

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: P699913 (CONVERTED FROM TYPE C PHOTOMETRY)

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

Issue Date: 8/10/2023

Test Information

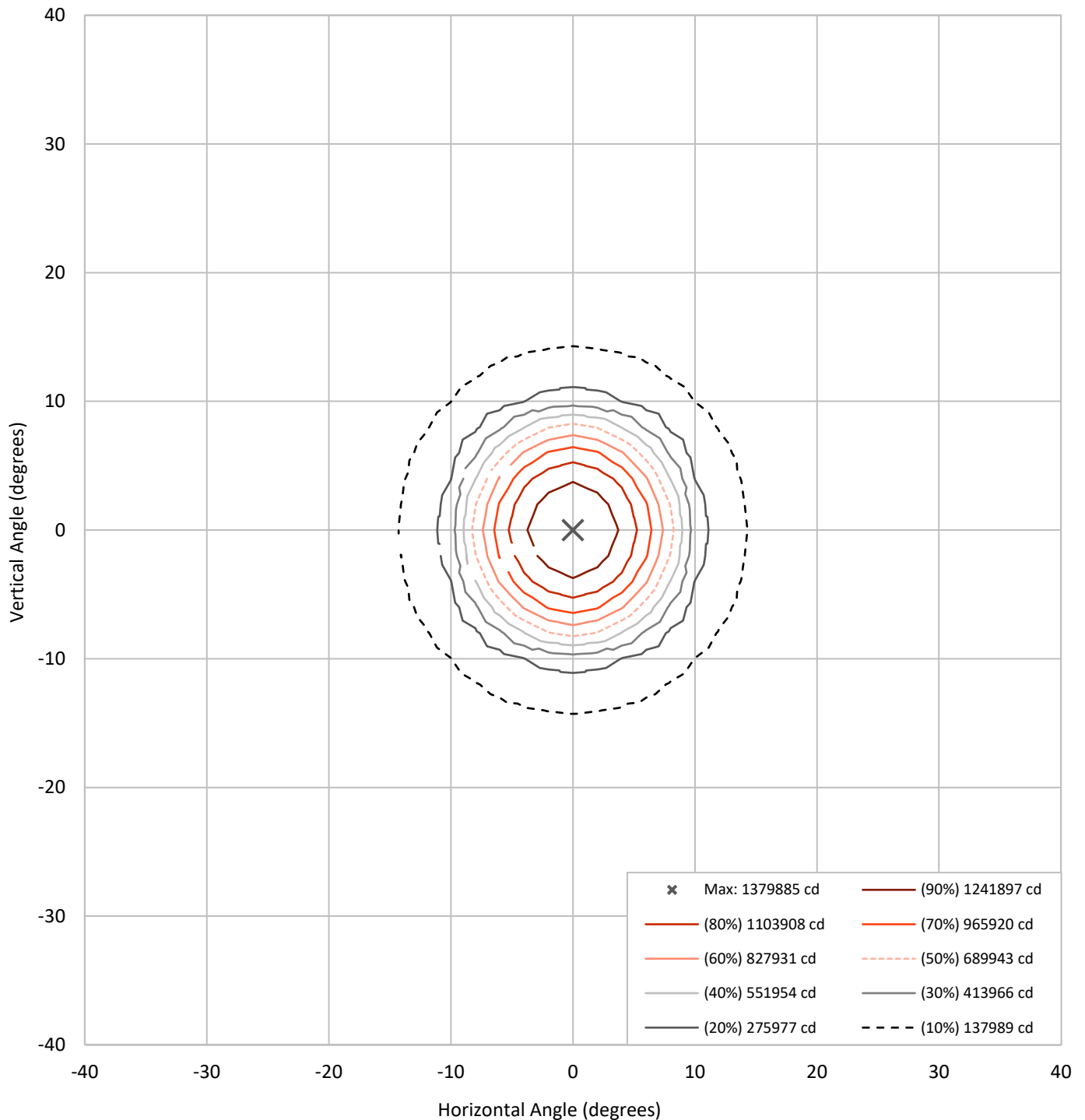
Test Method: LM-79-08
Report Number: P699913 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-50)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200L-57-70-3R-S
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:	175211.7 lumens	Max Intensity:	1379885 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	139.5 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:	64069.3 lumens	Field Lumens:	104151.8 lumens
Beam Efficiency:	36.6%	Field Efficiency:	59.4%
Input Watts (W):	1255.9		
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





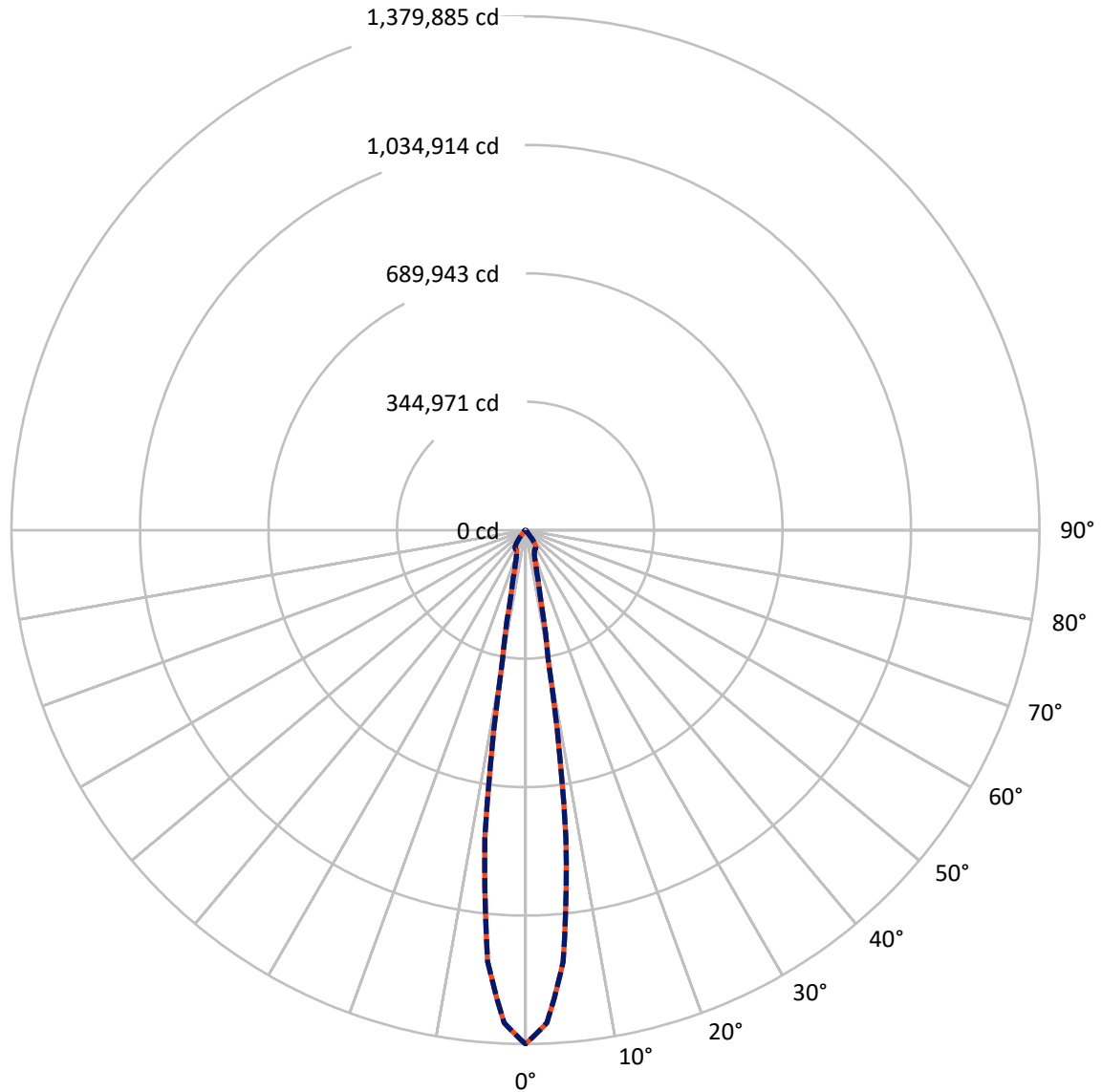
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Lumen Table

