

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: P1212097 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-40-80-4S-HEG**

Issue Date: 11/14/2025

Test Information

Test Method: LM-79-08
Report Number: P1212097 (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-40-80-4S-HEG
Description: EPHESUS LS12 LUMINAIRE
(12) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

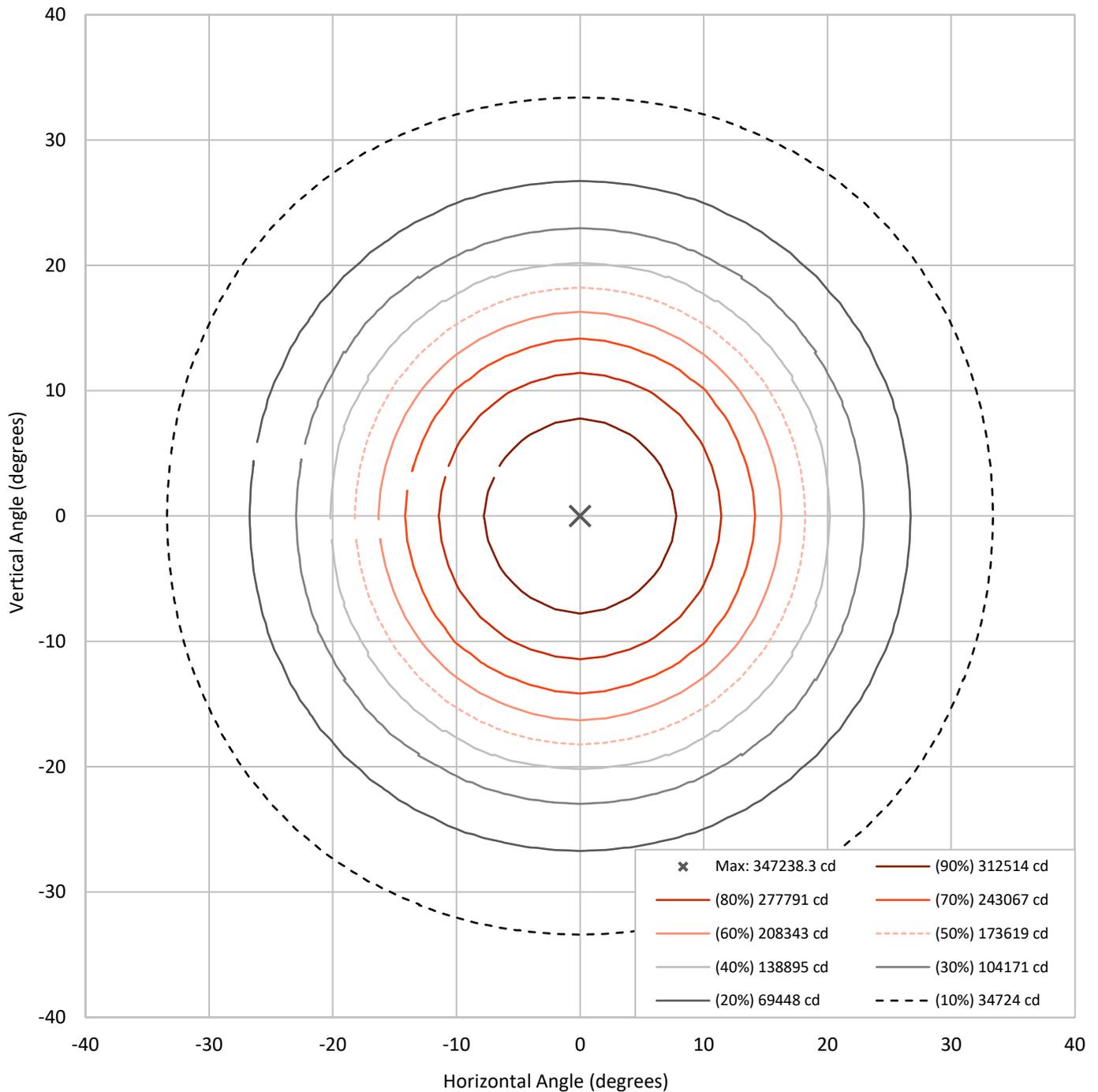
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	158524.5 lumens	Max Intensity:	347238.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	152.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	36.4°H x 36.4°V	Field Angle (10%):	66.7°H x 66.7°V
Beam Lumens:	80418.3 lumens	Field Lumens:	138817.1 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-40-80-4S-HEG

Iso-Candela Plot





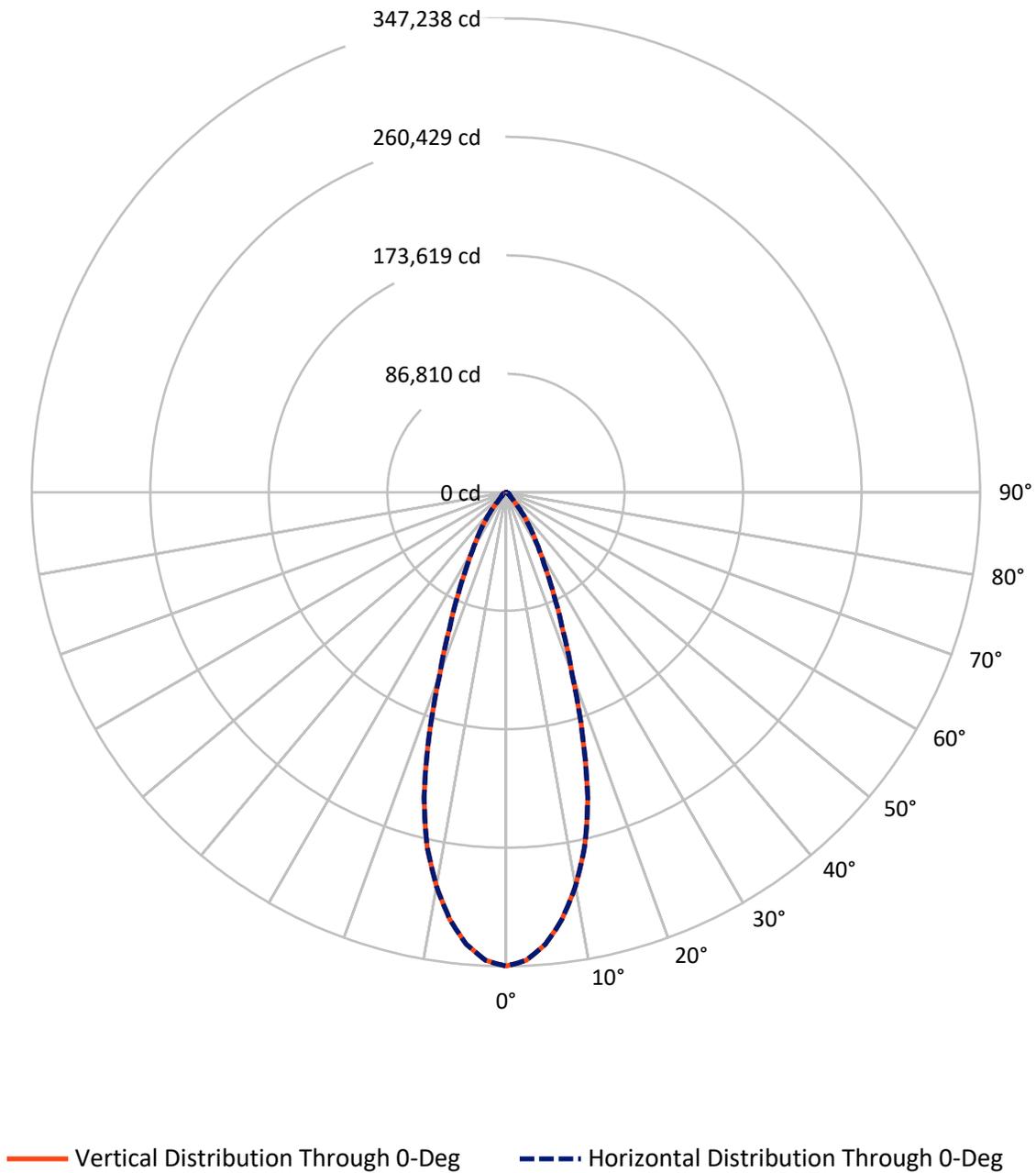
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Lumen Table

90															90				
80	0.1	0.7		4.1		11.5		15.3		11.5		4.1		0.7		0.1			
70															70				
60	0.3	0.6	3.0	8.8	18.4	29.5	39.0	44.2	44.2	39.0	29.5	18.4	8.8	3.0	0.6	0.3			
50		2.2	10.5	27.9	49.3	67.5	81.6	89.7	89.7	81.6	67.5	49.3	27.9	10.5	2.2				
40	1.5	5.5	22.8	49.0	75.7	107.1	149.3	190.8	190.8	149.3	107.1	75.7	49.0	22.8	5.5	1.5			
30		9.8	34.8	65.5	114.5	285.5	611.3	857.3	857.3	611.3	285.5	114.5	65.5	34.8	9.8				
20	3.5	14.3	43.1	84.0	259.8	834.3	1669.6	2475.9	2475.9	1669.6	834.3	259.8	84.0	43.1	14.3	3.5			
10		17.7	48.9	110.4	523.8	1572.3	3823.4	6335.2	6335.2	3823.4	1572.3	523.8	110.4	48.9	17.7				
0	4.4	19.4	52.1	137.7	712.7	2266.6	6157.2	9389.9	9389.9	6157.2	2266.6	712.7	137.7	52.1	19.4	4.4			
-10		19.4	52.1	137.7	712.7	2266.6	6157.2	9389.9	9389.9	6157.2	2266.6	712.7	137.7	52.1	19.4				
-20	3.5	17.7	48.9	110.4	523.8	1572.3	3823.4	6335.2	6335.2	3823.4	1572.3	523.8	110.4	48.9	17.7	3.5			
-30		14.3	43.1	84.0	259.8	834.3	1669.6	2475.9	2475.9	1669.6	834.3	259.8	84.0	43.1	14.3				
-40	1.5	9.8	34.8	65.5	114.5	285.5	611.3	857.3	857.3	611.3	285.5	114.5	65.5	34.8	9.8	1.5			
-50		5.5	22.8	49.0	75.7	107.1	149.3	190.8	190.8	149.3	107.1	75.7	49.0	22.8	5.5				
-60	0.3	2.2	10.5	27.9	49.3	67.5	81.6	89.7	89.7	81.6	67.5	49.3	27.9	10.5	2.2	0.3			
-70		0.6	3.0	8.8	18.4	29.5	39.0	44.2	44.2	39.0	29.5	18.4	8.8	3.0	0.6				
-80															-80				
-90	0.1	0.7		4.1		11.5		15.3		11.5		4.1		0.7		0.1			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

