

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: P699957 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-1200R-40-80-5R-S**

Issue Date: 8/10/2023

Test Information

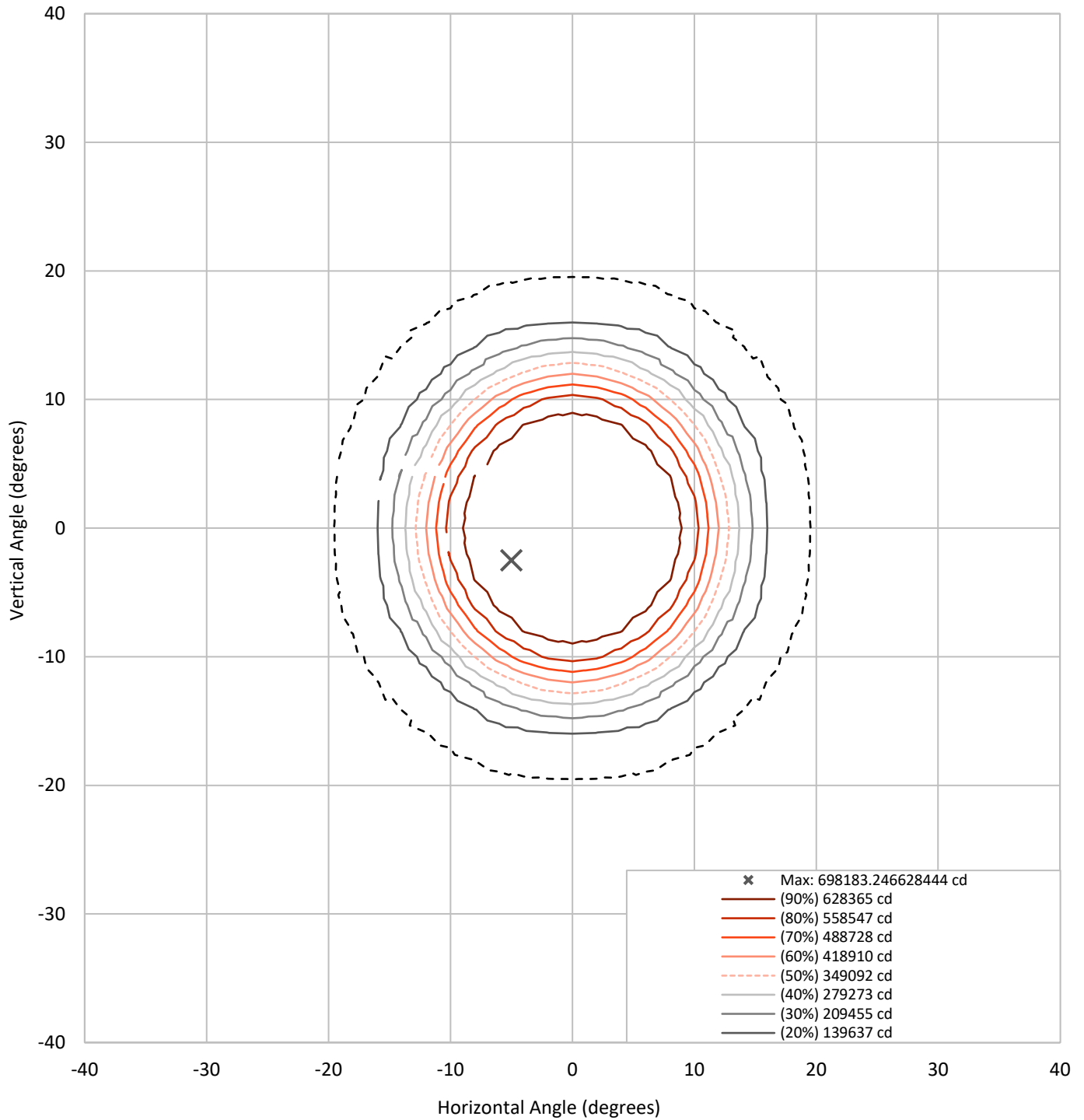
Test Method: LM-79-08
Report Number: P699957 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-51)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-LS-16-1200R-40-80-5R-S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 4000K, 80 CRI LEDS AND 5R BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	167930.6 lumens	Max Intensity:	698183.2 candela
Efficiency:	N/A	Max Intensity Angle:	-5°H x -2.5°V
Efficacy:	130.3 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	25.1°H x 23.6°V	Field Angle (10%):	38.9°H x 38.4°V
Beam Lumens:	89398.2 lumens	Field Lumens:	124510.3 lumens
Beam Efficiency:	53.2%	Field Efficiency:	74.1%
Input Watts (W):	1288.4		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot



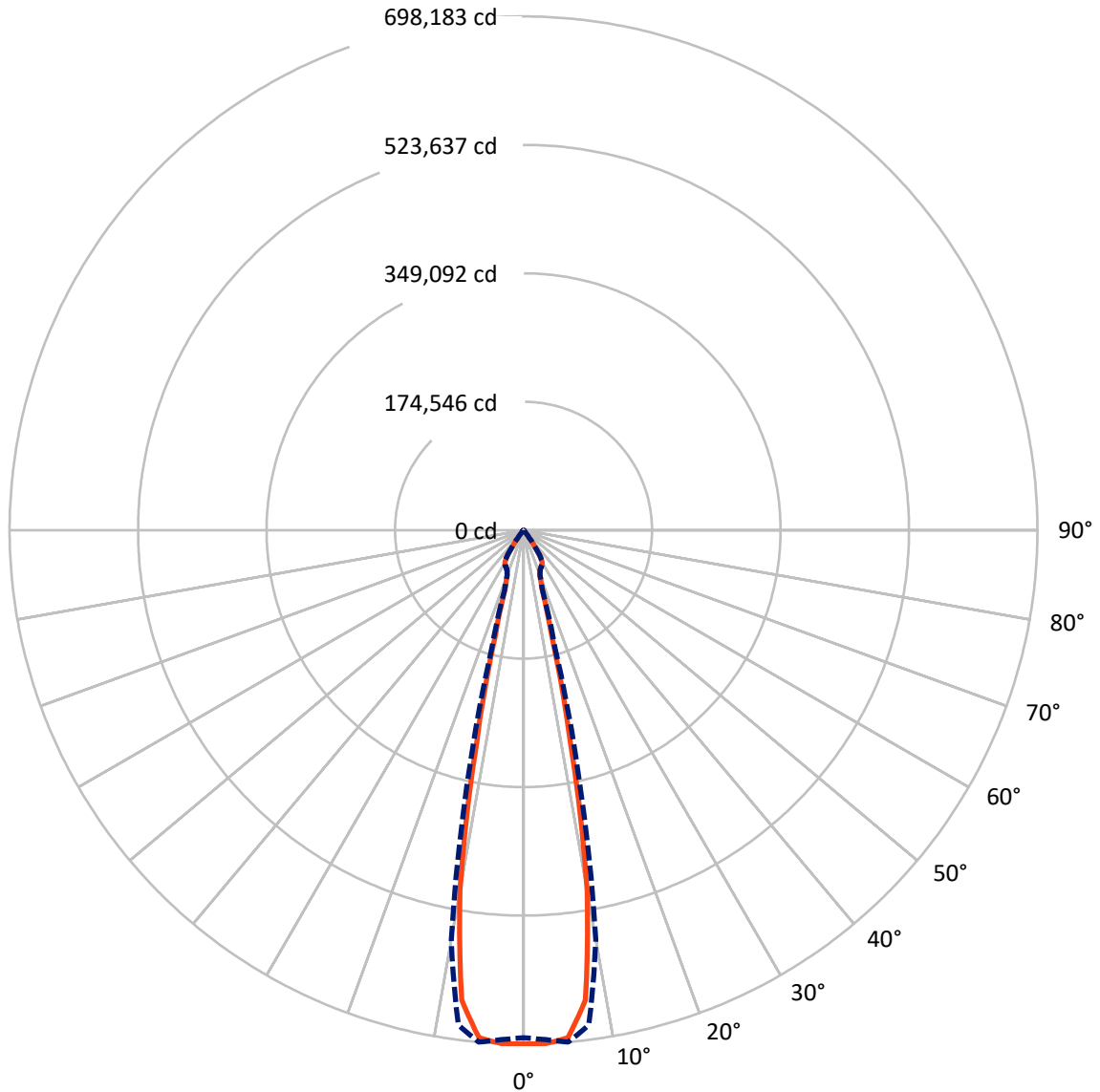
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Lumen Table

