

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: P1305890 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-320N-40-80-4S-HEG-A**

Issue Date: 2/3/2026

Test Information

Test Method: LM-79-08
Report Number: P1305890 (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-08-320N-40-80-4S-HEG-A
Description: EPHEBUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 4S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

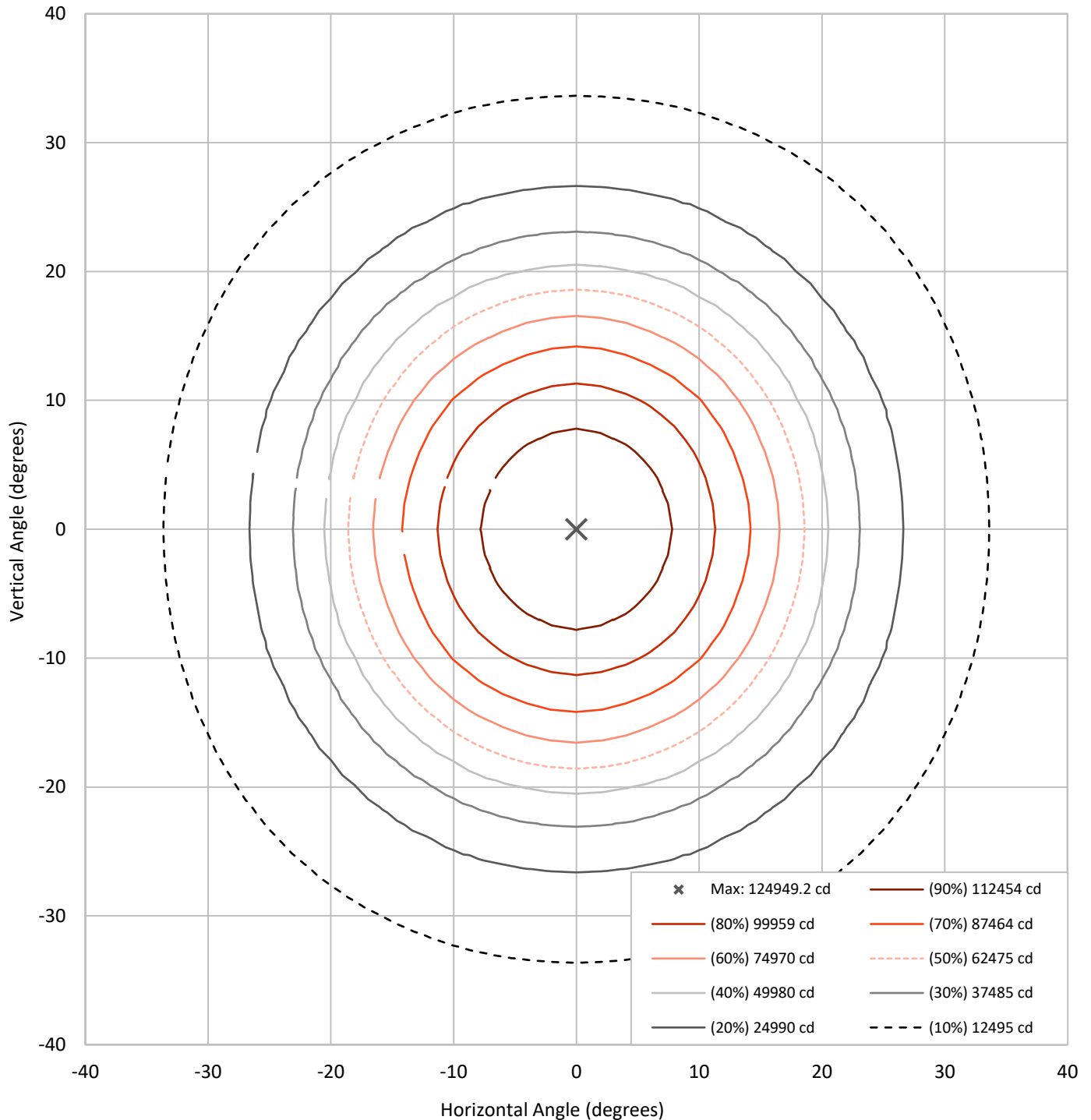
Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	57702.8 lumens	Max Intensity:	124949.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	172.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

Beam Angle (50%):	37.2°H x 37.2°V	Field Angle (10%):	67.2°H x 67.2°V
Beam Lumens:	30039.5 lumens	Field Lumens:	50461.4 lumens
Beam Efficiency:	52.1%	Field Efficiency:	87.5%

Input Watts (W): 334
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





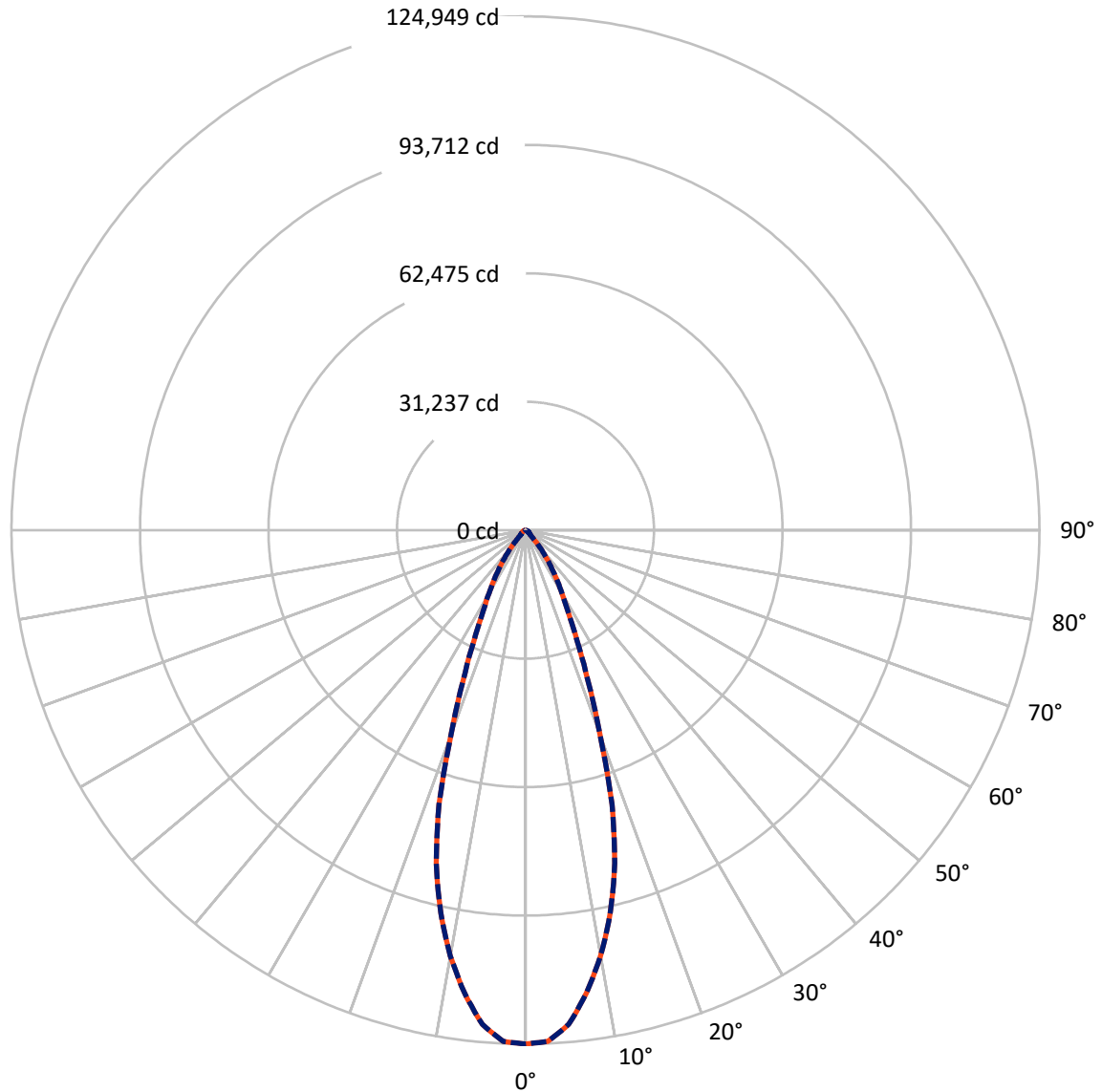
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Lumen Table

