

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: P1212187 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-57-70-4S-HEG**

Issue Date: 11/14/2025

Test Information

Test Method: LM-79-08
Report Number: P1212187 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/14/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: EPHESUS
Catalog Number: EPH-LS12-1000R-57-70-4S-HEG
Description: EPHESUS LS12 LUMINAIRE
(12) 5700K, 70 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

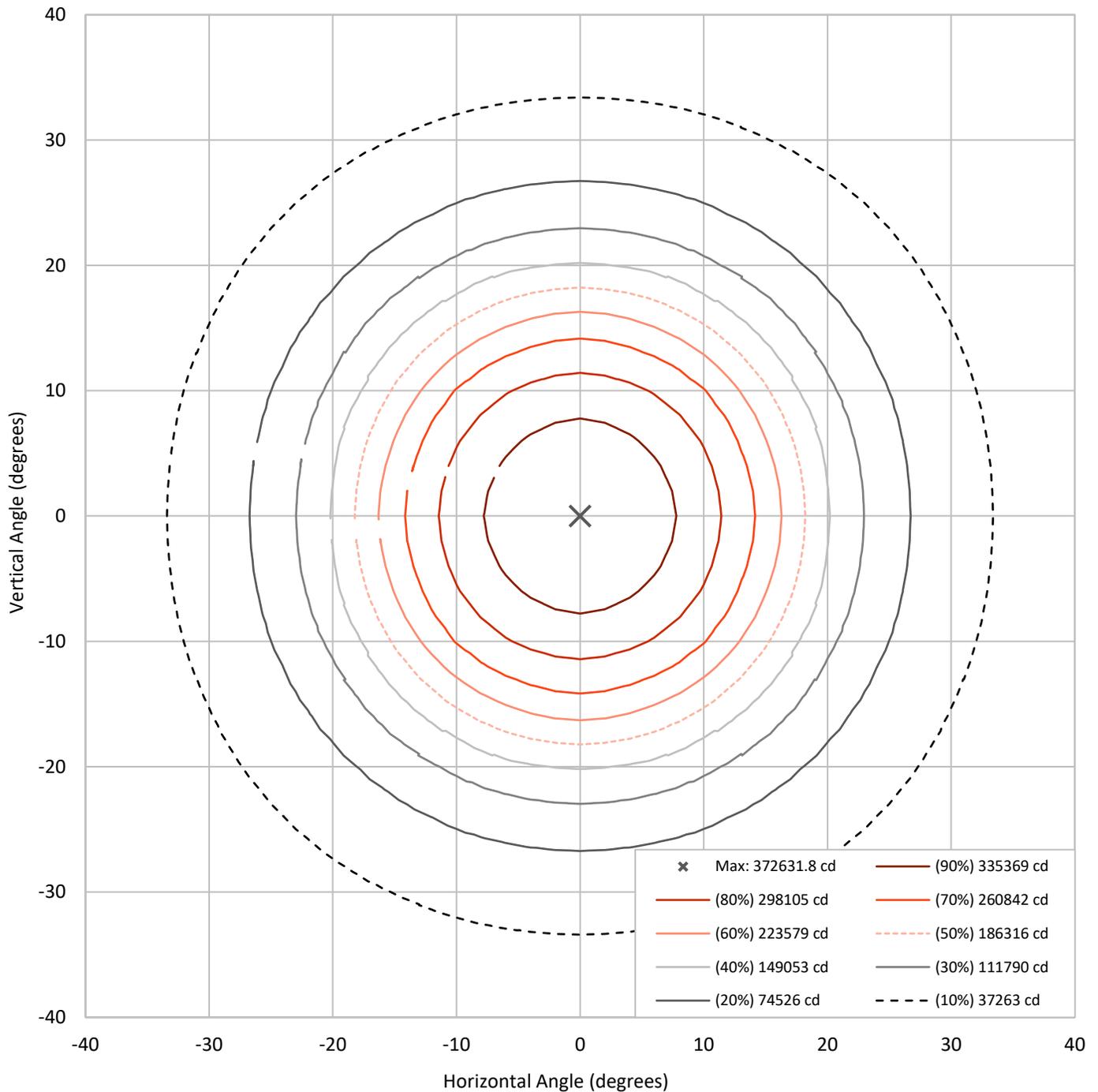
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	170117.4 lumens	Max Intensity:	372631.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	163.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	36.4°H x 36.4°V	Field Angle (10%):	66.7°H x 66.7°V
Beam Lumens:	86299.3 lumens	Field Lumens:	148968.8 lumens
Beam Efficiency:	50.7%	Field Efficiency:	87.6%

Input Watts (W): 1041
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-57-70-4S-HEG

Iso-Candela Plot





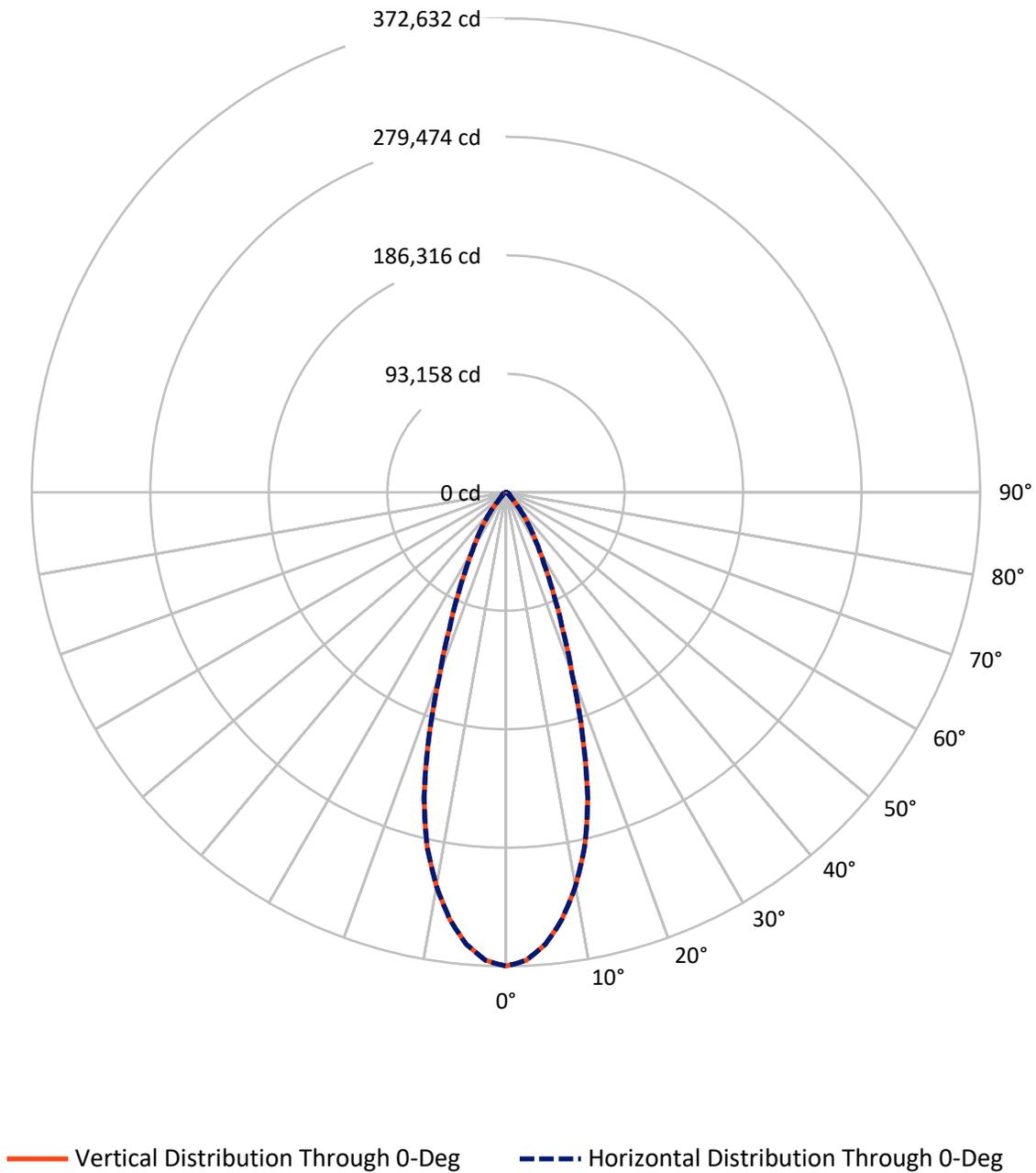
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Lumen Table