90	0.1	0.8		2.2		3.7		4.4		3.7		2.2		0.8		0.1
80	0.1	0.8		2.2		3.7		4.4		3.7		2.2		0.8		0.1
70	0.4	0.4	0.9	1.6	2.4	3.2	3.8	4.1	4.1	3.8	3.2	2.4	1.6	0.9	0.4	0.4
60		0.7	1.6	2.7	4.4	7.5	11.4	13.9	13.9	11.4	7.5	4.4	2.7	1.6	0.7	
50	0.7	1.0	2.2	4.8	12.2	22.1	30.4	38.5	38.5	30.4	22.1	12.2	4.8	2.2	1.0	0.7
40		1.3	3.1	10.6	23.8	88.7	420.3	757.2	757.2	420.3	88.7	23.8	10.6	3.1	1.3	
30	1.0	1.5	4.8	17.3	81.1	758.6	1475.6	1699.2	1699.2	1475.6	758.6	81.1	17.3	4.8	1.5	1.0
20		1.7	6.9	22.5	363.9	1386.5	2115.8	5757.0	5757.0	2115.8	1386.5	363.9	22.5	6.9	1.7	
10	1.1	1.8	8.3	27.7	635.1	1547.8	5619.0	18964.2	18964.2	5619.0	1547.8	635.1	27.7	8.3	1.8	1.1
0		1.8	8.3	27.7	635.1	1547.8	5619.0	18964.2	18964.2	5619.0	1547.8	635.1	27.7	8.3	1.8	
-10	1.0	1.7	6.9	22.5	363.9	1386.5	2115.8	5757.0	5757.0	2115.8	1386.5	363.9	22.5	6.9	1.7	1.0
-20		1.5	4.8	17.3	81.1	758.6	1475.6	1699.2	1699.2	1475.6	758.6	81.1	17.3	4.8	1.5	
-30	0.7	1.3	3.1	10.6	23.8	88.7	420.3	757.2	757.2	420.3	88.7	23.8	10.6	3.1	1.3	0.7
-40		1.0	2.2	4.8	12.2	22.1	30.4	38.5	38.5	30.4	22.1	12.2	4.8	2.2	1.0	
-50	0.4	0.7	1.6	2.7	4.4	7.5	11.4	13.9	13.9	11.4	7.5	4.4	2.7	1.6	0.7	0.4
-60		0.4	0.9	1.6	2.4	3.2	3.8	4.1	4.1	3.8	3.2	2.4	1.6	0.9	0.4	
-70	0.1	0.8		2.2		3.7		4.4		3.7		2.2		0.8		0.1
-80		0.8		2.2		3.7		4.4		3.7		2.2		0.8		
-90	0.1	0.8		2.2		3.7		4.4		3.7		2.2		0.8		0.1

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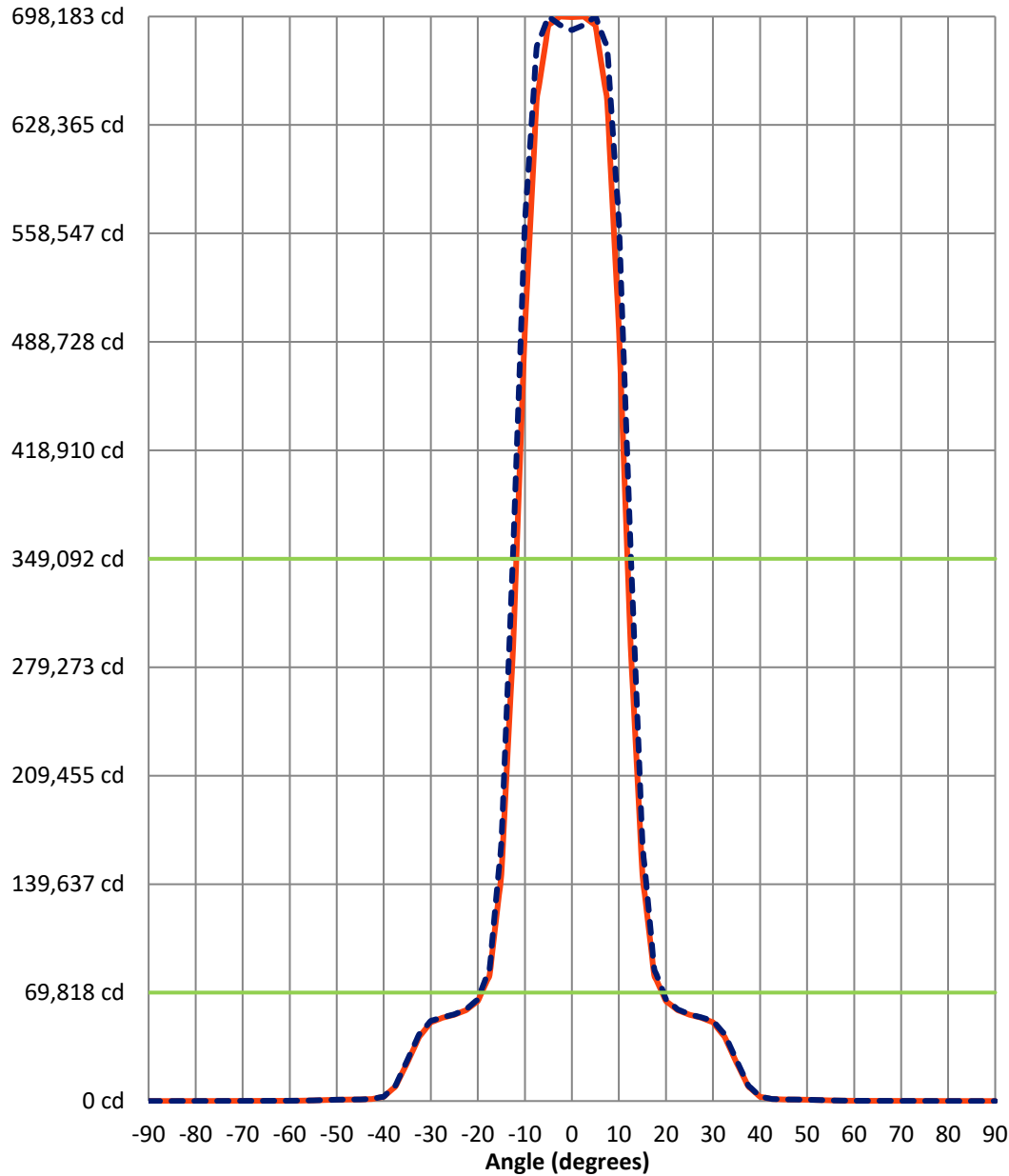
Luminous Intensity Polar Plot



— Vertical Distribution Through -5-Deg - - - Horizontal Distribution Through -2.5-Deg

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Luminous Intensity Plot



Beam:
H Angle: 25.1°
V Angle: 23.6°
Lumens: 89398.2
Efficiency: 53.2%

Field:
H Angle: 38.9°
V Angle: 38.4°
Lumens: 124510.3
Efficiency: 74.1%

Spill:
Lumens: 43420.3
Efficiency: 25.9%

— Vertical Distribution through -5-Deg
- - Horizontal Distribution through -2.5-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	0.2	0.5	0.7	1.0	1.2	1.5	1.7	1.9	2.2	2.4
85°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.9	4.4	4.8
82.5°	0.0	0.7	1.5	2.2	3.0	3.7	4.4	5.1	5.8	6.5	7.2
80°	0.0	1.0	2.0	3.0	3.9	4.9	5.9	6.8	7.8	8.7	9.6
77.5°	0.0	1.2	2.5	3.7	4.9	6.1	7.3	8.5	9.7	10.8	12.3
75°	0.0	1.5	2.9	4.4	5.9	7.3	8.8	10.2	11.7	13.8	15.8
72.5°	0.0	1.7	3.4	5.1	6.8	8.5	10.2	12.0	14.5	16.9	19.3
70°	0.0	1.9	3.9	5.8	7.8	9.7	11.7	14.5	17.3	20.1	23.4
67.5°	0.0	2.2	4.4	6.5	8.7	10.8	13.8	16.9	20.1	23.8	27.5
65°	0.0	2.4	4.8	7.2	9.6	12.3	15.8	19.3	23.4	27.5	31.8
62.5°	0.0	2.6	5.3	7.9	10.5	13.9	17.8	22.0	26.6	31.3	36.6
60°	0.0	2.8	5.7	8.5	11.4	15.6	19.8	24.8	29.8	35.5	41.3
57.5°	0.0	3.1	6.1	9.2	12.6	17.2	22.1	27.5	33.3	39.7	46.3
55°	0.0	3.3	6.5	9.8	13.9	18.7	24.3	30.1	36.9	43.8	51.5
52.5°	0.0	3.5	6.9	10.4	15.1	20.3	26.5	33.1	40.4	48.3	56.5
50°	0.0	3.7	7.3	11.0	16.2	22.1	28.6	36.1	43.9	52.7	63.4
47.5°	0.0	3.9	7.7	11.6	17.4	23.8	30.7	38.9	47.7	56.9	70.3
45°	0.0	4.0	8.1	12.4	18.5	25.4	33.1	41.7	51.3	62.9	77.0
42.5°	0.0	4.2	8.4	13.2	19.5	27.0	35.4	44.6	54.8	68.6	82.1
40°	0.0	4.4	8.7	13.9	20.6	28.5	37.5	47.4	58.6	74.1	86.9
37.5°	0.0	4.5	9.0	14.6	21.7	29.9	39.6	50.2	63.2	79.0	91.4
35°	0.0	4.7	9.3	15.3	22.8	31.5	41.5	52.8	67.6	82.9	95.9
32.5°	0.0	4.8	9.6	15.9	23.8	33.0	43.4	55.2	71.8	86.5	100.4
30°	0.0	4.9	9.9	16.5	24.8	34.4	45.4	57.8	75.6	89.9	104.7
27.5°	0.0	5.1	10.1	17.1	25.7	35.7	47.2	60.9	78.9	93.1	108.6
25°	0.0	5.2	10.3	17.6	26.5	36.9	48.9	63.8	81.5	96.2	112.3
22.5°	0.0	5.3	10.5	18.0	27.2	38.0	50.4	66.4	83.9	99.2	116.1
20°	0.0	5.4	10.7	18.4	27.9	39.0	51.8	68.8	86.0	101.8	119.6
17.5°	0.0	5.4	10.9	18.8	28.5	39.9	53.0	70.9	87.9	104.2	122.7
15°	0.0	5.5	11.0	19.1	29.0	40.7	54.0	72.8	89.5	106.3	125.4
12.5°	0.0	5.6	11.1	19.4	29.4	41.3	54.9	74.3	90.9	108.1	127.7
10°	0.0	5.6	11.2	19.6	29.8	41.8	55.7	75.6	92.0	109.5	129.6
7.5°	0.0	5.7	11.3	19.8	30.0	42.3	56.3	76.6	92.9	110.6	131.1
5°	0.0	5.7	11.4	19.9	30.2	42.6	56.7	77.3	93.6	111.4	132.2
2.5°	0.0	5.7	11.4	20.0	30.4	42.7	56.9	77.8	94.0	111.9	132.8
0°	0.0	5.7	11.4	20.0	30.4	42.8	57.0	77.9	94.1	112.1	133.0
-2.5°	0.0	5.7	11.4	20.0	30.4	42.8	57.0	77.9	94.1	112.1	133.0
-5°	0.0	5.7	11.4	19.9	30.2	42.6	56.7	77.3	93.6	111.4	132.2
-7.5°	0.0	5.7	11.3	19.8	30.0	42.3	56.3	76.6	92.9	110.6	131.1
-10°	0.0	5.6	11.2	19.6	29.8	41.8	55.7	75.6	92.0	109.5	129.6
-12.5°	0.0	5.6	11.1	19.4	29.4	41.3	54.9	74.3	90.9	108.1	127.7
-15°	0.0	5.5	11.0	19.1	29.0	40.7	54.0	72.8	89.5	106.3	125.4
-17.5°	0.0	5.4	10.9	18.8	28.5	39.9	53.0	70.9	87.9	104.2	122.7
-20°	0.0	5.4	10.7	18.4	27.9	39.0	51.8	68.8	86.0	101.8	119.6



