

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

Brand: EPHESUS

Report Number: P1212199 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-57-80-2S-HEG**

Issue Date: 11/14/2025

Test Information

Test Method: LM-79-08
Report Number: P1212199 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-23)
Test Lab: INNOVATION CENTER
Issue Date: 11/14/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: EPHEBUS
Catalog Number: EPH-LS12-1000R-57-80-2S-HEG
Description: EPHEBUS LS12 LUMINAIRE
(12) 5700K, 80 CRI LEDS AND 2S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

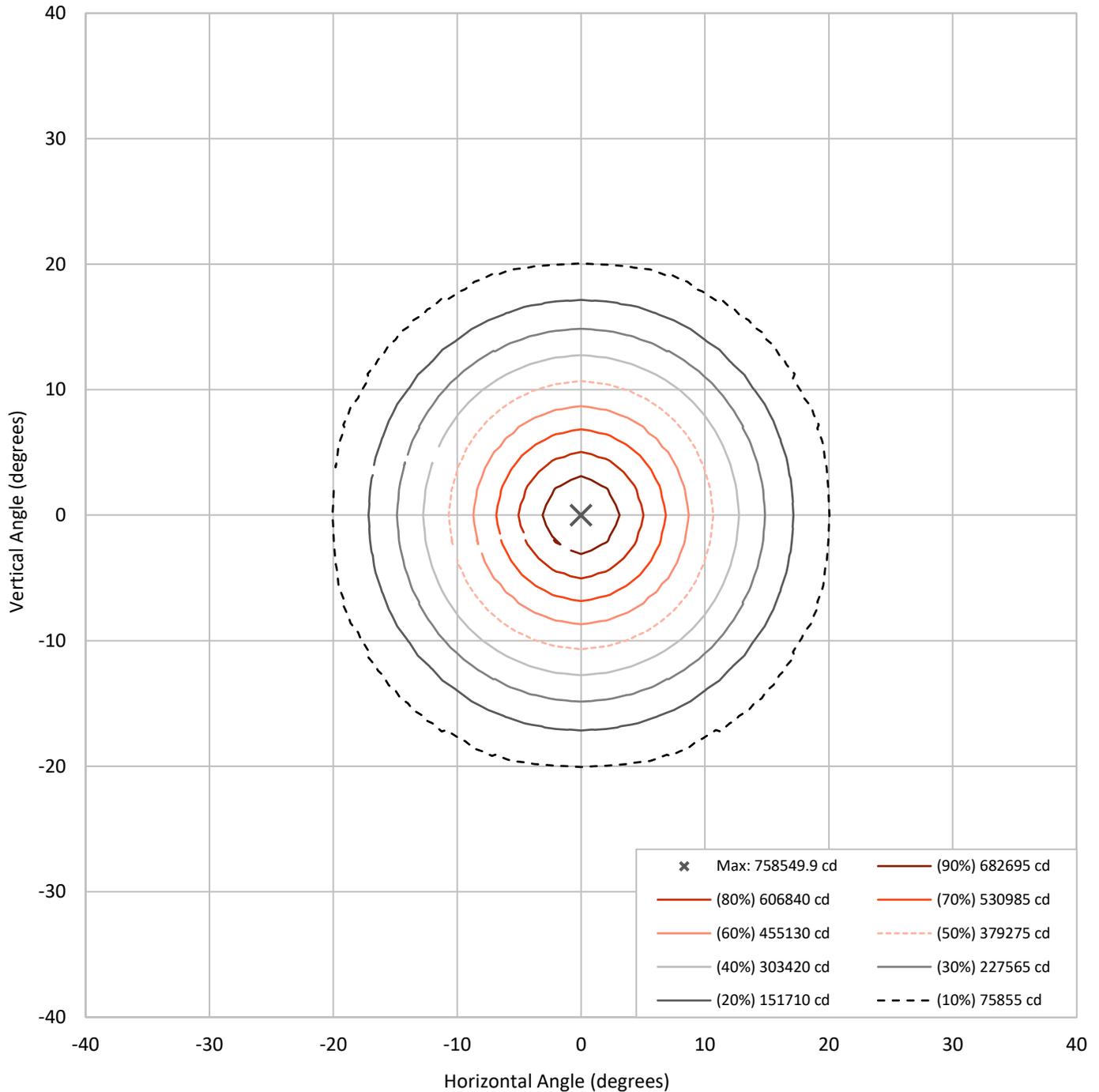
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	149235.7 lumens	Max Intensity:	758549.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	138.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	21.4°H x 21.4°V	Field Angle (10%):	40.1°H x 40.1°V
Beam Lumens:	52186.8 lumens	Field Lumens:	111169.6 lumens
Beam Efficiency:	35.0%	Field Efficiency:	74.5%
Input Watts (W):	1078.1		
Input Voltage (V):	NR		
Input Current (A _{in}):	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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CATALOG NUMBER: EPH-LS12-1000R-57-80-2S-HEG

Iso-Candela Plot



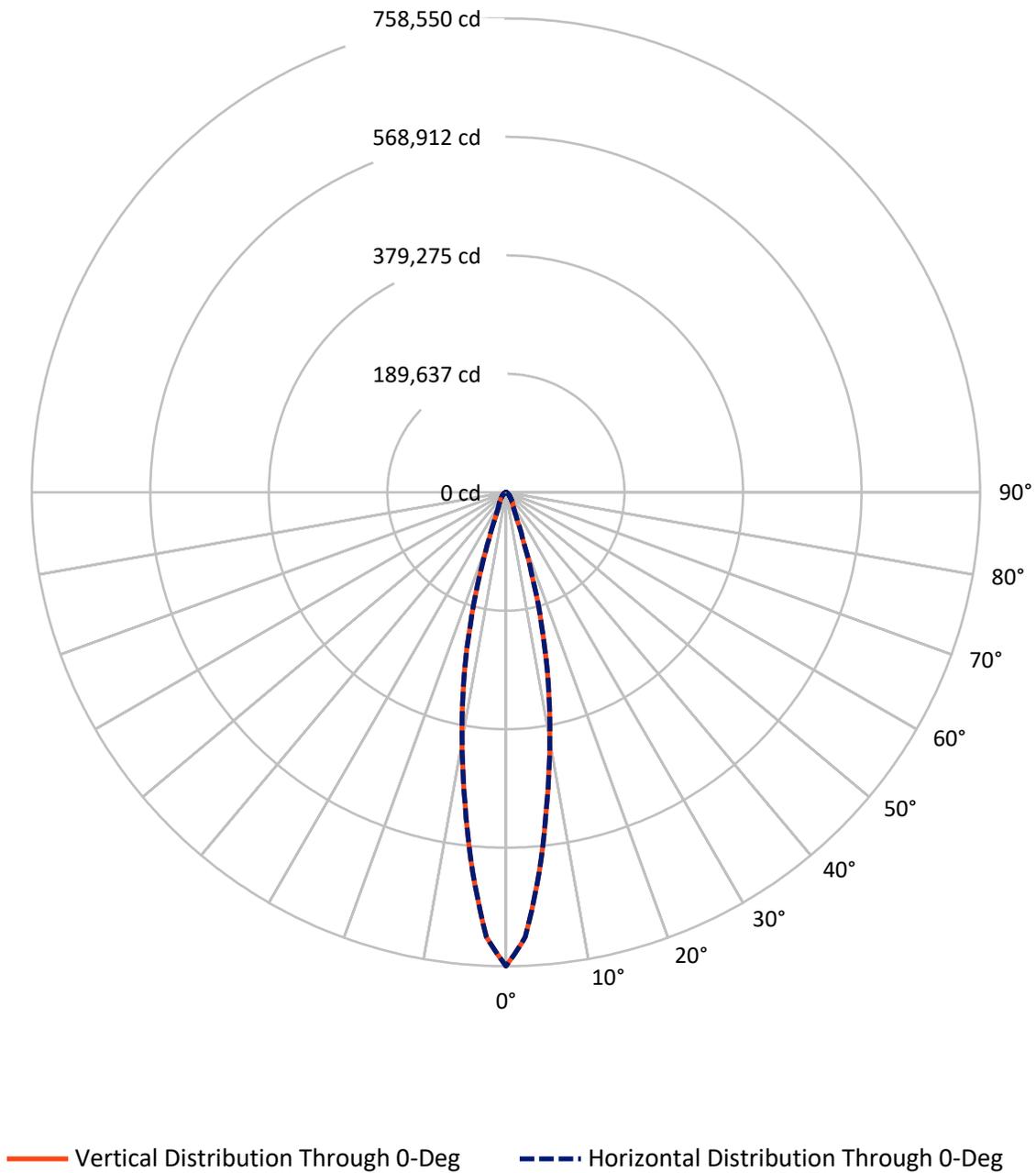
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Lumen Table