90	0.1	0.8		4.4		12.3		16.4		12.3		4.4		0.8		0.1
80	0.1	0.8		4.4		12.3		16.4		12.3		4.4		0.8		0.1
70	0.3	0.6	3.2	9.5	19.7	31.7	41.8	47.4	47.4	41.8	31.7	19.7	9.5	3.2	0.6	0.3
60		2.4	11.3	29.9	52.9	72.5	87.6	96.2	96.2	87.6	72.5	52.9	29.9	11.3	2.4	
50	1.6	5.9	24.5	52.6	81.3	114.9	160.2	204.8	204.8	160.2	114.9	81.3	52.6	24.5	5.9	1.6
40		10.5	37.3	70.3	122.9	306.3	656.0	920.0	920.0	656.0	306.3	122.9	70.3	37.3	10.5	
30	3.7	15.3	46.2	90.1	278.8	895.3	1791.7	2657.0	2657.0	1791.7	895.3	278.8	90.1	46.2	15.3	3.7
20		19.0	52.5	118.5	562.1	1687.3	4103.0	6798.5	6798.5	4103.0	1687.3	562.1	118.5	52.5	19.0	
10	4.7	20.8	56.0	147.8	764.8	2432.4	6607.5	10076.6	10076.6	6607.5	2432.4	764.8	147.8	56.0	20.8	4.7
0		20.8	56.0	147.8	764.8	2432.4	6607.5	10076.6	10076.6	6607.5	2432.4	764.8	147.8	56.0	20.8	
-10	3.7	19.0	52.5	118.5	562.1	1687.3	4103.0	6798.5	6798.5	4103.0	1687.3	562.1	118.5	52.5	19.0	3.7
-20		15.3	46.2	90.1	278.8	895.3	1791.7	2657.0	2657.0	1791.7	895.3	278.8	90.1	46.2	15.3	
-30	1.6	10.5	37.3	70.3	122.9	306.3	656.0	920.0	920.0	656.0	306.3	122.9	70.3	37.3	10.5	1.6
-40		5.9	24.5	52.6	81.3	114.9	160.2	204.8	204.8	160.2	114.9	81.3	52.6	24.5	5.9	
-50	0.3	2.4	11.3	29.9	52.9	72.5	87.6	96.2	96.2	87.6	72.5	52.9	29.9	11.3	2.4	0.3
-60		0.6	3.2	9.5	19.7	31.7	41.8	47.4	47.4	41.8	31.7	19.7	9.5	3.2	0.6	
-70	0.1	0.8		4.4		12.3		16.4		12.3		4.4		0.8		0.1
-80		0.8		4.4		12.3		16.4		12.3		4.4		0.8		
-90	0.1	0.8		4.4		12.3		16.4		12.3		4.4		0.8		0.1

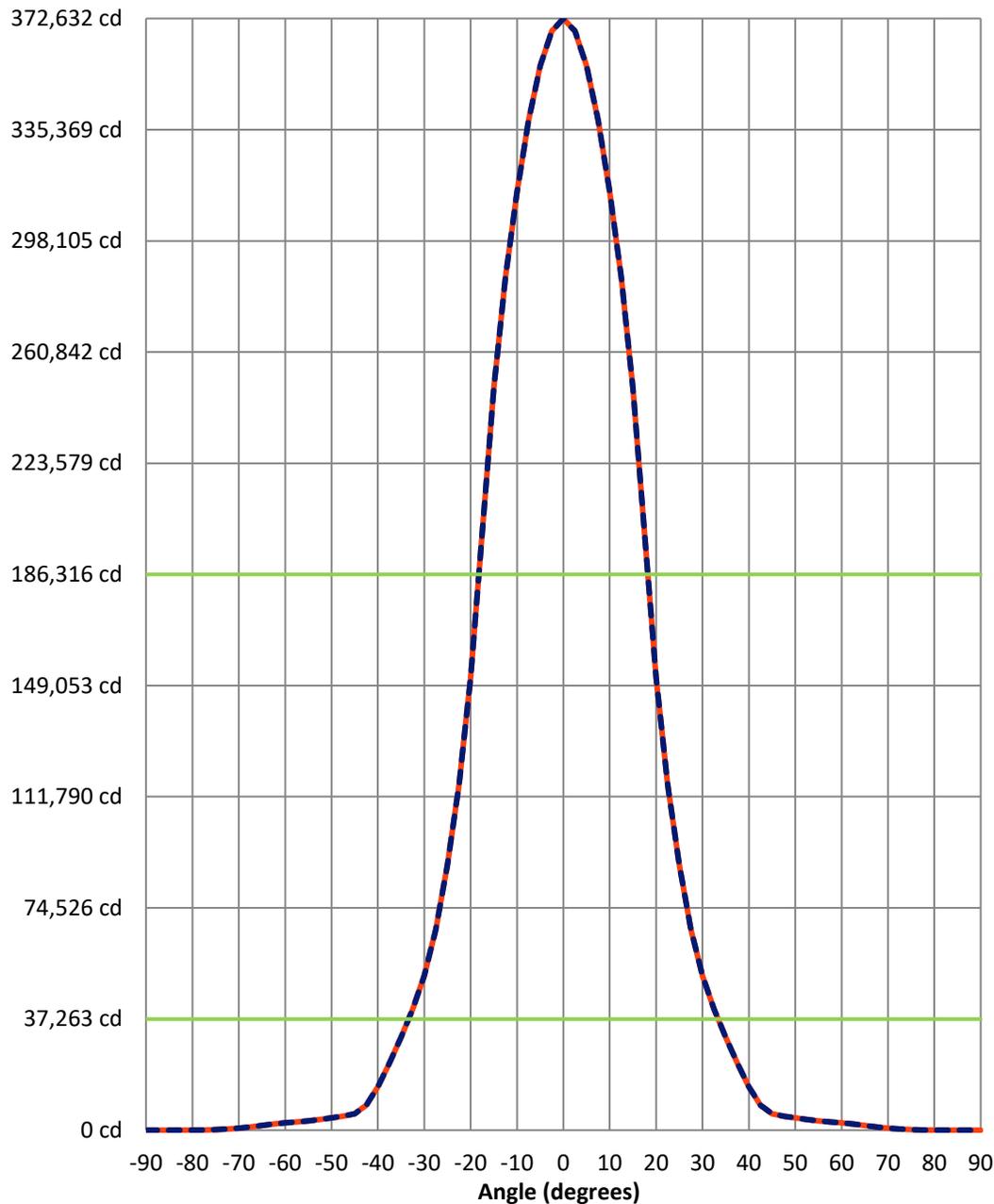
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 36.4°
 V Angle: 36.4°
 Lumens: 86299.3
 Efficiency: 50.7%

Field:
 H Angle: 66.7°
 V Angle: 66.7°
 Lumens: 148968.8
 Efficiency: 87.6%

Spill:
 Lumens: 21148.6
 Efficiency: 12.4%

- 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	0.3	0.5	0.8	1.1	1.3	1.6	1.8	2.1	2.3	2.6
85°	0.0	0.5	1.1	1.6	2.1	2.6	3.2	3.7	4.2	4.7	5.2
82.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.7	5.5	6.1	6.2	6.4
80°	0.0	1.1	2.1	3.2	4.2	5.3	6.1	6.3	6.5	6.6	6.8
77.5°	0.0	1.3	2.6	4.0	5.3	6.2	6.4	6.6	6.8	7.0	7.6
75°	0.0	1.6	3.2	4.7	6.1	6.4	6.6	6.9	7.3	8.5	9.7
72.5°	0.0	1.8	3.7	5.5	6.3	6.6	6.9	7.5	8.9	10.3	11.7
70°	0.0	2.1	4.2	6.1	6.5	6.8	7.3	8.9	10.5	12.3	19.3
67.5°	0.0	2.3	4.7	6.2	6.6	7.0	8.5	10.3	12.3	20.3	28.1
65°	0.0	2.6	5.2	6.4	6.8	7.6	9.7	11.7	19.3	28.1	40.0
62.5°	0.0	2.8	5.6	6.5	6.9	8.6	10.8	16.4	26.2	37.8	59.1
60°	0.0	3.0	6.1	6.6	7.1	9.5	12.0	22.3	32.9	54.7	77.8
57.5°	0.0	3.3	6.2	6.7	7.8	10.5	16.5	28.1	46.0	71.2	114.6
55°	0.0	3.5	6.2	6.8	8.5	11.4	21.3	33.7	60.3	92.6	159.1
52.5°	0.0	3.7	6.3	6.9	9.2	12.7	26.0	45.1	74.2	131.6	202.4
50°	0.0	3.9	6.4	7.0	9.9	16.5	30.5	57.0	93.6	169.5	269.1
47.5°	0.0	4.1	6.5	7.2	10.6	20.2	35.7	68.4	126.1	206.1	336.6
45°	0.0	4.3	6.5	7.7	11.2	23.7	45.1	79.4	157.4	264.0	401.6
42.5°	0.0	4.5	6.6	8.1	11.8	27.0	54.1	99.0	187.5	320.1	483.3
40°	0.0	4.7	6.6	8.6	13.4	30.2	62.7	124.1	222.3	373.8	564.5
37.5°	0.0	4.8	6.7	9.0	15.8	33.3	70.9	147.9	267.6	430.1	642.0
35°	0.0	5.0	6.7	9.4	18.1	38.5	78.7	170.5	310.5	495.9	729.0
32.5°	0.0	5.1	6.8	9.7	20.3	44.6	89.1	191.7	350.9	557.9	831.5
30°	0.0	5.3	6.8	10.1	22.3	50.2	106.1	214.6	388.7	616.0	927.6
27.5°	0.0	5.4	6.9	10.4	24.2	55.5	121.8	245.2	428.6	670.0	1017.1
25°	0.0	5.5	6.9	10.7	25.9	60.3	136.3	273.4	472.5	735.4	1100.3
22.5°	0.0	5.6	6.9	11.0	27.5	64.7	149.5	299.1	512.6	802.7	1190.7
20°	0.0	5.7	7.0	11.2	28.9	68.7	161.4	322.2	548.8	863.3	1272.3
17.5°	0.0	5.8	7.0	11.4	30.2	72.2	172.0	342.8	580.9	917.3	1344.8
15°	0.0	5.9	7.0	11.6	31.2	75.2	181.2	360.7	609.0	964.3	1408.2
12.5°	0.0	6.0	7.1	11.7	32.2	77.8	189.0	375.9	632.8	1004.4	1462.1
10°	0.0	6.0	7.1	11.9	32.9	80.0	195.4	388.4	652.4	1037.3	1506.4
7.5°	0.0	6.0	7.1	12.0	33.5	81.6	200.4	398.2	667.7	1063.0	1541.1
5°	0.0	6.1	7.1	12.0	34.0	82.8	204.0	405.2	678.6	1081.4	1565.9
2.5°	0.0	6.1	7.1	12.1	34.2	83.6	206.2	409.4	685.2	1092.5	1580.8
0°	0.0	6.1	7.1	12.1	34.3	83.8	206.9	410.8	687.4	1096.2	1585.8
-2.5°	0.0	6.1	7.1	12.1	34.2	83.6	206.2	409.4	685.2	1092.5	1580.8
-5°	0.0	6.1	7.1	12.0	34.0	82.8	204.0	405.2	678.6	1081.4	1565.9
-7.5°	0.0	6.0	7.1	12.0	33.5	81.6	200.4	398.2	667.7	1063.0	1541.1
-10°	0.0	6.0	7.1	11.9	32.9	80.0	195.4	388.4	652.4	1037.3	1506.4
-12.5°	0.0	6.0	7.1	11.7	32.2	77.8	189.0	375.9	632.8	1004.4	1462.1
-15°	0.0	5.9	7.0	11.6	31.2	75.2	181.2	360.7	609.0	964.3	1408.2
-17.5°	0.0	5.8	7.0	11.4	30.2	72.2	172.0	342.8	580.9	917.3	1344.8
-20°	0.0	5.7	7.0	11.2	28.9	68.7	161.4	322.2	548.8	863.3	1272.3