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 CATALOG NUMBER: EPH-LS-16-1200R-40-80-5R-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	5.3	10.5	18.0	27.2	38.0	50.4	66.4	83.9	99.2	116.1
-25°	0.0	5.2	10.3	17.6	26.5	36.9	48.9	63.8	81.5	96.2	112.3
-27.5°	0.0	5.1	10.1	17.1	25.7	35.7	47.2	60.9	78.9	93.1	108.6
-30°	0.0	4.9	9.9	16.5	24.8	34.4	45.4	57.8	75.6	89.9	104.7
-32.5°	0.0	4.8	9.6	15.9	23.8	33.0	43.4	55.2	71.8	86.5	100.4
-35°	0.0	4.7	9.3	15.3	22.8	31.5	41.5	52.8	67.6	82.9	95.9
-37.5°	0.0	4.5	9.0	14.6	21.7	29.9	39.6	50.2	63.2	79.0	91.4
-40°	0.0	4.4	8.7	13.9	20.6	28.5	37.5	47.4	58.6	74.1	86.9
-42.5°	0.0	4.2	8.4	13.2	19.5	27.0	35.4	44.6	54.8	68.6	82.1
-45°	0.0	4.0	8.1	12.4	18.5	25.4	33.1	41.7	51.3	62.9	77.0
-47.5°	0.0	3.9	7.7	11.6	17.4	23.8	30.7	38.9	47.7	56.9	70.3
-50°	0.0	3.7	7.3	11.0	16.2	22.1	28.6	36.1	43.9	52.7	63.4
-52.5°	0.0	3.5	6.9	10.4	15.1	20.3	26.5	33.1	40.4	48.3	56.5
-55°	0.0	3.3	6.5	9.8	13.9	18.7	24.3	30.1	36.9	43.8	51.5
-57.5°	0.0	3.1	6.1	9.2	12.6	17.2	22.1	27.5	33.3	39.7	46.3
-60°	0.0	2.8	5.7	8.5	11.4	15.6	19.8	24.8	29.8	35.5	41.3
-62.5°	0.0	2.6	5.3	7.9	10.5	13.9	17.8	22.0	26.6	31.3	36.6
-65°	0.0	2.4	4.8	7.2	9.6	12.3	15.8	19.3	23.4	27.5	31.8
-67.5°	0.0	2.2	4.4	6.5	8.7	10.8	13.8	16.9	20.1	23.8	27.5
-70°	0.0	1.9	3.9	5.8	7.8	9.7	11.7	14.5	17.3	20.1	23.4
-72.5°	0.0	1.7	3.4	5.1	6.8	8.5	10.2	12.0	14.5	16.9	19.3
-75°	0.0	1.5	2.9	4.4	5.9	7.3	8.8	10.2	11.7	13.8	15.8
-77.5°	0.0	1.2	2.5	3.7	4.9	6.1	7.3	8.5	9.7	10.8	12.3
-80°	0.0	1.0	2.0	3.0	3.9	4.9	5.9	6.8	7.8	8.7	9.6
-82.5°	0.0	0.7	1.5	2.2	3.0	3.7	4.4	5.1	5.8	6.5	7.2
-85°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.9	4.4	4.8
-87.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.5	1.7	1.9	2.2	2.4
-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: P699957 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-5R-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°	2.6	2.8	3.1	3.3	3.5	3.7	3.9	4.0	4.2	4.4	4.5
85°	5.3	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.4	8.7	9.0
82.5°	7.9	8.5	9.2	9.8	10.4	11.0	11.6	12.4	13.2	13.9	14.6
80°	10.5	11.4	12.6	13.9	15.1	16.2	17.4	18.5	19.5	20.6	21.7
77.5°	13.9	15.6	17.2	18.7	20.3	22.1	23.8	25.4	27.0	28.5	29.9
75°	17.8	19.8	22.1	24.3	26.5	28.6	30.7	33.1	35.4	37.5	39.6
72.5°	22.0	24.8	27.5	30.1	33.1	36.1	38.9	41.7	44.6	47.4	50.2
70°	26.6	29.8	33.3	36.9	40.4	43.9	47.7	51.3	54.8	58.6	63.2
67.5°	31.3	35.5	39.7	43.8	48.3	52.7	56.9	62.9	68.6	74.1	79.0
65°	36.6	41.3	46.3	51.5	56.5	63.4	70.3	77.0	82.1	86.9	91.4
62.5°	41.9	47.6	53.4	60.0	68.1	75.9	82.3	88.0	93.5	99.2	104.8
60°	47.6	54.0	61.9	70.9	79.3	86.0	92.4	99.2	105.8	112.3	119.4
57.5°	53.4	61.9	71.9	80.8	88.2	95.6	103.3	110.9	119.1	127.2	135.5
55°	60.0	70.9	80.8	89.0	97.2	105.9	114.6	124.0	133.2	144.8	155.8
52.5°	68.1	79.3	88.2	97.2	106.7	116.6	127.0	138.5	151.4	164.9	180.5
50°	75.9	86.0	95.6	105.9	116.6	128.0	141.2	155.5	172.0	189.5	218.5
47.5°	82.3	92.4	103.3	114.6	127.0	141.2	156.8	175.6	194.9	235.3	276.3
45°	88.0	99.2	110.9	124.0	138.5	155.5	175.6	196.7	243.7	296.3	371.9
42.5°	93.5	105.8	119.1	133.2	151.4	172.0	194.9	243.7	303.7	386.9	498.2
40°	99.2	112.3	127.2	144.8	164.9	189.5	235.3	296.3	386.9	511.1	654.3
37.5°	104.8	119.4	135.5	155.8	180.5	218.5	276.3	371.9	498.2	654.3	782.1
35°	110.1	126.1	145.3	168.2	195.4	255.2	342.1	459.8	628.0	770.8	886.2
32.5°	115.6	132.5	154.5	181.3	226.2	298.0	406.7	576.1	737.3	873.0	953.6
30°	121.1	140.3	163.9	193.6	256.7	354.9	499.3	682.2	836.1	933.5	994.8
27.5°	126.1	147.7	174.5	215.9	289.7	408.2	595.8	769.1	900.4	982.8	1021.5
25°	130.8	154.5	184.3	240.4	335.5	482.3	681.8	850.1	950.4	1006.3	1156.6
22.5°	135.8	160.8	193.3	262.8	377.5	558.9	751.1	898.0	985.4	1033.8	1311.1
20°	140.9	168.2	207.4	285.8	415.7	628.6	814.3	937.2	1003.9	1165.6	1802.7
17.5°	145.5	174.8	224.0	317.1	468.9	686.1	867.0	972.4	1020.6	1284.5	2411.5
15°	149.4	180.5	238.5	344.5	519.2	731.9	895.5	988.4	1081.6	1502.4	3008.2
12.5°	152.8	185.4	250.8	367.9	562.1	771.1	920.0	1000.0	1165.1	1931.8	5184.1
10°	155.6	189.5	261.0	387.2	597.6	803.5	940.2	1009.6	1234.3	2288.6	6996.0
7.5°	157.8	192.6	269.0	402.3	625.4	828.8	956.1	1017.2	1288.8	2569.7	8426.0
5°	159.3	194.9	274.7	413.1	645.3	847.1	967.5	1022.6	1328.0	2772.4	9458.9
2.5°	160.3	196.2	278.2	419.6	657.3	858.0	974.4	1025.9	1351.7	2894.9	10083.3
0°	160.6	196.7	279.3	421.8	661.3	861.7	976.7	1027.0	1359.6	2935.8	10292.3
-2.5°	160.3	196.2	278.2	419.6	657.3	858.0	974.4	1025.9	1351.7	2894.9	10083.3
-5°	159.3	194.9	274.7	413.1	645.3	847.1	967.5	1022.6	1328.0	2772.4	9458.9
-7.5°	157.8	192.6	269.0	402.3	625.4	828.8	956.1	1017.2	1288.8	2569.7	8426.0
-10°	155.6	189.5	261.0	387.2	597.6	803.5	940.2	1009.6	1234.3	2288.6	6996.0
-12.5°	152.8	185.4	250.8	367.9	562.1	771.1	920.0	1000.0	1165.1	1931.8	5184.1
-15°	149.4	180.5	238.5	344.5	519.2	731.9	895.5	988.4	1081.6	1502.4	3008.2
-17.5°	145.5	174.8	224.0	317.1	468.9	686.1	867.0	972.4	1020.6	1284.5	2411.5
-20°	140.9	168.2	207.4	285.8	415.7	628.6	814.3	937.2	1003.9	1165.6	1802.7