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	1.4	2.3	3.3	4.2	4.7	4.7	4.2	3.3	2.3	1.4	0.8	0.4	0.4
60		0.6	1.4	3.0	5.8	10.8	16.0	18.9	18.9	16.0	10.8	5.8	3.0	1.4	0.6	
50	0.7	0.9	2.4	6.7	16.6	27.0	55.4	92.2	92.2	55.4	27.0	16.6	6.7	2.4	0.9	0.7
40		1.2	4.1	14.4	35.7	228.4	729.1	1087.8	1087.8	729.1	228.4	35.7	14.4	4.1	1.2	
30	0.9	1.6	7.0	21.2	208.8	1063.6	1611.7	1788.0	1788.0	1611.7	1063.6	208.8	21.2	7.0	1.6	0.9
20		1.9	9.7	41.5	627.7	1513.3	2063.8	3717.9	3717.9	2063.8	1513.3	627.7	41.5	9.7	1.9	
10	1.0	2.1	11.1	67.7	905.9	1628.6	3619.9	22502.8	22502.8	3619.9	1628.6	905.9	67.7	11.1	2.1	1.0
0		2.1	11.1	67.7	905.9	1628.6	3619.9	22502.8	22502.8	3619.9	1628.6	905.9	67.7	11.1	2.1	
-10	0.9	1.9	9.7	41.5	627.7	1513.3	2063.8	3717.9	3717.9	2063.8	1513.3	627.7	41.5	9.7	1.9	0.9
-20		1.6	7.0	21.2	208.8	1063.6	1611.7	1788.0	1788.0	1611.7	1063.6	208.8	21.2	7.0	1.6	
-30	0.7	1.2	4.1	14.4	35.7	228.4	729.1	1087.8	1087.8	729.1	228.4	35.7	14.4	4.1	1.2	0.7
-40		0.9	2.4	6.7	16.6	27.0	55.4	92.2	92.2	55.4	27.0	16.6	6.7	2.4	0.9	
-50	0.4	0.6	1.4	3.0	5.8	10.8	16.0	18.9	18.9	16.0	10.8	5.8	3.0	1.4	0.6	0.4
-60		0.4	0.8	1.4	2.3	3.3	4.2	4.7	4.7	4.2	3.3	2.3	1.4	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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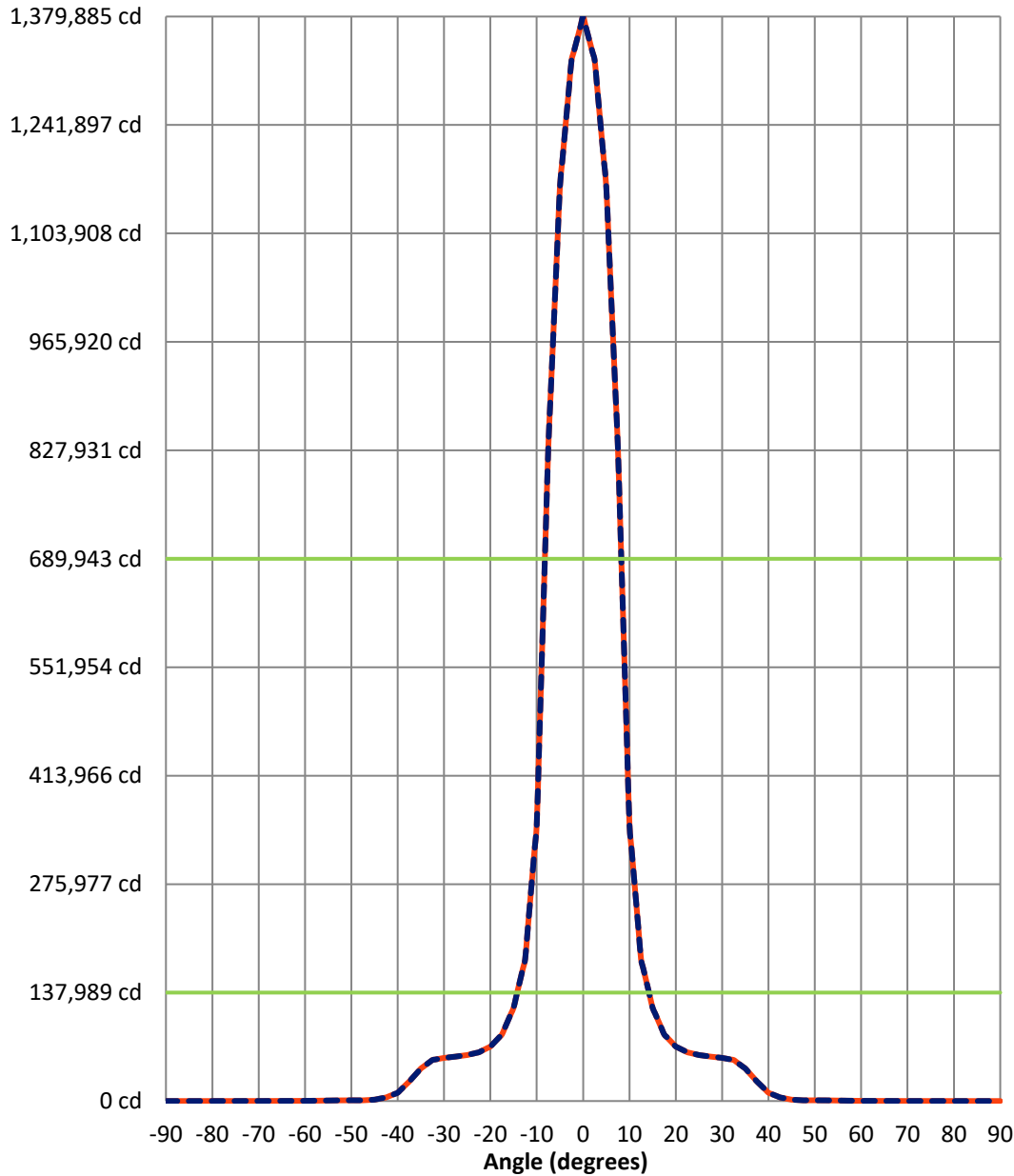
Luminous Intensity Polar Plot



— 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: 64069.3
 Efficiency: 36.6%

Field:
 H Angle: 28.4°
 V Angle: 28.4°
 Lumens: 104151.8
 Efficiency: 59.4%

Spill:
 Lumens: 71059.9
 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	1.7	2.2	2.6	3.0	3.4	3.8	4.2
85°	0.0	0.9	1.7	2.6	3.5	4.3	5.2	6.0	6.8	7.6	8.4
82.5°	0.0	1.3	2.6	3.9	5.2	6.5	7.7	9.0	10.0	10.0	10.0
80°	0.0	1.7	3.5	5.2	6.9	8.6	10.0	10.0	10.0	10.0	10.0
77.5°	0.0	2.2	4.3	6.5	8.6	10.0	10.0	10.0	10.0	10.0	11.0
75°	0.0	2.6	5.2	7.7	10.0	10.0	10.0	10.0	10.3	12.7	15.1
72.5°	0.0	3.0	6.0	9.0	10.0	10.0	10.0	10.8	13.6	16.4	19.2
70°	0.0	3.4	6.8	10.0	10.0	10.0	10.3	13.6	16.9	20.1	23.2
67.5°	0.0	3.8	7.6	10.0	10.0	10.0	12.7	16.4	20.1	23.7	27.2
65°	0.0	4.2	8.4	10.0	10.0	11.0	15.1	19.2	23.2	27.2	31.2
62.5°	0.0	4.6	9.2	10.0	10.0	12.9	17.5	21.9	26.3	30.7	35.0
60°	0.0	5.0	10.0	10.0	10.0	14.9	19.7	24.6	29.4	34.1	38.8
57.5°	0.0	5.4	10.0	10.0	11.4	16.7	22.0	27.2	32.4	37.5	42.5
55°	0.0	5.7	10.0	10.0	12.9	18.5	24.1	29.7	35.3	40.7	46.1
52.5°	0.0	6.1	10.0	10.0	14.3	20.3	26.3	32.2	38.1	43.9	49.6
50°	0.0	6.4	10.0	10.0	15.6	22.0	28.3	34.6	40.8	47.0	56.1
47.5°	0.0	6.8	10.0	10.2	16.9	23.6	30.3	36.9	43.4	49.9	62.7
45°	0.0	7.1	10.0	11.2	18.2	25.2	32.2	39.1	46.0	55.6	69.1
42.5°	0.0	7.4	10.0	12.1	19.4	26.7	34.0	41.2	48.4	61.1	72.6
40°	0.0	7.7	10.0	13.0	20.6	28.2	35.7	43.3	51.5	66.4	75.6
37.5°	0.0	7.9	10.0	13.8	21.7	29.5	37.4	45.2	56.0	70.7	78.4
35°	0.0	8.2	10.0	14.6	22.7	30.8	39.0	47.0	60.2	73.1	83.0
32.5°	0.0	8.4	10.0	15.3	23.7	32.1	40.4	48.8	64.1	75.3	90.5
30°	0.0	8.7	10.0	16.0	24.6	33.2	41.8	50.8	67.8	77.4	97.6
27.5°	0.0	8.9	10.0	16.6	25.4	34.3	43.1	53.8	70.6	79.4	104.1
25°	0.0	9.1	10.0	17.2	26.2	35.3	44.3	56.5	72.2	83.5	110.3
22.5°	0.0	9.2	10.0	17.7	26.9	36.1	45.3	59.0	73.7	88.4	119.5
20°	0.0	9.4	10.0	18.2	27.6	36.9	46.3	61.3	75.0	92.9	127.9
17.5°	0.0	9.5	10.0	18.6	28.1	37.7	47.2	63.3	76.2	96.8	135.3
15°	0.0	9.7	10.0	19.0	28.6	38.3	47.9	65.1	77.2	100.3	141.8
12.5°	0.0	9.8	10.0	19.3	29.0	38.8	48.5	66.6	78.0	103.2	147.3
10°	0.0	9.8	10.0	19.5	29.4	39.2	49.1	67.8	78.7	105.6	151.8
7.5°	0.0	9.9	10.0	19.7	29.7	39.6	49.5	68.8	79.3	107.5	155.3
5°	0.0	10.0	10.0	19.9	29.8	39.8	49.8	69.5	79.7	108.8	157.9
2.5°	0.0	10.0	10.0	20.0	30.0	40.0	49.9	69.9	79.9	109.6	159.4
0°	0.0	10.0	10.0	20.0	30.0	40.0	50.0	70.0	80.0	109.9	159.9
-2.5°	0.0	10.0	10.0	20.0	30.0	40.0	49.9	69.9	79.9	109.6	159.4
-5°	0.0	10.0	10.0	19.9	29.8	39.8	49.8	69.5	79.7	108.8	157.9
-7.5°	0.0	9.9	10.0	19.7	29.7	39.6	49.5	68.8	79.3	107.5	155.3
-10°	0.0	9.8	10.0	19.5	29.4	39.2	49.1	67.8	78.7	105.6	151.8
-12.5°	0.0	9.8	10.0	19.3	29.0	38.8	48.5	66.6	78.0	103.2	147.3
-15°	0.0	9.7	10.0	19.0	28.6	38.3	47.9	65.1	77.2	100.3	141.8
-17.5°	0.0	9.5	10.0	18.6	28.1	37.7	47.2	63.3	76.2	96.8	135.3
-20°	0.0	9.4	10.0	18.2	27.6	36.9	46.3	61.3	75.0	92.9	127.9



