

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

(formerly Eaton)

Brand: EPHESUS

Report Number: P1305386 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-640L-40-80-4S-HEG-A**

Issue Date: 2/3/2026

Test Information

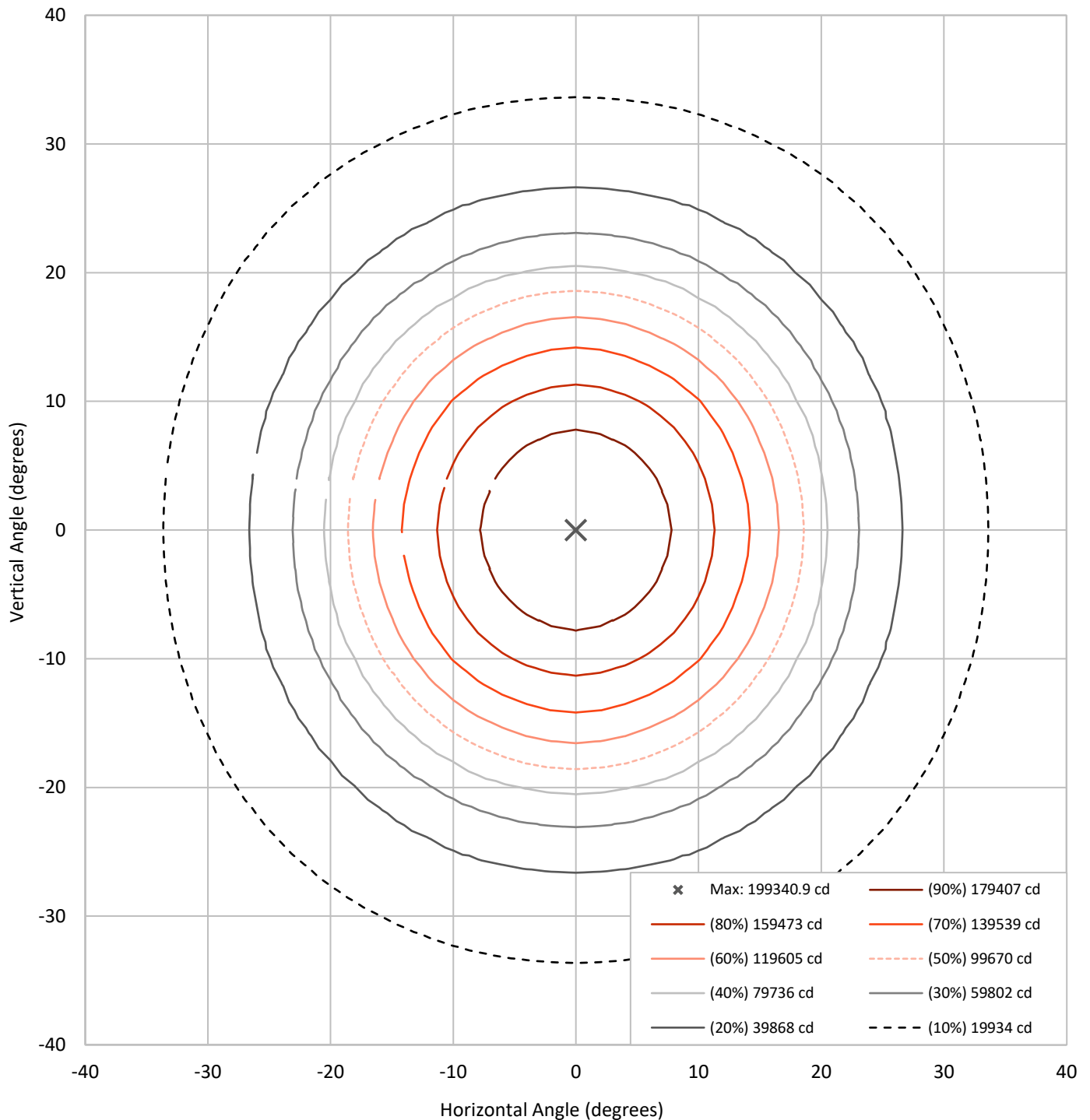
Test Method: LM-79-08
Report Number: P1305386 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-4)
Test Lab: INNOVATION CENTER
Issue Date: 2/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-08-640L-40-80-4S-HEG-A
Description: EPHEBUS LUMASPORT 8 LUMINAIRE
(8) 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:	92057.5 lumens	Max Intensity:	199340.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	142.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	37.2°H x 37.2°V	Field Angle (10%):	67.2°H x 67.2°V
Beam Lumens:	47924.3 lumens	Field Lumens:	80504.8 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%
Input Watts (W):	648		
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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Iso-Candela Plot





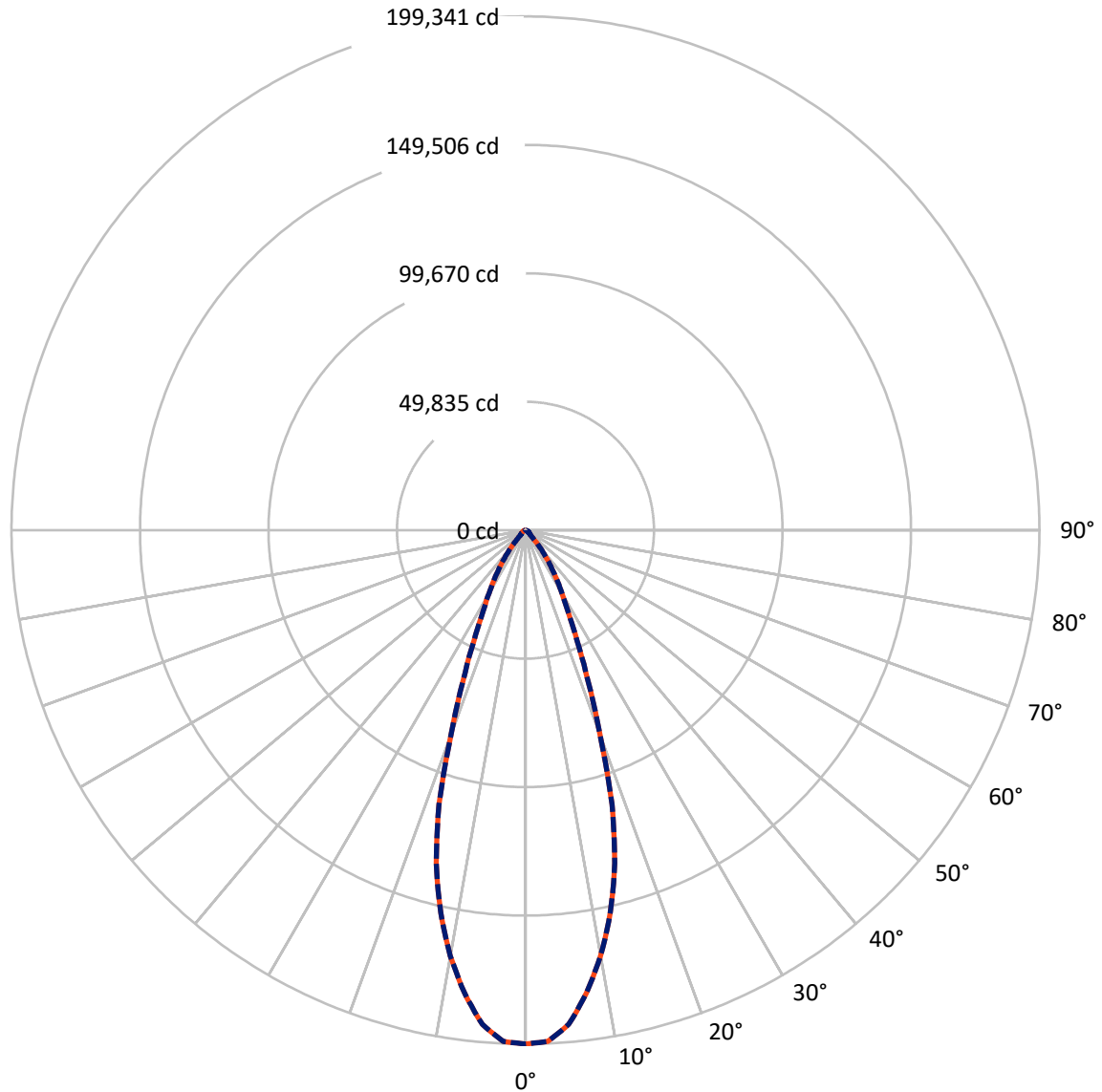
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Lumen Table