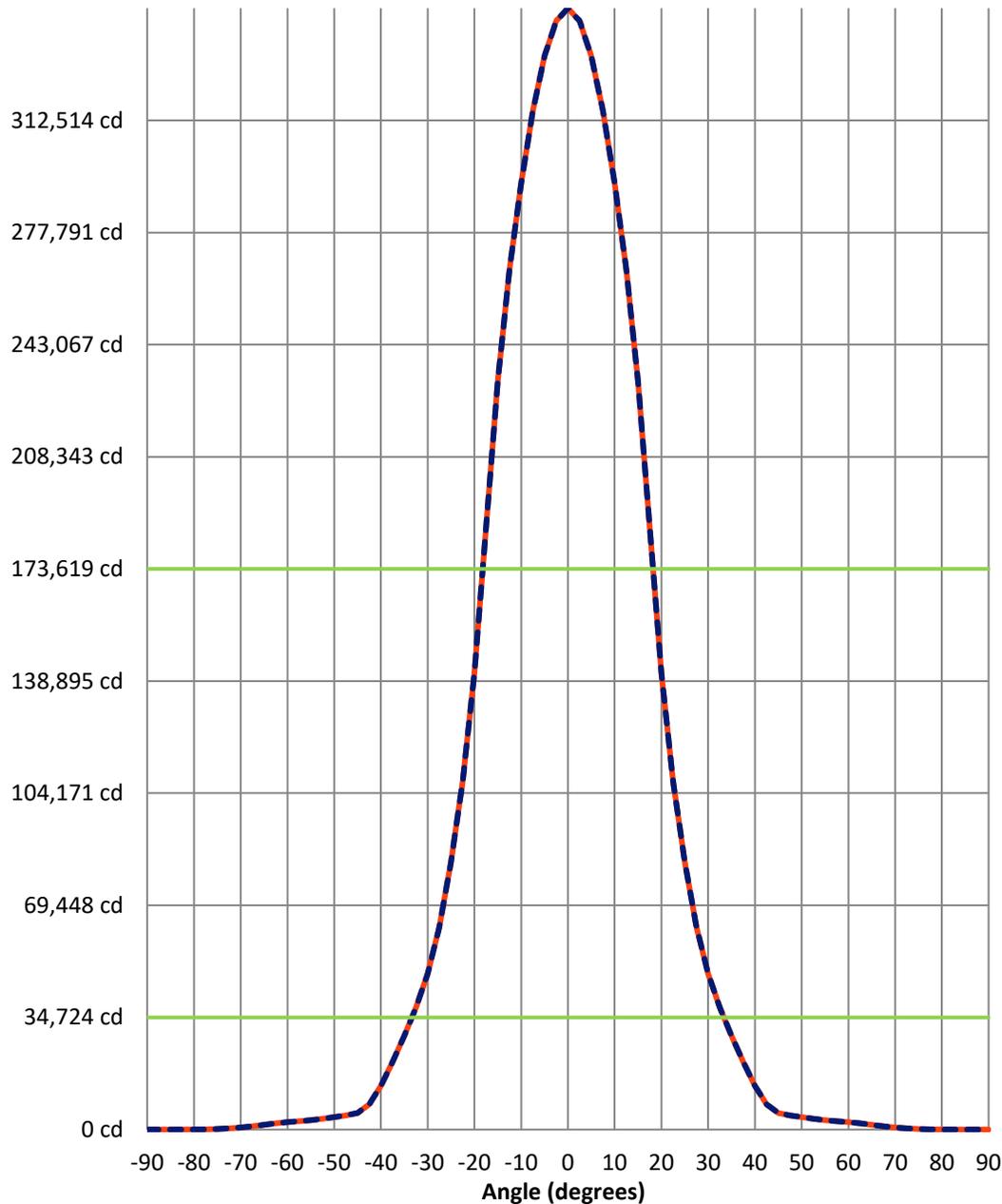
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
H Angle: 36.4°
V Angle: 36.4°
Lumens: 80418.3
Efficiency: 50.7%

Field:
H Angle: 66.7°
V Angle: 66.7°
Lumens: 138817.1
Efficiency: 87.6%

Spill:
Lumens: 19707.4
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	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
85°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
82.5°	0.0	0.7	1.5	2.2	2.9	3.6	4.3	5.0	5.6	5.7	5.9
80°	0.0	1.0	1.9	2.9	3.9	4.8	5.6	5.8	6.0	6.1	6.3
77.5°	0.0	1.2	2.4	3.6	4.8	5.7	5.9	6.1	6.3	6.5	7.1
75°	0.0	1.4	2.9	4.3	5.6	5.9	6.1	6.4	6.7	7.9	9.0
72.5°	0.0	1.7	3.4	5.0	5.8	6.1	6.4	7.0	8.3	9.6	10.9
70°	0.0	1.9	3.8	5.6	6.0	6.3	6.7	8.3	9.8	11.5	18.0
67.5°	0.0	2.1	4.3	5.7	6.1	6.5	7.9	9.6	11.5	18.9	26.3
65°	0.0	2.4	4.7	5.9	6.3	7.1	9.0	10.9	18.0	26.3	37.3
62.5°	0.0	2.6	5.2	6.0	6.4	8.0	10.1	15.3	24.4	35.3	55.1
60°	0.0	2.8	5.6	6.1	6.6	8.9	11.2	20.8	30.7	51.0	72.6
57.5°	0.0	3.0	5.7	6.2	7.3	9.8	15.4	26.2	42.9	66.4	106.8
55°	0.0	3.2	5.7	6.3	7.9	10.6	19.9	31.4	56.2	86.3	148.2
52.5°	0.0	3.4	5.8	6.4	8.6	11.9	24.3	42.1	69.2	122.7	188.6
50°	0.0	3.6	5.9	6.5	9.2	15.4	28.5	53.1	87.3	157.9	250.8
47.5°	0.0	3.8	6.0	6.7	9.9	18.8	33.3	63.7	117.5	192.0	313.6
45°	0.0	4.0	6.0	7.2	10.5	22.1	42.1	74.0	146.7	246.0	374.3
42.5°	0.0	4.1	6.1	7.6	11.0	25.2	50.5	92.3	174.7	298.3	450.3
40°	0.0	4.3	6.1	8.0	12.5	28.2	58.5	115.6	207.2	348.4	526.1
37.5°	0.0	4.4	6.2	8.4	14.8	31.1	66.1	137.8	249.4	400.8	598.3
35°	0.0	4.6	6.2	8.7	16.9	35.9	73.3	158.9	289.3	462.1	679.4
32.5°	0.0	4.7	6.3	9.1	18.9	41.6	83.1	178.6	327.0	519.9	774.9
30°	0.0	4.8	6.3	9.4	20.8	46.8	98.9	200.0	362.2	574.0	864.4
27.5°	0.0	5.0	6.4	9.7	22.6	51.7	113.5	228.5	399.3	624.4	947.8
25°	0.0	5.1	6.4	10.0	24.2	56.2	127.0	254.7	440.3	685.3	1025.3
22.5°	0.0	5.2	6.4	10.2	25.6	60.3	139.3	278.7	477.7	748.0	1109.5
20°	0.0	5.3	6.5	10.4	27.0	64.0	150.4	300.2	511.4	804.5	1185.5
17.5°	0.0	5.3	6.5	10.6	28.1	67.3	160.3	319.4	541.4	854.8	1253.2
15°	0.0	5.4	6.5	10.8	29.2	70.1	168.8	336.1	567.5	898.6	1312.2
12.5°	0.0	5.5	6.6	11.0	30.0	72.6	176.1	350.3	589.7	936.0	1362.4
10°	0.0	5.5	6.6	11.1	30.7	74.5	182.1	362.0	608.0	966.6	1403.8
7.5°	0.0	5.6	6.6	11.2	31.3	76.1	186.8	371.1	622.2	990.6	1436.0
5°	0.0	5.6	6.6	11.2	31.7	77.2	190.1	377.6	632.4	1007.7	1459.2
2.5°	0.0	5.6	6.6	11.3	31.9	77.9	192.1	381.5	638.6	1018.1	1473.1
0°	0.0	5.6	6.6	11.3	32.0	78.1	192.8	382.8	640.6	1021.5	1477.7
-2.5°	0.0	5.6	6.6	11.3	31.9	77.9	192.1	381.5	638.6	1018.1	1473.1
-5°	0.0	5.6	6.6	11.2	31.7	77.2	190.1	377.6	632.4	1007.7	1459.2
-7.5°	0.0	5.6	6.6	11.2	31.3	76.1	186.8	371.1	622.2	990.6	1436.0
-10°	0.0	5.5	6.6	11.1	30.7	74.5	182.1	362.0	608.0	966.6	1403.8
-12.5°	0.0	5.5	6.6	11.0	30.0	72.6	176.1	350.3	589.7	936.0	1362.4
-15°	0.0	5.4	6.5	10.8	29.2	70.1	168.8	336.1	567.5	898.6	1312.2
-17.5°	0.0	5.3	6.5	10.6	28.1	67.3	160.3	319.4	541.4	854.8	1253.2
-20°	0.0	5.3	6.5	10.4	27.0	64.0	150.4	300.2	511.4	804.5	1185.5