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 CATALOG NUMBER: EPH-LS-16-1200L-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	9.2	10.0	17.7	26.9	36.1	45.3	59.0	73.7	88.4	119.5
-25°	0.0	9.1	10.0	17.2	26.2	35.3	44.3	56.5	72.2	83.5	110.3
-27.5°	0.0	8.9	10.0	16.6	25.4	34.3	43.1	53.8	70.6	79.4	104.1
-30°	0.0	8.7	10.0	16.0	24.6	33.2	41.8	50.8	67.8	77.4	97.6
-32.5°	0.0	8.4	10.0	15.3	23.7	32.1	40.4	48.8	64.1	75.3	90.5
-35°	0.0	8.2	10.0	14.6	22.7	30.8	39.0	47.0	60.2	73.1	83.0
-37.5°	0.0	7.9	10.0	13.8	21.7	29.5	37.4	45.2	56.0	70.7	78.4
-40°	0.0	7.7	10.0	13.0	20.6	28.2	35.7	43.3	51.5	66.4	75.6
-42.5°	0.0	7.4	10.0	12.1	19.4	26.7	34.0	41.2	48.4	61.1	72.6
-45°	0.0	7.1	10.0	11.2	18.2	25.2	32.2	39.1	46.0	55.6	69.1
-47.5°	0.0	6.8	10.0	10.2	16.9	23.6	30.3	36.9	43.4	49.9	62.7
-50°	0.0	6.4	10.0	10.0	15.6	22.0	28.3	34.6	40.8	47.0	56.1
-52.5°	0.0	6.1	10.0	10.0	14.3	20.3	26.3	32.2	38.1	43.9	49.6
-55°	0.0	5.7	10.0	10.0	12.9	18.5	24.1	29.7	35.3	40.7	46.1
-57.5°	0.0	5.4	10.0	10.0	11.4	16.7	22.0	27.2	32.4	37.5	42.5
-60°	0.0	5.0	10.0	10.0	10.0	14.9	19.7	24.6	29.4	34.1	38.8
-62.5°	0.0	4.6	9.2	10.0	10.0	12.9	17.5	21.9	26.3	30.7	35.0
-65°	0.0	4.2	8.4	10.0	10.0	11.0	15.1	19.2	23.2	27.2	31.2
-67.5°	0.0	3.8	7.6	10.0	10.0	10.0	12.7	16.4	20.1	23.7	27.2
-70°	0.0	3.4	6.8	10.0	10.0	10.0	10.3	13.6	16.9	20.1	23.2
-72.5°	0.0	3.0	6.0	9.0	10.0	10.0	10.0	10.8	13.6	16.4	19.2
-75°	0.0	2.6	5.2	7.7	10.0	10.0	10.0	10.0	10.3	12.7	15.1
-77.5°	0.0	2.2	4.3	6.5	8.6	10.0	10.0	10.0	10.0	10.0	11.0
-80°	0.0	1.7	3.5	5.2	6.9	8.6	10.0	10.0	10.0	10.0	10.0
-82.5°	0.0	1.3	2.6	3.9	5.2	6.5	7.7	9.0	10.0	10.0	10.0
-85°	0.0	0.9	1.7	2.6	3.5	4.3	5.2	6.0	6.8	7.6	8.4
-87.5°	0.0	0.4	0.9	1.3	1.7	2.2	2.6	3.0	3.4	3.8	4.2
-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: P699913 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-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°	4.6	5.0	5.4	5.7	6.1	6.4	6.8	7.1	7.4	7.7	7.9
85°	9.2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
82.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.2	11.2	12.1	13.0	13.8
80°	10.0	10.0	11.4	12.9	14.3	15.6	16.9	18.2	19.4	20.6	21.7
77.5°	12.9	14.9	16.7	18.5	20.3	22.0	23.6	25.2	26.7	28.2	29.5
75°	17.5	19.7	22.0	24.1	26.3	28.3	30.3	32.2	34.0	35.7	37.4
72.5°	21.9	24.6	27.2	29.7	32.2	34.6	36.9	39.1	41.2	43.3	45.2
70°	26.3	29.4	32.4	35.3	38.1	40.8	43.4	46.0	48.4	51.5	56.0
67.5°	30.7	34.1	37.5	40.7	43.9	47.0	49.9	55.6	61.1	66.4	70.7
65°	35.0	38.8	42.5	46.1	49.6	56.1	62.7	69.1	72.6	75.6	78.4
62.5°	39.2	43.4	47.5	52.9	60.6	68.1	72.7	76.2	79.6	88.6	97.8
60°	43.4	47.9	54.7	63.3	70.9	75.0	79.0	88.4	99.5	110.3	127.3
57.5°	47.5	54.7	64.2	71.8	76.4	82.4	95.4	107.9	126.6	146.0	162.7
55°	52.9	63.3	71.8	76.8	85.2	99.6	115.9	138.4	160.1	172.7	184.7
52.5°	60.6	70.9	76.4	85.2	101.0	120.6	145.6	165.9	179.9	199.4	234.0
50°	68.1	75.0	82.4	99.6	120.6	148.0	168.8	184.3	215.1	253.9	312.2
47.5°	72.7	79.0	95.4	115.9	145.6	168.8	185.8	223.1	265.9	344.5	424.1
45°	76.2	88.4	107.9	138.4	165.9	184.3	223.1	269.9	360.8	457.2	579.1
42.5°	79.6	99.5	126.6	160.1	179.9	215.1	265.9	360.8	469.1	603.4	723.5
40°	88.6	110.3	146.0	172.7	199.4	253.9	344.5	457.2	603.4	734.2	853.7
37.5°	97.8	127.3	162.7	184.7	234.0	312.2	424.1	579.1	723.5	853.7	907.8
35°	106.6	143.5	173.2	206.7	267.1	383.2	531.1	691.4	831.8	903.3	935.2
32.5°	118.3	158.7	183.3	235.7	327.0	460.0	635.4	788.5	889.9	937.5	923.5
30°	131.3	167.8	197.3	263.0	386.1	551.7	724.3	867.9	929.3	927.0	1221.1
27.5°	143.5	175.8	220.7	307.1	446.5	637.8	805.0	902.6	932.8	1021.5	1667.0
25°	154.7	183.3	242.4	354.4	520.4	710.2	867.8	934.9	924.1	1412.9	2880.4
22.5°	162.9	190.3	262.3	397.8	588.3	774.1	895.4	933.2	1065.3	1817.5	4217.8
20°	168.5	206.7	290.7	440.3	649.9	832.3	920.6	926.4	1374.0	2958.6	6298.1
17.5°	173.4	221.3	322.7	490.8	699.0	869.5	938.6	920.3	1651.8	3988.0	8579.7
15°	177.8	234.0	350.8	535.0	741.0	887.8	933.6	1114.1	2231.8	5172.7	10686.1
12.5°	181.4	244.9	374.7	572.7	776.8	903.4	929.4	1308.2	2954.3	6782.1	14937.1
10°	184.5	253.9	394.4	603.9	806.4	916.3	925.8	1468.9	3553.5	8119.3	18477.2
7.5°	186.8	260.9	409.9	628.2	829.6	926.4	923.1	1595.2	4024.8	9172.6	21271.0
5°	188.5	265.9	420.9	645.7	846.2	933.7	921.1	1686.0	4364.3	9932.3	23289.0
2.5°	189.6	268.9	427.6	656.2	856.3	938.0	919.9	1740.8	4569.1	10391.1	24509.1
0°	189.9	269.9	429.8	659.7	859.6	939.5	919.5	1759.1	4637.6	10544.6	24917.3
-2.5°	189.6	268.9	427.6	656.2	856.3	938.0	919.9	1740.8	4569.1	10391.1	24509.1
-5°	188.5	265.9	420.9	645.7	846.2	933.7	921.1	1686.0	4364.3	9932.3	23289.0
-7.5°	186.8	260.9	409.9	628.2	829.6	926.4	923.1	1595.2	4024.8	9172.6	21271.0
-10°	184.5	253.9	394.4	603.9	806.4	916.3	925.8	1468.9	3553.5	8119.3	18477.2
-12.5°	181.4	244.9	374.7	572.7	776.8	903.4	929.4	1308.2	2954.3	6782.1	14937.1
-15°	177.8	234.0	350.8	535.0	741.0	887.8	933.6	1114.1	2231.8	5172.7	10686.1
-17.5°	173.4	221.3	322.7	490.8	699.0	869.5	938.6	920.3	1651.8	3988.0	8579.7
-20°	168.5	206.7	290.7	440.3	649.9	832.3	920.6	926.4	1374.0	2958.6	6298.1



