

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: EPHEBUS

Report Number: P1212082 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-40-70-5S-HEG**

Issue Date: 11/14/2025

Test Information

Test Method: LM-79-08
Report Number: P1212082 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/14/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: EPHESUS
Catalog Number: EPH-LS12-1000R-40-70-5S-HEG
Description: EPHESUS LS12 LUMINAIRE
(12) 4000K, 70 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

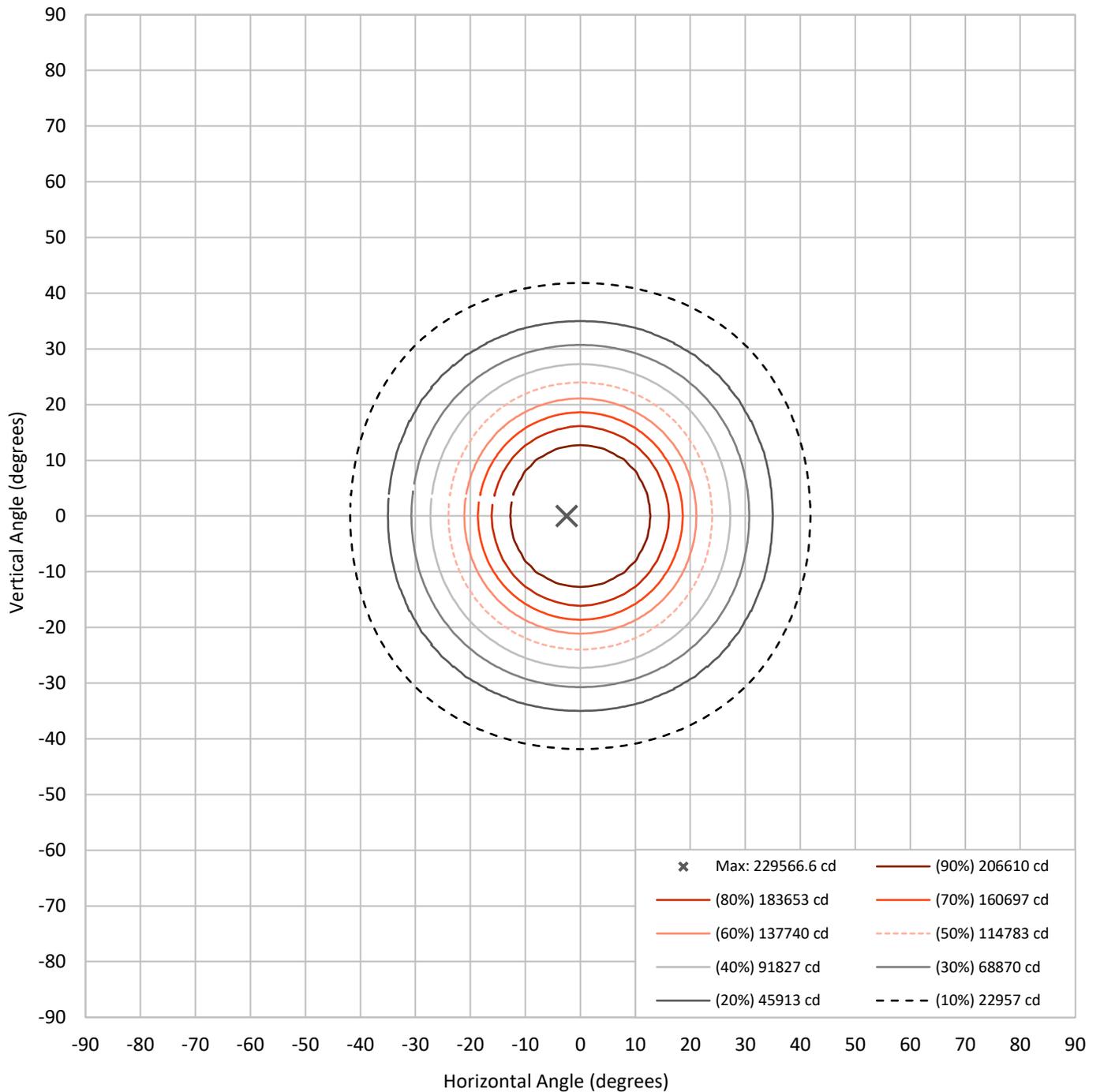
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	167919.1 lumens	Max Intensity:	229566.6 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	161.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	48°H x 47.7°V	Field Angle (10%):	83.7°H x 83.6°V
Beam Lumens:	95209 lumens	Field Lumens:	156190.1 lumens
Beam Efficiency:	56.7%	Field Efficiency:	93.0%

Input Watts (W): 1041
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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CATALOG NUMBER: EPH-LS12-1000R-40-70-5S-HEG

Iso-Candela Plot





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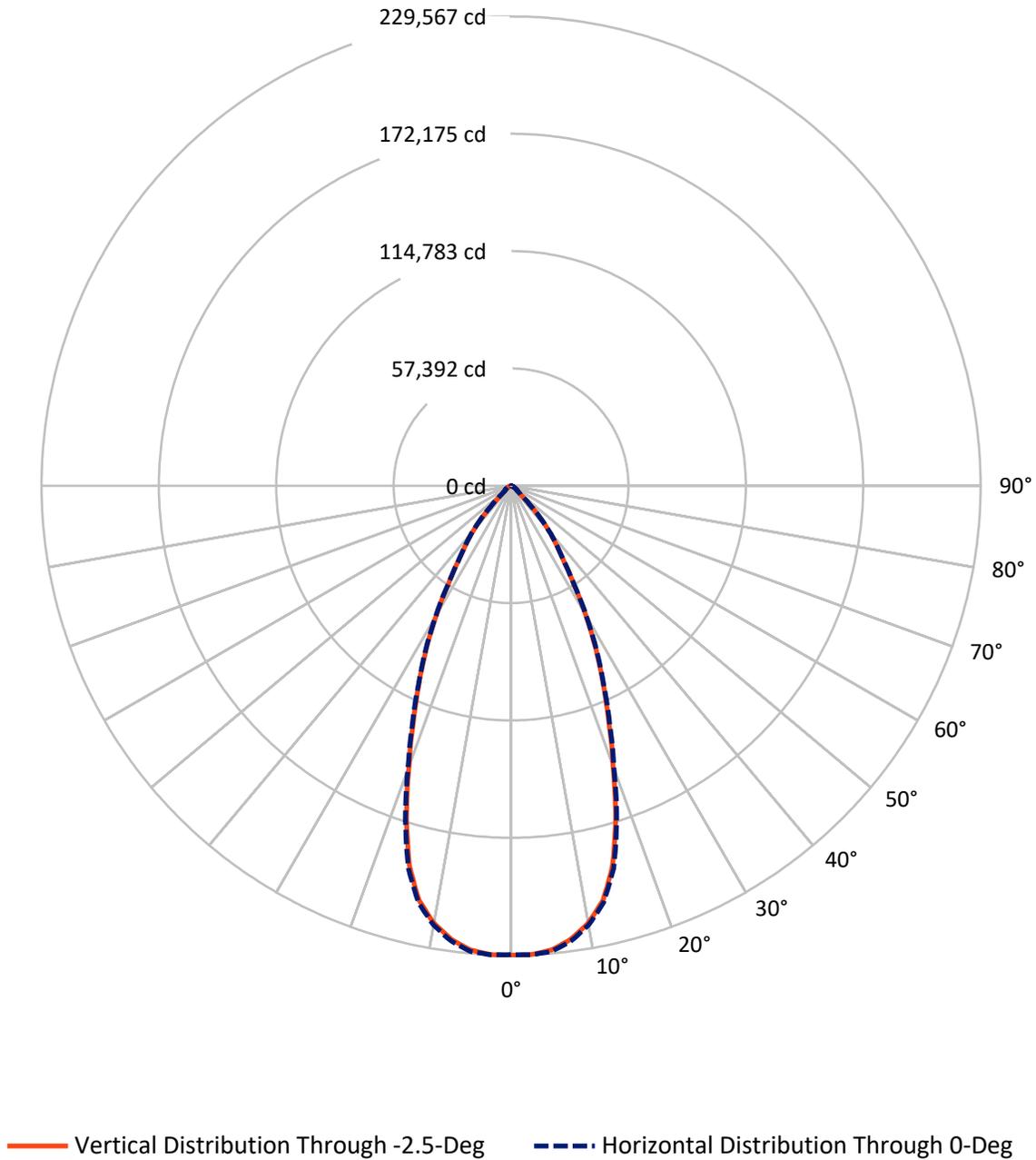
CATALOG NUMBER: EPH-LS12-1000R-40-70-5S-HEG

