

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: P1212208 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-57-80-5S-HEG**

Issue Date: 11/14/2025

Test Information

Test Method: LM-79-08
Report Number: P1212208 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/14/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: EPHESUS
Catalog Number: EPH-LS12-1000R-57-80-5S-HEG
Description: EPHESUS LS12 LUMINAIRE
(12) 5700K, 80 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

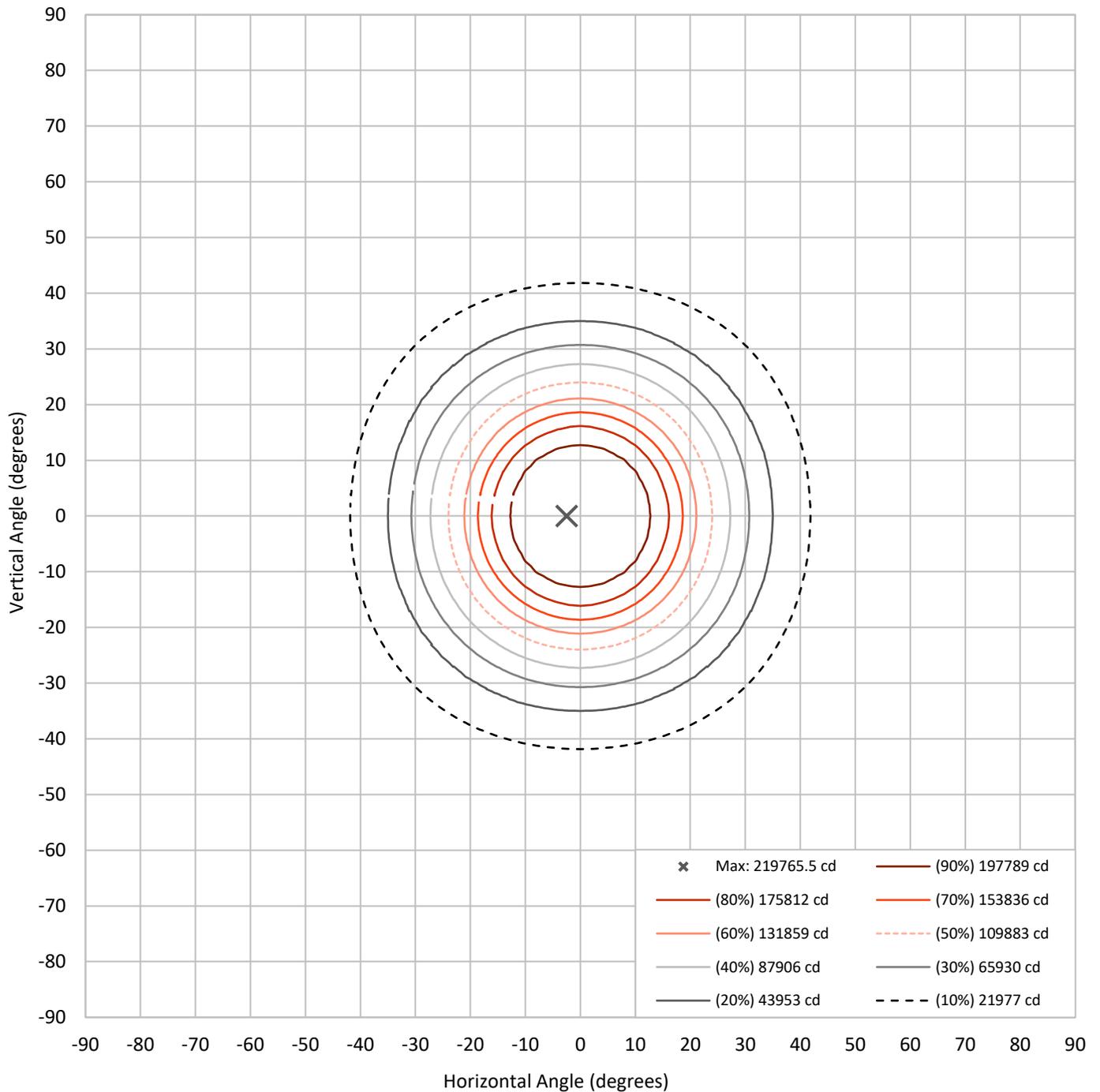
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	160750 lumens	Max Intensity:	219765.5 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	154.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	48°H x 47.7°V	Field Angle (10%):	83.7°H x 83.6°V
Beam Lumens:	91144.2 lumens	Field Lumens:	149521.7 lumens
Beam Efficiency:	56.7%	Field Efficiency:	93.0%
Input Watts (W):	1041		
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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CATALOG NUMBER: EPH-LS12-1000R-57-80-5S-HEG

Iso-Candela Plot





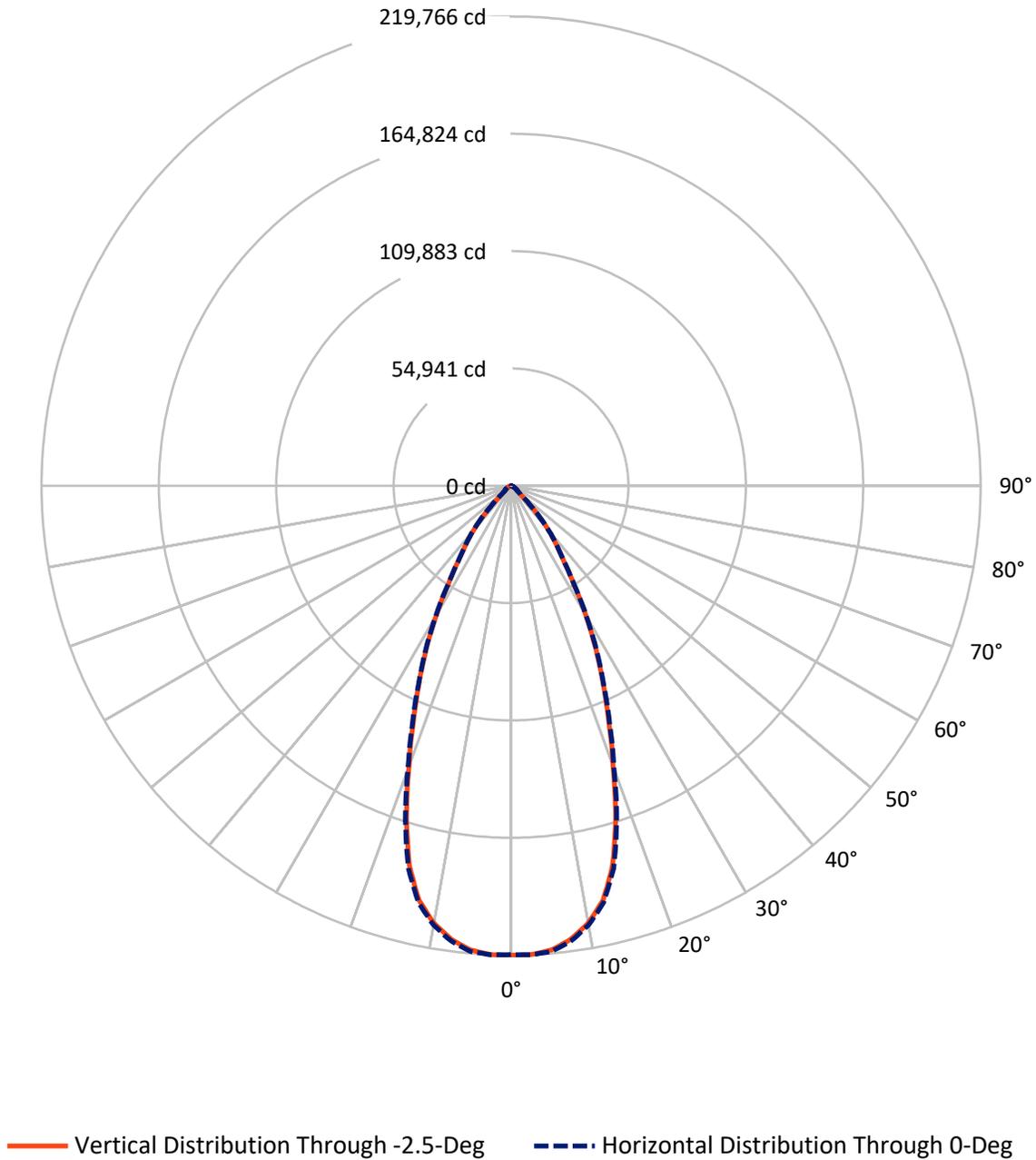
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Lumen Table