REPORT NUMBER: P699913 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-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°	162.9	190.3	262.3	397.8	588.3	774.1	895.4	933.2	1065.3	1817.5	4217.8
-25°	154.7	183.3	242.4	354.4	520.4	710.2	867.8	934.9	924.1	1412.9	2880.4
-27.5°	143.5	175.8	220.7	307.1	446.5	637.8	805.0	902.6	932.8	1021.5	1667.0
-30°	131.3	167.8	197.3	263.0	386.1	551.7	724.3	867.9	929.3	927.0	1221.1
-32.5°	118.3	158.7	183.3	235.7	327.0	460.0	635.4	788.5	889.9	937.5	923.5
-35°	106.6	143.5	173.2	206.7	267.1	383.2	531.1	691.4	831.8	903.3	935.2
-37.5°	97.8	127.3	162.7	184.7	234.0	312.2	424.1	579.1	723.5	853.7	907.8
-40°	88.6	110.3	146.0	172.7	199.4	253.9	344.5	457.2	603.4	734.2	853.7
-42.5°	79.6	99.5	126.6	160.1	179.9	215.1	265.9	360.8	469.1	603.4	723.5
-45°	76.2	88.4	107.9	138.4	165.9	184.3	223.1	269.9	360.8	457.2	579.1
-47.5°	72.7	79.0	95.4	115.9	145.6	168.8	185.8	223.1	265.9	344.5	424.1
-50°	68.1	75.0	82.4	99.6	120.6	148.0	168.8	184.3	215.1	253.9	312.2
-52.5°	60.6	70.9	76.4	85.2	101.0	120.6	145.6	165.9	179.9	199.4	234.0
-55°	52.9	63.3	71.8	76.8	85.2	99.6	115.9	138.4	160.1	172.7	184.7
-57.5°	47.5	54.7	64.2	71.8	76.4	82.4	95.4	107.9	126.6	146.0	162.7
-60°	43.4	47.9	54.7	63.3	70.9	75.0	79.0	88.4	99.5	110.3	127.3
-62.5°	39.2	43.4	47.5	52.9	60.6	68.1	72.7	76.2	79.6	88.6	97.8
-65°	35.0	38.8	42.5	46.1	49.6	56.1	62.7	69.1	72.6	75.6	78.4
-67.5°	30.7	34.1	37.5	40.7	43.9	47.0	49.9	55.6	61.1	66.4	70.7
-70°	26.3	29.4	32.4	35.3	38.1	40.8	43.4	46.0	48.4	51.5	56.0
-72.5°	21.9	24.6	27.2	29.7	32.2	34.6	36.9	39.1	41.2	43.3	45.2
-75°	17.5	19.7	22.0	24.1	26.3	28.3	30.3	32.2	34.0	35.7	37.4
-77.5°	12.9	14.9	16.7	18.5	20.3	22.0	23.6	25.2	26.7	28.2	29.5
-80°	10.0	10.0	11.4	12.9	14.3	15.6	16.9	18.2	19.4	20.6	21.7
-82.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.2	11.2	12.1	13.0	13.8
-85°	9.2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
-87.5°	4.6	5.0	5.4	5.7	6.1	6.4	6.8	7.1	7.4	7.7	7.9
-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: P699913 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-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°	8.2	8.4	8.7	8.9	9.1	9.2	9.4	9.5	9.7	9.8	9.8
85°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
82.5°	14.6	15.3	16.0	16.6	17.2	17.7	18.2	18.6	19.0	19.3	19.5
80°	22.7	23.7	24.6	25.4	26.2	26.9	27.6	28.1	28.6	29.0	29.4
77.5°	30.8	32.1	33.2	34.3	35.3	36.1	36.9	37.7	38.3	38.8	39.2
75°	39.0	40.4	41.8	43.1	44.3	45.3	46.3	47.2	47.9	48.5	49.1
72.5°	47.0	48.8	50.8	53.8	56.5	59.0	61.3	63.3	65.1	66.6	67.8
70°	60.2	64.1	67.8	70.6	72.2	73.7	75.0	76.2	77.2	78.0	78.7
67.5°	73.1	75.3	77.4	79.4	83.5	88.4	92.9	96.8	100.3	103.2	105.6
65°	83.0	90.5	97.6	104.1	110.3	119.5	127.9	135.3	141.8	147.3	151.8
62.5°	106.6	118.3	131.3	143.5	154.7	162.9	168.5	173.4	177.8	181.4	184.5
60°	143.5	158.7	167.8	175.8	183.3	190.3	206.7	221.3	234.0	244.9	253.9
57.5°	173.2	183.3	197.3	220.7	242.4	262.3	290.7	322.7	350.8	374.7	394.4
55°	206.7	235.7	263.0	307.1	354.4	397.8	440.3	490.8	535.0	572.7	603.9
52.5°	267.1	327.0	386.1	446.5	520.4	588.3	649.9	699.0	741.0	776.8	806.4
50°	383.2	460.0	551.7	637.8	710.2	774.1	832.3	869.5	887.8	903.4	916.3
47.5°	531.1	635.4	724.3	805.0	867.8	895.4	920.6	938.6	933.6	929.4	925.8
45°	691.4	788.5	867.9	902.6	934.9	933.2	926.4	920.3	1114.1	1308.2	1468.9
42.5°	831.8	889.9	929.3	932.8	924.1	1065.3	1374.0	1651.8	2231.8	2954.3	3553.5
40°	903.3	937.5	927.0	1021.5	1412.9	1817.5	2958.6	3988.0	5172.7	6782.1	8119.3
37.5°	935.2	923.5	1221.1	1667.0	2880.4	4217.8	6298.1	8579.7	10686.1	14937.1	18477.2
35°	922.3	1322.1	1974.0	3603.5	5669.2	8613.5	12450.7	18444.8	23776.4	28897.2	33310.6
32.5°	1322.1	2152.3	3969.6	6825.2	10193.0	17366.8	24471.5	31815.0	38428.2	43226.1	46411.4
30°	1974.0	3969.6	7213.9	11638.0	20376.1	29128.6	37872.3	44347.9	49092.7	52491.9	53339.3
27.5°	3603.5	6825.2	11638.0	21389.5	31528.3	41516.4	47733.2	52544.3	53797.6	54897.0	55480.7
25°	5669.2	10193.0	20376.1	31528.3	42346.6	49458.7	53198.0	54700.4	55628.9	56381.9	57116.1
22.5°	8613.5	17366.8	29128.6	41516.4	49458.7	53419.0	55065.1	56081.7	57101.9	58096.0	59229.3
20°	12450.7	24471.5	37872.3	47733.2	53198.0	55065.1	56235.3	57491.1	58817.1	60706.3	62696.0
17.5°	18444.8	31815.0	44347.9	52544.3	54700.4	56081.7	57491.1	59178.2	61472.0	65266.8	69116.9
15°	23776.4	38428.2	49092.7	53797.6	55628.9	57101.9	58817.1	61472.0	66148.6	72840.6	81905.2
12.5°	28897.2	43226.1	52491.9	54897.0	56381.9	58096.0	60706.3	65266.8	72840.6	84106.8	105691.3
10°	33310.6	46411.4	53339.3	55480.7	57116.1	59229.3	62696.0	69116.9	81905.2	105691.3	137113.3
7.5°	36801.6	48937.9	54013.7	55945.7	57735.4	60420.1	65517.5	75556.0	95188.7	128033.6	181328.8
5°	39327.7	50770.2	54504.1	56285.1	58189.4	61298.1	67613.6	80579.5	107926.1	153171.5	241410.4
2.5°	40856.9	51881.1	54802.0	56491.7	58466.8	61836.7	68907.1	83704.8	115945.9	172717.1	321218.7
0°	41368.9	52253.3	54901.9	56561.1	58560.1	62018.3	69344.6	84766.7	118689.4	180587.8	352210.0
-2.5°	40856.9	51881.1	54802.0	56491.7	58466.8	61836.7	68907.1	83704.8	115945.9	172717.1	321218.7
-5°	39327.7	50770.2	54504.1	56285.1	58189.4	61298.1	67613.6	80579.5	107926.1	153171.5	241410.4
-7.5°	36801.6	48937.9	54013.7	55945.7	57735.4	60420.1	65517.5	75556.0	95188.7	128033.6	181328.8
-10°	33310.6	46411.4	53339.3	55480.7	57116.1	59229.3	62696.0	69116.9	81905.2	105691.3	137113.3
-12.5°	28897.2	43226.1	52491.9	54897.0	56381.9	58096.0	60706.3	65266.8	72840.6	84106.8	105691.3
-15°	23776.4	38428.2	49092.7	53797.6	55628.9	57101.9	58817.1	61472.0	66148.6	72840.6	81905.2
-17.5°	18444.8	31815.0	44347.9	52544.3	54700.4	56081.7	57491.1	59178.2	61472.0	65266.8	69116.9
-20°	12450.7	24471.5	37872.3	47733.2	53198.0	55065.1	56235.3	57491.1	58817.1	60706.3	62696.0