90	0.1	0.4		1.7		4.1		5.3		4.1		1.7		0.4		0.1			
80	0.1	0.4		1.7		4.1		5.3		4.1		1.7		0.4		0.1			
70	0.2	0.3	1.0	2.9	6.0	9.7	13.0	14.9	14.9	13.0	9.7	6.0	2.9	1.0	0.3	0.2			
60		0.8	3.4	9.3	17.0	24.0	29.0	31.9	31.9	29.0	24.0	17.0	9.3	3.4	0.8				
50	0.6	1.8	7.6	17.3	26.9	37.3	53.6	70.7	70.7	53.6	37.3	26.9	17.3	7.6	1.8	0.6			
40		3.2	12.1	23.3	40.4	108.5	229.7	318.6	318.6	229.7	108.5	40.4	23.3	12.1	3.2				
30	1.2	4.7	15.3	29.2	98.8	308.8	603.9	898.0	898.0	603.9	308.8	98.8	29.2	15.3	4.7	1.2			
20		5.9	17.4	39.7	196.7	568.6	1408.2	2311.6	2311.6	1408.2	568.6	196.7	39.7	17.4	5.9				
10	1.5	6.5	18.5	51.2	264.8	822.2	2246.3	3383.6	3383.6	2246.3	822.2	264.8	51.2	18.5	6.5	1.5			
0		6.5	18.5	51.2	264.8	822.2	2246.3	3383.6	3383.6	2246.3	822.2	264.8	51.2	18.5	6.5				
-10	1.2	5.9	17.4	39.7	196.7	568.6	1408.2	2311.6	2311.6	1408.2	568.6	196.7	39.7	17.4	5.9	1.2			
-20		4.7	15.3	29.2	98.8	308.8	603.9	898.0	898.0	603.9	308.8	98.8	29.2	15.3	4.7				
-30	0.6	3.2	12.1	23.3	40.4	108.5	229.7	318.6	318.6	229.7	108.5	40.4	23.3	12.1	3.2	0.6			
-40		1.8	7.6	17.3	26.9	37.3	53.6	70.7	70.7	53.6	37.3	26.9	17.3	7.6	1.8				
-50	0.2	0.8	3.4	9.3	17.0	24.0	29.0	31.9	31.9	29.0	24.0	17.0	9.3	3.4	0.8	0.2			
-60		0.3	1.0	2.9	6.0	9.7	13.0	14.9	14.9	13.0	9.7	6.0	2.9	1.0	0.3				
-70	0.1	0.4		1.7		4.1		5.3		4.1		1.7		0.4		0.1			
-80		0.4		1.7		4.1		5.3		4.1		1.7		0.4					
-90	0.1	0.4		1.7		4.1		5.3		4.1		1.7		0.4		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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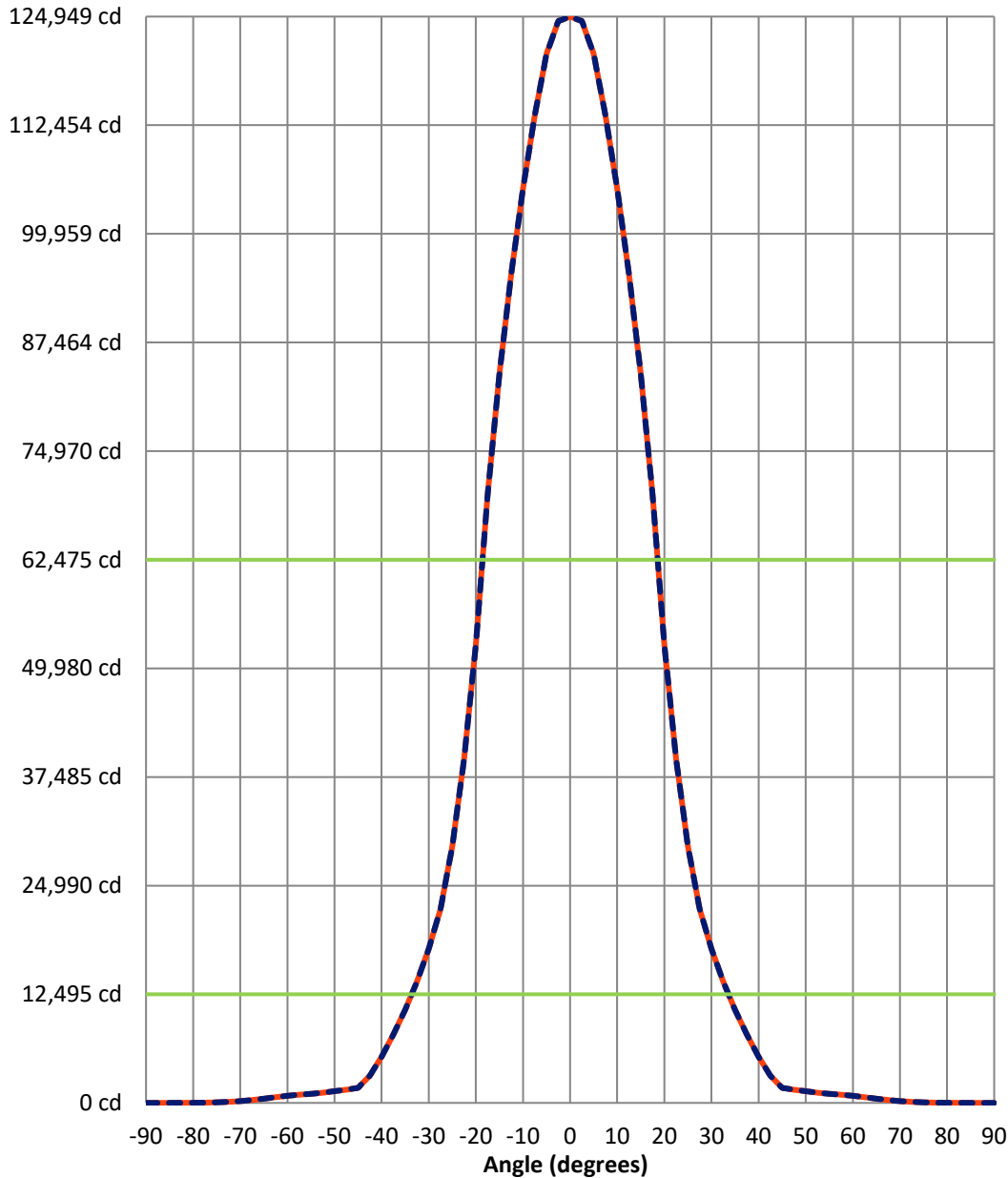
Luminous Intensity Polar Plot



