

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: P1212094 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-40-80-3S-HEG**

Issue Date: 11/14/2025

Test Information

Test Method: LM-79-08
Report Number: P1212094 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/14/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: EPHESUS
Catalog Number: EPH-LS12-1000R-40-80-3S-HEG
Description: EPHESUS LS12 LUMINAIRE
(12) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

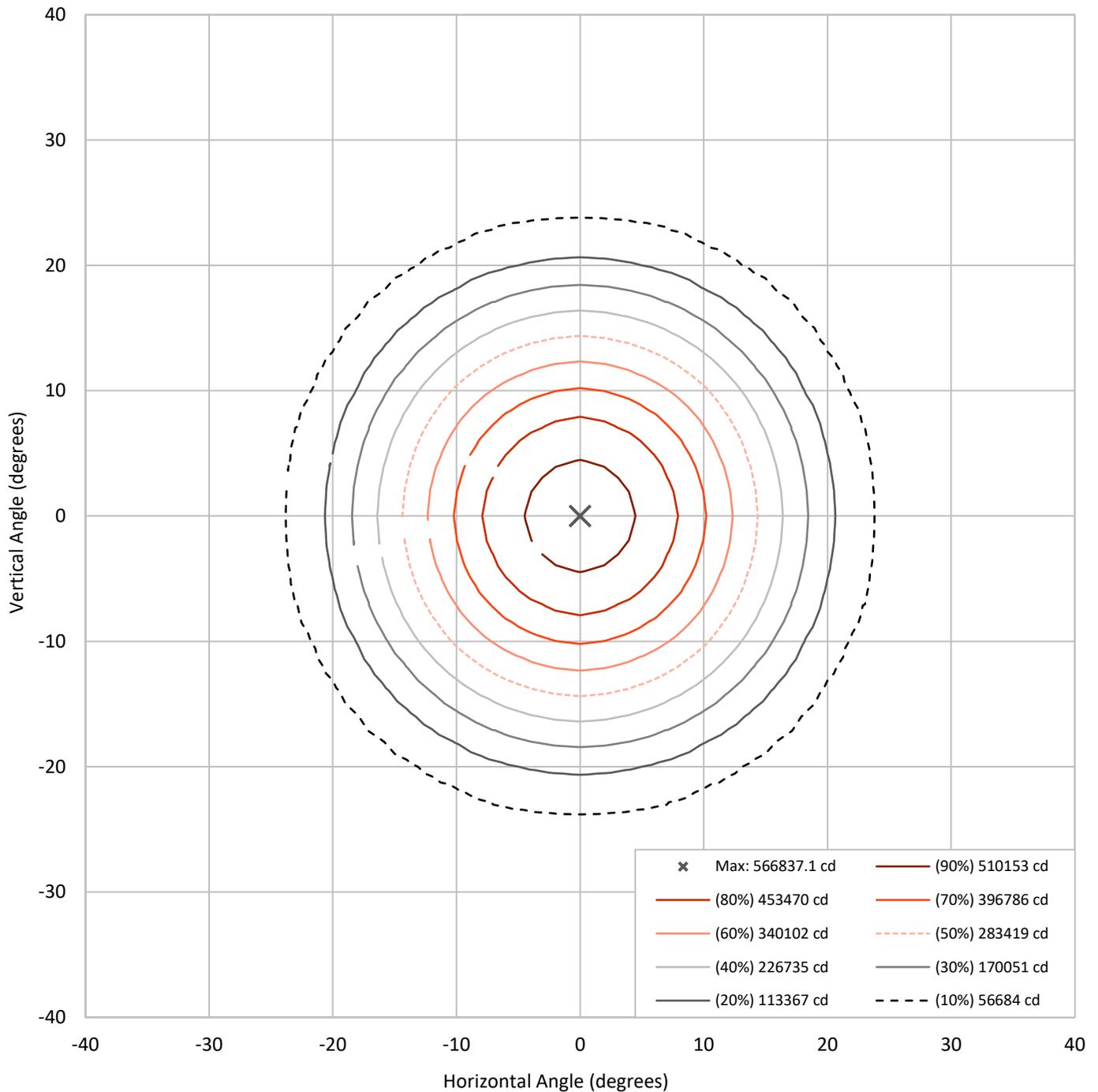
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	158848.6 lumens	Max Intensity:	566837.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	152.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	28.7°H x 28.7°V	Field Angle (10%):	47.6°H x 47.6°V
Beam Lumens:	83085.9 lumens	Field Lumens:	128092.3 lumens
Beam Efficiency:	52.3%	Field Efficiency:	80.6%
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-40-80-3S-HEG

Iso-Candela Plot





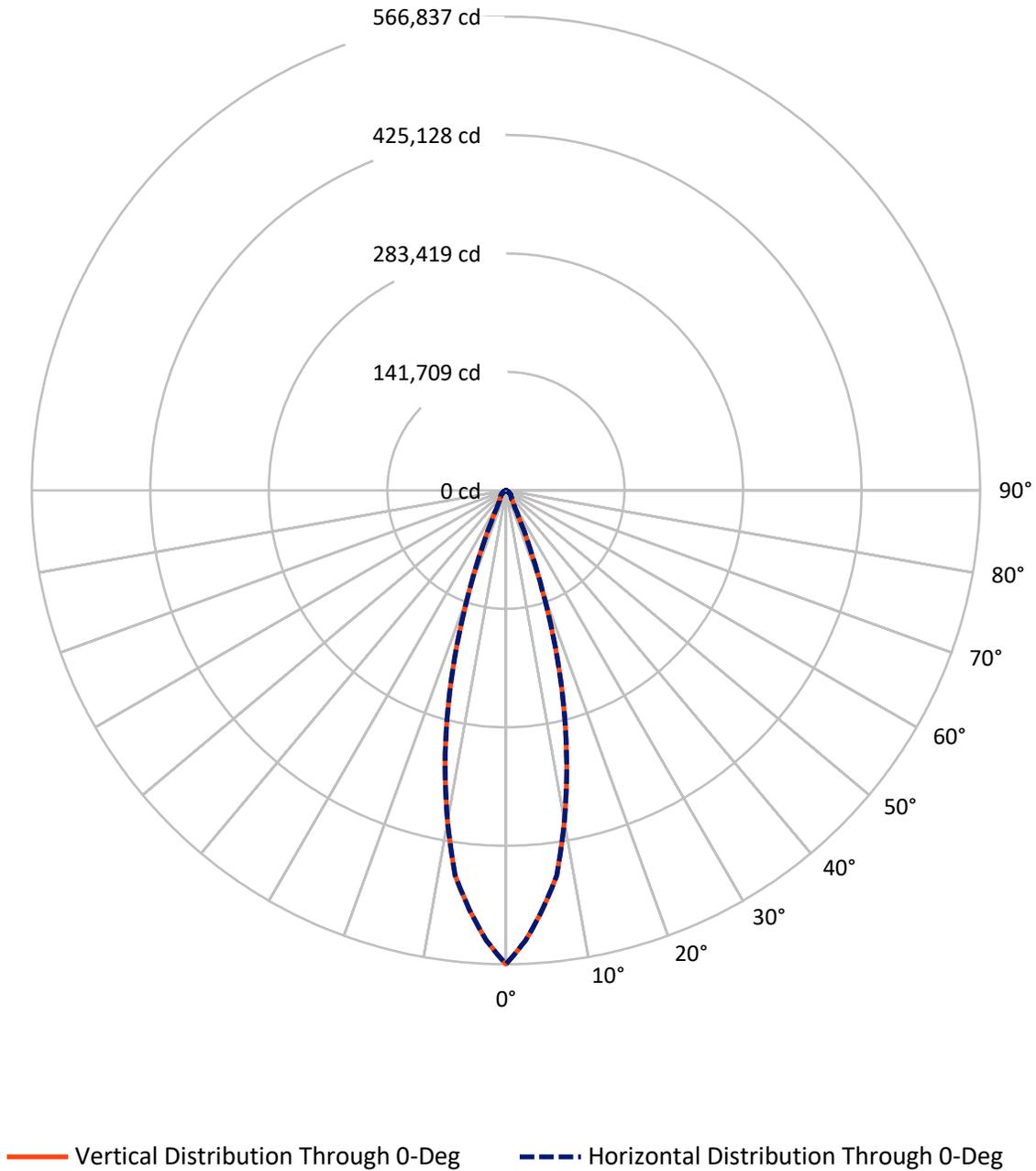
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Lumen Table