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 CATALOG NUMBER: EPH-LS12-1000R-40-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	5.2	6.4	10.2	25.6	60.3	139.3	278.7	477.7	748.0	1109.5
-25°	0.0	5.1	6.4	10.0	24.2	56.2	127.0	254.7	440.3	685.3	1025.3
-27.5°	0.0	5.0	6.4	9.7	22.6	51.7	113.5	228.5	399.3	624.4	947.8
-30°	0.0	4.8	6.3	9.4	20.8	46.8	98.9	200.0	362.2	574.0	864.4
-32.5°	0.0	4.7	6.3	9.1	18.9	41.6	83.1	178.6	327.0	519.9	774.9
-35°	0.0	4.6	6.2	8.7	16.9	35.9	73.3	158.9	289.3	462.1	679.4
-37.5°	0.0	4.4	6.2	8.4	14.8	31.1	66.1	137.8	249.4	400.8	598.3
-40°	0.0	4.3	6.1	8.0	12.5	28.2	58.5	115.6	207.2	348.4	526.1
-42.5°	0.0	4.1	6.1	7.6	11.0	25.2	50.5	92.3	174.7	298.3	450.3
-45°	0.0	4.0	6.0	7.2	10.5	22.1	42.1	74.0	146.7	246.0	374.3
-47.5°	0.0	3.8	6.0	6.7	9.9	18.8	33.3	63.7	117.5	192.0	313.6
-50°	0.0	3.6	5.9	6.5	9.2	15.4	28.5	53.1	87.3	157.9	250.8
-52.5°	0.0	3.4	5.8	6.4	8.6	11.9	24.3	42.1	69.2	122.7	188.6
-55°	0.0	3.2	5.7	6.3	7.9	10.6	19.9	31.4	56.2	86.3	148.2
-57.5°	0.0	3.0	5.7	6.2	7.3	9.8	15.4	26.2	42.9	66.4	106.8
-60°	0.0	2.8	5.6	6.1	6.6	8.9	11.2	20.8	30.7	51.0	72.6
-62.5°	0.0	2.6	5.2	6.0	6.4	8.0	10.1	15.3	24.4	35.3	55.1
-65°	0.0	2.4	4.7	5.9	6.3	7.1	9.0	10.9	18.0	26.3	37.3
-67.5°	0.0	2.1	4.3	5.7	6.1	6.5	7.9	9.6	11.5	18.9	26.3
-70°	0.0	1.9	3.8	5.6	6.0	6.3	6.7	8.3	9.8	11.5	18.0
-72.5°	0.0	1.7	3.4	5.0	5.8	6.1	6.4	7.0	8.3	9.6	10.9
-75°	0.0	1.4	2.9	4.3	5.6	5.9	6.1	6.4	6.7	7.9	9.0
-77.5°	0.0	1.2	2.4	3.6	4.8	5.7	5.9	6.1	6.3	6.5	7.1
-80°	0.0	1.0	1.9	2.9	3.9	4.8	5.6	5.8	6.0	6.1	6.3
-82.5°	0.0	0.7	1.5	2.2	2.9	3.6	4.3	5.0	5.6	5.7	5.9
-85°	0.0	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.8	4.3	4.7
-87.5°	0.0	0.2	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.1	2.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
85°	5.2	5.6	5.7	5.7	5.8	5.9	6.0	6.0	6.1	6.1	6.2
82.5°	6.0	6.1	6.2	6.3	6.4	6.5	6.7	7.2	7.6	8.0	8.4
80°	6.4	6.6	7.3	7.9	8.6	9.2	9.9	10.5	11.0	12.5	14.8
77.5°	8.0	8.9	9.8	10.6	11.9	15.4	18.8	22.1	25.2	28.2	31.1
75°	10.1	11.2	15.4	19.9	24.3	28.5	33.3	42.1	50.5	58.5	66.1
72.5°	15.3	20.8	26.2	31.4	42.1	53.1	63.7	74.0	92.3	115.6	137.8
70°	24.4	30.7	42.9	56.2	69.2	87.3	117.5	146.7	174.7	207.2	249.4
67.5°	35.3	51.0	66.4	86.3	122.7	157.9	192.0	246.0	298.3	348.4	400.8
65°	55.1	72.6	106.8	148.2	188.6	250.8	313.6	374.3	450.3	526.1	598.3
62.5°	74.6	117.0	163.7	220.0	293.5	365.0	452.6	543.3	630.6	749.5	867.5
60°	117.0	168.8	237.2	319.4	405.6	511.4	614.1	748.0	889.2	1025.3	1180.4
57.5°	163.7	237.2	328.0	429.2	547.0	671.7	836.3	995.5	1174.2	1350.9	1521.1
55°	220.0	319.4	429.2	558.9	707.1	889.7	1076.1	1282.0	1480.9	1677.6	1866.0
52.5°	293.5	405.6	547.0	707.1	907.5	1119.3	1347.2	1571.0	1791.0	1990.9	2150.5
50°	365.0	511.4	671.7	889.7	1119.3	1369.0	1616.3	1859.6	2063.4	2241.9	2388.9
47.5°	452.6	614.1	836.3	1076.1	1347.2	1616.3	1882.6	2099.9	2297.2	2444.9	2582.5
45°	543.3	748.0	995.5	1282.0	1571.0	1859.6	2099.9	2315.8	2473.1	2631.5	2805.7
42.5°	630.6	889.2	1174.2	1480.9	1791.0	2063.4	2297.2	2473.1	2648.5	2840.3	3059.6
40°	749.5	1025.3	1350.9	1677.6	1990.9	2241.9	2444.9	2631.5	2840.3	3083.0	3343.4
37.5°	867.5	1180.4	1521.1	1866.0	2150.5	2388.9	2582.5	2805.7	3059.6	3343.4	3666.8
35°	979.6	1327.7	1686.5	2024.4	2302.8	2511.9	2737.0	2989.7	3295.7	3637.9	3981.6
32.5°	1098.0	1467.1	1843.1	2158.1	2414.5	2635.5	2885.9	3201.2	3551.8	3922.5	4284.4
30°	1216.9	1601.4	1981.1	2283.9	2516.8	2766.5	3061.5	3410.1	3805.7	4194.0	4663.8
27.5°	1327.7	1727.0	2089.1	2380.2	2616.3	2889.4	3237.2	3633.4	4045.5	4481.3	5071.4
25°	1430.1	1843.1	2189.1	2462.0	2721.8	3030.6	3408.9	3841.9	4269.9	4839.1	6202.4
22.5°	1525.0	1948.9	2280.7	2537.1	2818.7	3170.0	3587.3	4034.7	4521.3	5210.2	7451.0
20°	1612.0	2024.4	2351.7	2607.5	2906.7	3296.7	3749.7	4210.6	4803.5	6275.5	9455.4
17.5°	1689.5	2091.7	2407.2	2679.5	3006.4	3420.0	3895.3	4368.6	5057.5	7236.6	11670.9
15°	1757.1	2150.5	2455.7	2742.6	3097.8	3537.8	4023.6	4565.9	5596.9	8362.6	13651.9
12.5°	1814.8	2200.6	2497.1	2796.5	3175.9	3638.6	4133.4	4743.4	6271.5	9925.4	15846.5
10°	1862.2	2241.9	2531.2	2841.0	3240.4	3721.8	4224.3	4890.3	6830.9	11223.8	17674.0
7.5°	1899.2	2274.1	2557.9	2875.7	3290.8	3787.1	4295.6	5005.7	7270.9	12246.6	19116.2
5°	1925.8	2297.2	2577.0	2900.7	3327.1	3833.9	4346.8	5088.8	7587.8	12984.3	20158.0
2.5°	1941.8	2311.2	2588.6	2915.7	3348.9	3862.2	4377.7	5138.9	7779.1	13429.9	20787.8
0°	1947.1	2315.8	2592.4	2920.7	3356.2	3871.6	4388.0	5155.6	7843.0	13578.9	20998.6
-2.5°	1941.8	2311.2	2588.6	2915.7	3348.9	3862.2	4377.7	5138.9	7779.1	13429.9	20787.8
-5°	1925.8	2297.2	2577.0	2900.7	3327.1	3833.9	4346.8	5088.8	7587.8	12984.3	20158.0
-7.5°	1899.2	2274.1	2557.9	2875.7	3290.8	3787.1	4295.6	5005.7	7270.9	12246.6	19116.2
-10°	1862.2	2241.9	2531.2	2841.0	3240.4	3721.8	4224.3	4890.3	6830.9	11223.8	17674.0
-12.5°	1814.8	2200.6	2497.1	2796.5	3175.9	3638.6	4133.4	4743.4	6271.5	9925.4	15846.5
-15°	1757.1	2150.5	2455.7	2742.6	3097.8	3537.8	4023.6	4565.9	5596.9	8362.6	13651.9
-17.5°	1689.5	2091.7	2407.2	2679.5	3006.4	3420.0	3895.3	4368.6	5057.5	7236.6	11670.9
-20°	1612.0	2024.4	2351.7	2607.5	2906.7	3296.7	3749.7	4210.6	4803.5	6275.5	9455.4



