5	314.0	339.8	371.6	404.2	450.8	555.3	656.0	750.9	819.5
-57.5°	223.7	256.8	279.4	289.9	301.0	312.4	335.0	362.0	385.3	404.5	415.8
-60°	157.1	172.7	201.5	228.0	249.7	266.8	281.3	296.3	310.2	320.3	320.2
-62.5°	119.4	131.4	146.7	161.8	176.0	192.4	211.1	229.2	246.3	258.8	262.8
-65°	95.2	102.9	111.6	121.1	131.2	143.0	152.6	162.0	171.2	177.9	181.0
-67.5°	77.9	82.5	86.8	90.8	96.7	103.6	109.7	115.1	119.8	123.8	127.1
-70°	61.6	65.6	69.4	72.9	76.2	79.1	81.8	84.2	86.3	88.1	89.5
-72.5°	47.8	49.9	52.0	55.0	57.9	60.4	62.7	64.8	66.6	68.1	69.4
-75°	39.0	41.3	42.8	44.1	45.3	46.4	47.4	48.3	49.0	49.7	50.2
-77.5°	31.5	31.3	30.9	31.0	31.5	33.0	34.7	36.1	37.4	38.4	39.3
-80°	23.3	23.5	23.0	22.1	20.7	19.8	19.3	19.1	19.1	19.5	19.9
-82.5°	20.5	19.4	18.5	17.9	17.6	16.3	14.5	12.5	10.3	10.0	10.0
-85°	16.8	15.6	14.0	12.3	10.3	10.2	10.2	10.2	10.2	7.7	5.1
-87.5°	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.7	9.9	7.5	5.0
-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: P699938 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-70-3L-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°	2.5	0.0	0.0	0.0	0.0	0.0	2.5	5.0	7.5	9.9	9.7
85°	10.1	10.1	10.2	10.2	10.2	10.1	10.1	10.0	10.1	10.3	12.6
82.5°	20.2	20.4	20.5	20.5	20.5	20.4	20.2	20.0	19.8	19.5	19.4
80°	30.3	30.5	30.7	30.7	30.7	30.5	30.3	30.1	29.7	29.3	28.8
77.5°	40.5	40.7	40.9	40.9	40.9	40.7	40.5	40.1	39.7	39.1	38.5
75°	50.7	51.0	51.1	51.2	51.1	51.0	50.7	50.2	49.7	49.0	48.3
72.5°	60.8	61.1	61.3	61.4	61.3	61.1	60.8	60.3	59.7	58.9	58.0
70°	80.3	81.2	81.6	81.8	81.6	81.2	80.3	79.2	77.8	75.3	71.7
67.5°	97.7	101.2	102.1	102.3	102.1	101.2	97.7	94.3	91.0	88.4	85.9
65°	111.3	112.1	112.4	112.5	112.4	112.1	111.3	109.9	107.7	105.1	102.5
62.5°	146.1	151.0	153.0	153.5	153.0	151.0	146.1	140.8	135.3	130.8	126.4
60°	204.2	211.0	218.4	225.1	218.4	211.0	204.2	195.9	186.1	174.6	163.3
57.5°	440.6	515.9	576.6	624.1	576.6	515.9	440.6	367.8	302.3	264.9	231.4
55°	840.5	1025.8	1158.1	1248.2	1158.1	1025.8	840.5	660.6	498.6	423.4	353.2
52.5°	1153.4	1390.8	1546.7	1637.0	1546.7	1390.8	1153.4	917.1	712.1	610.6	512.2
50°	1272.3	1504.4	1650.2	1718.8	1650.2	1504.4	1272.3	1038.0	852.1	753.1	651.4
47.5°	1183.3	1340.3	1452.2	1524.5	1452.2	1340.3	1183.3	1015.6	895.6	820.9	733.9
45°	1032.5	1107.0	1154.2	1176.6	1154.2	1107.0	1032.5	942.9	891.1	846.1	780.4
42.5°	1048.9	1099.0	1125.9	1125.4	1125.9	1099.0	1048.9	982.5	942.4	896.7	847.6
40°	1294.0	1383.2	1446.5	1463.1	1446.5	1383.2	1294.0	1196.4	1117.7	1038.0	979.2
37.5°	1670.4	1757.4	1809.0	1810.9	1809.0	1757.4	1670.4	1548.5	1404.3	1260.6	1161.0