90	0.1	0.7	4.6	13.2	17.7	13.2	4.6	0.7	0.1										
80	0.1	0.7	4.6	13.2	17.7	13.2	4.6	0.7	0.1										
70	0.3	0.7	3.4	10.3	20.9	32.8	43.1	48.9	48.9	43.1	32.8	20.9	10.3	3.4	0.7	0.3			
60		2.6	12.1	30.8	56.8	88.6	117.5	134.0	134.0	117.5	88.6	56.8	30.8	12.1	2.6				
50	1.7	6.3	25.2	60.4	115.6	175.5	222.2	246.4	246.4	222.2	175.5	115.6	60.4	25.2	6.3	1.7			
40		11.2	40.2	100.2	180.9	251.5	317.0	369.7	369.7	317.0	251.5	180.9	100.2	40.2	11.2				
30	4.0	15.8	56.9	137.7	227.6	348.7	707.6	1411.4	1411.4	707.6	348.7	227.6	137.7	56.9	15.8	4.0			
20		19.5	70.9	163.6	269.7	667.3	3250.8	7165.3	7165.3	3250.8	667.3	269.7	163.6	70.9	19.5				
10	5.1	21.4	78.4	175.8	305.6	1299.1	6972.0	13586.7	13586.7	6972.0	1299.1	305.6	175.8	78.4	21.4	5.1			
0		21.4	78.4	175.8	305.6	1299.1	6972.0	13586.7	13586.7	6972.0	1299.1	305.6	175.8	78.4	21.4				
-10	4.0	19.5	70.9	163.6	269.7	667.3	3250.8	7165.3	7165.3	3250.8	667.3	269.7	163.6	70.9	19.5	4.0			
-20		15.8	56.9	137.7	227.6	348.7	707.6	1411.4	1411.4	707.6	348.7	227.6	137.7	56.9	15.8				
-30	1.7	11.2	40.2	100.2	180.9	251.5	317.0	369.7	369.7	317.0	251.5	180.9	100.2	40.2	11.2	1.7			
-40		6.3	25.2	60.4	115.6	175.5	222.2	246.4	246.4	222.2	175.5	115.6	60.4	25.2	6.3				
-50	0.3	2.6	12.1	30.8	56.8	88.6	117.5	134.0	134.0	117.5	88.6	56.8	30.8	12.1	2.6	0.3			
-60		0.7	3.4	10.3	20.9	32.8	43.1	48.9	48.9	43.1	32.8	20.9	10.3	3.4	0.7				
-70	0.1	0.7	4.6	13.2	17.7	13.2	4.6	0.7	0.1						0.1				
-80		0.1	0.7	4.6	13.2	17.7	13.2	4.6	0.7	0.1									
-90	0.1	0.7	4.6	13.2	17.7	13.2	4.6	0.7	0.1										

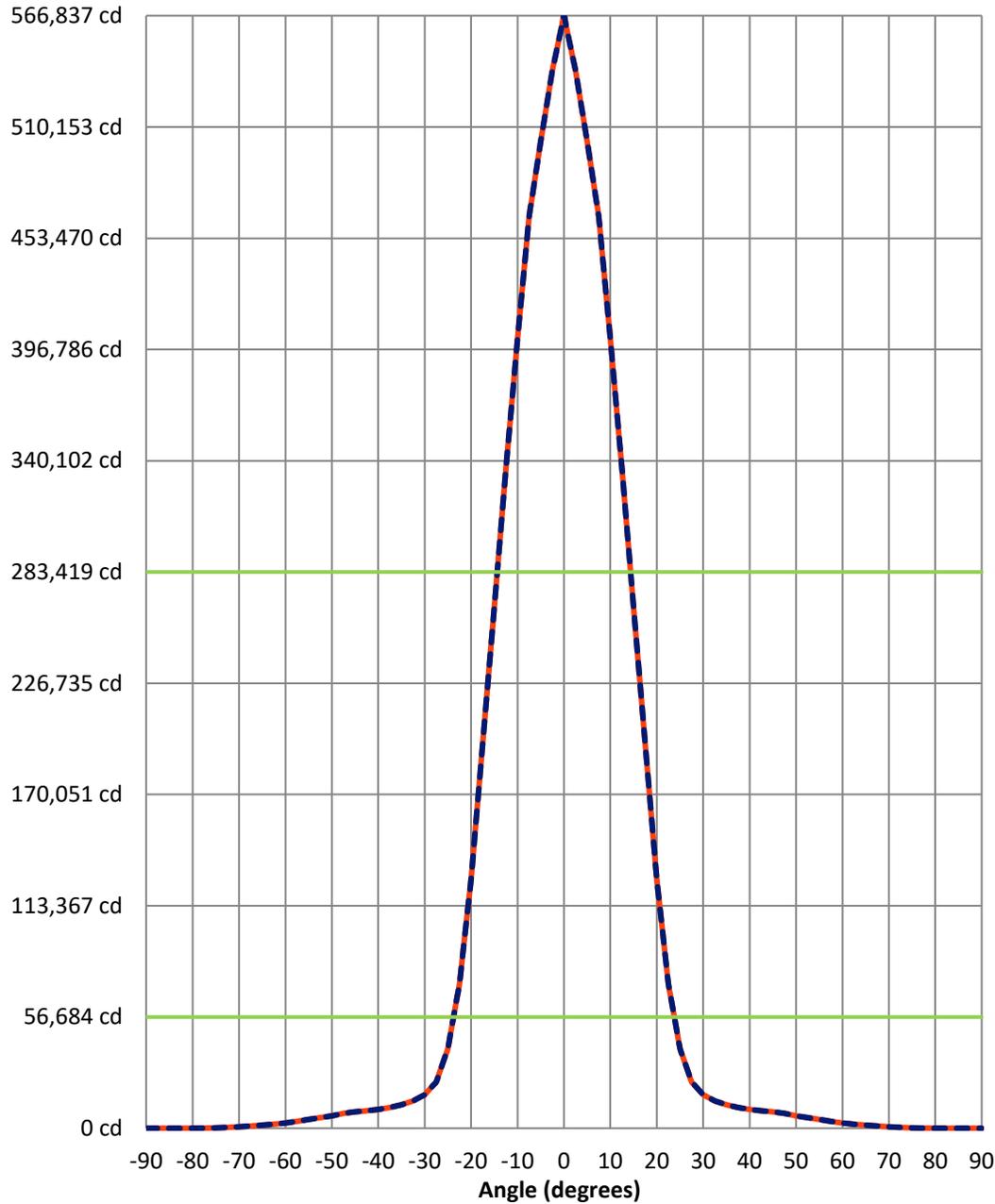
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 28.7°
 V Angle: 28.7°
 Lumens: 83085.9
 Efficiency: 52.3%

Field:
 H Angle: 47.6°
 V Angle: 47.6°
 Lumens: 128092.3
 Efficiency: 80.6%

Spill:
 Lumens: 30756.3
 Efficiency: 19.4%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.2	0.3	0.5	0.7	0.8	1.0	1.1	1.3	1.5	1.6
85°	0.0	0.3	0.7	1.0	1.3	1.6	2.0	2.3	2.6	2.9	3.2
82.5°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.8	4.1	4.3
80°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.2	4.5	4.7	5.0
77.5°	0.0	0.8	1.6	2.5	3.3	3.9	4.3	4.7	5.1	5.4	6.2
75°	0.0	1.0	2.0	2.9	3.9	4.3	4.8	5.2	5.8	7.2	8.5
72.5°	0.0	1.1	2.3	3.4	4.2	4.7	5.2	6.0	7.7	9.3	10.8
70°	0.0	1.3	2.6	3.8	4.5	5.1	5.8	7.7	9.5	11.5	18.9
67.5°	0.0	1.5	2.9	4.1	4.7	5.4	7.2	9.3	11.5	20.0	28.3
65°	0.0	1.6	3.2	4.3	5.0	6.2	8.5	10.8	18.9	28.3	40.7
62.5°	0.0	1.8	3.5	4.5	5.3	7.3	9.8	15.8	26.2	38.4	60.3
60°	0.0	1.9	3.8	4.7	5.6	8.4	11.2	22.1	33.4	55.8	79.5
57.5°	0.0	2.0	3.9	4.9	6.4	9.4	15.9	28.2	46.8	72.7	120.6
55°	0.0	2.2	4.1	5.1	7.2	10.5	21.1	34.2	61.5	95.7	171.3
52.5°	0.0	2.3	4.2	5.3	8.0	12.0	26.0	45.9	75.8	140.1	220.7
50°	0.0	2.4	4.3	5.5	8.8	16.0	30.8	58.1	96.8	183.2	293.2
47.5°	0.0	2.6	4.4	5.7	9.6	19.8	36.2	69.8	133.8	224.9	366.3
45°	0.0	2.7	4.5	6.3	10.3	23.6	45.9	81.1	169.5	287.7	436.9
42.5°	0.0	2.8	4.7	6.8	11.0	27.1	55.1	102.9	203.7	348.5	525.9
40°	0.0	2.9	4.8	7.3	12.7	30.5	64.0	131.5	242.5	406.7	614.6
37.5°	0.0	3.0	4.9	7.8	15.2	33.7	72.4	158.6	291.6	467.8	699.2
35°	0.0	3.1	4.9	8.2	17.7	39.1	80.3	184.3	338.1	539.6	791.0
32.5°	0.0	3.2	5.0	8.6	20.0	45.3	91.7	208.5	381.9	607.3	895.3
30°	0.0	3.3	5.1	9.0	22.1	51.1	111.0	234.2	422.9	670.8	993.0
27.5°	0.0	3.4	5.2	9.4	24.1	56.5	128.9	267.3	466.2	729.7	1084.0
25°	0.0	3.4	5.3	9.7	25.9	61.5	145.4	297.8	514.2	797.5	1168.2
22.5°	0.0	3.5	5.3	10.0	27.6	66.0	160.4	325.7	557.9	865.9	1249.1
20°	0.0	3.6	5.4	10.3	29.1	70.1	174.0	350.8	597.4	927.6	1322.1
17.5°	0.0	3.6	5.4	10.5	30.4	73.7	186.0	373.1	632.5	982.5	1387.1
15°	0.0	3.7	5.5	10.7	31.6	76.8	196.5	392.5	663.1	1030.4	1443.8
12.5°	0.0	3.7	5.5	10.9	32.5	79.5	205.4	409.0	689.1	1071.1	1492.1
10°	0.0	3.7	5.5	11.0	33.4	81.7	212.7	422.6	710.5	1104.6	1531.8
7.5°	0.0	3.8	5.6	11.2	34.0	83.4	218.4	433.1	727.2	1130.8	1562.8
5°	0.0	3.8	5.6	11.2	34.4	84.6	222.5	440.7	739.1	1149.5	1585.0
2.5°	0.0	3.8	5.6	11.3	34.7	85.4	225.0	445.3	746.3	1160.7	1598.3
0°	0.0	3.8	5.6	11.3	34.8	85.6	225.8	446.8	748.7	1164.5	1602.8
-2.5°	0.0	3.8	5.6	11.3	34.7	85.4	225.0	445.3	746.3	1160.7	1598.3
-5°	0.0	3.8	5.6	11.2	34.4	84.6	222.5	440.7	739.1	1149.5	1585.0
-7.5°	0.0	3.8	5.6	11.2	34.0	83.4	218.4	433.1	727.2	1130.8	1562.8
-10°	0.0	3.7	5.5	11.0	33.4	81.7	212.7	422.6	710.5	1104.6	1531.8
-12.5°	0.0	3.7	5.5	10.9	32.5	79.5	205.4	409.0	689.1	1071.1	1492.1
-15°	0.0	3.7	5.5	10.7	31.6	76.8	196.5	392.5	663.1	1030.4	1443.8
-17.5°	0.0	3.6	5.4	10.5	30.4	73.7	186.0	373.1	632.5	982.5	1387.1
-20°	0.0	3.6	5.4	10.3	29.1	70.1	174.0	350.8	597.4	927.6	1322.1