90															90				
80	0.2	1.1		4.5		11.1		14.5		11.1		4.5		1.1	0.2				
70																			
60	0.5	0.7	2.8	7.9	16.5	26.8	36.1	41.3	41.3	36.1	26.8	16.5	7.9	2.8	0.7	0.5			
50		2.1	9.4	25.6	48.5	71.2	88.0	97.3	97.3	88.0	71.2	48.5	25.6	9.4	2.1				
40	1.5	4.9	21.0	50.5	83.0	143.5	278.3	392.1	392.1	278.3	143.5	83.0	50.5	21.0	4.9	1.5			
30		8.8	34.4	71.8	192.8	585.4	1027.1	1331.2	1331.2	1027.1	585.4	192.8	71.8	34.4	8.8				
20	3.2	13.0	45.6	113.3	532.2	1272.2	2266.3	3013.8	3013.8	2266.3	1272.2	532.2	113.3	45.6	13.0	3.2			
10		16.4	52.8	208.3	877.0	2132.5	3878.2	5261.5	5261.5	3878.2	2132.5	877.0	208.3	52.8	16.4				
0	4.0	18.2	56.6	285.3	1103.9	2753.1	5108.4	6448.9	6448.9	5108.4	2753.1	1103.9	285.3	56.6	18.2	4.0			
-10		18.2	56.6	285.3	1103.9	2753.1	5108.4	6448.9	6448.9	5108.4	2753.1	1103.9	285.3	56.6	18.2				
-20	3.2	16.4	52.8	208.3	877.0	2132.5	3878.2	5261.5	5261.5	3878.2	2132.5	877.0	208.3	52.8	16.4	3.2			
-30		13.0	45.6	113.3	532.2	1272.2	2266.3	3013.8	3013.8	2266.3	1272.2	532.2	113.3	45.6	13.0				
-40	1.5	8.8	34.4	71.8	192.8	585.4	1027.1	1331.2	1331.2	1027.1	585.4	192.8	71.8	34.4	8.8	1.5			
-50		4.9	21.0	50.5	83.0	143.5	278.3	392.1	392.1	278.3	143.5	83.0	50.5	21.0	4.9				
-60	0.5	2.1	9.4	25.6	48.5	71.2	88.0	97.3	97.3	88.0	71.2	48.5	25.6	9.4	2.1	0.5			
-70		0.7	2.8	7.9	16.5	26.8	36.1	41.3	41.3	36.1	26.8	16.5	7.9	2.8	0.7				
-80															-80				
-90	0.2	1.1		4.5		11.1		14.5		11.1		4.5		1.1	0.2				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
	Horizontal Angle (degrees)																		

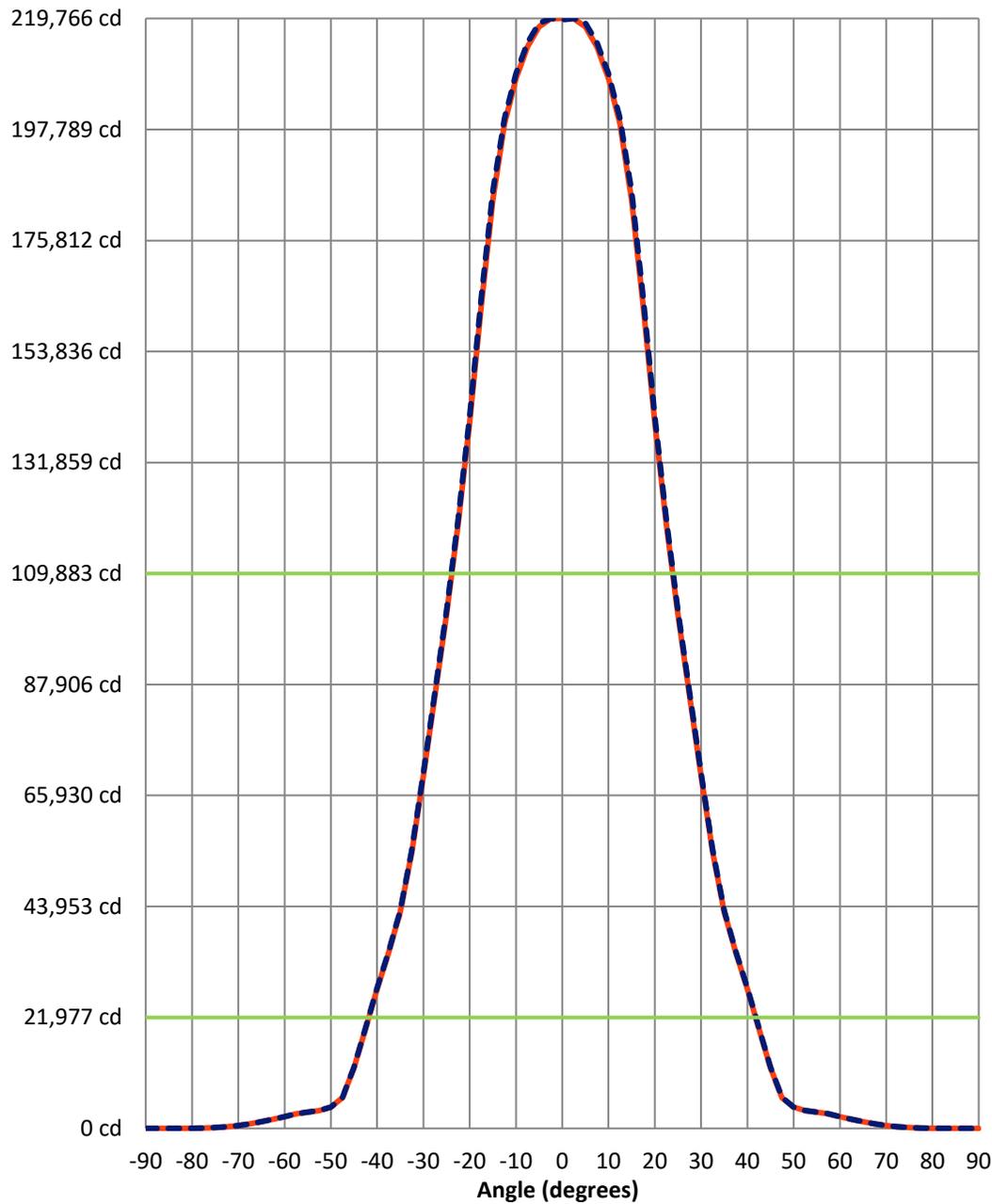
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 48°
 V Angle: 47.7°
 Lumens: 91144.2
 Efficiency: 56.7%

Field:
 H Angle: 83.7°
 V Angle: 83.6°
 Lumens: 149521.7
 Efficiency: 93.0%

Spill:
 Lumens: 11228.3
 Efficiency: 7.0%

- Vertical Distribution through -2.5-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	0.5	0.9	1.4	1.8	2.3	2.7	3.2	3.6	4.0	4.4
85°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2	8.0	8.9
82.5°	0.0	1.4	2.7	4.1	5.5	6.8	8.1	9.4	10.5	10.8	11.0
80°	0.0	1.8	3.6	5.5	7.3	9.0	10.6	10.9	11.2	11.5	11.8
77.5°	0.0	2.3	4.5	6.8	9.0	10.6	11.0	11.4	11.8	12.2	13.2
75°	0.0	2.7	5.4	8.1	10.6	11.0	11.5	12.0	12.6	14.5	16.3
72.5°	0.0	3.2	6.3	9.4	10.9	11.4	12.0	13.0	15.2	17.4	19.5
70°	0.0	3.6	7.2	10.5	11.2	11.8	12.6	15.2	17.7	20.3	26.9
67.5°	0.0	4.0	8.0	10.8	11.5	12.2	14.5	17.4	20.3	27.9	35.4
65°	0.0	4.4	8.9	11.0	11.8	13.2	16.3	19.5	26.9	35.4	46.2
62.5°	0.0	4.8	9.7	11.2	12.1	14.7	18.1	24.2	33.5	44.3	62.8
60°	0.0	5.2	10.5	11.4	12.4	16.1	19.9	29.8	39.9	58.9	79.0
57.5°	0.0	5.6	10.6	11.7	13.5	17.6	24.3	35.3	51.3	73.3	108.1
55°	0.0	6.0	10.8	11.9	14.6	19.0	28.9	40.6	63.8	91.1	142.8
52.5°	0.0	6.4	10.9	12.1	15.7	20.7	33.3	50.6	75.9	121.4	176.5
50°	0.0	6.7	11.0	12.3	16.7	24.3	37.6	60.9	91.9	150.9	227.6
47.5°	0.0	7.1	11.2	12.6	17.8	27.8	42.4	70.8	117.1	179.4	279.2
45°	0.0	7.4	11.3	13.3	18.7	31.1	50.6	80.4	141.5	223.7	329.0
42.5°	0.0	7.7	11.4	14.0	19.7	34.3	58.4	96.0	164.9	266.6	397.5
40°	0.0	8.0	11.5	14.7	21.3	37.4	65.9	115.5	191.8	307.7	466.4
37.5°	0.0	8.3	11.6	15.3	23.6	40.2	73.0	134.1	226.4	352.3	532.1
35°	0.0	8.6	11.7	15.9	25.8	44.9	79.7	151.6	259.3	408.1	605.9
32.5°	0.0	8.9	11.8	16.5	27.9	50.1	88.4	168.2	290.2	460.8	692.7
30°	0.0	9.1	11.9	17.0	29.8	55.0	101.5	185.9	319.1	510.0	774.2
27.5°	0.0	9.3	12.0	17.5	31.6	59.6	113.8	209.3	351.1	555.9	850.0
25°	0.0	9.5	12.0	17.9	33.2	63.8	125.1	230.9	388.3	611.3	920.7
22.5°	0.0	9.7	12.1	18.3	34.7	67.6	135.3	250.5	422.4	668.3	1000.4
20°	0.0	9.9	12.2	18.7	36.1	71.0	144.6	268.2	453.0	719.7	1072.3
17.5°	0.0	10.0	12.2	19.0	37.3	74.1	152.8	283.9	480.3	765.4	1136.3
15°	0.0	10.1	12.3	19.3	38.3	76.8	160.0	297.7	504.1	805.3	1192.2
12.5°	0.0	10.3	12.3	19.5	39.2	79.0	166.1	309.3	524.3	839.3	1239.7
10°	0.0	10.3	12.3	19.7	39.9	80.9	171.1	318.9	540.9	867.2	1278.8
7.5°	0.0	10.4	12.4	19.9	40.5	82.3	175.0	326.4	553.9	889.0	1309.4
5°	0.0	10.5	12.4	20.0	40.9	83.4	177.8	331.7	563.2	904.6	1331.3
2.5°	0.0	10.5	12.4	20.1	41.1	84.0	179.4	334.9	568.7	914.0	1344.4
0°	0.0	10.5	12.4	20.1	41.2	84.2	180.0	336.0	570.6	917.1	1348.8
-2.5°	0.0	10.5	12.4	20.1	41.1	84.0	179.4	334.9	568.7	914.0	1344.4
-5°	0.0	10.5	12.4	20.0	40.9	83.4	177.8	331.7	563.2	904.6	1331.3
-7.5°	0.0	10.4	12.4	19.9	40.5	82.3	175.0	326.4	553.9	889.0	1309.4
-10°	0.0	10.3	12.3	19.7	39.9	80.9	171.1	318.9	540.9	867.2	1278.8
-12.5°	0.0	10.3	12.3	19.5	39.2	79.0	166.1	309.3	524.3	839.3	1239.7
-15°	0.0	10.1	12.3	19.3	38.3	76.8	160.0	297.7	504.1	805.3	1192.2
-17.5°	0.0	10.0	12.2	19.0	37.3	74.1	152.8	283.9	480.3	765.4	1136.3
-20°	0.0	9.9	12.2	18.7	36.1	71.0	144.6	268.2	453.0	719.7	1072.3