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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	5.6	6.9	11.0	27.5	64.7	149.5	299.1	512.6	802.7	1190.7
-25°	0.0	5.5	6.9	10.7	25.9	60.3	136.3	273.4	472.5	735.4	1100.3
-27.5°	0.0	5.4	6.9	10.4	24.2	55.5	121.8	245.2	428.6	670.0	1017.1
-30°	0.0	5.3	6.8	10.1	22.3	50.2	106.1	214.6	388.7	616.0	927.6
-32.5°	0.0	5.1	6.8	9.7	20.3	44.6	89.1	191.7	350.9	557.9	831.5
-35°	0.0	5.0	6.7	9.4	18.1	38.5	78.7	170.5	310.5	495.9	729.0
-37.5°	0.0	4.8	6.7	9.0	15.8	33.3	70.9	147.9	267.6	430.1	642.0
-40°	0.0	4.7	6.6	8.6	13.4	30.2	62.7	124.1	222.3	373.8	564.5
-42.5°	0.0	4.5	6.6	8.1	11.8	27.0	54.1	99.0	187.5	320.1	483.3
-45°	0.0	4.3	6.5	7.7	11.2	23.7	45.1	79.4	157.4	264.0	401.6
-47.5°	0.0	4.1	6.5	7.2	10.6	20.2	35.7	68.4	126.1	206.1	336.6
-50°	0.0	3.9	6.4	7.0	9.9	16.5	30.5	57.0	93.6	169.5	269.1
-52.5°	0.0	3.7	6.3	6.9	9.2	12.7	26.0	45.1	74.2	131.6	202.4
-55°	0.0	3.5	6.2	6.8	8.5	11.4	21.3	33.7	60.3	92.6	159.1
-57.5°	0.0	3.3	6.2	6.7	7.8	10.5	16.5	28.1	46.0	71.2	114.6
-60°	0.0	3.0	6.1	6.6	7.1	9.5	12.0	22.3	32.9	54.7	77.8
-62.5°	0.0	2.8	5.6	6.5	6.9	8.6	10.8	16.4	26.2	37.8	59.1
-65°	0.0	2.6	5.2	6.4	6.8	7.6	9.7	11.7	19.3	28.1	40.0
-67.5°	0.0	2.3	4.7	6.2	6.6	7.0	8.5	10.3	12.3	20.3	28.1
-70°	0.0	2.1	4.2	6.1	6.5	6.8	7.3	8.9	10.5	12.3	19.3
-72.5°	0.0	1.8	3.7	5.5	6.3	6.6	6.9	7.5	8.9	10.3	11.7
-75°	0.0	1.6	3.2	4.7	6.1	6.4	6.6	6.9	7.3	8.5	9.7
-77.5°	0.0	1.3	2.6	4.0	5.3	6.2	6.4	6.6	6.8	7.0	7.6
-80°	0.0	1.1	2.1	3.2	4.2	5.3	6.1	6.3	6.5	6.6	6.8
-82.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.7	5.5	6.1	6.2	6.4
-85°	0.0	0.5	1.1	1.6	2.1	2.6	3.2	3.7	4.2	4.7	5.2
-87.5°	0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.8	2.1	2.3	2.6
-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°	2.8	3.0	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.8
85°	5.6	6.1	6.2	6.2	6.3	6.4	6.5	6.5	6.6	6.6	6.7
82.5°	6.5	6.6	6.7	6.8	6.9	7.0	7.2	7.7	8.1	8.6	9.0
80°	6.9	7.1	7.8	8.5	9.2	9.9	10.6	11.2	11.8	13.4	15.8
77.5°	8.6	9.5	10.5	11.4	12.7	16.5	20.2	23.7	27.0	30.2	33.3
75°	10.8	12.0	16.5	21.3	26.0	30.5	35.7	45.1	54.1	62.7	70.9
72.5°	16.4	22.3	28.1	33.7	45.1	57.0	68.4	79.4	99.0	124.1	147.9
70°	26.2	32.9	46.0	60.3	74.2	93.6	126.1	157.4	187.5	222.3	267.6
67.5°	37.8	54.7	71.2	92.6	131.6	169.5	206.1	264.0	320.1	373.8	430.1
65°	59.1	77.8	114.6	159.1	202.4	269.1	336.6	401.6	483.3	564.5	642.0
62.5°	80.1	125.6	175.6	236.1	315.0	391.7	485.7	583.0	676.7	804.3	931.0
60°	125.6	181.2	254.5	342.8	435.2	548.8	658.9	802.7	954.2	1100.3	1266.7
57.5°	175.6	254.5	352.0	460.6	586.9	720.8	897.4	1068.3	1260.1	1449.7	1632.3
55°	236.1	342.8	460.6	599.7	758.8	954.7	1154.8	1375.8	1589.2	1800.3	2002.5
52.5°	315.0	435.2	586.9	758.8	973.9	1201.1	1445.7	1685.9	1921.9	2136.5	2307.8
50°	391.7	548.8	720.8	954.7	1201.1	1469.2	1734.5	1995.6	2214.3	2405.9	2563.7
47.5°	485.7	658.9	897.4	1154.8	1445.7	1734.5	2020.3	2253.5	2465.3	2623.7	2771.4
45°	583.0	802.7	1068.3	1375.8	1685.9	1995.6	2253.5	2485.2	2654.0	2823.9	3010.8
42.5°	676.7	954.2	1260.1	1589.2	1921.9	2214.3	2465.3	2654.0	2842.2	3047.9	3283.3
40°	804.3	1100.3	1449.7	1800.3	2136.5	2405.9	2623.7	2823.9	3047.9	3308.4	3587.9
37.5°	931.0	1266.7	1632.3	2002.5	2307.8	2563.7	2771.4	3010.8	3283.3	3587.9	3935.0
35°	1051.2	1424.9	1809.9	2172.5	2471.3	2695.6	2937.2	3208.3	3536.7	3904.0	4272.8
32.5°	1178.3	1574.4	1977.9	2315.9	2591.1	2828.2	3096.9	3435.2	3811.5	4209.4	4597.7
30°	1306.0	1718.6	2126.0	2451.0	2700.9	2968.8	3285.4	3659.4	4084.0	4500.7	5004.8
27.5°	1424.9	1853.3	2241.9	2554.3	2807.7	3100.6	3473.8	3899.2	4341.4	4809.0	5442.2
25°	1534.7	1977.9	2349.2	2642.1	2920.8	3252.2	3658.1	4122.9	4582.2	5193.0	6656.0
22.5°	1636.6	2091.5	2447.5	2722.6	3024.8	3401.8	3849.6	4329.8	4851.9	5591.1	7995.9
20°	1729.9	2172.5	2523.7	2798.1	3119.2	3537.8	4023.9	4518.5	5154.8	6734.4	10146.9
17.5°	1813.1	2244.7	2583.3	2875.5	3226.1	3670.1	4180.3	4688.1	5427.4	7765.7	12524.4
15°	1885.7	2307.8	2635.3	2943.2	3324.2	3796.5	4317.9	4899.8	6006.2	8974.2	14650.4
12.5°	1947.5	2361.6	2679.8	3001.0	3408.1	3904.7	4435.7	5090.3	6730.0	10651.2	17005.4
10°	1998.4	2405.9	2716.4	3048.6	3477.3	3994.0	4533.2	5247.9	7330.4	12044.6	18966.6
7.5°	2038.1	2440.5	2745.0	3085.9	3531.5	4064.1	4609.7	5371.8	7802.5	13142.3	20514.3
5°	2066.6	2465.3	2765.5	3112.7	3570.4	4114.4	4664.7	5460.9	8142.6	13934.0	21632.2
2.5°	2083.8	2480.2	2777.9	3128.8	3593.8	4144.7	4697.8	5514.6	8347.9	14412.1	22308.1
0°	2089.5	2485.2	2782.0	3134.2	3601.6	4154.8	4708.9	5532.6	8416.5	14572.0	22534.3
-2.5°	2083.8	2480.2	2777.9	3128.8	3593.8	4144.7	4697.8	5514.6	8347.9	14412.1	22308.1
-5°	2066.6	2465.3	2765.5	3112.7	3570.4	4114.4	4664.7	5460.9	8142.6	13934.0	21632.2
-7.5°	2038.1	2440.5	2745.0	3085.9	3531.5	4064.1	4609.7	5371.8	7802.5	13142.3	20514.3
-10°	1998.4	2405.9	2716.4	3048.6	3477.3	3994.0	4533.2	5247.9	7330.4	12044.6	18966.6
-12.5°	1947.5	2361.6	2679.8	3001.0	3408.1	3904.7	4435.7	5090.3	6730.0	10651.2	17005.4
-15°	1885.7	2307.8	2635.3	2943.2	3324.2	3796.5	4317.9	4899.8	6006.2	8974.2	14650.4
-17.5°	1813.1	2244.7	2583.3	2875.5	3226.1	3670.1	4180.3	4688.1	5427.4	7765.7	12524.4
-20°	1729.9	2172.5	2523.7	2798.1	3119.2	3537.8	4023.9	4518.5	5154.8	6734.4	10146.9