Lumen Table

90															90				
80	0.2	1.1		4.7		11.6		15.1		11.6		4.7		1.1		0.2			
70															70				
60	0.5	0.7	2.9	8.3	17.2	28.0	37.7	43.1	43.1	37.7	28.0	17.2	8.3	2.9	0.7	0.5			
50		2.2	9.8	26.7	50.7	74.4	91.9	101.6	101.6	91.9	74.4	50.7	26.7	9.8	2.2				
40	1.6	5.1	21.9	52.7	86.7	149.9	290.7	409.6	409.6	290.7	149.9	86.7	52.7	21.9	5.1	1.6			
30		9.2	35.9	75.0	201.4	611.5	1072.9	1390.6	1390.6	1072.9	611.5	201.4	75.0	35.9	9.2				
20	3.4	13.6	47.6	118.3	556.0	1328.9	2367.3	3148.2	3148.2	2367.3	1328.9	556.0	118.3	47.6	13.6	3.4			
10		17.1	55.1	217.6	916.1	2227.6	4051.2	5496.1	5496.1	4051.2	2227.6	916.1	217.6	55.1	17.1				
0	4.2	19.0	59.1	298.0	1153.1	2875.8	5336.3	6736.5	6736.5	5336.3	2875.8	1153.1	298.0	59.1	19.0	4.2			
-10		19.0	59.1	298.0	1153.1	2875.8	5336.3	6736.5	6736.5	5336.3	2875.8	1153.1	298.0	59.1	19.0				
-20	3.4	17.1	55.1	217.6	916.1	2227.6	4051.2	5496.1	5496.1	4051.2	2227.6	916.1	217.6	55.1	17.1	3.4			
-30		13.6	47.6	118.3	556.0	1328.9	2367.3	3148.2	3148.2	2367.3	1328.9	556.0	118.3	47.6	13.6				
-40	1.6	9.2	35.9	75.0	201.4	611.5	1072.9	1390.6	1390.6	1072.9	611.5	201.4	75.0	35.9	9.2	1.6			
-50		5.1	21.9	52.7	86.7	149.9	290.7	409.6	409.6	290.7	149.9	86.7	52.7	21.9	5.1				
-60	0.5	2.2	9.8	26.7	50.7	74.4	91.9	101.6	101.6	91.9	74.4	50.7	26.7	9.8	2.2	0.5			
-70		0.7	2.9	8.3	17.2	28.0	37.7	43.1	43.1	37.7	28.0	17.2	8.3	2.9	0.7				
-80															-80				
-90	0.2	1.1		4.7		11.6		15.1		11.6		4.7		1.1		0.2			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
	Horizontal Angle (degrees)																		

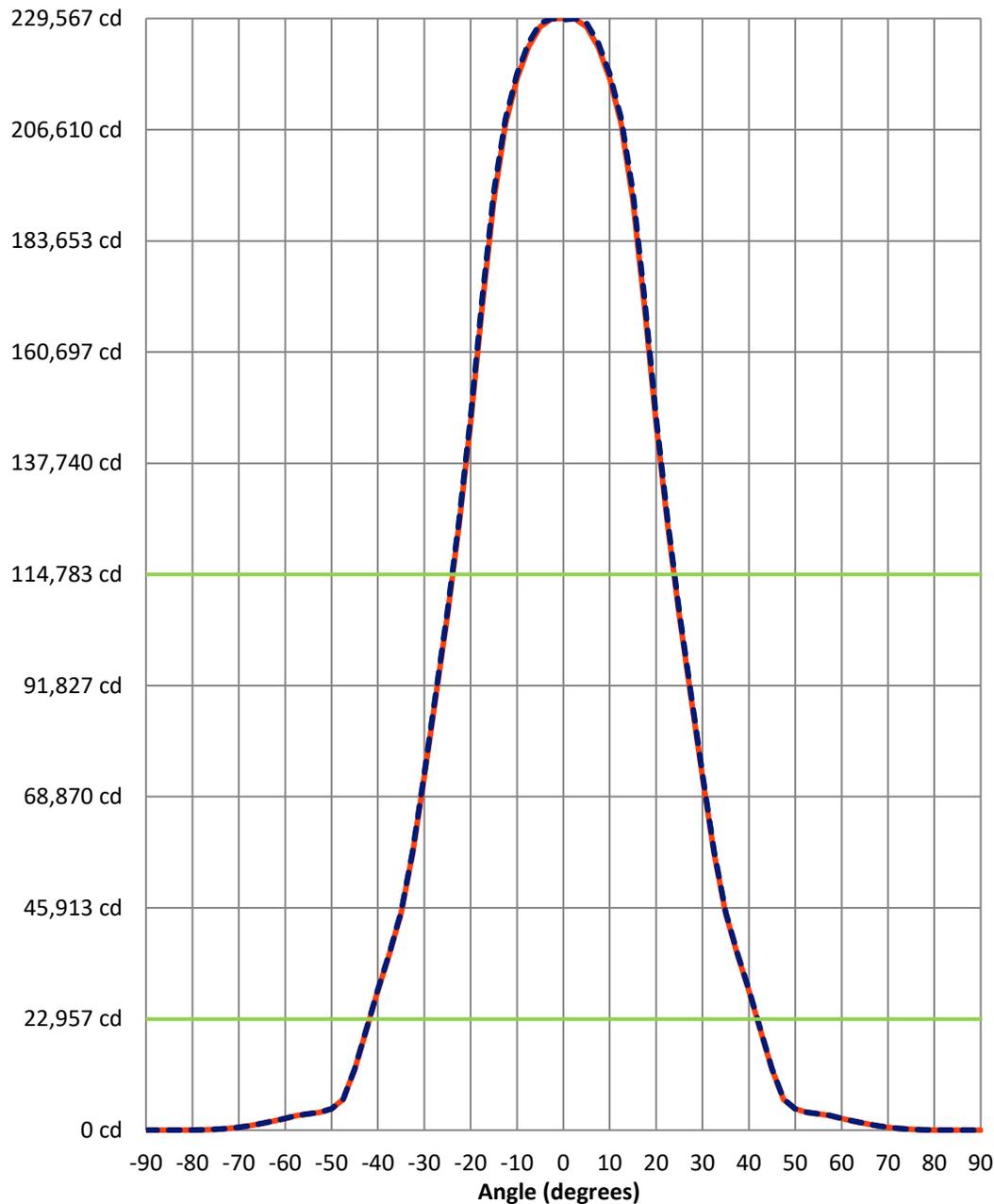
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 48°
 V Angle: 47.7°
 Lumens: 95209
 Efficiency: 56.7%

Field:
 H Angle: 83.7°
 V Angle: 83.6°
 Lumens: 156190.1
 Efficiency: 93.0%

Spill:
 Lumens: 11729.1
 Efficiency: 7.0%

- Vertical Distribution through -2.5-Deg
- - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.5	1.0	1.4	1.9	2.4	2.8	3.3	3.8	4.2	4.6
85°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	6.6	7.5	8.4	9.3
82.5°	0.0	1.4	2.9	4.3	5.7	7.1	8.5	9.9	11.0	11.3	11.5
80°	0.0	1.9	3.8	5.7	7.6	9.5	11.1	11.4	11.7	12.0	12.4
77.5°	0.0	2.4	4.8	7.1	9.5	11.1	11.6	12.0	12.4	12.8	13.8
75°	0.0	2.8	5.7	8.5	11.1	11.6	12.1	12.6	13.3	15.2	17.1
72.5°	0.0	3.3	6.6	9.9	11.4	12.0	12.6	13.6	15.9	18.1	20.4
70°	0.0	3.8	7.5	11.0	11.7	12.4	13.3	15.9	18.5	21.2	28.1
67.5°	0.0	4.2	8.4	11.3	12.0	12.8	15.2	18.1	21.2	29.1	36.9
65°	0.0	4.6	9.3	11.5	12.4	13.8	17.1	20.4	28.1	36.9	48.2
62.5°	0.0	5.1	10.1	11.8	12.7	15.4	19.0	25.2	35.0	46.2	65.6
60°	0.0	5.5	11.0	12.0	13.0	16.9	20.8	31.1	41.6	61.6	82.6
57.5°	0.0	5.9	11.1	12.2	14.1	18.4	25.3	36.8	53.6	76.6	113.0
55°	0.0	6.3	11.3	12.4	15.3	19.8	30.1	42.4	66.6	95.2	149.1
52.5°	0.0	6.7	11.4	12.6	16.4	21.6	34.8	52.9	79.3	126.9	184.3
50°	0.0	7.1	11.6	12.9	17.5	25.4	39.3	63.6	96.0	157.6	237.7
47.5°	0.0	7.4	11.7	13.2	18.6	29.0	44.3	74.0	122.4	187.3	291.7
45°	0.0	7.8	11.8	13.9	19.6	32.5	52.8	84.0	147.8	233.6	343.7
42.5°	0.0	8.1	11.9	14.7	20.5	35.8	61.0	100.4	172.2	278.5	415.2
40°	0.0	8.4	12.1	15.4	22.3	39.0	68.8	120.7	200.3	321.5	487.2
37.5°	0.0	8.7	12.2	16.0	24.7	42.0	76.3	140.1	236.5	368.1	555.8
35°	0.0	9.0	12.3	16.6	27.0	46.8	83.3	158.4	270.8	426.3	632.8
32.5°	0.0	9.3	12.4	17.2	29.1	52.3	92.3	175.7	303.1	481.3	723.6
30°	0.0	9.5	12.5	17.8	31.1	57.5	106.1	194.2	333.4	532.8	808.7
27.5°	0.0	9.8	12.5	18.3	33.0	62.2	118.9	218.6	366.7	580.6	887.9
25°	0.0	10.0	12.6	18.7	34.7	66.6	130.7	241.1	405.7	638.5	961.8
22.5°	0.0	10.2	12.7	19.2	36.2	70.6	141.4	261.7	441.2	698.1	1045.0
20°	0.0	10.3	12.8	19.5	37.6	74.2	151.0	280.2	473.2	751.8	1120.2
17.5°	0.0	10.5	12.8	19.9	38.9	77.4	159.6	296.6	501.7	799.6	1187.0
15°	0.0	10.6	12.9	20.2	40.0	80.2	167.1	310.9	526.5	841.2	1245.4
12.5°	0.0	10.7	12.9	20.4	40.9	82.6	173.5	323.1	547.6	876.7	1295.0
10°	0.0	10.8	12.9	20.6	41.6	84.5	178.7	333.1	565.0	905.9	1335.9
7.5°	0.0	10.9	13.0	20.8	42.2	86.0	182.7	340.9	578.5	928.6	1367.8
5°	0.0	11.0	13.0	20.9	42.7	87.1	185.7	346.5	588.2	944.9	1390.7
2.5°	0.0	11.0	13.0	21.0	42.9	87.8	187.4	349.9	594.1	954.7	1404.4
0°	0.0	11.0	13.0	21.0	43.0	88.0	188.0	351.0	596.0	958.0	1409.0
-2.5°	0.0	11.0	13.0	21.0	42.9	87.8	187.4	349.9	594.1	954.7	1404.4
-5°	0.0	11.0	13.0	20.9	42.7	87.1	185.7	346.5	588.2	944.9	1390.7
-7.5°	0.0	10.9	13.0	20.8	42.2	86.0	182.7	340.9	578.5	928.6	1367.8
-10°	0.0	10.8	12.9	20.6	41.6	84.5	178.7	333.1	565.0	905.9	1335.9
-12.5°	0.0	10.7	12.9	20.4	40.9	82.6	173.5	323.1	547.6	876.7	1295.0
-15°	0.0	10.6	12.9	20.2	40.0	80.2	167.1	310.9	526.5	841.2	1245.4
-17.5°	0.0	10.5	12.8	19.9	38.9	77.4	159.6	296.6	501.7	799.6	1187.0
-20°	0.0	10.3	12.8	19.5	37.6	74.2	151.0	280.2	473.2	751.8	1120.2