90	0.2	1.3	5.3	13.4	17.6	13.4	5.3	1.3	0.2										
80																			
70																			
60	0.6	0.8	3.4	9.7	19.5	30.4	39.7	44.9	44.9	39.7	30.4	19.5	9.7	3.4	0.8	0.6			
50		2.5	11.4	28.4	51.8	80.6	107.2	122.5	122.5	107.2	80.6	51.8	28.4	11.4	2.5				
40	1.8	6.0	23.2	54.9	105.9	166.5	221.1	253.1	253.1	221.1	166.5	105.9	54.9	23.2	6.0	1.8			
30		10.4	36.7	91.8	177.0	279.0	393.4	474.6	474.6	393.4	279.0	177.0	91.8	36.7	10.4				
20	3.9	14.7	51.8	130.8	252.7	447.7	709.2	1046.1	1046.1	709.2	447.7	252.7	130.8	51.8	14.7	3.9			
10		18.0	64.7	163.1	335.2	667.1	2205.9	5894.2	5894.2	2205.9	667.1	335.2	163.1	64.7	18.0				
0	4.9	19.7	71.7	181.0	392.6	958.3	5742.8	15057.5	15057.5	5742.8	958.3	392.6	181.0	71.7	19.7	4.9			
-10		19.7	71.7	181.0	392.6	958.3	5742.8	15057.5	15057.5	5742.8	958.3	392.6	181.0	71.7	19.7				
-20	3.9	18.0	64.7	163.1	335.2	667.1	2205.9	5894.2	5894.2	2205.9	667.1	335.2	163.1	64.7	18.0	3.9			
-30		14.7	51.8	130.8	252.7	447.7	709.2	1046.1	1046.1	709.2	447.7	252.7	130.8	51.8	14.7				
-40	1.8	10.4	36.7	91.8	177.0	279.0	393.4	474.6	474.6	393.4	279.0	177.0	91.8	36.7	10.4	1.8			
-50		6.0	23.2	54.9	105.9	166.5	221.1	253.1	253.1	221.1	166.5	105.9	54.9	23.2	6.0				
-60	0.6	2.5	11.4	28.4	51.8	80.6	107.2	122.5	122.5	107.2	80.6	51.8	28.4	11.4	2.5	0.6			
-70		0.8	3.4	9.7	19.5	30.4	39.7	44.9	44.9	39.7	30.4	19.5	9.7	3.4	0.8				
-80	0.2	1.3	5.3	13.4	17.6	13.4	5.3	1.3	0.2										
-90																			

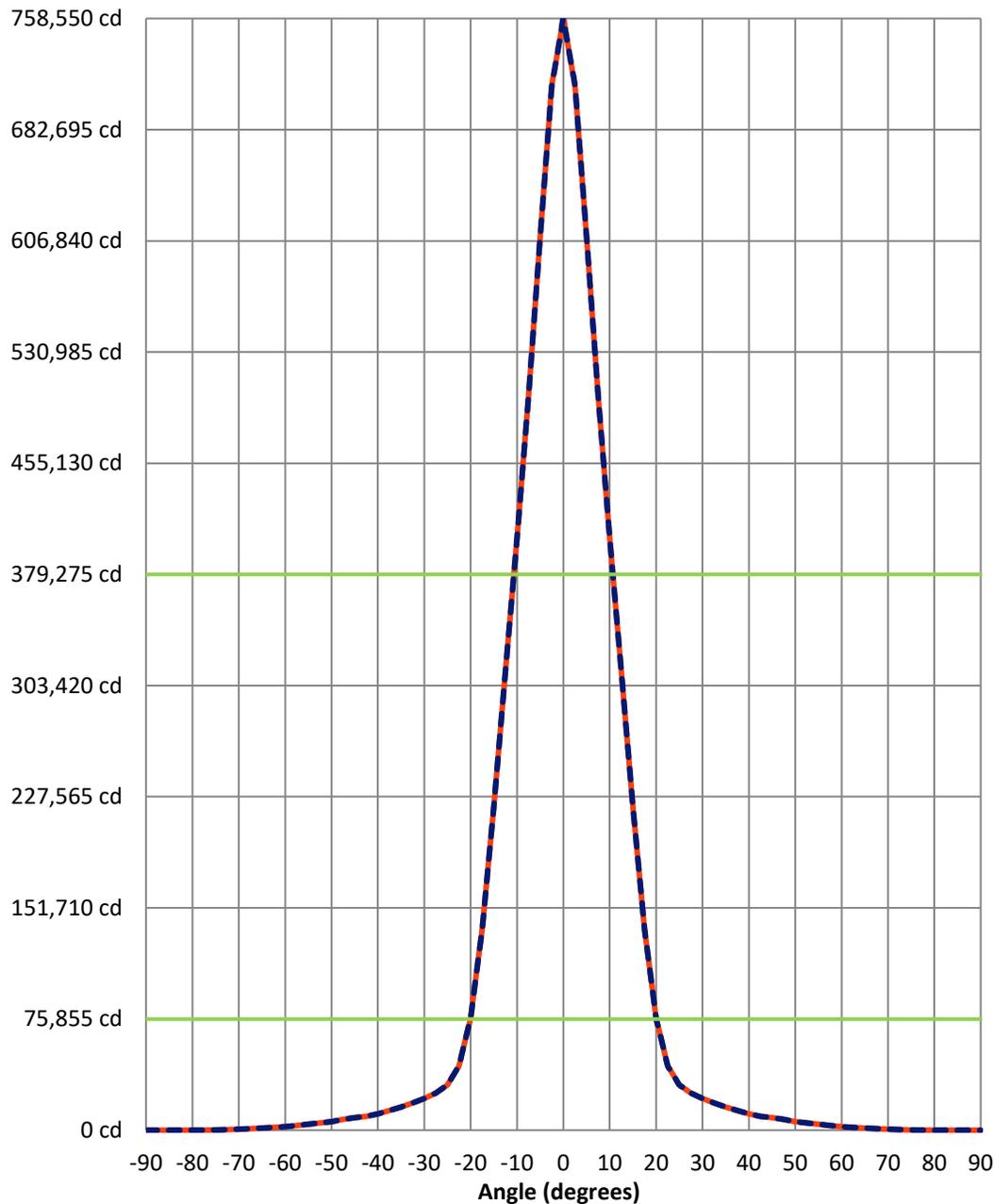
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 21.4°
 V Angle: 21.4°
 Lumens: 52186.8
 Efficiency: 35.0%

Field:
 H Angle: 40.1°
 V Angle: 40.1°
 Lumens: 111169.6
 Efficiency: 74.5%

Spill:
 Lumens: 38066.1
 Efficiency: 25.5%

— 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	0.6	1.3	1.9	2.5	3.1	3.7	4.3	4.9	5.5	6.1
85°	0.0	1.3	2.5	3.8	5.0	6.2	7.4	8.7	9.8	11.0	12.2
82.5°	0.0	1.9	3.8	5.6	7.5	9.3	11.2	13.0	14.4	14.7	14.9
80°	0.0	2.5	5.0	7.5	10.0	12.4	14.5	14.8	15.1	15.4	15.7
77.5°	0.0	3.1	6.2	9.3	12.4	14.5	14.9	15.3	15.7	16.1	17.2
75°	0.0	3.7	7.4	11.2	14.5	14.9	15.4	15.9	16.6	18.7	20.7
72.5°	0.0	4.3	8.7	13.0	14.8	15.3	15.9	16.9	19.4	21.8	24.2
70°	0.0	4.9	9.8	14.4	15.1	15.7	16.6	19.4	22.2	25.1	31.4
67.5°	0.0	5.5	11.0	14.7	15.4	16.1	18.7	21.8	25.1	32.3	39.4
65°	0.0	6.1	12.2	14.9	15.7	17.2	20.7	24.2	31.4	39.4	50.2
62.5°	0.0	6.6	13.3	15.1	16.0	18.8	22.7	28.8	37.7	48.2	67.6
60°	0.0	7.2	14.4	15.3	16.3	20.5	24.7	34.1	43.8	63.6	84.6
57.5°	0.0	7.7	14.5	15.6	17.5	22.1	28.9	39.4	55.6	78.6	122.1
55°	0.0	8.3	14.7	15.8	18.8	23.6	33.2	44.5	68.6	99.2	168.4
52.5°	0.0	8.8	14.8	16.0	20.0	25.5	37.5	54.9	81.3	139.9	213.6
50°	0.0	9.3	14.9	16.2	21.1	28.9	41.6	65.6	100.3	179.3	280.5
47.5°	0.0	9.7	15.1	16.5	22.3	32.2	46.3	76.0	134.1	217.4	348.0
45°	0.0	10.2	15.2	17.3	23.4	35.4	54.8	86.0	166.7	275.4	413.0
42.5°	0.0	10.6	15.3	18.1	24.4	38.4	63.0	105.9	198.1	331.5	495.9
40°	0.0	11.0	15.4	18.8	26.1	41.3	70.8	132.0	233.7	385.2	578.6
37.5°	0.0	11.4	15.5	19.5	28.3	44.1	78.3	156.8	279.0	441.8	657.4
35°	0.0	11.8	15.6	20.2	30.3	48.8	85.3	180.3	321.9	508.7	741.8
32.5°	0.0	12.1	15.7	20.8	32.3	54.3	95.6	202.5	362.3	571.8	835.9
30°	0.0	12.5	15.8	21.4	34.1	59.5	113.2	226.0	400.1	631.0	924.1
27.5°	0.0	12.8	15.9	22.0	35.8	64.2	129.6	256.6	440.3	685.9	1006.3
25°	0.0	13.1	15.9	22.5	37.4	68.6	144.7	284.8	485.0	747.7	1082.3
22.5°	0.0	13.3	16.0	22.9	38.8	72.6	158.5	310.5	525.8	809.4	1156.3
20°	0.0	13.5	16.1	23.3	40.1	76.2	170.9	333.6	562.6	865.1	1223.1
17.5°	0.0	13.7	16.1	23.7	41.2	79.4	181.9	354.2	595.3	914.6	1282.6
15°	0.0	13.9	16.2	24.0	42.2	82.2	191.5	372.1	623.8	957.9	1334.5
12.5°	0.0	14.1	16.2	24.3	43.1	84.6	199.6	387.3	648.0	994.6	1378.7
10°	0.0	14.2	16.2	24.5	43.8	86.5	206.3	399.8	668.0	1024.8	1415.0
7.5°	0.0	14.3	16.3	24.7	44.3	88.0	211.6	409.6	683.5	1048.4	1443.4
5°	0.0	14.3	16.3	24.8	44.7	89.1	215.3	416.6	694.7	1065.3	1463.7
2.5°	0.0	14.4	16.3	24.9	44.9	89.8	217.6	420.8	701.4	1075.5	1475.9
0°	0.0	14.4	16.3	24.9	45.0	90.0	218.3	422.2	703.6	1078.9	1480.0
-2.5°	0.0	14.4	16.3	24.9	44.9	89.8	217.6	420.8	701.4	1075.5	1475.9
-5°	0.0	14.3	16.3	24.8	44.7	89.1	215.3	416.6	694.7	1065.3	1463.7
-7.5°	0.0	14.3	16.3	24.7	44.3	88.0	211.6	409.6	683.5	1048.4	1443.4
-10°	0.0	14.2	16.2	24.5	43.8	86.5	206.3	399.8	668.0	1024.8	1415.0
-12.5°	0.0	14.1	16.2	24.3	43.1	84.6	199.6	387.3	648.0	994.6	1378.7
-15°	0.0	13.9	16.2	24.0	42.2	82.2	191.5	372.1	623.8	957.9	1334.5
-17.5°	0.0	13.7	16.1	23.7	41.2	79.4	181.9	354.2	595.3	914.6	1282.6
-20°	0.0	13.5	16.1	23.3	40.1	76.2	170.9	333.6	562.6	865.1	1223.1