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 CATALOG NUMBER: EPH-LS12-1000R-40-80-3S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.5	5.3	10.0	27.6	66.0	160.4	325.7	557.9	865.9	1249.1
-25°	0.0	3.4	5.3	9.7	25.9	61.5	145.4	297.8	514.2	797.5	1168.2
-27.5°	0.0	3.4	5.2	9.4	24.1	56.5	128.9	267.3	466.2	729.7	1084.0
-30°	0.0	3.3	5.1	9.0	22.1	51.1	111.0	234.2	422.9	670.8	993.0
-32.5°	0.0	3.2	5.0	8.6	20.0	45.3	91.7	208.5	381.9	607.3	895.3
-35°	0.0	3.1	4.9	8.2	17.7	39.1	80.3	184.3	338.1	539.6	791.0
-37.5°	0.0	3.0	4.9	7.8	15.2	33.7	72.4	158.6	291.6	467.8	699.2
-40°	0.0	2.9	4.8	7.3	12.7	30.5	64.0	131.5	242.5	406.7	614.6
-42.5°	0.0	2.8	4.7	6.8	11.0	27.1	55.1	102.9	203.7	348.5	525.9
-45°	0.0	2.7	4.5	6.3	10.3	23.6	45.9	81.1	169.5	287.7	436.9
-47.5°	0.0	2.6	4.4	5.7	9.6	19.8	36.2	69.8	133.8	224.9	366.3
-50°	0.0	2.4	4.3	5.5	8.8	16.0	30.8	58.1	96.8	183.2	293.2
-52.5°	0.0	2.3	4.2	5.3	8.0	12.0	26.0	45.9	75.8	140.1	220.7
-55°	0.0	2.2	4.1	5.1	7.2	10.5	21.1	34.2	61.5	95.7	171.3
-57.5°	0.0	2.0	3.9	4.9	6.4	9.4	15.9	28.2	46.8	72.7	120.6
-60°	0.0	1.9	3.8	4.7	5.6	8.4	11.2	22.1	33.4	55.8	79.5
-62.5°	0.0	1.8	3.5	4.5	5.3	7.3	9.8	15.8	26.2	38.4	60.3
-65°	0.0	1.6	3.2	4.3	5.0	6.2	8.5	10.8	18.9	28.3	40.7
-67.5°	0.0	1.5	2.9	4.1	4.7	5.4	7.2	9.3	11.5	20.0	28.3
-70°	0.0	1.3	2.6	3.8	4.5	5.1	5.8	7.7	9.5	11.5	18.9
-72.5°	0.0	1.1	2.3	3.4	4.2	4.7	5.2	6.0	7.7	9.3	10.8
-75°	0.0	1.0	2.0	2.9	3.9	4.3	4.8	5.2	5.8	7.2	8.5
-77.5°	0.0	0.8	1.6	2.5	3.3	3.9	4.3	4.7	5.1	5.4	6.2
-80°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.2	4.5	4.7	5.0
-82.5°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.8	4.1	4.3
-85°	0.0	0.3	0.7	1.0	1.3	1.6	2.0	2.3	2.6	2.9	3.2
-87.5°	0.0	0.2	0.3	0.5	0.7	0.8	1.0	1.1	1.3	1.5	1.6
-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°	1.8	1.9	2.0	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0
85°	3.5	3.8	3.9	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.9
82.5°	4.5	4.7	4.9	5.1	5.3	5.5	5.7	6.3	6.8	7.3	7.8
80°	5.3	5.6	6.4	7.2	8.0	8.8	9.6	10.3	11.0	12.7	15.2
77.5°	7.3	8.4	9.4	10.5	12.0	16.0	19.8	23.6	27.1	30.5	33.7
75°	9.8	11.2	15.9	21.1	26.0	30.8	36.2	45.9	55.1	64.0	72.4
72.5°	15.8	22.1	28.2	34.2	45.9	58.1	69.8	81.1	102.9	131.5	158.6
70°	26.2	33.4	46.8	61.5	75.8	96.8	133.8	169.5	203.7	242.5	291.6
67.5°	38.4	55.8	72.7	95.7	140.1	183.2	224.9	287.7	348.5	406.7	467.8
65°	60.3	79.5	120.6	171.3	220.7	293.2	366.3	436.9	525.9	614.6	699.2
62.5°	81.8	133.2	190.2	257.4	343.0	426.1	528.5	634.8	737.0	867.6	996.4
60°	133.2	196.5	277.4	373.1	473.5	597.4	717.6	865.9	1020.1	1168.2	1317.1
57.5°	190.2	277.4	383.1	501.1	639.1	782.7	962.3	1136.1	1311.2	1481.0	1645.7
55°	257.4	373.1	501.1	653.0	821.3	1020.6	1217.0	1414.8	1605.9	1800.3	1986.5
52.5°	343.0	473.5	639.1	821.3	1040.1	1258.4	1477.4	1695.0	1912.3	2140.0	2407.5
50°	426.1	597.4	782.7	1020.6	1258.4	1498.4	1739.8	1980.2	2261.5	2560.7	2909.4
47.5°	528.5	717.6	962.3	1217.0	1477.4	1739.8	2002.9	2322.8	2653.5	3081.5	3504.5
45°	634.8	865.9	1136.1	1414.8	1695.0	1980.2	2322.8	2684.6	3168.2	3651.4	4170.4
42.5°	737.0	1020.1	1311.2	1605.9	1912.3	2261.5	2653.5	3168.2	3702.2	4273.5	4805.1
40°	867.6	1168.2	1481.0	1800.3	2140.0	2560.7	3081.5	3651.4	4273.5	4854.4	5401.5
37.5°	996.4	1317.1	1645.7	1986.5	2407.5	2909.4	3504.5	4170.4	4805.1	5401.5	5966.3
35°	1118.7	1458.7	1809.1	2196.2	2662.8	3287.3	3965.9	4658.3	5301.3	5916.3	6596.6
32.5°	1238.0	1592.6	1963.9	2420.2	2988.0	3663.3	4409.6	5102.7	5767.1	6448.5	7355.6
30°	1352.3	1725.0	2123.6	2631.2	3302.5	4053.7	4809.2	5521.7	6206.8	7129.1	7896.9
27.5°	1458.7	1849.1	2304.6	2882.5	3606.2	4419.8	5178.2	5908.5	6756.9	7710.6	8312.9
25°	1557.1	1963.9	2472.2	3134.0	3920.5	4744.2	5519.6	6269.5	7319.4	8075.9	8604.8
22.5°	1649.5	2069.7	2625.8	3364.8	4209.3	5037.2	5828.6	6729.8	7751.4	8409.6	8850.4
20°	1735.5	2196.2	2795.0	3579.7	4471.4	5303.4	6109.9	7170.7	8039.5	8619.2	9121.3
17.5°	1812.1	2309.0	2965.5	3794.5	4693.2	5538.9	6380.5	7566.7	8298.8	8808.2	9387.6
15°	1878.9	2407.5	3114.7	3982.6	4885.3	5742.9	6701.9	7797.0	8485.7	8990.0	9626.7
12.5°	1935.9	2491.5	3242.0	4143.2	5049.5	5917.4	6977.3	7978.2	8618.4	9177.8	9917.1
10°	1982.7	2560.7	3346.9	4275.6	5185.0	6061.6	7205.0	8128.1	8728.4	9333.9	10159.0
7.5°	2019.3	2614.7	3428.9	4379.2	5291.1	6174.6	7383.7	8245.9	8815.0	9456.9	10349.9
5°	2045.6	2653.5	3487.7	4453.5	5367.2	6255.8	7512.1	8330.7	8877.3	9545.5	10487.7
2.5°	2061.3	2676.8	3523.1	4498.3	5413.1	6304.7	7589.5	8381.8	8914.9	9599.1	10571.1
0°	2066.6	2684.6	3534.9	4513.2	5428.4	6321.0	7615.4	8398.9	8927.5	9617.0	10599.0
-2.5°	2061.3	2676.8	3523.1	4498.3	5413.1	6304.7	7589.5	8381.8	8914.9	9599.1	10571.1
-5°	2045.6	2653.5	3487.7	4453.5	5367.2	6255.8	7512.1	8330.7	8877.3	9545.5	10487.7
-7.5°	2019.3	2614.7	3428.9	4379.2	5291.1	6174.6	7383.7	8245.9	8815.0	9456.9	10349.9
-10°	1982.7	2560.7	3346.9	4275.6	5185.0	6061.6	7205.0	8128.1	8728.4	9333.9	10159.0
-12.5°	1935.9	2491.5	3242.0	4143.2	5049.5	5917.4	6977.3	7978.2	8618.4	9177.8	9917.1
-15°	1878.9	2407.5	3114.7	3982.6	4885.3	5742.9	6701.9	7797.0	8485.7	8990.0	9626.7
-17.5°	1812.1	2309.0	2965.5	3794.5	4693.2	5538.9	6380.5	7566.7	8298.8	8808.2	9387.6
-20°	1735.5	2196.2	2795.0	3579.7	4471.4	5303.4	6109.9	7170.7	8039.5	8619.2	9121.3