REPORT NUMBER: P1212187 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1636.6	2091.5	2447.5	2722.6	3024.8	3401.8	3849.6	4329.8	4851.9	5591.1	7995.9
-25°	1534.7	1977.9	2349.2	2642.1	2920.8	3252.2	3658.1	4122.9	4582.2	5193.0	6656.0
-27.5°	1424.9	1853.3	2241.9	2554.3	2807.7	3100.6	3473.8	3899.2	4341.4	4809.0	5442.2
-30°	1306.0	1718.6	2126.0	2451.0	2700.9	2968.8	3285.4	3659.4	4084.0	4500.7	5004.8
-32.5°	1178.3	1574.4	1977.9	2315.9	2591.1	2828.2	3096.9	3435.2	3811.5	4209.4	4597.7
-35°	1051.2	1424.9	1809.9	2172.5	2471.3	2695.6	2937.2	3208.3	3536.7	3904.0	4272.8
-37.5°	931.0	1266.7	1632.3	2002.5	2307.8	2563.7	2771.4	3010.8	3283.3	3587.9	3935.0
-40°	804.3	1100.3	1449.7	1800.3	2136.5	2405.9	2623.7	2823.9	3047.9	3308.4	3587.9
-42.5°	676.7	954.2	1260.1	1589.2	1921.9	2214.3	2465.3	2654.0	2842.2	3047.9	3283.3
-45°	583.0	802.7	1068.3	1375.8	1685.9	1995.6	2253.5	2485.2	2654.0	2823.9	3010.8
-47.5°	485.7	658.9	897.4	1154.8	1445.7	1734.5	2020.3	2253.5	2465.3	2623.7	2771.4
-50°	391.7	548.8	720.8	954.7	1201.1	1469.2	1734.5	1995.6	2214.3	2405.9	2563.7
-52.5°	315.0	435.2	586.9	758.8	973.9	1201.1	1445.7	1685.9	1921.9	2136.5	2307.8
-55°	236.1	342.8	460.6	599.7	758.8	954.7	1154.8	1375.8	1589.2	1800.3	2002.5
-57.5°	175.6	254.5	352.0	460.6	586.9	720.8	897.4	1068.3	1260.1	1449.7	1632.3
-60°	125.6	181.2	254.5	342.8	435.2	548.8	658.9	802.7	954.2	1100.3	1266.7
-62.5°	80.1	125.6	175.6	236.1	315.0	391.7	485.7	583.0	676.7	804.3	931.0
-65°	59.1	77.8	114.6	159.1	202.4	269.1	336.6	401.6	483.3	564.5	642.0
-67.5°	37.8	54.7	71.2	92.6	131.6	169.5	206.1	264.0	320.1	373.8	430.1
-70°	26.2	32.9	46.0	60.3	74.2	93.6	126.1	157.4	187.5	222.3	267.6
-72.5°	16.4	22.3	28.1	33.7	45.1	57.0	68.4	79.4	99.0	124.1	147.9
-75°	10.8	12.0	16.5	21.3	26.0	30.5	35.7	45.1	54.1	62.7	70.9
-77.5°	8.6	9.5	10.5	11.4	12.7	16.5	20.2	23.7	27.0	30.2	33.3
-80°	6.9	7.1	7.8	8.5	9.2	9.9	10.6	11.2	11.8	13.4	15.8
-82.5°	6.5	6.6	6.7	6.8	6.9	7.0	7.2	7.7	8.1	8.6	9.0
-85°	5.6	6.1	6.2	6.2	6.3	6.4	6.5	6.5	6.6	6.6	6.7
-87.5°	2.8	3.0	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1212187 (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°	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0
85°	6.7	6.8	6.8	6.9	6.9	6.9	7.0	7.0	7.0	7.1	7.1
82.5°	9.4	9.7	10.1	10.4	10.7	11.0	11.2	11.4	11.6	11.7	11.9
80°	18.1	20.3	22.3	24.2	25.9	27.5	28.9	30.2	31.2	32.2	32.9
77.5°	38.5	44.6	50.2	55.5	60.3	64.7	68.7	72.2	75.2	77.8	80.0
75°	78.7	89.1	106.1	121.8	136.3	149.5	161.4	172.0	181.2	189.0	195.4
72.5°	170.5	191.7	214.6	245.2	273.4	299.1	322.2	342.8	360.7	375.9	388.4
70°	310.5	350.9	388.7	428.6	472.5	512.6	548.8	580.9	609.0	632.8	652.4
67.5°	495.9	557.9	616.0	670.0	735.4	802.7	863.3	917.3	964.3	1004.4	1037.3
65°	729.0	831.5	927.6	1017.1	1100.3	1190.7	1272.3	1344.8	1408.2	1462.1	1506.4
62.5°	1051.2	1178.3	1306.0	1424.9	1534.7	1636.6	1729.9	1813.1	1885.7	1947.5	1998.4
60°	1424.9	1574.4	1718.6	1853.3	1977.9	2091.5	2172.5	2244.7	2307.8	2361.6	2405.9
57.5°	1809.9	1977.9	2126.0	2241.9	2349.2	2447.5	2523.7	2583.3	2635.3	2679.8	2716.4
55°	2172.5	2315.9	2451.0	2554.3	2642.1	2722.6	2798.1	2875.5	2943.2	3001.0	3048.6
52.5°	2471.3	2591.1	2700.9	2807.7	2920.8	3024.8	3119.2	3226.1	3324.2	3408.1	3477.3
50°	2695.6	2828.2	2968.8	3100.6	3252.2	3401.8	3537.8	3670.1	3796.5	3904.7	3994.0
47.5°	2937.2	3096.9	3285.4	3473.8	3658.1	3849.6	4023.9	4180.3	4317.9	4435.7	4533.2
45°	3208.3	3435.2	3659.4	3899.2	4122.9	4329.8	4518.5	4688.1	4899.8	5090.3	5247.9
42.5°	3536.7	3811.5	4084.0	4341.4	4582.2	4851.9	5154.8	5427.4	6006.2	6730.0	7330.4
40°	3904.0	4209.4	4500.7	4809.0	5193.0	5591.1	6734.4	7765.7	8974.2	10651.2	12044.6
37.5°	4272.8	4597.7	5004.8	5442.2	6656.0	7995.9	10146.9	12524.4	14650.4	17005.4	18966.6
35°	4630.2	5103.8	5747.9	7380.4	9491.5	12559.7	15627.9	18948.6	21902.3	24623.1	26939.5
32.5°	5103.8	5926.6	7747.2	10696.1	14205.6	18351.4	22287.3	26154.5	29625.4	32768.6	35512.3
30°	5747.9	7747.2	11101.2	15177.7	20018.5	24744.6	29333.6	33734.8	37821.9	41557.8	45156.6
27.5°	7380.4	10696.1	15177.7	20579.9	26004.1	31295.9	36650.8	41780.1	47103.3	51772.5	57227.5
25°	9491.5	14205.6	20018.5	26004.1	32011.0	38137.1	44556.5	50937.6	58619.4	65688.9	73373.9
22.5°	12559.7	18351.4	24744.6	31295.9	38137.1	45495.1	53325.2	62870.8	73220.3	83972.4	94181.2
20°	15627.9	22287.3	29333.6	36650.8	44556.5	53325.2	64312.7	77430.3	90985.0	105633.9	119137.4
17.5°	18948.6	26154.5	33734.8	41780.1	50937.6	62870.8	77430.3	93785.0	111571.4	131769.2	150686.4
15°	21902.3	29625.4	37821.9	47103.3	58619.4	73220.3	90985.0	111571.4	136101.9	162803.9	191321.7
12.5°	24623.1	32768.6	41557.8	51772.5	65688.9	83972.4	105633.9	131769.2	162803.9	198248.1	230143.1
10°	26939.5	35512.3	45156.6	57227.5	73373.9	94181.2	119137.4	150686.4	191321.7	230143.1	263006.7
7.5°	28771.7	37688.5	48020.8	61593.7	80073.1	103415.2	133000.6	171346.8	215176.1	255939.4	286066.7
5°	30097.5	39266.8	50103.7	64779.8	84983.4	110222.8	143300.2	187151.1	233327.8	272748.2	301762.0
2.5°	30900.1	40223.7	51368.9	66720.0	87983.1	114399.3	149655.7	196983.4	244756.5	282605.3	311179.8
0°	31168.8	40544.3	51793.3	67371.6	88992.3	115807.5	151805.4	200324.1	248666.2	285768.9	314460.1
-2.5°	30900.1	40223.7	51368.9	66720.0	87983.1	114399.3	149655.7	196983.4	244756.5	282605.3	311179.8
-5°	30097.5	39266.8	50103.7	64779.8	84983.4	110222.8	143300.2	187151.1	233327.8	272748.2	301762.0
-7.5°	28771.7	37688.5	48020.8	61593.7	80073.1	103415.2	133000.6	171346.8	215176.1	255939.4	286066.7
-10°	26939.5	35512.3	45156.6	57227.5	73373.9	94181.2	119137.4	150686.4	191321.7	230143.1	263006.7
-12.5°	24623.1	32768.6	41557.8	51772.5	65688.9	83972.4	105633.9	131769.2	162803.9	198248.1	230143.1
-15°	21902.3	29625.4	37821.9	47103.3	58619.4	73220.3	90985.0	111571.4	136101.9	162803.9	191321.7
-17.5°	18948.6	26154.5	33734.8	41780.1	50937.6	62870.8	77430.3	93785.0	111571.4	131769.2	150686.4
-20°	15627.9	22287.3	29333.6	36650.8	44556.5	53325.2	64312.7	77430.3	90985.0	105633.9	119137.4