35°	2074.2	2179.7	2253.4	2240.6	2253.4	2179.7	2074.2	1925.7	1746.3	1568.2	1411.8
32.5°	2522.2	2647.0	2735.7	2752.2	2735.7	2647.0	2522.2	2359.3	2105.6	1881.7	1742.4
30°	3663.7	3861.2	3913.8	3898.1	3913.8	3861.2	3663.7	3439.4	2888.0	2695.1	2400.5
27.5°	7883.3	8242.7	8086.4	8154.3	8086.4	8242.7	7883.3	7115.7	5259.8	5448.2	4140.4
25°	14272.7	13680.8	12935.1	12379.8	12935.1	13680.8	14272.7	14443.6	14050.6	12561.4	10204.9
22.5°	26081.9	26951.2	27618.9	27675.5	27618.9	26951.2	26081.9	24273.6	23636.8	22904.7	21456.4
20°	44505.5	47507.1	49678.0	50746.9	49678.0	47507.1	44505.5	40261.2	37020.8	33882.3	32362.5
17.5°	67222.4	74188.9	78518.3	81307.5	78518.3	74188.9	67222.4	59379.6	52980.7	47362.2	43242.9
15°	95223.8	109390.5	117430.6	118600.4	117430.6	109390.5	95223.8	80626.6	69688.3	60989.6	54343.3
12.5°	131419.9	156037.4	174954.5	180790.9	174954.5	156037.4	131419.9	108670.3	86355.9	73787.2	64533.9
10°	184135.8	243985.6	327278.6	346316.7	327278.6	243985.6	184135.8	142750.8	109989.2	86729.0	72300.8
7.5°	301235.7	524622.7	761350.7	819086.3	761350.7	524622.7	301235.7	183733.5	133073.9	100895.1	80849.1
5°	503789.3	918185.6	#####	#####	#####	918185.6	503789.3	246287.0	159487.7	115563.5	87984.9
2.5°	690740.7	#####	#####	#####	#####	#####	690740.7	317141.7	180428.4	125621.0	93219.2
0°	695390.8	#####	#####	#####	#####	#####	695390.8	324861.8	187517.9	130836.9	96654.4
-2.5°	568578.8	859809.1	#####	#####	#####	859809.1	568578.8	302390.8	183204.7	129663.9	97645.9
-5°	382960.5	606953.3	772403.1	844147.6	772403.1	606953.3	382960.5	241439.5	165782.9	124539.7	98142.7
-7.5°	264525.9	366264.0	479684.3	510932.0	479684.3	366264.0	264525.9	193075.8	146306.0	116341.4	97532.4
-10°	195057.3	233564.4	273558.6	282525.0	273558.6	233564.4	195057.3	157358.5	129996.2	108269.9	96178.3
-12.5°	154955.1	175831.1	193412.6	196107.0	193412.6	175831.1	154955.1	135284.6	115395.0	105144.6	98381.7
-15°	132682.3	144390.3	152138.2	156619.6	152138.2	144390.3	132682.3	120372.8	111433.1	105049.3	100600.6
-17.5°	121077.3	126445.7	130178.7	133016.2	130178.7	126445.7	121077.3	114602.3	110448.6	106246.4	103444.2
-20°	115818.7	118587.9	121263.2	123214.6	121263.2	118587.9	115818.7	112765.4	109988.4	107316.4	104435.7



REPORT NUMBER: P699938 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	112407.1	114314.3	115979.9	117833.0	115979.9	114314.3	112407.1	110605.8	108461.1	106507.5	103317.7
-25°	108358.5	109794.1	111050.3	112308.2	111050.3	109794.1	108358.5	107038.4	105420.5	103151.8	100296.6