REPORT NUMBER: P699913 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-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°	8613.5	17366.8	29128.6	41516.4	49458.7	53419.0	55065.1	56081.7	57101.9	58096.0	59229.3
-25°	5669.2	10193.0	20376.1	31528.3	42346.6	49458.7	53198.0	54700.4	55628.9	56381.9	57116.1
-27.5°	3603.5	6825.2	11638.0	21389.5	31528.3	41516.4	47733.2	52544.3	53797.6	54897.0	55480.7
-30°	1974.0	3969.6	7213.9	11638.0	20376.1	29128.6	37872.3	44347.9	49092.7	52491.9	53339.3
-32.5°	1322.1	2152.3	3969.6	6825.2	10193.0	17366.8	24471.5	31815.0	38428.2	43226.1	46411.4
-35°	922.3	1322.1	1974.0	3603.5	5669.2	8613.5	12450.7	18444.8	23776.4	28897.2	33310.6
-37.5°	935.2	923.5	1221.1	1667.0	2880.4	4217.8	6298.1	8579.7	10686.1	14937.1	18477.2
-40°	903.3	937.5	927.0	1021.5	1412.9	1817.5	2958.6	3988.0	5172.7	6782.1	8119.3
-42.5°	831.8	889.9	929.3	932.8	924.1	1065.3	1374.0	1651.8	2231.8	2954.3	3553.5
-45°	691.4	788.5	867.9	902.6	934.9	933.2	926.4	920.3	1114.1	1308.2	1468.9
-47.5°	531.1	635.4	724.3	805.0	867.8	895.4	920.6	938.6	933.6	929.4	925.8
-50°	383.2	460.0	551.7	637.8	710.2	774.1	832.3	869.5	887.8	903.4	916.3
-52.5°	267.1	327.0	386.1	446.5	520.4	588.3	649.9	699.0	741.0	776.8	806.4
-55°	206.7	235.7	263.0	307.1	354.4	397.8	440.3	490.8	535.0	572.7	603.9
-57.5°	173.2	183.3	197.3	220.7	242.4	262.3	290.7	322.7	350.8	374.7	394.4
-60°	143.5	158.7	167.8	175.8	183.3	190.3	206.7	221.3	234.0	244.9	253.9
-62.5°	106.6	118.3	131.3	143.5	154.7	162.9	168.5	173.4	177.8	181.4	184.5
-65°	83.0	90.5	97.6	104.1	110.3	119.5	127.9	135.3	141.8	147.3	151.8
-67.5°	73.1	75.3	77.4	79.4	83.5	88.4	92.9	96.8	100.3	103.2	105.6
-70°	60.2	64.1	67.8	70.6	72.2	73.7	75.0	76.2	77.2	78.0	78.7
-72.5°	47.0	48.8	50.8	53.8	56.5	59.0	61.3	63.3	65.1	66.6	67.8
-75°	39.0	40.4	41.8	43.1	44.3	45.3	46.3	47.2	47.9	48.5	49.1
-77.5°	30.8	32.1	33.2	34.3	35.3	36.1	36.9	37.7	38.3	38.8	39.2
-80°	22.7	23.7	24.6	25.4	26.2	26.9	27.6	28.1	28.6	29.0	29.4
-82.5°	14.6	15.3	16.0	16.6	17.2	17.7	18.2	18.6	19.0	19.3	19.5
-85°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
-87.5°	8.2	8.4	8.7	8.9	9.1	9.2	9.4	9.5	9.7	9.8	9.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699913 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-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°	9.9	10.0	10.0	10.0	10.0	10.0	9.9	9.8	9.8	9.7	9.5
85°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
82.5°	19.7	19.9	20.0	20.0	20.0	19.9	19.7	19.5	19.3	19.0	18.6
80°	29.7	29.8	30.0	30.0	30.0	29.8	29.7	29.4	29.0	28.6	28.1
77.5°	39.6	39.8	40.0	40.0	40.0	39.8	39.6	39.2	38.8	38.3	37.7
75°	49.5	49.8	49.9	50.0	49.9	49.8	49.5	49.1	48.5	47.9	47.2
72.5°	68.8	69.5	69.9	70.0	69.9	69.5	68.8	67.8	66.6	65.1	63.3
70°	79.3	79.7	79.9	80.0	79.9	79.7	79.3	78.7	78.0	77.2	76.2
67.5°	107.5	108.8	109.6	109.9	109.6	108.8	107.5	105.6	103.2	100.3	96.8
65°	155.3	157.9	159.4	159.9	159.4	157.9	155.3	151.8	147.3	141.8	135.3
62.5°	186.8	188.5	189.6	189.9	189.6	188.5	186.8	184.5	181.4	177.8	173.4
60°	260.9	265.9	268.9	269.9	268.9	265.9	260.9	253.9	244.9	234.0	221.3
57.5°	409.9	420.9	427.6	429.8	427.6	420.9	409.9	394.4	374.7	350.8	322.7
55°	628.2	645.7	656.2	659.7	656.2	645.7	628.2	603.9	572.7	535.0	490.8
52.5°	829.6	846.2	856.3	859.6	856.3	846.2	829.6	806.4	776.8	741.0	699.0
50°	926.4	933.7	938.0	939.5	938.0	933.7	926.4	916.3	903.4	887.8	869.5
47.5°	923.1	921.1	919.9	919.5	919.9	921.1	923.1	925.8	929.4	933.6	938.6
45°	1595.2	1686.0	1740.8	1759.1	1740.8	1686.0	1595.2	1468.9	1308.2	1114.1	920.3
42.5°	4024.8	4364.3	4569.1	4637.6	4569.1	4364.3	4024.8	3553.5	2954.3	2231.8	1651.8
40°	9172.6	9932.3	10391.1	10544.6	10391.1	9932.3	9172.6	8119.3	6782.1	5172.7	3988.0
37.5°	21271.0	23289.0	24509.1	24917.3	24509.1	23289.0	21271.0	18477.2	14937.1	10686.1	8579.7
35°	36801.6	39327.7	40856.9	41368.9	40856.9	39327.7	36801.6	33310.6	28897.2	23776.4	18444.8
32.5°	48937.9	50770.2	51881.1	52253.3	51881.1	50770.2	48937.9	46411.4	43226.1	38428.2	31815.0
30°	54013.7	54504.1	54802.0	54901.9	54802.0	54504.1	54013.7	53339.3	52491.9	49092.7	44347.9
27.5°	55945.7	56285.1	56491.7	56561.1	56491.7	56285.1	55945.7	55480.7	54897.0	53797.6	52544.3
25°	57735.4	58189.4	58466.8	58560.1	58466.8	58189.4	57735.4	57116.1	56381.9	55628.9	54700.4
22.5°	60420.1	61298.1	61836.7	62018.3	61836.7	61298.1	60420.1	59229.3	58096.0	57101.9	56081.7
20°	65517.5	67613.6	68907.1	69344.6	68907.1	67613.6	65517.5	62696.0	60706.3	58817.1	57491.1
17.5°	75556.0	80579.5	83704.8	84766.7	83704.8	80579.5	75556.0	69116.9	65266.8	61472.0	59178.2
15°	95188.7	107926.1	115945.9	118689.4	115945.9	107926.1	95188.7	81905.2	72840.6	66148.6	61472.0
12.5°	128033.6	153171.5	172717.1	180587.8	172717.1	153171.5	128033.6	105691.3	84106.8	72840.6	65266.8
10°	181328.8	241410.4	321218.7	352210.0	321218.7	241410.4	181328.8	137113.3	105691.3	81905.2	69116.9
7.5°	292052.8	522017.9	755840.5	833159.3	755840.5	522017.9	292052.8	181328.8	128033.6	95188.7	75556.0
5°	522017.9	916226.2	#####	#####	#####	916226.2	522017.9	241410.4	153171.5	107926.1	80579.5
2.5°	755840.5	#####	#####	#####	#####	755840.5	321218.7	172717.1	115945.9	83704.8	
0°	833159.3	#####	#####	#####	#####	833159.3	352210.0	180587.8	118689.4	84766.7	
-2.5°	755840.5	#####	#####	#####	#####	755840.5	321218.7	172717.1	115945.9	83704.8	
-5°	522017.9	916226.2	#####	#####	#####	916226.2	522017.9	241410.4	153171.5	107926.1	80579.5
-7.5°	292052.8	522017.9	755840.5	833159.3	755840.5	522017.9	292052.8	181328.8	128033.6	95188.7	75556.0
-10°	181328.8	241410.4	321218.7	352210.0	321218.7	241410.4	181328.8	137113.3	105691.3	81905.2	69116.9
-12.5°	128033.6	153171.5	172717.1	180587.8	172717.1	153171.5	128033.6	105691.3	84106.8	72840.6	65266.8
-15°	95188.7	107926.1	115945.9	118689.4	115945.9	107926.1	95188.7	81905.2	72840.6	66148.6	61472.0
-17.5°	75556.0	80579.5	83704.8	84766.7	83704.8	80579.5	75556.0	69116.9	65266.8	61472.0	59178.2
-20°	65517.5	67613.6	68907.1	69344.6	68907.1	67613.6	65517.5	62696.0	60706.3	58817.1	57491.1