REPORT NUMBER: P1212187 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	12559.7	18351.4	24744.6	31295.9	38137.1	45495.1	53325.2	62870.8	73220.3	83972.4	94181.2
-25°	9491.5	14205.6	20018.5	26004.1	32011.0	38137.1	44556.5	50937.6	58619.4	65688.9	73373.9
-27.5°	7380.4	10696.1	15177.7	20579.9	26004.1	31295.9	36650.8	41780.1	47103.3	51772.5	57227.5
-30°	5747.9	7747.2	11101.2	15177.7	20018.5	24744.6	29333.6	33734.8	37821.9	41557.8	45156.6
-32.5°	5103.8	5926.6	7747.2	10696.1	14205.6	18351.4	22287.3	26154.5	29625.4	32768.6	35512.3
-35°	4630.2	5103.8	5747.9	7380.4	9491.5	12559.7	15627.9	18948.6	21902.3	24623.1	26939.5
-37.5°	4272.8	4597.7	5004.8	5442.2	6656.0	7995.9	10146.9	12524.4	14650.4	17005.4	18966.6
-40°	3904.0	4209.4	4500.7	4809.0	5193.0	5591.1	6734.4	7765.7	8974.2	10651.2	12044.6
-42.5°	3536.7	3811.5	4084.0	4341.4	4582.2	4851.9	5154.8	5427.4	6006.2	6730.0	7330.4
-45°	3208.3	3435.2	3659.4	3899.2	4122.9	4329.8	4518.5	4688.1	4899.8	5090.3	5247.9
-47.5°	2937.2	3096.9	3285.4	3473.8	3658.1	3849.6	4023.9	4180.3	4317.9	4435.7	4533.2
-50°	2695.6	2828.2	2968.8	3100.6	3252.2	3401.8	3537.8	3670.1	3796.5	3904.7	3994.0
-52.5°	2471.3	2591.1	2700.9	2807.7	2920.8	3024.8	3119.2	3226.1	3324.2	3408.1	3477.3
-55°	2172.5	2315.9	2451.0	2554.3	2642.1	2722.6	2798.1	2875.5	2943.2	3001.0	3048.6
-57.5°	1809.9	1977.9	2126.0	2241.9	2349.2	2447.5	2523.7	2583.3	2635.3	2679.8	2716.4
-60°	1424.9	1574.4	1718.6	1853.3	1977.9	2091.5	2172.5	2244.7	2307.8	2361.6	2405.9
-62.5°	1051.2	1178.3	1306.0	1424.9	1534.7	1636.6	1729.9	1813.1	1885.7	1947.5	1998.4
-65°	729.0	831.5	927.6	1017.1	1100.3	1190.7	1272.3	1344.8	1408.2	1462.1	1506.4
-67.5°	495.9	557.9	616.0	670.0	735.4	802.7	863.3	917.3	964.3	1004.4	1037.3
-70°	310.5	350.9	388.7	428.6	472.5	512.6	548.8	580.9	609.0	632.8	652.4
-72.5°	170.5	191.7	214.6	245.2	273.4	299.1	322.2	342.8	360.7	375.9	388.4
-75°	78.7	89.1	106.1	121.8	136.3	149.5	161.4	172.0	181.2	189.0	195.4
-77.5°	38.5	44.6	50.2	55.5	60.3	64.7	68.7	72.2	75.2	77.8	80.0
-80°	18.1	20.3	22.3	24.2	25.9	27.5	28.9	30.2	31.2	32.2	32.9
-82.5°	9.4	9.7	10.1	10.4	10.7	11.0	11.2	11.4	11.6	11.7	11.9
-85°	6.7	6.8	6.8	6.9	6.9	6.9	7.0	7.0	7.0	7.1	7.1
-87.5°	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0
-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: P1212187 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-100R-57-70-4S-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°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	6.0	5.9	5.8
85°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.0	7.0
82.5°	12.0	12.0	12.1	12.1	12.1	12.0	12.0	11.9	11.7	11.6	11.4
80°	33.5	34.0	34.2	34.3	34.2	34.0	33.5	32.9	32.2	31.2	30.2
77.5°	81.6	82.8	83.6	83.8	83.6	82.8	81.6	80.0	77.8	75.2	72.2
75°	200.4	204.0	206.2	206.9	206.2	204.0	200.4	195.4	189.0	181.2	172.0
72.5°	398.2	405.2	409.4	410.8	409.4	405.2	398.2	388.4	375.9	360.7	342.8
70°	667.7	678.6	685.2	687.4	685.2	678.6	667.7	652.4	632.8	609.0	580.9
67.5°	1063.0	1081.4	1092.5	1096.2	1092.5	1081.4	1063.0	1037.3	1004.4	964.3	917.3
65°	1541.1	1565.9	1580.8	1585.8	1580.8	1565.9	1541.1	1506.4	1462.1	1408.2	1344.8
62.5°	2038.1	2066.6	2083.8	2089.5	2083.8	2066.6	2038.1	1998.4	1947.5	1885.7	1813.1
60°	2440.5	2465.3	2480.2	2485.2	2480.2	2465.3	2440.5	2405.9	2361.6	2307.8	2244.7
57.5°	2745.0	2765.5	2777.9	2782.0	2777.9	2765.5	2745.0	2716.4	2679.8	2635.3	2583.3
55°	3085.9	3112.7	3128.8	3134.2	3128.8	3112.7	3085.9	3048.6	3001.0	2943.2	2875.5
52.5°	3531.5	3570.4	3593.8	3601.6	3593.8	3570.4	3531.5	3477.3	3408.1	3324.2	3226.1
50°	4064.1	4114.4	4144.7	4154.8	4144.7	4114.4	4064.1	3994.0	3904.7	3796.5	3670.1
47.5°	4609.7	4664.7	4697.8	4708.9	4697.8	4664.7	4609.7	4533.2	4435.7	4317.9	4180.3
45°	5371.8	5460.9	5514.6	5532.6	5514.6	5460.9	5371.8	5247.9	5090.3	4899.8	4688.1
42.5°	7802.5	8142.6	8347.9	8416.5	8347.9	8142.6	7802.5	7330.4	6730.0	6006.2	5427.4
40°	13142.3	13934.0	14412.1	14572.0	14412.1	13934.0	13142.3	12044.6	10651.2	8974.2	7765.7
37.5°	20514.3	21632.2	22308.1	22534.3	22308.1	21632.2	20514.3	18966.6	17005.4	14650.4	12524.4
35°	28771.7	30097.5	30900.1	31168.8	30900.1	30097.5	28771.7	26939.5	24623.1	21902.3	18948.6
32.5°	37688.5	39266.8	40223.7	40544.3	40223.7	39266.8	37688.5	35512.3	32768.6	29625.4	26154.5
30°	48020.8	50103.7	51368.9	51793.3	51368.9	50103.7	48020.8	45156.6	41557.8	37821.9	33734.8
27.5°	61593.7	64779.8	66720.0	67371.6	66720.0	64779.8	61593.7	57227.5	51772.5	47103.3	41780.1
25°	80073.1	84983.4	87983.1	88992.3	87983.1	84983.4	80073.1	73373.9	65688.9	58619.4	50937.6
22.5°	103415.2	110222.8	114399.3	115807.5	114399.3	110222.8	103415.2	94181.2	83972.4	73220.3	62870.8
20°	133000.6	143300.2	149655.7	151805.4	149655.7	143300.2	133000.6	119137.4	105633.9	90985.0	77430.3
17.5°	171346.8	187151.1	196983.4	200324.1	196983.4	187151.1	171346.8	150686.4	131769.2	111571.4	93785.0
15°	215176.1	233327.8	244756.5	248666.2	244756.5	233327.8	215176.1	191321.7	162803.9	136101.9	111571.4
12.5°	255939.4	272748.2	282605.3	285768.9	282605.3	272748.2	255939.4	230143.1	198248.1	162803.9	131769.2
10°	286066.7	301762.0	311179.8	314460.1	311179.8	301762.0	286066.7	263006.7	230143.1	191321.7	150686.4
7.5°	308092.7	324405.0	335034.1	338518.0	335034.1	324405.0	308092.7	286066.7	255939.4	215176.1	171346.8
5°	324405.0	342260.9	352994.6	356737.5	352994.6	342260.9	324405.0	301762.0	272748.2	233327.8	187151.1
2.5°	335034.1	352994.6	364584.9	368374.7	364584.9	352994.6	335034.1	311179.8	282605.3	244756.5	196983.4
0°	338518.0	356737.5	368374.7	372631.8	368374.7	356737.5	338518.0	314460.1	285768.9	248666.2	200324.1
-2.5°	335034.1	352994.6	364584.9	368374.7	364584.9	352994.6	335034.1	311179.8	282605.3	244756.5	196983.4
-5°	324405.0	342260.9	352994.6	356737.5	352994.6	342260.9	324405.0	301762.0	272748.2	233327.8	187151.1
-7.5°	308092.7	324405.0	335034.1	338518.0	335034.1	324405.0	308092.7	286066.7	255939.4	215176.1	171346.8
-10°	286066.7	301762.0	311179.8	314460.1	311179.8	301762.0	286066.7	263006.7	230143.1	191321.7	150686.4
-12.5°	255939.4	272748.2	282605.3	285768.9	282605.3	272748.2	255939.4	230143.1	198248.1	162803.9	131769.2
-15°	215176.1	233327.8	244756.5	248666.2	244756.5	233327.8	215176.1	191321.7	162803.9	136101.9	111571.4
-17.5°	171346.8	187151.1	196983.4	200324.1	196983.4	187151.1	171346.8	150686.4	131769.2	111571.4	93785.0
-20°	133000.6	143300.2	149655.7	151805.4	149655.7	143300.2	133000.6	119137.4	105633.9	90985.0	77430.3