— 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: 30039.5
Efficiency: 52.1%

Field:
H Angle: 67.2°
V Angle: 67.2°
Lumens: 50461.4
Efficiency: 87.5%

Spill:
Lumens: 7241.4
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	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2
85°	0.0	0.3	0.5	0.8	1.0	1.3	1.5	1.7	2.0	2.2	2.4
82.5°	0.0	0.4	0.8	1.1	1.5	1.9	2.2	2.6	3.0	3.3	3.7
80°	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	3.9	4.4	4.9
77.5°	0.0	0.6	1.3	1.9	2.5	3.1	3.7	4.3	4.9	5.5	6.3
75°	0.0	0.8	1.5	2.2	3.0	3.7	4.5	5.2	6.0	7.1	8.3
72.5°	0.0	0.9	1.7	2.6	3.5	4.3	5.2	6.2	7.5	8.9	10.2
70°	0.0	1.0	2.0	3.0	3.9	4.9	6.0	7.5	9.1	10.6	12.2
67.5°	0.0	1.1	2.2	3.3	4.4	5.5	7.1	8.9	10.6	12.4	14.1
65°	0.0	1.2	2.4	3.7	4.9	6.3	8.3	10.2	12.2	14.1	17.2
62.5°	0.0	1.3	2.7	4.0	5.3	7.2	9.4	11.5	13.6	16.5	23.1
60°	0.0	1.4	2.9	4.3	5.8	8.1	10.5	12.8	15.1	21.7	28.9
57.5°	0.0	1.6	3.1	4.7	6.5	9.0	11.5	14.1	19.0	26.8	40.1
55°	0.0	1.7	3.3	5.0	7.2	9.9	12.6	15.3	23.4	33.4	53.6
52.5°	0.0	1.8	3.5	5.3	7.9	10.7	13.6	18.8	27.7	45.3	66.8
50°	0.0	1.9	3.7	5.6	8.5	11.6	14.6	22.4	33.7	56.8	84.0
47.5°	0.0	2.0	3.9	5.9	9.1	12.3	15.8	25.9	43.6	67.9	101.2
45°	0.0	2.1	4.1	6.4	9.7	13.1	18.7	29.3	53.1	82.7	117.8
42.5°	0.0	2.1	4.3	6.8	10.3	13.8	21.5	35.3	62.3	97.0	143.2
40°	0.0	2.2	4.4	7.2	10.9	14.5	24.2	43.0	72.1	110.7	169.2
37.5°	0.0	2.3	4.6	7.6	11.4	15.2	26.7	50.2	83.6	126.3	193.9
35°	0.0	2.4	4.7	8.0	11.9	16.7	29.1	57.1	94.6	147.3	221.3
32.5°	0.0	2.4	4.9	8.3	12.4	18.6	32.3	63.6	104.9	167.1	253.1
30°	0.0	2.5	5.0	8.7	12.8	20.3	37.5	70.2	114.5	185.6	282.9
27.5°	0.0	2.6	5.1	9.0	13.2	21.9	42.3	78.0	125.8	202.9	310.7
25°	0.0	2.6	5.3	9.2	13.6	23.4	46.7	85.1	139.8	223.3	336.5
22.5°	0.0	2.7	5.4	9.5	13.9	24.8	50.7	91.7	152.6	244.1	364.7
20°	0.0	2.7	5.4	9.7	14.2	26.0	54.3	97.5	164.2	263.0	390.1
17.5°	0.0	2.8	5.5	9.9	14.5	27.1	57.6	102.8	174.4	279.7	412.8
15°	0.0	2.8	5.6	10.1	14.7	28.1	60.4	107.3	183.4	294.3	432.6
12.5°	0.0	2.8	5.7	10.3	14.9	28.9	62.7	111.2	191.0	306.7	449.4
10°	0.0	2.9	5.7	10.4	15.1	29.5	64.7	114.4	197.2	316.9	463.2
7.5°	0.0	2.9	5.8	10.5	15.2	30.0	66.2	116.9	202.1	324.9	474.0
5°	0.0	2.9	5.8	10.5	15.3	30.4	67.3	118.7	205.6	330.6	481.8
2.5°	0.0	2.9	5.8	10.6	15.4	30.6	68.0	119.7	207.7	334.1	486.4
0°	0.0	2.9	5.8	10.6	15.4	30.7	68.2	120.1	208.4	335.2	488.0
-2.5°	0.0	2.9	5.8	10.6	15.4	30.6	68.0	119.7	207.7	334.1	486.4
-5°	0.0	2.9	5.8	10.5	15.3	30.4	67.3	118.7	205.6	330.6	481.8
-7.5°	0.0	2.9	5.8	10.5	15.2	30.0	66.2	116.9	202.1	324.9	474.0
-10°	0.0	2.9	5.7	10.4	15.1	29.5	64.7	114.4	197.2	316.9	463.2
-12.5°	0.0	2.8	5.7	10.3	14.9	28.9	62.7	111.2	191.0	306.7	449.4
-15°	0.0	2.8	5.6	10.1	14.7	28.1	60.4	107.3	183.4	294.3	432.6
-17.5°	0.0	2.8	5.5	9.9	14.5	27.1	57.6	102.8	174.4	279.7	412.8
-20°	0.0	2.7	5.4	9.7	14.2	26.0	54.3	97.5	164.2	263.0	390.1