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CATALOG NUMBER: EPH-LS12-1000R-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	10.2	12.7	19.2	36.2	70.6	141.4	261.7	441.2	698.1	1045.0
-25°	0.0	10.0	12.6	18.7	34.7	66.6	130.7	241.1	405.7	638.5	961.8
-27.5°	0.0	9.8	12.5	18.3	33.0	62.2	118.9	218.6	366.7	580.6	887.9
-30°	0.0	9.5	12.5	17.8	31.1	57.5	106.1	194.2	333.4	532.8	808.7
-32.5°	0.0	9.3	12.4	17.2	29.1	52.3	92.3	175.7	303.1	481.3	723.6
-35°	0.0	9.0	12.3	16.6	27.0	46.8	83.3	158.4	270.8	426.3	632.8
-37.5°	0.0	8.7	12.2	16.0	24.7	42.0	76.3	140.1	236.5	368.1	555.8
-40°	0.0	8.4	12.1	15.4	22.3	39.0	68.8	120.7	200.3	321.5	487.2
-42.5°	0.0	8.1	11.9	14.7	20.5	35.8	61.0	100.4	172.2	278.5	415.2
-45°	0.0	7.8	11.8	13.9	19.6	32.5	52.8	84.0	147.8	233.6	343.7
-47.5°	0.0	7.4	11.7	13.2	18.6	29.0	44.3	74.0	122.4	187.3	291.7
-50°	0.0	7.1	11.6	12.9	17.5	25.4	39.3	63.6	96.0	157.6	237.7
-52.5°	0.0	6.7	11.4	12.6	16.4	21.6	34.8	52.9	79.3	126.9	184.3
-55°	0.0	6.3	11.3	12.4	15.3	19.8	30.1	42.4	66.6	95.2	149.1
-57.5°	0.0	5.9	11.1	12.2	14.1	18.4	25.3	36.8	53.6	76.6	113.0
-60°	0.0	5.5	11.0	12.0	13.0	16.9	20.8	31.1	41.6	61.6	82.6
-62.5°	0.0	5.1	10.1	11.8	12.7	15.4	19.0	25.2	35.0	46.2	65.6
-65°	0.0	4.6	9.3	11.5	12.4	13.8	17.1	20.4	28.1	36.9	48.2
-67.5°	0.0	4.2	8.4	11.3	12.0	12.8	15.2	18.1	21.2	29.1	36.9
-70°	0.0	3.8	7.5	11.0	11.7	12.4	13.3	15.9	18.5	21.2	28.1
-72.5°	0.0	3.3	6.6	9.9	11.4	12.0	12.6	13.6	15.9	18.1	20.4
-75°	0.0	2.8	5.7	8.5	11.1	11.6	12.1	12.6	13.3	15.2	17.1
-77.5°	0.0	2.4	4.8	7.1	9.5	11.1	11.6	12.0	12.4	12.8	13.8
-80°	0.0	1.9	3.8	5.7	7.6	9.5	11.1	11.4	11.7	12.0	12.4
-82.5°	0.0	1.4	2.9	4.3	5.7	7.1	8.5	9.9	11.0	11.3	11.5
-85°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	6.6	7.5	8.4	9.3
-87.5°	0.0	0.5	1.0	1.4	1.9	2.4	2.8	3.3	3.8	4.2	4.6
-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°	5.1	5.5	5.9	6.3	6.7	7.1	7.4	7.8	8.1	8.4	8.7
85°	10.1	11.0	11.1	11.3	11.4	11.6	11.7	11.8	11.9	12.1	12.2
82.5°	11.8	12.0	12.2	12.4	12.6	12.9	13.2	13.9	14.7	15.4	16.0
80°	12.7	13.0	14.1	15.3	16.4	17.5	18.6	19.6	20.5	22.3	24.7
77.5°	15.4	16.9	18.4	19.8	21.6	25.4	29.0	32.5	35.8	39.0	42.0
75°	19.0	20.8	25.3	30.1	34.8	39.3	44.3	52.8	61.0	68.8	76.3
72.5°	25.2	31.1	36.8	42.4	52.9	63.6	74.0	84.0	100.4	120.7	140.1
70°	35.0	41.6	53.6	66.6	79.3	96.0	122.4	147.8	172.2	200.3	236.5
67.5°	46.2	61.6	76.6	95.2	126.9	157.6	187.3	233.6	278.5	321.5	368.1
65°	65.6	82.6	113.0	149.1	184.3	237.7	291.7	343.7	415.2	487.2	555.8
62.5°	84.6	121.9	162.6	211.3	274.4	335.7	417.3	503.6	586.5	699.5	811.7
60°	121.9	167.1	226.1	296.6	372.6	473.2	570.8	698.1	832.3	961.8	1115.1
57.5°	162.6	226.1	304.0	395.1	507.0	625.6	782.0	933.3	1109.0	1283.6	1454.8
55°	211.3	296.6	395.1	518.3	659.2	832.7	1012.0	1215.5	1412.3	1620.2	1819.3
52.5°	274.4	372.6	507.0	659.2	849.7	1054.6	1280.0	1507.5	1740.0	1968.6	2200.7
50°	335.7	473.2	625.6	832.7	1054.6	1301.6	1555.5	1812.5	2074.1	2333.5	2600.2
47.5°	417.3	570.8	782.0	1012.0	1280.0	1555.5	1836.8	2127.2	2414.0	2722.0	3021.5
45°	503.6	698.1	933.3	1215.5	1507.5	1812.5	2127.2	2441.0	2783.4	3083.5	3263.9
42.5°	586.5	832.3	1109.0	1412.3	1740.0	2074.1	2414.0	2783.4	3101.1	3299.7	3486.3
40°	699.5	961.8	1283.6	1620.2	1968.6	2333.5	2722.0	3083.5	3299.7	3503.8	3697.5
37.5°	811.7	1115.1	1454.8	1819.3	2200.7	2600.2	3021.5	3263.9	3486.3	3697.5	4142.1
35°	918.2	1260.7	1629.7	2017.4	2422.1	2867.7	3192.8	3434.4	3662.0	4101.6	4851.5
32.5°	1033.6	1398.5	1795.1	2211.7	2655.8	3087.6	3347.0	3591.7	3981.0	4624.5	6014.8
30°	1151.2	1539.7	1954.4	2394.7	2878.5	3223.3	3487.8	3782.4	4336.6	5667.6	8672.8
27.5°	1260.7	1672.4	2111.5	2581.1	3067.8	3350.5	3618.4	4095.3	5097.1	7177.3	12012.8
25°	1361.9	1795.1	2256.8	2759.2	3177.0	3464.8	3780.8	4387.3	5959.3	10109.6	15866.7
22.5°	1459.0	1907.6	2390.0	2922.5	3277.4	3568.5	4030.7	5055.5	7504.9	12867.9	19640.4
20°	1550.9	2017.4	2519.1	3058.6	3368.5	3662.7	4258.2	5731.4	9817.9	16087.6	23143.0
17.5°	1632.8	2115.2	2639.9	3133.2	3446.7	3796.4	4520.1	6338.4	11899.4	18992.2	26328.0
15°	1704.3	2200.7	2745.5	3198.6	3514.7	3961.4	5012.8	7871.1	14036.8	21572.0	29145.5
12.5°	1765.2	2273.5	2835.6	3254.4	3572.9	4102.6	5434.9	9325.2	16075.4	23818.6	31382.4
10°	1815.3	2333.5	2909.9	3300.4	3620.8	4219.2	5784.0	10529.3	17766.2	25685.3	33245.2
7.5°	1854.4	2380.4	2967.9	3336.4	3658.4	4310.6	6057.8	11474.9	19095.9	27155.7	34715.3
5°	1882.5	2414.0	3009.6	3362.3	3685.3	4376.2	6254.7	12155.5	20053.7	28216.3	35777.2
2.5°	1899.4	2434.3	3034.6	3377.8	3701.6	4415.8	6373.4	12565.9	20631.8	28856.8	36419.2
0°	1905.0	2441.0	3043.0	3383.0	3707.0	4429.0	6413.0	12703.0	20825.0	29071.0	36634.0
-2.5°	1899.4	2434.3	3034.6	3377.8	3701.6	4415.8	6373.4	12565.9	20631.8	28856.8	36419.2
-5°	1882.5	2414.0	3009.6	3362.3	3685.3	4376.2	6254.7	12155.5	20053.7	28216.3	35777.2
-7.5°	1854.4	2380.4	2967.9	3336.4	3658.4	4310.6	6057.8	11474.9	19095.9	27155.7	34715.3
-10°	1815.3	2333.5	2909.9	3300.4	3620.8	4219.2	5784.0	10529.3	17766.2	25685.3	33245.2
-12.5°	1765.2	2273.5	2835.6	3254.4	3572.9	4102.6	5434.9	9325.2	16075.4	23818.6	31382.4
-15°	1704.3	2200.7	2745.5	3198.6	3514.7	3961.4	5012.8	7871.1	14036.8	21572.0	29145.5
-17.5°	1632.8	2115.2	2639.9	3133.2	3446.7	3796.4	4520.1	6338.4	11899.4	18992.2	26328.0
-20°	1550.9	2017.4	2519.1	3058.6	3368.5	3662.7	4258.2	5731.4	9817.9	16087.6	23143.0