REPORT NUMBER: P1212097 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-1000R-40-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1525.0	1948.9	2280.7	2537.1	2818.7	3170.0	3587.3	4034.7	4521.3	5210.2	7451.0
-25°	1430.1	1843.1	2189.1	2462.0	2721.8	3030.6	3408.9	3841.9	4269.9	4839.1	6202.4
-27.5°	1327.7	1727.0	2089.1	2380.2	2616.3	2889.4	3237.2	3633.4	4045.5	4481.3	5071.4
-30°	1216.9	1601.4	1981.1	2283.9	2516.8	2766.5	3061.5	3410.1	3805.7	4194.0	4663.8
-32.5°	1098.0	1467.1	1843.1	2158.1	2414.5	2635.5	2885.9	3201.2	3551.8	3922.5	4284.4
-35°	979.6	1327.7	1686.5	2024.4	2302.8	2511.9	2737.0	2989.7	3295.7	3637.9	3981.6
-37.5°	867.5	1180.4	1521.1	1866.0	2150.5	2388.9	2582.5	2805.7	3059.6	3343.4	3666.8
-40°	749.5	1025.3	1350.9	1677.6	1990.9	2241.9	2444.9	2631.5	2840.3	3083.0	3343.4
-42.5°	630.6	889.2	1174.2	1480.9	1791.0	2063.4	2297.2	2473.1	2648.5	2840.3	3059.6
-45°	543.3	748.0	995.5	1282.0	1571.0	1859.6	2099.9	2315.8	2473.1	2631.5	2805.7
-47.5°	452.6	614.1	836.3	1076.1	1347.2	1616.3	1882.6	2099.9	2297.2	2444.9	2582.5
-50°	365.0	511.4	671.7	889.7	1119.3	1369.0	1616.3	1859.6	2063.4	2241.9	2388.9
-52.5°	293.5	405.6	547.0	707.1	907.5	1119.3	1347.2	1571.0	1791.0	1990.9	2150.5
-55°	220.0	319.4	429.2	558.9	707.1	889.7	1076.1	1282.0	1480.9	1677.6	1866.0
-57.5°	163.7	237.2	328.0	429.2	547.0	671.7	836.3	995.5	1174.2	1350.9	1521.1
-60°	117.0	168.8	237.2	319.4	405.6	511.4	614.1	748.0	889.2	1025.3	1180.4
-62.5°	74.6	117.0	163.7	220.0	293.5	365.0	452.6	543.3	630.6	749.5	867.5
-65°	55.1	72.6	106.8	148.2	188.6	250.8	313.6	374.3	450.3	526.1	598.3
-67.5°	35.3	51.0	66.4	86.3	122.7	157.9	192.0	246.0	298.3	348.4	400.8
-70°	24.4	30.7	42.9	56.2	69.2	87.3	117.5	146.7	174.7	207.2	249.4
-72.5°	15.3	20.8	26.2	31.4	42.1	53.1	63.7	74.0	92.3	115.6	137.8
-75°	10.1	11.2	15.4	19.9	24.3	28.5	33.3	42.1	50.5	58.5	66.1
-77.5°	8.0	8.9	9.8	10.6	11.9	15.4	18.8	22.1	25.2	28.2	31.1
-80°	6.4	6.6	7.3	7.9	8.6	9.2	9.9	10.5	11.0	12.5	14.8
-82.5°	6.0	6.1	6.2	6.3	6.4	6.5	6.7	7.2	7.6	8.0	8.4
-85°	5.2	5.6	5.7	5.7	5.8	5.9	6.0	6.0	6.1	6.1	6.2
-87.5°	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	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



REPORT NUMBER: P1212097 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS12-1000R-40-80-4S-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°	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
85°	6.2	6.3	6.3	6.4	6.4	6.4	6.5	6.5	6.5	6.6	6.6
82.5°	8.7	9.1	9.4	9.7	10.0	10.2	10.4	10.6	10.8	11.0	11.1
80°	16.9	18.9	20.8	22.6	24.2	25.6	27.0	28.1	29.2	30.0	30.7
77.5°	35.9	41.6	46.8	51.7	56.2	60.3	64.0	67.3	70.1	72.6	74.5
75°	73.3	83.1	98.9	113.5	127.0	139.3	150.4	160.3	168.8	176.1	182.1
72.5°	158.9	178.6	200.0	228.5	254.7	278.7	300.2	319.4	336.1	350.3	362.0
70°	289.3	327.0	362.2	399.3	440.3	477.7	511.4	541.4	567.5	589.7	608.0
67.5°	462.1	519.9	574.0	624.4	685.3	748.0	804.5	854.8	898.6	936.0	966.6
65°	679.4	774.9	864.4	947.8	1025.3	1109.5	1185.5	1253.2	1312.2	1362.4	1403.8
62.5°	979.6	1098.0	1216.9	1327.7	1430.1	1525.0	1612.0	1689.5	1757.1	1814.8	1862.2
60°	1327.7	1467.1	1601.4	1727.0	1843.1	1948.9	2024.4	2091.7	2150.5	2200.6	2241.9
57.5°	1686.5	1843.1	1981.1	2089.1	2189.1	2280.7	2351.7	2407.2	2455.7	2497.1	2531.2
55°	2024.4	2158.1	2283.9	2380.2	2462.0	2537.1	2607.5	2679.5	2742.6	2796.5	2841.0
52.5°	2302.8	2414.5	2516.8	2616.3	2721.8	2818.7	2906.7	3006.4	3097.8	3175.9	3240.4
50°	2511.9	2635.5	2766.5	2889.4	3030.6	3170.0	3296.7	3420.0	3537.8	3638.6	3721.8
47.5°	2737.0	2885.9	3061.5	3237.2	3408.9	3587.3	3749.7	3895.3	4023.6	4133.4	4224.3
45°	2989.7	3201.2	3410.1	3633.4	3841.9	4034.7	4210.6	4368.6	4565.9	4743.4	4890.3
42.5°	3295.7	3551.8	3805.7	4045.5	4269.9	4521.3	4803.5	5057.5	5596.9	6271.5	6830.9
40°	3637.9	3922.5	4194.0	4481.3	4839.1	5210.2	6275.5	7236.6	8362.6	9925.4	11223.8
37.5°	3981.6	4284.4	4663.8	5071.4	6202.4	7451.0	9455.4	11670.9	13651.9	15846.5	17674.0
35°	4314.7	4756.0	5356.2	6877.5	8844.7	11703.7	14562.9	17657.3	20409.6	22945.1	25103.6
32.5°	4756.0	5522.7	7219.3	9967.2	13237.4	17100.8	20768.5	24372.1	27606.5	30535.5	33092.3
30°	5356.2	7219.3	10344.7	14143.4	18654.3	23058.3	27334.7	31435.9	35244.4	38725.7	42079.3
27.5°	6877.5	9967.2	14143.4	19177.4	24232.0	29163.2	34153.2	38932.9	43893.3	48244.4	53327.6
25°	8844.7	13237.4	18654.3	24232.0	29829.6	35538.1	41520.0	47466.3	54624.6	61212.4	68373.7
22.5°	11703.7	17100.8	23058.3	29163.2	35538.1	42394.8	49691.2	58586.4	68230.6	78250.0	87763.1
20°	14562.9	20768.5	27334.7	34153.2	41520.0	49691.2	59930.0	72153.7	84784.7	98435.3	111018.7
17.5°	17657.3	24372.1	31435.9	38932.9	47466.3	58586.4	72153.7	87393.9	103968.3	122789.7	140417.6
15°	20409.6	27606.5	35244.4	43893.3	54624.6	68230.6	84784.7	103968.3	126827.1	151709.4	178283.8
12.5°	22945.1	30535.5	38725.7	48244.4	61212.4	78250.0	98435.3	122789.7	151709.4	184738.2	214459.6
10°	25103.6	33092.3	42079.3	53327.6	68373.7	87763.1	111018.7	140417.6	178283.8	214459.6	245083.7
7.5°	26811.0	35120.2	44748.3	57396.3	74616.4	96367.9	123937.2	159670.1	200512.6	238498.0	266572.3
5°	28046.5	36590.9	46689.2	60365.3	79192.1	102711.6	133534.8	174397.4	217427.2	254161.3	281198.0
2.5°	28794.4	37482.5	47868.2	62173.3	81987.4	106603.4	139457.2	183559.6	228077.1	263346.7	289973.9
0°	29044.8	37781.3	48263.7	62780.5	82927.8	107915.7	141460.4	186672.7	231720.4	266294.7	293030.7
-2.5°	28794.4	37482.5	47868.2	62173.3	81987.4	106603.4	139457.2	183559.6	228077.1	263346.7	289973.9
-5°	28046.5	36590.9	46689.2	60365.3	79192.1	102711.6	133534.8	174397.4	217427.2	254161.3	281198.0
-7.5°	26811.0	35120.2	44748.3	57396.3	74616.4	96367.9	123937.2	159670.1	200512.6	238498.0	266572.3
-10°	25103.6	33092.3	42079.3	53327.6	68373.7	87763.1	111018.7	140417.6	178283.8	214459.6	245083.7
-12.5°	22945.1	30535.5	38725.7	48244.4	61212.4	78250.0	98435.3	122789.7	151709.4	184738.2	214459.6
-15°	20409.6	27606.5	35244.4	43893.3	54624.6	68230.6	84784.7	103968.3	126827.1	151709.4	178283.8
-17.5°	17657.3	24372.1	31435.9	38932.9	47466.3	58586.4	72153.7	87393.9	103968.3	122789.7	140417.6
-20°	14562.9	20768.5	27334.7	34153.2	41520.0	49691.2	59930.0	72153.7	84784.7	98435.3	111018.7