90	0.1	0.7	2.7	6.5	8.5	6.5	2.7	0.7	0.1							
80	0.1	0.7	2.7	6.5	8.5	6.5	2.7	0.7	0.1							
70	0.3	0.4	1.6	4.6	9.6	15.5	20.8	23.7	23.7	20.8	15.5	9.6	4.6	1.6	0.4	0.3
60		1.2	5.4	14.8	27.2	38.2	46.3	50.8	50.8	46.3	38.2	27.2	14.8	5.4	1.2	
50	0.9	2.8	12.1	27.6	42.9	59.5	85.5	112.8	112.8	85.5	59.5	42.9	27.6	12.1	2.8	0.9
40		5.1	19.2	37.1	64.4	173.2	366.4	508.3	508.3	366.4	173.2	64.4	37.1	19.2	5.1	
30	1.9	7.5	24.4	46.7	157.7	492.7	963.4	1432.6	1432.6	963.4	492.7	157.7	46.7	24.4	7.5	1.9
20		9.4	27.8	63.4	313.8	907.1	2246.6	3687.9	3687.9	2246.6	907.1	313.8	63.4	27.8	9.4	
10	2.4	10.4	29.5	81.6	422.4	1311.7	3583.6	5398.1	5398.1	3583.6	1311.7	422.4	81.6	29.5	10.4	2.4
0		10.4	29.5	81.6	422.4	1311.7	3583.6	5398.1	5398.1	3583.6	1311.7	422.4	81.6	29.5	10.4	
-10	1.9	9.4	27.8	63.4	313.8	907.1	2246.6	3687.9	3687.9	2246.6	907.1	313.8	63.4	27.8	9.4	1.9
-20		7.5	24.4	46.7	157.7	492.7	963.4	1432.6	1432.6	963.4	492.7	157.7	46.7	24.4	7.5	
-30	0.9	5.1	19.2	37.1	64.4	173.2	366.4	508.3	508.3	366.4	173.2	64.4	37.1	19.2	5.1	0.9
-40		2.8	12.1	27.6	42.9	59.5	85.5	112.8	112.8	85.5	59.5	42.9	27.6	12.1	2.8	
-50	0.3	1.2	5.4	14.8	27.2	38.2	46.3	50.8	50.8	46.3	38.2	27.2	14.8	5.4	1.2	0.3
-60		0.4	1.6	4.6	9.6	15.5	20.8	23.7	23.7	20.8	15.5	9.6	4.6	1.6	0.4	
-70	0.1	0.7	2.7	6.5	8.5	6.5	2.7	0.7	0.1							
-80		0.1	0.7	2.7	6.5	8.5	6.5	2.7	0.7	0.1						
-90	0.1	0.7	2.7	6.5	8.5	6.5	2.7	0.7	0.1							

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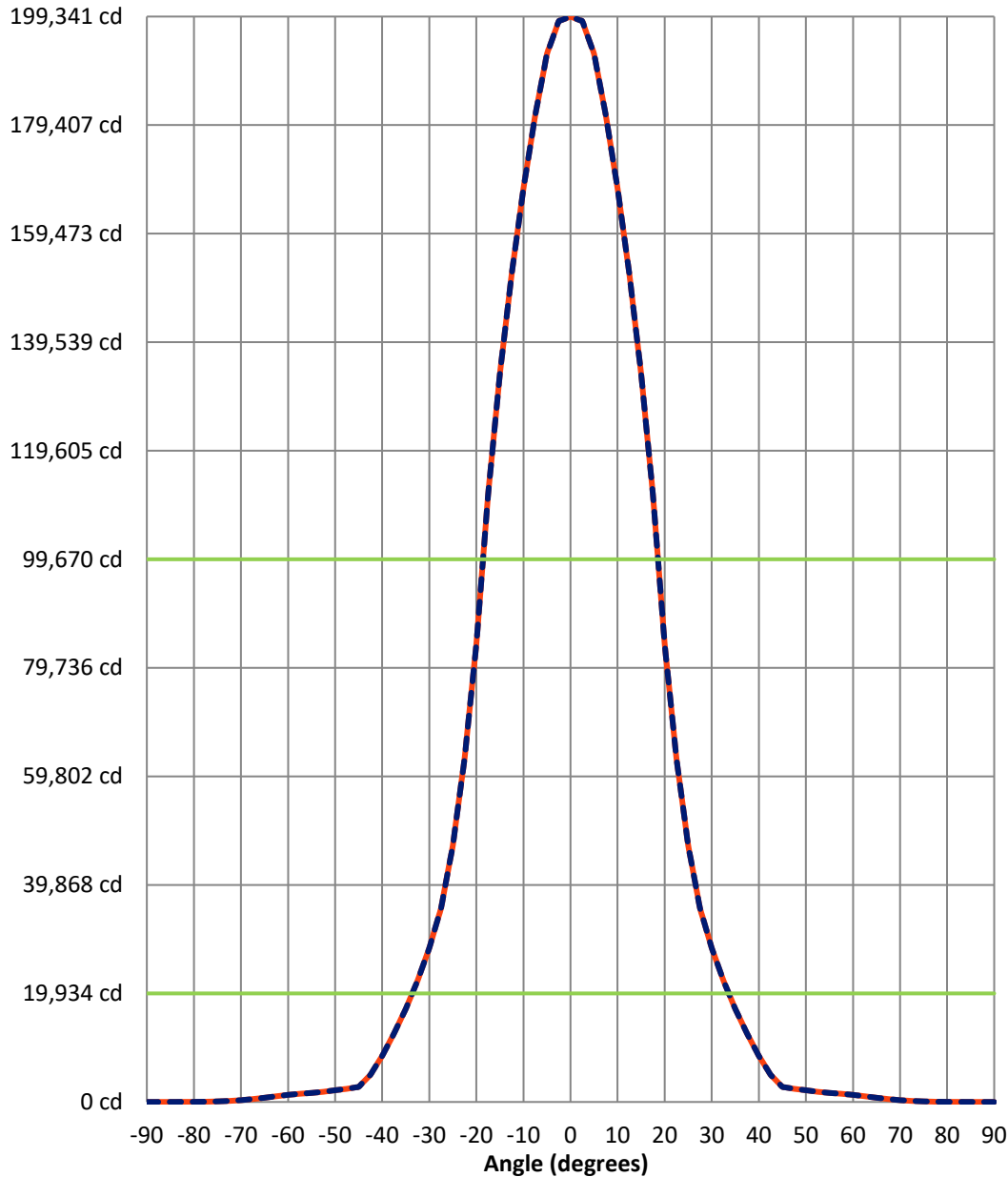
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 37.2°
 V Angle: 37.2°
 Lumens: 47924.3
 Efficiency: 52.1%

Field:
 H Angle: 67.2°
 V Angle: 67.2°
 Lumens: 80504.8
 Efficiency: 87.5%

Spill:
 Lumens: 11552.7
 Efficiency: 12.5%

— 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	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	1.9
85°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.1	3.5	3.9
82.5°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.1	4.7	5.3	5.8
80°	0.0	0.8	1.6	2.4	3.2	4.0	4.7	5.5	6.3	7.0	7.7
77.5°	0.0	1.0	2.0	3.0	4.0	4.9	5.9	6.9	7.8	8.7	10.0
75°	0.0	1.2	2.4	3.6	4.7	5.9	7.1	8.2	9.4	11.3	13.1
72.5°	0.0	1.4	2.8	4.1	5.5	6.9	8.2	9.8	12.0	14.2	16.3
70°	0.0	1.6	3.1	4.7	6.3	7.8	9.4	12.0	14.5	17.0	19.4
67.5°	0.0	1.8	3.5	5.3	7.0	8.7	11.3	14.2	17.0	19.7	22.4
65°	0.0	1.9	3.9	5.8	7.7	10.0	13.1	16.3	19.4	22.4	27.3
62.5°	0.0	2.1	4.2	6.4	8.5	11.5	14.9	18.4	21.7	26.2	36.8
60°	0.0	2.3	4.6	6.9	9.2	12.9	16.7	20.4	24.0	34.6	46.1
57.5°	0.0	2.5	4.9	7.4	10.3	14.4	18.4	22.4	30.3	42.8	63.9
55°	0.0	2.6	5.3	7.9	11.4	15.8	20.1	24.3	37.4	53.3	85.6
52.5°	0.0	2.8	5.6	8.4	12.5	17.1	21.7	29.9	44.3	72.2	106.6
50°	0.0	3.0	5.9	8.9	13.5	18.4	23.2	35.7	53.8	90.6	134.1
47.5°	0.0	3.1	6.2	9.4	14.6	19.7	25.2	41.4	69.6	108.4	161.5
45°	0.0	3.3	6.5	10.1	15.5	20.9	29.8	46.8	84.8	132.0	187.9
42.5°	0.0	3.4	6.8	10.8	16.5	22.0	34.3	56.4	99.4	154.8	228.5
40°	0.0	3.5	7.0	11.5	17.3	23.1	38.6	68.6	115.1	176.6	269.9
37.5°	0.0	3.6	7.3	12.1	18.2	24.2	42.6	80.1	133.4	201.4	309.4
35°	0.0	3.8	7.5	12.7	19.0	26.6	46.5	91.1	150.9	234.9	353.1
32.5°	0.0	3.9	7.8	13.3	19.7	29.6	51.6	101.4	167.3	266.5	403.8
30°	0.0	4.0	8.0	13.8	20.4	32.4	59.8	111.9	182.6	296.1	451.4
27.5°	0.0	4.1	8.2	14.3	21.0	35.0	67.5	124.4	200.6	323.7	495.6
25°	0.0	4.2	8.3	14.7	21.6	37.4	74.5	135.8	223.0	356.2	536.8
22.5°	0.0	4.2	8.5	15.1	22.2	39.5	80.9	146.2	243.5	389.5	581.8
20°	0.0	4.3	8.6	15.5	22.6	41.5	86.7	155.6	261.9	419.6	622.4
17.5°	0.0	4.4	8.8	15.8	23.1	43.2	91.8	164.0	278.3	446.3	658.6
15°	0.0	4.4	8.9	16.1	23.5	44.8	96.3	171.2	292.5	469.6	690.1
12.5°	0.0	4.5	9.0	16.3	23.8	46.1	100.1	177.4	304.7	489.4	716.9
10°	0.0	4.5	9.1	16.5	24.0	47.1	103.2	182.5	314.7	505.7	739.0
7.5°	0.0	4.6	9.1	16.7	24.2	47.9	105.7	186.5	322.5	518.4	756.2
5°	0.0	4.6	9.2	16.8	24.4	48.5	107.4	189.3	328.0	527.5	768.6
2.5°	0.0	4.6	9.2	16.9	24.5	48.9	108.5	191.0	331.4	533.0	776.0
0°	0.0	4.6	9.2	16.9	24.5	49.0	108.8	191.6	332.5	534.8	778.5
-2.5°	0.0	4.6	9.2	16.9	24.5	48.9	108.5	191.0	331.4	533.0	776.0
-5°	0.0	4.6	9.2	16.8	24.4	48.5	107.4	189.3	328.0	527.5	768.6
-7.5°	0.0	4.6	9.1	16.7	24.2	47.9	105.7	186.5	322.5	518.4	756.2
-10°	0.0	4.5	9.1	16.5	24.0	47.1	103.2	182.5	314.7	505.7	739.0
-12.5°	0.0	4.5	9.0	16.3	23.8	46.1	100.1	177.4	304.7	489.4	716.9
-15°	0.0	4.4	8.9	16.1	23.5	44.8	96.3	171.2	292.5	469.6	690.1
-17.5°	0.0	4.4	8.8	15.8	23.1	43.2	91.8	164.0	278.3	446.3	658.6
-20°	0.0	4.3	8.6	15.5	22.6	41.5	86.7	155.6	261.9	419.6	622.4