REPORT NUMBER: P1212094 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-3S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1649.5	2069.7	2625.8	3364.8	4209.3	5037.2	5828.6	6729.8	7751.4	8409.6	8850.4
-25°	1557.1	1963.9	2472.2	3134.0	3920.5	4744.2	5519.6	6269.5	7319.4	8075.9	8604.8
-27.5°	1458.7	1849.1	2304.6	2882.5	3606.2	4419.8	5178.2	5908.5	6756.9	7710.6	8312.9
-30°	1352.3	1725.0	2123.6	2631.2	3302.5	4053.7	4809.2	5521.7	6206.8	7129.1	7896.9
-32.5°	1238.0	1592.6	1963.9	2420.2	2988.0	3663.3	4409.6	5102.7	5767.1	6448.5	7355.6
-35°	1118.7	1458.7	1809.1	2196.2	2662.8	3287.3	3965.9	4658.3	5301.3	5916.3	6596.6
-37.5°	996.4	1317.1	1645.7	1986.5	2407.5	2909.4	3504.5	4170.4	4805.1	5401.5	5966.3
-40°	867.6	1168.2	1481.0	1800.3	2140.0	2560.7	3081.5	3651.4	4273.5	4854.4	5401.5
-42.5°	737.0	1020.1	1311.2	1605.9	1912.3	2261.5	2653.5	3168.2	3702.2	4273.5	4805.1
-45°	634.8	865.9	1136.1	1414.8	1695.0	1980.2	2322.8	2684.6	3168.2	3651.4	4170.4
-47.5°	528.5	717.6	962.3	1217.0	1477.4	1739.8	2002.9	2322.8	2653.5	3081.5	3504.5
-50°	426.1	597.4	782.7	1020.6	1258.4	1498.4	1739.8	1980.2	2261.5	2560.7	2909.4
-52.5°	343.0	473.5	639.1	821.3	1040.1	1258.4	1477.4	1695.0	1912.3	2140.0	2407.5
-55°	257.4	373.1	501.1	653.0	821.3	1020.6	1217.0	1414.8	1605.9	1800.3	1986.5
-57.5°	190.2	277.4	383.1	501.1	639.1	782.7	962.3	1136.1	1311.2	1481.0	1645.7
-60°	133.2	196.5	277.4	373.1	473.5	597.4	717.6	865.9	1020.1	1168.2	1317.1
-62.5°	81.8	133.2	190.2	257.4	343.0	426.1	528.5	634.8	737.0	867.6	996.4
-65°	60.3	79.5	120.6	171.3	220.7	293.2	366.3	436.9	525.9	614.6	699.2
-67.5°	38.4	55.8	72.7	95.7	140.1	183.2	224.9	287.7	348.5	406.7	467.8
-70°	26.2	33.4	46.8	61.5	75.8	96.8	133.8	169.5	203.7	242.5	291.6
-72.5°	15.8	22.1	28.2	34.2	45.9	58.1	69.8	81.1	102.9	131.5	158.6
-75°	9.8	11.2	15.9	21.1	26.0	30.8	36.2	45.9	55.1	64.0	72.4
-77.5°	7.3	8.4	9.4	10.5	12.0	16.0	19.8	23.6	27.1	30.5	33.7
-80°	5.3	5.6	6.4	7.2	8.0	8.8	9.6	10.3	11.0	12.7	15.2
-82.5°	4.5	4.7	4.9	5.1	5.3	5.5	5.7	6.3	6.8	7.3	7.8
-85°	3.5	3.8	3.9	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.9
-87.5°	1.8	1.9	2.0	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1212094 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-3S-HEG

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°	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.6	3.7	3.7	3.7
85°	4.9	5.0	5.1	5.2	5.3	5.3	5.4	5.4	5.5	5.5	5.5
82.5°	8.2	8.6	9.0	9.4	9.7	10.0	10.3	10.5	10.7	10.9	11.0
80°	17.7	20.0	22.1	24.1	25.9	27.6	29.1	30.4	31.6	32.5	33.4
77.5°	39.1	45.3	51.1	56.5	61.5	66.0	70.1	73.7	76.8	79.5	81.7
75°	80.3	91.7	111.0	128.9	145.4	160.4	174.0	186.0	196.5	205.4	212.7
72.5°	184.3	208.5	234.2	267.3	297.8	325.7	350.8	373.1	392.5	409.0	422.6
70°	338.1	381.9	422.9	466.2	514.2	557.9	597.4	632.5	663.1	689.1	710.5
67.5°	539.6	607.3	670.8	729.7	797.5	865.9	927.6	982.5	1030.4	1071.1	1104.6
65°	791.0	895.3	993.0	1084.0	1168.2	1249.1	1322.1	1387.1	1443.8	1492.1	1531.8
62.5°	1118.7	1238.0	1352.3	1458.7	1557.1	1649.5	1735.5	1812.1	1878.9	1935.9	1982.7
60°	1458.7	1592.6	1725.0	1849.1	1963.9	2069.7	2196.2	2309.0	2407.5	2491.5	2560.7
57.5°	1809.1	1963.9	2123.6	2304.6	2472.2	2625.8	2795.0	2965.5	3114.7	3242.0	3346.9
55°	2196.2	2420.2	2631.2	2882.5	3134.0	3364.8	3579.7	3794.5	3982.6	4143.2	4275.6
52.5°	2662.8	2988.0	3302.5	3606.2	3920.5	4209.3	4471.4	4693.2	4885.3	5049.5	5185.0
50°	3287.3	3663.3	4053.7	4419.8	4744.2	5037.2	5303.4	5538.9	5742.9	5917.4	6061.6
47.5°	3965.9	4409.6	4809.2	5178.2	5519.6	5828.6	6109.9	6380.5	6701.9	6977.3	7205.0
45°	4658.3	5102.7	5521.7	5908.5	6269.5	6729.8	7170.7	7566.7	7797.0	7978.2	8128.1
42.5°	5301.3	5767.1	6206.8	6756.9	7319.4	7751.4	8039.5	8298.8	8485.7	8618.4	8728.4
40°	5916.3	6448.5	7129.1	7710.6	8075.9	8409.6	8619.2	8808.2	8990.0	9177.8	9333.9
37.5°	6596.6	7355.6	7896.9	8312.9	8604.8	8850.4	9121.3	9387.6	9626.7	9917.1	10159.0
35°	7431.6	7991.1	8438.4	8737.6	9047.9	9391.6	9747.2	10156.8	10521.1	10935.6	11308.8
32.5°	7991.1	8471.1	8804.8	9182.8	9576.0	10083.1	10568.5	11182.3	11741.5	12327.1	12904.9
30°	8438.4	8804.8	9228.2	9691.7	10288.7	10955.1	11694.5	12530.6	13391.3	14247.5	15252.0
27.5°	8737.6	9182.8	9691.7	10358.0	11158.1	12017.0	13144.7	14309.5	15795.4	17098.7	19387.2
25°	9047.9	9576.0	10288.7	11158.1	12167.6	13457.7	15084.5	16865.7	19971.9	22941.5	28376.0
22.5°	9391.6	10083.1	10955.1	12017.0	13457.7	15346.5	17748.0	21757.8	28255.0	36723.8	47060.8
20°	9747.2	10568.5	11694.5	13144.7	15084.5	17748.0	22363.5	31571.0	43129.0	61149.5	78598.8
17.5°	10156.8	11182.3	12530.6	14309.5	16865.7	21757.8	31571.0	46573.4	68453.7	97316.2	125347.0
15°	10521.1	11741.5	13391.3	15795.4	19971.9	28255.0	43129.0	68453.7	103736.3	142680.3	183324.4
12.5°	10935.6	12327.1	14247.5	17098.7	22941.5	36723.8	61149.5	97316.2	142680.3	193196.0	238998.7
10°	11308.8	12904.9	15252.0	19387.2	28376.0	47060.8	78598.8	125347.0	183324.4	238998.7	291862.7
7.5°	11604.0	13363.2	16051.5	21221.3	33652.5	58420.2	99140.9	154855.8	217494.1	278926.2	336725.7
5°	11817.6	13695.6	16632.9	22559.7	37520.1	66794.7	114402.4	177380.3	243574.5	310299.9	371396.9
2.5°	11946.9	13897.1	16986.0	23374.7	39882.7	71932.3	123819.7	191393.4	259995.3	329597.1	394192.7
0°	11990.2	13964.6	17104.5	23648.4	40677.6	73664.7	127005.1	196154.7	265612.8	336112.3	402229.3
-2.5°	11946.9	13897.1	16986.0	23374.7	39882.7	71932.3	123819.7	191393.4	259995.3	329597.1	394192.7
-5°	11817.6	13695.6	16632.9	22559.7	37520.1	66794.7	114402.4	177380.3	243574.5	310299.9	371396.9
-7.5°	11604.0	13363.2	16051.5	21221.3	33652.5	58420.2	99140.9	154855.8	217494.1	278926.2	336725.7
-10°	11308.8	12904.9	15252.0	19387.2	28376.0	47060.8	78598.8	125347.0	183324.4	238998.7	291862.7
-12.5°	10935.6	12327.1	14247.5	17098.7	22941.5	36723.8	61149.5	97316.2	142680.3	193196.0	238998.7
-15°	10521.1	11741.5	13391.3	15795.4	19971.9	28255.0	43129.0	68453.7	103736.3	142680.3	183324.4
-17.5°	10156.8	11182.3	12530.6	14309.5	16865.7	21757.8	31571.0	46573.4	68453.7	97316.2	125347.0
-20°	9747.2	10568.5	11694.5	13144.7	15084.5	17748.0	22363.5	31571.0	43129.0	61149.5	78598.8