REPORT NUMBER: P1212097 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	11703.7	17100.8	23058.3	29163.2	35538.1	42394.8	49691.2	58586.4	68230.6	78250.0	87763.1
-25°	8844.7	13237.4	18654.3	24232.0	29829.6	35538.1	41520.0	47466.3	54624.6	61212.4	68373.7
-27.5°	6877.5	9967.2	14143.4	19177.4	24232.0	29163.2	34153.2	38932.9	43893.3	48244.4	53327.6
-30°	5356.2	7219.3	10344.7	14143.4	18654.3	23058.3	27334.7	31435.9	35244.4	38725.7	42079.3
-32.5°	4756.0	5522.7	7219.3	9967.2	13237.4	17100.8	20768.5	24372.1	27606.5	30535.5	33092.3
-35°	4314.7	4756.0	5356.2	6877.5	8844.7	11703.7	14562.9	17657.3	20409.6	22945.1	25103.6
-37.5°	3981.6	4284.4	4663.8	5071.4	6202.4	7451.0	9455.4	11670.9	13651.9	15846.5	17674.0
-40°	3637.9	3922.5	4194.0	4481.3	4839.1	5210.2	6275.5	7236.6	8362.6	9925.4	11223.8
-42.5°	3295.7	3551.8	3805.7	4045.5	4269.9	4521.3	4803.5	5057.5	5596.9	6271.5	6830.9
-45°	2989.7	3201.2	3410.1	3633.4	3841.9	4034.7	4210.6	4368.6	4565.9	4743.4	4890.3
-47.5°	2737.0	2885.9	3061.5	3237.2	3408.9	3587.3	3749.7	3895.3	4023.6	4133.4	4224.3
-50°	2511.9	2635.5	2766.5	2889.4	3030.6	3170.0	3296.7	3420.0	3537.8	3638.6	3721.8
-52.5°	2302.8	2414.5	2516.8	2616.3	2721.8	2818.7	2906.7	3006.4	3097.8	3175.9	3240.4
-55°	2024.4	2158.1	2283.9	2380.2	2462.0	2537.1	2607.5	2679.5	2742.6	2796.5	2841.0
-57.5°	1686.5	1843.1	1981.1	2089.1	2189.1	2280.7	2351.7	2407.2	2455.7	2497.1	2531.2
-60°	1327.7	1467.1	1601.4	1727.0	1843.1	1948.9	2024.4	2091.7	2150.5	2200.6	2241.9
-62.5°	979.6	1098.0	1216.9	1327.7	1430.1	1525.0	1612.0	1689.5	1757.1	1814.8	1862.2
-65°	679.4	774.9	864.4	947.8	1025.3	1109.5	1185.5	1253.2	1312.2	1362.4	1403.8
-67.5°	462.1	519.9	574.0	624.4	685.3	748.0	804.5	854.8	898.6	936.0	966.6
-70°	289.3	327.0	362.2	399.3	440.3	477.7	511.4	541.4	567.5	589.7	608.0
-72.5°	158.9	178.6	200.0	228.5	254.7	278.7	300.2	319.4	336.1	350.3	362.0
-75°	73.3	83.1	98.9	113.5	127.0	139.3	150.4	160.3	168.8	176.1	182.1
-77.5°	35.9	41.6	46.8	51.7	56.2	60.3	64.0	67.3	70.1	72.6	74.5
-80°	16.9	18.9	20.8	22.6	24.2	25.6	27.0	28.1	29.2	30.0	30.7
-82.5°	8.7	9.1	9.4	9.7	10.0	10.2	10.4	10.6	10.8	11.0	11.1
-85°	6.2	6.3	6.3	6.4	6.4	6.4	6.5	6.5	6.5	6.6	6.6
-87.5°	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.3	5.4	5.5	5.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1212097 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-4S-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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5
82.5°	11.2	11.2	11.3	11.3	11.3	11.2	11.2	11.1	11.0	10.8	10.6
80°	31.3	31.7	31.9	32.0	31.9	31.7	31.3	30.7	30.0	29.2	28.1
77.5°	76.1	77.2	77.9	78.1	77.9	77.2	76.1	74.5	72.6	70.1	67.3
75°	186.8	190.1	192.1	192.8	192.1	190.1	186.8	182.1	176.1	168.8	160.3
72.5°	371.1	377.6	381.5	382.8	381.5	377.6	371.1	362.0	350.3	336.1	319.4
70°	622.2	632.4	638.6	640.6	638.6	632.4	622.2	608.0	589.7	567.5	541.4
67.5°	990.6	1007.7	1018.1	1021.5	1018.1	1007.7	990.6	966.6	936.0	898.6	854.8
65°	1436.0	1459.2	1473.1	1477.7	1473.1	1459.2	1436.0	1403.8	1362.4	1312.2	1253.2
62.5°	1899.2	1925.8	1941.8	1947.1	1941.8	1925.8	1899.2	1862.2	1814.8	1757.1	1689.5
60°	2274.1	2297.2	2311.2	2315.8	2311.2	2297.2	2274.1	2241.9	2200.6	2150.5	2091.7
57.5°	2557.9	2577.0	2588.6	2592.4	2588.6	2577.0	2557.9	2531.2	2497.1	2455.7	2407.2
55°	2875.7	2900.7	2915.7	2920.7	2915.7	2900.7	2875.7	2841.0	2796.5	2742.6	2679.5
52.5°	3290.8	3327.1	3348.9	3356.2	3348.9	3327.1	3290.8	3240.4	3175.9	3097.8	3006.4
50°	3787.1	3833.9	3862.2	3871.6	3862.2	3833.9	3787.1	3721.8	3638.6	3537.8	3420.0
47.5°	4295.6	4346.8	4377.7	4388.0	4377.7	4346.8	4295.6	4224.3	4133.4	4023.6	3895.3
45°	5005.7	5088.8	5138.9	5155.6	5138.9	5088.8	5005.7	4890.3	4743.4	4565.9	4368.6
42.5°	7270.9	7587.8	7779.1	7843.0	7779.1	7587.8	7270.9	6830.9	6271.5	5596.9	5057.5
40°	12246.6	12984.3	13429.9	13578.9	13429.9	12984.3	12246.6	11223.8	9925.4	8362.6	7236.6
37.5°	19116.2	20158.0	20787.8	20998.6	20787.8	20158.0	19116.2	17674.0	15846.5	13651.9	11670.9
35°	26811.0	28046.5	28794.4	29044.8	28794.4	28046.5	26811.0	25103.6	22945.1	20409.6	17657.3
32.5°	35120.2	36590.9	37482.5	37781.3	37482.5	36590.9	35120.2	33092.3	30535.5	27606.5	24372.1
30°	44748.3	46689.2	47868.2	48263.7	47868.2	46689.2	44748.3	42079.3	38725.7	35244.4	31435.9
27.5°	57396.3	60365.3	62173.3	62780.5	62173.3	60365.3	57396.3	53327.6	48244.4	43893.3	38932.9
25°	74616.4	79192.1	81987.4	82927.8	81987.4	79192.1	74616.4	68373.7	61212.4	54624.6	47466.3
22.5°	96367.9	102711.6	106603.4	107915.7	106603.4	102711.6	96367.9	87763.1	78250.0	68230.6	58586.4
20°	123937.2	133534.8	139457.2	141460.4	139457.2	133534.8	123937.2	111018.7	98435.3	84784.7	72153.7
17.5°	159670.1	174397.4	183559.6	186672.7	183559.6	174397.4	159670.1	140417.6	122789.7	103968.3	87393.9
15°	200512.6	217427.2	228077.1	231720.4	228077.1	217427.2	200512.6	178283.8	151709.4	126827.1	103968.3
12.5°	238498.0	254161.3	263346.7	266294.7	263346.7	254161.3	238498.0	214459.6	184738.2	151709.4	122789.7
10°	266572.3	281198.0	289973.9	293030.7	289973.9	281198.0	266572.3	245083.7	214459.6	178283.8	140417.6
7.5°	287097.2	302297.9	312202.8	315449.3	312202.8	302297.9	287097.2	266572.3	238498.0	200512.6	159670.1
5°	302297.9	318937.1	328939.3	332427.1	328939.3	318937.1	302297.9	281198.0	254161.3	217427.2	174397.4
2.5°	312202.8	328939.3	339739.7	343271.2	339739.7	328939.3	312202.8	289973.9	263346.7	228077.1	183559.6
0°	315449.3	332427.1	343271.2	347238.3	343271.2	332427.1	315449.3	293030.7	266294.7	231720.4	186672.7
-2.5°	312202.8	328939.3	339739.7	343271.2	339739.7	328939.3	312202.8	289973.9	263346.7	228077.1	183559.6
-5°	302297.9	318937.1	328939.3	332427.1	328939.3	318937.1	302297.9	281198.0	254161.3	217427.2	174397.4
-7.5°	287097.2	302297.9	312202.8	315449.3	312202.8	302297.9	287097.2	266572.3	238498.0	200512.6	159670.1
-10°	266572.3	281198.0	289973.9	293030.7	289973.9	281198.0	266572.3	245083.7	214459.6	178283.8	140417.6
-12.5°	238498.0	254161.3	263346.7	266294.7	263346.7	254161.3	238498.0	214459.6	184738.2	151709.4	122789.7
-15°	200512.6	217427.2	228077.1	231720.4	228077.1	217427.2	200512.6	178283.8	151709.4	126827.1	103968.3
-17.5°	159670.1	174397.4	183559.6	186672.7	183559.6	174397.4	159670.1	140417.6	122789.7	103968.3	87393.9
-20°	123937.2	133534.8	139457.2	141460.4	139457.2	133534.8	123937.2	111018.7	98435.3	84784.7	72153.7