REPORT NUMBER: P699913 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-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°	60420.1	61298.1	61836.7	62018.3	61836.7	61298.1	60420.1	59229.3	58096.0	57101.9	56081.7
-25°	57735.4	58189.4	58466.8	58560.1	58466.8	58189.4	57735.4	57116.1	56381.9	55628.9	54700.4
-27.5°	55945.7	56285.1	56491.7	56561.1	56491.7	56285.1	55945.7	55480.7	54897.0	53797.6	52544.3
-30°	54013.7	54504.1	54802.0	54901.9	54802.0	54504.1	54013.7	53339.3	52491.9	49092.7	44347.9
-32.5°	48937.9	50770.2	51881.1	52253.3	51881.1	50770.2	48937.9	46411.4	43226.1	38428.2	31815.0
-35°	36801.6	39327.7	40856.9	41368.9	40856.9	39327.7	36801.6	33310.6	28897.2	23776.4	18444.8
-37.5°	21271.0	23289.0	24509.1	24917.3	24509.1	23289.0	21271.0	18477.2	14937.1	10686.1	8579.7
-40°	9172.6	9932.3	10391.1	10544.6	10391.1	9932.3	9172.6	8119.3	6782.1	5172.7	3988.0
-42.5°	4024.8	4364.3	4569.1	4637.6	4569.1	4364.3	4024.8	3553.5	2954.3	2231.8	1651.8
-45°	1595.2	1686.0	1740.8	1759.1	1740.8	1686.0	1595.2	1468.9	1308.2	1114.1	920.3
-47.5°	923.1	921.1	919.9	919.5	919.9	921.1	923.1	925.8	929.4	933.6	938.6
-50°	926.4	933.7	938.0	939.5	938.0	933.7	926.4	916.3	903.4	887.8	869.5
-52.5°	829.6	846.2	856.3	859.6	856.3	846.2	829.6	806.4	776.8	741.0	699.0
-55°	628.2	645.7	656.2	659.7	656.2	645.7	628.2	603.9	572.7	535.0	490.8
-57.5°	409.9	420.9	427.6	429.8	427.6	420.9	409.9	394.4	374.7	350.8	322.7
-60°	260.9	265.9	268.9	269.9	268.9	265.9	260.9	253.9	244.9	234.0	221.3
-62.5°	186.8	188.5	189.6	189.9	189.6	188.5	186.8	184.5	181.4	177.8	173.4
-65°	155.3	157.9	159.4	159.9	159.4	157.9	155.3	151.8	147.3	141.8	135.3
-67.5°	107.5	108.8	109.6	109.9	109.6	108.8	107.5	105.6	103.2	100.3	96.8
-70°	79.3	79.7	79.9	80.0	79.9	79.7	79.3	78.7	78.0	77.2	76.2
-72.5°	68.8	69.5	69.9	70.0	69.9	69.5	68.8	67.8	66.6	65.1	63.3
-75°	49.5	49.8	49.9	50.0	49.9	49.8	49.5	49.1	48.5	47.9	47.2
-77.5°	39.6	39.8	40.0	40.0	40.0	39.8	39.6	39.2	38.8	38.3	37.7
-80°	29.7	29.8	30.0	30.0	30.0	29.8	29.7	29.4	29.0	28.6	28.1
-82.5°	19.7	19.9	20.0	20.0	20.0	19.9	19.7	19.5	19.3	19.0	18.6
-85°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
-87.5°	9.9	10.0	10.0	10.0	10.0	10.0	9.9	9.8	9.8	9.7	9.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P699913 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-57-70-3R-S

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°	9.4	9.2	9.1	8.9	8.7	8.4	8.2	7.9	7.7	7.4	7.1
85°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
82.5°	18.2	17.7	17.2	16.6	16.0	15.3	14.6	13.8	13.0	12.1	11.2
80°	27.6	26.9	26.2	25.4	24.6	23.7	22.7	21.7	20.6	19.4	18.2
77.5°	36.9	36.1	35.3	34.3	33.2	32.1	30.8	29.5	28.2	26.7	25.2
75°	46.3	45.3	44.3	43.1	41.8	40.4	39.0	37.4	35.7	34.0	32.2
72.5°	61.3	59.0	56.5	53.8	50.8	48.8	47.0	45.2	43.3	41.2	39.1
70°	75.0	73.7	72.2	70.6	67.8	64.1	60.2	56.0	51.5	48.4	46.0
67.5°	92.9	88.4	83.5	79.4	77.4	75.3	73.1	70.7	66.4	61.1	55.6
65°	127.9	119.5	110.3	104.1	97.6	90.5	83.0	78.4	75.6	72.6	69.1
62.5°	168.5	162.9	154.7	143.5	131.3	118.3	106.6	97.8	88.6	79.6	76.2
60°	206.7	190.3	183.3	175.8	167.8	158.7	143.5	127.3	110.3	99.5	88.4
57.5°	290.7	262.3	242.4	220.7	197.3	183.3	173.2	162.7	146.0	126.6	107.9
55°	440.3	397.8	354.4	307.1	263.0	235.7	206.7	184.7	172.7	160.1	138.4
52.5°	649.9	588.3	520.4	446.5	386.1	327.0	267.1	234.0	199.4	179.9	165.9
50°	832.3	774.1	710.2	637.8	551.7	460.0	383.2	312.2	253.9	215.1	184.3
47.5°	920.6	895.4	867.8	805.0	724.3	635.4	531.1	424.1	344.5	265.9	223.1
45°	926.4	933.2	934.9	902.6	867.9	788.5	691.4	579.1	457.2	360.8	269.9
42.5°	1374.0	1065.3	924.1	932.8	929.3	889.9	831.8	723.5	603.4	469.1	360.8
40°	2958.6	1817.5	1412.9	1021.5	927.0	937.5	903.3	853.7	734.2	603.4	457.2
37.5°	6298.1	4217.8	2880.4	1667.0	1221.1	923.5	935.2	907.8	853.7	723.5	579.1
35°	12450.7	8613.5	5669.2	3603.5	1974.0	1322.1	922.3	935.2	903.3	831.8	691.4
32.5°	24471.5	17366.8	10193.0	6825.2	3969.6	2152.3	1322.1	923.5	937.5	889.9	788.5
30°	37872.3	29128.6	20376.1	11638.0	7213.9	3969.6	1974.0	1221.1	927.0	929.3	867.9
27.5°	47733.2	41516.4	31528.3	21389.5	11638.0	6825.2	3603.5	1667.0	1021.5	932.8	902.6
25°	53198.0	49458.7	42346.6	31528.3	20376.1	10193.0	5669.2	2880.4	1412.9	924.1	934.9
22.5°	55065.1	53419.0	49458.7	41516.4	29128.6	17366.8	8613.5	4217.8	1817.5	1065.3	933.2
20°	56235.3	55065.1	53198.0	47733.2	37872.3	24471.5	12450.7	6298.1	2958.6	1374.0	926.4
17.5°	57491.1	56081.7	54700.4	52544.3	44347.9	31815.0	18444.8	8579.7	3988.0	1651.8	920.3
15°	58817.1	57101.9	55628.9	53797.6	49092.7	38428.2	23776.4	10686.1	5172.7	2231.8	1114.1
12.5°	60706.3	58096.0	56381.9	54897.0	52491.9	43226.1	28897.2	14937.1	6782.1	2954.3	1308.2
10°	62696.0	59229.3	57116.1	55480.7	53339.3	46411.4	33310.6	18477.2	8119.3	3553.5	1468.9
7.5°	65517.5	60420.1	57735.4	55945.7	54013.7	48937.9	36801.6	21271.0	9172.6	4024.8	1595.2
5°	67613.6	61298.1	58189.4	56285.1	54504.1	50770.2	39327.7	23289.0	9932.3	4364.3	1686.0
2.5°	68907.1	61836.7	58466.8	56491.7	54802.0	51881.1	40856.9	24509.1	10391.1	4569.1	1740.8
0°	69344.6	62018.3	58560.1	56561.1	54901.9	52253.3	41368.9	24917.3	10544.6	4637.6	1759.1
-2.5°	68907.1	61836.7	58466.8	56491.7	54802.0	51881.1	40856.9	24509.1	10391.1	4569.1	1740.8
-5°	67613.6	61298.1	58189.4	56285.1	54504.1	50770.2	39327.7	23289.0	9932.3	4364.3	1686.0
-7.5°	65517.5	60420.1	57735.4	55945.7	54013.7	48937.9	36801.6	21271.0	9172.6	4024.8	1595.2
-10°	62696.0	59229.3	57116.1	55480.7	53339.3	46411.4	33310.6	18477.2	8119.3	3553.5	1468.9
-12.5°	60706.3	58096.0	56381.9	54897.0	52491.9	43226.1	28897.2	14937.1	6782.1	2954.3	1308.2
-15°	58817.1	57101.9	55628.9	53797.6	49092.7	38428.2	23776.4	10686.1	5172.7	2231.8	1114.1
-17.5°	57491.1	56081.7	54700.4	52544.3	44347.9	31815.0	18444.8	8579.7	3988.0	1651.8	920.3
-20°	56235.3	55065.1	53198.0	47733.2	37872.3	24471.5	12450.7	6298.1	2958.6	1374.0	926.4