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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	9.7	12.1	18.3	34.7	67.6	135.3	250.5	422.4	668.3	1000.4
-25°	0.0	9.5	12.0	17.9	33.2	63.8	125.1	230.9	388.3	611.3	920.7
-27.5°	0.0	9.3	12.0	17.5	31.6	59.6	113.8	209.3	351.1	555.9	850.0
-30°	0.0	9.1	11.9	17.0	29.8	55.0	101.5	185.9	319.1	510.0	774.2
-32.5°	0.0	8.9	11.8	16.5	27.9	50.1	88.4	168.2	290.2	460.8	692.7
-35°	0.0	8.6	11.7	15.9	25.8	44.9	79.7	151.6	259.3	408.1	605.9
-37.5°	0.0	8.3	11.6	15.3	23.6	40.2	73.0	134.1	226.4	352.3	532.1
-40°	0.0	8.0	11.5	14.7	21.3	37.4	65.9	115.5	191.8	307.7	466.4
-42.5°	0.0	7.7	11.4	14.0	19.7	34.3	58.4	96.0	164.9	266.6	397.5
-45°	0.0	7.4	11.3	13.3	18.7	31.1	50.6	80.4	141.5	223.7	329.0
-47.5°	0.0	7.1	11.2	12.6	17.8	27.8	42.4	70.8	117.1	179.4	279.2
-50°	0.0	6.7	11.0	12.3	16.7	24.3	37.6	60.9	91.9	150.9	227.6
-52.5°	0.0	6.4	10.9	12.1	15.7	20.7	33.3	50.6	75.9	121.4	176.5
-55°	0.0	6.0	10.8	11.9	14.6	19.0	28.9	40.6	63.8	91.1	142.8
-57.5°	0.0	5.6	10.6	11.7	13.5	17.6	24.3	35.3	51.3	73.3	108.1
-60°	0.0	5.2	10.5	11.4	12.4	16.1	19.9	29.8	39.9	58.9	79.0
-62.5°	0.0	4.8	9.7	11.2	12.1	14.7	18.1	24.2	33.5	44.3	62.8
-65°	0.0	4.4	8.9	11.0	11.8	13.2	16.3	19.5	26.9	35.4	46.2
-67.5°	0.0	4.0	8.0	10.8	11.5	12.2	14.5	17.4	20.3	27.9	35.4
-70°	0.0	3.6	7.2	10.5	11.2	11.8	12.6	15.2	17.7	20.3	26.9
-72.5°	0.0	3.2	6.3	9.4	10.9	11.4	12.0	13.0	15.2	17.4	19.5
-75°	0.0	2.7	5.4	8.1	10.6	11.0	11.5	12.0	12.6	14.5	16.3
-77.5°	0.0	2.3	4.5	6.8	9.0	10.6	11.0	11.4	11.8	12.2	13.2
-80°	0.0	1.8	3.6	5.5	7.3	9.0	10.6	10.9	11.2	11.5	11.8
-82.5°	0.0	1.4	2.7	4.1	5.5	6.8	8.1	9.4	10.5	10.8	11.0
-85°	0.0	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2	8.0	8.9
-87.5°	0.0	0.5	0.9	1.4	1.8	2.3	2.7	3.2	3.6	4.0	4.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	4.8	5.2	5.6	6.0	6.4	6.7	7.1	7.4	7.7	8.0	8.3
85°	9.7	10.5	10.6	10.8	10.9	11.0	11.2	11.3	11.4	11.5	11.6
82.5°	11.2	11.4	11.7	11.9	12.1	12.3	12.6	13.3	14.0	14.7	15.3
80°	12.1	12.4	13.5	14.6	15.7	16.7	17.8	18.7	19.7	21.3	23.6
77.5°	14.7	16.1	17.6	19.0	20.7	24.3	27.8	31.1	34.3	37.4	40.2
75°	18.1	19.9	24.3	28.9	33.3	37.6	42.4	50.6	58.4	65.9	73.0
72.5°	24.2	29.8	35.3	40.6	50.6	60.9	70.8	80.4	96.0	115.5	134.1
70°	33.5	39.9	51.3	63.8	75.9	91.9	117.1	141.5	164.9	191.8	226.4
67.5°	44.3	58.9	73.3	91.1	121.4	150.9	179.4	223.7	266.6	307.7	352.3
65°	62.8	79.0	108.1	142.8	176.5	227.6	279.2	329.0	397.5	466.4	532.1
62.5°	80.9	116.7	155.7	202.3	262.7	321.4	399.5	482.1	561.5	669.7	777.0
60°	116.7	160.0	216.4	283.9	356.7	453.0	546.4	668.3	796.8	920.7	1067.4
57.5°	155.7	216.4	291.0	378.2	485.4	598.9	748.6	893.4	1061.6	1228.8	1392.7
55°	202.3	283.9	378.2	496.2	631.1	797.2	968.8	1163.6	1352.0	1551.0	1741.7
52.5°	262.7	356.7	485.4	631.1	813.4	1009.6	1225.3	1443.2	1665.7	1884.6	2106.7
50°	321.4	453.0	598.9	797.2	1009.6	1246.0	1489.0	1735.2	1985.5	2233.9	2489.2
47.5°	399.5	546.4	748.6	968.8	1225.3	1489.0	1758.4	2036.4	2311.0	2605.8	2892.5
45°	482.1	668.3	893.4	1163.6	1443.2	1735.2	2036.4	2336.8	2664.5	2951.9	3124.5
42.5°	561.5	796.8	1061.6	1352.0	1665.7	1985.5	2311.0	2664.5	2968.8	3158.9	3337.5
40°	669.7	920.7	1228.8	1551.0	1884.6	2233.9	2605.8	2951.9	3158.9	3354.2	3539.6
37.5°	777.0	1067.4	1392.7	1741.7	2106.7	2489.2	2892.5	3124.5	3337.5	3539.6	3965.2
35°	879.0	1206.9	1560.1	1931.3	2318.7	2745.3	3056.5	3287.8	3505.6	3926.5	4644.3
32.5°	989.5	1338.7	1718.5	2117.3	2542.5	2955.8	3204.1	3438.3	3811.0	4427.1	5758.0
30°	1102.0	1474.0	1871.0	2292.5	2755.6	3085.7	3338.9	3620.9	4151.5	5425.6	8302.5
27.5°	1206.9	1601.0	2021.3	2470.9	2936.8	3207.5	3463.9	3920.5	4879.4	6870.9	11499.9
25°	1303.7	1718.5	2160.5	2641.4	3041.4	3316.9	3619.3	4200.0	5704.9	9678.0	15189.4
22.5°	1396.7	1826.2	2288.0	2797.8	3137.5	3416.1	3858.6	4839.7	7184.5	12318.5	18801.9
20°	1484.7	1931.3	2411.6	2928.0	3224.7	3506.3	4076.4	5486.7	9398.7	15400.8	22155.0
17.5°	1563.1	2024.9	2527.2	2999.5	3299.6	3634.3	4327.2	6067.8	11391.4	18181.3	25204.0
15°	1631.5	2106.7	2628.3	3062.1	3364.7	3792.2	4798.8	7535.0	13437.5	20651.0	27901.2
12.5°	1689.8	2176.5	2714.6	3115.5	3420.3	3927.4	5202.9	8927.1	15389.1	22801.7	30042.6
10°	1737.8	2233.9	2785.7	3159.5	3466.2	4039.0	5537.0	10079.7	17007.7	24588.7	31825.9
7.5°	1775.3	2278.8	2841.2	3194.0	3502.2	4126.5	5799.2	10985.1	18280.6	25996.4	33233.2
5°	1802.2	2311.0	2881.1	3218.7	3528.0	4189.4	5987.7	11636.6	19197.6	27011.6	34249.8
2.5°	1818.3	2330.3	2905.1	3233.6	3543.5	4227.3	6101.3	12029.4	19750.9	27624.8	34864.3
0°	1823.7	2336.8	2913.1	3238.6	3548.7	4239.9	6139.2	12160.7	19935.9	27829.9	35070.0
-2.5°	1818.3	2330.3	2905.1	3233.6	3543.5	4227.3	6101.3	12029.4	19750.9	27624.8	34864.3
-5°	1802.2	2311.0	2881.1	3218.7	3528.0	4189.4	5987.7	11636.6	19197.6	27011.6	34249.8
-7.5°	1775.3	2278.8	2841.2	3194.0	3502.2	4126.5	5799.2	10985.1	18280.6	25996.4	33233.2
-10°	1737.8	2233.9	2785.7	3159.5	3466.2	4039.0	5537.0	10079.7	17007.7	24588.7	31825.9
-12.5°	1689.8	2176.5	2714.6	3115.5	3420.3	3927.4	5202.9	8927.1	15389.1	22801.7	30042.6
-15°	1631.5	2106.7	2628.3	3062.1	3364.7	3792.2	4798.8	7535.0	13437.5	20651.0	27901.2
-17.5°	1563.1	2024.9	2527.2	2999.5	3299.6	3634.3	4327.2	6067.8	11391.4	18181.3	25204.0
-20°	1484.7	1931.3	2411.6	2928.0	3224.7	3506.3	4076.4	5486.7	9398.7	15400.8	22155.0