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	13.3	16.0	22.9	38.8	72.6	158.5	310.5	525.8	809.4	1156.3
-25°	0.0	13.1	15.9	22.5	37.4	68.6	144.7	284.8	485.0	747.7	1082.3
-27.5°	0.0	12.8	15.9	22.0	35.8	64.2	129.6	256.6	440.3	685.9	1006.3
-30°	0.0	12.5	15.8	21.4	34.1	59.5	113.2	226.0	400.1	631.0	924.1
-32.5°	0.0	12.1	15.7	20.8	32.3	54.3	95.6	202.5	362.3	571.8	835.9
-35°	0.0	11.8	15.6	20.2	30.3	48.8	85.3	180.3	321.9	508.7	741.8
-37.5°	0.0	11.4	15.5	19.5	28.3	44.1	78.3	156.8	279.0	441.8	657.4
-40°	0.0	11.0	15.4	18.8	26.1	41.3	70.8	132.0	233.7	385.2	578.6
-42.5°	0.0	10.6	15.3	18.1	24.4	38.4	63.0	105.9	198.1	331.5	495.9
-45°	0.0	10.2	15.2	17.3	23.4	35.4	54.8	86.0	166.7	275.4	413.0
-47.5°	0.0	9.7	15.1	16.5	22.3	32.2	46.3	76.0	134.1	217.4	348.0
-50°	0.0	9.3	14.9	16.2	21.1	28.9	41.6	65.6	100.3	179.3	280.5
-52.5°	0.0	8.8	14.8	16.0	20.0	25.5	37.5	54.9	81.3	139.9	213.6
-55°	0.0	8.3	14.7	15.8	18.8	23.6	33.2	44.5	68.6	99.2	168.4
-57.5°	0.0	7.7	14.5	15.6	17.5	22.1	28.9	39.4	55.6	78.6	122.1
-60°	0.0	7.2	14.4	15.3	16.3	20.5	24.7	34.1	43.8	63.6	84.6
-62.5°	0.0	6.6	13.3	15.1	16.0	18.8	22.7	28.8	37.7	48.2	67.6
-65°	0.0	6.1	12.2	14.9	15.7	17.2	20.7	24.2	31.4	39.4	50.2
-67.5°	0.0	5.5	11.0	14.7	15.4	16.1	18.7	21.8	25.1	32.3	39.4
-70°	0.0	4.9	9.8	14.4	15.1	15.7	16.6	19.4	22.2	25.1	31.4
-72.5°	0.0	4.3	8.7	13.0	14.8	15.3	15.9	16.9	19.4	21.8	24.2
-75°	0.0	3.7	7.4	11.2	14.5	14.9	15.4	15.9	16.6	18.7	20.7
-77.5°	0.0	3.1	6.2	9.3	12.4	14.5	14.9	15.3	15.7	16.1	17.2
-80°	0.0	2.5	5.0	7.5	10.0	12.4	14.5	14.8	15.1	15.4	15.7
-82.5°	0.0	1.9	3.8	5.6	7.5	9.3	11.2	13.0	14.4	14.7	14.9
-85°	0.0	1.3	2.5	3.8	5.0	6.2	7.4	8.7	9.8	11.0	12.2
-87.5°	0.0	0.6	1.3	1.9	2.5	3.1	3.7	4.3	4.9	5.5	6.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	-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°	6.6	7.2	7.7	8.3	8.8	9.3	9.7	10.2	10.6	11.0	11.4
85°	13.3	14.4	14.5	14.7	14.8	14.9	15.1	15.2	15.3	15.4	15.5
82.5°	15.1	15.3	15.6	15.8	16.0	16.2	16.5	17.3	18.1	18.8	19.5
80°	16.0	16.3	17.5	18.8	20.0	21.1	22.3	23.4	24.4	26.1	28.3
77.5°	18.8	20.5	22.1	23.6	25.5	28.9	32.2	35.4	38.4	41.3	44.1
75°	22.7	24.7	28.9	33.2	37.5	41.6	46.3	54.8	63.0	70.8	78.3
72.5°	28.8	34.1	39.4	44.5	54.9	65.6	76.0	86.0	105.9	132.0	156.8
70°	37.7	43.8	55.6	68.6	81.3	100.3	134.1	166.7	198.1	233.7	279.0
67.5°	48.2	63.6	78.6	99.2	139.9	179.3	217.4	275.4	331.5	385.2	441.8
65°	67.6	84.6	122.1	168.4	213.6	280.5	348.0	413.0	495.9	578.6	657.4
62.5°	86.6	133.5	185.7	247.5	326.4	403.1	498.4	597.4	692.7	810.9	927.2
60°	133.5	191.5	265.9	354.2	447.1	562.6	674.6	809.4	948.5	1082.3	1218.6
57.5°	185.7	265.9	363.4	472.8	601.4	734.3	896.4	1053.3	1213.2	1368.5	1518.8
55°	247.5	354.2	472.8	614.4	769.1	949.0	1126.9	1307.9	1482.8	1659.0	1827.7
52.5°	326.4	447.1	601.4	769.1	966.6	1164.8	1365.3	1563.5	1760.5	1962.3	2188.1
50°	403.1	562.6	734.3	949.0	1164.8	1384.5	1604.1	1822.0	2064.9	2317.5	2628.7
47.5°	498.4	674.6	896.4	1126.9	1365.3	1604.1	1842.5	2116.6	2395.8	2786.7	3175.3
45°	597.4	809.4	1053.3	1307.9	1563.5	1822.0	2116.6	2422.1	2866.4	3313.1	3802.2
42.5°	692.7	948.5	1213.2	1482.8	1760.5	2064.9	2395.8	2866.4	3361.0	3899.3	4395.1
40°	810.9	1082.3	1368.5	1659.0	1962.3	2317.5	2786.7	3313.1	3899.3	4440.7	4946.6
37.5°	927.2	1218.6	1518.8	1827.7	2188.1	2628.7	3175.3	3802.2	4395.1	4946.6	5506.9
35°	1037.6	1348.2	1667.0	2009.7	2403.7	2975.8	3609.4	4259.3	4854.0	5457.1	6191.8
32.5°	1146.2	1470.6	1807.2	2198.9	2700.9	3324.3	4027.6	4670.3	5308.6	6013.5	7105.6
30°	1250.7	1590.8	1948.4	2377.0	2989.8	3692.2	4398.9	5064.3	5746.2	6832.9	7835.9
27.5°	1348.2	1703.2	2101.3	2603.9	3270.5	4037.2	4740.2	5449.3	6384.7	7559.6	8453.1
25°	1438.1	1807.2	2242.8	2835.0	3566.7	4338.8	5062.3	5808.6	7062.0	8101.4	8925.2
22.5°	1522.4	1902.9	2372.4	3047.0	3838.8	4609.7	5369.8	6352.1	7620.2	8598.6	9336.2
20°	1600.3	2009.7	2523.5	3245.6	4085.8	4855.9	5649.8	6883.0	8047.5	8949.2	9948.8
17.5°	1669.6	2104.9	2680.2	3448.0	4291.7	5081.5	5931.5	7359.8	8432.1	9265.6	10613.3
15°	1730.2	2188.1	2817.3	3625.2	4469.3	5284.5	6318.5	7687.8	8725.9	9621.1	11208.2
12.5°	1781.8	2259.1	2934.2	3776.5	4621.1	5458.2	6650.1	7956.5	8947.9	10089.8	11886.0
10°	1824.3	2317.5	3030.5	3901.3	4746.4	5601.7	6924.3	8179.0	9132.0	10479.2	12450.5
7.5°	1857.5	2363.1	3105.9	3998.9	4844.5	5714.2	7139.4	8353.7	9276.9	10786.0	12896.0
5°	1881.2	2395.8	3159.9	4069.0	4914.9	5795.0	7294.1	8479.4	9381.2	11007.3	13217.8
2.5°	1895.5	2415.5	3192.4	4111.1	4957.3	5843.6	7387.3	8555.3	9444.2	11140.9	13412.3
0°	1900.3	2422.1	3203.3	4125.2	4971.5	5859.9	7418.4	8580.6	9465.2	11185.6	13477.4
-2.5°	1895.5	2415.5	3192.4	4111.1	4957.3	5843.6	7387.3	8555.3	9444.2	11140.9	13412.3
-5°	1881.2	2395.8	3159.9	4069.0	4914.9	5795.0	7294.1	8479.4	9381.2	11007.3	13217.8
-7.5°	1857.5	2363.1	3105.9	3998.9	4844.5	5714.2	7139.4	8353.7	9276.9	10786.0	12896.0
-10°	1824.3	2317.5	3030.5	3901.3	4746.4	5601.7	6924.3	8179.0	9132.0	10479.2	12450.5
-12.5°	1781.8	2259.1	2934.2	3776.5	4621.1	5458.2	6650.1	7956.5	8947.9	10089.8	11886.0
-15°	1730.2	2188.1	2817.3	3625.2	4469.3	5284.5	6318.5	7687.8	8725.9	9621.1	11208.2
-17.5°	1669.6	2104.9	2680.2	3448.0	4291.7	5081.5	5931.5	7359.8	8432.1	9265.6	10613.3
-20°	1600.3	2009.7	2523.5	3245.6	4085.8	4855.9	5649.8	6883.0	8047.5	8949.2	9948.8