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 CATALOG NUMBER: EPH-08-320N-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	2.7	5.4	9.5	13.9	24.8	50.7	91.7	152.6	244.1	364.7
-25°	0.0	2.6	5.3	9.2	13.6	23.4	46.7	85.1	139.8	223.3	336.5
-27.5°	0.0	2.6	5.1	9.0	13.2	21.9	42.3	78.0	125.8	202.9	310.7
-30°	0.0	2.5	5.0	8.7	12.8	20.3	37.5	70.2	114.5	185.6	282.9
-32.5°	0.0	2.4	4.9	8.3	12.4	18.6	32.3	63.6	104.9	167.1	253.1
-35°	0.0	2.4	4.7	8.0	11.9	16.7	29.1	57.1	94.6	147.3	221.3
-37.5°	0.0	2.3	4.6	7.6	11.4	15.2	26.7	50.2	83.6	126.3	193.9
-40°	0.0	2.2	4.4	7.2	10.9	14.5	24.2	43.0	72.1	110.7	169.2
-42.5°	0.0	2.1	4.3	6.8	10.3	13.8	21.5	35.3	62.3	97.0	143.2
-45°	0.0	2.1	4.1	6.4	9.7	13.1	18.7	29.3	53.1	82.7	117.8
-47.5°	0.0	2.0	3.9	5.9	9.1	12.3	15.8	25.9	43.6	67.9	101.2
-50°	0.0	1.9	3.7	5.6	8.5	11.6	14.6	22.4	33.7	56.8	84.0
-52.5°	0.0	1.8	3.5	5.3	7.9	10.7	13.6	18.8	27.7	45.3	66.8
-55°	0.0	1.7	3.3	5.0	7.2	9.9	12.6	15.3	23.4	33.4	53.6
-57.5°	0.0	1.6	3.1	4.7	6.5	9.0	11.5	14.1	19.0	26.8	40.1
-60°	0.0	1.4	2.9	4.3	5.8	8.1	10.5	12.8	15.1	21.7	28.9
-62.5°	0.0	1.3	2.7	4.0	5.3	7.2	9.4	11.5	13.6	16.5	23.1
-65°	0.0	1.2	2.4	3.7	4.9	6.3	8.3	10.2	12.2	14.1	17.2
-67.5°	0.0	1.1	2.2	3.3	4.4	5.5	7.1	8.9	10.6	12.4	14.1
-70°	0.0	1.0	2.0	3.0	3.9	4.9	6.0	7.5	9.1	10.6	12.2
-72.5°	0.0	0.9	1.7	2.6	3.5	4.3	5.2	6.2	7.5	8.9	10.2
-75°	0.0	0.8	1.5	2.2	3.0	3.7	4.5	5.2	6.0	7.1	8.3
-77.5°	0.0	0.6	1.3	1.9	2.5	3.1	3.7	4.3	4.9	5.5	6.3
-80°	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	3.9	4.4	4.9
-82.5°	0.0	0.4	0.8	1.1	1.5	1.9	2.2	2.6	3.0	3.3	3.7
-85°	0.0	0.3	0.5	0.8	1.0	1.3	1.5	1.7	2.0	2.2	2.4
-87.5°	0.0	0.1	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2	2.3
85°	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.4	4.6
82.5°	4.0	4.3	4.7	5.0	5.3	5.6	5.9	6.4	6.8	7.2	7.6
80°	5.3	5.8	6.5	7.2	7.9	8.5	9.1	9.7	10.3	10.9	11.4
77.5°	7.2	8.1	9.0	9.9	10.7	11.6	12.3	13.1	13.8	14.5	15.2
75°	9.4	10.5	11.5	12.6	13.6	14.6	15.8	18.7	21.5	24.2	26.7
72.5°	11.5	12.8	14.1	15.3	18.8	22.4	25.9	29.3	35.3	43.0	50.2
70°	13.6	15.1	19.0	23.4	27.7	33.7	43.6	53.1	62.3	72.1	83.6
67.5°	16.5	21.7	26.8	33.4	45.3	56.8	67.9	82.7	97.0	110.7	126.3
65°	23.1	28.9	40.1	53.6	66.8	84.0	101.2	117.8	143.2	169.2	193.9
62.5°	29.5	43.4	58.7	75.6	95.7	115.2	144.0	175.1	205.0	244.7	283.9
60°	43.4	60.4	80.3	102.8	127.9	164.2	199.3	244.1	291.2	336.5	388.4
57.5°	58.7	80.3	105.1	136.0	176.3	218.8	273.5	326.5	386.4	445.5	503.7
55°	75.6	102.8	136.0	180.4	230.5	291.3	353.5	422.4	489.1	560.4	628.6
52.5°	95.7	127.9	176.3	230.5	297.3	367.9	444.3	521.8	601.5	677.4	748.1
50°	115.2	164.2	218.8	291.3	367.9	451.6	538.2	626.3	709.5	788.6	854.3
47.5°	144.0	199.3	273.5	353.5	444.3	538.2	634.6	725.7	813.1	879.5	941.6
45°	175.1	244.1	326.5	422.4	521.8	626.3	725.7	821.3	892.3	957.7	1009.2
42.5°	205.0	291.2	386.4	489.1	601.5	709.5	813.1	892.3	962.7	1019.4	1084.3
40°	244.7	336.5	445.5	560.4	677.4	788.6	879.5	957.7	1019.4	1091.2	1168.1
37.5°	283.9	388.4	503.7	628.6	748.1	854.3	941.6	1009.2	1084.3	1168.1	1281.3
35°	321.2	437.8	563.6	692.2	815.5	909.8	988.9	1063.6	1154.0	1271.1	1388.0
32.5°	360.8	484.4	620.3	751.4	865.8	958.8	1032.9	1126.1	1240.8	1369.4	1483.2
30°	400.7	532.8	673.1	807.2	912.0	997.6	1084.8	1190.9	1330.2	1454.8	1595.8
27.5°	437.8	578.3	720.9	850.3	953.2	1033.9	1136.7	1269.5	1408.1	1542.9	1714.2
25°	472.1	620.3	765.2	887.3	984.4	1075.7	1190.4	1342.9	1478.7	1646.7	2282.3
22.5°	505.1	658.8	805.8	921.1	1013.0	1116.9	1253.3	1404.7	1554.5	1766.9	2930.7
20°	536.6	692.2	837.5	950.6	1039.1	1154.3	1310.5	1460.0	1636.4	2320.2	3746.4
17.5°	564.7	722.0	862.5	971.9	1068.5	1194.4	1360.9	1509.7	1710.1	2819.3	4587.5
15°	589.2	748.1	884.4	990.5	1095.5	1235.8	1401.2	1567.4	1967.8	3331.6	5337.2
12.5°	610.1	770.3	903.1	1006.5	1118.6	1271.3	1435.7	1619.0	2318.1	3924.9	6097.2
10°	627.3	788.6	918.5	1019.6	1137.7	1300.7	1464.3	1661.6	2608.7	4417.8	6730.1
7.5°	640.7	802.8	930.5	1029.9	1152.6	1323.6	1486.7	1695.1	2837.2	4806.1	7229.5
5°	650.3	813.1	939.2	1037.3	1163.3	1340.1	1502.8	1719.2	3001.8	5086.2	7590.3
2.5°	656.1	819.2	944.4	1041.7	1169.7	1350.1	1512.6	1733.7	3101.1	5255.3	7808.4
0°	658.0	821.3	946.1	1043.2	1171.9	1353.4	1515.8	1738.6	3134.3	5311.9	7881.4
-2.5°	656.1	819.2	944.4	1041.7	1169.7	1350.1	1512.6	1733.7	3101.1	5255.3	7808.4
-5°	650.3	813.1	939.2	1037.3	1163.3	1340.1	1502.8	1719.2	3001.8	5086.2	7590.3
-7.5°	640.7	802.8	930.5	1029.9	1152.6	1323.6	1486.7	1695.1	2837.2	4806.1	7229.5
-10°	627.3	788.6	918.5	1019.6	1137.7	1300.7	1464.3	1661.6	2608.7	4417.8	6730.1
-12.5°	610.1	770.3	903.1	1006.5	1118.6	1271.3	1435.7	1619.0	2318.1	3924.9	6097.2
-15°	589.2	748.1	884.4	990.5	1095.5	1235.8	1401.2	1567.4	1967.8	3331.6	5337.2
-17.5°	564.7	722.0	862.5	971.9	1068.5	1194.4	1360.9	1509.7	1710.1	2819.3	4587.5
-20°	536.6	692.2	837.5	950.6	1039.1	1154.3	1310.5	1460.0	1636.4	2320.2	3746.4