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 CATALOG NUMBER: EPH-08-640L-40-80-4S-HEG-A

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	4.2	8.5	15.1	22.2	39.5	80.9	146.2	243.5	389.5	581.8
-25°	0.0	4.2	8.3	14.7	21.6	37.4	74.5	135.8	223.0	356.2	536.8
-27.5°	0.0	4.1	8.2	14.3	21.0	35.0	67.5	124.4	200.6	323.7	495.6
-30°	0.0	4.0	8.0	13.8	20.4	32.4	59.8	111.9	182.6	296.1	451.4
-32.5°	0.0	3.9	7.8	13.3	19.7	29.6	51.6	101.4	167.3	266.5	403.8
-35°	0.0	3.8	7.5	12.7	19.0	26.6	46.5	91.1	150.9	234.9	353.1
-37.5°	0.0	3.6	7.3	12.1	18.2	24.2	42.6	80.1	133.4	201.4	309.4
-40°	0.0	3.5	7.0	11.5	17.3	23.1	38.6	68.6	115.1	176.6	269.9
-42.5°	0.0	3.4	6.8	10.8	16.5	22.0	34.3	56.4	99.4	154.8	228.5
-45°	0.0	3.3	6.5	10.1	15.5	20.9	29.8	46.8	84.8	132.0	187.9
-47.5°	0.0	3.1	6.2	9.4	14.6	19.7	25.2	41.4	69.6	108.4	161.5
-50°	0.0	3.0	5.9	8.9	13.5	18.4	23.2	35.7	53.8	90.6	134.1
-52.5°	0.0	2.8	5.6	8.4	12.5	17.1	21.7	29.9	44.3	72.2	106.6
-55°	0.0	2.6	5.3	7.9	11.4	15.8	20.1	24.3	37.4	53.3	85.6
-57.5°	0.0	2.5	4.9	7.4	10.3	14.4	18.4	22.4	30.3	42.8	63.9
-60°	0.0	2.3	4.6	6.9	9.2	12.9	16.7	20.4	24.0	34.6	46.1
-62.5°	0.0	2.1	4.2	6.4	8.5	11.5	14.9	18.4	21.7	26.2	36.8
-65°	0.0	1.9	3.9	5.8	7.7	10.0	13.1	16.3	19.4	22.4	27.3
-67.5°	0.0	1.8	3.5	5.3	7.0	8.7	11.3	14.2	17.0	19.7	22.4
-70°	0.0	1.6	3.1	4.7	6.3	7.8	9.4	12.0	14.5	17.0	19.4
-72.5°	0.0	1.4	2.8	4.1	5.5	6.9	8.2	9.8	12.0	14.2	16.3
-75°	0.0	1.2	2.4	3.6	4.7	5.9	7.1	8.2	9.4	11.3	13.1
-77.5°	0.0	1.0	2.0	3.0	4.0	4.9	5.9	6.9	7.8	8.7	10.0
-80°	0.0	0.8	1.6	2.4	3.2	4.0	4.7	5.5	6.3	7.0	7.7
-82.5°	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.1	4.7	5.3	5.8
-85°	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.1	3.5	3.9
-87.5°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	1.9
-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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 CATALOG NUMBER: EPH-08-640L-40-80-4S-HEG-A

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°	2.1	2.3	2.5	2.6	2.8	3.0	3.1	3.3	3.4	3.5	3.6
85°	4.2	4.6	4.9	5.3	5.6	5.9	6.2	6.5	6.8	7.0	7.3
82.5°	6.4	6.9	7.4	7.9	8.4	8.9	9.4	10.1	10.8	11.5	12.1
80°	8.5	9.2	10.3	11.4	12.5	13.5	14.6	15.5	16.5	17.3	18.2
77.5°	11.5	12.9	14.4	15.8	17.1	18.4	19.7	20.9	22.0	23.1	24.2
75°	14.9	16.7	18.4	20.1	21.7	23.2	25.2	29.8	34.3	38.6	42.6
72.5°	18.4	20.4	22.4	24.3	29.9	35.7	41.4	46.8	56.4	68.6	80.1
70°	21.7	24.0	30.3	37.4	44.3	53.8	69.6	84.8	99.4	115.1	133.4
67.5°	26.2	34.6	42.8	53.3	72.2	90.6	108.4	132.0	154.8	176.6	201.4
65°	36.8	46.1	63.9	85.6	106.6	134.1	161.5	187.9	228.5	269.9	309.4
62.5°	47.1	69.3	93.6	120.7	152.7	183.8	229.8	279.3	327.1	390.4	453.0
60°	69.3	96.3	128.1	164.0	204.1	261.9	318.0	389.5	464.5	536.8	619.7
57.5°	93.6	128.1	167.7	216.9	281.3	349.0	436.4	521.0	616.4	710.8	803.6
55°	120.7	164.0	216.9	287.8	367.8	464.8	564.0	673.9	780.3	894.0	1002.8
52.5°	152.7	204.1	281.3	367.8	474.3	587.0	708.8	832.4	959.5	1080.6	1193.4
50°	183.8	261.9	349.0	464.8	587.0	720.5	858.6	999.2	1131.9	1258.0	1362.9
47.5°	229.8	318.0	436.4	564.0	708.8	858.6	1012.4	1157.7	1297.1	1403.2	1502.4
45°	279.3	389.5	521.0	673.9	832.4	999.2	1157.7	1310.2	1423.5	1527.9	1610.0
42.5°	327.1	464.5	616.4	780.3	959.5	1131.9	1297.1	1423.5	1536.0	1626.3	1729.7
40°	390.4	536.8	710.8	894.0	1080.6	1258.0	1403.2	1527.9	1626.3	1740.8	1863.6
37.5°	453.0	619.7	803.6	1002.8	1193.4	1362.9	1502.4	1610.0	1729.7	1863.6	2044.1
35°	512.5	698.4	899.1	1104.3	1301.0	1451.5	1577.7	1696.8	1841.1	2027.9	2214.3
32.5°	575.7	772.8	989.6	1198.8	1381.3	1529.8	1647.8	1796.5	1979.5	2184.7	2366.2
30°	639.2	850.0	1073.7	1287.7	1455.0	1591.5	1730.6	1899.9	2122.1	2320.9	2545.9
27.5°	698.4	922.5	1150.0	1356.6	1520.8	1649.4	1813.5	2025.4	2246.4	2461.4	2734.7
25°	753.1	989.6	1220.7	1415.5	1570.5	1716.0	1899.2	2142.5	2359.0	2627.1	3641.1
22.5°	805.8	1051.0	1285.4	1469.6	1616.1	1781.8	1999.4	2241.0	2479.9	2818.9	4675.6
20°	856.1	1104.3	1336.1	1516.6	1657.6	1841.5	2090.7	2329.2	2610.6	3701.6	5977.0
17.5°	900.9	1151.9	1376.0	1550.6	1704.6	1905.4	2171.1	2408.5	2728.3	4497.9	7318.8
15°	939.9	1193.4	1411.0	1580.3	1747.7	1971.6	2235.4	2500.6	3139.4	5315.1	8514.8
12.5°	973.2	1228.8	1440.8	1605.7	1784.6	2028.3	2290.5	2582.8	3698.3	6261.6	9727.2
10°	1000.6	1258.0	1465.4	1626.6	1815.0	2075.0	2336.1	2650.8	4161.8	7048.0	10736.9
7.5°	1022.1	1280.8	1484.6	1643.0	1838.8	2111.7	2371.8	2704.3	4526.3	7667.5	11533.7
5°	1037.4	1297.1	1498.4	1654.8	1855.9	2138.0	2397.5	2742.8	4789.0	8114.3	12109.3
2.5°	1046.6	1306.9	1506.7	1661.8	1866.2	2153.9	2413.0	2765.9	4947.4	8384.2	12457.3
0°	1049.7	1310.2	1509.5	1664.2	1869.6	2159.2	2418.2	2773.7	5000.4	8474.4	12573.7
-2.5°	1046.6	1306.9	1506.7	1661.8	1866.2	2153.9	2413.0	2765.9	4947.4	8384.2	12457.3
-5°	1037.4	1297.1	1498.4	1654.8	1855.9	2138.0	2397.5	2742.8	4789.0	8114.3	12109.3
-7.5°	1022.1	1280.8	1484.6	1643.0	1838.8	2111.7	2371.8	2704.3	4526.3	7667.5	11533.7
-10°	1000.6	1258.0	1465.4	1626.6	1815.0	2075.0	2336.1	2650.8	4161.8	7048.0	10736.9
-12.5°	973.2	1228.8	1440.8	1605.7	1784.6	2028.3	2290.5	2582.8	3698.3	6261.6	9727.2
-15°	939.9	1193.4	1411.0	1580.3	1747.7	1971.6	2235.4	2500.6	3139.4	5315.1	8514.8
-17.5°	900.9	1151.9	1376.0	1550.6	1704.6	1905.4	2171.1	2408.5	2728.3	4497.9	7318.8
-20°	856.1	1104.3	1336.1	1516.6	1657.6	1841.5	2090.7	2329.2	2610.6	3701.6	5977.0