REPORT NUMBER: P1212082 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1459.0	1907.6	2390.0	2922.5	3277.4	3568.5	4030.7	5055.5	7504.9	12867.9	19640.4
-25°	1361.9	1795.1	2256.8	2759.2	3177.0	3464.8	3780.8	4387.3	5959.3	10109.6	15866.7
-27.5°	1260.7	1672.4	2111.5	2581.1	3067.8	3350.5	3618.4	4095.3	5097.1	7177.3	12012.8
-30°	1151.2	1539.7	1954.4	2394.7	2878.5	3223.3	3487.8	3782.4	4336.6	5667.6	8672.8
-32.5°	1033.6	1398.5	1795.1	2211.7	2655.8	3087.6	3347.0	3591.7	3981.0	4624.5	6014.8
-35°	918.2	1260.7	1629.7	2017.4	2422.1	2867.7	3192.8	3434.4	3662.0	4101.6	4851.5
-37.5°	811.7	1115.1	1454.8	1819.3	2200.7	2600.2	3021.5	3263.9	3486.3	3697.5	4142.1
-40°	699.5	961.8	1283.6	1620.2	1968.6	2333.5	2722.0	3083.5	3299.7	3503.8	3697.5
-42.5°	586.5	832.3	1109.0	1412.3	1740.0	2074.1	2414.0	2783.4	3101.1	3299.7	3486.3
-45°	503.6	698.1	933.3	1215.5	1507.5	1812.5	2127.2	2441.0	2783.4	3083.5	3263.9
-47.5°	417.3	570.8	782.0	1012.0	1280.0	1555.5	1836.8	2127.2	2414.0	2722.0	3021.5
-50°	335.7	473.2	625.6	832.7	1054.6	1301.6	1555.5	1812.5	2074.1	2333.5	2600.2
-52.5°	274.4	372.6	507.0	659.2	849.7	1054.6	1280.0	1507.5	1740.0	1968.6	2200.7
-55°	211.3	296.6	395.1	518.3	659.2	832.7	1012.0	1215.5	1412.3	1620.2	1819.3
-57.5°	162.6	226.1	304.0	395.1	507.0	625.6	782.0	933.3	1109.0	1283.6	1454.8
-60°	121.9	167.1	226.1	296.6	372.6	473.2	570.8	698.1	832.3	961.8	1115.1
-62.5°	84.6	121.9	162.6	211.3	274.4	335.7	417.3	503.6	586.5	699.5	811.7
-65°	65.6	82.6	113.0	149.1	184.3	237.7	291.7	343.7	415.2	487.2	555.8
-67.5°	46.2	61.6	76.6	95.2	126.9	157.6	187.3	233.6	278.5	321.5	368.1
-70°	35.0	41.6	53.6	66.6	79.3	96.0	122.4	147.8	172.2	200.3	236.5
-72.5°	25.2	31.1	36.8	42.4	52.9	63.6	74.0	84.0	100.4	120.7	140.1
-75°	19.0	20.8	25.3	30.1	34.8	39.3	44.3	52.8	61.0	68.8	76.3
-77.5°	15.4	16.9	18.4	19.8	21.6	25.4	29.0	32.5	35.8	39.0	42.0
-80°	12.7	13.0	14.1	15.3	16.4	17.5	18.6	19.6	20.5	22.3	24.7
-82.5°	11.8	12.0	12.2	12.4	12.6	12.9	13.2	13.9	14.7	15.4	16.0
-85°	10.1	11.0	11.1	11.3	11.4	11.6	11.7	11.8	11.9	12.1	12.2
-87.5°	5.1	5.5	5.9	6.3	6.7	7.1	7.4	7.8	8.1	8.4	8.7
-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: P1212082 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-100R-40-70-5S-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°	9.0	9.3	9.5	9.8	10.0	10.2	10.3	10.5	10.6	10.7	10.8
85°	12.3	12.4	12.5	12.5	12.6	12.7	12.8	12.8	12.9	12.9	12.9
82.5°	16.6	17.2	17.8	18.3	18.7	19.2	19.5	19.9	20.2	20.4	20.6
80°	27.0	29.1	31.1	33.0	34.7	36.2	37.6	38.9	40.0	40.9	41.6
77.5°	46.8	52.3	57.5	62.2	66.6	70.6	74.2	77.4	80.2	82.6	84.5
75°	83.3	92.3	106.1	118.9	130.7	141.4	151.0	159.6	167.1	173.5	178.7
72.5°	158.4	175.7	194.2	218.6	241.1	261.7	280.2	296.6	310.9	323.1	333.1
70°	270.8	303.1	333.4	366.7	405.7	441.2	473.2	501.7	526.5	547.6	565.0
67.5°	426.3	481.3	532.8	580.6	638.5	698.1	751.8	799.6	841.2	876.7	905.9
65°	632.8	723.6	808.7	887.9	961.8	1045.0	1120.2	1187.0	1245.4	1295.0	1335.9
62.5°	918.2	1033.6	1151.2	1260.7	1361.9	1459.0	1550.9	1632.8	1704.3	1765.2	1815.3
60°	1260.7	1398.5	1539.7	1672.4	1795.1	1907.6	2017.4	2115.2	2200.7	2273.5	2333.5
57.5°	1629.7	1795.1	1954.4	2111.5	2256.8	2390.0	2519.1	2639.9	2745.5	2835.6	2909.9
55°	2017.4	2211.7	2394.7	2581.1	2759.2	2922.5	3058.6	3133.2	3198.6	3254.4	3300.4
52.5°	2422.1	2655.8	2878.5	3067.8	3177.0	3277.4	3368.5	3446.7	3514.7	3572.9	3620.8
50°	2867.7	3087.6	3223.3	3350.5	3464.8	3568.5	3662.7	3796.4	3961.4	4102.6	4219.2
47.5°	3192.8	3347.0	3487.8	3618.4	3780.8	4030.7	4258.2	4520.1	5012.8	5434.9	5784.0
45°	3434.4	3591.7	3782.4	4095.3	4387.3	5055.5	5731.4	6338.4	7871.1	9325.2	10529.3
42.5°	3662.0	3981.0	4336.6	5097.1	5959.3	7504.9	9817.9	11899.4	14036.8	16075.4	17766.2
40°	4101.6	4624.5	5667.6	7177.3	10109.6	12867.9	16087.6	18992.2	21572.0	23818.6	25685.3
37.5°	4851.5	6014.8	8672.8	12012.8	15866.7	19640.4	23143.0	26328.0	29145.5	31382.4	33245.2
35°	6131.3	9428.9	13309.4	17907.1	22265.1	26375.2	30074.0	33228.2	36033.7	38677.5	40943.5
32.5°	9428.9	13812.6	18940.1	23878.8	28580.1	32660.9	36399.4	40175.6	43571.1	47222.6	50895.6
30°	13309.4	18940.1	24421.5	29646.4	34244.4	38796.3	43285.7	48516.1	53987.5	59066.1	64158.3
27.5°	17907.1	23878.8	29646.4	34777.6	40028.4	45251.1	52419.8	59380.6	66912.8	73519.6	79385.3
25°	22265.1	28580.1	34244.4	40028.4	46208.4	54409.4	63309.1	72338.2	80880.2	88472.7	94954.2
22.5°	26375.2	32660.9	38796.3	45251.1	54409.4	64637.3	75194.3	85446.2	94834.6	103207.8	110758.6
20°	30074.0	36399.4	43285.7	52419.8	63309.1	75194.3	86994.8	98113.1	108515.5	118796.1	127917.5
17.5°	33228.2	40175.6	48516.1	59380.6	72338.2	85446.2	98113.1	110480.5	122963.1	135434.2	146691.1
15°	36033.7	43571.1	53987.5	66912.8	80880.2	94834.6	108515.5	122963.1	138012.5	152898.6	167267.3
12.5°	38677.5	47222.6	59066.1	73519.6	88472.7	103207.8	118796.1	135434.2	152898.6	170757.1	185346.9
10°	40943.5	50895.6	64158.3	79385.3	94954.2	110758.6	127917.5	146691.1	167267.3	185346.9	200088.4
7.5°	42735.9	53809.0	68211.0	84074.5	100171.2	117239.1	136167.0	157202.9	178548.9	196969.7	208905.6
5°	44033.0	55921.8	71158.2	87496.4	103995.1	122016.7	142295.9	165165.9	186793.4	203969.4	214257.2
2.5°	44818.1	57202.8	72948.5	89580.2	106331.1	124947.7	146077.8	170119.9	191984.3	207684.9	217159.5
0°	45081.0	57632.0	73549.0	90280.0	107117.0	125936.0	147357.0	171803.1	193760.1	208800.6	218149.1
-2.5°	44818.1	57202.8	72948.5	89580.2	106331.1	124947.7	146077.8	170119.9	191984.3	207684.9	217159.5
-5°	44033.0	55921.8	71158.2	87496.4	103995.1	122016.7	142295.9	165165.9	186793.4	203969.4	214257.2
-7.5°	42735.9	53809.0	68211.0	84074.5	100171.2	117239.1	136167.0	157202.9	178548.9	196969.7	208905.6
-10°	40943.5	50895.6	64158.3	79385.3	94954.2	110758.6	127917.5	146691.1	167267.3	185346.9	200088.4
-12.5°	38677.5	47222.6	59066.1	73519.6	88472.7	103207.8	118796.1	135434.2	152898.6	170757.1	185346.9
-15°	36033.7	43571.1	53987.5	66912.8	80880.2	94834.6	108515.5	122963.1	138012.5	152898.6	167267.3
-17.5°	33228.2	40175.6	48516.1	59380.6	72338.2	85446.2	98113.1	110480.5	122963.1	135434.2	146691.1
-20°	30074.0	36399.4	43285.7	52419.8	63309.1	75194.3	86994.8	98113.1	108515.5	118796.1	127917.5