REPORT NUMBER: P1212097 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	96367.9	102711.6	106603.4	107915.7	106603.4	102711.6	96367.9	87763.1	78250.0	68230.6	58586.4
-25°	74616.4	79192.1	81987.4	82927.8	81987.4	79192.1	74616.4	68373.7	61212.4	54624.6	47466.3
-27.5°	57396.3	60365.3	62173.3	62780.5	62173.3	60365.3	57396.3	53327.6	48244.4	43893.3	38932.9
-30°	44748.3	46689.2	47868.2	48263.7	47868.2	46689.2	44748.3	42079.3	38725.7	35244.4	31435.9
-32.5°	35120.2	36590.9	37482.5	37781.3	37482.5	36590.9	35120.2	33092.3	30535.5	27606.5	24372.1
-35°	26811.0	28046.5	28794.4	29044.8	28794.4	28046.5	26811.0	25103.6	22945.1	20409.6	17657.3
-37.5°	19116.2	20158.0	20787.8	20998.6	20787.8	20158.0	19116.2	17674.0	15846.5	13651.9	11670.9
-40°	12246.6	12984.3	13429.9	13578.9	13429.9	12984.3	12246.6	11223.8	9925.4	8362.6	7236.6
-42.5°	7270.9	7587.8	7779.1	7843.0	7779.1	7587.8	7270.9	6830.9	6271.5	5596.9	5057.5
-45°	5005.7	5088.8	5138.9	5155.6	5138.9	5088.8	5005.7	4890.3	4743.4	4565.9	4368.6
-47.5°	4295.6	4346.8	4377.7	4388.0	4377.7	4346.8	4295.6	4224.3	4133.4	4023.6	3895.3
-50°	3787.1	3833.9	3862.2	3871.6	3862.2	3833.9	3787.1	3721.8	3638.6	3537.8	3420.0
-52.5°	3290.8	3327.1	3348.9	3356.2	3348.9	3327.1	3290.8	3240.4	3175.9	3097.8	3006.4
-55°	2875.7	2900.7	2915.7	2920.7	2915.7	2900.7	2875.7	2841.0	2796.5	2742.6	2679.5
-57.5°	2557.9	2577.0	2588.6	2592.4	2588.6	2577.0	2557.9	2531.2	2497.1	2455.7	2407.2
-60°	2274.1	2297.2	2311.2	2315.8	2311.2	2297.2	2274.1	2241.9	2200.6	2150.5	2091.7
-62.5°	1899.2	1925.8	1941.8	1947.1	1941.8	1925.8	1899.2	1862.2	1814.8	1757.1	1689.5
-65°	1436.0	1459.2	1473.1	1477.7	1473.1	1459.2	1436.0	1403.8	1362.4	1312.2	1253.2
-67.5°	990.6	1007.7	1018.1	1021.5	1018.1	1007.7	990.6	966.6	936.0	898.6	854.8
-70°	622.2	632.4	638.6	640.6	638.6	632.4	622.2	608.0	589.7	567.5	541.4
-72.5°	371.1	377.6	381.5	382.8	381.5	377.6	371.1	362.0	350.3	336.1	319.4
-75°	186.8	190.1	192.1	192.8	192.1	190.1	186.8	182.1	176.1	168.8	160.3
-77.5°	76.1	77.2	77.9	78.1	77.9	77.2	76.1	74.5	72.6	70.1	67.3
-80°	31.3	31.7	31.9	32.0	31.9	31.7	31.3	30.7	30.0	29.2	28.1
-82.5°	11.2	11.2	11.3	11.3	11.3	11.2	11.2	11.1	11.0	10.8	10.6
-85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5
-87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4	5.3
-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: P1212097 (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°	5.3	5.2	5.1	5.0	4.8	4.7	4.6	4.4	4.3	4.1	4.0
85°	6.5	6.4	6.4	6.4	6.3	6.3	6.2	6.2	6.1	6.1	6.0
82.5°	10.4	10.2	10.0	9.7	9.4	9.1	8.7	8.4	8.0	7.6	7.2
80°	27.0	25.6	24.2	22.6	20.8	18.9	16.9	14.8	12.5	11.0	10.5
77.5°	64.0	60.3	56.2	51.7	46.8	41.6	35.9	31.1	28.2	25.2	22.1
75°	150.4	139.3	127.0	113.5	98.9	83.1	73.3	66.1	58.5	50.5	42.1
72.5°	300.2	278.7	254.7	228.5	200.0	178.6	158.9	137.8	115.6	92.3	74.0
70°	511.4	477.7	440.3	399.3	362.2	327.0	289.3	249.4	207.2	174.7	146.7
67.5°	804.5	748.0	685.3	624.4	574.0	519.9	462.1	400.8	348.4	298.3	246.0
65°	1185.5	1109.5	1025.3	947.8	864.4	774.9	679.4	598.3	526.1	450.3	374.3
62.5°	1612.0	1525.0	1430.1	1327.7	1216.9	1098.0	979.6	867.5	749.5	630.6	543.3
60°	2024.4	1948.9	1843.1	1727.0	1601.4	1467.1	1327.7	1180.4	1025.3	889.2	748.0
57.5°	2351.7	2280.7	2189.1	2089.1	1981.1	1843.1	1686.5	1521.1	1350.9	1174.2	995.5
55°	2607.5	2537.1	2462.0	2380.2	2283.9	2158.1	2024.4	1866.0	1677.6	1480.9	1282.0
52.5°	2906.7	2818.7	2721.8	2616.3	2516.8	2414.5	2302.8	2150.5	1990.9	1791.0	1571.0
50°	3296.7	3170.0	3030.6	2889.4	2766.5	2635.5	2511.9	2388.9	2241.9	2063.4	1859.6
47.5°	3749.7	3587.3	3408.9	3237.2	3061.5	2885.9	2737.0	2582.5	2444.9	2297.2	2099.9
45°	4210.6	4034.7	3841.9	3633.4	3410.1	3201.2	2989.7	2805.7	2631.5	2473.1	2315.8
42.5°	4803.5	4521.3	4269.9	4045.5	3805.7	3551.8	3295.7	3059.6	2840.3	2648.5	2473.1
40°	6275.5	5210.2	4839.1	4481.3	4194.0	3922.5	3637.9	3343.4	3083.0	2840.3	2631.5
37.5°	9455.4	7451.0	6202.4	5071.4	4663.8	4284.4	3981.6	3666.8	3343.4	3059.6	2805.7
35°	14562.9	11703.7	8844.7	6877.5	5356.2	4756.0	4314.7	3981.6	3637.9	3295.7	2989.7
32.5°	20768.5	17100.8	13237.4	9967.2	7219.3	5522.7	4756.0	4284.4	3922.5	3551.8	3201.2
30°	27334.7	23058.3	18654.3	14143.4	10344.7	7219.3	5356.2	4663.8	4194.0	3805.7	3410.1
27.5°	34153.2	29163.2	24232.0	19177.4	14143.4	9967.2	6877.5	5071.4	4481.3	4045.5	3633.4
25°	41520.0	35538.1	29829.6	24232.0	18654.3	13237.4	8844.7	6202.4	4839.1	4269.9	3841.9
22.5°	49691.2	42394.8	35538.1	29163.2	23058.3	17100.8	11703.7	7451.0	5210.2	4521.3	4034.7
20°	59930.0	49691.2	41520.0	34153.2	27334.7	20768.5	14562.9	9455.4	6275.5	4803.5	4210.6
17.5°	72153.7	58586.4	47466.3	38932.9	31435.9	24372.1	17657.3	11670.9	7236.6	5057.5	4368.6
15°	84784.7	68230.6	54624.6	43893.3	35244.4	27606.5	20409.6	13651.9	8362.6	5596.9	4565.9
12.5°	98435.3	78250.0	61212.4	48244.4	38725.7	30535.5	22945.1	15846.5	9925.4	6271.5	4743.4
10°	111018.7	87763.1	68373.7	53327.6	42079.3	33092.3	25103.6	17674.0	11223.8	6830.9	4890.3
7.5°	123937.2	96367.9	74616.4	57396.3	44748.3	35120.2	26811.0	19116.2	12246.6	7270.9	5005.7
5°	133534.8	102711.6	79192.1	60365.3	46689.2	36590.9	28046.5	20158.0	12984.3	7587.8	5088.8
2.5°	139457.2	106603.4	81987.4	62173.3	47868.2	37482.5	28794.4	20787.8	13429.9	7779.1	5138.9
0°	141460.4	107915.7	82927.8	62780.5	48263.7	37781.3	29044.8	20998.6	13578.9	7843.0	5155.6
-2.5°	139457.2	106603.4	81987.4	62173.3	47868.2	37482.5	28794.4	20787.8	13429.9	7779.1	5138.9
-5°	133534.8	102711.6	79192.1	60365.3	46689.2	36590.9	28046.5	20158.0	12984.3	7587.8	5088.8
-7.5°	123937.2	96367.9	74616.4	57396.3	44748.3	35120.2	26811.0	19116.2	12246.6	7270.9	5005.7
-10°	111018.7	87763.1	68373.7	53327.6	42079.3	33092.3	25103.6	17674.0	11223.8	6830.9	4890.3
-12.5°	98435.3	78250.0	61212.4	48244.4	38725.7	30535.5	22945.1	15846.5	9925.4	6271.5	4743.4
-15°	84784.7	68230.6	54624.6	43893.3	35244.4	27606.5	20409.6	13651.9	8362.6	5596.9	4565.9
-17.5°	72153.7	58586.4	47466.3	38932.9	31435.9	24372.1	17657.3	11670.9	7236.6	5057.5	4368.6
-20°	59930.0	49691.2	41520.0	34153.2	27334.7	20768.5	14562.9	9455.4	6275.5	4803.5	4210.6