REPORT NUMBER: P1305890 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-320N-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°	505.1	658.8	805.8	921.1	1013.0	1116.9	1253.3	1404.7	1554.5	1766.9	2930.7
-25°	472.1	620.3	765.2	887.3	984.4	1075.7	1190.4	1342.9	1478.7	1646.7	2282.3
-27.5°	437.8	578.3	720.9	850.3	953.2	1033.9	1136.7	1269.5	1408.1	1542.9	1714.2
-30°	400.7	532.8	673.1	807.2	912.0	997.6	1084.8	1190.9	1330.2	1454.8	1595.8
-32.5°	360.8	484.4	620.3	751.4	865.8	958.8	1032.9	1126.1	1240.8	1369.4	1483.2
-35°	321.2	437.8	563.6	692.2	815.5	909.8	988.9	1063.6	1154.0	1271.1	1388.0
-37.5°	283.9	388.4	503.7	628.6	748.1	854.3	941.6	1009.2	1084.3	1168.1	1281.3
-40°	244.7	336.5	445.5	560.4	677.4	788.6	879.5	957.7	1019.4	1091.2	1168.1
-42.5°	205.0	291.2	386.4	489.1	601.5	709.5	813.1	892.3	962.7	1019.4	1084.3
-45°	175.1	244.1	326.5	422.4	521.8	626.3	725.7	821.3	892.3	957.7	1009.2
-47.5°	144.0	199.3	273.5	353.5	444.3	538.2	634.6	725.7	813.1	879.5	941.6
-50°	115.2	164.2	218.8	291.3	367.9	451.6	538.2	626.3	709.5	788.6	854.3
-52.5°	95.7	127.9	176.3	230.5	297.3	367.9	444.3	521.8	601.5	677.4	748.1
-55°	75.6	102.8	136.0	180.4	230.5	291.3	353.5	422.4	489.1	560.4	628.6
-57.5°	58.7	80.3	105.1	136.0	176.3	218.8	273.5	326.5	386.4	445.5	503.7
-60°	43.4	60.4	80.3	102.8	127.9	164.2	199.3	244.1	291.2	336.5	388.4
-62.5°	29.5	43.4	58.7	75.6	95.7	115.2	144.0	175.1	205.0	244.7	283.9
-65°	23.1	28.9	40.1	53.6	66.8	84.0	101.2	117.8	143.2	169.2	193.9
-67.5°	16.5	21.7	26.8	33.4	45.3	56.8	67.9	82.7	97.0	110.7	126.3
-70°	13.6	15.1	19.0	23.4	27.7	33.7	43.6	53.1	62.3	72.1	83.6
-72.5°	11.5	12.8	14.1	15.3	18.8	22.4	25.9	29.3	35.3	43.0	50.2
-75°	9.4	10.5	11.5	12.6	13.6	14.6	15.8	18.7	21.5	24.2	26.7
-77.5°	7.2	8.1	9.0	9.9	10.7	11.6	12.3	13.1	13.8	14.5	15.2
-80°	5.3	5.8	6.5	7.2	7.9	8.5	9.1	9.7	10.3	10.9	11.4
-82.5°	4.0	4.3	4.7	5.0	5.3	5.6	5.9	6.4	6.8	7.2	7.6
-85°	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.4	4.6
-87.5°	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2	2.3
-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: P1305890 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-320N-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°	2.4	2.4	2.5	2.6	2.6	2.7	2.7	2.8	2.8	2.8	2.9
85°	4.7	4.9	5.0	5.1	5.3	5.4	5.4	5.5	5.6	5.7	5.7
82.5°	8.0	8.3	8.7	9.0	9.2	9.5	9.7	9.9	10.1	10.3	10.4
80°	11.9	12.4	12.8	13.2	13.6	13.9	14.2	14.5	14.7	14.9	15.1
77.5°	16.7	18.6	20.3	21.9	23.4	24.8	26.0	27.1	28.1	28.9	29.5
75°	29.1	32.3	37.5	42.3	46.7	50.7	54.3	57.6	60.4	62.7	64.7
72.5°	57.1	63.6	70.2	78.0	85.1	91.7	97.5	102.8	107.3	111.2	114.4
70°	94.6	104.9	114.5	125.8	139.8	152.6	164.2	174.4	183.4	191.0	197.2
67.5°	147.3	167.1	185.6	202.9	223.3	244.1	263.0	279.7	294.3	306.7	316.9
65°	221.3	253.1	282.9	310.7	336.5	364.7	390.1	412.8	432.6	449.4	463.2
62.5°	321.2	360.8	400.7	437.8	472.1	505.1	536.6	564.7	589.2	610.1	627.3
60°	437.8	484.4	532.8	578.3	620.3	658.8	692.2	722.0	748.1	770.3	788.6
57.5°	563.6	620.3	673.1	720.9	765.2	805.8	837.5	862.5	884.4	903.1	918.5
55°	692.2	751.4	807.2	850.3	887.3	921.1	950.6	971.9	990.5	1006.5	1019.6
52.5°	815.5	865.8	912.0	953.2	984.4	1013.0	1039.1	1068.5	1095.5	1118.6	1137.7
50°	909.8	958.8	997.6	1033.9	1075.7	1116.9	1154.3	1194.4	1235.8	1271.3	1300.7
47.5°	988.9	1032.9	1084.8	1136.7	1190.4	1253.3	1310.5	1360.9	1401.2	1435.7	1464.3
45°	1063.6	1126.1	1190.9	1269.5	1342.9	1404.7	1460.0	1509.7	1567.4	1619.0	1661.6
42.5°	1154.0	1240.8	1330.2	1408.1	1478.7	1554.5	1636.4	1710.1	1967.8	2318.1	2608.7
40°	1271.1	1369.4	1454.8	1542.9	1646.7	1766.9	2320.2	2819.3	3331.6	3924.9	4417.8
37.5°	1388.0	1483.2	1595.8	1714.2	2282.3	2930.7	3746.4	4587.5	5337.2	6097.2	6730.1
35°	1492.7	1622.6	1842.8	2632.9	3514.6	4600.0	5652.7	6724.3	7677.4	8566.0	9325.1
32.5°	1622.6	1929.3	2810.4	3940.7	5182.3	6531.6	7801.7	9067.9	10205.4	11264.2	12212.6
30°	1842.8	2810.4	4084.1	5507.4	7069.5	8605.8	10109.8	11598.2	13011.0	14291.7	15497.5
27.5°	2632.9	3940.7	5507.4	7250.7	9018.5	10755.1	12606.2	14366.2	16149.8	17714.3	19324.6
25°	3514.6	5182.3	7069.5	9018.5	11002.3	13120.0	15296.5	17434.6	19735.3	21821.1	24320.0
22.5°	4600.0	6531.6	8605.8	10755.1	13120.0	15611.0	18173.3	20989.7	24268.8	27855.7	31473.0
20°	5652.7	7801.7	10109.8	12606.2	15296.5	18173.3	21415.1	25673.2	30276.4	35760.5	40787.1
17.5°	6724.3	9067.9	11598.2	14366.2	17434.6	20989.7	25673.2	31324.6	37983.4	45407.2	52326.2
15°	7677.4	10205.4	13011.0	16149.8	19735.3	24268.8	30276.4	37983.4	46991.9	56634.6	66744.7
12.5°	8566.0	11264.2	14291.7	17714.3	21821.1	27855.7	35760.5	45407.2	56634.6	69200.2	78497.8
10°	9325.1	12212.6	15497.5	19324.6	24320.0	31473.0	40787.1	52326.2	66744.7	78497.8	88077.1
7.5°	9925.6	12964.9	16457.2	20612.8	26554.9	34929.9	45857.6	59663.2	74200.5	85977.2	95395.6
5°	10360.1	13510.5	17155.2	21552.9	28193.0	37478.5	49624.7	65266.1	79412.2	91106.4	100615.2
2.5°	10623.1	13841.3	17579.1	22125.3	29193.7	39042.0	51949.2	68751.9	82693.6	94253.7	103958.5
0°	10711.2	13952.1	17721.3	22317.6	29530.4	39569.2	52735.5	69936.2	83816.2	95297.3	105140.6
-2.5°	10623.1	13841.3	17579.1	22125.3	29193.7	39042.0	51949.2	68751.9	82693.6	94253.7	103958.5
-5°	10360.1	13510.5	17155.2	21552.9	28193.0	37478.5	49624.7	65266.1	79412.2	91106.4	100615.2
-7.5°	9925.6	12964.9	16457.2	20612.8	26554.9	34929.9	45857.6	59663.2	74200.5	85977.2	95395.6
-10°	9325.1	12212.6	15497.5	19324.6	24320.0	31473.0	40787.1	52326.2	66744.7	78497.8	88077.1
-12.5°	8566.0	11264.2	14291.7	17714.3	21821.1	27855.7	35760.5	45407.2	56634.6	69200.2	78497.8
-15°	7677.4	10205.4	13011.0	16149.8	19735.3	24268.8	30276.4	37983.4	46991.9	56634.6	66744.7
-17.5°	6724.3	9067.9	11598.2	14366.2	17434.6	20989.7	25673.2	31324.6	37983.4	45407.2	52326.2
-20°	5652.7	7801.7	10109.8	12606.2	15296.5	18173.3	21415.1	25673.2	30276.4	35760.5	40787.1