REPORT NUMBER: P699913 (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°	55065.1	53419.0	49458.7	41516.4	29128.6	17366.8	8613.5	4217.8	1817.5	1065.3	933.2
-25°	53198.0	49458.7	42346.6	31528.3	20376.1	10193.0	5669.2	2880.4	1412.9	924.1	934.9
-27.5°	47733.2	41516.4	31528.3	21389.5	11638.0	6825.2	3603.5	1667.0	1021.5	932.8	902.6
-30°	37872.3	29128.6	20376.1	11638.0	7213.9	3969.6	1974.0	1221.1	927.0	929.3	867.9
-32.5°	24471.5	17366.8	10193.0	6825.2	3969.6	2152.3	1322.1	923.5	937.5	889.9	788.5
-35°	12450.7	8613.5	5669.2	3603.5	1974.0	1322.1	922.3	935.2	903.3	831.8	691.4
-37.5°	6298.1	4217.8	2880.4	1667.0	1221.1	923.5	935.2	907.8	853.7	723.5	579.1
-40°	2958.6	1817.5	1412.9	1021.5	927.0	937.5	903.3	853.7	734.2	603.4	457.2
-42.5°	1374.0	1065.3	924.1	932.8	929.3	889.9	831.8	723.5	603.4	469.1	360.8
-45°	926.4	933.2	934.9	902.6	867.9	788.5	691.4	579.1	457.2	360.8	269.9
-47.5°	920.6	895.4	867.8	805.0	724.3	635.4	531.1	424.1	344.5	265.9	223.1
-50°	832.3	774.1	710.2	637.8	551.7	460.0	383.2	312.2	253.9	215.1	184.3
-52.5°	649.9	588.3	520.4	446.5	386.1	327.0	267.1	234.0	199.4	179.9	165.9
-55°	440.3	397.8	354.4	307.1	263.0	235.7	206.7	184.7	172.7	160.1	138.4
-57.5°	290.7	262.3	242.4	220.7	197.3	183.3	173.2	162.7	146.0	126.6	107.9
-60°	206.7	190.3	183.3	175.8	167.8	158.7	143.5	127.3	110.3	99.5	88.4
-62.5°	168.5	162.9	154.7	143.5	131.3	118.3	106.6	97.8	88.6	79.6	76.2
-65°	127.9	119.5	110.3	104.1	97.6	90.5	83.0	78.4	75.6	72.6	69.1
-67.5°	92.9	88.4	83.5	79.4	77.4	75.3	73.1	70.7	66.4	61.1	55.6
-70°	75.0	73.7	72.2	70.6	67.8	64.1	60.2	56.0	51.5	48.4	46.0
-72.5°	61.3	59.0	56.5	53.8	50.8	48.8	47.0	45.2	43.3	41.2	39.1
-75°	46.3	45.3	44.3	43.1	41.8	40.4	39.0	37.4	35.7	34.0	32.2
-77.5°	36.9	36.1	35.3	34.3	33.2	32.1	30.8	29.5	28.2	26.7	25.2
-80°	27.6	26.9	26.2	25.4	24.6	23.7	22.7	21.7	20.6	19.4	18.2
-82.5°	18.2	17.7	17.2	16.6	16.0	15.3	14.6	13.8	13.0	12.1	11.2
-85°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
-87.5°	9.4	9.2	9.1	8.9	8.7	8.4	8.2	7.9	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: P699913 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200L-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	6.4	6.1	5.7	5.4	5.0	4.6	4.2	3.8	3.4	3.0
85°	10.0	10.0	10.0	10.0	10.0	10.0	9.2	8.4	7.6	6.8	6.0
82.5°	10.2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0
80°	16.9	15.6	14.3	12.9	11.4	10.0	10.0	10.0	10.0	10.0	10.0
77.5°	23.6	22.0	20.3	18.5	16.7	14.9	12.9	11.0	10.0	10.0	10.0
75°	30.3	28.3	26.3	24.1	22.0	19.7	17.5	15.1	12.7	10.3	10.0
72.5°	36.9	34.6	32.2	29.7	27.2	24.6	21.9	19.2	16.4	13.6	10.8
70°	43.4	40.8	38.1	35.3	32.4	29.4	26.3	23.2	20.1	16.9	13.6
67.5°	49.9	47.0	43.9	40.7	37.5	34.1	30.7	27.2	23.7	20.1	16.4
65°	62.7	56.1	49.6	46.1	42.5	38.8	35.0	31.2	27.2	23.2	19.2
62.5°	72.7	68.1	60.6	52.9	47.5	43.4	39.2	35.0	30.7	26.3	21.9
60°	79.0	75.0	70.9	63.3	54.7	47.9	43.4	38.8	34.1	29.4	24.6
57.5°	95.4	82.4	76.4	71.8	64.2	54.7	47.5	42.5	37.5	32.4	27.2
55°	115.9	99.6	85.2	76.8	71.8	63.3	52.9	46.1	40.7	35.3	29.7
52.5°	145.6	120.6	101.0	85.2	76.4	70.9	60.6	49.6	43.9	38.1	32.2
50°	168.8	148.0	120.6	99.6	82.4	75.0	68.1	56.1	47.0	40.8	34.6
47.5°	185.8	168.8	145.6	115.9	95.4	79.0	72.7	62.7	49.9	43.4	36.9
45°	223.1	184.3	165.9	138.4	107.9	88.4	76.2	69.1	55.6	46.0	39.1
42.5°	265.9	215.1	179.9	160.1	126.6	99.5	79.6	72.6	61.1	48.4	41.2
40°	344.5	253.9	199.4	172.7	146.0	110.3	88.6	75.6	66.4	51.5	43.3
37.5°	424.1	312.2	234.0	184.7	162.7	127.3	97.8	78.4	70.7	56.0	45.2
35°	531.1	383.2	267.1	206.7	173.2	143.5	106.6	83.0	73.1	60.2	47.0
32.5°	635.4	460.0	327.0	235.7	183.3	158.7	118.3	90.5	75.3	64.1	48.8
30°	724.3	551.7	386.1	263.0	197.3	167.8	131.3	97.6	77.4	67.8	50.8
27.5°	805.0	637.8	446.5	307.1	220.7	175.8	143.5	104.1	79.4	70.6	53.8
25°	867.8	710.2	520.4	354.4	242.4	183.3	154.7	110.3	83.5	72.2	56.5
22.5°	895.4	774.1	588.3	397.8	262.3	190.3	162.9	119.5	88.4	73.7	59.0
20°	920.6	832.3	649.9	440.3	290.7	206.7	168.5	127.9	92.9	75.0	61.3
17.5°	938.6	869.5	699.0	490.8	322.7	221.3	173.4	135.3	96.8	76.2	63.3
15°	933.6	887.8	741.0	535.0	350.8	234.0	177.8	141.8	100.3	77.2	65.1
12.5°	929.4	903.4	776.8	572.7	374.7	244.9	181.4	147.3	103.2	78.0	66.6
10°	925.8	916.3	806.4	603.9	394.4	253.9	184.5	151.8	105.6	78.7	67.8
7.5°	923.1	926.4	829.6	628.2	409.9	260.9	186.8	155.3	107.5	79.3	68.8
5°	921.1	933.7	846.2	645.7	420.9	265.9	188.5	157.9	108.8	79.7	69.5
2.5°	919.9	938.0	856.3	656.2	427.6	268.9	189.6	159.4	109.6	79.9	69.9
0°	919.5	939.5	859.6	659.7	429.8	269.9	189.9	159.9	109.9	80.0	70.0
-2.5°	919.9	938.0	856.3	656.2	427.6	268.9	189.6	159.4	109.6	79.9	69.9
-5°	921.1	933.7	846.2	645.7	420.9	265.9	188.5	157.9	108.8	79.7	69.5
-7.5°	923.1	926.4	829.6	628.2	409.9	260.9	186.8	155.3	107.5	79.3	68.8
-10°	925.8	916.3	806.4	603.9	394.4	253.9	184.5	151.8	105.6	78.7	67.8
-12.5°	929.4	903.4	776.8	572.7	374.7	244.9	181.4	147.3	103.2	78.0	66.6
-15°	933.6	887.8	741.0	535.0	350.8	234.0	177.8	141.8	100.3	77.2	65.1
-17.5°	938.6	869.5	699.0	490.8	322.7	221.3	173.4	135.3	96.8	76.2	63.3
-20°	920.6	832.3	649.9	440.3	290.7	206.7	168.5	127.9	92.9	75.0	61.3