REPORT NUMBER: P1212082 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	26375.2	32660.9	38796.3	45251.1	54409.4	64637.3	75194.3	85446.2	94834.6	103207.8	110758.6
-25°	22265.1	28580.1	34244.4	40028.4	46208.4	54409.4	63309.1	72338.2	80880.2	88472.7	94954.2
-27.5°	17907.1	23878.8	29646.4	34777.6	40028.4	45251.1	52419.8	59380.6	66912.8	73519.6	79385.3
-30°	13309.4	18940.1	24421.5	29646.4	34244.4	38796.3	43285.7	48516.1	53987.5	59066.1	64158.3
-32.5°	9428.9	13812.6	18940.1	23878.8	28580.1	32660.9	36399.4	40175.6	43571.1	47222.6	50895.6
-35°	6131.3	9428.9	13309.4	17907.1	22265.1	26375.2	30074.0	33228.2	36033.7	38677.5	40943.5
-37.5°	4851.5	6014.8	8672.8	12012.8	15866.7	19640.4	23143.0	26328.0	29145.5	31382.4	33245.2
-40°	4101.6	4624.5	5667.6	7177.3	10109.6	12867.9	16087.6	18992.2	21572.0	23818.6	25685.3
-42.5°	3662.0	3981.0	4336.6	5097.1	5959.3	7504.9	9817.9	11899.4	14036.8	16075.4	17766.2
-45°	3434.4	3591.7	3782.4	4095.3	4387.3	5055.5	5731.4	6338.4	7871.1	9325.2	10529.3
-47.5°	3192.8	3347.0	3487.8	3618.4	3780.8	4030.7	4258.2	4520.1	5012.8	5434.9	5784.0
-50°	2867.7	3087.6	3223.3	3350.5	3464.8	3568.5	3662.7	3796.4	3961.4	4102.6	4219.2
-52.5°	2422.1	2655.8	2878.5	3067.8	3177.0	3277.4	3368.5	3446.7	3514.7	3572.9	3620.8
-55°	2017.4	2211.7	2394.7	2581.1	2759.2	2922.5	3058.6	3133.2	3198.6	3254.4	3300.4
-57.5°	1629.7	1795.1	1954.4	2111.5	2256.8	2390.0	2519.1	2639.9	2745.5	2835.6	2909.9
-60°	1260.7	1398.5	1539.7	1672.4	1795.1	1907.6	2017.4	2115.2	2200.7	2273.5	2333.5
-62.5°	918.2	1033.6	1151.2	1260.7	1361.9	1459.0	1550.9	1632.8	1704.3	1765.2	1815.3
-65°	632.8	723.6	808.7	887.9	961.8	1045.0	1120.2	1187.0	1245.4	1295.0	1335.9
-67.5°	426.3	481.3	532.8	580.6	638.5	698.1	751.8	799.6	841.2	876.7	905.9
-70°	270.8	303.1	333.4	366.7	405.7	441.2	473.2	501.7	526.5	547.6	565.0
-72.5°	158.4	175.7	194.2	218.6	241.1	261.7	280.2	296.6	310.9	323.1	333.1
-75°	83.3	92.3	106.1	118.9	130.7	141.4	151.0	159.6	167.1	173.5	178.7
-77.5°	46.8	52.3	57.5	62.2	66.6	70.6	74.2	77.4	80.2	82.6	84.5
-80°	27.0	29.1	31.1	33.0	34.7	36.2	37.6	38.9	40.0	40.9	41.6
-82.5°	16.6	17.2	17.8	18.3	18.7	19.2	19.5	19.9	20.2	20.4	20.6
-85°	12.3	12.4	12.5	12.5	12.6	12.7	12.8	12.8	12.9	12.9	12.9
-87.5°	9.0	9.3	9.5	9.8	10.0	10.2	10.3	10.5	10.6	10.7	10.8
-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: P1212082 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.9	11.0	11.0	11.0	11.0	11.0	10.9	10.8	10.7	10.6	10.5
85°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.9	12.9	12.9	12.8
82.5°	20.8	20.9	21.0	21.0	21.0	20.9	20.8	20.6	20.4	20.2	19.9
80°	42.2	42.7	42.9	43.0	42.9	42.7	42.2	41.6	40.9	40.0	38.9
77.5°	86.0	87.1	87.8	88.0	87.8	87.1	86.0	84.5	82.6	80.2	77.4
75°	182.7	185.7	187.4	188.0	187.4	185.7	182.7	178.7	173.5	167.1	159.6
72.5°	340.9	346.5	349.9	351.0	349.9	346.5	340.9	333.1	323.1	310.9	296.6
70°	578.5	588.2	594.1	596.0	594.1	588.2	578.5	565.0	547.6	526.5	501.7
67.5°	928.6	944.9	954.7	958.0	954.7	944.9	928.6	905.9	876.7	841.2	799.6
65°	1367.8	1390.7	1404.4	1409.0	1404.4	1390.7	1367.8	1335.9	1295.0	1245.4	1187.0
62.5°	1854.4	1882.5	1899.4	1905.0	1899.4	1882.5	1854.4	1815.3	1765.2	1704.3	1632.8
60°	2380.4	2414.0	2434.3	2441.0	2434.3	2414.0	2380.4	2333.5	2273.5	2200.7	2115.2
57.5°	2967.9	3009.6	3034.6	3043.0	3034.6	3009.6	2967.9	2909.9	2835.6	2745.5	2639.9
55°	3336.4	3362.3	3377.8	3383.0	3377.8	3362.3	3336.4	3300.4	3254.4	3198.6	3133.2
52.5°	3658.4	3685.3	3701.6	3707.0	3701.6	3685.3	3658.4	3620.8	3572.9	3514.7	3446.7
50°	4310.6	4376.2	4415.8	4429.0	4415.8	4376.2	4310.6	4219.2	4102.6	3961.4	3796.4
47.5°	6057.8	6254.7	6373.4	6413.0	6373.4	6254.7	6057.8	5784.0	5434.9	5012.8	4520.1
45°	11474.9	12155.5	12565.9	12703.0	12565.9	12155.5	11474.9	10529.3	9325.2	7871.1	6338.4
42.5°	19095.9	20053.7	20631.8	20825.0	20631.8	20053.7	19095.9	17766.2	16075.4	14036.8	11899.4
40°	27155.7	28216.3	28856.8	29071.0	28856.8	28216.3	27155.7	25685.3	23818.6	21572.0	18992.2
37.5°	34715.3	35777.2	36419.2	36634.0	36419.2	35777.2	34715.3	33245.2	31382.4	29145.5	26328.0
35°	42735.9	44033.0	44818.1	45081.0	44818.1	44033.0	42735.9	40943.5	38677.5	36033.7	33228.2
32.5°	53809.0	55921.8	57202.8	57632.0	57202.8	55921.8	53809.0	50895.6	47222.6	43571.1	40175.6
30°	68211.0	71158.2	72948.5	73549.0	72948.5	71158.2	68211.0	64158.3	59066.1	53987.5	48516.1
27.5°	84074.5	87496.4	89580.2	90280.0	89580.2	87496.4	84074.5	79385.3	73519.6	66912.8	59380.6
25°	100171.2	103995.1	106331.1	107117.0	106331.1	103995.1	100171.2	94954.2	88472.7	80880.2	72338.2
22.5°	117239.1	122016.7	124947.7	125936.0	124947.7	122016.7	117239.1	110758.6	103207.8	94834.6	85446.2
20°	136167.0	142295.9	146077.8	147357.0	146077.8	142295.9	136167.0	127917.5	118796.1	108515.5	98113.1
17.5°	157202.9	165165.9	170119.9	171803.1	170119.9	165165.9	157202.9	146691.1	135434.2	122963.1	110480.5
15°	178548.9	186793.4	191984.3	193760.1	191984.3	186793.4	178548.9	167267.3	152898.6	138012.5	122963.1
12.5°	196969.7	203969.4	207684.9	208800.6	207684.9	203969.4	196969.7	185346.9	170757.1	152898.6	135434.2
10°	208905.6	214257.2	217159.5	218149.1	217159.5	214257.2	208905.6	200088.4	185346.9	167267.3	146691.1
7.5°	216228.2	221071.6	223717.2	224595.1	223717.2	221071.6	216228.2	208905.6	196969.7	178548.9	157202.9
5°	221071.6	225538.2	227851.0	228601.1	227851.0	225538.2	221071.6	214257.2	203969.4	186793.4	165165.9
2.5°	223717.2	227851.0	229522.8	229566.6	229522.8	227851.0	223717.2	217159.5	207684.9	191984.3	170119.9
0°	224595.1	228601.1	229566.6	229288.1	229566.6	228601.1	224595.1	218149.1	208800.6	193760.1	171803.1
-2.5°	223717.2	227851.0	229522.8	229566.6	229522.8	227851.0	223717.2	217159.5	207684.9	191984.3	170119.9
-5°	221071.6	225538.2	227851.0	228601.1	227851.0	225538.2	221071.6	214257.2	203969.4	186793.4	165165.9
-7.5°	216228.2	221071.6	223717.2	224595.1	223717.2	221071.6	216228.2	208905.6	196969.7	178548.9	157202.9
-10°	208905.6	214257.2	217159.5	218149.1	217159.5	214257.2	208905.6	200088.4	185346.9	167267.3	146691.1
-12.5°	196969.7	203969.4	207684.9	208800.6	207684.9	203969.4	196969.7	185346.9	170757.1	152898.6	135434.2
-15°	178548.9	186793.4	191984.3	193760.1	191984.3	186793.4	178548.9	167267.3	152898.6	138012.5	122963.1
-17.5°	157202.9	165165.9	170119.9	171803.1	170119.9	165165.9	157202.9	146691.1	135434.2	122963.1	110480.5
-20°	136167.0	142295.9	146077.8	147357.0	146077.8	142295.9	136167.0	127917.5	118796.1	108515.5	98113.1