REPORT NUMBER: P1305386 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-640L-40-80-4S-HEG-A

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	805.8	1051.0	1285.4	1469.6	1616.1	1781.8	1999.4	2241.0	2479.9	2818.9	4675.6
-25°	753.1	989.6	1220.7	1415.5	1570.5	1716.0	1899.2	2142.5	2359.0	2627.1	3641.1
-27.5°	698.4	922.5	1150.0	1356.6	1520.8	1649.4	1813.5	2025.4	2246.4	2461.4	2734.7
-30°	639.2	850.0	1073.7	1287.7	1455.0	1591.5	1730.6	1899.9	2122.1	2320.9	2545.9
-32.5°	575.7	772.8	989.6	1198.8	1381.3	1529.8	1647.8	1796.5	1979.5	2184.7	2366.2
-35°	512.5	698.4	899.1	1104.3	1301.0	1451.5	1577.7	1696.8	1841.1	2027.9	2214.3
-37.5°	453.0	619.7	803.6	1002.8	1193.4	1362.9	1502.4	1610.0	1729.7	1863.6	2044.1
-40°	390.4	536.8	710.8	894.0	1080.6	1258.0	1403.2	1527.9	1626.3	1740.8	1863.6
-42.5°	327.1	464.5	616.4	780.3	959.5	1131.9	1297.1	1423.5	1536.0	1626.3	1729.7
-45°	279.3	389.5	521.0	673.9	832.4	999.2	1157.7	1310.2	1423.5	1527.9	1610.0
-47.5°	229.8	318.0	436.4	564.0	708.8	858.6	1012.4	1157.7	1297.1	1403.2	1502.4
-50°	183.8	261.9	349.0	464.8	587.0	720.5	858.6	999.2	1131.9	1258.0	1362.9
-52.5°	152.7	204.1	281.3	367.8	474.3	587.0	708.8	832.4	959.5	1080.6	1193.4
-55°	120.7	164.0	216.9	287.8	367.8	464.8	564.0	673.9	780.3	894.0	1002.8
-57.5°	93.6	128.1	167.7	216.9	281.3	349.0	436.4	521.0	616.4	710.8	803.6
-60°	69.3	96.3	128.1	164.0	204.1	261.9	318.0	389.5	464.5	536.8	619.7
-62.5°	47.1	69.3	93.6	120.7	152.7	183.8	229.8	279.3	327.1	390.4	453.0
-65°	36.8	46.1	63.9	85.6	106.6	134.1	161.5	187.9	228.5	269.9	309.4
-67.5°	26.2	34.6	42.8	53.3	72.2	90.6	108.4	132.0	154.8	176.6	201.4
-70°	21.7	24.0	30.3	37.4	44.3	53.8	69.6	84.8	99.4	115.1	133.4
-72.5°	18.4	20.4	22.4	24.3	29.9	35.7	41.4	46.8	56.4	68.6	80.1
-75°	14.9	16.7	18.4	20.1	21.7	23.2	25.2	29.8	34.3	38.6	42.6
-77.5°	11.5	12.9	14.4	15.8	17.1	18.4	19.7	20.9	22.0	23.1	24.2
-80°	8.5	9.2	10.3	11.4	12.5	13.5	14.6	15.5	16.5	17.3	18.2
-82.5°	6.4	6.9	7.4	7.9	8.4	8.9	9.4	10.1	10.8	11.5	12.1
-85°	4.2	4.6	4.9	5.3	5.6	5.9	6.2	6.5	6.8	7.0	7.3
-87.5°	2.1	2.3	2.5	2.6	2.8	3.0	3.1	3.3	3.4	3.5	3.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1305386 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-640L-40-80-4S-HEG-A

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	3.9	4.0	4.1	4.2	4.2	4.3	4.4	4.4	4.5	4.5
85°	7.5	7.8	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.0	9.1
82.5°	12.7	13.3	13.8	14.3	14.7	15.1	15.5	15.8	16.1	16.3	16.5
80°	19.0	19.7	20.4	21.0	21.6	22.2	22.6	23.1	23.5	23.8	24.0
77.5°	26.6	29.6	32.4	35.0	37.4	39.5	41.5	43.2	44.8	46.1	47.1
75°	46.5	51.6	59.8	67.5	74.5	80.9	86.7	91.8	96.3	100.1	103.2
72.5°	91.1	101.4	111.9	124.4	135.8	146.2	155.6	164.0	171.2	177.4	182.5
70°	150.9	167.3	182.6	200.6	223.0	243.5	261.9	278.3	292.5	304.7	314.7
67.5°	234.9	266.5	296.1	323.7	356.2	389.5	419.6	446.3	469.6	489.4	505.7
65°	353.1	403.8	451.4	495.6	536.8	581.8	622.4	658.6	690.1	716.9	739.0
62.5°	512.5	575.7	639.2	698.4	753.1	805.8	856.1	900.9	939.9	973.2	1000.6
60°	698.4	772.8	850.0	922.5	989.6	1051.0	1104.3	1151.9	1193.4	1228.8	1258.0
57.5°	899.1	989.6	1073.7	1150.0	1220.7	1285.4	1336.1	1376.0	1411.0	1440.8	1465.4
55°	1104.3	1198.8	1287.7	1356.6	1415.5	1469.6	1516.6	1550.6	1580.3	1605.7	1626.6
52.5°	1301.0	1381.3	1455.0	1520.8	1570.5	1616.1	1657.6	1704.6	1747.7	1784.6	1815.0
50°	1451.5	1529.8	1591.5	1649.4	1716.0	1781.8	1841.5	1905.4	1971.6	2028.3	2075.0
47.5°	1577.7	1647.8	1730.6	1813.5	1899.2	1999.4	2090.7	2171.1	2235.4	2290.5	2336.1
45°	1696.8	1796.5	1899.9	2025.4	2142.5	2241.0	2329.2	2408.5	2500.6	2582.8	2650.8
42.5°	1841.1	1979.5	2122.1	2246.4	2359.0	2479.9	2610.6	2728.3	3139.4	3698.3	4161.8
40°	2027.9	2184.7	2320.9	2461.4	2627.1	2818.9	3701.6	4497.9	5315.1	6261.6	7048.0
37.5°	2214.3	2366.2	2545.9	2734.7	3641.1	4675.6	5977.0	7318.8	8514.8	9727.2	10736.9
35°	2381.4	2588.7	2939.9	4200.4	5607.1	7338.7	9018.0	10727.7	12248.3	13665.9	14877.0
32.5°	2588.7	3077.9	4483.6	6286.9	8267.6	10420.2	12446.5	14466.5	16281.3	17970.6	19483.7
30°	2939.9	4483.6	6515.6	8786.3	11278.5	13729.4	16128.8	18503.4	20757.4	22800.6	24724.4
27.5°	4200.4	6286.9	8786.3	11567.5	14387.9	17158.4	20111.6	22919.4	25765.0	28261.0	30830.0
25°	5607.1	8267.6	11278.5	14387.9	17552.7	20931.2	24403.6	27814.7	31485.2	34812.8	38799.5
22.5°	7338.7	10420.2	13729.4	17158.4	20931.2	24905.3	28993.2	33486.3	38717.7	44440.4	50211.2
20°	9018.0	12446.5	16128.8	20111.6	24403.6	28993.2	34165.1	40958.4	48302.3	57051.4	65707.7
17.5°	10727.7	14466.5	18503.4	22919.4	27814.7	33486.3	40958.4	49974.6	60597.7	72441.6	83479.9
15°	12248.3	16281.3	20757.4	25765.0	31485.2	38717.7	48302.3	60597.7	74969.7	90353.5	106482.9
12.5°	13665.9	17970.6	22800.6	28261.0	34812.8	44440.4	57051.4	72441.6	90353.5	110400.4	125233.6
10°	14877.0	19483.7	24724.4	30830.0	38799.5	50211.2	65070.7	83479.9	106482.9	125233.6	140516.0
7.5°	15835.0	20683.9	26255.5	32885.2	42365.0	55726.3	73160.1	95185.3	118377.7	137166.0	152191.7
5°	16528.2	21554.3	27368.9	34384.9	44978.5	59792.2	79170.0	104124.0	126692.4	145348.9	160519.0
2.5°	16947.8	22082.0	28045.2	35298.2	46575.0	62286.6	82878.5	109685.0	131927.5	150370.1	165852.9
0°	17088.3	22258.8	28272.1	35604.9	47112.1	63127.7	84132.9	111574.5	133718.4	152035.0	167738.7
-2.5°	16947.8	22082.0	28045.2	35298.2	46575.0	62286.6	82878.5	109685.0	131927.5	150370.1	165852.9
-5°	16528.2	21554.3	27368.9	34384.9	44978.5	59792.2	79170.0	104124.0	126692.4	145348.9	160519.0
-7.5°	15835.0	20683.9	26255.5	32885.2	42365.0	55726.3	73160.1	95185.3	118377.7	137166.0	152191.7
-10°	14877.0	19483.7	24724.4	30830.0	38799.5	50211.2	65070.7	83479.9	106482.9	125233.6	140516.0
-12.5°	13665.9	17970.6	22800.6	28261.0	34812.8	44440.4	57051.4	72441.6	90353.5	110400.4	125233.6
-15°	12248.3	16281.3	20757.4	25765.0	31485.2	38717.7	48302.3	60597.7	74969.7	90353.5	106482.9
-17.5°	10727.7	14466.5	18503.4	22919.4	27814.7	33486.3	40958.4	49974.6	60597.7	72441.6	83479.9
-20°	9018.0	12446.5	16128.8	20111.6	24403.6	28993.2	34165.1	40958.4	48302.3	57051.4	65707.7