REPORT NUMBER: P1212199 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1522.4	1902.9	2372.4	3047.0	3838.8	4609.7	5369.8	6352.1	7620.2	8598.6	9336.2
-25°	1438.1	1807.2	2242.8	2835.0	3566.7	4338.8	5062.3	5808.6	7062.0	8101.4	8925.2
-27.5°	1348.2	1703.2	2101.3	2603.9	3270.5	4037.2	4740.2	5449.3	6384.7	7559.6	8453.1
-30°	1250.7	1590.8	1948.4	2377.0	2989.8	3692.2	4398.9	5064.3	5746.2	6832.9	7835.9
-32.5°	1146.2	1470.6	1807.2	2198.9	2700.9	3324.3	4027.6	4670.3	5308.6	6013.5	7105.6
-35°	1037.6	1348.2	1667.0	2009.7	2403.7	2975.8	3609.4	4259.3	4854.0	5457.1	6191.8
-37.5°	927.2	1218.6	1518.8	1827.7	2188.1	2628.7	3175.3	3802.2	4395.1	4946.6	5506.9
-40°	810.9	1082.3	1368.5	1659.0	1962.3	2317.5	2786.7	3313.1	3899.3	4440.7	4946.6
-42.5°	692.7	948.5	1213.2	1482.8	1760.5	2064.9	2395.8	2866.4	3361.0	3899.3	4395.1
-45°	597.4	809.4	1053.3	1307.9	1563.5	1822.0	2116.6	2422.1	2866.4	3313.1	3802.2
-47.5°	498.4	674.6	896.4	1126.9	1365.3	1604.1	1842.5	2116.6	2395.8	2786.7	3175.3
-50°	403.1	562.6	734.3	949.0	1164.8	1384.5	1604.1	1822.0	2064.9	2317.5	2628.7
-52.5°	326.4	447.1	601.4	769.1	966.6	1164.8	1365.3	1563.5	1760.5	1962.3	2188.1
-55°	247.5	354.2	472.8	614.4	769.1	949.0	1126.9	1307.9	1482.8	1659.0	1827.7
-57.5°	185.7	265.9	363.4	472.8	601.4	734.3	896.4	1053.3	1213.2	1368.5	1518.8
-60°	133.5	191.5	265.9	354.2	447.1	562.6	674.6	809.4	948.5	1082.3	1218.6
-62.5°	86.6	133.5	185.7	247.5	326.4	403.1	498.4	597.4	692.7	810.9	927.2
-65°	67.6	84.6	122.1	168.4	213.6	280.5	348.0	413.0	495.9	578.6	657.4
-67.5°	48.2	63.6	78.6	99.2	139.9	179.3	217.4	275.4	331.5	385.2	441.8
-70°	37.7	43.8	55.6	68.6	81.3	100.3	134.1	166.7	198.1	233.7	279.0
-72.5°	28.8	34.1	39.4	44.5	54.9	65.6	76.0	86.0	105.9	132.0	156.8
-75°	22.7	24.7	28.9	33.2	37.5	41.6	46.3	54.8	63.0	70.8	78.3
-77.5°	18.8	20.5	22.1	23.6	25.5	28.9	32.2	35.4	38.4	41.3	44.1
-80°	16.0	16.3	17.5	18.8	20.0	21.1	22.3	23.4	24.4	26.1	28.3
-82.5°	15.1	15.3	15.6	15.8	16.0	16.2	16.5	17.3	18.1	18.8	19.5
-85°	13.3	14.4	14.5	14.7	14.8	14.9	15.1	15.2	15.3	15.4	15.5
-87.5°	6.6	7.2	7.7	8.3	8.8	9.3	9.7	10.2	10.6	11.0	11.4
-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: P1212199 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	11.8	12.1	12.5	12.8	13.1	13.3	13.5	13.7	13.9	14.1	14.2
85°	15.6	15.7	15.8	15.9	15.9	16.0	16.1	16.1	16.2	16.2	16.2
82.5°	20.2	20.8	21.4	22.0	22.5	22.9	23.3	23.7	24.0	24.3	24.5
80°	30.3	32.3	34.1	35.8	37.4	38.8	40.1	41.2	42.2	43.1	43.8
77.5°	48.8	54.3	59.5	64.2	68.6	72.6	76.2	79.4	82.2	84.6	86.5
75°	85.3	95.6	113.2	129.6	144.7	158.5	170.9	181.9	191.5	199.6	206.3
72.5°	180.3	202.5	226.0	256.6	284.8	310.5	333.6	354.2	372.1	387.3	399.8
70°	321.9	362.3	400.1	440.3	485.0	525.8	562.6	595.3	623.8	648.0	668.0
67.5°	508.7	571.8	631.0	685.9	747.7	809.4	865.1	914.6	957.9	994.6	1024.8
65°	741.8	835.9	924.1	1006.3	1082.3	1156.3	1223.1	1282.6	1334.5	1378.7	1415.0
62.5°	1037.6	1146.2	1250.7	1348.2	1438.1	1522.4	1600.3	1669.6	1730.2	1781.8	1824.3
60°	1348.2	1470.6	1590.8	1703.2	1807.2	1902.9	2009.7	2104.9	2188.1	2259.1	2317.5
57.5°	1667.0	1807.2	1948.4	2101.3	2242.8	2372.4	2523.5	2680.2	2817.3	2934.2	3030.5
55°	2009.7	2198.9	2377.0	2603.9	2835.0	3047.0	3245.6	3448.0	3625.2	3776.5	3901.3
52.5°	2403.7	2700.9	2989.8	3270.5	3566.7	3838.8	4085.8	4291.7	4469.3	4621.1	4746.4
50°	2975.8	3324.3	3692.2	4037.2	4338.8	4609.7	4855.9	5081.5	5284.5	5458.2	5601.7
47.5°	3609.4	4027.6	4398.9	4740.2	5062.3	5369.8	5649.8	5931.5	6318.5	6650.1	6924.3
45°	4259.3	4670.3	5064.3	5449.3	5808.6	6352.1	6883.0	7359.8	7687.8	7956.5	8179.0
42.5°	4854.0	5308.6	5746.2	6384.7	7062.0	7620.2	8047.5	8432.1	8725.9	8947.9	9132.0
40°	5457.1	6013.5	6832.9	7559.6	8101.4	8598.6	8949.2	9265.6	9621.1	10089.8	10479.2
37.5°	6191.8	7105.6	7835.9	8453.1	8925.2	9336.2	9948.8	10613.3	11208.2	11886.0	12450.5
35°	7197.1	7975.6	8646.6	9147.4	9765.6	10623.2	11489.5	12445.3	13295.5	14045.3	14675.0
32.5°	7975.6	8701.4	9259.9	10102.3	11083.2	12273.4	13406.3	14461.6	15405.2	16301.8	17119.9
30°	8646.6	9259.9	10215.6	11360.0	12753.3	14078.3	15325.9	16589.9	17808.6	18893.8	19865.0
27.5°	9147.4	10102.3	11360.0	12914.9	14420.7	15862.7	17459.4	18953.8	20390.3	21650.4	22956.1
25°	9765.6	11083.2	12753.3	14420.7	16075.9	17902.5	19703.0	21425.1	23289.0	24980.3	26920.7
22.5°	10623.2	12273.4	14078.3	15862.7	17902.5	19956.4	22022.5	24306.1	26881.3	29636.0	33451.3
20°	11489.5	13406.3	15325.9	17459.4	19703.0	22022.5	24651.1	27959.9	31893.4	39033.7	47013.1
17.5°	12445.3	14461.6	16589.9	18953.8	21425.1	24306.1	27959.9	33258.2	41927.8	58471.2	75630.6
15°	13295.5	15405.2	17808.6	20390.3	23289.0	26881.3	31893.4	41927.8	62401.3	90447.3	126233.6
12.5°	14045.3	16301.8	18893.8	21650.4	24980.3	29636.0	39033.7	58471.2	90447.3	134925.3	188909.0
10°	14675.0	17119.9	19865.0	22956.1	26920.7	33451.3	47013.1	75630.6	126233.6	188909.0	253889.3
7.5°	15173.1	17768.8	20637.9	24000.6	28637.0	37952.2	59588.2	101167.5	163120.7	237594.3	313904.7
5°	15533.6	18239.4	21200.0	24762.8	29895.0	41270.5	68930.7	120999.9	194396.3	278190.0	362323.4
2.5°	15751.7	18524.7	21541.5	25227.0	30663.5	43306.2	74695.6	133338.2	214088.2	304133.4	393167.6
0°	15824.8	18620.3	21656.0	25382.9	30922.1	43992.6	76645.6	137530.4	220824.7	313063.9	403927.4
-2.5°	15751.7	18524.7	21541.5	25227.0	30663.5	43306.2	74695.6	133338.2	214088.2	304133.4	393167.6
-5°	15533.6	18239.4	21200.0	24762.8	29895.0	41270.5	68930.7	120999.9	194396.3	278190.0	362323.4
-7.5°	15173.1	17768.8	20637.9	24000.6	28637.0	37952.2	59588.2	101167.5	163120.7	237594.3	313904.7
-10°	14675.0	17119.9	19865.0	22956.1	26920.7	33451.3	47013.1	75630.6	126233.6	188909.0	253889.3
-12.5°	14045.3	16301.8	18893.8	21650.4	24980.3	29636.0	39033.7	58471.2	90447.3	134925.3	188909.0
-15°	13295.5	15405.2	17808.6	20390.3	23289.0	26881.3	31893.4	41927.8	62401.3	90447.3	126233.6
-17.5°	12445.3	14461.6	16589.9	18953.8	21425.1	24306.1	27959.9	33258.2	41927.8	58471.2	75630.6
-20°	11489.5	13406.3	15325.9	17459.4	19703.0	22022.5	24651.1	27959.9	31893.4	39033.7	47013.1