REPORT NUMBER: P699957 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-5R-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	135.8	160.8	193.3	262.8	377.5	558.9	751.1	898.0	985.4	1033.8	1311.1
-25°	130.8	154.5	184.3	240.4	335.5	482.3	681.8	850.1	950.4	1006.3	1156.6
-27.5°	126.1	147.7	174.5	215.9	289.7	408.2	595.8	769.1	900.4	982.8	1021.5
-30°	121.1	140.3	163.9	193.6	256.7	354.9	499.3	682.2	836.1	933.5	994.8
-32.5°	115.6	132.5	154.5	181.3	226.2	298.0	406.7	576.1	737.3	873.0	953.6
-35°	110.1	126.1	145.3	168.2	195.4	255.2	342.1	459.8	628.0	770.8	886.2
-37.5°	104.8	119.4	135.5	155.8	180.5	218.5	276.3	371.9	498.2	654.3	782.1
-40°	99.2	112.3	127.2	144.8	164.9	189.5	235.3	296.3	386.9	511.1	654.3
-42.5°	93.5	105.8	119.1	133.2	151.4	172.0	194.9	243.7	303.7	386.9	498.2
-45°	88.0	99.2	110.9	124.0	138.5	155.5	175.6	196.7	243.7	296.3	371.9
-47.5°	82.3	92.4	103.3	114.6	127.0	141.2	156.8	175.6	194.9	235.3	276.3
-50°	75.9	86.0	95.6	105.9	116.6	128.0	141.2	155.5	172.0	189.5	218.5
-52.5°	68.1	79.3	88.2	97.2	106.7	116.6	127.0	138.5	151.4	164.9	180.5
-55°	60.0	70.9	80.8	89.0	97.2	105.9	114.6	124.0	133.2	144.8	155.8
-57.5°	53.4	61.9	71.9	80.8	88.2	95.6	103.3	110.9	119.1	127.2	135.5
-60°	47.6	54.0	61.9	70.9	79.3	86.0	92.4	99.2	105.8	112.3	119.4
-62.5°	41.9	47.6	53.4	60.0	68.1	75.9	82.3	88.0	93.5	99.2	104.8
-65°	36.6	41.3	46.3	51.5	56.5	63.4	70.3	77.0	82.1	86.9	91.4
-67.5°	31.3	35.5	39.7	43.8	48.3	52.7	56.9	62.9	68.6	74.1	79.0
-70°	26.6	29.8	33.3	36.9	40.4	43.9	47.7	51.3	54.8	58.6	63.2
-72.5°	22.0	24.8	27.5	30.1	33.1	36.1	38.9	41.7	44.6	47.4	50.2
-75°	17.8	19.8	22.1	24.3	26.5	28.6	30.7	33.1	35.4	37.5	39.6
-77.5°	13.9	15.6	17.2	18.7	20.3	22.1	23.8	25.4	27.0	28.5	29.9
-80°	10.5	11.4	12.6	13.9	15.1	16.2	17.4	18.5	19.5	20.6	21.7
-82.5°	7.9	8.5	9.2	9.8	10.4	11.0	11.6	12.4	13.2	13.9	14.6
-85°	5.3	5.7	6.1	6.5	6.9	7.3	7.7	8.1	8.4	8.7	9.0
-87.5°	2.6	2.8	3.1	3.3	3.5	3.7	3.9	4.0	4.2	4.4	4.5
-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: P699957 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-5R-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°	4.7	4.8	4.9	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6
85°	9.3	9.6	9.9	10.1	10.3	10.5	10.7	10.9	11.0	11.1	11.2
82.5°	15.3	15.9	16.5	17.1	17.6	18.0	18.4	18.8	19.1	19.4	19.6
80°	22.8	23.8	24.8	25.7	26.5	27.2	27.9	28.5	29.0	29.4	29.8
77.5°	31.5	33.0	34.4	35.7	36.9	38.0	39.0	39.9	40.7	41.3	41.8
75°	41.5	43.4	45.4	47.2	48.9	50.4	51.8	53.0	54.0	54.9	55.7
72.5°	52.8	55.2	57.8	60.9	63.8	66.4	68.8	70.9	72.8	74.3	75.6
70°	67.6	71.8	75.6	78.9	81.5	83.9	86.0	87.9	89.5	90.9	92.0
67.5°	82.9	86.5	89.9	93.1	96.2	99.2	101.8	104.2	106.3	108.1	109.5
65°	95.9	100.4	104.7	108.6	112.3	116.1	119.6	122.7	125.4	127.7	129.6
62.5°	110.1	115.6	121.1	126.1	130.8	135.8	140.9	145.5	149.4	152.8	155.6
60°	126.1	132.5	140.3	147.7	154.5	160.8	168.2	174.8	180.5	185.4	189.5
57.5°	145.3	154.5	163.9	174.5	184.3	193.3	207.4	224.0	238.5	250.8	261.0
55°	168.2	181.3	193.6	215.9	240.4	262.8	285.8	317.1	344.5	367.9	387.2
52.5°	195.4	226.2	256.7	289.7	335.5	377.5	415.7	468.9	519.2	562.1	597.6
50°	255.2	298.0	354.9	408.2	482.3	558.9	628.6	686.1	731.9	771.1	803.5
47.5°	342.1	406.7	499.3	595.8	681.8	751.1	814.3	867.0	895.5	920.0	940.2
45°	459.8	576.1	682.2	769.1	850.1	898.0	937.2	972.4	988.4	1000.0	1009.6
42.5°	628.0	737.3	836.1	900.4	950.4	985.4	1003.9	1020.6	1081.6	1165.1	1234.3
40°	770.8	873.0	933.5	982.8	1006.3	1033.8	1165.6	1284.5	1502.4	1931.8	2288.6
37.5°	886.2	953.6	994.8	1021.5	1156.6	1311.1	1802.7	2411.5	3008.2	5184.1	6996.0
35°	960.4	1000.8	1051.8	1240.1	1634.9	2420.5	3911.4	6979.4	9708.4	14278.0	18697.8
32.5°	1000.8	1072.4	1282.4	1943.3	2842.0	6427.7	10064.1	17200.0	23822.8	29607.7	34478.5
30°	1051.8	1282.4	2047.1	3495.5	7967.9	14509.7	23266.1	31323.0	38578.6	44180.3	46910.1
27.5°	1240.1	1943.3	3495.5	8486.6	16912.9	26993.4	36499.6	44348.9	48386.7	51928.6	52651.9
25°	1634.9	2842.0	7967.9	16912.9	28262.8	39138.1	46454.9	51295.2	52833.1	53753.6	54518.2
22.5°	2420.5	6427.7	14509.7	26993.4	39138.1	47166.9	52143.8	53386.7	54504.2	55481.3	56567.4
20°	3911.4	10064.1	23266.1	36499.6	46454.9	52143.8	53574.4	54886.8	56179.4	57957.6	59820.1
17.5°	6979.4	17200.0	31323.0	44348.9	51295.2	53386.7	54886.8	56519.3	58678.3	62200.8	65766.2
15°	9708.4	23822.8	38578.6	48386.7	52833.1	54504.2	56179.4	58678.3	63017.4	70688.6	82904.9
12.5°	14278.0	29607.7	44180.3	51928.6	53753.6	55481.3	57957.6	62200.8	70688.6	85872.0	140093.8
10°	18697.8	34478.5	46910.1	52651.9	54518.2	56567.4	59820.1	65766.2	82904.9	140093.8	238382.7
7.5°	22193.8	38341.8	49082.7	53220.4	55127.0	57688.2	62432.9	74348.1	113324.8	206270.7	378816.1
5°	24723.7	41143.6	50662.7	53635.2	55573.2	58514.6	64374.1	81118.3	145789.7	292526.5	496819.2
2.5°	26255.0	42842.3	51622.4	53887.9	55845.8	59021.6	65571.9	85330.2	166230.6	354039.7	565216.2
0°	26767.8	43411.5	51944.3	53972.7	55937.5	59192.5	65977.1	86761.3	173223.2	376684.1	588624.4
-2.5°	26255.0	42842.3	51622.4	53887.9	55845.8	59021.6	65571.9	85330.2	166230.6	354039.7	565216.2
-5°	24723.7	41143.6	50662.7	53635.2	55573.2	58514.6	64374.1	81118.3	145789.7	292526.5	496819.2
-7.5°	22193.8	38341.8	49082.7	53220.4	55127.0	57688.2	62432.9	74348.1	113324.8	206270.7	378816.1
-10°	18697.8	34478.5	46910.1	52651.9	54518.2	56567.4	59820.1	65766.2	82904.9	140093.8	238382.7
-12.5°	14278.0	29607.7	44180.3	51928.6	53753.6	55481.3	57957.6	62200.8	70688.6	85872.0	140093.8
-15°	9708.4	23822.8	38578.6	48386.7	52833.1	54504.2	56179.4	58678.3	63017.4	70688.6	82904.9
-17.5°	6979.4	17200.0	31323.0	44348.9	51295.2	53386.7	54886.8	56519.3	58678.3	62200.8	65766.2
-20°	3911.4	10064.1	23266.1	36499.6	46454.9	52143.8	53574.4	54886.8	56179.4	57957.6	59820.1