REPORT NUMBER: P1212094 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-3S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9391.6	10083.1	10955.1	12017.0	13457.7	15346.5	17748.0	21757.8	28255.0	36723.8	47060.8
-25°	9047.9	9576.0	10288.7	11158.1	12167.6	13457.7	15084.5	16865.7	19971.9	22941.5	28376.0
-27.5°	8737.6	9182.8	9691.7	10358.0	11158.1	12017.0	13144.7	14309.5	15795.4	17098.7	19387.2
-30°	8438.4	8804.8	9228.2	9691.7	10288.7	10955.1	11694.5	12530.6	13391.3	14247.5	15252.0
-32.5°	7991.1	8471.1	8804.8	9182.8	9576.0	10083.1	10568.5	11182.3	11741.5	12327.1	12904.9
-35°	7431.6	7991.1	8438.4	8737.6	9047.9	9391.6	9747.2	10156.8	10521.1	10935.6	11308.8
-37.5°	6596.6	7355.6	7896.9	8312.9	8604.8	8850.4	9121.3	9387.6	9626.7	9917.1	10159.0
-40°	5916.3	6448.5	7129.1	7710.6	8075.9	8409.6	8619.2	8808.2	8990.0	9177.8	9333.9
-42.5°	5301.3	5767.1	6206.8	6756.9	7319.4	7751.4	8039.5	8298.8	8485.7	8618.4	8728.4
-45°	4658.3	5102.7	5521.7	5908.5	6269.5	6729.8	7170.7	7566.7	7797.0	7978.2	8128.1
-47.5°	3965.9	4409.6	4809.2	5178.2	5519.6	5828.6	6109.9	6380.5	6701.9	6977.3	7205.0
-50°	3287.3	3663.3	4053.7	4419.8	4744.2	5037.2	5303.4	5538.9	5742.9	5917.4	6061.6
-52.5°	2662.8	2988.0	3302.5	3606.2	3920.5	4209.3	4471.4	4693.2	4885.3	5049.5	5185.0
-55°	2196.2	2420.2	2631.2	2882.5	3134.0	3364.8	3579.7	3794.5	3982.6	4143.2	4275.6
-57.5°	1809.1	1963.9	2123.6	2304.6	2472.2	2625.8	2795.0	2965.5	3114.7	3242.0	3346.9
-60°	1458.7	1592.6	1725.0	1849.1	1963.9	2069.7	2196.2	2309.0	2407.5	2491.5	2560.7
-62.5°	1118.7	1238.0	1352.3	1458.7	1557.1	1649.5	1735.5	1812.1	1878.9	1935.9	1982.7
-65°	791.0	895.3	993.0	1084.0	1168.2	1249.1	1322.1	1387.1	1443.8	1492.1	1531.8
-67.5°	539.6	607.3	670.8	729.7	797.5	865.9	927.6	982.5	1030.4	1071.1	1104.6
-70°	338.1	381.9	422.9	466.2	514.2	557.9	597.4	632.5	663.1	689.1	710.5
-72.5°	184.3	208.5	234.2	267.3	297.8	325.7	350.8	373.1	392.5	409.0	422.6
-75°	80.3	91.7	111.0	128.9	145.4	160.4	174.0	186.0	196.5	205.4	212.7
-77.5°	39.1	45.3	51.1	56.5	61.5	66.0	70.1	73.7	76.8	79.5	81.7
-80°	17.7	20.0	22.1	24.1	25.9	27.6	29.1	30.4	31.6	32.5	33.4
-82.5°	8.2	8.6	9.0	9.4	9.7	10.0	10.3	10.5	10.7	10.9	11.0
-85°	4.9	5.0	5.1	5.2	5.3	5.3	5.4	5.4	5.5	5.5	5.5
-87.5°	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.6	3.7	3.7	3.7
-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: P1212094 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-100R-40-80-3S-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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.6
85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.5	5.4
82.5°	11.2	11.2	11.3	11.3	11.3	11.2	11.2	11.0	10.9	10.7	10.5
80°	34.0	34.4	34.7	34.8	34.7	34.4	34.0	33.4	32.5	31.6	30.4
77.5°	83.4	84.6	85.4	85.6	85.4	84.6	83.4	81.7	79.5	76.8	73.7
75°	218.4	222.5	225.0	225.8	225.0	222.5	218.4	212.7	205.4	196.5	186.0
72.5°	433.1	440.7	445.3	446.8	445.3	440.7	433.1	422.6	409.0	392.5	373.1
70°	727.2	739.1	746.3	748.7	746.3	739.1	727.2	710.5	689.1	663.1	632.5
67.5°	1130.8	1149.5	1160.7	1164.5	1160.7	1149.5	1130.8	1104.6	1071.1	1030.4	982.5
65°	1562.8	1585.0	1598.3	1602.8	1598.3	1585.0	1562.8	1531.8	1492.1	1443.8	1387.1
62.5°	2019.3	2045.6	2061.3	2066.6	2061.3	2045.6	2019.3	1982.7	1935.9	1878.9	1812.1
60°	2614.7	2653.5	2676.8	2684.6	2676.8	2653.5	2614.7	2560.7	2491.5	2407.5	2309.0
57.5°	3428.9	3487.7	3523.1	3534.9	3523.1	3487.7	3428.9	3346.9	3242.0	3114.7	2965.5
55°	4379.2	4453.5	4498.3	4513.2	4498.3	4453.5	4379.2	4275.6	4143.2	3982.6	3794.5
52.5°	5291.1	5367.2	5413.1	5428.4	5413.1	5367.2	5291.1	5185.0	5049.5	4885.3	4693.2
50°	6174.6	6255.8	6304.7	6321.0	6304.7	6255.8	6174.6	6061.6	5917.4	5742.9	5538.9
47.5°	7383.7	7512.1	7589.5	7615.4	7589.5	7512.1	7383.7	7205.0	6977.3	6701.9	6380.5
45°	8245.9	8330.7	8381.8	8398.9	8381.8	8330.7	8245.9	8128.1	7978.2	7797.0	7566.7
42.5°	8815.0	8877.3	8914.9	8927.5	8914.9	8877.3	8815.0	8728.4	8618.4	8485.7	8298.8
40°	9456.9	9545.5	9599.1	9617.0	9599.1	9545.5	9456.9	9333.9	9177.8	8990.0	8808.2
37.5°	10349.9	10487.7	10571.1	10599.0	10571.1	10487.7	10349.9	10159.0	9917.1	9626.7	9387.6
35°	11604.0	11817.6	11946.9	11990.2	11946.9	11817.6	11604.0	11308.8	10935.6	10521.1	10156.8
32.5°	13363.2	13695.6	13897.1	13964.6	13897.1	13695.6	13363.2	12904.9	12327.1	11741.5	11182.3
30°	16051.5	16632.9	16986.0	17104.5	16986.0	16632.9	16051.5	15252.0	14247.5	13391.3	12530.6
27.5°	21221.3	22559.7	23374.7	23648.4	23374.7	22559.7	21221.3	19387.2	17098.7	15795.4	14309.5
25°	33652.5	37520.1	39882.7	40677.6	39882.7	37520.1	33652.5	28376.0	22941.5	19971.9	16865.7
22.5°	58420.2	66794.7	71932.3	73664.7	71932.3	66794.7	58420.2	47060.8	36723.8	28255.0	21757.8
20°	99140.9	114402.4	123819.7	127005.1	123819.7	114402.4	99140.9	78598.8	61149.5	43129.0	31571.0
17.5°	154855.8	177380.3	191393.4	196154.7	191393.4	177380.3	154855.8	125347.0	97316.2	68453.7	46573.4
15°	217494.1	243574.5	259995.3	265612.8	259995.3	243574.5	217494.1	183324.4	142680.3	103736.3	68453.7
12.5°	278926.2	310299.9	329597.1	336112.3	329597.1	310299.9	278926.2	238998.7	193196.0	142680.3	97316.2
10°	336725.7	371396.9	394192.7	402229.3	394192.7	371396.9	336725.7	291862.7	238998.7	183324.4	125347.0
7.5°	386629.5	429011.7	455961.9	464532.5	455961.9	429011.7	386629.5	336725.7	278926.2	217494.1	154855.8
5°	429011.7	473740.3	495821.4	502887.3	495821.4	473740.3	429011.7	371396.9	310299.9	243574.5	177380.3
2.5°	455961.9	495821.4	523710.8	538861.8	523710.8	495821.4	455961.9	394192.7	329597.1	259995.3	191393.4
0°	464532.5	502887.3	538861.8	566837.1	538861.8	502887.3	464532.5	402229.3	336112.3	265612.8	196154.7
-2.5°	455961.9	495821.4	523710.8	538861.8	523710.8	495821.4	455961.9	394192.7	329597.1	259995.3	191393.4
-5°	429011.7	473740.3	495821.4	502887.3	495821.4	473740.3	429011.7	371396.9	310299.9	243574.5	177380.3
-7.5°	386629.5	429011.7	455961.9	464532.5	455961.9	429011.7	386629.5	336725.7	278926.2	217494.1	154855.8
-10°	336725.7	371396.9	394192.7	402229.3	394192.7	371396.9	336725.7	291862.7	238998.7	183324.4	125347.0
-12.5°	278926.2	310299.9	329597.1	336112.3	329597.1	310299.9	278926.2	238998.7	193196.0	142680.3	97316.2
-15°	217494.1	243574.5	259995.3	265612.8	259995.3	243574.5	217494.1	183324.4	142680.3	103736.3	68453.7
-17.5°	154855.8	177380.3	191393.4	196154.7	191393.4	177380.3	154855.8	125347.0	97316.2	68453.7	46573.4
-20°	99140.9	114402.4	123819.7	127005.1	123819.7	114402.4	99140.9	78598.8	61149.5	43129.0	31571.0