REPORT NUMBER: P1212082 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	117239.1	122016.7	124947.7	125936.0	124947.7	122016.7	117239.1	110758.6	103207.8	94834.6	85446.2
-25°	100171.2	103995.1	106331.1	107117.0	106331.1	103995.1	100171.2	94954.2	88472.7	80880.2	72338.2
-27.5°	84074.5	87496.4	89580.2	90280.0	89580.2	87496.4	84074.5	79385.3	73519.6	66912.8	59380.6
-30°	68211.0	71158.2	72948.5	73549.0	72948.5	71158.2	68211.0	64158.3	59066.1	53987.5	48516.1
-32.5°	53809.0	55921.8	57202.8	57632.0	57202.8	55921.8	53809.0	50895.6	47222.6	43571.1	40175.6
-35°	42735.9	44033.0	44818.1	45081.0	44818.1	44033.0	42735.9	40943.5	38677.5	36033.7	33228.2
-37.5°	34715.3	35777.2	36419.2	36634.0	36419.2	35777.2	34715.3	33245.2	31382.4	29145.5	26328.0
-40°	27155.7	28216.3	28856.8	29071.0	28856.8	28216.3	27155.7	25685.3	23818.6	21572.0	18992.2
-42.5°	19095.9	20053.7	20631.8	20825.0	20631.8	20053.7	19095.9	17766.2	16075.4	14036.8	11899.4
-45°	11474.9	12155.5	12565.9	12703.0	12565.9	12155.5	11474.9	10529.3	9325.2	7871.1	6338.4
-47.5°	6057.8	6254.7	6373.4	6413.0	6373.4	6254.7	6057.8	5784.0	5434.9	5012.8	4520.1
-50°	4310.6	4376.2	4415.8	4429.0	4415.8	4376.2	4310.6	4219.2	4102.6	3961.4	3796.4
-52.5°	3658.4	3685.3	3701.6	3707.0	3701.6	3685.3	3658.4	3620.8	3572.9	3514.7	3446.7
-55°	3336.4	3362.3	3377.8	3383.0	3377.8	3362.3	3336.4	3300.4	3254.4	3198.6	3133.2
-57.5°	2967.9	3009.6	3034.6	3043.0	3034.6	3009.6	2967.9	2909.9	2835.6	2745.5	2639.9
-60°	2380.4	2414.0	2434.3	2441.0	2434.3	2414.0	2380.4	2333.5	2273.5	2200.7	2115.2
-62.5°	1854.4	1882.5	1899.4	1905.0	1899.4	1882.5	1854.4	1815.3	1765.2	1704.3	1632.8
-65°	1367.8	1390.7	1404.4	1409.0	1404.4	1390.7	1367.8	1335.9	1295.0	1245.4	1187.0
-67.5°	928.6	944.9	954.7	958.0	954.7	944.9	928.6	905.9	876.7	841.2	799.6
-70°	578.5	588.2	594.1	596.0	594.1	588.2	578.5	565.0	547.6	526.5	501.7
-72.5°	340.9	346.5	349.9	351.0	349.9	346.5	340.9	333.1	323.1	310.9	296.6
-75°	182.7	185.7	187.4	188.0	187.4	185.7	182.7	178.7	173.5	167.1	159.6
-77.5°	86.0	87.1	87.8	88.0	87.8	87.1	86.0	84.5	82.6	80.2	77.4
-80°	42.2	42.7	42.9	43.0	42.9	42.7	42.2	41.6	40.9	40.0	38.9
-82.5°	20.8	20.9	21.0	21.0	21.0	20.9	20.8	20.6	20.4	20.2	19.9
-85°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.9	12.9	12.9	12.8
-87.5°	10.9	11.0	11.0	11.0	11.0	11.0	10.9	10.8	10.7	10.6	10.5
-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: P1212082 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	10.2	10.0	9.8	9.5	9.3	9.0	8.7	8.4	8.1	7.8
85°	12.8	12.7	12.6	12.5	12.5	12.4	12.3	12.2	12.1	11.9	11.8
82.5°	19.5	19.2	18.7	18.3	17.8	17.2	16.6	16.0	15.4	14.7	13.9
80°	37.6	36.2	34.7	33.0	31.1	29.1	27.0	24.7	22.3	20.5	19.6
77.5°	74.2	70.6	66.6	62.2	57.5	52.3	46.8	42.0	39.0	35.8	32.5
75°	151.0	141.4	130.7	118.9	106.1	92.3	83.3	76.3	68.8	61.0	52.8
72.5°	280.2	261.7	241.1	218.6	194.2	175.7	158.4	140.1	120.7	100.4	84.0
70°	473.2	441.2	405.7	366.7	333.4	303.1	270.8	236.5	200.3	172.2	147.8
67.5°	751.8	698.1	638.5	580.6	532.8	481.3	426.3	368.1	321.5	278.5	233.6
65°	1120.2	1045.0	961.8	887.9	808.7	723.6	632.8	555.8	487.2	415.2	343.7
62.5°	1550.9	1459.0	1361.9	1260.7	1151.2	1033.6	918.2	811.7	699.5	586.5	503.6
60°	2017.4	1907.6	1795.1	1672.4	1539.7	1398.5	1260.7	1115.1	961.8	832.3	698.1
57.5°	2519.1	2390.0	2256.8	2111.5	1954.4	1795.1	1629.7	1454.8	1283.6	1109.0	933.3
55°	3058.6	2922.5	2759.2	2581.1	2394.7	2211.7	2017.4	1819.3	1620.2	1412.3	1215.5
52.5°	3368.5	3277.4	3177.0	3067.8	2878.5	2655.8	2422.1	2200.7	1968.6	1740.0	1507.5
50°	3662.7	3568.5	3464.8	3350.5	3223.3	3087.6	2867.7	2600.2	2333.5	2074.1	1812.5
47.5°	4258.2	4030.7	3780.8	3618.4	3487.8	3347.0	3192.8	3021.5	2722.0	2414.0	2127.2
45°	5731.4	5055.5	4387.3	4095.3	3782.4	3591.7	3434.4	3263.9	3083.5	2783.4	2441.0
42.5°	9817.9	7504.9	5959.3	5097.1	4336.6	3981.0	3662.0	3486.3	3299.7	3101.1	2783.4
40°	16087.6	12867.9	10109.6	7177.3	5667.6	4624.5	4101.6	3697.5	3503.8	3299.7	3083.5
37.5°	23143.0	19640.4	15866.7	12012.8	8672.8	6014.8	4851.5	4142.1	3697.5	3486.3	3263.9
35°	30074.0	26375.2	22265.1	17907.1	13309.4	9428.9	6131.3	4851.5	4101.6	3662.0	3434.4
32.5°	36399.4	32660.9	28580.1	23878.8	18940.1	13812.6	9428.9	6014.8	4624.5	3981.0	3591.7
30°	43285.7	38796.3	34244.4	29646.4	24421.5	18940.1	13309.4	8672.8	5667.6	4336.6	3782.4
27.5°	52419.8	45251.1	40028.4	34777.6	29646.4	23878.8	17907.1	12012.8	7177.3	5097.1	4095.3
25°	63309.1	54409.4	46208.4	40028.4	34244.4	28580.1	22265.1	15866.7	10109.6	5959.3	4387.3
22.5°	75194.3	64637.3	54409.4	45251.1	38796.3	32660.9	26375.2	19640.4	12867.9	7504.9	5055.5
20°	86994.8	75194.3	63309.1	52419.8	43285.7	36399.4	30074.0	23143.0	16087.6	9817.9	5731.4
17.5°	98113.1	85446.2	72338.2	59380.6	48516.1	40175.6	33228.2	26328.0	18992.2	11899.4	6338.4
15°	108515.5	94834.6	80880.2	66912.8	53987.5	43571.1	36033.7	29145.5	21572.0	14036.8	7871.1
12.5°	118796.1	103207.8	88472.7	73519.6	59066.1	47222.6	38677.5	31382.4	23818.6	16075.4	9325.2
10°	127917.5	110758.6	94954.2	79385.3	64158.3	50895.6	40943.5	33245.2	25685.3	17766.2	10529.3
7.5°	136167.0	117239.1	100171.2	84074.5	68211.0	53809.0	42735.9	34715.3	27155.7	19095.9	11474.9
5°	142295.9	122016.7	103995.1	87496.4	71158.2	55921.8	44033.0	35777.2	28216.3	20053.7	12155.5
2.5°	146077.8	124947.7	106331.1	89580.2	72948.5	57202.8	44818.1	36419.2	28856.8	20631.8	12565.9
0°	147357.0	125936.0	107117.0	90280.0	73549.0	57632.0	45081.0	36634.0	29071.0	20825.0	12703.0
-2.5°	146077.8	124947.7	106331.1	89580.2	72948.5	57202.8	44818.1	36419.2	28856.8	20631.8	12565.9
-5°	142295.9	122016.7	103995.1	87496.4	71158.2	55921.8	44033.0	35777.2	28216.3	20053.7	12155.5
-7.5°	136167.0	117239.1	100171.2	84074.5	68211.0	53809.0	42735.9	34715.3	27155.7	19095.9	11474.9
-10°	127917.5	110758.6	94954.2	79385.3	64158.3	50895.6	40943.5	33245.2	25685.3	17766.2	10529.3
-12.5°	118796.1	103207.8	88472.7	73519.6	59066.1	47222.6	38677.5	31382.4	23818.6	16075.4	9325.2
-15°	108515.5	94834.6	80880.2	66912.8	53987.5	43571.1	36033.7	29145.5	21572.0	14036.8	7871.1
-17.5°	98113.1	85446.2	72338.2	59380.6	48516.1	40175.6	33228.2	26328.0	18992.2	11899.4	6338.4
-20°	86994.8	75194.3	63309.1	52419.8	43285.7	36399.4	30074.0	23143.0	16087.6	9817.9	5731.4