REPORT NUMBER: P1212199 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	10623.2	12273.4	14078.3	15862.7	17902.5	19956.4	22022.5	24306.1	26881.3	29636.0	33451.3
-25°	9765.6	11083.2	12753.3	14420.7	16075.9	17902.5	19703.0	21425.1	23289.0	24980.3	26920.7
-27.5°	9147.4	10102.3	11360.0	12914.9	14420.7	15862.7	17459.4	18953.8	20390.3	21650.4	22956.1
-30°	8646.6	9259.9	10215.6	11360.0	12753.3	14078.3	15325.9	16589.9	17808.6	18893.8	19865.0
-32.5°	7975.6	8701.4	9259.9	10102.3	11083.2	12273.4	13406.3	14461.6	15405.2	16301.8	17119.9
-35°	7197.1	7975.6	8646.6	9147.4	9765.6	10623.2	11489.5	12445.3	13295.5	14045.3	14675.0
-37.5°	6191.8	7105.6	7835.9	8453.1	8925.2	9336.2	9948.8	10613.3	11208.2	11886.0	12450.5
-40°	5457.1	6013.5	6832.9	7559.6	8101.4	8598.6	8949.2	9265.6	9621.1	10089.8	10479.2
-42.5°	4854.0	5308.6	5746.2	6384.7	7062.0	7620.2	8047.5	8432.1	8725.9	8947.9	9132.0
-45°	4259.3	4670.3	5064.3	5449.3	5808.6	6352.1	6883.0	7359.8	7687.8	7956.5	8179.0
-47.5°	3609.4	4027.6	4398.9	4740.2	5062.3	5369.8	5649.8	5931.5	6318.5	6650.1	6924.3
-50°	2975.8	3324.3	3692.2	4037.2	4338.8	4609.7	4855.9	5081.5	5284.5	5458.2	5601.7
-52.5°	2403.7	2700.9	2989.8	3270.5	3566.7	3838.8	4085.8	4291.7	4469.3	4621.1	4746.4
-55°	2009.7	2198.9	2377.0	2603.9	2835.0	3047.0	3245.6	3448.0	3625.2	3776.5	3901.3
-57.5°	1667.0	1807.2	1948.4	2101.3	2242.8	2372.4	2523.5	2680.2	2817.3	2934.2	3030.5
-60°	1348.2	1470.6	1590.8	1703.2	1807.2	1902.9	2009.7	2104.9	2188.1	2259.1	2317.5
-62.5°	1037.6	1146.2	1250.7	1348.2	1438.1	1522.4	1600.3	1669.6	1730.2	1781.8	1824.3
-65°	741.8	835.9	924.1	1006.3	1082.3	1156.3	1223.1	1282.6	1334.5	1378.7	1415.0
-67.5°	508.7	571.8	631.0	685.9	747.7	809.4	865.1	914.6	957.9	994.6	1024.8
-70°	321.9	362.3	400.1	440.3	485.0	525.8	562.6	595.3	623.8	648.0	668.0
-72.5°	180.3	202.5	226.0	256.6	284.8	310.5	333.6	354.2	372.1	387.3	399.8
-75°	85.3	95.6	113.2	129.6	144.7	158.5	170.9	181.9	191.5	199.6	206.3
-77.5°	48.8	54.3	59.5	64.2	68.6	72.6	76.2	79.4	82.2	84.6	86.5
-80°	30.3	32.3	34.1	35.8	37.4	38.8	40.1	41.2	42.2	43.1	43.8
-82.5°	20.2	20.8	21.4	22.0	22.5	22.9	23.3	23.7	24.0	24.3	24.5
-85°	15.6	15.7	15.8	15.9	15.9	16.0	16.1	16.1	16.2	16.2	16.2
-87.5°	11.8	12.1	12.5	12.8	13.1	13.3	13.5	13.7	13.9	14.1	14.2
-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: P1212199 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-2S-HEG

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°	14.3	14.3	14.4	14.4	14.4	14.3	14.3	14.2	14.1	13.9	13.7
85°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.2	16.2	16.2	16.1
82.5°	24.7	24.8	24.9	24.9	24.9	24.8	24.7	24.5	24.3	24.0	23.7
80°	44.3	44.7	44.9	45.0	44.9	44.7	44.3	43.8	43.1	42.2	41.2
77.5°	88.0	89.1	89.8	90.0	89.8	89.1	88.0	86.5	84.6	82.2	79.4
75°	211.6	215.3	217.6	218.3	217.6	215.3	211.6	206.3	199.6	191.5	181.9
72.5°	409.6	416.6	420.8	422.2	420.8	416.6	409.6	399.8	387.3	372.1	354.2
70°	683.5	694.7	701.4	703.6	701.4	694.7	683.5	668.0	648.0	623.8	595.3
67.5°	1048.4	1065.3	1075.5	1078.9	1075.5	1065.3	1048.4	1024.8	994.6	957.9	914.6
65°	1443.4	1463.7	1475.9	1480.0	1475.9	1463.7	1443.4	1415.0	1378.7	1334.5	1282.6
62.5°	1857.5	1881.2	1895.5	1900.3	1895.5	1881.2	1857.5	1824.3	1781.8	1730.2	1669.6
60°	2363.1	2395.8	2415.5	2422.1	2415.5	2395.8	2363.1	2317.5	2259.1	2188.1	2104.9
57.5°	3105.9	3159.9	3192.4	3203.3	3192.4	3159.9	3105.9	3030.5	2934.2	2817.3	2680.2
55°	3998.9	4069.0	4111.1	4125.2	4111.1	4069.0	3998.9	3901.3	3776.5	3625.2	3448.0
52.5°	4844.5	4914.9	4957.3	4971.5	4957.3	4914.9	4844.5	4746.4	4621.1	4469.3	4291.7
50°	5714.2	5795.0	5843.6	5859.9	5843.6	5795.0	5714.2	5601.7	5458.2	5284.5	5081.5
47.5°	7139.4	7294.1	7387.3	7418.4	7387.3	7294.1	7139.4	6924.3	6650.1	6318.5	5931.5
45°	8353.7	8479.4	8555.3	8580.6	8555.3	8479.4	8353.7	8179.0	7956.5	7687.8	7359.8
42.5°	9276.9	9381.2	9444.2	9465.2	9444.2	9381.2	9276.9	9132.0	8947.9	8725.9	8432.1
40°	10786.0	11007.3	11140.9	11185.6	11140.9	11007.3	10786.0	10479.2	10089.8	9621.1	9265.6
37.5°	12896.0	13217.8	13412.3	13477.4	13412.3	13217.8	12896.0	12450.5	11886.0	11208.2	10613.3
35°	15173.1	15533.6	15751.7	15824.8	15751.7	15533.6	15173.1	14675.0	14045.3	13295.5	12445.3
32.5°	17768.8	18239.4	18524.7	18620.3	18524.7	18239.4	17768.8	17119.9	16301.8	15405.2	14461.6
30°	20637.9	21200.0	21541.5	21656.0	21541.5	21200.0	20637.9	19865.0	18893.8	17808.6	16589.9
27.5°	24000.6	24762.8	25227.0	25382.9	25227.0	24762.8	24000.6	22956.1	21650.4	20390.3	18953.8
25°	28637.0	29895.0	30663.5	30922.1	30663.5	29895.0	28637.0	26920.7	24980.3	23289.0	21425.1
22.5°	37952.2	41270.5	43306.2	43992.6	43306.2	41270.5	37952.2	33451.3	29636.0	26881.3	24306.1
20°	59588.2	68930.7	74695.6	76645.6	74695.6	68930.7	59588.2	47013.1	39033.7	31893.4	27959.9
17.5°	101167.5	120999.9	133338.2	137530.4	133338.2	120999.9	101167.5	75630.6	58471.2	41927.8	33258.2
15°	163120.7	194396.3	214088.2	220824.7	214088.2	194396.3	163120.7	126233.6	90447.3	62401.3	41927.8
12.5°	237594.3	278190.0	304133.4	313063.9	304133.4	278190.0	237594.3	188909.0	134925.3	90447.3	58471.2
10°	313904.7	362323.4	393167.6	403927.4	393167.6	362323.4	313904.7	253889.3	188909.0	126233.6	75630.6
7.5°	383041.5	441441.5	485300.4	501522.9	485300.4	441441.5	383041.5	313904.7	237594.3	163120.7	101167.5
5°	441441.5	518951.5	583695.4	609821.5	583695.4	518951.5	441441.5	362323.4	278190.0	194396.3	120999.9
2.5°	485300.4	583695.4	672723.1	712633.5	672723.1	583695.4	485300.4	393167.6	304133.4	214088.2	133338.2
0°	501522.9	609821.5	712633.5	758549.9	712633.5	609821.5	501522.9	403927.4	313063.9	220824.7	137530.4
-2.5°	485300.4	583695.4	672723.1	712633.5	672723.1	583695.4	485300.4	393167.6	304133.4	214088.2	133338.2
-5°	441441.5	518951.5	583695.4	609821.5	583695.4	518951.5	441441.5	362323.4	278190.0	194396.3	120999.9
-7.5°	383041.5	441441.5	485300.4	501522.9	485300.4	441441.5	383041.5	313904.7	237594.3	163120.7	101167.5
-10°	313904.7	362323.4	393167.6	403927.4	393167.6	362323.4	313904.7	253889.3	188909.0	126233.6	75630.6
-12.5°	237594.3	278190.0	304133.4	313063.9	304133.4	278190.0	237594.3	188909.0	134925.3	90447.3	58471.2
-15°	163120.7	194396.3	214088.2	220824.7	214088.2	194396.3	163120.7	126233.6	90447.3	62401.3	41927.8
-17.5°	101167.5	120999.9	133338.2	137530.4	133338.2	120999.9	101167.5	75630.6	58471.2	41927.8	33258.2
-20°	59588.2	68930.7	74695.6	76645.6	74695.6	68930.7	59588.2	47013.1	39033.7	31893.4	27959.9