-27.5°	103386.6	104395.5	105136.0	106026.2	105136.0	104395.5	103386.6	102326.0	100882.2	98074.6	95111.0
-30°	97628.0	98611.8	99086.4	99826.1	99086.4	98611.8	97628.0	96166.6	94105.9	88653.3	81243.3
-32.5°	88069.0	90449.3	91935.9	93288.3	91935.9	90449.3	88069.0	84332.9	79115.5	71786.8	62849.1
-35°	70412.0	73157.9	74832.3	76590.9	74832.3	73157.9	70412.0	65653.9	58748.2	50697.6	43664.0
-37.5°	48578.5	50610.5	51730.7	53008.0	51730.7	50610.5	48578.5	44818.3	39087.5	32583.5	28461.7
-40°	30396.0	31586.6	32138.7	32003.3	32138.7	31586.6	30396.0	28527.2	25509.9	21983.9	18995.6
-42.5°	19826.4	20647.9	21255.0	21884.6	21255.0	20647.9	19826.4	18552.2	16663.7	14545.4	12516.6
-45°	12472.8	13191.1	13618.6	13689.4	13618.6	13191.1	12472.8	11564.2	10462.6	9109.0	7576.8
-47.5°	7465.3	7812.9	8107.3	8358.9	8107.3	7812.9	7465.3	6979.7	6292.1	5429.1	4462.6
-50°	4173.1	4390.6	4569.4	4706.4	4569.4	4390.6	4173.1	3867.4	3448.8	2918.4	2335.0
-52.5°	2000.3	2118.9	2214.9	2281.6	2214.9	2118.9	2000.3	1844.2	1647.5	1397.2	1118.1
-55°	872.6	910.7	941.4	961.7	941.4	910.7	872.6	819.5	750.9	656.0	555.3
-57.5°	425.6	433.2	430.0	419.5	430.0	433.2	425.6	415.8	404.5	385.3	362.0
-60°	318.8	316.2	316.6	317.2	316.6	316.2	318.8	320.2	320.3	310.2	296.3
-62.5°	264.4	263.6	265.1	266.0	265.1	263.6	264.4	262.8	258.8	246.3	229.2
-65°	182.5	182.6	183.7	184.2	183.7	182.6	182.5	181.0	177.9	171.2	162.0
-67.5°	129.7	131.5	132.7	133.0	132.7	131.5	129.7	127.1	123.8	119.8	115.1
-70°	90.6	91.4	96.7	102.3	96.7	91.4	90.6	89.5	88.1	86.3	84.2
-72.5°	70.3	71.0	71.5	71.6	71.5	71.0	70.3	69.4	68.1	66.6	64.8
-75°	50.7	51.0	51.1	51.2	51.1	51.0	50.7	50.2	49.7	49.0	48.3
-77.5°	40.0	40.5	40.8	40.9	40.8	40.5	40.0	39.3	38.4	37.4	36.1
-80°	20.1	20.3	25.5	30.7	25.5	20.3	20.1	19.9	19.5	19.1	19.1
-82.5°	10.0	10.1	10.2	10.2	10.2	10.1	10.0	10.0	10.0	10.3	12.5
-85°	2.6	0.0	0.0	0.0	0.0	0.0	2.6	5.1	7.7	10.2	10.2
-87.5°	2.5	0.0	0.0	0.0	0.0	0.0	2.5	5.0	7.5	9.9	9.7
-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):

	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°	9.6	9.4	9.3	11.4	13.3	15.1	16.8	16.3	15.7	15.1	14.5
85°	14.8	16.8	18.6	18.8	19.1	19.7	20.5	20.5	20.5	20.5	20.5
82.5°	19.6	20.0	20.5	20.5	20.5	20.5	20.6	21.6	22.1	22.2	21.7
80°	28.2	27.6	26.8	26.1	25.2	24.3	23.6	24.7	26.3	28.1	28.9
77.5°	37.8	37.0	35.8	33.7	32.1	31.1	30.8	30.4	29.9	30.1	30.7
75°	47.4	46.4	44.8	41.7	37.9	33.1	31.6	33.3	34.2	34.2	32.9
72.5°	57.0	55.8	54.5	53.1	51.6	48.8	44.6	41.2	39.6	40.0	40.0
70°	68.4	65.6	63.7	62.1	60.3	58.4	55.5	51.2	45.5	41.4	40.9
67.5°	82.5	78.0	74.0	71.0	69.0	66.8	64.5	62.1	58.2	52.4	46.0