REPORT NUMBER: P1212187 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	103415.2	110222.8	114399.3	115807.5	114399.3	110222.8	103415.2	94181.2	83972.4	73220.3	62870.8
-25°	80073.1	84983.4	87983.1	88992.3	87983.1	84983.4	80073.1	73373.9	65688.9	58619.4	50937.6
-27.5°	61593.7	64779.8	66720.0	67371.6	66720.0	64779.8	61593.7	57227.5	51772.5	47103.3	41780.1
-30°	48020.8	50103.7	51368.9	51793.3	51368.9	50103.7	48020.8	45156.6	41557.8	37821.9	33734.8
-32.5°	37688.5	39266.8	40223.7	40544.3	40223.7	39266.8	37688.5	35512.3	32768.6	29625.4	26154.5
-35°	28771.7	30097.5	30900.1	31168.8	30900.1	30097.5	28771.7	26939.5	24623.1	21902.3	18948.6
-37.5°	20514.3	21632.2	22308.1	22534.3	22308.1	21632.2	20514.3	18966.6	17005.4	14650.4	12524.4
-40°	13142.3	13934.0	14412.1	14572.0	14412.1	13934.0	13142.3	12044.6	10651.2	8974.2	7765.7
-42.5°	7802.5	8142.6	8347.9	8416.5	8347.9	8142.6	7802.5	7330.4	6730.0	6006.2	5427.4
-45°	5371.8	5460.9	5514.6	5532.6	5514.6	5460.9	5371.8	5247.9	5090.3	4899.8	4688.1
-47.5°	4609.7	4664.7	4697.8	4708.9	4697.8	4664.7	4609.7	4533.2	4435.7	4317.9	4180.3
-50°	4064.1	4114.4	4144.7	4154.8	4144.7	4114.4	4064.1	3994.0	3904.7	3796.5	3670.1
-52.5°	3531.5	3570.4	3593.8	3601.6	3593.8	3570.4	3531.5	3477.3	3408.1	3324.2	3226.1
-55°	3085.9	3112.7	3128.8	3134.2	3128.8	3112.7	3085.9	3048.6	3001.0	2943.2	2875.5
-57.5°	2745.0	2765.5	2777.9	2782.0	2777.9	2765.5	2745.0	2716.4	2679.8	2635.3	2583.3
-60°	2440.5	2465.3	2480.2	2485.2	2480.2	2465.3	2440.5	2405.9	2361.6	2307.8	2244.7
-62.5°	2038.1	2066.6	2083.8	2089.5	2083.8	2066.6	2038.1	1998.4	1947.5	1885.7	1813.1
-65°	1541.1	1565.9	1580.8	1585.8	1580.8	1565.9	1541.1	1506.4	1462.1	1408.2	1344.8
-67.5°	1063.0	1081.4	1092.5	1096.2	1092.5	1081.4	1063.0	1037.3	1004.4	964.3	917.3
-70°	667.7	678.6	685.2	687.4	685.2	678.6	667.7	652.4	632.8	609.0	580.9
-72.5°	398.2	405.2	409.4	410.8	409.4	405.2	398.2	388.4	375.9	360.7	342.8
-75°	200.4	204.0	206.2	206.9	206.2	204.0	200.4	195.4	189.0	181.2	172.0
-77.5°	81.6	82.8	83.6	83.8	83.6	82.8	81.6	80.0	77.8	75.2	72.2
-80°	33.5	34.0	34.2	34.3	34.2	34.0	33.5	32.9	32.2	31.2	30.2
-82.5°	12.0	12.0	12.1	12.1	12.1	12.0	12.0	11.9	11.7	11.6	11.4
-85°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.0	7.0
-87.5°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	6.0	5.9	5.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1212187 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	5.6	5.5	5.4	5.3	5.1	5.0	4.8	4.7	4.5	4.3
85°	7.0	6.9	6.9	6.9	6.8	6.8	6.7	6.7	6.6	6.6	6.5
82.5°	11.2	11.0	10.7	10.4	10.1	9.7	9.4	9.0	8.6	8.1	7.7
80°	28.9	27.5	25.9	24.2	22.3	20.3	18.1	15.8	13.4	11.8	11.2
77.5°	68.7	64.7	60.3	55.5	50.2	44.6	38.5	33.3	30.2	27.0	23.7
75°	161.4	149.5	136.3	121.8	106.1	89.1	78.7	70.9	62.7	54.1	45.1
72.5°	322.2	299.1	273.4	245.2	214.6	191.7	170.5	147.9	124.1	99.0	79.4
70°	548.8	512.6	472.5	428.6	388.7	350.9	310.5	267.6	222.3	187.5	157.4
67.5°	863.3	802.7	735.4	670.0	616.0	557.9	495.9	430.1	373.8	320.1	264.0
65°	1272.3	1190.7	1100.3	1017.1	927.6	831.5	729.0	642.0	564.5	483.3	401.6
62.5°	1729.9	1636.6	1534.7	1424.9	1306.0	1178.3	1051.2	931.0	804.3	676.7	583.0
60°	2172.5	2091.5	1977.9	1853.3	1718.6	1574.4	1424.9	1266.7	1100.3	954.2	802.7
57.5°	2523.7	2447.5	2349.2	2241.9	2126.0	1977.9	1809.9	1632.3	1449.7	1260.1	1068.3
55°	2798.1	2722.6	2642.1	2554.3	2451.0	2315.9	2172.5	2002.5	1800.3	1589.2	1375.8
52.5°	3119.2	3024.8	2920.8	2807.7	2700.9	2591.1	2471.3	2307.8	2136.5	1921.9	1685.9
50°	3537.8	3401.8	3252.2	3100.6	2968.8	2828.2	2695.6	2563.7	2405.9	2214.3	1995.6
47.5°	4023.9	3849.6	3658.1	3473.8	3285.4	3096.9	2937.2	2771.4	2623.7	2465.3	2253.5
45°	4518.5	4329.8	4122.9	3899.2	3659.4	3435.2	3208.3	3010.8	2823.9	2654.0	2485.2
42.5°	5154.8	4851.9	4582.2	4341.4	4084.0	3811.5	3536.7	3283.3	3047.9	2842.2	2654.0
40°	6734.4	5591.1	5193.0	4809.0	4500.7	4209.4	3904.0	3587.9	3308.4	3047.9	2823.9
37.5°	10146.9	7995.9	6656.0	5442.2	5004.8	4597.7	4272.8	3935.0	3587.9	3283.3	3010.8
35°	15627.9	12559.7	9491.5	7380.4	5747.9	5103.8	4630.2	4272.8	3904.0	3536.7	3208.3
32.5°	22287.3	18351.4	14205.6	10696.1	7747.2	5926.6	5103.8	4597.7	4209.4	3811.5	3435.2
30°	29333.6	24744.6	20018.5	15177.7	11101.2	7747.2	5747.9	5004.8	4500.7	4084.0	3659.4
27.5°	36650.8	31295.9	26004.1	20579.9	15177.7	10696.1	7380.4	5442.2	4809.0	4341.4	3899.2
25°	44556.5	38137.1	32011.0	26004.1	20018.5	14205.6	9491.5	6656.0	5193.0	4582.2	4122.9
22.5°	53325.2	45495.1	38137.1	31295.9	24744.6	18351.4	12559.7	7995.9	5591.1	4851.9	4329.8
20°	64312.7	53325.2	44556.5	36650.8	29333.6	22287.3	15627.9	10146.9	6734.4	5154.8	4518.5
17.5°	77430.3	62870.8	50937.6	41780.1	33734.8	26154.5	18948.6	12524.4	7765.7	5427.4	4688.1
15°	90985.0	73220.3	58619.4	47103.3	37821.9	29625.4	21902.3	14650.4	8974.2	6006.2	4899.8
12.5°	105633.9	83972.4	65688.9	51772.5	41557.8	32768.6	24623.1	17005.4	10651.2	6730.0	5090.3
10°	119137.4	94181.2	73373.9	57227.5	45156.6	35512.3	26939.5	18966.6	12044.6	7330.4	5247.9
7.5°	133000.6	103415.2	80073.1	61593.7	48020.8	37688.5	28771.7	20514.3	13142.3	7802.5	5371.8
5°	143300.2	110222.8	84983.4	64779.8	50103.7	39266.8	30097.5	21632.2	13934.0	8142.6	5460.9
2.5°	149655.7	114399.3	87983.1	66720.0	51368.9	40223.7	30900.1	22308.1	14412.1	8347.9	5514.6
0°	151805.4	115807.5	88992.3	67371.6	51793.3	40544.3	31168.8	22534.3	14572.0	8416.5	5532.6
-2.5°	149655.7	114399.3	87983.1	66720.0	51368.9	40223.7	30900.1	22308.1	14412.1	8347.9	5514.6
-5°	143300.2	110222.8	84983.4	64779.8	50103.7	39266.8	30097.5	21632.2	13934.0	8142.6	5460.9
-7.5°	133000.6	103415.2	80073.1	61593.7	48020.8	37688.5	28771.7	20514.3	13142.3	7802.5	5371.8
-10°	119137.4	94181.2	73373.9	57227.5	45156.6	35512.3	26939.5	18966.6	12044.6	7330.4	5247.9
-12.5°	105633.9	83972.4	65688.9	51772.5	41557.8	32768.6	24623.1	17005.4	10651.2	6730.0	5090.3
-15°	90985.0	73220.3	58619.4	47103.3	37821.9	29625.4	21902.3	14650.4	8974.2	6006.2	4899.8
-17.5°	77430.3	62870.8	50937.6	41780.1	33734.8	26154.5	18948.6	12524.4	7765.7	5427.4	4688.1
-20°	64312.7	53325.2	44556.5	36650.8	29333.6	22287.3	15627.9	10146.9	6734.4	5154.8	4518.5