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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°	895.4	774.1	588.3	397.8	262.3	190.3	162.9	119.5	88.4	73.7	59.0
-25°	867.8	710.2	520.4	354.4	242.4	183.3	154.7	110.3	83.5	72.2	56.5
-27.5°	805.0	637.8	446.5	307.1	220.7	175.8	143.5	104.1	79.4	70.6	53.8
-30°	724.3	551.7	386.1	263.0	197.3	167.8	131.3	97.6	77.4	67.8	50.8
-32.5°	635.4	460.0	327.0	235.7	183.3	158.7	118.3	90.5	75.3	64.1	48.8
-35°	531.1	383.2	267.1	206.7	173.2	143.5	106.6	83.0	73.1	60.2	47.0
-37.5°	424.1	312.2	234.0	184.7	162.7	127.3	97.8	78.4	70.7	56.0	45.2
-40°	344.5	253.9	199.4	172.7	146.0	110.3	88.6	75.6	66.4	51.5	43.3
-42.5°	265.9	215.1	179.9	160.1	126.6	99.5	79.6	72.6	61.1	48.4	41.2
-45°	223.1	184.3	165.9	138.4	107.9	88.4	76.2	69.1	55.6	46.0	39.1
-47.5°	185.8	168.8	145.6	115.9	95.4	79.0	72.7	62.7	49.9	43.4	36.9
-50°	168.8	148.0	120.6	99.6	82.4	75.0	68.1	56.1	47.0	40.8	34.6
-52.5°	145.6	120.6	101.0	85.2	76.4	70.9	60.6	49.6	43.9	38.1	32.2
-55°	115.9	99.6	85.2	76.8	71.8	63.3	52.9	46.1	40.7	35.3	29.7
-57.5°	95.4	82.4	76.4	71.8	64.2	54.7	47.5	42.5	37.5	32.4	27.2
-60°	79.0	75.0	70.9	63.3	54.7	47.9	43.4	38.8	34.1	29.4	24.6
-62.5°	72.7	68.1	60.6	52.9	47.5	43.4	39.2	35.0	30.7	26.3	21.9
-65°	62.7	56.1	49.6	46.1	42.5	38.8	35.0	31.2	27.2	23.2	19.2
-67.5°	49.9	47.0	43.9	40.7	37.5	34.1	30.7	27.2	23.7	20.1	16.4
-70°	43.4	40.8	38.1	35.3	32.4	29.4	26.3	23.2	20.1	16.9	13.6
-72.5°	36.9	34.6	32.2	29.7	27.2	24.6	21.9	19.2	16.4	13.6	10.8
-75°	30.3	28.3	26.3	24.1	22.0	19.7	17.5	15.1	12.7	10.3	10.0
-77.5°	23.6	22.0	20.3	18.5	16.7	14.9	12.9	11.0	10.0	10.0	10.0
-80°	16.9	15.6	14.3	12.9	11.4	10.0	10.0	10.0	10.0	10.0	10.0
-82.5°	10.2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0
-85°	10.0	10.0	10.0	10.0	10.0	10.0	9.2	8.4	7.6	6.8	6.0
-87.5°	6.8	6.4	6.1	5.7	5.4	5.0	4.6	4.2	3.8	3.4	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	1.7	1.3	0.9	0.4	0.0
85°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
82.5°	7.7	6.5	5.2	3.9	2.6	1.3	0.0
80°	10.0	8.6	6.9	5.2	3.5	1.7	0.0
77.5°	10.0	10.0	8.6	6.5	4.3	2.2	0.0
75°	10.0	10.0	10.0	7.7	5.2	2.6	0.0
72.5°	10.0	10.0	10.0	9.0	6.0	3.0	0.0
70°	10.3	10.0	10.0	10.0	6.8	3.4	0.0
67.5°	12.7	10.0	10.0	10.0	7.6	3.8	0.0
65°	15.1	11.0	10.0	10.0	8.4	4.2	0.0
62.5°	17.5	12.9	10.0	10.0	9.2	4.6	0.0
60°	19.7	14.9	10.0	10.0	10.0	5.0	0.0
57.5°	22.0	16.7	11.4	10.0	10.0	5.4	0.0
55°	24.1	18.5	12.9	10.0	10.0	5.7	0.0
52.5°	26.3	20.3	14.3	10.0	10.0	6.1	0.0
50°	28.3	22.0	15.6	10.0	10.0	6.4	0.0
47.5°	30.3	23.6	16.9	10.2	10.0	6.8	0.0
45°	32.2	25.2	18.2	11.2	10.0	7.1	0.0
42.5°	34.0	26.7	19.4	12.1	10.0	7.4	0.0
40°	35.7	28.2	20.6	13.0	10.0	7.7	0.0
37.5°	37.4	29.5	21.7	13.8	10.0	7.9	0.0
35°	39.0	30.8	22.7	14.6	10.0	8.2	0.0
32.5°	40.4	32.1	23.7	15.3	10.0	8.4	0.0
30°	41.8	33.2	24.6	16.0	10.0	8.7	0.0
27.5°	43.1	34.3	25.4	16.6	10.0	8.9	0.0
25°	44.3	35.3	26.2	17.2	10.0	9.1	0.0
22.5°	45.3	36.1	26.9	17.7	10.0	9.2	0.0
20°	46.3	36.9	27.6	18.2	10.0	9.4	0.0
17.5°	47.2	37.7	28.1	18.6	10.0	9.5	0.0
15°	47.9	38.3	28.6	19.0	10.0	9.7	0.0
12.5°	48.5	38.8	29.0	19.3	10.0	9.8	0.0
10°	49.1	39.2	29.4	19.5	10.0	9.8	0.0
7.5°	49.5	39.6	29.7	19.7	10.0	9.9	0.0
5°	49.8	39.8	29.8	19.9	10.0	10.0	0.0
2.5°	49.9	40.0	30.0	20.0	10.0	10.0	0.0
0°	50.0	40.0	30.0	20.0	10.0	10.0	0.0
-2.5°	49.9	40.0	30.0	20.0	10.0	10.0	0.0
-5°	49.8	39.8	29.8	19.9	10.0	10.0	0.0
-7.5°	49.5	39.6	29.7	19.7	10.0	9.9	0.0
-10°	49.1	39.2	29.4	19.5	10.0	9.8	0.0
-12.5°	48.5	38.8	29.0	19.3	10.0	9.8	0.0
-15°	47.9	38.3	28.6	19.0	10.0	9.7	0.0
-17.5°	47.2	37.7	28.1	18.6	10.0	9.5	0.0
-20°	46.3	36.9	27.6	18.2	10.0	9.4	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	45.3	36.1	26.9	17.7	10.0	9.2	0.0
-25°	44.3	35.3	26.2	17.2	10.0	9.1	0.0
-27.5°	43.1	34.3	25.4	16.6	10.0	8.9	0.0
-30°	41.8	33.2	24.6	16.0	10.0	8.7	0.0
-32.5°	40.4	32.1	23.7	15.3	10.0	8.4	0.0
-35°	39.0	30.8	22.7	14.6	10.0	8.2	0.0
-37.5°	37.4	29.5	21.7	13.8	10.0	7.9	0.0
-40°	35.7	28.2	20.6	13.0	10.0	7.7	0.0
-42.5°	34.0	26.7	19.4	12.1	10.0	7.4	0.0
-45°	32.2	25.2	18.2	11.2	10.0	7.1	0.0
-47.5°	30.3	23.6	16.9	10.2	10.0	6.8	0.0
-50°	28.3	22.0	15.6	10.0	10.0	6.4	0.0
-52.5°	26.3	20.3	14.3	10.0	10.0	6.1	0.0
-55°	24.1	18.5	12.9	10.0	10.0	5.7	0.0
-57.5°	22.0	16.7	11.4	10.0	10.0	5.4	0.0
-60°	19.7	14.9	10.0	10.0	10.0	5.0	0.0
-62.5°	17.5	12.9	10.0	10.0	9.2	4.6	0.0
-65°	15.1	11.0	10.0	10.0	8.4	4.2	0.0
-67.5°	12.7	10.0	10.0	10.0	7.6	3.8	0.0
-70°	10.3	10.0	10.0	10.0	6.8	3.4	0.0
-72.5°	10.0	10.0	10.0	9.0	6.0	3.0	0.0
-75°	10.0	10.0	10.0	7.7	5.2	2.6	0.0
-77.5°	10.0	10.0	8.6	6.5	4.3	2.2	0.0
-80°	10.0	8.6	6.9	5.2	3.5	1.7	0.0
-82.5°	7.7	6.5	5.2	3.9	2.6	1.3	0.0
-85°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
-87.5°	2.6	2.2	1.7	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)