REPORT NUMBER: P1305890 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-320N-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°	4600.0	6531.6	8605.8	10755.1	13120.0	15611.0	18173.3	20989.7	24268.8	27855.7	31473.0
-25°	3514.6	5182.3	7069.5	9018.5	11002.3	13120.0	15296.5	17434.6	19735.3	21821.1	24320.0
-27.5°	2632.9	3940.7	5507.4	7250.7	9018.5	10755.1	12606.2	14366.2	16149.8	17714.3	19324.6
-30°	1842.8	2810.4	4084.1	5507.4	7069.5	8605.8	10109.8	11598.2	13011.0	14291.7	15497.5
-32.5°	1622.6	1929.3	2810.4	3940.7	5182.3	6531.6	7801.7	9067.9	10205.4	11264.2	12212.6
-35°	1492.7	1622.6	1842.8	2632.9	3514.6	4600.0	5652.7	6724.3	7677.4	8566.0	9325.1
-37.5°	1388.0	1483.2	1595.8	1714.2	2282.3	2930.7	3746.4	4587.5	5337.2	6097.2	6730.1
-40°	1271.1	1369.4	1454.8	1542.9	1646.7	1766.9	2320.2	2819.3	3331.6	3924.9	4417.8
-42.5°	1154.0	1240.8	1330.2	1408.1	1478.7	1554.5	1636.4	1710.1	1967.8	2318.1	2608.7
-45°	1063.6	1126.1	1190.9	1269.5	1342.9	1404.7	1460.0	1509.7	1567.4	1619.0	1661.6
-47.5°	988.9	1032.9	1084.8	1136.7	1190.4	1253.3	1310.5	1360.9	1401.2	1435.7	1464.3
-50°	909.8	958.8	997.6	1033.9	1075.7	1116.9	1154.3	1194.4	1235.8	1271.3	1300.7
-52.5°	815.5	865.8	912.0	953.2	984.4	1013.0	1039.1	1068.5	1095.5	1118.6	1137.7
-55°	692.2	751.4	807.2	850.3	887.3	921.1	950.6	971.9	990.5	1006.5	1019.6
-57.5°	563.6	620.3	673.1	720.9	765.2	805.8	837.5	862.5	884.4	903.1	918.5
-60°	437.8	484.4	532.8	578.3	620.3	658.8	692.2	722.0	748.1	770.3	788.6
-62.5°	321.2	360.8	400.7	437.8	472.1	505.1	536.6	564.7	589.2	610.1	627.3
-65°	221.3	253.1	282.9	310.7	336.5	364.7	390.1	412.8	432.6	449.4	463.2
-67.5°	147.3	167.1	185.6	202.9	223.3	244.1	263.0	279.7	294.3	306.7	316.9
-70°	94.6	104.9	114.5	125.8	139.8	152.6	164.2	174.4	183.4	191.0	197.2
-72.5°	57.1	63.6	70.2	78.0	85.1	91.7	97.5	102.8	107.3	111.2	114.4
-75°	29.1	32.3	37.5	42.3	46.7	50.7	54.3	57.6	60.4	62.7	64.7
-77.5°	16.7	18.6	20.3	21.9	23.4	24.8	26.0	27.1	28.1	28.9	29.5
-80°	11.9	12.4	12.8	13.2	13.6	13.9	14.2	14.5	14.7	14.9	15.1
-82.5°	8.0	8.3	8.7	9.0	9.2	9.5	9.7	9.9	10.1	10.3	10.4
-85°	4.7	4.9	5.0	5.1	5.3	5.4	5.4	5.5	5.6	5.7	5.7
-87.5°	2.4	2.4	2.5	2.6	2.6	2.7	2.7	2.8	2.8	2.8	2.9
-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: P1305890 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-320N-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°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.8
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.7	5.7	5.6	5.5
82.5°	10.5	10.5	10.6	10.6	10.6	10.5	10.5	10.4	10.3	10.1	9.9
80°	15.2	15.3	15.4	15.4	15.4	15.3	15.2	15.1	14.9	14.7	14.5
77.5°	30.0	30.4	30.6	30.7	30.6	30.4	30.0	29.5	28.9	28.1	27.1
75°	66.2	67.3	68.0	68.2	68.0	67.3	66.2	64.7	62.7	60.4	57.6
72.5°	116.9	118.7	119.7	120.1	119.7	118.7	116.9	114.4	111.2	107.3	102.8
70°	202.1	205.6	207.7	208.4	207.7	205.6	202.1	197.2	191.0	183.4	174.4
67.5°	324.9	330.6	334.1	335.2	334.1	330.6	324.9	316.9	306.7	294.3	279.7
65°	474.0	481.8	486.4	488.0	486.4	481.8	474.0	463.2	449.4	432.6	412.8
62.5°	640.7	650.3	656.1	658.0	656.1	650.3	640.7	627.3	610.1	589.2	564.7
60°	802.8	813.1	819.2	821.3	819.2	813.1	802.8	788.6	770.3	748.1	722.0
57.5°	930.5	939.2	944.4	946.1	944.4	939.2	930.5	918.5	903.1	884.4	862.5
55°	1029.9	1037.3	1041.7	1043.2	1041.7	1037.3	1029.9	1019.6	1006.5	990.5	971.9
52.5°	1152.6	1163.3	1169.7	1171.9	1169.7	1163.3	1152.6	1137.7	1118.6	1095.5	1068.5
50°	1323.6	1340.1	1350.1	1353.4	1350.1	1340.1	1323.6	1300.7	1271.3	1235.8	1194.4
47.5°	1486.7	1502.8	1512.6	1515.8	1512.6	1502.8	1486.7	1464.3	1435.7	1401.2	1360.9
45°	1695.1	1719.2	1733.7	1738.6	1733.7	1719.2	1695.1	1661.6	1619.0	1567.4	1509.7
42.5°	2837.2	3001.8	3101.1	3134.3	3101.1	3001.8	2837.2	2608.7	2318.1	1967.8	1710.1
40°	4806.1	5086.2	5255.3	5311.9	5255.3	5086.2	4806.1	4417.8	3924.9	3331.6	2819.3
37.5°	7229.5	7590.3	7808.4	7881.4	7808.4	7590.3	7229.5	6730.1	6097.2	5337.2	4587.5
35°	9925.6	10360.1	10623.1	10711.2	10623.1	10360.1	9925.6	9325.1	8566.0	7677.4	6724.3
32.5°	12964.9	13510.5	13841.3	13952.1	13841.3	13510.5	12964.9	12212.6	11264.2	10205.4	9067.9
30°	16457.2	17155.2	17579.1	17721.3	17579.1	17155.2	16457.2	15497.5	14291.7	13011.0	11598.2
27.5°	20612.8	21552.9	22125.3	22317.6	22125.3	21552.9	20612.8	19324.6	17714.3	16149.8	14366.2
25°	26554.9	28193.0	29193.7	29530.4	29193.7	28193.0	26554.9	24320.0	21821.1	19735.3	17434.6
22.5°	34929.9	37478.5	39042.0	39569.2	39042.0	37478.5	34929.9	31473.0	27855.7	24268.8	20989.7
20°	45857.6	49624.7	51949.2	52735.5	51949.2	49624.7	45857.6	40787.1	35760.5	30276.4	25673.2
17.5°	59663.2	65266.1	68751.9	69936.2	68751.9	65266.1	59663.2	52326.2	45407.2	37983.4	31324.6
15°	74200.5	79412.2	82693.6	83816.2	82693.6	79412.2	74200.5	66744.7	56634.6	46991.9	37983.4
12.5°	85977.2	91106.4	94253.7	95297.3	94253.7	91106.4	85977.2	78497.8	69200.2	56634.6	45407.2
10°	95395.6	100615.2	103958.5	105140.6	103958.5	100615.2	95395.6	88077.1	78497.8	66744.7	52326.2
7.5°	102846.1	108737.5	112305.9	113575.8	112305.9	108737.5	102846.1	95395.6	85977.2	74200.5	59663.2
5°	108737.5	114940.0	119163.5	120649.7	119163.5	114940.0	108737.5	100615.2	91106.4	79412.2	65266.1
2.5°	112305.9	119163.5	123243.5	124415.6	123243.5	119163.5	112305.9	103958.5	94253.7	82693.6	68751.9
0°	113575.8	120649.7	124415.6	124949.2	124415.6	120649.7	113575.8	105140.6	95297.3	83816.2	69936.2
-2.5°	112305.9	119163.5	123243.5	124415.6	123243.5	119163.5	112305.9	103958.5	94253.7	82693.6	68751.9
-5°	108737.5	114940.0	119163.5	120649.7	119163.5	114940.0	108737.5	100615.2	91106.4	79412.2	65266.1
-7.5°	102846.1	108737.5	112305.9	113575.8	112305.9	108737.5	102846.1	95395.6	85977.2	74200.5	59663.2
-10°	95395.6	100615.2	103958.5	105140.6	103958.5	100615.2	95395.6	88077.1	78497.8	66744.7	52326.2
-12.5°	85977.2	91106.4	94253.7	95297.3	94253.7	91106.4	85977.2	78497.8	69200.2	56634.6	45407.2
-15°	74200.5	79412.2	82693.6	83816.2	82693.6	79412.2	74200.5	66744.7	56634.6	46991.9	37983.4
-17.5°	59663.2	65266.1	68751.9	69936.2	68751.9	65266.1	59663.2	52326.2	45407.2	37983.4	31324.6
-20°	45857.6	49624.7	51949.2	52735.5	51949.2	49624.7	45857.6	40787.1	35760.5	30276.4	25673.2