REPORT NUMBER: P1212187 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-4S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	53325.2	45495.1	38137.1	31295.9	24744.6	18351.4	12559.7	7995.9	5591.1	4851.9	4329.8
-25°	44556.5	38137.1	32011.0	26004.1	20018.5	14205.6	9491.5	6656.0	5193.0	4582.2	4122.9
-27.5°	36650.8	31295.9	26004.1	20579.9	15177.7	10696.1	7380.4	5442.2	4809.0	4341.4	3899.2
-30°	29333.6	24744.6	20018.5	15177.7	11101.2	7747.2	5747.9	5004.8	4500.7	4084.0	3659.4
-32.5°	22287.3	18351.4	14205.6	10696.1	7747.2	5926.6	5103.8	4597.7	4209.4	3811.5	3435.2
-35°	15627.9	12559.7	9491.5	7380.4	5747.9	5103.8	4630.2	4272.8	3904.0	3536.7	3208.3
-37.5°	10146.9	7995.9	6656.0	5442.2	5004.8	4597.7	4272.8	3935.0	3587.9	3283.3	3010.8
-40°	6734.4	5591.1	5193.0	4809.0	4500.7	4209.4	3904.0	3587.9	3308.4	3047.9	2823.9
-42.5°	5154.8	4851.9	4582.2	4341.4	4084.0	3811.5	3536.7	3283.3	3047.9	2842.2	2654.0
-45°	4518.5	4329.8	4122.9	3899.2	3659.4	3435.2	3208.3	3010.8	2823.9	2654.0	2485.2
-47.5°	4023.9	3849.6	3658.1	3473.8	3285.4	3096.9	2937.2	2771.4	2623.7	2465.3	2253.5
-50°	3537.8	3401.8	3252.2	3100.6	2968.8	2828.2	2695.6	2563.7	2405.9	2214.3	1995.6
-52.5°	3119.2	3024.8	2920.8	2807.7	2700.9	2591.1	2471.3	2307.8	2136.5	1921.9	1685.9
-55°	2798.1	2722.6	2642.1	2554.3	2451.0	2315.9	2172.5	2002.5	1800.3	1589.2	1375.8
-57.5°	2523.7	2447.5	2349.2	2241.9	2126.0	1977.9	1809.9	1632.3	1449.7	1260.1	1068.3
-60°	2172.5	2091.5	1977.9	1853.3	1718.6	1574.4	1424.9	1266.7	1100.3	954.2	802.7
-62.5°	1729.9	1636.6	1534.7	1424.9	1306.0	1178.3	1051.2	931.0	804.3	676.7	583.0
-65°	1272.3	1190.7	1100.3	1017.1	927.6	831.5	729.0	642.0	564.5	483.3	401.6
-67.5°	863.3	802.7	735.4	670.0	616.0	557.9	495.9	430.1	373.8	320.1	264.0
-70°	548.8	512.6	472.5	428.6	388.7	350.9	310.5	267.6	222.3	187.5	157.4
-72.5°	322.2	299.1	273.4	245.2	214.6	191.7	170.5	147.9	124.1	99.0	79.4
-75°	161.4	149.5	136.3	121.8	106.1	89.1	78.7	70.9	62.7	54.1	45.1
-77.5°	68.7	64.7	60.3	55.5	50.2	44.6	38.5	33.3	30.2	27.0	23.7
-80°	28.9	27.5	25.9	24.2	22.3	20.3	18.1	15.8	13.4	11.8	11.2
-82.5°	11.2	11.0	10.7	10.4	10.1	9.7	9.4	9.0	8.6	8.1	7.7
-85°	7.0	6.9	6.9	6.9	6.8	6.8	6.7	6.7	6.6	6.6	6.5
-87.5°	5.7	5.6	5.5	5.4	5.3	5.1	5.0	4.8	4.7	4.5	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



REPORT NUMBER: P1212187 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-57-70-4S-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°	4.1	3.9	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	1.8
85°	6.5	6.4	6.3	6.2	6.2	6.1	5.6	5.2	4.7	4.2	3.7
82.5°	7.2	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.2	6.1	5.5
80°	10.6	9.9	9.2	8.5	7.8	7.1	6.9	6.8	6.6	6.5	6.3
77.5°	20.2	16.5	12.7	11.4	10.5	9.5	8.6	7.6	7.0	6.8	6.6
75°	35.7	30.5	26.0	21.3	16.5	12.0	10.8	9.7	8.5	7.3	6.9
72.5°	68.4	57.0	45.1	33.7	28.1	22.3	16.4	11.7	10.3	8.9	7.5
70°	126.1	93.6	74.2	60.3	46.0	32.9	26.2	19.3	12.3	10.5	8.9
67.5°	206.1	169.5	131.6	92.6	71.2	54.7	37.8	28.1	20.3	12.3	10.3
65°	336.6	269.1	202.4	159.1	114.6	77.8	59.1	40.0	28.1	19.3	11.7
62.5°	485.7	391.7	315.0	236.1	175.6	125.6	80.1	59.1	37.8	26.2	16.4
60°	658.9	548.8	435.2	342.8	254.5	181.2	125.6	77.8	54.7	32.9	22.3
57.5°	897.4	720.8	586.9	460.6	352.0	254.5	175.6	114.6	71.2	46.0	28.1
55°	1154.8	954.7	758.8	599.7	460.6	342.8	236.1	159.1	92.6	60.3	33.7
52.5°	1445.7	1201.1	973.9	758.8	586.9	435.2	315.0	202.4	131.6	74.2	45.1
50°	1734.5	1469.2	1201.1	954.7	720.8	548.8	391.7	269.1	169.5	93.6	57.0
47.5°	2020.3	1734.5	1445.7	1154.8	897.4	658.9	485.7	336.6	206.1	126.1	68.4
45°	2253.5	1995.6	1685.9	1375.8	1068.3	802.7	583.0	401.6	264.0	157.4	79.4
42.5°	2465.3	2214.3	1921.9	1589.2	1260.1	954.2	676.7	483.3	320.1	187.5	99.0
40°	2623.7	2405.9	2136.5	1800.3	1449.7	1100.3	804.3	564.5	373.8	222.3	124.1
37.5°	2771.4	2563.7	2307.8	2002.5	1632.3	1266.7	931.0	642.0	430.1	267.6	147.9
35°	2937.2	2695.6	2471.3	2172.5	1809.9	1424.9	1051.2	729.0	495.9	310.5	170.5
32.5°	3096.9	2828.2	2591.1	2315.9	1977.9	1574.4	1178.3	831.5	557.9	350.9	191.7
30°	3285.4	2968.8	2700.9	2451.0	2126.0	1718.6	1306.0	927.6	616.0	388.7	214.6
27.5°	3473.8	3100.6	2807.7	2554.3	2241.9	1853.3	1424.9	1017.1	670.0	428.6	245.2
25°	3658.1	3252.2	2920.8	2642.1	2349.2	1977.9	1534.7	1100.3	735.4	472.5	273.4
22.5°	3849.6	3401.8	3024.8	2722.6	2447.5	2091.5	1636.6	1190.7	802.7	512.6	299.1
20°	4023.9	3537.8	3119.2	2798.1	2523.7	2172.5	1729.9	1272.3	863.3	548.8	322.2
17.5°	4180.3	3670.1	3226.1	2875.5	2583.3	2244.7	1813.1	1344.8	917.3	580.9	342.8
15°	4317.9	3796.5	3324.2	2943.2	2635.3	2307.8	1885.7	1408.2	964.3	609.0	360.7
12.5°	4435.7	3904.7	3408.1	3001.0	2679.8	2361.6	1947.5	1462.1	1004.4	632.8	375.9
10°	4533.2	3994.0	3477.3	3048.6	2716.4	2405.9	1998.4	1506.4	1037.3	652.4	388.4
7.5°	4609.7	4064.1	3531.5	3085.9	2745.0	2440.5	2038.1	1541.1	1063.0	667.7	398.2
5°	4664.7	4114.4	3570.4	3112.7	2765.5	2465.3	2066.6	1565.9	1081.4	678.6	405.2
2.5°	4697.8	4144.7	3593.8	3128.8	2777.9	2480.2	2083.8	1580.8	1092.5	685.2	409.4
0°	4708.9	4154.8	3601.6	3134.2	2782.0	2485.2	2089.5	1585.8	1096.2	687.4	410.8
-2.5°	4697.8	4144.7	3593.8	3128.8	2777.9	2480.2	2083.8	1580.8	1092.5	685.2	409.4
-5°	4664.7	4114.4	3570.4	3112.7	2765.5	2465.3	2066.6	1565.9	1081.4	678.6	405.2
-7.5°	4609.7	4064.1	3531.5	3085.9	2745.0	2440.5	2038.1	1541.1	1063.0	667.7	398.2
-10°	4533.2	3994.0	3477.3	3048.6	2716.4	2405.9	1998.4	1506.4	1037.3	652.4	388.4
-12.5°	4435.7	3904.7	3408.1	3001.0	2679.8	2361.6	1947.5	1462.1	1004.4	632.8	375.9
-15°	4317.9	3796.5	3324.2	2943.2	2635.3	2307.8	1885.7	1408.2	964.3	609.0	360.7
-17.5°	4180.3	3670.1	3226.1	2875.5	2583.3	2244.7	1813.1	1344.8	917.3	580.9	342.8
-20°	4023.9	3537.8	3119.2	2798.1	2523.7	2172.5	1729.9	1272.3	863.3	548.8	322.2