REPORT NUMBER: P699957 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-5R-S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2420.5	6427.7	14509.7	26993.4	39138.1	47166.9	52143.8	53386.7	54504.2	55481.3	56567.4
-25°	1634.9	2842.0	7967.9	16912.9	28262.8	39138.1	46454.9	51295.2	52833.1	53753.6	54518.2
-27.5°	1240.1	1943.3	3495.5	8486.6	16912.9	26993.4	36499.6	44348.9	48386.7	51928.6	52651.9
-30°	1051.8	1282.4	2047.1	3495.5	7967.9	14509.7	23266.1	31323.0	38578.6	44180.3	46910.1
-32.5°	1000.8	1072.4	1282.4	1943.3	2842.0	6427.7	10064.1	17200.0	23822.8	29607.7	34478.5
-35°	960.4	1000.8	1051.8	1240.1	1634.9	2420.5	3911.4	6979.4	9708.4	14278.0	18697.8
-37.5°	886.2	953.6	994.8	1021.5	1156.6	1311.1	1802.7	2411.5	3008.2	5184.1	6996.0
-40°	770.8	873.0	933.5	982.8	1006.3	1033.8	1165.6	1284.5	1502.4	1931.8	2288.6
-42.5°	628.0	737.3	836.1	900.4	950.4	985.4	1003.9	1020.6	1081.6	1165.1	1234.3
-45°	459.8	576.1	682.2	769.1	850.1	898.0	937.2	972.4	988.4	1000.0	1009.6
-47.5°	342.1	406.7	499.3	595.8	681.8	751.1	814.3	867.0	895.5	920.0	940.2
-50°	255.2	298.0	354.9	408.2	482.3	558.9	628.6	686.1	731.9	771.1	803.5
-52.5°	195.4	226.2	256.7	289.7	335.5	377.5	415.7	468.9	519.2	562.1	597.6
-55°	168.2	181.3	193.6	215.9	240.4	262.8	285.8	317.1	344.5	367.9	387.2
-57.5°	145.3	154.5	163.9	174.5	184.3	193.3	207.4	224.0	238.5	250.8	261.0
-60°	126.1	132.5	140.3	147.7	154.5	160.8	168.2	174.8	180.5	185.4	189.5
-62.5°	110.1	115.6	121.1	126.1	130.8	135.8	140.9	145.5	149.4	152.8	155.6
-65°	95.9	100.4	104.7	108.6	112.3	116.1	119.6	122.7	125.4	127.7	129.6
-67.5°	82.9	86.5	89.9	93.1	96.2	99.2	101.8	104.2	106.3	108.1	109.5
-70°	67.6	71.8	75.6	78.9	81.5	83.9	86.0	87.9	89.5	90.9	92.0
-72.5°	52.8	55.2	57.8	60.9	63.8	66.4	68.8	70.9	72.8	74.3	75.6
-75°	41.5	43.4	45.4	47.2	48.9	50.4	51.8	53.0	54.0	54.9	55.7
-77.5°	31.5	33.0	34.4	35.7	36.9	38.0	39.0	39.9	40.7	41.3	41.8
-80°	22.8	23.8	24.8	25.7	26.5	27.2	27.9	28.5	29.0	29.4	29.8
-82.5°	15.3	15.9	16.5	17.1	17.6	18.0	18.4	18.8	19.1	19.4	19.6
-85°	9.3	9.6	9.9	10.1	10.3	10.5	10.7	10.9	11.0	11.1	11.2
-87.5°	4.7	4.8	4.9	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6
-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: P699957 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-5R-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°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.6	5.6	5.5	5.4
85°	11.3	11.4	11.4	11.4	11.4	11.4	11.3	11.2	11.1	11.0	10.9
82.5°	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.6	19.4	19.1	18.8
80°	30.0	30.2	30.4	30.4	30.4	30.2	30.0	29.8	29.4	29.0	28.5
77.5°	42.3	42.6	42.7	42.8	42.7	42.6	42.3	41.8	41.3	40.7	39.9
75°	56.3	56.7	56.9	57.0	56.9	56.7	56.3	55.7	54.9	54.0	53.0
72.5°	76.6	77.3	77.8	77.9	77.8	77.3	76.6	75.6	74.3	72.8	70.9
70°	92.9	93.6	94.0	94.1	94.0	93.6	92.9	92.0	90.9	89.5	87.9
67.5°	110.6	111.4	111.9	112.1	111.9	111.4	110.6	109.5	108.1	106.3	104.2
65°	131.1	132.2	132.8	133.0	132.8	132.2	131.1	129.6	127.7	125.4	122.7
62.5°	157.8	159.3	160.3	160.6	160.3	159.3	157.8	155.6	152.8	149.4	145.5
60°	192.6	194.9	196.2	196.7	196.2	194.9	192.6	189.5	185.4	180.5	174.8
57.5°	269.0	274.7	278.2	279.3	278.2	274.7	269.0	261.0	250.8	238.5	224.0
55°	402.3	413.1	419.6	421.8	419.6	413.1	402.3	387.2	367.9	344.5	317.1
52.5°	625.4	645.3	657.3	661.3	657.3	645.3	625.4	597.6	562.1	519.2	468.9
50°	828.8	847.1	858.0	861.7	858.0	847.1	828.8	803.5	771.1	731.9	686.1
47.5°	956.1	967.5	974.4	976.7	974.4	967.5	956.1	940.2	920.0	895.5	867.0
45°	1017.2	1022.6	1025.9	1027.0	1025.9	1022.6	1017.2	1009.6	1000.0	988.4	972.4
42.5°	1288.8	1328.0	1351.7	1359.6	1351.7	1328.0	1288.8	1234.3	1165.1	1081.6	1020.6
40°	2569.7	2772.4	2894.9	2935.8	2894.9	2772.4	2569.7	2288.6	1931.8	1502.4	1284.5
37.5°	8426.0	9458.9	10083.3	10292.3	10083.3	9458.9	8426.0	6996.0	5184.1	3008.2	2411.5
35°	22193.8	24723.7	26255.0	26767.8	26255.0	24723.7	22193.8	18697.8	14278.0	9708.4	6979.4
32.5°	38341.8	41143.6	42842.3	43411.5	42842.3	41143.6	38341.8	34478.5	29607.7	23822.8	17200.0
30°	49082.7	50662.7	51622.4	51944.3	51622.4	50662.7	49082.7	46910.1	44180.3	38578.6	31323.0
27.5°	53220.4	53635.2	53887.9	53972.7	53887.9	53635.2	53220.4	52651.9	51928.6	48386.7	44348.9
25°	55127.0	55573.2	55845.8	55937.5	55845.8	55573.2	55127.0	54518.2	53753.6	52833.1	51295.2
22.5°	57688.2	58514.6	59021.6	59192.5	59021.6	58514.6	57688.2	56567.4	55481.3	54504.2	53386.7
20°	62432.9	64374.1	65571.9	65977.1	65571.9	64374.1	62432.9	59820.1	57957.6	56179.4	54886.8
17.5°	74348.1	81118.3	85330.2	86761.3	85330.2	81118.3	74348.1	65766.2	62200.8	58678.3	56519.3
15°	113324.8	145789.7	166230.6	173223.2	166230.6	145789.7	113324.8	82904.9	70688.6	63017.4	58678.3
12.5°	206270.7	292526.5	354039.7	376684.1	354039.7	292526.5	206270.7	140093.8	85872.0	70688.6	62200.8
10°	378816.1	496819.2	565216.2	588624.4	565216.2	496819.2	378816.1	238382.7	140093.8	82904.9	65766.2
7.5°	543186.9	643899.0	678150.2	685068.0	678150.2	643899.0	543186.9	378816.1	206270.7	113324.8	74348.1
5°	643899.0	692500.0	698183.2	697806.8	698183.2	692500.0	643899.0	496819.2	292526.5	145789.7	81118.3
2.5°	678150.2	698183.2	692678.6	689486.9	692678.6	698183.2	678150.2	565216.2	354039.7	166230.6	85330.2
0°	685068.0	697806.8	689486.9	687183.9	689486.9	697806.8	685068.0	588624.4	376684.1	173223.2	86761.3
-2.5°	678150.2	698183.2	692678.6	689486.9	692678.6	698183.2	678150.2	565216.2	354039.7	166230.6	85330.2
-5°	643899.0	692500.0	698183.2	697806.8	698183.2	692500.0	643899.0	496819.2	292526.5	145789.7	81118.3
-7.5°	543186.9	643899.0	678150.2	685068.0	678150.2	643899.0	543186.9	378816.1	206270.7	113324.8	74348.1
-10°	378816.1	496819.2	565216.2	588624.4	565216.2	496819.2	378816.1	238382.7	140093.8	82904.9	65766.2
-12.5°	206270.7	292526.5	354039.7	376684.1	354039.7	292526.5	206270.7	140093.8	85872.0	70688.6	62200.8
-15°	113324.8	145789.7	166230.6	173223.2	166230.6	145789.7	113324.8	82904.9	70688.6	63017.4	58678.3
-17.5°	74348.1	81118.3	85330.2	86761.3	85330.2	81118.3	74348.1	65766.2	62200.8	58678.3	56519.3
-20°	62432.9	64374.1	65571.9	65977.1	65571.9	64374.1	62432.9	59820.1	57957.6	56179.4	54886.8