REPORT NUMBER: P1305890 (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°	34929.9	37478.5	39042.0	39569.2	39042.0	37478.5	34929.9	31473.0	27855.7	24268.8	20989.7
-25°	26554.9	28193.0	29193.7	29530.4	29193.7	28193.0	26554.9	24320.0	21821.1	19735.3	17434.6
-27.5°	20612.8	21552.9	22125.3	22317.6	22125.3	21552.9	20612.8	19324.6	17714.3	16149.8	14366.2
-30°	16457.2	17155.2	17579.1	17721.3	17579.1	17155.2	16457.2	15497.5	14291.7	13011.0	11598.2
-32.5°	12964.9	13510.5	13841.3	13952.1	13841.3	13510.5	12964.9	12212.6	11264.2	10205.4	9067.9
-35°	9925.6	10360.1	10623.1	10711.2	10623.1	10360.1	9925.6	9325.1	8566.0	7677.4	6724.3
-37.5°	7229.5	7590.3	7808.4	7881.4	7808.4	7590.3	7229.5	6730.1	6097.2	5337.2	4587.5
-40°	4806.1	5086.2	5255.3	5311.9	5255.3	5086.2	4806.1	4417.8	3924.9	3331.6	2819.3
-42.5°	2837.2	3001.8	3101.1	3134.3	3101.1	3001.8	2837.2	2608.7	2318.1	1967.8	1710.1
-45°	1695.1	1719.2	1733.7	1738.6	1733.7	1719.2	1695.1	1661.6	1619.0	1567.4	1509.7
-47.5°	1486.7	1502.8	1512.6	1515.8	1512.6	1502.8	1486.7	1464.3	1435.7	1401.2	1360.9
-50°	1323.6	1340.1	1350.1	1353.4	1350.1	1340.1	1323.6	1300.7	1271.3	1235.8	1194.4
-52.5°	1152.6	1163.3	1169.7	1171.9	1169.7	1163.3	1152.6	1137.7	1118.6	1095.5	1068.5
-55°	1029.9	1037.3	1041.7	1043.2	1041.7	1037.3	1029.9	1019.6	1006.5	990.5	971.9
-57.5°	930.5	939.2	944.4	946.1	944.4	939.2	930.5	918.5	903.1	884.4	862.5
-60°	802.8	813.1	819.2	821.3	819.2	813.1	802.8	788.6	770.3	748.1	722.0
-62.5°	640.7	650.3	656.1	658.0	656.1	650.3	640.7	627.3	610.1	589.2	564.7
-65°	474.0	481.8	486.4	488.0	486.4	481.8	474.0	463.2	449.4	432.6	412.8
-67.5°	324.9	330.6	334.1	335.2	334.1	330.6	324.9	316.9	306.7	294.3	279.7
-70°	202.1	205.6	207.7	208.4	207.7	205.6	202.1	197.2	191.0	183.4	174.4
-72.5°	116.9	118.7	119.7	120.1	119.7	118.7	116.9	114.4	111.2	107.3	102.8
-75°	66.2	67.3	68.0	68.2	68.0	67.3	66.2	64.7	62.7	60.4	57.6
-77.5°	30.0	30.4	30.6	30.7	30.6	30.4	30.0	29.5	28.9	28.1	27.1
-80°	15.2	15.3	15.4	15.4	15.4	15.3	15.2	15.1	14.9	14.7	14.5
-82.5°	10.5	10.5	10.6	10.6	10.6	10.5	10.5	10.4	10.3	10.1	9.9
-85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.7	5.7	5.6	5.5
-87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	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°	2.7	2.7	2.6	2.6	2.5	2.4	2.4	2.3	2.2	2.1	2.1
85°	5.4	5.4	5.3	5.1	5.0	4.9	4.7	4.6	4.4	4.3	4.1
82.5°	9.7	9.5	9.2	9.0	8.7	8.3	8.0	7.6	7.2	6.8	6.4
80°	14.2	13.9	13.6	13.2	12.8	12.4	11.9	11.4	10.9	10.3	9.7
77.5°	26.0	24.8	23.4	21.9	20.3	18.6	16.7	15.2	14.5	13.8	13.1
75°	54.3	50.7	46.7	42.3	37.5	32.3	29.1	26.7	24.2	21.5	18.7
72.5°	97.5	91.7	85.1	78.0	70.2	63.6	57.1	50.2	43.0	35.3	29.3
70°	164.2	152.6	139.8	125.8	114.5	104.9	94.6	83.6	72.1	62.3	53.1
67.5°	263.0	244.1	223.3	202.9	185.6	167.1	147.3	126.3	110.7	97.0	82.7
65°	390.1	364.7	336.5	310.7	282.9	253.1	221.3	193.9	169.2	143.2	117.8
62.5°	536.6	505.1	472.1	437.8	400.7	360.8	321.2	283.9	244.7	205.0	175.1
60°	692.2	658.8	620.3	578.3	532.8	484.4	437.8	388.4	336.5	291.2	244.1
57.5°	837.5	805.8	765.2	720.9	673.1	620.3	563.6	503.7	445.5	386.4	326.5
55°	950.6	921.1	887.3	850.3	807.2	751.4	692.2	628.6	560.4	489.1	422.4
52.5°	1039.1	1013.0	984.4	953.2	912.0	865.8	815.5	748.1	677.4	601.5	521.8
50°	1154.3	1116.9	1075.7	1033.9	997.6	958.8	909.8	854.3	788.6	709.5	626.3
47.5°	1310.5	1253.3	1190.4	1136.7	1084.8	1032.9	988.9	941.6	879.5	813.1	725.7
45°	1460.0	1404.7	1342.9	1269.5	1190.9	1126.1	1063.6	1009.2	957.7	892.3	821.3
42.5°	1636.4	1554.5	1478.7	1408.1	1330.2	1240.8	1154.0	1084.3	1019.4	962.7	892.3
40°	2320.2	1766.9	1646.7	1542.9	1454.8	1369.4	1271.1	1168.1	1091.2	1019.4	957.7
37.5°	3746.4	2930.7	2282.3	1714.2	1595.8	1483.2	1388.0	1281.3	1168.1	1084.3	1009.2
35°	5652.7	4600.0	3514.6	2632.9	1842.8	1622.6	1492.7	1388.0	1271.1	1154.0	1063.6
32.5°	7801.7	6531.6	5182.3	3940.7	2810.4	1929.3	1622.6	1483.2	1369.4	1240.8	1126.1
30°	10109.8	8605.8	7069.5	5507.4	4084.1	2810.4	1842.8	1595.8	1454.8	1330.2	1190.9
27.5°	12606.2	10755.1	9018.5	7250.7	5507.4	3940.7	2632.9	1714.2	1542.9	1408.1	1269.5
25°	15296.5	13120.0	11002.3	9018.5	7069.5	5182.3	3514.6	2282.3	1646.7	1478.7	1342.9
22.5°	18173.3	15611.0	13120.0	10755.1	8605.8	6531.6	4600.0	2930.7	1766.9	1554.5	1404.7
20°	21415.1	18173.3	15296.5	12606.2	10109.8	7801.7	5652.7	3746.4	2320.2	1636.4	1460.0
17.5°	25673.2	20989.7	17434.6	14366.2	11598.2	9067.9	6724.3	4587.5	2819.3	1710.1	1509.7
15°	30276.4	24268.8	19735.3	16149.8	13011.0	10205.4	7677.4	5337.2	3331.6	1967.8	1567.4
12.5°	35760.5	27855.7	21821.1	17714.3	14291.7	11264.2	8566.0	6097.2	3924.9	2318.1	1619.0
10°	40787.1	31473.0	24320.0	19324.6	15497.5	12212.6	9325.1	6730.1	4417.8	2608.7	1661.6
7.5°	45857.6	34929.9	26554.9	20612.8	16457.2	12964.9	9925.6	7229.5	4806.1	2837.2	1695.1
5°	49624.7	37478.5	28193.0	21552.9	17155.2	13510.5	10360.1	7590.3	5086.2	3001.8	1719.2
2.5°	51949.2	39042.0	29193.7	22125.3	17579.1	13841.3	10623.1	7808.4	5255.3	3101.1	1733.7
0°	52735.5	39569.2	29530.4	22317.6	17721.3	13952.1	10711.2	7881.4	5311.9	3134.3	1738.6
-2.5°	51949.2	39042.0	29193.7	22125.3	17579.1	13841.3	10623.1	7808.4	5255.3	3101.1	1733.7
-5°	49624.7	37478.5	28193.0	21552.9	17155.2	13510.5	10360.1	7590.3	5086.2	3001.8	1719.2
-7.5°	45857.6	34929.9	26554.9	20612.8	16457.2	12964.9	9925.6	7229.5	4806.1	2837.2	1695.1
-10°	40787.1	31473.0	24320.0	19324.6	15497.5	12212.6	9325.1	6730.1	4417.8	2608.7	1661.6
-12.5°	35760.5	27855.7	21821.1	17714.3	14291.7	11264.2	8566.0	6097.2	3924.9	2318.1	1619.0
-15°	30276.4	24268.8	19735.3	16149.8	13011.0	10205.4	7677.4	5337.2	3331.6	1967.8	1567.4
-17.5°	25673.2	20989.7	17434.6	14366.2	11598.2	9067.9	6724.3	4587.5	2819.3	1710.1	1509.7
-20°	21415.1	18173.3	15296.5	12606.2	10109.8	7801.7	5652.7	3746.4	2320.2	1636.4	1460.0