REPORT NUMBER: P1212097 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-4S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	49691.2	42394.8	35538.1	29163.2	23058.3	17100.8	11703.7	7451.0	5210.2	4521.3	4034.7
-25°	41520.0	35538.1	29829.6	24232.0	18654.3	13237.4	8844.7	6202.4	4839.1	4269.9	3841.9
-27.5°	34153.2	29163.2	24232.0	19177.4	14143.4	9967.2	6877.5	5071.4	4481.3	4045.5	3633.4
-30°	27334.7	23058.3	18654.3	14143.4	10344.7	7219.3	5356.2	4663.8	4194.0	3805.7	3410.1
-32.5°	20768.5	17100.8	13237.4	9967.2	7219.3	5522.7	4756.0	4284.4	3922.5	3551.8	3201.2
-35°	14562.9	11703.7	8844.7	6877.5	5356.2	4756.0	4314.7	3981.6	3637.9	3295.7	2989.7
-37.5°	9455.4	7451.0	6202.4	5071.4	4663.8	4284.4	3981.6	3666.8	3343.4	3059.6	2805.7
-40°	6275.5	5210.2	4839.1	4481.3	4194.0	3922.5	3637.9	3343.4	3083.0	2840.3	2631.5
-42.5°	4803.5	4521.3	4269.9	4045.5	3805.7	3551.8	3295.7	3059.6	2840.3	2648.5	2473.1
-45°	4210.6	4034.7	3841.9	3633.4	3410.1	3201.2	2989.7	2805.7	2631.5	2473.1	2315.8
-47.5°	3749.7	3587.3	3408.9	3237.2	3061.5	2885.9	2737.0	2582.5	2444.9	2297.2	2099.9
-50°	3296.7	3170.0	3030.6	2889.4	2766.5	2635.5	2511.9	2388.9	2241.9	2063.4	1859.6
-52.5°	2906.7	2818.7	2721.8	2616.3	2516.8	2414.5	2302.8	2150.5	1990.9	1791.0	1571.0
-55°	2607.5	2537.1	2462.0	2380.2	2283.9	2158.1	2024.4	1866.0	1677.6	1480.9	1282.0
-57.5°	2351.7	2280.7	2189.1	2089.1	1981.1	1843.1	1686.5	1521.1	1350.9	1174.2	995.5
-60°	2024.4	1948.9	1843.1	1727.0	1601.4	1467.1	1327.7	1180.4	1025.3	889.2	748.0
-62.5°	1612.0	1525.0	1430.1	1327.7	1216.9	1098.0	979.6	867.5	749.5	630.6	543.3
-65°	1185.5	1109.5	1025.3	947.8	864.4	774.9	679.4	598.3	526.1	450.3	374.3
-67.5°	804.5	748.0	685.3	624.4	574.0	519.9	462.1	400.8	348.4	298.3	246.0
-70°	511.4	477.7	440.3	399.3	362.2	327.0	289.3	249.4	207.2	174.7	146.7
-72.5°	300.2	278.7	254.7	228.5	200.0	178.6	158.9	137.8	115.6	92.3	74.0
-75°	150.4	139.3	127.0	113.5	98.9	83.1	73.3	66.1	58.5	50.5	42.1
-77.5°	64.0	60.3	56.2	51.7	46.8	41.6	35.9	31.1	28.2	25.2	22.1
-80°	27.0	25.6	24.2	22.6	20.8	18.9	16.9	14.8	12.5	11.0	10.5
-82.5°	10.4	10.2	10.0	9.7	9.4	9.1	8.7	8.4	8.0	7.6	7.2
-85°	6.5	6.4	6.4	6.4	6.3	6.3	6.2	6.2	6.1	6.1	6.0
-87.5°	5.3	5.2	5.1	5.0	4.8	4.7	4.6	4.4	4.3	4.1	4.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1212097 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-80-4S-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°	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.9	1.7
85°	6.0	5.9	5.8	5.7	5.7	5.6	5.2	4.7	4.3	3.8	3.4
82.5°	6.7	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.7	5.6	5.0
80°	9.9	9.2	8.6	7.9	7.3	6.6	6.4	6.3	6.1	6.0	5.8
77.5°	18.8	15.4	11.9	10.6	9.8	8.9	8.0	7.1	6.5	6.3	6.1
75°	33.3	28.5	24.3	19.9	15.4	11.2	10.1	9.0	7.9	6.7	6.4
72.5°	63.7	53.1	42.1	31.4	26.2	20.8	15.3	10.9	9.6	8.3	7.0
70°	117.5	87.3	69.2	56.2	42.9	30.7	24.4	18.0	11.5	9.8	8.3
67.5°	192.0	157.9	122.7	86.3	66.4	51.0	35.3	26.3	18.9	11.5	9.6
65°	313.6	250.8	188.6	148.2	106.8	72.6	55.1	37.3	26.3	18.0	10.9
62.5°	452.6	365.0	293.5	220.0	163.7	117.0	74.6	55.1	35.3	24.4	15.3
60°	614.1	511.4	405.6	319.4	237.2	168.8	117.0	72.6	51.0	30.7	20.8
57.5°	836.3	671.7	547.0	429.2	328.0	237.2	163.7	106.8	66.4	42.9	26.2
55°	1076.1	889.7	707.1	558.9	429.2	319.4	220.0	148.2	86.3	56.2	31.4
52.5°	1347.2	1119.3	907.5	707.1	547.0	405.6	293.5	188.6	122.7	69.2	42.1
50°	1616.3	1369.0	1119.3	889.7	671.7	511.4	365.0	250.8	157.9	87.3	53.1
47.5°	1882.6	1616.3	1347.2	1076.1	836.3	614.1	452.6	313.6	192.0	117.5	63.7
45°	2099.9	1859.6	1571.0	1282.0	995.5	748.0	543.3	374.3	246.0	146.7	74.0
42.5°	2297.2	2063.4	1791.0	1480.9	1174.2	889.2	630.6	450.3	298.3	174.7	92.3
40°	2444.9	2241.9	1990.9	1677.6	1350.9	1025.3	749.5	526.1	348.4	207.2	115.6
37.5°	2582.5	2388.9	2150.5	1866.0	1521.1	1180.4	867.5	598.3	400.8	249.4	137.8
35°	2737.0	2511.9	2302.8	2024.4	1686.5	1327.7	979.6	679.4	462.1	289.3	158.9
32.5°	2885.9	2635.5	2414.5	2158.1	1843.1	1467.1	1098.0	774.9	519.9	327.0	178.6
30°	3061.5	2766.5	2516.8	2283.9	1981.1	1601.4	1216.9	864.4	574.0	362.2	200.0
27.5°	3237.2	2889.4	2616.3	2380.2	2089.1	1727.0	1327.7	947.8	624.4	399.3	228.5
25°	3408.9	3030.6	2721.8	2462.0	2189.1	1843.1	1430.1	1025.3	685.3	440.3	254.7
22.5°	3587.3	3170.0	2818.7	2537.1	2280.7	1948.9	1525.0	1109.5	748.0	477.7	278.7
20°	3749.7	3296.7	2906.7	2607.5	2351.7	2024.4	1612.0	1185.5	804.5	511.4	300.2
17.5°	3895.3	3420.0	3006.4	2679.5	2407.2	2091.7	1689.5	1253.2	854.8	541.4	319.4
15°	4023.6	3537.8	3097.8	2742.6	2455.7	2150.5	1757.1	1312.2	898.6	567.5	336.1
12.5°	4133.4	3638.6	3175.9	2796.5	2497.1	2200.6	1814.8	1362.4	936.0	589.7	350.3
10°	4224.3	3721.8	3240.4	2841.0	2531.2	2241.9	1862.2	1403.8	966.6	608.0	362.0
7.5°	4295.6	3787.1	3290.8	2875.7	2557.9	2274.1	1899.2	1436.0	990.6	622.2	371.1
5°	4346.8	3833.9	3327.1	2900.7	2577.0	2297.2	1925.8	1459.2	1007.7	632.4	377.6
2.5°	4377.7	3862.2	3348.9	2915.7	2588.6	2311.2	1941.8	1473.1	1018.1	638.6	381.5
0°	4388.0	3871.6	3356.2	2920.7	2592.4	2315.8	1947.1	1477.7	1021.5	640.6	382.8
-2.5°	4377.7	3862.2	3348.9	2915.7	2588.6	2311.2	1941.8	1473.1	1018.1	638.6	381.5
-5°	4346.8	3833.9	3327.1	2900.7	2577.0	2297.2	1925.8	1459.2	1007.7	632.4	377.6
-7.5°	4295.6	3787.1	3290.8	2875.7	2557.9	2274.1	1899.2	1436.0	990.6	622.2	371.1
-10°	4224.3	3721.8	3240.4	2841.0	2531.2	2241.9	1862.2	1403.8	966.6	608.0	362.0
-12.5°	4133.4	3638.6	3175.9	2796.5	2497.1	2200.6	1814.8	1362.4	936.0	589.7	350.3
-15°	4023.6	3537.8	3097.8	2742.6	2455.7	2150.5	1757.1	1312.2	898.6	567.5	336.1
-17.5°	3895.3	3420.0	3006.4	2679.5	2407.2	2091.7	1689.5	1253.2	854.8	541.4	319.4
-20°	3749.7	3296.7	2906.7	2607.5	2351.7	2024.4	1612.0	1185.5	804.5	511.4	300.2