REPORT NUMBER: P1212208 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1396.7	1826.2	2288.0	2797.8	3137.5	3416.1	3858.6	4839.7	7184.5	12318.5	18801.9
-25°	1303.7	1718.5	2160.5	2641.4	3041.4	3316.9	3619.3	4200.0	5704.9	9678.0	15189.4
-27.5°	1206.9	1601.0	2021.3	2470.9	2936.8	3207.5	3463.9	3920.5	4879.4	6870.9	11499.9
-30°	1102.0	1474.0	1871.0	2292.5	2755.6	3085.7	3338.9	3620.9	4151.5	5425.6	8302.5
-32.5°	989.5	1338.7	1718.5	2117.3	2542.5	2955.8	3204.1	3438.3	3811.0	4427.1	5758.0
-35°	879.0	1206.9	1560.1	1931.3	2318.7	2745.3	3056.5	3287.8	3505.6	3926.5	4644.3
-37.5°	777.0	1067.4	1392.7	1741.7	2106.7	2489.2	2892.5	3124.5	3337.5	3539.6	3965.2
-40°	669.7	920.7	1228.8	1551.0	1884.6	2233.9	2605.8	2951.9	3158.9	3354.2	3539.6
-42.5°	561.5	796.8	1061.6	1352.0	1665.7	1985.5	2311.0	2664.5	2968.8	3158.9	3337.5
-45°	482.1	668.3	893.4	1163.6	1443.2	1735.2	2036.4	2336.8	2664.5	2951.9	3124.5
-47.5°	399.5	546.4	748.6	968.8	1225.3	1489.0	1758.4	2036.4	2311.0	2605.8	2892.5
-50°	321.4	453.0	598.9	797.2	1009.6	1246.0	1489.0	1735.2	1985.5	2233.9	2489.2
-52.5°	262.7	356.7	485.4	631.1	813.4	1009.6	1225.3	1443.2	1665.7	1884.6	2106.7
-55°	202.3	283.9	378.2	496.2	631.1	797.2	968.8	1163.6	1352.0	1551.0	1741.7
-57.5°	155.7	216.4	291.0	378.2	485.4	598.9	748.6	893.4	1061.6	1228.8	1392.7
-60°	116.7	160.0	216.4	283.9	356.7	453.0	546.4	668.3	796.8	920.7	1067.4
-62.5°	80.9	116.7	155.7	202.3	262.7	321.4	399.5	482.1	561.5	669.7	777.0
-65°	62.8	79.0	108.1	142.8	176.5	227.6	279.2	329.0	397.5	466.4	532.1
-67.5°	44.3	58.9	73.3	91.1	121.4	150.9	179.4	223.7	266.6	307.7	352.3
-70°	33.5	39.9	51.3	63.8	75.9	91.9	117.1	141.5	164.9	191.8	226.4
-72.5°	24.2	29.8	35.3	40.6	50.6	60.9	70.8	80.4	96.0	115.5	134.1
-75°	18.1	19.9	24.3	28.9	33.3	37.6	42.4	50.6	58.4	65.9	73.0
-77.5°	14.7	16.1	17.6	19.0	20.7	24.3	27.8	31.1	34.3	37.4	40.2
-80°	12.1	12.4	13.5	14.6	15.7	16.7	17.8	18.7	19.7	21.3	23.6
-82.5°	11.2	11.4	11.7	11.9	12.1	12.3	12.6	13.3	14.0	14.7	15.3
-85°	9.7	10.5	10.6	10.8	10.9	11.0	11.2	11.3	11.4	11.5	11.6
-87.5°	4.8	5.2	5.6	6.0	6.4	6.7	7.1	7.4	7.7	8.0	8.3
-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: P1212208 (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°	8.6	8.9	9.1	9.3	9.5	9.7	9.9	10.0	10.1	10.3	10.3
85°	11.7	11.8	11.9	12.0	12.0	12.1	12.2	12.2	12.3	12.3	12.3
82.5°	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.0	19.3	19.5	19.7
80°	25.8	27.9	29.8	31.6	33.2	34.7	36.1	37.3	38.3	39.2	39.9
77.5°	44.9	50.1	55.0	59.6	63.8	67.6	71.0	74.1	76.8	79.0	80.9
75°	79.7	88.4	101.5	113.8	125.1	135.3	144.6	152.8	160.0	166.1	171.1
72.5°	151.6	168.2	185.9	209.3	230.9	250.5	268.2	283.9	297.7	309.3	318.9
70°	259.3	290.2	319.1	351.1	388.3	422.4	453.0	480.3	504.1	524.3	540.9
67.5°	408.1	460.8	510.0	555.9	611.3	668.3	719.7	765.4	805.3	839.3	867.2
65°	605.9	692.7	774.2	850.0	920.7	1000.4	1072.3	1136.3	1192.2	1239.7	1278.8
62.5°	879.0	989.5	1102.0	1206.9	1303.7	1396.7	1484.7	1563.1	1631.5	1689.8	1737.8
60°	1206.9	1338.7	1474.0	1601.0	1718.5	1826.2	1931.3	2024.9	2106.7	2176.5	2233.9
57.5°	1560.1	1718.5	1871.0	2021.3	2160.5	2288.0	2411.6	2527.2	2628.3	2714.6	2785.7
55°	1931.3	2117.3	2292.5	2470.9	2641.4	2797.8	2928.0	2999.5	3062.1	3115.5	3159.5
52.5°	2318.7	2542.5	2755.6	2936.8	3041.4	3137.5	3224.7	3299.6	3364.7	3420.3	3466.2
50°	2745.3	2955.8	3085.7	3207.5	3316.9	3416.1	3506.3	3634.3	3792.2	3927.4	4039.0
47.5°	3056.5	3204.1	3338.9	3463.9	3619.3	3858.6	4076.4	4327.2	4798.8	5202.9	5537.0
45°	3287.8	3438.3	3620.9	3920.5	4200.0	4839.7	5486.7	6067.8	7535.0	8927.1	10079.7
42.5°	3505.6	3811.0	4151.5	4879.4	5704.9	7184.5	9398.7	11391.4	13437.5	15389.1	17007.7
40°	3926.5	4427.1	5425.6	6870.9	9678.0	12318.5	15400.8	18181.3	20651.0	22801.7	24588.7
37.5°	4644.3	5758.0	8302.5	11499.9	15189.4	18801.9	22155.0	25204.0	27901.2	30042.6	31825.9
35°	5869.6	9026.4	12741.2	17142.6	21314.5	25249.2	28790.1	31809.6	34495.3	37026.2	39195.5
32.5°	9026.4	13222.9	18131.4	22859.3	27360.0	31266.5	34845.4	38460.3	41710.9	45206.5	48722.7
30°	12741.2	18131.4	23378.9	28380.7	32782.4	37139.9	41437.6	46444.7	51682.6	56544.3	61419.1
27.5°	17142.6	22859.3	28380.7	33292.9	38319.5	43319.2	50181.8	56845.4	64056.0	70380.8	75996.0
25°	21314.5	27360.0	32782.4	38319.5	44235.6	52086.5	60606.2	69249.8	77427.1	84695.5	90900.3
22.5°	25249.2	31266.5	37139.9	43319.2	52086.5	61877.7	71983.9	81798.1	90785.8	98801.5	106029.9
20°	28790.1	34845.4	41437.6	50181.8	60606.2	71983.9	83280.6	93924.3	103882.6	113724.3	122456.2
17.5°	31809.6	38460.3	46444.7	56845.4	69249.8	81798.1	93924.3	105763.7	117713.4	129652.0	140428.3
15°	34495.3	41710.9	51682.6	64056.0	77427.1	90785.8	103882.6	117713.4	132120.2	146370.8	160125.9
12.5°	37026.2	45206.5	56544.3	70380.8	84695.5	98801.5	113724.3	129652.0	146370.8	163466.8	177433.7
10°	39195.5	48722.7	61419.1	75996.0	90900.3	106029.9	122456.2	140428.3	160125.9	177433.7	191545.9
7.5°	40911.4	51511.7	65298.8	80485.1	95894.5	112233.7	130353.5	150491.3	170925.9	188560.3	199986.6
5°	42153.0	53534.3	68120.2	83760.9	99555.2	116807.3	136220.8	158114.3	178818.4	195261.1	205109.7
2.5°	42904.6	54760.6	69834.0	85755.6	101791.5	119613.2	139841.2	162856.7	183787.7	198818.0	207888.1
0°	43156.3	55171.5	70408.9	86425.6	102543.8	120559.3	141065.8	164468.1	185487.7	199886.1	208835.4
-2.5°	42904.6	54760.6	69834.0	85755.6	101791.5	119613.2	139841.2	162856.7	183787.7	198818.0	207888.1
-5°	42153.0	53534.3	68120.2	83760.9	99555.2	116807.3	136220.8	158114.3	178818.4	195261.1	205109.7
-7.5°	40911.4	51511.7	65298.8	80485.1	95894.5	112233.7	130353.5	150491.3	170925.9	188560.3	199986.6
-10°	39195.5	48722.7	61419.1	75996.0	90900.3	106029.9	122456.2	140428.3	160125.9	177433.7	191545.9
-12.5°	37026.2	45206.5	56544.3	70380.8	84695.5	98801.5	113724.3	129652.0	146370.8	163466.8	177433.7
-15°	34495.3	41710.9	51682.6	64056.0	77427.1	90785.8	103882.6	117713.4	132120.2	146370.8	160125.9
-17.5°	31809.6	38460.3	46444.7	56845.4	69249.8	81798.1	93924.3	105763.7	117713.4	129652.0	140428.3
-20°	28790.1	34845.4	41437.6	50181.8	60606.2	71983.9	83280.6	93924.3	103882.6	113724.3	122456.2