REPORT NUMBER: P699957 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-5R-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	57688.2	58514.6	59021.6	59192.5	59021.6	58514.6	57688.2	56567.4	55481.3	54504.2	53386.7
-25°	55127.0	55573.2	55845.8	55937.5	55845.8	55573.2	55127.0	54518.2	53753.6	52833.1	51295.2
-27.5°	53220.4	53635.2	53887.9	53972.7	53887.9	53635.2	53220.4	52651.9	51928.6	48386.7	44348.9
-30°	49082.7	50662.7	51622.4	51944.3	51622.4	50662.7	49082.7	46910.1	44180.3	38578.6	31323.0
-32.5°	38341.8	41143.6	42842.3	43411.5	42842.3	41143.6	38341.8	34478.5	29607.7	23822.8	17200.0
-35°	22193.8	24723.7	26255.0	26767.8	26255.0	24723.7	22193.8	18697.8	14278.0	9708.4	6979.4
-37.5°	8426.0	9458.9	10083.3	10292.3	10083.3	9458.9	8426.0	6996.0	5184.1	3008.2	2411.5
-40°	2569.7	2772.4	2894.9	2935.8	2894.9	2772.4	2569.7	2288.6	1931.8	1502.4	1284.5
-42.5°	1288.8	1328.0	1351.7	1359.6	1351.7	1328.0	1288.8	1234.3	1165.1	1081.6	1020.6
-45°	1017.2	1022.6	1025.9	1027.0	1025.9	1022.6	1017.2	1009.6	1000.0	988.4	972.4
-47.5°	956.1	967.5	974.4	976.7	974.4	967.5	956.1	940.2	920.0	895.5	867.0
-50°	828.8	847.1	858.0	861.7	858.0	847.1	828.8	803.5	771.1	731.9	686.1
-52.5°	625.4	645.3	657.3	661.3	657.3	645.3	625.4	597.6	562.1	519.2	468.9
-55°	402.3	413.1	419.6	421.8	419.6	413.1	402.3	387.2	367.9	344.5	317.1
-57.5°	269.0	274.7	278.2	279.3	278.2	274.7	269.0	261.0	250.8	238.5	224.0
-60°	192.6	194.9	196.2	196.7	196.2	194.9	192.6	189.5	185.4	180.5	174.8
-62.5°	157.8	159.3	160.3	160.6	160.3	159.3	157.8	155.6	152.8	149.4	145.5
-65°	131.1	132.2	132.8	133.0	132.8	132.2	131.1	129.6	127.7	125.4	122.7
-67.5°	110.6	111.4	111.9	112.1	111.9	111.4	110.6	109.5	108.1	106.3	104.2
-70°	92.9	93.6	94.0	94.1	94.0	93.6	92.9	92.0	90.9	89.5	87.9
-72.5°	76.6	77.3	77.8	77.9	77.8	77.3	76.6	75.6	74.3	72.8	70.9
-75°	56.3	56.7	56.9	57.0	56.9	56.7	56.3	55.7	54.9	54.0	53.0
-77.5°	42.3	42.6	42.7	42.8	42.7	42.6	42.3	41.8	41.3	40.7	39.9
-80°	30.0	30.2	30.4	30.4	30.4	30.2	30.0	29.8	29.4	29.0	28.5
-82.5°	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.6	19.4	19.1	18.8
-85°	11.3	11.4	11.4	11.4	11.4	11.4	11.3	11.2	11.1	11.0	10.9
-87.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.6	5.6	5.5	5.4
-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: P699957 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	5.3	5.2	5.1	4.9	4.8	4.7	4.5	4.4	4.2	4.0
85°	10.7	10.5	10.3	10.1	9.9	9.6	9.3	9.0	8.7	8.4	8.1
82.5°	18.4	18.0	17.6	17.1	16.5	15.9	15.3	14.6	13.9	13.2	12.4
80°	27.9	27.2	26.5	25.7	24.8	23.8	22.8	21.7	20.6	19.5	18.5
77.5°	39.0	38.0	36.9	35.7	34.4	33.0	31.5	29.9	28.5	27.0	25.4
75°	51.8	50.4	48.9	47.2	45.4	43.4	41.5	39.6	37.5	35.4	33.1
72.5°	68.8	66.4	63.8	60.9	57.8	55.2	52.8	50.2	47.4	44.6	41.7
70°	86.0	83.9	81.5	78.9	75.6	71.8	67.6	63.2	58.6	54.8	51.3
67.5°	101.8	99.2	96.2	93.1	89.9	86.5	82.9	79.0	74.1	68.6	62.9
65°	119.6	116.1	112.3	108.6	104.7	100.4	95.9	91.4	86.9	82.1	77.0
62.5°	140.9	135.8	130.8	126.1	121.1	115.6	110.1	104.8	99.2	93.5	88.0
60°	168.2	160.8	154.5	147.7	140.3	132.5	126.1	119.4	112.3	105.8	99.2
57.5°	207.4	193.3	184.3	174.5	163.9	154.5	145.3	135.5	127.2	119.1	110.9
55°	285.8	262.8	240.4	215.9	193.6	181.3	168.2	155.8	144.8	133.2	124.0
52.5°	415.7	377.5	335.5	289.7	256.7	226.2	195.4	180.5	164.9	151.4	138.5
50°	628.6	558.9	482.3	408.2	354.9	298.0	255.2	218.5	189.5	172.0	155.5
47.5°	814.3	751.1	681.8	595.8	499.3	406.7	342.1	276.3	235.3	194.9	175.6
45°	937.2	898.0	850.1	769.1	682.2	576.1	459.8	371.9	296.3	243.7	196.7
42.5°	1003.9	985.4	950.4	900.4	836.1	737.3	628.0	498.2	386.9	303.7	243.7
40°	1165.6	1033.8	1006.3	982.8	933.5	873.0	770.8	654.3	511.1	386.9	296.3
37.5°	1802.7	1311.1	1156.6	1021.5	994.8	953.6	886.2	782.1	654.3	498.2	371.9
35°	3911.4	2420.5	1634.9	1240.1	1051.8	1000.8	960.4	886.2	770.8	628.0	459.8
32.5°	10064.1	6427.7	2842.0	1943.3	1282.4	1072.4	1000.8	953.6	873.0	737.3	576.1
30°	23266.1	14509.7	7967.9	3495.5	2047.1	1282.4	1051.8	994.8	933.5	836.1	682.2
27.5°	36499.6	26993.4	16912.9	8486.6	3495.5	1943.3	1240.1	1021.5	982.8	900.4	769.1
25°	46454.9	39138.1	28262.8	16912.9	7967.9	2842.0	1634.9	1156.6	1006.3	950.4	850.1
22.5°	52143.8	47166.9	39138.1	26993.4	14509.7	6427.7	2420.5	1311.1	1033.8	985.4	898.0
20°	53574.4	52143.8	46454.9	36499.6	23266.1	10064.1	3911.4	1802.7	1165.6	1003.9	937.2
17.5°	54886.8	53386.7	51295.2	44348.9	31323.0	17200.0	6979.4	2411.5	1284.5	1020.6	972.4
15°	56179.4	54504.2	52833.1	48386.7	38578.6	23822.8	9708.4	3008.2	1502.4	1081.6	988.4
12.5°	57957.6	55481.3	53753.6	51928.6	44180.3	29607.7	14278.0	5184.1	1931.8	1165.1	1000.0
10°	59820.1	56567.4	54518.2	52651.9	46910.1	34478.5	18697.8	6996.0	2288.6	1234.3	1009.6
7.5°	62432.9	57688.2	55127.0	53220.4	49082.7	38341.8	22193.8	8426.0	2569.7	1288.8	1017.2
5°	64374.1	58514.6	55573.2	53635.2	50662.7	41143.6	24723.7	9458.9	2772.4	1328.0	1022.6
2.5°	65571.9	59021.6	55845.8	53887.9	51622.4	42842.3	26255.0	10083.3	2894.9	1351.7	1025.9
0°	65977.1	59192.5	55937.5	53972.7	51944.3	43411.5	26767.8	10292.3	2935.8	1359.6	1027.0
-2.5°	65571.9	59021.6	55845.8	53887.9	51622.4	42842.3	26255.0	10083.3	2894.9	1351.7	1025.9
-5°	64374.1	58514.6	55573.2	53635.2	50662.7	41143.6	24723.7	9458.9	2772.4	1328.0	1022.6
-7.5°	62432.9	57688.2	55127.0	53220.4	49082.7	38341.8	22193.8	8426.0	2569.7	1288.8	1017.2
-10°	59820.1	56567.4	54518.2	52651.9	46910.1	34478.5	18697.8	6996.0	2288.6	1234.3	1009.6
-12.5°	57957.6	55481.3	53753.6	51928.6	44180.3	29607.7	14278.0	5184.1	1931.8	1165.1	1000.0
-15°	56179.4	54504.2	52833.1	48386.7	38578.6	23822.8	9708.4	3008.2	1502.4	1081.6	988.4
-17.5°	54886.8	53386.7	51295.2	44348.9	31323.0	17200.0	6979.4	2411.5	1284.5	1020.6	972.4
-20°	53574.4	52143.8	46454.9	36499.6	23266.1	10064.1	3911.4	1802.7	1165.6	1003.9	937.2