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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°	3587.3	3170.0	2818.7	2537.1	2280.7	1948.9	1525.0	1109.5	748.0	477.7	278.7
-25°	3408.9	3030.6	2721.8	2462.0	2189.1	1843.1	1430.1	1025.3	685.3	440.3	254.7
-27.5°	3237.2	2889.4	2616.3	2380.2	2089.1	1727.0	1327.7	947.8	624.4	399.3	228.5
-30°	3061.5	2766.5	2516.8	2283.9	1981.1	1601.4	1216.9	864.4	574.0	362.2	200.0
-32.5°	2885.9	2635.5	2414.5	2158.1	1843.1	1467.1	1098.0	774.9	519.9	327.0	178.6
-35°	2737.0	2511.9	2302.8	2024.4	1686.5	1327.7	979.6	679.4	462.1	289.3	158.9
-37.5°	2582.5	2388.9	2150.5	1866.0	1521.1	1180.4	867.5	598.3	400.8	249.4	137.8
-40°	2444.9	2241.9	1990.9	1677.6	1350.9	1025.3	749.5	526.1	348.4	207.2	115.6
-42.5°	2297.2	2063.4	1791.0	1480.9	1174.2	889.2	630.6	450.3	298.3	174.7	92.3
-45°	2099.9	1859.6	1571.0	1282.0	995.5	748.0	543.3	374.3	246.0	146.7	74.0
-47.5°	1882.6	1616.3	1347.2	1076.1	836.3	614.1	452.6	313.6	192.0	117.5	63.7
-50°	1616.3	1369.0	1119.3	889.7	671.7	511.4	365.0	250.8	157.9	87.3	53.1
-52.5°	1347.2	1119.3	907.5	707.1	547.0	405.6	293.5	188.6	122.7	69.2	42.1
-55°	1076.1	889.7	707.1	558.9	429.2	319.4	220.0	148.2	86.3	56.2	31.4
-57.5°	836.3	671.7	547.0	429.2	328.0	237.2	163.7	106.8	66.4	42.9	26.2
-60°	614.1	511.4	405.6	319.4	237.2	168.8	117.0	72.6	51.0	30.7	20.8
-62.5°	452.6	365.0	293.5	220.0	163.7	117.0	74.6	55.1	35.3	24.4	15.3
-65°	313.6	250.8	188.6	148.2	106.8	72.6	55.1	37.3	26.3	18.0	10.9
-67.5°	192.0	157.9	122.7	86.3	66.4	51.0	35.3	26.3	18.9	11.5	9.6
-70°	117.5	87.3	69.2	56.2	42.9	30.7	24.4	18.0	11.5	9.8	8.3
-72.5°	63.7	53.1	42.1	31.4	26.2	20.8	15.3	10.9	9.6	8.3	7.0
-75°	33.3	28.5	24.3	19.9	15.4	11.2	10.1	9.0	7.9	6.7	6.4
-77.5°	18.8	15.4	11.9	10.6	9.8	8.9	8.0	7.1	6.5	6.3	6.1
-80°	9.9	9.2	8.6	7.9	7.3	6.6	6.4	6.3	6.1	6.0	5.8
-82.5°	6.7	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.7	5.6	5.0
-85°	6.0	5.9	5.8	5.7	5.7	5.6	5.2	4.7	4.3	3.8	3.4
-87.5°	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.1	1.9	1.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
85°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
82.5°	4.3	3.6	2.9	2.2	1.5	0.7	0.0
80°	5.6	4.8	3.9	2.9	1.9	1.0	0.0
77.5°	5.9	5.7	4.8	3.6	2.4	1.2	0.0
75°	6.1	5.9	5.6	4.3	2.9	1.4	0.0
72.5°	6.4	6.1	5.8	5.0	3.4	1.7	0.0
70°	6.7	6.3	6.0	5.6	3.8	1.9	0.0
67.5°	7.9	6.5	6.1	5.7	4.3	2.1	0.0
65°	9.0	7.1	6.3	5.9	4.7	2.4	0.0
62.5°	10.1	8.0	6.4	6.0	5.2	2.6	0.0
60°	11.2	8.9	6.6	6.1	5.6	2.8	0.0
57.5°	15.4	9.8	7.3	6.2	5.7	3.0	0.0
55°	19.9	10.6	7.9	6.3	5.7	3.2	0.0
52.5°	24.3	11.9	8.6	6.4	5.8	3.4	0.0
50°	28.5	15.4	9.2	6.5	5.9	3.6	0.0
47.5°	33.3	18.8	9.9	6.7	6.0	3.8	0.0
45°	42.1	22.1	10.5	7.2	6.0	4.0	0.0
42.5°	50.5	25.2	11.0	7.6	6.1	4.1	0.0
40°	58.5	28.2	12.5	8.0	6.1	4.3	0.0
37.5°	66.1	31.1	14.8	8.4	6.2	4.4	0.0
35°	73.3	35.9	16.9	8.7	6.2	4.6	0.0
32.5°	83.1	41.6	18.9	9.1	6.3	4.7	0.0
30°	98.9	46.8	20.8	9.4	6.3	4.8	0.0
27.5°	113.5	51.7	22.6	9.7	6.4	5.0	0.0
25°	127.0	56.2	24.2	10.0	6.4	5.1	0.0
22.5°	139.3	60.3	25.6	10.2	6.4	5.2	0.0
20°	150.4	64.0	27.0	10.4	6.5	5.3	0.0
17.5°	160.3	67.3	28.1	10.6	6.5	5.3	0.0
15°	168.8	70.1	29.2	10.8	6.5	5.4	0.0
12.5°	176.1	72.6	30.0	11.0	6.6	5.5	0.0
10°	182.1	74.5	30.7	11.1	6.6	5.5	0.0
7.5°	186.8	76.1	31.3	11.2	6.6	5.6	0.0
5°	190.1	77.2	31.7	11.2	6.6	5.6	0.0
2.5°	192.1	77.9	31.9	11.3	6.6	5.6	0.0
0°	192.8	78.1	32.0	11.3	6.6	5.6	0.0
-2.5°	192.1	77.9	31.9	11.3	6.6	5.6	0.0
-5°	190.1	77.2	31.7	11.2	6.6	5.6	0.0
-7.5°	186.8	76.1	31.3	11.2	6.6	5.6	0.0
-10°	182.1	74.5	30.7	11.1	6.6	5.5	0.0
-12.5°	176.1	72.6	30.0	11.0	6.6	5.5	0.0
-15°	168.8	70.1	29.2	10.8	6.5	5.4	0.0
-17.5°	160.3	67.3	28.1	10.6	6.5	5.3	0.0
-20°	150.4	64.0	27.0	10.4	6.5	5.3	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	139.3	60.3	25.6	10.2	6.4	5.2	0.0
-25°	127.0	56.2	24.2	10.0	6.4	5.1	0.0
-27.5°	113.5	51.7	22.6	9.7	6.4	5.0	0.0
-30°	98.9	46.8	20.8	9.4	6.3	4.8	0.0
-32.5°	83.1	41.6	18.9	9.1	6.3	4.7	0.0
-35°	73.3	35.9	16.9	8.7	6.2	4.6	0.0
-37.5°	66.1	31.1	14.8	8.4	6.2	4.4	0.0
-40°	58.5	28.2	12.5	8.0	6.1	4.3	0.0
-42.5°	50.5	25.2	11.0	7.6	6.1	4.1	0.0
-45°	42.1	22.1	10.5	7.2	6.0	4.0	0.0
-47.5°	33.3	18.8	9.9	6.7	6.0	3.8	0.0
-50°	28.5	15.4	9.2	6.5	5.9	3.6	0.0
-52.5°	24.3	11.9	8.6	6.4	5.8	3.4	0.0
-55°	19.9	10.6	7.9	6.3	5.7	3.2	0.0
-57.5°	15.4	9.8	7.3	6.2	5.7	3.0	0.0
-60°	11.2	8.9	6.6	6.1	5.6	2.8	0.0
-62.5°	10.1	8.0	6.4	6.0	5.2	2.6	0.0
-65°	9.0	7.1	6.3	5.9	4.7	2.4	0.0
-67.5°	7.9	6.5	6.1	5.7	4.3	2.1	0.0
-70°	6.7	6.3	6.0	5.6	3.8	1.9	0.0
-72.5°	6.4	6.1	5.8	5.0	3.4	1.7	0.0
-75°	6.1	5.9	5.6	4.3	2.9	1.4	0.0
-77.5°	5.9	5.7	4.8	3.6	2.4	1.2	0.0
-80°	5.6	4.8	3.9	2.9	1.9	1.0	0.0
-82.5°	4.3	3.6	2.9	2.2	1.5	0.7	0.0
-85°	2.9	2.4	1.9	1.5	1.0	0.5	0.0
-87.5°	1.4	1.2	1.0	0.7	0.5	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)