REPORT NUMBER: P1305386 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-640L-40-80-4S-HEG-A

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7338.7	10420.2	13729.4	17158.4	20931.2	24905.3	28993.2	33486.3	38717.7	44440.4	50211.2
-25°	5607.1	8267.6	11278.5	14387.9	17552.7	20931.2	24403.6	27814.7	31485.2	34812.8	38799.5
-27.5°	4200.4	6286.9	8786.3	11567.5	14387.9	17158.4	20111.6	22919.4	25765.0	28261.0	30830.0
-30°	2939.9	4483.6	6515.6	8786.3	11278.5	13729.4	16128.8	18503.4	20757.4	22800.6	24724.4
-32.5°	2588.7	3077.9	4483.6	6286.9	8267.6	10420.2	12446.5	14466.5	16281.3	17970.6	19483.7
-35°	2381.4	2588.7	2939.9	4200.4	5607.1	7338.7	9018.0	10727.7	12248.3	13665.9	14877.0
-37.5°	2214.3	2366.2	2545.9	2734.7	3641.1	4675.6	5977.0	7318.8	8514.8	9727.2	10736.9
-40°	2027.9	2184.7	2320.9	2461.4	2627.1	2818.9	3701.6	4497.9	5315.1	6261.6	7048.0
-42.5°	1841.1	1979.5	2122.1	2246.4	2359.0	2479.9	2610.6	2728.3	3139.4	3698.3	4161.8
-45°	1696.8	1796.5	1899.9	2025.4	2142.5	2241.0	2329.2	2408.5	2500.6	2582.8	2650.8
-47.5°	1577.7	1647.8	1730.6	1813.5	1899.2	1999.4	2090.7	2171.1	2235.4	2290.5	2336.1
-50°	1451.5	1529.8	1591.5	1649.4	1716.0	1781.8	1841.5	1905.4	1971.6	2028.3	2075.0
-52.5°	1301.0	1381.3	1455.0	1520.8	1570.5	1616.1	1657.6	1704.6	1747.7	1784.6	1815.0
-55°	1104.3	1198.8	1287.7	1356.6	1415.5	1469.6	1516.6	1550.6	1580.3	1605.7	1626.6
-57.5°	899.1	989.6	1073.7	1150.0	1220.7	1285.4	1336.1	1376.0	1411.0	1440.8	1465.4
-60°	698.4	772.8	850.0	922.5	989.6	1051.0	1104.3	1151.9	1193.4	1228.8	1258.0
-62.5°	512.5	575.7	639.2	698.4	753.1	805.8	856.1	900.9	939.9	973.2	1000.6
-65°	353.1	403.8	451.4	495.6	536.8	581.8	622.4	658.6	690.1	716.9	739.0
-67.5°	234.9	266.5	296.1	323.7	356.2	389.5	419.6	446.3	469.6	489.4	505.7
-70°	150.9	167.3	182.6	200.6	223.0	243.5	261.9	278.3	292.5	304.7	314.7
-72.5°	91.1	101.4	111.9	124.4	135.8	146.2	155.6	164.0	171.2	177.4	182.5
-75°	46.5	51.6	59.8	67.5	74.5	80.9	86.7	91.8	96.3	100.1	103.2
-77.5°	26.6	29.6	32.4	35.0	37.4	39.5	41.5	43.2	44.8	46.1	47.1
-80°	19.0	19.7	20.4	21.0	21.6	22.2	22.6	23.1	23.5	23.8	24.0
-82.5°	12.7	13.3	13.8	14.3	14.7	15.1	15.5	15.8	16.1	16.3	16.5
-85°	7.5	7.8	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.0	9.1
-87.5°	3.8	3.9	4.0	4.1	4.2	4.2	4.3	4.4	4.4	4.5	4.5
-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: P1305386 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-640L-40-80-4S-HEG-A

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°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.4	4.4
85°	9.1	9.2	9.2	9.2	9.2	9.2	9.1	9.1	9.0	8.9	8.8
82.5°	16.7	16.8	16.9	16.9	16.9	16.8	16.7	16.5	16.3	16.1	15.8
80°	24.2	24.4	24.5	24.5	24.5	24.4	24.2	24.0	23.8	23.5	23.1
77.5°	47.9	48.5	48.9	49.0	48.9	48.5	47.9	47.1	46.1	44.8	43.2
75°	105.7	107.4	108.5	108.8	108.5	107.4	105.7	103.2	100.1	96.3	91.8
72.5°	186.5	189.3	191.0	191.6	191.0	189.3	186.5	182.5	177.4	171.2	164.0
70°	322.5	328.0	331.4	332.5	331.4	328.0	322.5	314.7	304.7	292.5	278.3
67.5°	518.4	527.5	533.0	534.8	533.0	527.5	518.4	505.7	489.4	469.6	446.3
65°	756.2	768.6	776.0	778.5	776.0	768.6	756.2	739.0	716.9	690.1	658.6
62.5°	1022.1	1037.4	1046.6	1049.7	1046.6	1037.4	1022.1	1000.6	973.2	939.9	900.9
60°	1280.8	1297.1	1306.9	1310.2	1306.9	1297.1	1280.8	1258.0	1228.8	1193.4	1151.9
57.5°	1484.6	1498.4	1506.7	1509.5	1506.7	1498.4	1484.6	1465.4	1440.8	1411.0	1376.0
55°	1643.0	1654.8	1661.8	1664.2	1661.8	1654.8	1643.0	1626.6	1605.7	1580.3	1550.6
52.5°	1838.8	1855.9	1866.2	1869.6	1866.2	1855.9	1838.8	1815.0	1784.6	1747.7	1704.6
50°	2111.7	2138.0	2153.9	2159.2	2153.9	2138.0	2111.7	2075.0	2028.3	1971.6	1905.4
47.5°	2371.8	2397.5	2413.0	2418.2	2413.0	2397.5	2371.8	2336.1	2290.5	2235.4	2171.1
45°	2704.3	2742.8	2765.9	2773.7	2765.9	2742.8	2704.3	2650.8	2582.8	2500.6	2408.5
42.5°	4526.3	4789.0	4947.4	5000.4	4947.4	4789.0	4526.3	4161.8	3698.3	3139.4	2728.3
40°	7667.5	8114.3	8384.2	8474.4	8384.2	8114.3	7667.5	7048.0	6261.6	5315.1	4497.9
37.5°	11533.7	12109.3	12457.3	12573.7	12457.3	12109.3	11533.7	10736.9	9727.2	8514.8	7318.8
35°	15835.0	16528.2	16947.8	17088.3	16947.8	16528.2	15835.0	14877.0	13665.9	12248.3	10727.7
32.5°	20683.9	21554.3	22082.0	22258.8	22082.0	21554.3	20683.9	19483.7	17970.6	16281.3	14466.5
30°	26255.5	27368.9	28045.2	28272.1	28045.2	27368.9	26255.5	24724.4	22800.6	20757.4	18503.4
27.5°	32885.2	34384.9	35298.2	35604.9	35298.2	34384.9	32885.2	30830.0	28261.0	25765.0	22919.4
25°	42365.0	44978.5	46575.0	47112.1	46575.0	44978.5	42365.0	38799.5	34812.8	31485.2	27814.7
22.5°	55726.3	59792.2	62286.6	63127.7	62286.6	59792.2	55726.3	50211.2	44440.4	38717.7	33486.3
20°	73160.1	79170.0	82878.5	84132.9	82878.5	79170.0	73160.1	65070.7	57051.4	48302.3	40958.4
17.5°	95185.3	104124.0	109685.0	111574.5	109685.0	104124.0	95185.3	83479.9	72441.6	60597.7	49974.6
15°	118377.7	126692.4	131927.5	133718.4	131927.5	126692.4	118377.7	106482.9	90353.5	74969.7	60597.7
12.5°	137166.0	145348.9	150370.1	152035.0	150370.1	145348.9	137166.0	125233.6	110400.4	90353.5	72441.6
10°	152191.7	160519.0	165852.9	167738.7	165852.9	160519.0	152191.7	140516.0	125233.6	106482.9	83479.9
7.5°	164078.2	173477.1	179169.9	181195.9	179169.9	173477.1	164078.2	152191.7	137166.0	118377.7	95185.3
5°	173477.1	183372.5	190110.5	192481.6	190110.5	183372.5	173477.1	160519.0	145348.9	126692.4	104124.0
2.5°	179169.9	190110.5	196619.5	198489.6	196619.5	190110.5	179169.9	165852.9	150370.1	131927.5	109685.0
0°	181195.9	192481.6	198489.6	199340.9	198489.6	192481.6	181195.9	167738.7	152035.0	133718.4	111574.5
-2.5°	179169.9	190110.5	196619.5	198489.6	196619.5	190110.5	179169.9	165852.9	150370.1	131927.5	109685.0
-5°	173477.1	183372.5	190110.5	192481.6	190110.5	183372.5	173477.1	160519.0	145348.9	126692.4	104124.0
-7.5°	164078.2	173477.1	179169.9	181195.9	179169.9	173477.1	164078.2	152191.7	137166.0	118377.7	95185.3
-10°	152191.7	160519.0	165852.9	167738.7	165852.9	160519.0	152191.7	140516.0	125233.6	106482.9	83479.9
-12.5°	137166.0	145348.9	150370.1	152035.0	150370.1	145348.9	137166.0	125233.6	110400.4	90353.5	72441.6
-15°	118377.7	126692.4	131927.5	133718.4	131927.5	126692.4	118377.7	106482.9	90353.5	74969.7	60597.7
-17.5°	95185.3	104124.0	109685.0	111574.5	109685.0	104124.0	95185.3	83479.9	72441.6	60597.7	49974.6
-20°	73160.1	79170.0	82878.5	84132.9	82878.5	79170.0	73160.1	65070.7	57051.4	48302.3	40958.4