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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°	3849.6	3401.8	3024.8	2722.6	2447.5	2091.5	1636.6	1190.7	802.7	512.6	299.1
-25°	3658.1	3252.2	2920.8	2642.1	2349.2	1977.9	1534.7	1100.3	735.4	472.5	273.4
-27.5°	3473.8	3100.6	2807.7	2554.3	2241.9	1853.3	1424.9	1017.1	670.0	428.6	245.2
-30°	3285.4	2968.8	2700.9	2451.0	2126.0	1718.6	1306.0	927.6	616.0	388.7	214.6
-32.5°	3096.9	2828.2	2591.1	2315.9	1977.9	1574.4	1178.3	831.5	557.9	350.9	191.7
-35°	2937.2	2695.6	2471.3	2172.5	1809.9	1424.9	1051.2	729.0	495.9	310.5	170.5
-37.5°	2771.4	2563.7	2307.8	2002.5	1632.3	1266.7	931.0	642.0	430.1	267.6	147.9
-40°	2623.7	2405.9	2136.5	1800.3	1449.7	1100.3	804.3	564.5	373.8	222.3	124.1
-42.5°	2465.3	2214.3	1921.9	1589.2	1260.1	954.2	676.7	483.3	320.1	187.5	99.0
-45°	2253.5	1995.6	1685.9	1375.8	1068.3	802.7	583.0	401.6	264.0	157.4	79.4
-47.5°	2020.3	1734.5	1445.7	1154.8	897.4	658.9	485.7	336.6	206.1	126.1	68.4
-50°	1734.5	1469.2	1201.1	954.7	720.8	548.8	391.7	269.1	169.5	93.6	57.0
-52.5°	1445.7	1201.1	973.9	758.8	586.9	435.2	315.0	202.4	131.6	74.2	45.1
-55°	1154.8	954.7	758.8	599.7	460.6	342.8	236.1	159.1	92.6	60.3	33.7
-57.5°	897.4	720.8	586.9	460.6	352.0	254.5	175.6	114.6	71.2	46.0	28.1
-60°	658.9	548.8	435.2	342.8	254.5	181.2	125.6	77.8	54.7	32.9	22.3
-62.5°	485.7	391.7	315.0	236.1	175.6	125.6	80.1	59.1	37.8	26.2	16.4
-65°	336.6	269.1	202.4	159.1	114.6	77.8	59.1	40.0	28.1	19.3	11.7
-67.5°	206.1	169.5	131.6	92.6	71.2	54.7	37.8	28.1	20.3	12.3	10.3
-70°	126.1	93.6	74.2	60.3	46.0	32.9	26.2	19.3	12.3	10.5	8.9
-72.5°	68.4	57.0	45.1	33.7	28.1	22.3	16.4	11.7	10.3	8.9	7.5
-75°	35.7	30.5	26.0	21.3	16.5	12.0	10.8	9.7	8.5	7.3	6.9
-77.5°	20.2	16.5	12.7	11.4	10.5	9.5	8.6	7.6	7.0	6.8	6.6
-80°	10.6	9.9	9.2	8.5	7.8	7.1	6.9	6.8	6.6	6.5	6.3
-82.5°	7.2	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.2	6.1	5.5
-85°	6.5	6.4	6.3	6.2	6.2	6.1	5.6	5.2	4.7	4.2	3.7
-87.5°	4.1	3.9	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	1.8
-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°	1.6	1.3	1.1	0.8	0.5	0.3	0.0
85°	3.2	2.6	2.1	1.6	1.1	0.5	0.0
82.5°	4.7	4.0	3.2	2.4	1.6	0.8	0.0
80°	6.1	5.3	4.2	3.2	2.1	1.1	0.0
77.5°	6.4	6.2	5.3	4.0	2.6	1.3	0.0
75°	6.6	6.4	6.1	4.7	3.2	1.6	0.0
72.5°	6.9	6.6	6.3	5.5	3.7	1.8	0.0
70°	7.3	6.8	6.5	6.1	4.2	2.1	0.0
67.5°	8.5	7.0	6.6	6.2	4.7	2.3	0.0
65°	9.7	7.6	6.8	6.4	5.2	2.6	0.0
62.5°	10.8	8.6	6.9	6.5	5.6	2.8	0.0
60°	12.0	9.5	7.1	6.6	6.1	3.0	0.0
57.5°	16.5	10.5	7.8	6.7	6.2	3.3	0.0
55°	21.3	11.4	8.5	6.8	6.2	3.5	0.0
52.5°	26.0	12.7	9.2	6.9	6.3	3.7	0.0
50°	30.5	16.5	9.9	7.0	6.4	3.9	0.0
47.5°	35.7	20.2	10.6	7.2	6.5	4.1	0.0
45°	45.1	23.7	11.2	7.7	6.5	4.3	0.0
42.5°	54.1	27.0	11.8	8.1	6.6	4.5	0.0
40°	62.7	30.2	13.4	8.6	6.6	4.7	0.0
37.5°	70.9	33.3	15.8	9.0	6.7	4.8	0.0
35°	78.7	38.5	18.1	9.4	6.7	5.0	0.0
32.5°	89.1	44.6	20.3	9.7	6.8	5.1	0.0
30°	106.1	50.2	22.3	10.1	6.8	5.3	0.0
27.5°	121.8	55.5	24.2	10.4	6.9	5.4	0.0
25°	136.3	60.3	25.9	10.7	6.9	5.5	0.0
22.5°	149.5	64.7	27.5	11.0	6.9	5.6	0.0
20°	161.4	68.7	28.9	11.2	7.0	5.7	0.0
17.5°	172.0	72.2	30.2	11.4	7.0	5.8	0.0
15°	181.2	75.2	31.2	11.6	7.0	5.9	0.0
12.5°	189.0	77.8	32.2	11.7	7.1	6.0	0.0
10°	195.4	80.0	32.9	11.9	7.1	6.0	0.0
7.5°	200.4	81.6	33.5	12.0	7.1	6.0	0.0
5°	204.0	82.8	34.0	12.0	7.1	6.1	0.0
2.5°	206.2	83.6	34.2	12.1	7.1	6.1	0.0
0°	206.9	83.8	34.3	12.1	7.1	6.1	0.0
-2.5°	206.2	83.6	34.2	12.1	7.1	6.1	0.0
-5°	204.0	82.8	34.0	12.0	7.1	6.1	0.0
-7.5°	200.4	81.6	33.5	12.0	7.1	6.0	0.0
-10°	195.4	80.0	32.9	11.9	7.1	6.0	0.0
-12.5°	189.0	77.8	32.2	11.7	7.1	6.0	0.0
-15°	181.2	75.2	31.2	11.6	7.0	5.9	0.0
-17.5°	172.0	72.2	30.2	11.4	7.0	5.8	0.0
-20°	161.4	68.7	28.9	11.2	7.0	5.7	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	149.5	64.7	27.5	11.0	6.9	5.6	0.0
-25°	136.3	60.3	25.9	10.7	6.9	5.5	0.0
-27.5°	121.8	55.5	24.2	10.4	6.9	5.4	0.0
-30°	106.1	50.2	22.3	10.1	6.8	5.3	0.0
-32.5°	89.1	44.6	20.3	9.7	6.8	5.1	0.0
-35°	78.7	38.5	18.1	9.4	6.7	5.0	0.0
-37.5°	70.9	33.3	15.8	9.0	6.7	4.8	0.0
-40°	62.7	30.2	13.4	8.6	6.6	4.7	0.0
-42.5°	54.1	27.0	11.8	8.1	6.6	4.5	0.0
-45°	45.1	23.7	11.2	7.7	6.5	4.3	0.0
-47.5°	35.7	20.2	10.6	7.2	6.5	4.1	0.0
-50°	30.5	16.5	9.9	7.0	6.4	3.9	0.0
-52.5°	26.0	12.7	9.2	6.9	6.3	3.7	0.0
-55°	21.3	11.4	8.5	6.8	6.2	3.5	0.0
-57.5°	16.5	10.5	7.8	6.7	6.2	3.3	0.0
-60°	12.0	9.5	7.1	6.6	6.1	3.0	0.0
-62.5°	10.8	8.6	6.9	6.5	5.6	2.8	0.0
-65°	9.7	7.6	6.8	6.4	5.2	2.6	0.0
-67.5°	8.5	7.0	6.6	6.2	4.7	2.3	0.0
-70°	7.3	6.8	6.5	6.1	4.2	2.1	0.0
-72.5°	6.9	6.6	6.3	5.5	3.7	1.8	0.0
-75°	6.6	6.4	6.1	4.7	3.2	1.6	0.0
-77.5°	6.4	6.2	5.3	4.0	2.6	1.3	0.0
-80°	6.1	5.3	4.2	3.2	2.1	1.1	0.0
-82.5°	4.7	4.0	3.2	2.4	1.6	0.8	0.0
-85°	3.2	2.6	2.1	1.6	1.1	0.5	0.0
-87.5°	1.6	1.3	1.1	0.8	0.5	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)