REPORT NUMBER: P1212199 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	37952.2	41270.5	43306.2	43992.6	43306.2	41270.5	37952.2	33451.3	29636.0	26881.3	24306.1
-25°	28637.0	29895.0	30663.5	30922.1	30663.5	29895.0	28637.0	26920.7	24980.3	23289.0	21425.1
-27.5°	24000.6	24762.8	25227.0	25382.9	25227.0	24762.8	24000.6	22956.1	21650.4	20390.3	18953.8
-30°	20637.9	21200.0	21541.5	21656.0	21541.5	21200.0	20637.9	19865.0	18893.8	17808.6	16589.9
-32.5°	17768.8	18239.4	18524.7	18620.3	18524.7	18239.4	17768.8	17119.9	16301.8	15405.2	14461.6
-35°	15173.1	15533.6	15751.7	15824.8	15751.7	15533.6	15173.1	14675.0	14045.3	13295.5	12445.3
-37.5°	12896.0	13217.8	13412.3	13477.4	13412.3	13217.8	12896.0	12450.5	11886.0	11208.2	10613.3
-40°	10786.0	11007.3	11140.9	11185.6	11140.9	11007.3	10786.0	10479.2	10089.8	9621.1	9265.6
-42.5°	9276.9	9381.2	9444.2	9465.2	9444.2	9381.2	9276.9	9132.0	8947.9	8725.9	8432.1
-45°	8353.7	8479.4	8555.3	8580.6	8555.3	8479.4	8353.7	8179.0	7956.5	7687.8	7359.8
-47.5°	7139.4	7294.1	7387.3	7418.4	7387.3	7294.1	7139.4	6924.3	6650.1	6318.5	5931.5
-50°	5714.2	5795.0	5843.6	5859.9	5843.6	5795.0	5714.2	5601.7	5458.2	5284.5	5081.5
-52.5°	4844.5	4914.9	4957.3	4971.5	4957.3	4914.9	4844.5	4746.4	4621.1	4469.3	4291.7
-55°	3998.9	4069.0	4111.1	4125.2	4111.1	4069.0	3998.9	3901.3	3776.5	3625.2	3448.0
-57.5°	3105.9	3159.9	3192.4	3203.3	3192.4	3159.9	3105.9	3030.5	2934.2	2817.3	2680.2
-60°	2363.1	2395.8	2415.5	2422.1	2415.5	2395.8	2363.1	2317.5	2259.1	2188.1	2104.9
-62.5°	1857.5	1881.2	1895.5	1900.3	1895.5	1881.2	1857.5	1824.3	1781.8	1730.2	1669.6
-65°	1443.4	1463.7	1475.9	1480.0	1475.9	1463.7	1443.4	1415.0	1378.7	1334.5	1282.6
-67.5°	1048.4	1065.3	1075.5	1078.9	1075.5	1065.3	1048.4	1024.8	994.6	957.9	914.6
-70°	683.5	694.7	701.4	703.6	701.4	694.7	683.5	668.0	648.0	623.8	595.3
-72.5°	409.6	416.6	420.8	422.2	420.8	416.6	409.6	399.8	387.3	372.1	354.2
-75°	211.6	215.3	217.6	218.3	217.6	215.3	211.6	206.3	199.6	191.5	181.9
-77.5°	88.0	89.1	89.8	90.0	89.8	89.1	88.0	86.5	84.6	82.2	79.4
-80°	44.3	44.7	44.9	45.0	44.9	44.7	44.3	43.8	43.1	42.2	41.2
-82.5°	24.7	24.8	24.9	24.9	24.9	24.8	24.7	24.5	24.3	24.0	23.7
-85°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.2	16.2	16.2	16.1
-87.5°	14.3	14.3	14.4	14.4	14.4	14.3	14.3	14.2	14.1	13.9	13.7
-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°	13.5	13.3	13.1	12.8	12.5	12.1	11.8	11.4	11.0	10.6	10.2
85°	16.1	16.0	15.9	15.9	15.8	15.7	15.6	15.5	15.4	15.3	15.2
82.5°	23.3	22.9	22.5	22.0	21.4	20.8	20.2	19.5	18.8	18.1	17.3
80°	40.1	38.8	37.4	35.8	34.1	32.3	30.3	28.3	26.1	24.4	23.4
77.5°	76.2	72.6	68.6	64.2	59.5	54.3	48.8	44.1	41.3	38.4	35.4
75°	170.9	158.5	144.7	129.6	113.2	95.6	85.3	78.3	70.8	63.0	54.8
72.5°	333.6	310.5	284.8	256.6	226.0	202.5	180.3	156.8	132.0	105.9	86.0
70°	562.6	525.8	485.0	440.3	400.1	362.3	321.9	279.0	233.7	198.1	166.7
67.5°	865.1	809.4	747.7	685.9	631.0	571.8	508.7	441.8	385.2	331.5	275.4
65°	1223.1	1156.3	1082.3	1006.3	924.1	835.9	741.8	657.4	578.6	495.9	413.0
62.5°	1600.3	1522.4	1438.1	1348.2	1250.7	1146.2	1037.6	927.2	810.9	692.7	597.4
60°	2009.7	1902.9	1807.2	1703.2	1590.8	1470.6	1348.2	1218.6	1082.3	948.5	809.4
57.5°	2523.5	2372.4	2242.8	2101.3	1948.4	1807.2	1667.0	1518.8	1368.5	1213.2	1053.3
55°	3245.6	3047.0	2835.0	2603.9	2377.0	2198.9	2009.7	1827.7	1659.0	1482.8	1307.9
52.5°	4085.8	3838.8	3566.7	3270.5	2989.8	2700.9	2403.7	2188.1	1962.3	1760.5	1563.5
50°	4855.9	4609.7	4338.8	4037.2	3692.2	3324.3	2975.8	2628.7	2317.5	2064.9	1822.0
47.5°	5649.8	5369.8	5062.3	4740.2	4398.9	4027.6	3609.4	3175.3	2786.7	2395.8	2116.6
45°	6883.0	6352.1	5808.6	5449.3	5064.3	4670.3	4259.3	3802.2	3313.1	2866.4	2422.1
42.5°	8047.5	7620.2	7062.0	6384.7	5746.2	5308.6	4854.0	4395.1	3899.3	3361.0	2866.4
40°	8949.2	8598.6	8101.4	7559.6	6832.9	6013.5	5457.1	4946.6	4440.7	3899.3	3313.1
37.5°	9948.8	9336.2	8925.2	8453.1	7835.9	7105.6	6191.8	5506.9	4946.6	4395.1	3802.2
35°	11489.5	10623.2	9765.6	9147.4	8646.6	7975.6	7197.1	6191.8	5457.1	4854.0	4259.3
32.5°	13406.3	12273.4	11083.2	10102.3	9259.9	8701.4	7975.6	7105.6	6013.5	5308.6	4670.3
30°	15325.9	14078.3	12753.3	11360.0	10215.6	9259.9	8646.6	7835.9	6832.9	5746.2	5064.3
27.5°	17459.4	15862.7	14420.7	12914.9	11360.0	10102.3	9147.4	8453.1	7559.6	6384.7	5449.3
25°	19703.0	17902.5	16075.9	14420.7	12753.3	11083.2	9765.6	8925.2	8101.4	7062.0	5808.6
22.5°	22022.5	19956.4	17902.5	15862.7	14078.3	12273.4	10623.2	9336.2	8598.6	7620.2	6352.1
20°	24651.1	22022.5	19703.0	17459.4	15325.9	13406.3	11489.5	9948.8	8949.2	8047.5	6883.0
17.5°	27959.9	24306.1	21425.1	18953.8	16589.9	14461.6	12445.3	10613.3	9265.6	8432.1	7359.8
15°	31893.4	26881.3	23289.0	20390.3	17808.6	15405.2	13295.5	11208.2	9621.1	8725.9	7687.8
12.5°	39033.7	29636.0	24980.3	21650.4	18893.8	16301.8	14045.3	11886.0	10089.8	8947.9	7956.5
10°	47013.1	33451.3	26920.7	22956.1	19865.0	17119.9	14675.0	12450.5	10479.2	9132.0	8179.0
7.5°	59588.2	37952.2	28637.0	24000.6	20637.9	17768.8	15173.1	12896.0	10786.0	9276.9	8353.7
5°	68930.7	41270.5	29895.0	24762.8	21200.0	18239.4	15533.6	13217.8	11007.3	9381.2	8479.4
2.5°	74695.6	43306.2	30663.5	25227.0	21541.5	18524.7	15751.7	13412.3	11140.9	9444.2	8555.3
0°	76645.6	43992.6	30922.1	25382.9	21656.0	18620.3	15824.8	13477.4	11185.6	9465.2	8580.6
-2.5°	74695.6	43306.2	30663.5	25227.0	21541.5	18524.7	15751.7	13412.3	11140.9	9444.2	8555.3
-5°	68930.7	41270.5	29895.0	24762.8	21200.0	18239.4	15533.6	13217.8	11007.3	9381.2	8479.4
-7.5°	59588.2	37952.2	28637.0	24000.6	20637.9	17768.8	15173.1	12896.0	10786.0	9276.9	8353.7
-10°	47013.1	33451.3	26920.7	22956.1	19865.0	17119.9	14675.0	12450.5	10479.2	9132.0	8179.0
-12.5°	39033.7	29636.0	24980.3	21650.4	18893.8	16301.8	14045.3	11886.0	10089.8	8947.9	7956.5
-15°	31893.4	26881.3	23289.0	20390.3	17808.6	15405.2	13295.5	11208.2	9621.1	8725.9	7687.8
-17.5°	27959.9	24306.1	21425.1	18953.8	16589.9	14461.6	12445.3	10613.3	9265.6	8432.1	7359.8
-20°	24651.1	22022.5	19703.0	17459.4	15325.9	13406.3	11489.5	9948.8	8949.2	8047.5	6883.0