REPORT NUMBER: P1212208 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	25249.2	31266.5	37139.9	43319.2	52086.5	61877.7	71983.9	81798.1	90785.8	98801.5	106029.9
-25°	21314.5	27360.0	32782.4	38319.5	44235.6	52086.5	60606.2	69249.8	77427.1	84695.5	90900.3
-27.5°	17142.6	22859.3	28380.7	33292.9	38319.5	43319.2	50181.8	56845.4	64056.0	70380.8	75996.0
-30°	12741.2	18131.4	23378.9	28380.7	32782.4	37139.9	41437.6	46444.7	51682.6	56544.3	61419.1
-32.5°	9026.4	13222.9	18131.4	22859.3	27360.0	31266.5	34845.4	38460.3	41710.9	45206.5	48722.7
-35°	5869.6	9026.4	12741.2	17142.6	21314.5	25249.2	28790.1	31809.6	34495.3	37026.2	39195.5
-37.5°	4644.3	5758.0	8302.5	11499.9	15189.4	18801.9	22155.0	25204.0	27901.2	30042.6	31825.9
-40°	3926.5	4427.1	5425.6	6870.9	9678.0	12318.5	15400.8	18181.3	20651.0	22801.7	24588.7
-42.5°	3505.6	3811.0	4151.5	4879.4	5704.9	7184.5	9398.7	11391.4	13437.5	15389.1	17007.7
-45°	3287.8	3438.3	3620.9	3920.5	4200.0	4839.7	5486.7	6067.8	7535.0	8927.1	10079.7
-47.5°	3056.5	3204.1	3338.9	3463.9	3619.3	3858.6	4076.4	4327.2	4798.8	5202.9	5537.0
-50°	2745.3	2955.8	3085.7	3207.5	3316.9	3416.1	3506.3	3634.3	3792.2	3927.4	4039.0
-52.5°	2318.7	2542.5	2755.6	2936.8	3041.4	3137.5	3224.7	3299.6	3364.7	3420.3	3466.2
-55°	1931.3	2117.3	2292.5	2470.9	2641.4	2797.8	2928.0	2999.5	3062.1	3115.5	3159.5
-57.5°	1560.1	1718.5	1871.0	2021.3	2160.5	2288.0	2411.6	2527.2	2628.3	2714.6	2785.7
-60°	1206.9	1338.7	1474.0	1601.0	1718.5	1826.2	1931.3	2024.9	2106.7	2176.5	2233.9
-62.5°	879.0	989.5	1102.0	1206.9	1303.7	1396.7	1484.7	1563.1	1631.5	1689.8	1737.8
-65°	605.9	692.7	774.2	850.0	920.7	1000.4	1072.3	1136.3	1192.2	1239.7	1278.8
-67.5°	408.1	460.8	510.0	555.9	611.3	668.3	719.7	765.4	805.3	839.3	867.2
-70°	259.3	290.2	319.1	351.1	388.3	422.4	453.0	480.3	504.1	524.3	540.9
-72.5°	151.6	168.2	185.9	209.3	230.9	250.5	268.2	283.9	297.7	309.3	318.9
-75°	79.7	88.4	101.5	113.8	125.1	135.3	144.6	152.8	160.0	166.1	171.1
-77.5°	44.9	50.1	55.0	59.6	63.8	67.6	71.0	74.1	76.8	79.0	80.9
-80°	25.8	27.9	29.8	31.6	33.2	34.7	36.1	37.3	38.3	39.2	39.9
-82.5°	15.9	16.5	17.0	17.5	17.9	18.3	18.7	19.0	19.3	19.5	19.7
-85°	11.7	11.8	11.9	12.0	12.0	12.1	12.2	12.2	12.3	12.3	12.3
-87.5°	8.6	8.9	9.1	9.3	9.5	9.7	9.9	10.0	10.1	10.3	10.3
-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: P1212208 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-5S-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°	10.4	10.5	10.5	10.5	10.5	10.5	10.4	10.3	10.3	10.1	10.0
85°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.3	12.3	12.3	12.2
82.5°	19.9	20.0	20.1	20.1	20.1	20.0	19.9	19.7	19.5	19.3	19.0
80°	40.5	40.9	41.1	41.2	41.1	40.9	40.5	39.9	39.2	38.3	37.3
77.5°	82.3	83.4	84.0	84.2	84.0	83.4	82.3	80.9	79.0	76.8	74.1
75°	175.0	177.8	179.4	180.0	179.4	177.8	175.0	171.1	166.1	160.0	152.8
72.5°	326.4	331.7	334.9	336.0	334.9	331.7	326.4	318.9	309.3	297.7	283.9
70°	553.9	563.2	568.7	570.6	568.7	563.2	553.9	540.9	524.3	504.1	480.3
67.5°	889.0	904.6	914.0	917.1	914.0	904.6	889.0	867.2	839.3	805.3	765.4
65°	1309.4	1331.3	1344.4	1348.8	1344.4	1331.3	1309.4	1278.8	1239.7	1192.2	1136.3
62.5°	1775.3	1802.2	1818.3	1823.7	1818.3	1802.2	1775.3	1737.8	1689.8	1631.5	1563.1
60°	2278.8	2311.0	2330.3	2336.8	2330.3	2311.0	2278.8	2233.9	2176.5	2106.7	2024.9
57.5°	2841.2	2881.1	2905.1	2913.1	2905.1	2881.1	2841.2	2785.7	2714.6	2628.3	2527.2
55°	3194.0	3218.7	3233.6	3238.6	3233.6	3218.7	3194.0	3159.5	3115.5	3062.1	2999.5
52.5°	3502.2	3528.0	3543.5	3548.7	3543.5	3528.0	3502.2	3466.2	3420.3	3364.7	3299.6
50°	4126.5	4189.4	4227.3	4239.9	4227.3	4189.4	4126.5	4039.0	3927.4	3792.2	3634.3
47.5°	5799.2	5987.7	6101.3	6139.2	6101.3	5987.7	5799.2	5537.0	5202.9	4798.8	4327.2
45°	10985.1	11636.6	12029.4	12160.7	12029.4	11636.6	10985.1	10079.7	8927.1	7535.0	6067.8
42.5°	18280.6	19197.6	19750.9	19935.9	19750.9	19197.6	18280.6	17007.7	15389.1	13437.5	11391.4
40°	25996.4	27011.6	27624.8	27829.9	27624.8	27011.6	25996.4	24588.7	22801.7	20651.0	18181.3
37.5°	33233.2	34249.8	34864.3	35070.0	34864.3	34249.8	33233.2	31825.9	30042.6	27901.2	25204.0
35°	40911.4	42153.0	42904.6	43156.3	42904.6	42153.0	40911.4	39195.5	37026.2	34495.3	31809.6
32.5°	51511.7	53534.3	54760.6	55171.5	54760.6	53534.3	51511.7	48722.7	45206.5	41710.9	38460.3
30°	65298.8	68120.2	69834.0	70408.9	69834.0	68120.2	65298.8	61419.1	56544.3	51682.6	46444.7
27.5°	80485.1	83760.9	85755.6	86425.6	85755.6	83760.9	80485.1	75996.0	70380.8	64056.0	56845.4
25°	95894.5	99555.2	101791.5	102543.8	101791.5	99555.2	95894.5	90900.3	84695.5	77427.1	69249.8
22.5°	112233.7	116807.3	119613.2	120559.3	119613.2	116807.3	112233.7	106029.9	98801.5	90785.8	81798.1
20°	130353.5	136220.8	139841.2	141065.8	139841.2	136220.8	130353.5	122456.2	113724.3	103882.6	93924.3
17.5°	150491.3	158114.3	162856.7	164468.1	162856.7	158114.3	150491.3	140428.3	129652.0	117713.4	105763.7
15°	170925.9	178818.4	183787.7	185487.7	183787.7	178818.4	170925.9	160125.9	146370.8	132120.2	117713.4
12.5°	188560.3	195261.1	198818.0	199886.1	198818.0	195261.1	188560.3	177433.7	163466.8	146370.8	129652.0
10°	199986.6	205109.7	207888.1	208835.4	207888.1	205109.7	199986.6	191545.9	177433.7	160125.9	140428.3
7.5°	206996.5	211633.2	214165.9	215006.3	214165.9	211633.2	206996.5	199986.6	188560.3	170925.9	150491.3
5°	211633.2	215909.1	218123.2	218841.2	218123.2	215909.1	211633.2	205109.7	195261.1	178818.4	158114.3
2.5°	214165.9	218123.2	219723.5	219765.5	219723.5	218123.2	214165.9	207888.1	198818.0	183787.7	162856.7
0°	215006.3	218841.2	219765.5	219498.9	219765.5	218841.2	215006.3	208835.4	199886.1	185487.7	164468.1
-2.5°	214165.9	218123.2	219723.5	219765.5	219723.5	218123.2	214165.9	207888.1	198818.0	183787.7	162856.7
-5°	211633.2	215909.1	218123.2	218841.2	218123.2	215909.1	211633.2	205109.7	195261.1	178818.4	158114.3
-7.5°	206996.5	211633.2	214165.9	215006.3	214165.9	211633.2	206996.5	199986.6	188560.3	170925.9	150491.3
-10°	199986.6	205109.7	207888.1	208835.4	207888.1	205109.7	199986.6	191545.9	177433.7	160125.9	140428.3
-12.5°	188560.3	195261.1	198818.0	199886.1	198818.0	195261.1	188560.3	177433.7	163466.8	146370.8	129652.0
-15°	170925.9	178818.4	183787.7	185487.7	183787.7	178818.4	170925.9	160125.9	146370.8	132120.2	117713.4
-17.5°	150491.3	158114.3	162856.7	164468.1	162856.7	158114.3	150491.3	140428.3	129652.0	117713.4	105763.7
-20°	130353.5	136220.8	139841.2	141065.8	139841.2	136220.8	130353.5	122456.2	113724.3	103882.6	93924.3