65°	99.4	96.0	92.3	88.1	83.6	78.8	73.7	69.9	67.1	63.8	57.7
62.5°	121.3	115.6	110.4	105.8	100.8	95.5	89.8	83.8	77.5	71.2	66.4
60°	152.7	142.8	133.8	125.5	118.3	112.0	105.8	99.2	92.3	83.9	76.2
57.5°	200.6	179.1	166.1	152.1	137.4	130.1	123.8	115.1	106.8	97.3	86.0
55°	290.7	254.4	225.6	196.2	170.5	159.4	147.2	136.3	125.9	112.7	101.2
52.5°	419.4	366.1	317.2	268.5	234.5	207.0	179.1	164.8	150.1	135.8	119.9
50°	549.5	489.4	429.1	370.0	321.9	276.1	239.6	206.0	182.9	164.7	143.8
47.5°	653.0	600.8	541.1	475.4	422.6	366.2	314.8	265.5	232.0	200.5	176.3
45°	734.6	694.6	643.6	584.5	529.8	468.9	401.3	342.4	288.8	249.0	214.1
42.5°	815.6	777.8	732.0	685.1	633.2	570.6	503.0	428.0	358.9	301.4	259.7
40°	925.3	862.7	818.2	773.6	721.9	665.6	599.7	522.7	439.7	363.7	310.5
37.5°	1073.2	998.6	921.8	853.9	802.5	749.8	691.9	616.8	526.8	444.5	374.2
35°	1246.9	1134.2	1043.5	952.7	879.7	828.7	773.8	705.8	622.2	538.1	445.7
32.5°	1511.2	1411.6	1193.2	1076.5	983.7	911.1	847.1	783.6	722.8	634.5	535.8
30°	2163.1	2116.6	1704.2	1403.7	1265.1	1029.9	922.7	880.9	816.0	730.3	626.6
27.5°	4436.5	3747.1	3153.2	2949.7	1961.0	1418.2	1127.9	999.4	918.4	822.7	717.2
25°	9684.6	7985.1	7226.7	6348.0	4439.3	2329.3	1678.9	1267.8	1046.5	926.4	840.6
22.5°	18228.0	16039.5	14008.3	11521.4	8827.1	5772.6	2943.7	1658.9	1239.6	1141.3	998.2
20°	29967.0	25953.2	22549.4	18994.6	15132.9	10474.0	5300.8	2868.1	1864.1	1435.9	1189.9
17.5°	40518.7	37156.2	31867.0	27184.0	22342.2	16634.0	10286.9	4933.2	2654.6	1789.2	1410.6
15°	50120.9	46852.1	41720.1	35759.4	29923.6	23577.2	16081.4	7434.2	3864.9	2361.5	1748.1
12.5°	58365.0	54655.9	51167.7	43830.3	37359.6	30509.0	22204.9	12320.1	5930.5	3372.2	2317.6
10°	64981.7	60762.2	57213.0	51252.5	44351.0	37030.7	28247.9	17228.0	8214.8	4567.1	2970.0
7.5°	70386.6	65051.7	61908.4	57502.8	50841.9	43524.9	34193.7	21943.3	10375.3	5796.5	3673.8
5°	74505.1	68399.4	65395.8	62329.9	56601.9	49666.1	39898.1	26293.5	12361.9	7014.2	4394.5
2.5°	77937.3	71134.6	68266.0	66225.0	61616.4	55271.9	44853.7	29787.1	14243.3	8174.4	5175.1
0°	80642.5	73746.7	70984.2	69531.4	65909.5	60180.1	48669.9	32218.1	15909.6	9218.3	5893.2
-2.5°	82969.7	76490.3	74147.1	72842.3	69710.6	64098.6	51445.1	34063.5	17781.6	10369.2	6452.5
-5°	85331.9	79880.9	77824.0	76281.6	72996.3	66508.1	52661.2	34599.0	18978.6	11213.5	6879.5
-7.5°	87942.2	83553.6	81517.1	79610.1	75839.8	67630.7	52229.8	33771.9	19196.6	11443.8	6969.8
-10°	90476.7	87514.0	85415.1	82673.2	78087.5	67552.4	50232.8	32024.7	18832.9	11334.2	6882.3
-12.5°	94154.7	91372.1	88841.8	85295.5	79737.1	65813.8	46605.0	29222.8	17836.9	10841.5	6598.5