REPORT NUMBER: P1212199 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-2S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	22022.5	19956.4	17902.5	15862.7	14078.3	12273.4	10623.2	9336.2	8598.6	7620.2	6352.1
-25°	19703.0	17902.5	16075.9	14420.7	12753.3	11083.2	9765.6	8925.2	8101.4	7062.0	5808.6
-27.5°	17459.4	15862.7	14420.7	12914.9	11360.0	10102.3	9147.4	8453.1	7559.6	6384.7	5449.3
-30°	15325.9	14078.3	12753.3	11360.0	10215.6	9259.9	8646.6	7835.9	6832.9	5746.2	5064.3
-32.5°	13406.3	12273.4	11083.2	10102.3	9259.9	8701.4	7975.6	7105.6	6013.5	5308.6	4670.3
-35°	11489.5	10623.2	9765.6	9147.4	8646.6	7975.6	7197.1	6191.8	5457.1	4854.0	4259.3
-37.5°	9948.8	9336.2	8925.2	8453.1	7835.9	7105.6	6191.8	5506.9	4946.6	4395.1	3802.2
-40°	8949.2	8598.6	8101.4	7559.6	6832.9	6013.5	5457.1	4946.6	4440.7	3899.3	3313.1
-42.5°	8047.5	7620.2	7062.0	6384.7	5746.2	5308.6	4854.0	4395.1	3899.3	3361.0	2866.4
-45°	6883.0	6352.1	5808.6	5449.3	5064.3	4670.3	4259.3	3802.2	3313.1	2866.4	2422.1
-47.5°	5649.8	5369.8	5062.3	4740.2	4398.9	4027.6	3609.4	3175.3	2786.7	2395.8	2116.6
-50°	4855.9	4609.7	4338.8	4037.2	3692.2	3324.3	2975.8	2628.7	2317.5	2064.9	1822.0
-52.5°	4085.8	3838.8	3566.7	3270.5	2989.8	2700.9	2403.7	2188.1	1962.3	1760.5	1563.5
-55°	3245.6	3047.0	2835.0	2603.9	2377.0	2198.9	2009.7	1827.7	1659.0	1482.8	1307.9
-57.5°	2523.5	2372.4	2242.8	2101.3	1948.4	1807.2	1667.0	1518.8	1368.5	1213.2	1053.3
-60°	2009.7	1902.9	1807.2	1703.2	1590.8	1470.6	1348.2	1218.6	1082.3	948.5	809.4
-62.5°	1600.3	1522.4	1438.1	1348.2	1250.7	1146.2	1037.6	927.2	810.9	692.7	597.4
-65°	1223.1	1156.3	1082.3	1006.3	924.1	835.9	741.8	657.4	578.6	495.9	413.0
-67.5°	865.1	809.4	747.7	685.9	631.0	571.8	508.7	441.8	385.2	331.5	275.4
-70°	562.6	525.8	485.0	440.3	400.1	362.3	321.9	279.0	233.7	198.1	166.7
-72.5°	333.6	310.5	284.8	256.6	226.0	202.5	180.3	156.8	132.0	105.9	86.0
-75°	170.9	158.5	144.7	129.6	113.2	95.6	85.3	78.3	70.8	63.0	54.8
-77.5°	76.2	72.6	68.6	64.2	59.5	54.3	48.8	44.1	41.3	38.4	35.4
-80°	40.1	38.8	37.4	35.8	34.1	32.3	30.3	28.3	26.1	24.4	23.4
-82.5°	23.3	22.9	22.5	22.0	21.4	20.8	20.2	19.5	18.8	18.1	17.3
-85°	16.1	16.0	15.9	15.9	15.8	15.7	15.6	15.5	15.4	15.3	15.2
-87.5°	13.5	13.3	13.1	12.8	12.5	12.1	11.8	11.4	11.0	10.6	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: P1212199 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-2S-HEG

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°	9.7	9.3	8.8	8.3	7.7	7.2	6.6	6.1	5.5	4.9	4.3
85°	15.1	14.9	14.8	14.7	14.5	14.4	13.3	12.2	11.0	9.8	8.7
82.5°	16.5	16.2	16.0	15.8	15.6	15.3	15.1	14.9	14.7	14.4	13.0
80°	22.3	21.1	20.0	18.8	17.5	16.3	16.0	15.7	15.4	15.1	14.8
77.5°	32.2	28.9	25.5	23.6	22.1	20.5	18.8	17.2	16.1	15.7	15.3
75°	46.3	41.6	37.5	33.2	28.9	24.7	22.7	20.7	18.7	16.6	15.9
72.5°	76.0	65.6	54.9	44.5	39.4	34.1	28.8	24.2	21.8	19.4	16.9
70°	134.1	100.3	81.3	68.6	55.6	43.8	37.7	31.4	25.1	22.2	19.4
67.5°	217.4	179.3	139.9	99.2	78.6	63.6	48.2	39.4	32.3	25.1	21.8
65°	348.0	280.5	213.6	168.4	122.1	84.6	67.6	50.2	39.4	31.4	24.2
62.5°	498.4	403.1	326.4	247.5	185.7	133.5	86.6	67.6	48.2	37.7	28.8
60°	674.6	562.6	447.1	354.2	265.9	191.5	133.5	84.6	63.6	43.8	34.1
57.5°	896.4	734.3	601.4	472.8	363.4	265.9	185.7	122.1	78.6	55.6	39.4
55°	1126.9	949.0	769.1	614.4	472.8	354.2	247.5	168.4	99.2	68.6	44.5
52.5°	1365.3	1164.8	966.6	769.1	601.4	447.1	326.4	213.6	139.9	81.3	54.9
50°	1604.1	1384.5	1164.8	949.0	734.3	562.6	403.1	280.5	179.3	100.3	65.6
47.5°	1842.5	1604.1	1365.3	1126.9	896.4	674.6	498.4	348.0	217.4	134.1	76.0
45°	2116.6	1822.0	1563.5	1307.9	1053.3	809.4	597.4	413.0	275.4	166.7	86.0
42.5°	2395.8	2064.9	1760.5	1482.8	1213.2	948.5	692.7	495.9	331.5	198.1	105.9
40°	2786.7	2317.5	1962.3	1659.0	1368.5	1082.3	810.9	578.6	385.2	233.7	132.0
37.5°	3175.3	2628.7	2188.1	1827.7	1518.8	1218.6	927.2	657.4	441.8	279.0	156.8
35°	3609.4	2975.8	2403.7	2009.7	1667.0	1348.2	1037.6	741.8	508.7	321.9	180.3
32.5°	4027.6	3324.3	2700.9	2198.9	1807.2	1470.6	1146.2	835.9	571.8	362.3	202.5
30°	4398.9	3692.2	2989.8	2377.0	1948.4	1590.8	1250.7	924.1	631.0	400.1	226.0
27.5°	4740.2	4037.2	3270.5	2603.9	2101.3	1703.2	1348.2	1006.3	685.9	440.3	256.6
25°	5062.3	4338.8	3566.7	2835.0	2242.8	1807.2	1438.1	1082.3	747.7	485.0	284.8
22.5°	5369.8	4609.7	3838.8	3047.0	2372.4	1902.9	1522.4	1156.3	809.4	525.8	310.5
20°	5649.8	4855.9	4085.8	3245.6	2523.5	2009.7	1600.3	1223.1	865.1	562.6	333.6
17.5°	5931.5	5081.5	4291.7	3448.0	2680.2	2104.9	1669.6	1282.6	914.6	595.3	354.2
15°	6318.5	5284.5	4469.3	3625.2	2817.3	2188.1	1730.2	1334.5	957.9	623.8	372.1
12.5°	6650.1	5458.2	4621.1	3776.5	2934.2	2259.1	1781.8	1378.7	994.6	648.0	387.3
10°	6924.3	5601.7	4746.4	3901.3	3030.5	2317.5	1824.3	1415.0	1024.8	668.0	399.8
7.5°	7139.4	5714.2	4844.5	3998.9	3105.9	2363.1	1857.5	1443.4	1048.4	683.5	409.6
5°	7294.1	5795.0	4914.9	4069.0	3159.9	2395.8	1881.2	1463.7	1065.3	694.7	416.6
2.5°	7387.3	5843.6	4957.3	4111.1	3192.4	2415.5	1895.5	1475.9	1075.5	701.4	420.8
0°	7418.4	5859.9	4971.5	4125.2	3203.3	2422.1	1900.3	1480.0	1078.9	703.6	422.2
-2.5°	7387.3	5843.6	4957.3	4111.1	3192.4	2415.5	1895.5	1475.9	1075.5	701.4	420.8
-5°	7294.1	5795.0	4914.9	4069.0	3159.9	2395.8	1881.2	1463.7	1065.3	694.7	416.6
-7.5°	7139.4	5714.2	4844.5	3998.9	3105.9	2363.1	1857.5	1443.4	1048.4	683.5	409.6
-10°	6924.3	5601.7	4746.4	3901.3	3030.5	2317.5	1824.3	1415.0	1024.8	668.0	399.8
-12.5°	6650.1	5458.2	4621.1	3776.5	2934.2	2259.1	1781.8	1378.7	994.6	648.0	387.3
-15°	6318.5	5284.5	4469.3	3625.2	2817.3	2188.1	1730.2	1334.5	957.9	623.8	372.1
-17.5°	5931.5	5081.5	4291.7	3448.0	2680.2	2104.9	1669.6	1282.6	914.6	595.3	354.2
-20°	5649.8	4855.9	4085.8	3245.6	2523.5	2009.7	1600.3	1223.1	865.1	562.6	333.6