REPORT NUMBER: P1212094 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-3S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	58420.2	66794.7	71932.3	73664.7	71932.3	66794.7	58420.2	47060.8	36723.8	28255.0	21757.8
-25°	33652.5	37520.1	39882.7	40677.6	39882.7	37520.1	33652.5	28376.0	22941.5	19971.9	16865.7
-27.5°	21221.3	22559.7	23374.7	23648.4	23374.7	22559.7	21221.3	19387.2	17098.7	15795.4	14309.5
-30°	16051.5	16632.9	16986.0	17104.5	16986.0	16632.9	16051.5	15252.0	14247.5	13391.3	12530.6
-32.5°	13363.2	13695.6	13897.1	13964.6	13897.1	13695.6	13363.2	12904.9	12327.1	11741.5	11182.3
-35°	11604.0	11817.6	11946.9	11990.2	11946.9	11817.6	11604.0	11308.8	10935.6	10521.1	10156.8
-37.5°	10349.9	10487.7	10571.1	10599.0	10571.1	10487.7	10349.9	10159.0	9917.1	9626.7	9387.6
-40°	9456.9	9545.5	9599.1	9617.0	9599.1	9545.5	9456.9	9333.9	9177.8	8990.0	8808.2
-42.5°	8815.0	8877.3	8914.9	8927.5	8914.9	8877.3	8815.0	8728.4	8618.4	8485.7	8298.8
-45°	8245.9	8330.7	8381.8	8398.9	8381.8	8330.7	8245.9	8128.1	7978.2	7797.0	7566.7
-47.5°	7383.7	7512.1	7589.5	7615.4	7589.5	7512.1	7383.7	7205.0	6977.3	6701.9	6380.5
-50°	6174.6	6255.8	6304.7	6321.0	6304.7	6255.8	6174.6	6061.6	5917.4	5742.9	5538.9
-52.5°	5291.1	5367.2	5413.1	5428.4	5413.1	5367.2	5291.1	5185.0	5049.5	4885.3	4693.2
-55°	4379.2	4453.5	4498.3	4513.2	4498.3	4453.5	4379.2	4275.6	4143.2	3982.6	3794.5
-57.5°	3428.9	3487.7	3523.1	3534.9	3523.1	3487.7	3428.9	3346.9	3242.0	3114.7	2965.5
-60°	2614.7	2653.5	2676.8	2684.6	2676.8	2653.5	2614.7	2560.7	2491.5	2407.5	2309.0
-62.5°	2019.3	2045.6	2061.3	2066.6	2061.3	2045.6	2019.3	1982.7	1935.9	1878.9	1812.1
-65°	1562.8	1585.0	1598.3	1602.8	1598.3	1585.0	1562.8	1531.8	1492.1	1443.8	1387.1
-67.5°	1130.8	1149.5	1160.7	1164.5	1160.7	1149.5	1130.8	1104.6	1071.1	1030.4	982.5
-70°	727.2	739.1	746.3	748.7	746.3	739.1	727.2	710.5	689.1	663.1	632.5
-72.5°	433.1	440.7	445.3	446.8	445.3	440.7	433.1	422.6	409.0	392.5	373.1
-75°	218.4	222.5	225.0	225.8	225.0	222.5	218.4	212.7	205.4	196.5	186.0
-77.5°	83.4	84.6	85.4	85.6	85.4	84.6	83.4	81.7	79.5	76.8	73.7
-80°	34.0	34.4	34.7	34.8	34.7	34.4	34.0	33.4	32.5	31.6	30.4
-82.5°	11.2	11.2	11.3	11.3	11.3	11.2	11.2	11.0	10.9	10.7	10.5
-85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.5	5.4
-87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.6
-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°	3.6	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7
85°	5.4	5.3	5.3	5.2	5.1	5.0	4.9	4.9	4.8	4.7	4.5
82.5°	10.3	10.0	9.7	9.4	9.0	8.6	8.2	7.8	7.3	6.8	6.3
80°	29.1	27.6	25.9	24.1	22.1	20.0	17.7	15.2	12.7	11.0	10.3
77.5°	70.1	66.0	61.5	56.5	51.1	45.3	39.1	33.7	30.5	27.1	23.6
75°	174.0	160.4	145.4	128.9	111.0	91.7	80.3	72.4	64.0	55.1	45.9
72.5°	350.8	325.7	297.8	267.3	234.2	208.5	184.3	158.6	131.5	102.9	81.1
70°	597.4	557.9	514.2	466.2	422.9	381.9	338.1	291.6	242.5	203.7	169.5
67.5°	927.6	865.9	797.5	729.7	670.8	607.3	539.6	467.8	406.7	348.5	287.7
65°	1322.1	1249.1	1168.2	1084.0	993.0	895.3	791.0	699.2	614.6	525.9	436.9
62.5°	1735.5	1649.5	1557.1	1458.7	1352.3	1238.0	1118.7	996.4	867.6	737.0	634.8
60°	2196.2	2069.7	1963.9	1849.1	1725.0	1592.6	1458.7	1317.1	1168.2	1020.1	865.9
57.5°	2795.0	2625.8	2472.2	2304.6	2123.6	1963.9	1809.1	1645.7	1481.0	1311.2	1136.1
55°	3579.7	3364.8	3134.0	2882.5	2631.2	2420.2	2196.2	1986.5	1800.3	1605.9	1414.8
52.5°	4471.4	4209.3	3920.5	3606.2	3302.5	2988.0	2662.8	2407.5	2140.0	1912.3	1695.0
50°	5303.4	5037.2	4744.2	4419.8	4053.7	3663.3	3287.3	2909.4	2560.7	2261.5	1980.2
47.5°	6109.9	5828.6	5519.6	5178.2	4809.2	4409.6	3965.9	3504.5	3081.5	2653.5	2322.8
45°	7170.7	6729.8	6269.5	5908.5	5521.7	5102.7	4658.3	4170.4	3651.4	3168.2	2684.6
42.5°	8039.5	7751.4	7319.4	6756.9	6206.8	5767.1	5301.3	4805.1	4273.5	3702.2	3168.2
40°	8619.2	8409.6	8075.9	7710.6	7129.1	6448.5	5916.3	5401.5	4854.4	4273.5	3651.4
37.5°	9121.3	8850.4	8604.8	8312.9	7896.9	7355.6	6596.6	5966.3	5401.5	4805.1	4170.4
35°	9747.2	9391.6	9047.9	8737.6	8438.4	7991.1	7431.6	6596.6	5916.3	5301.3	4658.3
32.5°	10568.5	10083.1	9576.0	9182.8	8804.8	8471.1	7991.1	7355.6	6448.5	5767.1	5102.7
30°	11694.5	10955.1	10288.7	9691.7	9228.2	8804.8	8438.4	7896.9	7129.1	6206.8	5521.7
27.5°	13144.7	12017.0	11158.1	10358.0	9691.7	9182.8	8737.6	8312.9	7710.6	6756.9	5908.5
25°	15084.5	13457.7	12167.6	11158.1	10288.7	9576.0	9047.9	8604.8	8075.9	7319.4	6269.5
22.5°	17748.0	15346.5	13457.7	12017.0	10955.1	10083.1	9391.6	8850.4	8409.6	7751.4	6729.8
20°	22363.5	17748.0	15084.5	13144.7	11694.5	10568.5	9747.2	9121.3	8619.2	8039.5	7170.7
17.5°	31571.0	21757.8	16865.7	14309.5	12530.6	11182.3	10156.8	9387.6	8808.2	8298.8	7566.7
15°	43129.0	28255.0	19971.9	15795.4	13391.3	11741.5	10521.1	9626.7	8990.0	8485.7	7797.0
12.5°	61149.5	36723.8	22941.5	17098.7	14247.5	12327.1	10935.6	9917.1	9177.8	8618.4	7978.2
10°	78598.8	47060.8	28376.0	19387.2	15252.0	12904.9	11308.8	10159.0	9333.9	8728.4	8128.1
7.5°	99140.9	58420.2	33652.5	21221.3	16051.5	13363.2	11604.0	10349.9	9456.9	8815.0	8245.9
5°	114402.4	66794.7	37520.1	22559.7	16632.9	13695.6	11817.6	10487.7	9545.5	8877.3	8330.7
2.5°	123819.7	71932.3	39882.7	23374.7	16986.0	13897.1	11946.9	10571.1	9599.1	8914.9	8381.8
0°	127005.1	73664.7	40677.6	23648.4	17104.5	13964.6	11990.2	10599.0	9617.0	8927.5	8398.9
-2.5°	123819.7	71932.3	39882.7	23374.7	16986.0	13897.1	11946.9	10571.1	9599.1	8914.9	8381.8
-5°	114402.4	66794.7	37520.1	22559.7	16632.9	13695.6	11817.6	10487.7	9545.5	8877.3	8330.7
-7.5°	99140.9	58420.2	33652.5	21221.3	16051.5	13363.2	11604.0	10349.9	9456.9	8815.0	8245.9
-10°	78598.8	47060.8	28376.0	19387.2	15252.0	12904.9	11308.8	10159.0	9333.9	8728.4	8128.1
-12.5°	61149.5	36723.8	22941.5	17098.7	14247.5	12327.1	10935.6	9917.1	9177.8	8618.4	7978.2
-15°	43129.0	28255.0	19971.9	15795.4	13391.3	11741.5	10521.1	9626.7	8990.0	8485.7	7797.0
-17.5°	31571.0	21757.8	16865.7	14309.5	12530.6	11182.3	10156.8	9387.6	8808.2	8298.8	7566.7
-20°	22363.5	17748.0	15084.5	13144.7	11694.5	10568.5	9747.2	9121.3	8619.2	8039.5	7170.7