REPORT NUMBER: P1305386 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	55726.3	59792.2	62286.6	63127.7	62286.6	59792.2	55726.3	50211.2	44440.4	38717.7	33486.3
-25°	42365.0	44978.5	46575.0	47112.1	46575.0	44978.5	42365.0	38799.5	34812.8	31485.2	27814.7
-27.5°	32885.2	34384.9	35298.2	35604.9	35298.2	34384.9	32885.2	30830.0	28261.0	25765.0	22919.4
-30°	26255.5	27368.9	28045.2	28272.1	28045.2	27368.9	26255.5	24724.4	22800.6	20757.4	18503.4
-32.5°	20683.9	21554.3	22082.0	22258.8	22082.0	21554.3	20683.9	19483.7	17970.6	16281.3	14466.5
-35°	15835.0	16528.2	16947.8	17088.3	16947.8	16528.2	15835.0	14877.0	13665.9	12248.3	10727.7
-37.5°	11533.7	12109.3	12457.3	12573.7	12457.3	12109.3	11533.7	10736.9	9727.2	8514.8	7318.8
-40°	7667.5	8114.3	8384.2	8474.4	8384.2	8114.3	7667.5	7048.0	6261.6	5315.1	4497.9
-42.5°	4526.3	4789.0	4947.4	5000.4	4947.4	4789.0	4526.3	4161.8	3698.3	3139.4	2728.3
-45°	2704.3	2742.8	2765.9	2773.7	2765.9	2742.8	2704.3	2650.8	2582.8	2500.6	2408.5
-47.5°	2371.8	2397.5	2413.0	2418.2	2413.0	2397.5	2371.8	2336.1	2290.5	2235.4	2171.1
-50°	2111.7	2138.0	2153.9	2159.2	2153.9	2138.0	2111.7	2075.0	2028.3	1971.6	1905.4
-52.5°	1838.8	1855.9	1866.2	1869.6	1866.2	1855.9	1838.8	1815.0	1784.6	1747.7	1704.6
-55°	1643.0	1654.8	1661.8	1664.2	1661.8	1654.8	1643.0	1626.6	1605.7	1580.3	1550.6
-57.5°	1484.6	1498.4	1506.7	1509.5	1506.7	1498.4	1484.6	1465.4	1440.8	1411.0	1376.0
-60°	1280.8	1297.1	1306.9	1310.2	1306.9	1297.1	1280.8	1258.0	1228.8	1193.4	1151.9
-62.5°	1022.1	1037.4	1046.6	1049.7	1046.6	1037.4	1022.1	1000.6	973.2	939.9	900.9
-65°	756.2	768.6	776.0	778.5	776.0	768.6	756.2	739.0	716.9	690.1	658.6
-67.5°	518.4	527.5	533.0	534.8	533.0	527.5	518.4	505.7	489.4	469.6	446.3
-70°	322.5	328.0	331.4	332.5	331.4	328.0	322.5	314.7	304.7	292.5	278.3
-72.5°	186.5	189.3	191.0	191.6	191.0	189.3	186.5	182.5	177.4	171.2	164.0
-75°	105.7	107.4	108.5	108.8	108.5	107.4	105.7	103.2	100.1	96.3	91.8
-77.5°	47.9	48.5	48.9	49.0	48.9	48.5	47.9	47.1	46.1	44.8	43.2
-80°	24.2	24.4	24.5	24.5	24.5	24.4	24.2	24.0	23.8	23.5	23.1
-82.5°	16.7	16.8	16.9	16.9	16.9	16.8	16.7	16.5	16.3	16.1	15.8
-85°	9.1	9.2	9.2	9.2	9.2	9.2	9.1	9.1	9.0	8.9	8.8
-87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.4	4.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	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°	4.3	4.2	4.2	4.1	4.0	3.9	3.8	3.6	3.5	3.4	3.3
85°	8.6	8.5	8.3	8.2	8.0	7.8	7.5	7.3	7.0	6.8	6.5
82.5°	15.5	15.1	14.7	14.3	13.8	13.3	12.7	12.1	11.5	10.8	10.1
80°	22.6	22.2	21.6	21.0	20.4	19.7	19.0	18.2	17.3	16.5	15.5
77.5°	41.5	39.5	37.4	35.0	32.4	29.6	26.6	24.2	23.1	22.0	20.9
75°	86.7	80.9	74.5	67.5	59.8	51.6	46.5	42.6	38.6	34.3	29.8
72.5°	155.6	146.2	135.8	124.4	111.9	101.4	91.1	80.1	68.6	56.4	46.8
70°	261.9	243.5	223.0	200.6	182.6	167.3	150.9	133.4	115.1	99.4	84.8
67.5°	419.6	389.5	356.2	323.7	296.1	266.5	234.9	201.4	176.6	154.8	132.0
65°	622.4	581.8	536.8	495.6	451.4	403.8	353.1	309.4	269.9	228.5	187.9
62.5°	856.1	805.8	753.1	698.4	639.2	575.7	512.5	453.0	390.4	327.1	279.3
60°	1104.3	1051.0	989.6	922.5	850.0	772.8	698.4	619.7	536.8	464.5	389.5
57.5°	1336.1	1285.4	1220.7	1150.0	1073.7	989.6	899.1	803.6	710.8	616.4	521.0
55°	1516.6	1469.6	1415.5	1356.6	1287.7	1198.8	1104.3	1002.8	894.0	780.3	673.9
52.5°	1657.6	1616.1	1570.5	1520.8	1455.0	1381.3	1301.0	1193.4	1080.6	959.5	832.4
50°	1841.5	1781.8	1716.0	1649.4	1591.5	1529.8	1451.5	1362.9	1258.0	1131.9	999.2
47.5°	2090.7	1999.4	1899.2	1813.5	1730.6	1647.8	1577.7	1502.4	1403.2	1297.1	1157.7
45°	2329.2	2241.0	2142.5	2025.4	1899.9	1796.5	1696.8	1610.0	1527.9	1423.5	1310.2
42.5°	2610.6	2479.9	2359.0	2246.4	2122.1	1979.5	1841.1	1729.7	1626.3	1536.0	1423.5
40°	3701.6	2818.9	2627.1	2461.4	2320.9	2184.7	2027.9	1863.6	1740.8	1626.3	1527.9
37.5°	5977.0	4675.6	3641.1	2734.7	2545.9	2366.2	2214.3	2044.1	1863.6	1729.7	1610.0
35°	9018.0	7338.7	5607.1	4200.4	2939.9	2588.7	2381.4	2214.3	2027.9	1841.1	1696.8
32.5°	12446.5	10420.2	8267.6	6286.9	4483.6	3077.9	2588.7	2366.2	2184.7	1979.5	1796.5
30°	16128.8	13729.4	11278.5	8786.3	6515.6	4483.6	2939.9	2545.9	2320.9	2122.1	1899.9
27.5°	20111.6	17158.4	14387.9	11567.5	8786.3	6286.9	4200.4	2734.7	2461.4	2246.4	2025.4
25°	24403.6	20931.2	17552.7	14387.9	11278.5	8267.6	5607.1	3641.1	2627.1	2359.0	2142.5
22.5°	28993.2	24905.3	20931.2	17158.4	13729.4	10420.2	7338.7	4675.6	2818.9	2479.9	2241.0
20°	34165.1	28993.2	24403.6	20111.6	16128.8	12446.5	9018.0	5977.0	3701.6	2610.6	2329.2
17.5°	40958.4	33486.3	27814.7	22919.4	18503.4	14466.5	10727.7	7318.8	4497.9	2728.3	2408.5
15°	48302.3	38717.7	31485.2	25765.0	20757.4	16281.3	12248.3	8514.8	5315.1	3139.4	2500.6
12.5°	57051.4	44440.4	34812.8	28261.0	22800.6	17970.6	13665.9	9727.2	6261.6	3698.3	2582.8
10°	65070.7	50211.2	38799.5	30830.0	24724.4	19483.7	14877.0	10736.9	7048.0	4161.8	2650.8
7.5°	73160.1	55726.3	42365.0	32885.2	26255.5	20683.9	15835.0	11533.7	7667.5	4526.3	2704.3
5°	79170.0	59792.2	44978.5	34384.9	27368.9	21554.3	16528.2	12109.3	8114.3	4789.0	2742.8
2.5°	82878.5	62286.6	46575.0	35298.2	28045.2	22082.0	16947.8	12457.3	8384.2	4947.4	2765.9
0°	84132.9	63127.7	47112.1	35604.9	28272.1	22258.8	17088.3	12573.7	8474.4	5000.4	2773.7
-2.5°	82878.5	62286.6	46575.0	35298.2	28045.2	22082.0	16947.8	12457.3	8384.2	4947.4	2765.9
-5°	79170.0	59792.2	44978.5	34384.9	27368.9	21554.3	16528.2	12109.3	8114.3	4789.0	2742.8
-7.5°	73160.1	55726.3	42365.0	32885.2	26255.5	20683.9	15835.0	11533.7	7667.5	4526.3	2704.3
-10°	65070.7	50211.2	38799.5	30830.0	24724.4	19483.7	14877.0	10736.9	7048.0	4161.8	2650.8
-12.5°	57051.4	44440.4	34812.8	28261.0	22800.6	17970.6	13665.9	9727.2	6261.6	3698.3	2582.8
-15°	48302.3	38717.7	31485.2	25765.0	20757.4	16281.3	12248.3	8514.8	5315.1	3139.4	2500.6
-17.5°	40958.4	33486.3	27814.7	22919.4	18503.4	14466.5	10727.7	7318.8	4497.9	2728.3	2408.5
-20°	34165.1	28993.2	24403.6	20111.6	16128.8	12446.5	9018.0	5977.0	3701.6	2610.6	2329.2