REPORT NUMBER: P1212208 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	112233.7	116807.3	119613.2	120559.3	119613.2	116807.3	112233.7	106029.9	98801.5	90785.8	81798.1
-25°	95894.5	99555.2	101791.5	102543.8	101791.5	99555.2	95894.5	90900.3	84695.5	77427.1	69249.8
-27.5°	80485.1	83760.9	85755.6	86425.6	85755.6	83760.9	80485.1	75996.0	70380.8	64056.0	56845.4
-30°	65298.8	68120.2	69834.0	70408.9	69834.0	68120.2	65298.8	61419.1	56544.3	51682.6	46444.7
-32.5°	51511.7	53534.3	54760.6	55171.5	54760.6	53534.3	51511.7	48722.7	45206.5	41710.9	38460.3
-35°	40911.4	42153.0	42904.6	43156.3	42904.6	42153.0	40911.4	39195.5	37026.2	34495.3	31809.6
-37.5°	33233.2	34249.8	34864.3	35070.0	34864.3	34249.8	33233.2	31825.9	30042.6	27901.2	25204.0
-40°	25996.4	27011.6	27624.8	27829.9	27624.8	27011.6	25996.4	24588.7	22801.7	20651.0	18181.3
-42.5°	18280.6	19197.6	19750.9	19935.9	19750.9	19197.6	18280.6	17007.7	15389.1	13437.5	11391.4
-45°	10985.1	11636.6	12029.4	12160.7	12029.4	11636.6	10985.1	10079.7	8927.1	7535.0	6067.8
-47.5°	5799.2	5987.7	6101.3	6139.2	6101.3	5987.7	5799.2	5537.0	5202.9	4798.8	4327.2
-50°	4126.5	4189.4	4227.3	4239.9	4227.3	4189.4	4126.5	4039.0	3927.4	3792.2	3634.3
-52.5°	3502.2	3528.0	3543.5	3548.7	3543.5	3528.0	3502.2	3466.2	3420.3	3364.7	3299.6
-55°	3194.0	3218.7	3233.6	3238.6	3233.6	3218.7	3194.0	3159.5	3115.5	3062.1	2999.5
-57.5°	2841.2	2881.1	2905.1	2913.1	2905.1	2881.1	2841.2	2785.7	2714.6	2628.3	2527.2
-60°	2278.8	2311.0	2330.3	2336.8	2330.3	2311.0	2278.8	2233.9	2176.5	2106.7	2024.9
-62.5°	1775.3	1802.2	1818.3	1823.7	1818.3	1802.2	1775.3	1737.8	1689.8	1631.5	1563.1
-65°	1309.4	1331.3	1344.4	1348.8	1344.4	1331.3	1309.4	1278.8	1239.7	1192.2	1136.3
-67.5°	889.0	904.6	914.0	917.1	914.0	904.6	889.0	867.2	839.3	805.3	765.4
-70°	553.9	563.2	568.7	570.6	568.7	563.2	553.9	540.9	524.3	504.1	480.3
-72.5°	326.4	331.7	334.9	336.0	334.9	331.7	326.4	318.9	309.3	297.7	283.9
-75°	175.0	177.8	179.4	180.0	179.4	177.8	175.0	171.1	166.1	160.0	152.8
-77.5°	82.3	83.4	84.0	84.2	84.0	83.4	82.3	80.9	79.0	76.8	74.1
-80°	40.5	40.9	41.1	41.2	41.1	40.9	40.5	39.9	39.2	38.3	37.3
-82.5°	19.9	20.0	20.1	20.1	20.1	20.0	19.9	19.7	19.5	19.3	19.0
-85°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.3	12.3	12.3	12.2
-87.5°	10.4	10.5	10.5	10.5	10.5	10.5	10.4	10.3	10.3	10.1	10.0
-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: P1212208 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-5S-HEG

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°	9.9	9.7	9.5	9.3	9.1	8.9	8.6	8.3	8.0	7.7	7.4
85°	12.2	12.1	12.0	12.0	11.9	11.8	11.7	11.6	11.5	11.4	11.3
82.5°	18.7	18.3	17.9	17.5	17.0	16.5	15.9	15.3	14.7	14.0	13.3
80°	36.1	34.7	33.2	31.6	29.8	27.9	25.8	23.6	21.3	19.7	18.7
77.5°	71.0	67.6	63.8	59.6	55.0	50.1	44.9	40.2	37.4	34.3	31.1
75°	144.6	135.3	125.1	113.8	101.5	88.4	79.7	73.0	65.9	58.4	50.6
72.5°	268.2	250.5	230.9	209.3	185.9	168.2	151.6	134.1	115.5	96.0	80.4
70°	453.0	422.4	388.3	351.1	319.1	290.2	259.3	226.4	191.8	164.9	141.5
67.5°	719.7	668.3	611.3	555.9	510.0	460.8	408.1	352.3	307.7	266.6	223.7
65°	1072.3	1000.4	920.7	850.0	774.2	692.7	605.9	532.1	466.4	397.5	329.0
62.5°	1484.7	1396.7	1303.7	1206.9	1102.0	989.5	879.0	777.0	669.7	561.5	482.1
60°	1931.3	1826.2	1718.5	1601.0	1474.0	1338.7	1206.9	1067.4	920.7	796.8	668.3
57.5°	2411.6	2288.0	2160.5	2021.3	1871.0	1718.5	1560.1	1392.7	1228.8	1061.6	893.4
55°	2928.0	2797.8	2641.4	2470.9	2292.5	2117.3	1931.3	1741.7	1551.0	1352.0	1163.6
52.5°	3224.7	3137.5	3041.4	2936.8	2755.6	2542.5	2318.7	2106.7	1884.6	1665.7	1443.2
50°	3506.3	3416.1	3316.9	3207.5	3085.7	2955.8	2745.3	2489.2	2233.9	1985.5	1735.2
47.5°	4076.4	3858.6	3619.3	3463.9	3338.9	3204.1	3056.5	2892.5	2605.8	2311.0	2036.4
45°	5486.7	4839.7	4200.0	3920.5	3620.9	3438.3	3287.8	3124.5	2951.9	2664.5	2336.8
42.5°	9398.7	7184.5	5704.9	4879.4	4151.5	3811.0	3505.6	3337.5	3158.9	2968.8	2664.5
40°	15400.8	12318.5	9678.0	6870.9	5425.6	4427.1	3926.5	3539.6	3354.2	3158.9	2951.9
37.5°	22155.0	18801.9	15189.4	11499.9	8302.5	5758.0	4644.3	3965.2	3539.6	3337.5	3124.5
35°	28790.1	25249.2	21314.5	17142.6	12741.2	9026.4	5869.6	4644.3	3926.5	3505.6	3287.8
32.5°	34845.4	31266.5	27360.0	22859.3	18131.4	13222.9	9026.4	5758.0	4427.1	3811.0	3438.3
30°	41437.6	37139.9	32782.4	28380.7	23378.9	18131.4	12741.2	8302.5	5425.6	4151.5	3620.9
27.5°	50181.8	43319.2	38319.5	33292.9	28380.7	22859.3	17142.6	11499.9	6870.9	4879.4	3920.5
25°	60606.2	52086.5	44235.6	38319.5	32782.4	27360.0	21314.5	15189.4	9678.0	5704.9	4200.0
22.5°	71983.9	61877.7	52086.5	43319.2	37139.9	31266.5	25249.2	18801.9	12318.5	7184.5	4839.7
20°	83280.6	71983.9	60606.2	50181.8	41437.6	34845.4	28790.1	22155.0	15400.8	9398.7	5486.7
17.5°	93924.3	81798.1	69249.8	56845.4	46444.7	38460.3	31809.6	25204.0	18181.3	11391.4	6067.8
15°	103882.6	90785.8	77427.1	64056.0	51682.6	41710.9	34495.3	27901.2	20651.0	13437.5	7535.0
12.5°	113724.3	98801.5	84695.5	70380.8	56544.3	45206.5	37026.2	30042.6	22801.7	15389.1	8927.1
10°	122456.2	106029.9	90900.3	75996.0	61419.1	48722.7	39195.5	31825.9	24588.7	17007.7	10079.7
7.5°	130353.5	112233.7	95894.5	80485.1	65298.8	51511.7	40911.4	33233.2	25996.4	18280.6	10985.1
5°	136220.8	116807.3	99555.2	83760.9	68120.2	53534.3	42153.0	34249.8	27011.6	19197.6	11636.6
2.5°	139841.2	119613.2	101791.5	85755.6	69834.0	54760.6	42904.6	34864.3	27624.8	19750.9	12029.4
0°	141065.8	120559.3	102543.8	86425.6	70408.9	55171.5	43156.3	35070.0	27829.9	19935.9	12160.7
-2.5°	139841.2	119613.2	101791.5	85755.6	69834.0	54760.6	42904.6	34864.3	27624.8	19750.9	12029.4
-5°	136220.8	116807.3	99555.2	83760.9	68120.2	53534.3	42153.0	34249.8	27011.6	19197.6	11636.6
-7.5°	130353.5	112233.7	95894.5	80485.1	65298.8	51511.7	40911.4	33233.2	25996.4	18280.6	10985.1
-10°	122456.2	106029.9	90900.3	75996.0	61419.1	48722.7	39195.5	31825.9	24588.7	17007.7	10079.7
-12.5°	113724.3	98801.5	84695.5	70380.8	56544.3	45206.5	37026.2	30042.6	22801.7	15389.1	8927.1
-15°	103882.6	90785.8	77427.1	64056.0	51682.6	41710.9	34495.3	27901.2	20651.0	13437.5	7535.0
-17.5°	93924.3	81798.1	69249.8	56845.4	46444.7	38460.3	31809.6	25204.0	18181.3	11391.4	6067.8
-20°	83280.6	71983.9	60606.2	50181.8	41437.6	34845.4	28790.1	22155.0	15400.8	9398.7	5486.7