REPORT NUMBER: P1212094 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	17748.0	15346.5	13457.7	12017.0	10955.1	10083.1	9391.6	8850.4	8409.6	7751.4	6729.8
-25°	15084.5	13457.7	12167.6	11158.1	10288.7	9576.0	9047.9	8604.8	8075.9	7319.4	6269.5
-27.5°	13144.7	12017.0	11158.1	10358.0	9691.7	9182.8	8737.6	8312.9	7710.6	6756.9	5908.5
-30°	11694.5	10955.1	10288.7	9691.7	9228.2	8804.8	8438.4	7896.9	7129.1	6206.8	5521.7
-32.5°	10568.5	10083.1	9576.0	9182.8	8804.8	8471.1	7991.1	7355.6	6448.5	5767.1	5102.7
-35°	9747.2	9391.6	9047.9	8737.6	8438.4	7991.1	7431.6	6596.6	5916.3	5301.3	4658.3
-37.5°	9121.3	8850.4	8604.8	8312.9	7896.9	7355.6	6596.6	5966.3	5401.5	4805.1	4170.4
-40°	8619.2	8409.6	8075.9	7710.6	7129.1	6448.5	5916.3	5401.5	4854.4	4273.5	3651.4
-42.5°	8039.5	7751.4	7319.4	6756.9	6206.8	5767.1	5301.3	4805.1	4273.5	3702.2	3168.2
-45°	7170.7	6729.8	6269.5	5908.5	5521.7	5102.7	4658.3	4170.4	3651.4	3168.2	2684.6
-47.5°	6109.9	5828.6	5519.6	5178.2	4809.2	4409.6	3965.9	3504.5	3081.5	2653.5	2322.8
-50°	5303.4	5037.2	4744.2	4419.8	4053.7	3663.3	3287.3	2909.4	2560.7	2261.5	1980.2
-52.5°	4471.4	4209.3	3920.5	3606.2	3302.5	2988.0	2662.8	2407.5	2140.0	1912.3	1695.0
-55°	3579.7	3364.8	3134.0	2882.5	2631.2	2420.2	2196.2	1986.5	1800.3	1605.9	1414.8
-57.5°	2795.0	2625.8	2472.2	2304.6	2123.6	1963.9	1809.1	1645.7	1481.0	1311.2	1136.1
-60°	2196.2	2069.7	1963.9	1849.1	1725.0	1592.6	1458.7	1317.1	1168.2	1020.1	865.9
-62.5°	1735.5	1649.5	1557.1	1458.7	1352.3	1238.0	1118.7	996.4	867.6	737.0	634.8
-65°	1322.1	1249.1	1168.2	1084.0	993.0	895.3	791.0	699.2	614.6	525.9	436.9
-67.5°	927.6	865.9	797.5	729.7	670.8	607.3	539.6	467.8	406.7	348.5	287.7
-70°	597.4	557.9	514.2	466.2	422.9	381.9	338.1	291.6	242.5	203.7	169.5
-72.5°	350.8	325.7	297.8	267.3	234.2	208.5	184.3	158.6	131.5	102.9	81.1
-75°	174.0	160.4	145.4	128.9	111.0	91.7	80.3	72.4	64.0	55.1	45.9
-77.5°	70.1	66.0	61.5	56.5	51.1	45.3	39.1	33.7	30.5	27.1	23.6
-80°	29.1	27.6	25.9	24.1	22.1	20.0	17.7	15.2	12.7	11.0	10.3
-82.5°	10.3	10.0	9.7	9.4	9.0	8.6	8.2	7.8	7.3	6.8	6.3
-85°	5.4	5.3	5.3	5.2	5.1	5.0	4.9	4.9	4.8	4.7	4.5
-87.5°	3.6	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7
-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: P1212094 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-3S-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°	2.6	2.4	2.3	2.2	2.0	1.9	1.8	1.6	1.5	1.3	1.1
85°	4.4	4.3	4.2	4.1	3.9	3.8	3.5	3.2	2.9	2.6	2.3
82.5°	5.7	5.5	5.3	5.1	4.9	4.7	4.5	4.3	4.1	3.8	3.4
80°	9.6	8.8	8.0	7.2	6.4	5.6	5.3	5.0	4.7	4.5	4.2
77.5°	19.8	16.0	12.0	10.5	9.4	8.4	7.3	6.2	5.4	5.1	4.7
75°	36.2	30.8	26.0	21.1	15.9	11.2	9.8	8.5	7.2	5.8	5.2
72.5°	69.8	58.1	45.9	34.2	28.2	22.1	15.8	10.8	9.3	7.7	6.0
70°	133.8	96.8	75.8	61.5	46.8	33.4	26.2	18.9	11.5	9.5	7.7
67.5°	224.9	183.2	140.1	95.7	72.7	55.8	38.4	28.3	20.0	11.5	9.3
65°	366.3	293.2	220.7	171.3	120.6	79.5	60.3	40.7	28.3	18.9	10.8
62.5°	528.5	426.1	343.0	257.4	190.2	133.2	81.8	60.3	38.4	26.2	15.8
60°	717.6	597.4	473.5	373.1	277.4	196.5	133.2	79.5	55.8	33.4	22.1
57.5°	962.3	782.7	639.1	501.1	383.1	277.4	190.2	120.6	72.7	46.8	28.2
55°	1217.0	1020.6	821.3	653.0	501.1	373.1	257.4	171.3	95.7	61.5	34.2
52.5°	1477.4	1258.4	1040.1	821.3	639.1	473.5	343.0	220.7	140.1	75.8	45.9
50°	1739.8	1498.4	1258.4	1020.6	782.7	597.4	426.1	293.2	183.2	96.8	58.1
47.5°	2002.9	1739.8	1477.4	1217.0	962.3	717.6	528.5	366.3	224.9	133.8	69.8
45°	2322.8	1980.2	1695.0	1414.8	1136.1	865.9	634.8	436.9	287.7	169.5	81.1
42.5°	2653.5	2261.5	1912.3	1605.9	1311.2	1020.1	737.0	525.9	348.5	203.7	102.9
40°	3081.5	2560.7	2140.0	1800.3	1481.0	1168.2	867.6	614.6	406.7	242.5	131.5
37.5°	3504.5	2909.4	2407.5	1986.5	1645.7	1317.1	996.4	699.2	467.8	291.6	158.6
35°	3965.9	3287.3	2662.8	2196.2	1809.1	1458.7	1118.7	791.0	539.6	338.1	184.3
32.5°	4409.6	3663.3	2988.0	2420.2	1963.9	1592.6	1238.0	895.3	607.3	381.9	208.5
30°	4809.2	4053.7	3302.5	2631.2	2123.6	1725.0	1352.3	993.0	670.8	422.9	234.2
27.5°	5178.2	4419.8	3606.2	2882.5	2304.6	1849.1	1458.7	1084.0	729.7	466.2	267.3
25°	5519.6	4744.2	3920.5	3134.0	2472.2	1963.9	1557.1	1168.2	797.5	514.2	297.8
22.5°	5828.6	5037.2	4209.3	3364.8	2625.8	2069.7	1649.5	1249.1	865.9	557.9	325.7
20°	6109.9	5303.4	4471.4	3579.7	2795.0	2196.2	1735.5	1322.1	927.6	597.4	350.8
17.5°	6380.5	5538.9	4693.2	3794.5	2965.5	2309.0	1812.1	1387.1	982.5	632.5	373.1
15°	6701.9	5742.9	4885.3	3982.6	3114.7	2407.5	1878.9	1443.8	1030.4	663.1	392.5
12.5°	6977.3	5917.4	5049.5	4143.2	3242.0	2491.5	1935.9	1492.1	1071.1	689.1	409.0
10°	7205.0	6061.6	5185.0	4275.6	3346.9	2560.7	1982.7	1531.8	1104.6	710.5	422.6
7.5°	7383.7	6174.6	5291.1	4379.2	3428.9	2614.7	2019.3	1562.8	1130.8	727.2	433.1
5°	7512.1	6255.8	5367.2	4453.5	3487.7	2653.5	2045.6	1585.0	1149.5	739.1	440.7
2.5°	7589.5	6304.7	5413.1	4498.3	3523.1	2676.8	2061.3	1598.3	1160.7	746.3	445.3
0°	7615.4	6321.0	5428.4	4513.2	3534.9	2684.6	2066.6	1602.8	1164.5	748.7	446.8
-2.5°	7589.5	6304.7	5413.1	4498.3	3523.1	2676.8	2061.3	1598.3	1160.7	746.3	445.3
-5°	7512.1	6255.8	5367.2	4453.5	3487.7	2653.5	2045.6	1585.0	1149.5	739.1	440.7
-7.5°	7383.7	6174.6	5291.1	4379.2	3428.9	2614.7	2019.3	1562.8	1130.8	727.2	433.1
-10°	7205.0	6061.6	5185.0	4275.6	3346.9	2560.7	1982.7	1531.8	1104.6	710.5	422.6
-12.5°	6977.3	5917.4	5049.5	4143.2	3242.0	2491.5	1935.9	1492.1	1071.1	689.1	409.0
-15°	6701.9	5742.9	4885.3	3982.6	3114.7	2407.5	1878.9	1443.8	1030.4	663.1	392.5
-17.5°	6380.5	5538.9	4693.2	3794.5	2965.5	2309.0	1812.1	1387.1	982.5	632.5	373.1
-20°	6109.9	5303.4	4471.4	3579.7	2795.0	2196.2	1735.5	1322.1	927.6	597.4	350.8