REPORT NUMBER: P699957 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-5R-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	52143.8	47166.9	39138.1	26993.4	14509.7	6427.7	2420.5	1311.1	1033.8	985.4	898.0
-25°	46454.9	39138.1	28262.8	16912.9	7967.9	2842.0	1634.9	1156.6	1006.3	950.4	850.1
-27.5°	36499.6	26993.4	16912.9	8486.6	3495.5	1943.3	1240.1	1021.5	982.8	900.4	769.1
-30°	23266.1	14509.7	7967.9	3495.5	2047.1	1282.4	1051.8	994.8	933.5	836.1	682.2
-32.5°	10064.1	6427.7	2842.0	1943.3	1282.4	1072.4	1000.8	953.6	873.0	737.3	576.1
-35°	3911.4	2420.5	1634.9	1240.1	1051.8	1000.8	960.4	886.2	770.8	628.0	459.8
-37.5°	1802.7	1311.1	1156.6	1021.5	994.8	953.6	886.2	782.1	654.3	498.2	371.9
-40°	1165.6	1033.8	1006.3	982.8	933.5	873.0	770.8	654.3	511.1	386.9	296.3
-42.5°	1003.9	985.4	950.4	900.4	836.1	737.3	628.0	498.2	386.9	303.7	243.7
-45°	937.2	898.0	850.1	769.1	682.2	576.1	459.8	371.9	296.3	243.7	196.7
-47.5°	814.3	751.1	681.8	595.8	499.3	406.7	342.1	276.3	235.3	194.9	175.6
-50°	628.6	558.9	482.3	408.2	354.9	298.0	255.2	218.5	189.5	172.0	155.5
-52.5°	415.7	377.5	335.5	289.7	256.7	226.2	195.4	180.5	164.9	151.4	138.5
-55°	285.8	262.8	240.4	215.9	193.6	181.3	168.2	155.8	144.8	133.2	124.0
-57.5°	207.4	193.3	184.3	174.5	163.9	154.5	145.3	135.5	127.2	119.1	110.9
-60°	168.2	160.8	154.5	147.7	140.3	132.5	126.1	119.4	112.3	105.8	99.2
-62.5°	140.9	135.8	130.8	126.1	121.1	115.6	110.1	104.8	99.2	93.5	88.0
-65°	119.6	116.1	112.3	108.6	104.7	100.4	95.9	91.4	86.9	82.1	77.0
-67.5°	101.8	99.2	96.2	93.1	89.9	86.5	82.9	79.0	74.1	68.6	62.9
-70°	86.0	83.9	81.5	78.9	75.6	71.8	67.6	63.2	58.6	54.8	51.3
-72.5°	68.8	66.4	63.8	60.9	57.8	55.2	52.8	50.2	47.4	44.6	41.7
-75°	51.8	50.4	48.9	47.2	45.4	43.4	41.5	39.6	37.5	35.4	33.1
-77.5°	39.0	38.0	36.9	35.7	34.4	33.0	31.5	29.9	28.5	27.0	25.4
-80°	27.9	27.2	26.5	25.7	24.8	23.8	22.8	21.7	20.6	19.5	18.5
-82.5°	18.4	18.0	17.6	17.1	16.5	15.9	15.3	14.6	13.9	13.2	12.4
-85°	10.7	10.5	10.3	10.1	9.9	9.6	9.3	9.0	8.7	8.4	8.1
-87.5°	5.4	5.3	5.2	5.1	4.9	4.8	4.7	4.5	4.4	4.2	4.0
-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: P699957 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-1200R-40-80-5R-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°	3.9	3.7	3.5	3.3	3.1	2.8	2.6	2.4	2.2	1.9	1.7
85°	7.7	7.3	6.9	6.5	6.1	5.7	5.3	4.8	4.4	3.9	3.4
82.5°	11.6	11.0	10.4	9.8	9.2	8.5	7.9	7.2	6.5	5.8	5.1
80°	17.4	16.2	15.1	13.9	12.6	11.4	10.5	9.6	8.7	7.8	6.8
77.5°	23.8	22.1	20.3	18.7	17.2	15.6	13.9	12.3	10.8	9.7	8.5
75°	30.7	28.6	26.5	24.3	22.1	19.8	17.8	15.8	13.8	11.7	10.2
72.5°	38.9	36.1	33.1	30.1	27.5	24.8	22.0	19.3	16.9	14.5	12.0
70°	47.7	43.9	40.4	36.9	33.3	29.8	26.6	23.4	20.1	17.3	14.5
67.5°	56.9	52.7	48.3	43.8	39.7	35.5	31.3	27.5	23.8	20.1	16.9
65°	70.3	63.4	56.5	51.5	46.3	41.3	36.6	31.8	27.5	23.4	19.3
62.5°	82.3	75.9	68.1	60.0	53.4	47.6	41.9	36.6	31.3	26.6	22.0
60°	92.4	86.0	79.3	70.9	61.9	54.0	47.6	41.3	35.5	29.8	24.8
57.5°	103.3	95.6	88.2	80.8	71.9	61.9	53.4	46.3	39.7	33.3	27.5
55°	114.6	105.9	97.2	89.0	80.8	70.9	60.0	51.5	43.8	36.9	30.1
52.5°	127.0	116.6	106.7	97.2	88.2	79.3	68.1	56.5	48.3	40.4	33.1
50°	141.2	128.0	116.6	105.9	95.6	86.0	75.9	63.4	52.7	43.9	36.1
47.5°	156.8	141.2	127.0	114.6	103.3	92.4	82.3	70.3	56.9	47.7	38.9
45°	175.6	155.5	138.5	124.0	110.9	99.2	88.0	77.0	62.9	51.3	41.7
42.5°	194.9	172.0	151.4	133.2	119.1	105.8	93.5	82.1	68.6	54.8	44.6
40°	235.3	189.5	164.9	144.8	127.2	112.3	99.2	86.9	74.1	58.6	47.4
37.5°	276.3	218.5	180.5	155.8	135.5	119.4	104.8	91.4	79.0	63.2	50.2
35°	342.1	255.2	195.4	168.2	145.3	126.1	110.1	95.9	82.9	67.6	52.8
32.5°	406.7	298.0	226.2	181.3	154.5	132.5	115.6	100.4	86.5	71.8	55.2
30°	499.3	354.9	256.7	193.6	163.9	140.3	121.1	104.7	89.9	75.6	57.8
27.5°	595.8	408.2	289.7	215.9	174.5	147.7	126.1	108.6	93.1	78.9	60.9
25°	681.8	482.3	335.5	240.4	184.3	154.5	130.8	112.3	96.2	81.5	63.8
22.5°	751.1	558.9	377.5	262.8	193.3	160.8	135.8	116.1	99.2	83.9	66.4
20°	814.3	628.6	415.7	285.8	207.4	168.2	140.9	119.6	101.8	86.0	68.8
17.5°	867.0	686.1	468.9	317.1	224.0	174.8	145.5	122.7	104.2	87.9	70.9
15°	895.5	731.9	519.2	344.5	238.5	180.5	149.4	125.4	106.3	89.5	72.8
12.5°	920.0	771.1	562.1	367.9	250.8	185.4	152.8	127.7	108.1	90.9	74.3
10°	940.2	803.5	597.6	387.2	261.0	189.5	155.6	129.6	109.5	92.0	75.6
7.5°	956.1	828.8	625.4	402.3	269.0	192.6	157.8	131.1	110.6	92.9	76.6
5°	967.5	847.1	645.3	413.1	274.7	194.9	159.3	132.2	111.4	93.6	77.3
2.5°	974.4	858.0	657.3	419.6	278.2	196.2	160.3	132.8	111.9	94.0	77.8
0°	976.7	861.7	661.3	421.8	279.3	196.7	160.6	133.0	112.1	94.1	77.9
-2.5°	974.4	858.0	657.3	419.6	278.2	196.2	160.3	132.8	111.9	94.0	77.8
-5°	967.5	847.1	645.3	413.1	274.7	194.9	159.3	132.2	111.4	93.6	77.3
-7.5°	956.1	828.8	625.4	402.3	269.0	192.6	157.8	131.1	110.6	92.9	76.6
-10°	940.2	803.5	597.6	387.2	261.0	189.5	155.6	129.6	109.5	92.0	75.6
-12.5°	920.0	771.1	562.1	367.9	250.8	185.4	152.8	127.7	108.1	90.9	74.3
-15°	895.5	731.9	519.2	344.5	238.5	180.5	149.4	125.4	106.3	89.5	72.8
-17.5°	867.0	686.1	468.9	317.1	224.0	174.8	145.5	122.7	104.2	87.9	70.9
-20°	814.3	628.6	415.7	285.8	207.4	168.2	140.9	119.6	101.8	86.0	68.8