-15°	97892.6	94845.6	91084.1	86390.0	77760.9	61650.7	41789.8	24664.4	15722.3	9831.5	6102.1
-17.5°	100232.7	96897.9	92403.6	86490.3	73152.3	54943.1	35949.3	21687.5	13795.7	8540.6	5269.1
-20°	101294.1	96918.3	91371.8	81574.5	66115.0	46608.5	28411.6	18337.9	11824.0	7400.5	4584.3



REPORT NUMBER: P699938 (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°	99930.7	94511.2	86507.8	74344.5	55559.2	37465.2	23302.6	15086.8	9494.1	6029.7	3786.7
-25°	95704.0	88492.3	77314.6	61188.6	44035.8	27781.1	18720.1	12303.5	7809.0	4804.9	2935.2
-27.5°	86659.7	76929.9	63239.9	47695.4	32047.5	22069.9	14637.3	9329.5	5935.7	3751.3	2343.2
-30°	71778.7	59885.8	47490.2	34111.6	24449.9	16512.2	10681.5	7097.5	4475.7	2712.6	1719.0
-32.5°	53133.5	42818.5	32064.1	24970.4	17601.0	11615.1	7872.1	4978.6	3072.8	2003.3	1283.9
-35°	35284.8	28714.1	22660.4	17115.2	11502.8	8157.9	5369.6	3434.9	2145.5	1350.8	915.1
-37.5°	24009.3	19526.7	15406.1	11021.4	7981.6	5432.4	3630.0	2322.7	1367.6	962.6	688.3
-40°	16153.7	12826.0	10181.6	7374.3	5289.2	3503.4	2369.2	1430.9	986.5	671.3	526.3
-42.5°	10477.3	8305.0	6460.2	4768.5	3258.6	2240.7	1408.1	967.8	661.7	507.5	438.6
-45°	6392.5	5102.5	3792.8	2853.7	1906.4	1312.5	857.3	619.1	469.4	415.4	377.5
-47.5°	3674.4	2896.6	2099.5	1548.2	1085.5	715.1	548.1	404.9	386.7	359.9	333.4
-50°	1851.1	1477.1	1089.6	757.0	602.5	450.9	381.5	354.1	338.5	319.8	281.5
-52.5°	843.8	711.6	576.9	441.0	383.9	353.6	328.9	317.3	303.8	260.1	205.1
-55°	450.8	404.2	371.6	339.8	314.0	305.5	296.1	272.3	226.9	178.0	155.3
-57.5°	335.0	312.4	301.0	289.9	279.4	256.8	223.7	184.7	159.7	140.7	120.7
-60°	281.3	266.8	249.7	228.0	201.5	172.7	157.1	140.6	123.2	112.1	100.8
-62.5°	211.1	192.4	176.0	161.8	146.7	131.4	119.4	110.4	100.9	91.3	83.0
-65°	152.6	143.0	131.2	121.1	111.6	102.9	95.2	88.7	83.0	76.7	67.9
-67.5°	109.7	103.6	96.7	90.8	86.8	82.5	77.9	73.0	67.9	62.5	56.3
-70°	81.8	79.1	76.2	72.9	69.4	65.6	61.6	57.3	52.7	48.1	43.7
-72.5°	62.7	60.4	57.9	55.0	52.0	49.9	47.8	44.4	39.9	34.3	32.0
-75°	47.4	46.4	45.3	44.1	42.8	41.3	39.0	35.6	33.1	31.3	30.9
-77.5°	34.7	33.0	31.5	31.0	30.9	31.3	31.5	30.2	28.8	27.4	26.2
-80°	19.3	19.8	20.7	22.1	23.0	23.5	23.3	22.2	21.1	20.5	20.9
-82.5°	14.5	16.3	17.6	17.9	18.5	19.4	20.5	20.5	20.5	20.5	20.5
-85°	10.2	10.2	10.3	12.3	14.0	15.6	16.8	17.3	18.1	19.2	20.5
-87.5°	9.6	9.4	9.2	9.0	8.8	8.6	8.4	10.2	11.8	13.2	14.5
-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):

	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°	13.8	13.2	12.5	11.8	11.0	10.2	9.5	8.7	7.8	7.0	6.2