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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°	5828.6	5037.2	4209.3	3364.8	2625.8	2069.7	1649.5	1249.1	865.9	557.9	325.7
-25°	5519.6	4744.2	3920.5	3134.0	2472.2	1963.9	1557.1	1168.2	797.5	514.2	297.8
-27.5°	5178.2	4419.8	3606.2	2882.5	2304.6	1849.1	1458.7	1084.0	729.7	466.2	267.3
-30°	4809.2	4053.7	3302.5	2631.2	2123.6	1725.0	1352.3	993.0	670.8	422.9	234.2
-32.5°	4409.6	3663.3	2988.0	2420.2	1963.9	1592.6	1238.0	895.3	607.3	381.9	208.5
-35°	3965.9	3287.3	2662.8	2196.2	1809.1	1458.7	1118.7	791.0	539.6	338.1	184.3
-37.5°	3504.5	2909.4	2407.5	1986.5	1645.7	1317.1	996.4	699.2	467.8	291.6	158.6
-40°	3081.5	2560.7	2140.0	1800.3	1481.0	1168.2	867.6	614.6	406.7	242.5	131.5
-42.5°	2653.5	2261.5	1912.3	1605.9	1311.2	1020.1	737.0	525.9	348.5	203.7	102.9
-45°	2322.8	1980.2	1695.0	1414.8	1136.1	865.9	634.8	436.9	287.7	169.5	81.1
-47.5°	2002.9	1739.8	1477.4	1217.0	962.3	717.6	528.5	366.3	224.9	133.8	69.8
-50°	1739.8	1498.4	1258.4	1020.6	782.7	597.4	426.1	293.2	183.2	96.8	58.1
-52.5°	1477.4	1258.4	1040.1	821.3	639.1	473.5	343.0	220.7	140.1	75.8	45.9
-55°	1217.0	1020.6	821.3	653.0	501.1	373.1	257.4	171.3	95.7	61.5	34.2
-57.5°	962.3	782.7	639.1	501.1	383.1	277.4	190.2	120.6	72.7	46.8	28.2
-60°	717.6	597.4	473.5	373.1	277.4	196.5	133.2	79.5	55.8	33.4	22.1
-62.5°	528.5	426.1	343.0	257.4	190.2	133.2	81.8	60.3	38.4	26.2	15.8
-65°	366.3	293.2	220.7	171.3	120.6	79.5	60.3	40.7	28.3	18.9	10.8
-67.5°	224.9	183.2	140.1	95.7	72.7	55.8	38.4	28.3	20.0	11.5	9.3
-70°	133.8	96.8	75.8	61.5	46.8	33.4	26.2	18.9	11.5	9.5	7.7
-72.5°	69.8	58.1	45.9	34.2	28.2	22.1	15.8	10.8	9.3	7.7	6.0
-75°	36.2	30.8	26.0	21.1	15.9	11.2	9.8	8.5	7.2	5.8	5.2
-77.5°	19.8	16.0	12.0	10.5	9.4	8.4	7.3	6.2	5.4	5.1	4.7
-80°	9.6	8.8	8.0	7.2	6.4	5.6	5.3	5.0	4.7	4.5	4.2
-82.5°	5.7	5.5	5.3	5.1	4.9	4.7	4.5	4.3	4.1	3.8	3.4
-85°	4.4	4.3	4.2	4.1	3.9	3.8	3.5	3.2	2.9	2.6	2.3
-87.5°	2.6	2.4	2.3	2.2	2.0	1.9	1.8	1.6	1.5	1.3	1.1
-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):

	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°	1.0	0.8	0.7	0.5	0.3	0.2	0.0
85°	2.0	1.6	1.3	1.0	0.7	0.3	0.0
82.5°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
80°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
77.5°	4.3	3.9	3.3	2.5	1.6	0.8	0.0
75°	4.8	4.3	3.9	2.9	2.0	1.0	0.0
72.5°	5.2	4.7	4.2	3.4	2.3	1.1	0.0
70°	5.8	5.1	4.5	3.8	2.6	1.3	0.0
67.5°	7.2	5.4	4.7	4.1	2.9	1.5	0.0
65°	8.5	6.2	5.0	4.3	3.2	1.6	0.0
62.5°	9.8	7.3	5.3	4.5	3.5	1.8	0.0
60°	11.2	8.4	5.6	4.7	3.8	1.9	0.0
57.5°	15.9	9.4	6.4	4.9	3.9	2.0	0.0
55°	21.1	10.5	7.2	5.1	4.1	2.2	0.0
52.5°	26.0	12.0	8.0	5.3	4.2	2.3	0.0
50°	30.8	16.0	8.8	5.5	4.3	2.4	0.0
47.5°	36.2	19.8	9.6	5.7	4.4	2.6	0.0
45°	45.9	23.6	10.3	6.3	4.5	2.7	0.0
42.5°	55.1	27.1	11.0	6.8	4.7	2.8	0.0
40°	64.0	30.5	12.7	7.3	4.8	2.9	0.0
37.5°	72.4	33.7	15.2	7.8	4.9	3.0	0.0
35°	80.3	39.1	17.7	8.2	4.9	3.1	0.0
32.5°	91.7	45.3	20.0	8.6	5.0	3.2	0.0
30°	111.0	51.1	22.1	9.0	5.1	3.3	0.0
27.5°	128.9	56.5	24.1	9.4	5.2	3.4	0.0
25°	145.4	61.5	25.9	9.7	5.3	3.4	0.0
22.5°	160.4	66.0	27.6	10.0	5.3	3.5	0.0
20°	174.0	70.1	29.1	10.3	5.4	3.6	0.0
17.5°	186.0	73.7	30.4	10.5	5.4	3.6	0.0
15°	196.5	76.8	31.6	10.7	5.5	3.7	0.0
12.5°	205.4	79.5	32.5	10.9	5.5	3.7	0.0
10°	212.7	81.7	33.4	11.0	5.5	3.7	0.0
7.5°	218.4	83.4	34.0	11.2	5.6	3.8	0.0
5°	222.5	84.6	34.4	11.2	5.6	3.8	0.0
2.5°	225.0	85.4	34.7	11.3	5.6	3.8	0.0
0°	225.8	85.6	34.8	11.3	5.6	3.8	0.0
-2.5°	225.0	85.4	34.7	11.3	5.6	3.8	0.0
-5°	222.5	84.6	34.4	11.2	5.6	3.8	0.0
-7.5°	218.4	83.4	34.0	11.2	5.6	3.8	0.0
-10°	212.7	81.7	33.4	11.0	5.5	3.7	0.0
-12.5°	205.4	79.5	32.5	10.9	5.5	3.7	0.0
-15°	196.5	76.8	31.6	10.7	5.5	3.7	0.0
-17.5°	186.0	73.7	30.4	10.5	5.4	3.6	0.0
-20°	174.0	70.1	29.1	10.3	5.4	3.6	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	160.4	66.0	27.6	10.0	5.3	3.5	0.0
-25°	145.4	61.5	25.9	9.7	5.3	3.4	0.0
-27.5°	128.9	56.5	24.1	9.4	5.2	3.4	0.0
-30°	111.0	51.1	22.1	9.0	5.1	3.3	0.0
-32.5°	91.7	45.3	20.0	8.6	5.0	3.2	0.0
-35°	80.3	39.1	17.7	8.2	4.9	3.1	0.0
-37.5°	72.4	33.7	15.2	7.8	4.9	3.0	0.0
-40°	64.0	30.5	12.7	7.3	4.8	2.9	0.0
-42.5°	55.1	27.1	11.0	6.8	4.7	2.8	0.0
-45°	45.9	23.6	10.3	6.3	4.5	2.7	0.0
-47.5°	36.2	19.8	9.6	5.7	4.4	2.6	0.0
-50°	30.8	16.0	8.8	5.5	4.3	2.4	0.0
-52.5°	26.0	12.0	8.0	5.3	4.2	2.3	0.0
-55°	21.1	10.5	7.2	5.1	4.1	2.2	0.0
-57.5°	15.9	9.4	6.4	4.9	3.9	2.0	0.0
-60°	11.2	8.4	5.6	4.7	3.8	1.9	0.0
-62.5°	9.8	7.3	5.3	4.5	3.5	1.8	0.0
-65°	8.5	6.2	5.0	4.3	3.2	1.6	0.0
-67.5°	7.2	5.4	4.7	4.1	2.9	1.5	0.0
-70°	5.8	5.1	4.5	3.8	2.6	1.3	0.0
-72.5°	5.2	4.7	4.2	3.4	2.3	1.1	0.0
-75°	4.8	4.3	3.9	2.9	2.0	1.0	0.0
-77.5°	4.3	3.9	3.3	2.5	1.6	0.8	0.0
-80°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
-82.5°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
-85°	2.0	1.6	1.3	1.0	0.7	0.3	0.0
-87.5°	1.0	0.8	0.7	0.5	0.3	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)