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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°	5369.8	4609.7	3838.8	3047.0	2372.4	1902.9	1522.4	1156.3	809.4	525.8	310.5
-25°	5062.3	4338.8	3566.7	2835.0	2242.8	1807.2	1438.1	1082.3	747.7	485.0	284.8
-27.5°	4740.2	4037.2	3270.5	2603.9	2101.3	1703.2	1348.2	1006.3	685.9	440.3	256.6
-30°	4398.9	3692.2	2989.8	2377.0	1948.4	1590.8	1250.7	924.1	631.0	400.1	226.0
-32.5°	4027.6	3324.3	2700.9	2198.9	1807.2	1470.6	1146.2	835.9	571.8	362.3	202.5
-35°	3609.4	2975.8	2403.7	2009.7	1667.0	1348.2	1037.6	741.8	508.7	321.9	180.3
-37.5°	3175.3	2628.7	2188.1	1827.7	1518.8	1218.6	927.2	657.4	441.8	279.0	156.8
-40°	2786.7	2317.5	1962.3	1659.0	1368.5	1082.3	810.9	578.6	385.2	233.7	132.0
-42.5°	2395.8	2064.9	1760.5	1482.8	1213.2	948.5	692.7	495.9	331.5	198.1	105.9
-45°	2116.6	1822.0	1563.5	1307.9	1053.3	809.4	597.4	413.0	275.4	166.7	86.0
-47.5°	1842.5	1604.1	1365.3	1126.9	896.4	674.6	498.4	348.0	217.4	134.1	76.0
-50°	1604.1	1384.5	1164.8	949.0	734.3	562.6	403.1	280.5	179.3	100.3	65.6
-52.5°	1365.3	1164.8	966.6	769.1	601.4	447.1	326.4	213.6	139.9	81.3	54.9
-55°	1126.9	949.0	769.1	614.4	472.8	354.2	247.5	168.4	99.2	68.6	44.5
-57.5°	896.4	734.3	601.4	472.8	363.4	265.9	185.7	122.1	78.6	55.6	39.4
-60°	674.6	562.6	447.1	354.2	265.9	191.5	133.5	84.6	63.6	43.8	34.1
-62.5°	498.4	403.1	326.4	247.5	185.7	133.5	86.6	67.6	48.2	37.7	28.8
-65°	348.0	280.5	213.6	168.4	122.1	84.6	67.6	50.2	39.4	31.4	24.2
-67.5°	217.4	179.3	139.9	99.2	78.6	63.6	48.2	39.4	32.3	25.1	21.8
-70°	134.1	100.3	81.3	68.6	55.6	43.8	37.7	31.4	25.1	22.2	19.4
-72.5°	76.0	65.6	54.9	44.5	39.4	34.1	28.8	24.2	21.8	19.4	16.9
-75°	46.3	41.6	37.5	33.2	28.9	24.7	22.7	20.7	18.7	16.6	15.9
-77.5°	32.2	28.9	25.5	23.6	22.1	20.5	18.8	17.2	16.1	15.7	15.3
-80°	22.3	21.1	20.0	18.8	17.5	16.3	16.0	15.7	15.4	15.1	14.8
-82.5°	16.5	16.2	16.0	15.8	15.6	15.3	15.1	14.9	14.7	14.4	13.0
-85°	15.1	14.9	14.8	14.7	14.5	14.4	13.3	12.2	11.0	9.8	8.7
-87.5°	9.7	9.3	8.8	8.3	7.7	7.2	6.6	6.1	5.5	4.9	4.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	3.7	3.1	2.5	1.9	1.3	0.6	0.0
85°	7.4	6.2	5.0	3.8	2.5	1.3	0.0
82.5°	11.2	9.3	7.5	5.6	3.8	1.9	0.0
80°	14.5	12.4	10.0	7.5	5.0	2.5	0.0
77.5°	14.9	14.5	12.4	9.3	6.2	3.1	0.0
75°	15.4	14.9	14.5	11.2	7.4	3.7	0.0
72.5°	15.9	15.3	14.8	13.0	8.7	4.3	0.0
70°	16.6	15.7	15.1	14.4	9.8	4.9	0.0
67.5°	18.7	16.1	15.4	14.7	11.0	5.5	0.0
65°	20.7	17.2	15.7	14.9	12.2	6.1	0.0
62.5°	22.7	18.8	16.0	15.1	13.3	6.6	0.0
60°	24.7	20.5	16.3	15.3	14.4	7.2	0.0
57.5°	28.9	22.1	17.5	15.6	14.5	7.7	0.0
55°	33.2	23.6	18.8	15.8	14.7	8.3	0.0
52.5°	37.5	25.5	20.0	16.0	14.8	8.8	0.0
50°	41.6	28.9	21.1	16.2	14.9	9.3	0.0
47.5°	46.3	32.2	22.3	16.5	15.1	9.7	0.0
45°	54.8	35.4	23.4	17.3	15.2	10.2	0.0
42.5°	63.0	38.4	24.4	18.1	15.3	10.6	0.0
40°	70.8	41.3	26.1	18.8	15.4	11.0	0.0
37.5°	78.3	44.1	28.3	19.5	15.5	11.4	0.0
35°	85.3	48.8	30.3	20.2	15.6	11.8	0.0
32.5°	95.6	54.3	32.3	20.8	15.7	12.1	0.0
30°	113.2	59.5	34.1	21.4	15.8	12.5	0.0
27.5°	129.6	64.2	35.8	22.0	15.9	12.8	0.0
25°	144.7	68.6	37.4	22.5	15.9	13.1	0.0
22.5°	158.5	72.6	38.8	22.9	16.0	13.3	0.0
20°	170.9	76.2	40.1	23.3	16.1	13.5	0.0
17.5°	181.9	79.4	41.2	23.7	16.1	13.7	0.0
15°	191.5	82.2	42.2	24.0	16.2	13.9	0.0
12.5°	199.6	84.6	43.1	24.3	16.2	14.1	0.0
10°	206.3	86.5	43.8	24.5	16.2	14.2	0.0
7.5°	211.6	88.0	44.3	24.7	16.3	14.3	0.0
5°	215.3	89.1	44.7	24.8	16.3	14.3	0.0
2.5°	217.6	89.8	44.9	24.9	16.3	14.4	0.0
0°	218.3	90.0	45.0	24.9	16.3	14.4	0.0
-2.5°	217.6	89.8	44.9	24.9	16.3	14.4	0.0
-5°	215.3	89.1	44.7	24.8	16.3	14.3	0.0
-7.5°	211.6	88.0	44.3	24.7	16.3	14.3	0.0
-10°	206.3	86.5	43.8	24.5	16.2	14.2	0.0
-12.5°	199.6	84.6	43.1	24.3	16.2	14.1	0.0
-15°	191.5	82.2	42.2	24.0	16.2	13.9	0.0
-17.5°	181.9	79.4	41.2	23.7	16.1	13.7	0.0
-20°	170.9	76.2	40.1	23.3	16.1	13.5	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	158.5	72.6	38.8	22.9	16.0	13.3	0.0
-25°	144.7	68.6	37.4	22.5	15.9	13.1	0.0
-27.5°	129.6	64.2	35.8	22.0	15.9	12.8	0.0
-30°	113.2	59.5	34.1	21.4	15.8	12.5	0.0
-32.5°	95.6	54.3	32.3	20.8	15.7	12.1	0.0
-35°	85.3	48.8	30.3	20.2	15.6	11.8	0.0
-37.5°	78.3	44.1	28.3	19.5	15.5	11.4	0.0
-40°	70.8	41.3	26.1	18.8	15.4	11.0	0.0
-42.5°	63.0	38.4	24.4	18.1	15.3	10.6	0.0
-45°	54.8	35.4	23.4	17.3	15.2	10.2	0.0
-47.5°	46.3	32.2	22.3	16.5	15.1	9.7	0.0
-50°	41.6	28.9	21.1	16.2	14.9	9.3	0.0
-52.5°	37.5	25.5	20.0	16.0	14.8	8.8	0.0
-55°	33.2	23.6	18.8	15.8	14.7	8.3	0.0
-57.5°	28.9	22.1	17.5	15.6	14.5	7.7	0.0
-60°	24.7	20.5	16.3	15.3	14.4	7.2	0.0
-62.5°	22.7	18.8	16.0	15.1	13.3	6.6	0.0
-65°	20.7	17.2	15.7	14.9	12.2	6.1	0.0
-67.5°	18.7	16.1	15.4	14.7	11.0	5.5	0.0
-70°	16.6	15.7	15.1	14.4	9.8	4.9	0.0
-72.5°	15.9	15.3	14.8	13.0	8.7	4.3	0.0
-75°	15.4	14.9	14.5	11.2	7.4	3.7	0.0
-77.5°	14.9	14.5	12.4	9.3	6.2	3.1	0.0
-80°	14.5	12.4	10.0	7.5	5.0	2.5	0.0
-82.5°	11.2	9.3	7.5	5.6	3.8	1.9	0.0
-85°	7.4	6.2	5.0	3.8	2.5	1.3	0.0
-87.5°	3.7	3.1	2.5	1.9	1.3	0.6	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)