85°	20.5	20.5	20.5	20.5	20.7	20.5	18.9	17.3	15.7	14.0	12.3
82.5°	20.7	20.5	20.5	20.7	22.2	23.1	23.5	23.2	22.0	20.7	18.4
80°	27.6	26.2	24.9	23.7	24.5	25.9	27.2	27.5	25.8	24.2	22.5
77.5°	30.7	30.7	30.7	29.3	28.4	28.4	29.3	30.7	29.7	27.6	25.5
75°	31.0	30.7	30.7	31.1	31.4	30.6	30.3	30.7	30.7	30.7	28.5
72.5°	37.7	35.4	32.9	32.0	33.4	33.6	32.4	30.7	30.7	30.7	30.7
70°	40.9	40.9	38.9	36.9	36.3	36.9	36.5	34.0	30.8	30.7	30.7
67.5°	40.9	40.9	40.9	41.1	39.5	39.1	40.3	38.1	34.5	30.8	30.7
65°	50.5	44.7	41.1	42.5	42.2	40.6	40.8	40.9	38.1	34.0	30.7
62.5°	59.8	51.8	46.7	45.2	45.1	43.7	40.9	40.9	40.9	37.2	32.7
60°	69.9	61.9	53.0	49.1	48.1	47.8	44.4	40.9	40.9	40.3	35.4
57.5°	78.3	72.5	64.2	54.9	50.2	50.4	48.6	43.5	40.9	40.9	38.0
55°	87.2	78.3	73.4	65.1	54.9	51.1	51.5	47.2	41.6	40.9	40.6
52.5°	104.0	88.7	78.7	73.4	64.2	53.4	52.6	50.8	44.9	40.9	40.9
50°	124.6	107.0	89.4	78.3	72.4	62.0	54.2	52.9	48.1	41.7	40.9
47.5°	149.7	128.9	107.8	86.4	76.8	69.7	59.7	55.1	51.1	44.4	40.9
45°	184.0	153.9	128.7	104.4	81.8	75.3	65.7	57.8	53.7	47.1	40.9
42.5°	221.6	185.7	152.8	122.8	97.9	80.7	71.0	62.2	56.5	49.6	42.2
40°	266.4	221.6	179.7	146.5	116.2	87.0	76.4	66.3	59.6	52.0	44.3
37.5°	313.4	262.4	213.3	170.6	135.6	103.9	82.2	69.8	62.1	54.2	46.3
35°	372.0	307.6	249.3	199.8	157.8	120.7	88.4	73.7	64.5	56.4	48.2
32.5°	431.0	357.3	292.6	233.5	179.9	137.5	99.9	79.2	66.8	58.4	49.9
30°	511.0	415.9	335.9	267.5	204.4	156.8	114.4	84.8	69.0	60.3	51.6
27.5°	605.4	477.0	381.1	304.9	234.7	176.0	127.9	90.5	71.0	62.1	53.1
25°	705.6	557.2	436.5	342.4	264.7	194.4	140.5	96.5	74.6	63.7	54.5
22.5°	823.7	644.5	492.6	378.5	291.9	212.9	154.0	106.9	79.1	65.2	55.8
20°	954.7	732.0	551.0	419.2	320.1	235.7	168.7	116.6	83.5	66.5	57.0
17.5°	1101.5	850.4	639.0	472.8	350.3	256.5	182.8	125.2	87.7	67.7	58.0
15°	1364.0	1020.4	737.8	527.9	380.4	275.4	196.2	133.0	91.6	68.7	58.9
12.5°	1683.7	1206.9	841.4	583.2	409.7	292.1	208.7	139.8	95.3	70.4	59.7
10°	2031.8	1403.6	946.8	637.5	437.7	306.7	220.1	145.8	98.1	72.8	60.3
7.5°	2394.5	1603.0	1050.5	689.2	464.4	317.0	227.2	151.6	100.1	75.2	60.8
5°	2778.0	1835.5	1194.2	764.7	493.5	322.8	231.8	156.6	101.4	77.6	61.1
2.5°	3237.0	2115.0	1360.2	841.2	520.0	326.2	234.5	160.7	102.1	79.8	61.3
0°	3662.8	2373.6	1514.2	910.6	542.3	327.4	235.3	163.7	102.3	81.8	61.4
-2.5°	3971.4	2536.6	1593.9	962.2	588.1	364.4	250.4	170.2	104.2	81.6	61.3
-5°	4210.3	2658.5	1650.2	1002.0	627.2	397.3	263.2	175.1	105.6	81.2	61.1
-7.5°	4269.6	2677.3	1657.3	1023.0	658.9	424.6	273.3	178.2	106.4	80.3	60.8
-10°	4209.7	2608.7	1599.3	986.4	643.5	430.1	278.9	179.1	106.5	79.2	60.3