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	28993.2	24905.3	20931.2	17158.4	13729.4	10420.2	7338.7	4675.6	2818.9	2479.9	2241.0
-25°	24403.6	20931.2	17552.7	14387.9	11278.5	8267.6	5607.1	3641.1	2627.1	2359.0	2142.5
-27.5°	20111.6	17158.4	14387.9	11567.5	8786.3	6286.9	4200.4	2734.7	2461.4	2246.4	2025.4
-30°	16128.8	13729.4	11278.5	8786.3	6515.6	4483.6	2939.9	2545.9	2320.9	2122.1	1899.9
-32.5°	12446.5	10420.2	8267.6	6286.9	4483.6	3077.9	2588.7	2366.2	2184.7	1979.5	1796.5
-35°	9018.0	7338.7	5607.1	4200.4	2939.9	2588.7	2381.4	2214.3	2027.9	1841.1	1696.8
-37.5°	5977.0	4675.6	3641.1	2734.7	2545.9	2366.2	2214.3	2044.1	1863.6	1729.7	1610.0
-40°	3701.6	2818.9	2627.1	2461.4	2320.9	2184.7	2027.9	1863.6	1740.8	1626.3	1527.9
-42.5°	2610.6	2479.9	2359.0	2246.4	2122.1	1979.5	1841.1	1729.7	1626.3	1536.0	1423.5
-45°	2329.2	2241.0	2142.5	2025.4	1899.9	1796.5	1696.8	1610.0	1527.9	1423.5	1310.2
-47.5°	2090.7	1999.4	1899.2	1813.5	1730.6	1647.8	1577.7	1502.4	1403.2	1297.1	1157.7
-50°	1841.5	1781.8	1716.0	1649.4	1591.5	1529.8	1451.5	1362.9	1258.0	1131.9	999.2
-52.5°	1657.6	1616.1	1570.5	1520.8	1455.0	1381.3	1301.0	1193.4	1080.6	959.5	832.4
-55°	1516.6	1469.6	1415.5	1356.6	1287.7	1198.8	1104.3	1002.8	894.0	780.3	673.9
-57.5°	1336.1	1285.4	1220.7	1150.0	1073.7	989.6	899.1	803.6	710.8	616.4	521.0
-60°	1104.3	1051.0	989.6	922.5	850.0	772.8	698.4	619.7	536.8	464.5	389.5
-62.5°	856.1	805.8	753.1	698.4	639.2	575.7	512.5	453.0	390.4	327.1	279.3
-65°	622.4	581.8	536.8	495.6	451.4	403.8	353.1	309.4	269.9	228.5	187.9
-67.5°	419.6	389.5	356.2	323.7	296.1	266.5	234.9	201.4	176.6	154.8	132.0
-70°	261.9	243.5	223.0	200.6	182.6	167.3	150.9	133.4	115.1	99.4	84.8
-72.5°	155.6	146.2	135.8	124.4	111.9	101.4	91.1	80.1	68.6	56.4	46.8
-75°	86.7	80.9	74.5	67.5	59.8	51.6	46.5	42.6	38.6	34.3	29.8
-77.5°	41.5	39.5	37.4	35.0	32.4	29.6	26.6	24.2	23.1	22.0	20.9
-80°	22.6	22.2	21.6	21.0	20.4	19.7	19.0	18.2	17.3	16.5	15.5
-82.5°	15.5	15.1	14.7	14.3	13.8	13.3	12.7	12.1	11.5	10.8	10.1
-85°	8.6	8.5	8.3	8.2	8.0	7.8	7.5	7.3	7.0	6.8	6.5
-87.5°	4.3	4.2	4.2	4.1	4.0	3.9	3.8	3.6	3.5	3.4	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



REPORT NUMBER: P1305386 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-640L-40-80-4S-HEG-A

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°	3.1	3.0	2.8	2.6	2.5	2.3	2.1	1.9	1.8	1.6	1.4
85°	6.2	5.9	5.6	5.3	4.9	4.6	4.2	3.9	3.5	3.1	2.8
82.5°	9.4	8.9	8.4	7.9	7.4	6.9	6.4	5.8	5.3	4.7	4.1
80°	14.6	13.5	12.5	11.4	10.3	9.2	8.5	7.7	7.0	6.3	5.5
77.5°	19.7	18.4	17.1	15.8	14.4	12.9	11.5	10.0	8.7	7.8	6.9
75°	25.2	23.2	21.7	20.1	18.4	16.7	14.9	13.1	11.3	9.4	8.2
72.5°	41.4	35.7	29.9	24.3	22.4	20.4	18.4	16.3	14.2	12.0	9.8
70°	69.6	53.8	44.3	37.4	30.3	24.0	21.7	19.4	17.0	14.5	12.0
67.5°	108.4	90.6	72.2	53.3	42.8	34.6	26.2	22.4	19.7	17.0	14.2
65°	161.5	134.1	106.6	85.6	63.9	46.1	36.8	27.3	22.4	19.4	16.3
62.5°	229.8	183.8	152.7	120.7	93.6	69.3	47.1	36.8	26.2	21.7	18.4
60°	318.0	261.9	204.1	164.0	128.1	96.3	69.3	46.1	34.6	24.0	20.4
57.5°	436.4	349.0	281.3	216.9	167.7	128.1	93.6	63.9	42.8	30.3	22.4
55°	564.0	464.8	367.8	287.8	216.9	164.0	120.7	85.6	53.3	37.4	24.3
52.5°	708.8	587.0	474.3	367.8	281.3	204.1	152.7	106.6	72.2	44.3	29.9
50°	858.6	720.5	587.0	464.8	349.0	261.9	183.8	134.1	90.6	53.8	35.7
47.5°	1012.4	858.6	708.8	564.0	436.4	318.0	229.8	161.5	108.4	69.6	41.4
45°	1157.7	999.2	832.4	673.9	521.0	389.5	279.3	187.9	132.0	84.8	46.8
42.5°	1297.1	1131.9	959.5	780.3	616.4	464.5	327.1	228.5	154.8	99.4	56.4
40°	1403.2	1258.0	1080.6	894.0	710.8	536.8	390.4	269.9	176.6	115.1	68.6
37.5°	1502.4	1362.9	1193.4	1002.8	803.6	619.7	453.0	309.4	201.4	133.4	80.1
35°	1577.7	1451.5	1301.0	1104.3	899.1	698.4	512.5	353.1	234.9	150.9	91.1
32.5°	1647.8	1529.8	1381.3	1198.8	989.6	772.8	575.7	403.8	266.5	167.3	101.4
30°	1730.6	1591.5	1455.0	1287.7	1073.7	850.0	639.2	451.4	296.1	182.6	111.9
27.5°	1813.5	1649.4	1520.8	1356.6	1150.0	922.5	698.4	495.6	323.7	200.6	124.4
25°	1899.2	1716.0	1570.5	1415.5	1220.7	989.6	753.1	536.8	356.2	223.0	135.8
22.5°	1999.4	1781.8	1616.1	1469.6	1285.4	1051.0	805.8	581.8	389.5	243.5	146.2
20°	2090.7	1841.5	1657.6	1516.6	1336.1	1104.3	856.1	622.4	419.6	261.9	155.6
17.5°	2171.1	1905.4	1704.6	1550.6	1376.0	1151.9	900.9	658.6	446.3	278.3	164.0
15°	2235.4	1971.6	1747.7	1580.3	1411.0	1193.4	939.9	690.1	469.6	292.5	171.2
12.5°	2290.5	2028.3	1784.6	1605.7	1440.8	1228.8	973.2	716.9	489.4	304.7	177.4
10°	2336.1	2075.0	1815.0	1626.6	1465.4	1258.0	1000.6	739.0	505.7	314.7	182.5
7.5°	2371.8	2111.7	1838.8	1643.0	1484.6	1280.8	1022.1	756.2	518.4	322.5	186.5
5°	2397.5	2138.0	1855.9	1654.8	1498.4	1297.1	1037.4	768.6	527.5	328.0	189.3
2.5°	2413.0	2153.9	1866.2	1661.8	1506.7	1306.9	1046.6	776.0	533.0	331.4	191.0
0°	2418.2	2159.2	1869.6	1664.2	1509.5	1310.2	1049.7	778.5	534.8	332.5	191.6
-2.5°	2413.0	2153.9	1866.2	1661.8	1506.7	1306.9	1046.6	776.0	533.0	331.4	191.0
-5°	2397.5	2138.0	1855.9	1654.8	1498.4	1297.1	1037.4	768.6	527.5	328.0	189.3
-7.5°	2371.8	2111.7	1838.8	1643.0	1484.6	1280.8	1022.1	756.2	518.4	322.5	186.5
-10°	2336.1	2075.0	1815.0	1626.6	1465.4	1258.0	1000.6	739.0	505.7	314.7	182.5
-12.5°	2290.5	2028.3	1784.6	1605.7	1440.8	1228.8	973.2	716.9	489.4	304.7	177.4
-15°	2235.4	1971.6	1747.7	1580.3	1411.0	1193.4	939.9	690.1	469.6	292.5	171.2
-17.5°	2171.1	1905.4	1704.6	1550.6	1376.0	1151.9	900.9	658.6	446.3	278.3	164.0
-20°	2090.7	1841.5	1657.6	1516.6	1336.1	1104.3	856.1	622.4	419.6	261.9	155.6