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	751.1	558.9	377.5	262.8	193.3	160.8	135.8	116.1	99.2	83.9	66.4
-25°	681.8	482.3	335.5	240.4	184.3	154.5	130.8	112.3	96.2	81.5	63.8
-27.5°	595.8	408.2	289.7	215.9	174.5	147.7	126.1	108.6	93.1	78.9	60.9
-30°	499.3	354.9	256.7	193.6	163.9	140.3	121.1	104.7	89.9	75.6	57.8
-32.5°	406.7	298.0	226.2	181.3	154.5	132.5	115.6	100.4	86.5	71.8	55.2
-35°	342.1	255.2	195.4	168.2	145.3	126.1	110.1	95.9	82.9	67.6	52.8
-37.5°	276.3	218.5	180.5	155.8	135.5	119.4	104.8	91.4	79.0	63.2	50.2
-40°	235.3	189.5	164.9	144.8	127.2	112.3	99.2	86.9	74.1	58.6	47.4
-42.5°	194.9	172.0	151.4	133.2	119.1	105.8	93.5	82.1	68.6	54.8	44.6
-45°	175.6	155.5	138.5	124.0	110.9	99.2	88.0	77.0	62.9	51.3	41.7
-47.5°	156.8	141.2	127.0	114.6	103.3	92.4	82.3	70.3	56.9	47.7	38.9
-50°	141.2	128.0	116.6	105.9	95.6	86.0	75.9	63.4	52.7	43.9	36.1
-52.5°	127.0	116.6	106.7	97.2	88.2	79.3	68.1	56.5	48.3	40.4	33.1
-55°	114.6	105.9	97.2	89.0	80.8	70.9	60.0	51.5	43.8	36.9	30.1
-57.5°	103.3	95.6	88.2	80.8	71.9	61.9	53.4	46.3	39.7	33.3	27.5
-60°	92.4	86.0	79.3	70.9	61.9	54.0	47.6	41.3	35.5	29.8	24.8
-62.5°	82.3	75.9	68.1	60.0	53.4	47.6	41.9	36.6	31.3	26.6	22.0
-65°	70.3	63.4	56.5	51.5	46.3	41.3	36.6	31.8	27.5	23.4	19.3
-67.5°	56.9	52.7	48.3	43.8	39.7	35.5	31.3	27.5	23.8	20.1	16.9
-70°	47.7	43.9	40.4	36.9	33.3	29.8	26.6	23.4	20.1	17.3	14.5
-72.5°	38.9	36.1	33.1	30.1	27.5	24.8	22.0	19.3	16.9	14.5	12.0
-75°	30.7	28.6	26.5	24.3	22.1	19.8	17.8	15.8	13.8	11.7	10.2
-77.5°	23.8	22.1	20.3	18.7	17.2	15.6	13.9	12.3	10.8	9.7	8.5
-80°	17.4	16.2	15.1	13.9	12.6	11.4	10.5	9.6	8.7	7.8	6.8
-82.5°	11.6	11.0	10.4	9.8	9.2	8.5	7.9	7.2	6.5	5.8	5.1
-85°	7.7	7.3	6.9	6.5	6.1	5.7	5.3	4.8	4.4	3.9	3.4
-87.5°	3.9	3.7	3.5	3.3	3.1	2.8	2.6	2.4	2.2	1.9	1.7
-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°	1.5	1.2	1.0	0.7	0.5	0.2	0.0
85°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
82.5°	4.4	3.7	3.0	2.2	1.5	0.7	0.0
80°	5.9	4.9	3.9	3.0	2.0	1.0	0.0
77.5°	7.3	6.1	4.9	3.7	2.5	1.2	0.0
75°	8.8	7.3	5.9	4.4	2.9	1.5	0.0
72.5°	10.2	8.5	6.8	5.1	3.4	1.7	0.0
70°	11.7	9.7	7.8	5.8	3.9	1.9	0.0
67.5°	13.8	10.8	8.7	6.5	4.4	2.2	0.0
65°	15.8	12.3	9.6	7.2	4.8	2.4	0.0
62.5°	17.8	13.9	10.5	7.9	5.3	2.6	0.0
60°	19.8	15.6	11.4	8.5	5.7	2.8	0.0
57.5°	22.1	17.2	12.6	9.2	6.1	3.1	0.0
55°	24.3	18.7	13.9	9.8	6.5	3.3	0.0
52.5°	26.5	20.3	15.1	10.4	6.9	3.5	0.0
50°	28.6	22.1	16.2	11.0	7.3	3.7	0.0
47.5°	30.7	23.8	17.4	11.6	7.7	3.9	0.0
45°	33.1	25.4	18.5	12.4	8.1	4.0	0.0
42.5°	35.4	27.0	19.5	13.2	8.4	4.2	0.0
40°	37.5	28.5	20.6	13.9	8.7	4.4	0.0
37.5°	39.6	29.9	21.7	14.6	9.0	4.5	0.0
35°	41.5	31.5	22.8	15.3	9.3	4.7	0.0
32.5°	43.4	33.0	23.8	15.9	9.6	4.8	0.0
30°	45.4	34.4	24.8	16.5	9.9	4.9	0.0
27.5°	47.2	35.7	25.7	17.1	10.1	5.1	0.0
25°	48.9	36.9	26.5	17.6	10.3	5.2	0.0
22.5°	50.4	38.0	27.2	18.0	10.5	5.3	0.0
20°	51.8	39.0	27.9	18.4	10.7	5.4	0.0
17.5°	53.0	39.9	28.5	18.8	10.9	5.4	0.0
15°	54.0	40.7	29.0	19.1	11.0	5.5	0.0
12.5°	54.9	41.3	29.4	19.4	11.1	5.6	0.0
10°	55.7	41.8	29.8	19.6	11.2	5.6	0.0
7.5°	56.3	42.3	30.0	19.8	11.3	5.7	0.0
5°	56.7	42.6	30.2	19.9	11.4	5.7	0.0
2.5°	56.9	42.7	30.4	20.0	11.4	5.7	0.0
0°	57.0	42.8	30.4	20.0	11.4	5.7	0.0
-2.5°	56.9	42.7	30.4	20.0	11.4	5.7	0.0
-5°	56.7	42.6	30.2	19.9	11.4	5.7	0.0
-7.5°	56.3	42.3	30.0	19.8	11.3	5.7	0.0
-10°	55.7	41.8	29.8	19.6	11.2	5.6	0.0
-12.5°	54.9	41.3	29.4	19.4	11.1	5.6	0.0
-15°	54.0	40.7	29.0	19.1	11.0	5.5	0.0
-17.5°	53.0	39.9	28.5	18.8	10.9	5.4	0.0
-20°	51.8	39.0	27.9	18.4	10.7	5.4	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	50.4	38.0	27.2	18.0	10.5	5.3	0.0
-25°	48.9	36.9	26.5	17.6	10.3	5.2	0.0
-27.5°	47.2	35.7	25.7	17.1	10.1	5.1	0.0
-30°	45.4	34.4	24.8	16.5	9.9	4.9	0.0
-32.5°	43.4	33.0	23.8	15.9	9.6	4.8	0.0
-35°	41.5	31.5	22.8	15.3	9.3	4.7	0.0
-37.5°	39.6	29.9	21.7	14.6	9.0	4.5	0.0
-40°	37.5	28.5	20.6	13.9	8.7	4.4	0.0
-42.5°	35.4	27.0	19.5	13.2	8.4	4.2	0.0
-45°	33.1	25.4	18.5	12.4	8.1	4.0	0.0
-47.5°	30.7	23.8	17.4	11.6	7.7	3.9	0.0
-50°	28.6	22.1	16.2	11.0	7.3	3.7	0.0
-52.5°	26.5	20.3	15.1	10.4	6.9	3.5	0.0
-55°	24.3	18.7	13.9	9.8	6.5	3.3	0.0
-57.5°	22.1	17.2	12.6	9.2	6.1	3.1	0.0
-60°	19.8	15.6	11.4	8.5	5.7	2.8	0.0
-62.5°	17.8	13.9	10.5	7.9	5.3	2.6	0.0
-65°	15.8	12.3	9.6	7.2	4.8	2.4	0.0
-67.5°	13.8	10.8	8.7	6.5	4.4	2.2	0.0
-70°	11.7	9.7	7.8	5.8	3.9	1.9	0.0
-72.5°	10.2	8.5	6.8	5.1	3.4	1.7	0.0
-75°	8.8	7.3	5.9	4.4	2.9	1.5	0.0
-77.5°	7.3	6.1	4.9	3.7	2.5	1.2	0.0
-80°	5.9	4.9	3.9	3.0	2.0	1.0	0.0
-82.5°	4.4	3.7	3.0	2.2	1.5	0.7	0.0
-85°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
-87.5°	1.5	1.2	1.0	0.7	0.5	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)