-12.5°	4041.1	2482.8	1512.8	936.6	615.8	417.1	273.5	174.3	105.6	77.8	59.7
-15°	3753.5	2295.3	1396.5	873.5	583.8	401.0	264.6	165.9	102.6	76.0	58.9
-17.5°	3310.3	2042.5	1249.4	796.6	548.2	381.8	251.7	155.6	99.1	73.9	58.0
-20°	2843.7	1757.8	1086.2	706.0	509.5	360.0	234.9	143.4	95.0	71.6	57.0



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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°	2371.6	1483.5	947.8	646.6	473.2	335.6	213.7	129.3	90.5	68.9	55.8
-25°	1858.9	1192.7	803.1	580.7	441.5	310.7	192.6	113.2	85.4	66.0	54.5
-27.5°	1467.1	926.8	661.3	515.0	397.1	280.5	173.3	106.6	80.5	62.7	53.1
-30°	1120.8	770.1	573.3	453.5	352.2	241.5	151.8	99.8	76.5	60.3	51.6
-32.5°	822.5	621.3	501.5	402.7	306.8	202.5	127.9	92.6	72.2	58.4	49.9
-35°	672.1	525.1	433.2	352.4	261.4	174.3	109.1	84.9	67.7	56.4	48.2
-37.5°	526.0	454.3	379.1	302.6	216.1	144.6	100.1	78.5	62.8	54.2	46.3
-40°	455.3	392.8	328.7	253.6	179.0	113.3	90.6	72.7	59.6	52.0	44.3
-42.5°	390.9	342.1	276.5	204.7	143.3	101.8	81.0	66.7	56.9	49.6	42.2
-45°	342.2	289.3	220.6	164.1	110.4	90.5	74.1	60.9	54.1	47.1	40.2
-47.5°	291.2	226.1	173.0	125.0	97.7	79.7	66.9	57.7	51.1	44.4	38.3
-50°	220.4	172.5	134.3	105.2	85.4	71.6	60.4	54.3	48.1	41.7	36.2
-52.5°	165.9	135.5	109.8	91.3	75.6	63.2	56.6	50.8	44.9	38.9	33.7
-55°	129.9	111.7	94.5	78.7	65.5	58.0	52.7	47.2	41.6	36.1	31.2
-57.5°	107.9	94.6	79.6	66.1	58.5	53.6	48.6	43.5	38.3	33.1	30.8
-60°	89.3	77.2	64.0	58.0	53.6	49.0	44.4	39.7	34.9	30.7	30.7
-62.5°	72.8	62.0	56.6	52.7	48.6	44.4	40.1	35.8	31.4	30.7	30.7
-65°	60.7	55.0	50.8	47.2	43.5	39.7	35.8	31.9	30.7	30.7	30.6
-67.5°	51.1	47.2	44.7	41.6	38.3	34.9	31.4	30.7	30.7	30.7	30.2
-70°	40.6	38.7	38.3	36.1	33.1	30.7	30.7	30.7	30.7	29.5	29.7
-72.5°	33.4	33.7	32.7	30.7	30.7	30.7	30.7	30.0	28.3	28.0	29.1
-75°	30.8	30.0	30.1	30.7	30.7	30.4	28.1	26.1	25.7	26.4	27.0
-77.5°	26.3	27.2	28.9	29.2	27.3	25.4	23.5	22.0	23.2	24.4	24.5
-80°	22.6	23.6	24.0	23.4	21.9	20.5	20.5	20.7	22.0	22.4	22.1
-82.5°	20.6	20.5	20.5	20.5	20.5	20.5	20.5	20.6	20.9	20.6	18.4
-85°	20.5	20.5	20.5	20.5	20.5	20.5	18.9	17.3	15.7	14.0	12.3
-87.5°	13.8	13.2	12.5	11.8	11.0	10.2	9.5	8.7	7.8	7.0	6.2
-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°	5.3	4.4	3.6	2.7	1.8	0.9	0.0
85°	10.6	8.9	7.1	5.3	3.6	1.8	0.0
82.5°	15.9	13.3	10.6	8.0	5.3	2.7	0.0
80°	20.8	17.7	14.2	10.6	7.1	3.6	0.0
77.5°	23.4	21.3	17.7	13.3	8.9	4.4	0.0
75°	26.0	23.4	20.8	15.9	10.6	5.3	0.0
72.5°	28.5	25.5	22.5	18.4	12.3	6.2	0.0
70°	30.7	27.6	24.2	20.7	14.0	7.0	0.0
67.5°	30.7	29.7	25.8	22.0	15.7	7.8	0.0