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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°	1999.4	1781.8	1616.1	1469.6	1285.4	1051.0	805.8	581.8	389.5	243.5	146.2
-25°	1899.2	1716.0	1570.5	1415.5	1220.7	989.6	753.1	536.8	356.2	223.0	135.8
-27.5°	1813.5	1649.4	1520.8	1356.6	1150.0	922.5	698.4	495.6	323.7	200.6	124.4
-30°	1730.6	1591.5	1455.0	1287.7	1073.7	850.0	639.2	451.4	296.1	182.6	111.9
-32.5°	1647.8	1529.8	1381.3	1198.8	989.6	772.8	575.7	403.8	266.5	167.3	101.4
-35°	1577.7	1451.5	1301.0	1104.3	899.1	698.4	512.5	353.1	234.9	150.9	91.1
-37.5°	1502.4	1362.9	1193.4	1002.8	803.6	619.7	453.0	309.4	201.4	133.4	80.1
-40°	1403.2	1258.0	1080.6	894.0	710.8	536.8	390.4	269.9	176.6	115.1	68.6
-42.5°	1297.1	1131.9	959.5	780.3	616.4	464.5	327.1	228.5	154.8	99.4	56.4
-45°	1157.7	999.2	832.4	673.9	521.0	389.5	279.3	187.9	132.0	84.8	46.8
-47.5°	1012.4	858.6	708.8	564.0	436.4	318.0	229.8	161.5	108.4	69.6	41.4
-50°	858.6	720.5	587.0	464.8	349.0	261.9	183.8	134.1	90.6	53.8	35.7
-52.5°	708.8	587.0	474.3	367.8	281.3	204.1	152.7	106.6	72.2	44.3	29.9
-55°	564.0	464.8	367.8	287.8	216.9	164.0	120.7	85.6	53.3	37.4	24.3
-57.5°	436.4	349.0	281.3	216.9	167.7	128.1	93.6	63.9	42.8	30.3	22.4
-60°	318.0	261.9	204.1	164.0	128.1	96.3	69.3	46.1	34.6	24.0	20.4
-62.5°	229.8	183.8	152.7	120.7	93.6	69.3	47.1	36.8	26.2	21.7	18.4
-65°	161.5	134.1	106.6	85.6	63.9	46.1	36.8	27.3	22.4	19.4	16.3
-67.5°	108.4	90.6	72.2	53.3	42.8	34.6	26.2	22.4	19.7	17.0	14.2
-70°	69.6	53.8	44.3	37.4	30.3	24.0	21.7	19.4	17.0	14.5	12.0
-72.5°	41.4	35.7	29.9	24.3	22.4	20.4	18.4	16.3	14.2	12.0	9.8
-75°	25.2	23.2	21.7	20.1	18.4	16.7	14.9	13.1	11.3	9.4	8.2
-77.5°	19.7	18.4	17.1	15.8	14.4	12.9	11.5	10.0	8.7	7.8	6.9
-80°	14.6	13.5	12.5	11.4	10.3	9.2	8.5	7.7	7.0	6.3	5.5
-82.5°	9.4	8.9	8.4	7.9	7.4	6.9	6.4	5.8	5.3	4.7	4.1
-85°	6.2	5.9	5.6	5.3	4.9	4.6	4.2	3.9	3.5	3.1	2.8
-87.5°	3.1	3.0	2.8	2.6	2.5	2.3	2.1	1.9	1.8	1.6	1.4
-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):

	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°	1.2	1.0	0.8	0.6	0.4	0.2	0.0
85°	2.4	2.0	1.6	1.2	0.8	0.4	0.0
82.5°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
80°	4.7	4.0	3.2	2.4	1.6	0.8	0.0
77.5°	5.9	4.9	4.0	3.0	2.0	1.0	0.0
75°	7.1	5.9	4.7	3.6	2.4	1.2	0.0
72.5°	8.2	6.9	5.5	4.1	2.8	1.4	0.0
70°	9.4	7.8	6.3	4.7	3.1	1.6	0.0
67.5°	11.3	8.7	7.0	5.3	3.5	1.8	0.0
65°	13.1	10.0	7.7	5.8	3.9	1.9	0.0
62.5°	14.9	11.5	8.5	6.4	4.2	2.1	0.0
60°	16.7	12.9	9.2	6.9	4.6	2.3	0.0
57.5°	18.4	14.4	10.3	7.4	4.9	2.5	0.0
55°	20.1	15.8	11.4	7.9	5.3	2.6	0.0
52.5°	21.7	17.1	12.5	8.4	5.6	2.8	0.0
50°	23.2	18.4	13.5	8.9	5.9	3.0	0.0
47.5°	25.2	19.7	14.6	9.4	6.2	3.1	0.0
45°	29.8	20.9	15.5	10.1	6.5	3.3	0.0
42.5°	34.3	22.0	16.5	10.8	6.8	3.4	0.0
40°	38.6	23.1	17.3	11.5	7.0	3.5	0.0
37.5°	42.6	24.2	18.2	12.1	7.3	3.6	0.0
35°	46.5	26.6	19.0	12.7	7.5	3.8	0.0
32.5°	51.6	29.6	19.7	13.3	7.8	3.9	0.0
30°	59.8	32.4	20.4	13.8	8.0	4.0	0.0
27.5°	67.5	35.0	21.0	14.3	8.2	4.1	0.0
25°	74.5	37.4	21.6	14.7	8.3	4.2	0.0
22.5°	80.9	39.5	22.2	15.1	8.5	4.2	0.0
20°	86.7	41.5	22.6	15.5	8.6	4.3	0.0
17.5°	91.8	43.2	23.1	15.8	8.8	4.4	0.0
15°	96.3	44.8	23.5	16.1	8.9	4.4	0.0
12.5°	100.1	46.1	23.8	16.3	9.0	4.5	0.0
10°	103.2	47.1	24.0	16.5	9.1	4.5	0.0
7.5°	105.7	47.9	24.2	16.7	9.1	4.6	0.0
5°	107.4	48.5	24.4	16.8	9.2	4.6	0.0
2.5°	108.5	48.9	24.5	16.9	9.2	4.6	0.0
0°	108.8	49.0	24.5	16.9	9.2	4.6	0.0
-2.5°	108.5	48.9	24.5	16.9	9.2	4.6	0.0
-5°	107.4	48.5	24.4	16.8	9.2	4.6	0.0
-7.5°	105.7	47.9	24.2	16.7	9.1	4.6	0.0
-10°	103.2	47.1	24.0	16.5	9.1	4.5	0.0
-12.5°	100.1	46.1	23.8	16.3	9.0	4.5	0.0
-15°	96.3	44.8	23.5	16.1	8.9	4.4	0.0
-17.5°	91.8	43.2	23.1	15.8	8.8	4.4	0.0
-20°	86.7	41.5	22.6	15.5	8.6	4.3	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	80.9	39.5	22.2	15.1	8.5	4.2	0.0
-25°	74.5	37.4	21.6	14.7	8.3	4.2	0.0
-27.5°	67.5	35.0	21.0	14.3	8.2	4.1	0.0
-30°	59.8	32.4	20.4	13.8	8.0	4.0	0.0
-32.5°	51.6	29.6	19.7	13.3	7.8	3.9	0.0
-35°	46.5	26.6	19.0	12.7	7.5	3.8	0.0
-37.5°	42.6	24.2	18.2	12.1	7.3	3.6	0.0
-40°	38.6	23.1	17.3	11.5	7.0	3.5	0.0
-42.5°	34.3	22.0	16.5	10.8	6.8	3.4	0.0
-45°	29.8	20.9	15.5	10.1	6.5	3.3	0.0
-47.5°	25.2	19.7	14.6	9.4	6.2	3.1	0.0
-50°	23.2	18.4	13.5	8.9	5.9	3.0	0.0
-52.5°	21.7	17.1	12.5	8.4	5.6	2.8	0.0
-55°	20.1	15.8	11.4	7.9	5.3	2.6	0.0
-57.5°	18.4	14.4	10.3	7.4	4.9	2.5	0.0
-60°	16.7	12.9	9.2	6.9	4.6	2.3	0.0
-62.5°	14.9	11.5	8.5	6.4	4.2	2.1	0.0
-65°	13.1	10.0	7.7	5.8	3.9	1.9	0.0
-67.5°	11.3	8.7	7.0	5.3	3.5	1.8	0.0
-70°	9.4	7.8	6.3	4.7	3.1	1.6	0.0
-72.5°	8.2	6.9	5.5	4.1	2.8	1.4	0.0
-75°	7.1	5.9	4.7	3.6	2.4	1.2	0.0
-77.5°	5.9	4.9	4.0	3.0	2.0	1.0	0.0
-80°	4.7	4.0	3.2	2.4	1.6	0.8	0.0
-82.5°	3.6	3.0	2.4	1.8	1.2	0.6	0.0
-85°	2.4	2.0	1.6	1.2	0.8	0.4	0.0
-87.5°	1.2	1.0	0.8	0.6	0.4	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)