REPORT NUMBER: P1212082 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	75194.3	64637.3	54409.4	45251.1	38796.3	32660.9	26375.2	19640.4	12867.9	7504.9	5055.5
-25°	63309.1	54409.4	46208.4	40028.4	34244.4	28580.1	22265.1	15866.7	10109.6	5959.3	4387.3
-27.5°	52419.8	45251.1	40028.4	34777.6	29646.4	23878.8	17907.1	12012.8	7177.3	5097.1	4095.3
-30°	43285.7	38796.3	34244.4	29646.4	24421.5	18940.1	13309.4	8672.8	5667.6	4336.6	3782.4
-32.5°	36399.4	32660.9	28580.1	23878.8	18940.1	13812.6	9428.9	6014.8	4624.5	3981.0	3591.7
-35°	30074.0	26375.2	22265.1	17907.1	13309.4	9428.9	6131.3	4851.5	4101.6	3662.0	3434.4
-37.5°	23143.0	19640.4	15866.7	12012.8	8672.8	6014.8	4851.5	4142.1	3697.5	3486.3	3263.9
-40°	16087.6	12867.9	10109.6	7177.3	5667.6	4624.5	4101.6	3697.5	3503.8	3299.7	3083.5
-42.5°	9817.9	7504.9	5959.3	5097.1	4336.6	3981.0	3662.0	3486.3	3299.7	3101.1	2783.4
-45°	5731.4	5055.5	4387.3	4095.3	3782.4	3591.7	3434.4	3263.9	3083.5	2783.4	2441.0
-47.5°	4258.2	4030.7	3780.8	3618.4	3487.8	3347.0	3192.8	3021.5	2722.0	2414.0	2127.2
-50°	3662.7	3568.5	3464.8	3350.5	3223.3	3087.6	2867.7	2600.2	2333.5	2074.1	1812.5
-52.5°	3368.5	3277.4	3177.0	3067.8	2878.5	2655.8	2422.1	2200.7	1968.6	1740.0	1507.5
-55°	3058.6	2922.5	2759.2	2581.1	2394.7	2211.7	2017.4	1819.3	1620.2	1412.3	1215.5
-57.5°	2519.1	2390.0	2256.8	2111.5	1954.4	1795.1	1629.7	1454.8	1283.6	1109.0	933.3
-60°	2017.4	1907.6	1795.1	1672.4	1539.7	1398.5	1260.7	1115.1	961.8	832.3	698.1
-62.5°	1550.9	1459.0	1361.9	1260.7	1151.2	1033.6	918.2	811.7	699.5	586.5	503.6
-65°	1120.2	1045.0	961.8	887.9	808.7	723.6	632.8	555.8	487.2	415.2	343.7
-67.5°	751.8	698.1	638.5	580.6	532.8	481.3	426.3	368.1	321.5	278.5	233.6
-70°	473.2	441.2	405.7	366.7	333.4	303.1	270.8	236.5	200.3	172.2	147.8
-72.5°	280.2	261.7	241.1	218.6	194.2	175.7	158.4	140.1	120.7	100.4	84.0
-75°	151.0	141.4	130.7	118.9	106.1	92.3	83.3	76.3	68.8	61.0	52.8
-77.5°	74.2	70.6	66.6	62.2	57.5	52.3	46.8	42.0	39.0	35.8	32.5
-80°	37.6	36.2	34.7	33.0	31.1	29.1	27.0	24.7	22.3	20.5	19.6
-82.5°	19.5	19.2	18.7	18.3	17.8	17.2	16.6	16.0	15.4	14.7	13.9
-85°	12.8	12.7	12.6	12.5	12.5	12.4	12.3	12.2	12.1	11.9	11.8
-87.5°	10.3	10.2	10.0	9.8	9.5	9.3	9.0	8.7	8.4	8.1	7.8
-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: P1212082 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS12-1000R-40-70-5S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	7.1	6.7	6.3	5.9	5.5	5.1	4.6	4.2	3.8	3.3
85°	11.7	11.6	11.4	11.3	11.1	11.0	10.1	9.3	8.4	7.5	6.6
82.5°	13.2	12.9	12.6	12.4	12.2	12.0	11.8	11.5	11.3	11.0	9.9
80°	18.6	17.5	16.4	15.3	14.1	13.0	12.7	12.4	12.0	11.7	11.4
77.5°	29.0	25.4	21.6	19.8	18.4	16.9	15.4	13.8	12.8	12.4	12.0
75°	44.3	39.3	34.8	30.1	25.3	20.8	19.0	17.1	15.2	13.3	12.6
72.5°	74.0	63.6	52.9	42.4	36.8	31.1	25.2	20.4	18.1	15.9	13.6
70°	122.4	96.0	79.3	66.6	53.6	41.6	35.0	28.1	21.2	18.5	15.9
67.5°	187.3	157.6	126.9	95.2	76.6	61.6	46.2	36.9	29.1	21.2	18.1
65°	291.7	237.7	184.3	149.1	113.0	82.6	65.6	48.2	36.9	28.1	20.4
62.5°	417.3	335.7	274.4	211.3	162.6	121.9	84.6	65.6	46.2	35.0	25.2
60°	570.8	473.2	372.6	296.6	226.1	167.1	121.9	82.6	61.6	41.6	31.1
57.5°	782.0	625.6	507.0	395.1	304.0	226.1	162.6	113.0	76.6	53.6	36.8
55°	1012.0	832.7	659.2	518.3	395.1	296.6	211.3	149.1	95.2	66.6	42.4
52.5°	1280.0	1054.6	849.7	659.2	507.0	372.6	274.4	184.3	126.9	79.3	52.9
50°	1555.5	1301.6	1054.6	832.7	625.6	473.2	335.7	237.7	157.6	96.0	63.6
47.5°	1836.8	1555.5	1280.0	1012.0	782.0	570.8	417.3	291.7	187.3	122.4	74.0
45°	2127.2	1812.5	1507.5	1215.5	933.3	698.1	503.6	343.7	233.6	147.8	84.0
42.5°	2414.0	2074.1	1740.0	1412.3	1109.0	832.3	586.5	415.2	278.5	172.2	100.4
40°	2722.0	2333.5	1968.6	1620.2	1283.6	961.8	699.5	487.2	321.5	200.3	120.7
37.5°	3021.5	2600.2	2200.7	1819.3	1454.8	1115.1	811.7	555.8	368.1	236.5	140.1
35°	3192.8	2867.7	2422.1	2017.4	1629.7	1260.7	918.2	632.8	426.3	270.8	158.4
32.5°	3347.0	3087.6	2655.8	2211.7	1795.1	1398.5	1033.6	723.6	481.3	303.1	175.7
30°	3487.8	3223.3	2878.5	2394.7	1954.4	1539.7	1151.2	808.7	532.8	333.4	194.2
27.5°	3618.4	3350.5	3067.8	2581.1	2111.5	1672.4	1260.7	887.9	580.6	366.7	218.6
25°	3780.8	3464.8	3177.0	2759.2	2256.8	1795.1	1361.9	961.8	638.5	405.7	241.1
22.5°	4030.7	3568.5	3277.4	2922.5	2390.0	1907.6	1459.0	1045.0	698.1	441.2	261.7
20°	4258.2	3662.7	3368.5	3058.6	2519.1	2017.4	1550.9	1120.2	751.8	473.2	280.2
17.5°	4520.1	3796.4	3446.7	3133.2	2639.9	2115.2	1632.8	1187.0	799.6	501.7	296.6
15°	5012.8	3961.4	3514.7	3198.6	2745.5	2200.7	1704.3	1245.4	841.2	526.5	310.9
12.5°	5434.9	4102.6	3572.9	3254.4	2835.6	2273.5	1765.2	1295.0	876.7	547.6	323.1
10°	5784.0	4219.2	3620.8	3300.4	2909.9	2333.5	1815.3	1335.9	905.9	565.0	333.1
7.5°	6057.8	4310.6	3658.4	3336.4	2967.9	2380.4	1854.4	1367.8	928.6	578.5	340.9
5°	6254.7	4376.2	3685.3	3362.3	3009.6	2414.0	1882.5	1390.7	944.9	588.2	346.5
2.5°	6373.4	4415.8	3701.6	3377.8	3034.6	2434.3	1899.4	1404.4	954.7	594.1	349.9
0°	6413.0	4429.0	3707.0	3383.0	3043.0	2441.0	1905.0	1409.0	958.0	596.0	351.0
-2.5°	6373.4	4415.8	3701.6	3377.8	3034.6	2434.3	1899.4	1404.4	954.7	594.1	349.9
-5°	6254.7	4376.2	3685.3	3362.3	3009.6	2414.0	1882.5	1390.7	944.9	588.2	346.5
-7.5°	6057.8	4310.6	3658.4	3336.4	2967.9	2380.4	1854.4	1367.8	928.6	578.5	340.9
-10°	5784.0	4219.2	3620.8	3300.4	2909.9	2333.5	1815.3	1335.9	905.9	565.0	333.1
-12.5°	5434.9	4102.6	3572.9	3254.4	2835.6	2273.5	1765.2	1295.0	876.7	547.6	323.1
-15°	5012.8	3961.4	3514.7	3198.6	2745.5	2200.7	1704.3	1245.4	841.2	526.5	310.9
-17.5°	4520.1	3796.4	3446.7	3133.2	2639.9	2115.2	1632.8	1187.0	799.6	501.7	296.6
-20°	4258.2	3662.7	3368.5	3058.6	2519.1	2017.4	1550.9	1120.2	751.8	473.2	280.2