65°	30.7	30.7	27.5	23.2	17.3	8.7	0.0
62.5°	30.7	30.7	29.1	24.4	18.9	9.5	0.0
60°	30.7	30.7	30.6	25.6	20.5	10.2	0.0
57.5°	32.7	30.7	30.7	26.7	21.3	11.0	0.0
55°	34.9	30.7	30.7	27.8	22.0	11.8	0.0
52.5°	37.1	31.0	30.7	28.9	22.7	12.5	0.0
50°	39.2	32.7	30.7	29.9	23.4	13.2	0.0
47.5°	40.9	34.4	30.7	30.7	24.1	13.8	0.0
45°	40.9	36.0	30.7	30.7	24.7	14.5	0.0
42.5°	40.9	37.6	30.7	30.7	25.3	15.1	0.0
40°	40.9	39.0	31.3	30.7	25.9	15.7	0.0
37.5°	40.9	40.4	32.4	30.7	26.5	16.3	0.0
35°	40.9	40.9	33.5	30.7	27.0	16.8	0.0
32.5°	41.3	40.9	34.5	30.7	27.5	17.3	0.0
30°	42.8	40.9	35.4	30.7	28.0	17.8	0.0
27.5°	44.1	40.9	36.3	30.7	28.4	18.2	0.0
25°	45.3	40.9	37.0	30.7	28.8	18.6	0.0
22.5°	46.4	40.9	37.8	30.7	29.1	18.9	0.0
20°	47.4	40.9	38.4	30.7	29.5	19.3	0.0
17.5°	48.3	40.9	39.0	30.7	29.8	19.6	0.0
15°	49.0	40.9	39.5	30.7	30.0	19.8	0.0
12.5°	49.7	40.9	39.9	30.7	30.2	20.0	0.0
10°	50.2	40.9	40.3	30.7	30.4	20.2	0.0
7.5°	50.7	40.9	40.5	30.7	30.5	20.3	0.0
5°	51.0	40.9	40.7	30.7	30.6	20.4	0.0
2.5°	51.1	40.9	40.9	30.7	30.7	20.5	0.0
0°	51.2	40.9	40.9	30.7	30.7	20.5	0.0
-2.5°	51.1	40.9	40.9	30.7	30.7	20.5	0.0
-5°	51.0	40.9	40.7	30.7	30.6	20.4	0.0
-7.5°	50.7	40.9	40.5	30.7	30.5	20.3	0.0
-10°	50.2	40.9	40.3	30.7	30.4	20.2	0.0
-12.5°	49.7	40.9	39.9	30.7	30.2	20.0	0.0
-15°	49.0	40.9	39.5	30.7	30.0	19.8	0.0
-17.5°	48.3	40.9	39.0	30.7	29.8	19.6	0.0
-20°	47.4	40.9	38.4	30.7	29.5	19.3	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	46.4	40.9	37.8	30.7	29.1	18.9	0.0
-25°	45.3	40.7	37.0	30.7	28.8	18.6	0.0
-27.5°	44.1	40.4	36.3	30.7	28.4	18.2	0.0
-30°	42.8	40.0	35.4	30.7	28.0	17.8	0.0
-32.5°	41.3	39.5	34.3	30.7	27.5	17.3	0.0
-35°	40.5	38.8	33.3	30.7	27.0	16.8	0.0
-37.5°	39.8	37.8	32.2	30.7	26.5	16.3	0.0
-40°	38.8	36.4	31.2	30.7	25.9	15.7	0.0
-42.5°	37.7	35.1	30.7	30.7	25.3	15.1	0.0
-45°	36.3	33.9	30.7	30.7	24.7	14.5	0.0
-47.5°	34.8	32.8	30.7	30.7	24.1	13.8	0.0
-50°	33.6	31.8	30.7	29.9	23.4	13.2	0.0
-52.5°	32.6	30.8	30.7	28.9	22.7	12.5	0.0
-55°	31.8	30.7	30.7	27.8	22.0	11.8	0.0
-57.5°	31.2	30.7	30.7	26.7	21.3	11.0	0.0
-60°	30.7	30.7	30.6	25.6	20.5	10.2	0.0
-62.5°	30.7	30.7	29.1	24.4	18.9	9.5	0.0
-65°	30.7	30.7	27.5	23.2	17.3	8.7	0.0
-67.5°	30.7	29.7	25.8	22.0	15.7	7.8	0.0
-70°	30.7	27.6	24.2	20.7	14.0	7.0	0.0
-72.5°	28.5	25.5	22.5	18.4	12.3	6.2	0.0
-75°	26.0	23.4	20.8	15.9	10.6	5.3	0.0
-77.5°	23.4	21.3	17.7	13.3	8.9	4.4	0.0
-80°	20.8	17.7	14.2	10.6	7.1	3.6	0.0
-82.5°	15.9	13.3	10.6	8.0	5.3	2.7	0.0
-85°	10.6	8.9	7.1	5.3	3.6	1.8	0.0
-87.5°	5.3	4.4	3.6	2.7	1.8	0.9	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)