REPORT NUMBER: P1212208 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-1000R-57-80-5S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	71983.9	61877.7	52086.5	43319.2	37139.9	31266.5	25249.2	18801.9	12318.5	7184.5	4839.7
-25°	60606.2	52086.5	44235.6	38319.5	32782.4	27360.0	21314.5	15189.4	9678.0	5704.9	4200.0
-27.5°	50181.8	43319.2	38319.5	33292.9	28380.7	22859.3	17142.6	11499.9	6870.9	4879.4	3920.5
-30°	41437.6	37139.9	32782.4	28380.7	23378.9	18131.4	12741.2	8302.5	5425.6	4151.5	3620.9
-32.5°	34845.4	31266.5	27360.0	22859.3	18131.4	13222.9	9026.4	5758.0	4427.1	3811.0	3438.3
-35°	28790.1	25249.2	21314.5	17142.6	12741.2	9026.4	5869.6	4644.3	3926.5	3505.6	3287.8
-37.5°	22155.0	18801.9	15189.4	11499.9	8302.5	5758.0	4644.3	3965.2	3539.6	3337.5	3124.5
-40°	15400.8	12318.5	9678.0	6870.9	5425.6	4427.1	3926.5	3539.6	3354.2	3158.9	2951.9
-42.5°	9398.7	7184.5	5704.9	4879.4	4151.5	3811.0	3505.6	3337.5	3158.9	2968.8	2664.5
-45°	5486.7	4839.7	4200.0	3920.5	3620.9	3438.3	3287.8	3124.5	2951.9	2664.5	2336.8
-47.5°	4076.4	3858.6	3619.3	3463.9	3338.9	3204.1	3056.5	2892.5	2605.8	2311.0	2036.4
-50°	3506.3	3416.1	3316.9	3207.5	3085.7	2955.8	2745.3	2489.2	2233.9	1985.5	1735.2
-52.5°	3224.7	3137.5	3041.4	2936.8	2755.6	2542.5	2318.7	2106.7	1884.6	1665.7	1443.2
-55°	2928.0	2797.8	2641.4	2470.9	2292.5	2117.3	1931.3	1741.7	1551.0	1352.0	1163.6
-57.5°	2411.6	2288.0	2160.5	2021.3	1871.0	1718.5	1560.1	1392.7	1228.8	1061.6	893.4
-60°	1931.3	1826.2	1718.5	1601.0	1474.0	1338.7	1206.9	1067.4	920.7	796.8	668.3
-62.5°	1484.7	1396.7	1303.7	1206.9	1102.0	989.5	879.0	777.0	669.7	561.5	482.1
-65°	1072.3	1000.4	920.7	850.0	774.2	692.7	605.9	532.1	466.4	397.5	329.0
-67.5°	719.7	668.3	611.3	555.9	510.0	460.8	408.1	352.3	307.7	266.6	223.7
-70°	453.0	422.4	388.3	351.1	319.1	290.2	259.3	226.4	191.8	164.9	141.5
-72.5°	268.2	250.5	230.9	209.3	185.9	168.2	151.6	134.1	115.5	96.0	80.4
-75°	144.6	135.3	125.1	113.8	101.5	88.4	79.7	73.0	65.9	58.4	50.6
-77.5°	71.0	67.6	63.8	59.6	55.0	50.1	44.9	40.2	37.4	34.3	31.1
-80°	36.1	34.7	33.2	31.6	29.8	27.9	25.8	23.6	21.3	19.7	18.7
-82.5°	18.7	18.3	17.9	17.5	17.0	16.5	15.9	15.3	14.7	14.0	13.3
-85°	12.2	12.1	12.0	12.0	11.9	11.8	11.7	11.6	11.5	11.4	11.3
-87.5°	9.9	9.7	9.5	9.3	9.1	8.9	8.6	8.3	8.0	7.7	7.4
-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: P1212208 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-80-5S-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°	7.1	6.7	6.4	6.0	5.6	5.2	4.8	4.4	4.0	3.6	3.2
85°	11.2	11.0	10.9	10.8	10.6	10.5	9.7	8.9	8.0	7.2	6.3
82.5°	12.6	12.3	12.1	11.9	11.7	11.4	11.2	11.0	10.8	10.5	9.4
80°	17.8	16.7	15.7	14.6	13.5	12.4	12.1	11.8	11.5	11.2	10.9
77.5°	27.8	24.3	20.7	19.0	17.6	16.1	14.7	13.2	12.2	11.8	11.4
75°	42.4	37.6	33.3	28.9	24.3	19.9	18.1	16.3	14.5	12.6	12.0
72.5°	70.8	60.9	50.6	40.6	35.3	29.8	24.2	19.5	17.4	15.2	13.0
70°	117.1	91.9	75.9	63.8	51.3	39.9	33.5	26.9	20.3	17.7	15.2
67.5°	179.4	150.9	121.4	91.1	73.3	58.9	44.3	35.4	27.9	20.3	17.4
65°	279.2	227.6	176.5	142.8	108.1	79.0	62.8	46.2	35.4	26.9	19.5
62.5°	399.5	321.4	262.7	202.3	155.7	116.7	80.9	62.8	44.3	33.5	24.2
60°	546.4	453.0	356.7	283.9	216.4	160.0	116.7	79.0	58.9	39.9	29.8
57.5°	748.6	598.9	485.4	378.2	291.0	216.4	155.7	108.1	73.3	51.3	35.3
55°	968.8	797.2	631.1	496.2	378.2	283.9	202.3	142.8	91.1	63.8	40.6
52.5°	1225.3	1009.6	813.4	631.1	485.4	356.7	262.7	176.5	121.4	75.9	50.6
50°	1489.0	1246.0	1009.6	797.2	598.9	453.0	321.4	227.6	150.9	91.9	60.9
47.5°	1758.4	1489.0	1225.3	968.8	748.6	546.4	399.5	279.2	179.4	117.1	70.8
45°	2036.4	1735.2	1443.2	1163.6	893.4	668.3	482.1	329.0	223.7	141.5	80.4
42.5°	2311.0	1985.5	1665.7	1352.0	1061.6	796.8	561.5	397.5	266.6	164.9	96.0
40°	2605.8	2233.9	1884.6	1551.0	1228.8	920.7	669.7	466.4	307.7	191.8	115.5
37.5°	2892.5	2489.2	2106.7	1741.7	1392.7	1067.4	777.0	532.1	352.3	226.4	134.1
35°	3056.5	2745.3	2318.7	1931.3	1560.1	1206.9	879.0	605.9	408.1	259.3	151.6
32.5°	3204.1	2955.8	2542.5	2117.3	1718.5	1338.7	989.5	692.7	460.8	290.2	168.2
30°	3338.9	3085.7	2755.6	2292.5	1871.0	1474.0	1102.0	774.2	510.0	319.1	185.9
27.5°	3463.9	3207.5	2936.8	2470.9	2021.3	1601.0	1206.9	850.0	555.9	351.1	209.3
25°	3619.3	3316.9	3041.4	2641.4	2160.5	1718.5	1303.7	920.7	611.3	388.3	230.9
22.5°	3858.6	3416.1	3137.5	2797.8	2288.0	1826.2	1396.7	1000.4	668.3	422.4	250.5
20°	4076.4	3506.3	3224.7	2928.0	2411.6	1931.3	1484.7	1072.3	719.7	453.0	268.2
17.5°	4327.2	3634.3	3299.6	2999.5	2527.2	2024.9	1563.1	1136.3	765.4	480.3	283.9
15°	4798.8	3792.2	3364.7	3062.1	2628.3	2106.7	1631.5	1192.2	805.3	504.1	297.7
12.5°	5202.9	3927.4	3420.3	3115.5	2714.6	2176.5	1689.8	1239.7	839.3	524.3	309.3
10°	5537.0	4039.0	3466.2	3159.5	2785.7	2233.9	1737.8	1278.8	867.2	540.9	318.9
7.5°	5799.2	4126.5	3502.2	3194.0	2841.2	2278.8	1775.3	1309.4	889.0	553.9	326.4
5°	5987.7	4189.4	3528.0	3218.7	2881.1	2311.0	1802.2	1331.3	904.6	563.2	331.7
2.5°	6101.3	4227.3	3543.5	3233.6	2905.1	2330.3	1818.3	1344.4	914.0	568.7	334.9
0°	6139.2	4239.9	3548.7	3238.6	2913.1	2336.8	1823.7	1348.8	917.1	570.6	336.0
-2.5°	6101.3	4227.3	3543.5	3233.6	2905.1	2330.3	1818.3	1344.4	914.0	568.7	334.9
-5°	5987.7	4189.4	3528.0	3218.7	2881.1	2311.0	1802.2	1331.3	904.6	563.2	331.7
-7.5°	5799.2	4126.5	3502.2	3194.0	2841.2	2278.8	1775.3	1309.4	889.0	553.9	326.4
-10°	5537.0	4039.0	3466.2	3159.5	2785.7	2233.9	1737.8	1278.8	867.2	540.9	318.9
-12.5°	5202.9	3927.4	3420.3	3115.5	2714.6	2176.5	1689.8	1239.7	839.3	524.3	309.3
-15°	4798.8	3792.2	3364.7	3062.1	2628.3	2106.7	1631.5	1192.2	805.3	504.1	297.7
-17.5°	4327.2	3634.3	3299.6	2999.5	2527.2	2024.9	1563.1	1136.3	765.4	480.3	283.9
-20°	4076.4	3506.3	3224.7	2928.0	2411.6	1931.3	1484.7	1072.3	719.7	453.0	268.2