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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°	4030.7	3568.5	3277.4	2922.5	2390.0	1907.6	1459.0	1045.0	698.1	441.2	261.7
-25°	3780.8	3464.8	3177.0	2759.2	2256.8	1795.1	1361.9	961.8	638.5	405.7	241.1
-27.5°	3618.4	3350.5	3067.8	2581.1	2111.5	1672.4	1260.7	887.9	580.6	366.7	218.6
-30°	3487.8	3223.3	2878.5	2394.7	1954.4	1539.7	1151.2	808.7	532.8	333.4	194.2
-32.5°	3347.0	3087.6	2655.8	2211.7	1795.1	1398.5	1033.6	723.6	481.3	303.1	175.7
-35°	3192.8	2867.7	2422.1	2017.4	1629.7	1260.7	918.2	632.8	426.3	270.8	158.4
-37.5°	3021.5	2600.2	2200.7	1819.3	1454.8	1115.1	811.7	555.8	368.1	236.5	140.1
-40°	2722.0	2333.5	1968.6	1620.2	1283.6	961.8	699.5	487.2	321.5	200.3	120.7
-42.5°	2414.0	2074.1	1740.0	1412.3	1109.0	832.3	586.5	415.2	278.5	172.2	100.4
-45°	2127.2	1812.5	1507.5	1215.5	933.3	698.1	503.6	343.7	233.6	147.8	84.0
-47.5°	1836.8	1555.5	1280.0	1012.0	782.0	570.8	417.3	291.7	187.3	122.4	74.0
-50°	1555.5	1301.6	1054.6	832.7	625.6	473.2	335.7	237.7	157.6	96.0	63.6
-52.5°	1280.0	1054.6	849.7	659.2	507.0	372.6	274.4	184.3	126.9	79.3	52.9
-55°	1012.0	832.7	659.2	518.3	395.1	296.6	211.3	149.1	95.2	66.6	42.4
-57.5°	782.0	625.6	507.0	395.1	304.0	226.1	162.6	113.0	76.6	53.6	36.8
-60°	570.8	473.2	372.6	296.6	226.1	167.1	121.9	82.6	61.6	41.6	31.1
-62.5°	417.3	335.7	274.4	211.3	162.6	121.9	84.6	65.6	46.2	35.0	25.2
-65°	291.7	237.7	184.3	149.1	113.0	82.6	65.6	48.2	36.9	28.1	20.4
-67.5°	187.3	157.6	126.9	95.2	76.6	61.6	46.2	36.9	29.1	21.2	18.1
-70°	122.4	96.0	79.3	66.6	53.6	41.6	35.0	28.1	21.2	18.5	15.9
-72.5°	74.0	63.6	52.9	42.4	36.8	31.1	25.2	20.4	18.1	15.9	13.6
-75°	44.3	39.3	34.8	30.1	25.3	20.8	19.0	17.1	15.2	13.3	12.6
-77.5°	29.0	25.4	21.6	19.8	18.4	16.9	15.4	13.8	12.8	12.4	12.0
-80°	18.6	17.5	16.4	15.3	14.1	13.0	12.7	12.4	12.0	11.7	11.4
-82.5°	13.2	12.9	12.6	12.4	12.2	12.0	11.8	11.5	11.3	11.0	9.9
-85°	11.7	11.6	11.4	11.3	11.1	11.0	10.1	9.3	8.4	7.5	6.6
-87.5°	7.4	7.1	6.7	6.3	5.9	5.5	5.1	4.6	4.2	3.8	3.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	2.4	1.9	1.4	1.0	0.5	0.0
85°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
82.5°	8.5	7.1	5.7	4.3	2.9	1.4	0.0
80°	11.1	9.5	7.6	5.7	3.8	1.9	0.0
77.5°	11.6	11.1	9.5	7.1	4.8	2.4	0.0
75°	12.1	11.6	11.1	8.5	5.7	2.8	0.0
72.5°	12.6	12.0	11.4	9.9	6.6	3.3	0.0
70°	13.3	12.4	11.7	11.0	7.5	3.8	0.0
67.5°	15.2	12.8	12.0	11.3	8.4	4.2	0.0
65°	17.1	13.8	12.4	11.5	9.3	4.6	0.0
62.5°	19.0	15.4	12.7	11.8	10.1	5.1	0.0
60°	20.8	16.9	13.0	12.0	11.0	5.5	0.0
57.5°	25.3	18.4	14.1	12.2	11.1	5.9	0.0
55°	30.1	19.8	15.3	12.4	11.3	6.3	0.0
52.5°	34.8	21.6	16.4	12.6	11.4	6.7	0.0
50°	39.3	25.4	17.5	12.9	11.6	7.1	0.0
47.5°	44.3	29.0	18.6	13.2	11.7	7.4	0.0
45°	52.8	32.5	19.6	13.9	11.8	7.8	0.0
42.5°	61.0	35.8	20.5	14.7	11.9	8.1	0.0
40°	68.8	39.0	22.3	15.4	12.1	8.4	0.0
37.5°	76.3	42.0	24.7	16.0	12.2	8.7	0.0
35°	83.3	46.8	27.0	16.6	12.3	9.0	0.0
32.5°	92.3	52.3	29.1	17.2	12.4	9.3	0.0
30°	106.1	57.5	31.1	17.8	12.5	9.5	0.0
27.5°	118.9	62.2	33.0	18.3	12.5	9.8	0.0
25°	130.7	66.6	34.7	18.7	12.6	10.0	0.0
22.5°	141.4	70.6	36.2	19.2	12.7	10.2	0.0
20°	151.0	74.2	37.6	19.5	12.8	10.3	0.0
17.5°	159.6	77.4	38.9	19.9	12.8	10.5	0.0
15°	167.1	80.2	40.0	20.2	12.9	10.6	0.0
12.5°	173.5	82.6	40.9	20.4	12.9	10.7	0.0
10°	178.7	84.5	41.6	20.6	12.9	10.8	0.0
7.5°	182.7	86.0	42.2	20.8	13.0	10.9	0.0
5°	185.7	87.1	42.7	20.9	13.0	11.0	0.0
2.5°	187.4	87.8	42.9	21.0	13.0	11.0	0.0
0°	188.0	88.0	43.0	21.0	13.0	11.0	0.0
-2.5°	187.4	87.8	42.9	21.0	13.0	11.0	0.0
-5°	185.7	87.1	42.7	20.9	13.0	11.0	0.0
-7.5°	182.7	86.0	42.2	20.8	13.0	10.9	0.0
-10°	178.7	84.5	41.6	20.6	12.9	10.8	0.0
-12.5°	173.5	82.6	40.9	20.4	12.9	10.7	0.0
-15°	167.1	80.2	40.0	20.2	12.9	10.6	0.0
-17.5°	159.6	77.4	38.9	19.9	12.8	10.5	0.0
-20°	151.0	74.2	37.6	19.5	12.8	10.3	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	141.4	70.6	36.2	19.2	12.7	10.2	0.0
-25°	130.7	66.6	34.7	18.7	12.6	10.0	0.0
-27.5°	118.9	62.2	33.0	18.3	12.5	9.8	0.0
-30°	106.1	57.5	31.1	17.8	12.5	9.5	0.0
-32.5°	92.3	52.3	29.1	17.2	12.4	9.3	0.0
-35°	83.3	46.8	27.0	16.6	12.3	9.0	0.0
-37.5°	76.3	42.0	24.7	16.0	12.2	8.7	0.0
-40°	68.8	39.0	22.3	15.4	12.1	8.4	0.0
-42.5°	61.0	35.8	20.5	14.7	11.9	8.1	0.0
-45°	52.8	32.5	19.6	13.9	11.8	7.8	0.0
-47.5°	44.3	29.0	18.6	13.2	11.7	7.4	0.0
-50°	39.3	25.4	17.5	12.9	11.6	7.1	0.0
-52.5°	34.8	21.6	16.4	12.6	11.4	6.7	0.0
-55°	30.1	19.8	15.3	12.4	11.3	6.3	0.0
-57.5°	25.3	18.4	14.1	12.2	11.1	5.9	0.0
-60°	20.8	16.9	13.0	12.0	11.0	5.5	0.0
-62.5°	19.0	15.4	12.7	11.8	10.1	5.1	0.0
-65°	17.1	13.8	12.4	11.5	9.3	4.6	0.0
-67.5°	15.2	12.8	12.0	11.3	8.4	4.2	0.0
-70°	13.3	12.4	11.7	11.0	7.5	3.8	0.0
-72.5°	12.6	12.0	11.4	9.9	6.6	3.3	0.0
-75°	12.1	11.6	11.1	8.5	5.7	2.8	0.0
-77.5°	11.6	11.1	9.5	7.1	4.8	2.4	0.0
-80°	11.1	9.5	7.6	5.7	3.8	1.9	0.0
-82.5°	8.5	7.1	5.7	4.3	2.9	1.4	0.0
-85°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
-87.5°	2.8	2.4	1.9	1.4	1.0	0.5	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)