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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°	3858.6	3416.1	3137.5	2797.8	2288.0	1826.2	1396.7	1000.4	668.3	422.4	250.5
-25°	3619.3	3316.9	3041.4	2641.4	2160.5	1718.5	1303.7	920.7	611.3	388.3	230.9
-27.5°	3463.9	3207.5	2936.8	2470.9	2021.3	1601.0	1206.9	850.0	555.9	351.1	209.3
-30°	3338.9	3085.7	2755.6	2292.5	1871.0	1474.0	1102.0	774.2	510.0	319.1	185.9
-32.5°	3204.1	2955.8	2542.5	2117.3	1718.5	1338.7	989.5	692.7	460.8	290.2	168.2
-35°	3056.5	2745.3	2318.7	1931.3	1560.1	1206.9	879.0	605.9	408.1	259.3	151.6
-37.5°	2892.5	2489.2	2106.7	1741.7	1392.7	1067.4	777.0	532.1	352.3	226.4	134.1
-40°	2605.8	2233.9	1884.6	1551.0	1228.8	920.7	669.7	466.4	307.7	191.8	115.5
-42.5°	2311.0	1985.5	1665.7	1352.0	1061.6	796.8	561.5	397.5	266.6	164.9	96.0
-45°	2036.4	1735.2	1443.2	1163.6	893.4	668.3	482.1	329.0	223.7	141.5	80.4
-47.5°	1758.4	1489.0	1225.3	968.8	748.6	546.4	399.5	279.2	179.4	117.1	70.8
-50°	1489.0	1246.0	1009.6	797.2	598.9	453.0	321.4	227.6	150.9	91.9	60.9
-52.5°	1225.3	1009.6	813.4	631.1	485.4	356.7	262.7	176.5	121.4	75.9	50.6
-55°	968.8	797.2	631.1	496.2	378.2	283.9	202.3	142.8	91.1	63.8	40.6
-57.5°	748.6	598.9	485.4	378.2	291.0	216.4	155.7	108.1	73.3	51.3	35.3
-60°	546.4	453.0	356.7	283.9	216.4	160.0	116.7	79.0	58.9	39.9	29.8
-62.5°	399.5	321.4	262.7	202.3	155.7	116.7	80.9	62.8	44.3	33.5	24.2
-65°	279.2	227.6	176.5	142.8	108.1	79.0	62.8	46.2	35.4	26.9	19.5
-67.5°	179.4	150.9	121.4	91.1	73.3	58.9	44.3	35.4	27.9	20.3	17.4
-70°	117.1	91.9	75.9	63.8	51.3	39.9	33.5	26.9	20.3	17.7	15.2
-72.5°	70.8	60.9	50.6	40.6	35.3	29.8	24.2	19.5	17.4	15.2	13.0
-75°	42.4	37.6	33.3	28.9	24.3	19.9	18.1	16.3	14.5	12.6	12.0
-77.5°	27.8	24.3	20.7	19.0	17.6	16.1	14.7	13.2	12.2	11.8	11.4
-80°	17.8	16.7	15.7	14.6	13.5	12.4	12.1	11.8	11.5	11.2	10.9
-82.5°	12.6	12.3	12.1	11.9	11.7	11.4	11.2	11.0	10.8	10.5	9.4
-85°	11.2	11.0	10.9	10.8	10.6	10.5	9.7	8.9	8.0	7.2	6.3
-87.5°	7.1	6.7	6.4	6.0	5.6	5.2	4.8	4.4	4.0	3.6	3.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	2.3	1.8	1.4	0.9	0.5	0.0
85°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
82.5°	8.1	6.8	5.5	4.1	2.7	1.4	0.0
80°	10.6	9.0	7.3	5.5	3.6	1.8	0.0
77.5°	11.0	10.6	9.0	6.8	4.5	2.3	0.0
75°	11.5	11.0	10.6	8.1	5.4	2.7	0.0
72.5°	12.0	11.4	10.9	9.4	6.3	3.2	0.0
70°	12.6	11.8	11.2	10.5	7.2	3.6	0.0
67.5°	14.5	12.2	11.5	10.8	8.0	4.0	0.0
65°	16.3	13.2	11.8	11.0	8.9	4.4	0.0
62.5°	18.1	14.7	12.1	11.2	9.7	4.8	0.0
60°	19.9	16.1	12.4	11.4	10.5	5.2	0.0
57.5°	24.3	17.6	13.5	11.7	10.6	5.6	0.0
55°	28.9	19.0	14.6	11.9	10.8	6.0	0.0
52.5°	33.3	20.7	15.7	12.1	10.9	6.4	0.0
50°	37.6	24.3	16.7	12.3	11.0	6.7	0.0
47.5°	42.4	27.8	17.8	12.6	11.2	7.1	0.0
45°	50.6	31.1	18.7	13.3	11.3	7.4	0.0
42.5°	58.4	34.3	19.7	14.0	11.4	7.7	0.0
40°	65.9	37.4	21.3	14.7	11.5	8.0	0.0
37.5°	73.0	40.2	23.6	15.3	11.6	8.3	0.0
35°	79.7	44.9	25.8	15.9	11.7	8.6	0.0
32.5°	88.4	50.1	27.9	16.5	11.8	8.9	0.0
30°	101.5	55.0	29.8	17.0	11.9	9.1	0.0
27.5°	113.8	59.6	31.6	17.5	12.0	9.3	0.0
25°	125.1	63.8	33.2	17.9	12.0	9.5	0.0
22.5°	135.3	67.6	34.7	18.3	12.1	9.7	0.0
20°	144.6	71.0	36.1	18.7	12.2	9.9	0.0
17.5°	152.8	74.1	37.3	19.0	12.2	10.0	0.0
15°	160.0	76.8	38.3	19.3	12.3	10.1	0.0
12.5°	166.1	79.0	39.2	19.5	12.3	10.3	0.0
10°	171.1	80.9	39.9	19.7	12.3	10.3	0.0
7.5°	175.0	82.3	40.5	19.9	12.4	10.4	0.0
5°	177.8	83.4	40.9	20.0	12.4	10.5	0.0
2.5°	179.4	84.0	41.1	20.1	12.4	10.5	0.0
0°	180.0	84.2	41.2	20.1	12.4	10.5	0.0
-2.5°	179.4	84.0	41.1	20.1	12.4	10.5	0.0
-5°	177.8	83.4	40.9	20.0	12.4	10.5	0.0
-7.5°	175.0	82.3	40.5	19.9	12.4	10.4	0.0
-10°	171.1	80.9	39.9	19.7	12.3	10.3	0.0
-12.5°	166.1	79.0	39.2	19.5	12.3	10.3	0.0
-15°	160.0	76.8	38.3	19.3	12.3	10.1	0.0
-17.5°	152.8	74.1	37.3	19.0	12.2	10.0	0.0
-20°	144.6	71.0	36.1	18.7	12.2	9.9	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	135.3	67.6	34.7	18.3	12.1	9.7	0.0
-25°	125.1	63.8	33.2	17.9	12.0	9.5	0.0
-27.5°	113.8	59.6	31.6	17.5	12.0	9.3	0.0
-30°	101.5	55.0	29.8	17.0	11.9	9.1	0.0
-32.5°	88.4	50.1	27.9	16.5	11.8	8.9	0.0
-35°	79.7	44.9	25.8	15.9	11.7	8.6	0.0
-37.5°	73.0	40.2	23.6	15.3	11.6	8.3	0.0
-40°	65.9	37.4	21.3	14.7	11.5	8.0	0.0
-42.5°	58.4	34.3	19.7	14.0	11.4	7.7	0.0
-45°	50.6	31.1	18.7	13.3	11.3	7.4	0.0
-47.5°	42.4	27.8	17.8	12.6	11.2	7.1	0.0
-50°	37.6	24.3	16.7	12.3	11.0	6.7	0.0
-52.5°	33.3	20.7	15.7	12.1	10.9	6.4	0.0
-55°	28.9	19.0	14.6	11.9	10.8	6.0	0.0
-57.5°	24.3	17.6	13.5	11.7	10.6	5.6	0.0
-60°	19.9	16.1	12.4	11.4	10.5	5.2	0.0
-62.5°	18.1	14.7	12.1	11.2	9.7	4.8	0.0
-65°	16.3	13.2	11.8	11.0	8.9	4.4	0.0
-67.5°	14.5	12.2	11.5	10.8	8.0	4.0	0.0
-70°	12.6	11.8	11.2	10.5	7.2	3.6	0.0
-72.5°	12.0	11.4	10.9	9.4	6.3	3.2	0.0
-75°	11.5	11.0	10.6	8.1	5.4	2.7	0.0
-77.5°	11.0	10.6	9.0	6.8	4.5	2.3	0.0
-80°	10.6	9.0	7.3	5.5	3.6	1.8	0.0
-82.5°	8.1	6.8	5.5	4.1	2.7	1.4	0.0
-85°	5.4	4.5	3.6	2.7	1.8	0.9	0.0
-87.5°	2.7	2.3	1.8	1.4	0.9	0.5	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)