REPORT NUMBER: P1305890 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-320N-40-80-4S-HEG-A

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	18173.3	15611.0	13120.0	10755.1	8605.8	6531.6	4600.0	2930.7	1766.9	1554.5	1404.7
-25°	15296.5	13120.0	11002.3	9018.5	7069.5	5182.3	3514.6	2282.3	1646.7	1478.7	1342.9
-27.5°	12606.2	10755.1	9018.5	7250.7	5507.4	3940.7	2632.9	1714.2	1542.9	1408.1	1269.5
-30°	10109.8	8605.8	7069.5	5507.4	4084.1	2810.4	1842.8	1595.8	1454.8	1330.2	1190.9
-32.5°	7801.7	6531.6	5182.3	3940.7	2810.4	1929.3	1622.6	1483.2	1369.4	1240.8	1126.1
-35°	5652.7	4600.0	3514.6	2632.9	1842.8	1622.6	1492.7	1388.0	1271.1	1154.0	1063.6
-37.5°	3746.4	2930.7	2282.3	1714.2	1595.8	1483.2	1388.0	1281.3	1168.1	1084.3	1009.2
-40°	2320.2	1766.9	1646.7	1542.9	1454.8	1369.4	1271.1	1168.1	1091.2	1019.4	957.7
-42.5°	1636.4	1554.5	1478.7	1408.1	1330.2	1240.8	1154.0	1084.3	1019.4	962.7	892.3
-45°	1460.0	1404.7	1342.9	1269.5	1190.9	1126.1	1063.6	1009.2	957.7	892.3	821.3
-47.5°	1310.5	1253.3	1190.4	1136.7	1084.8	1032.9	988.9	941.6	879.5	813.1	725.7
-50°	1154.3	1116.9	1075.7	1033.9	997.6	958.8	909.8	854.3	788.6	709.5	626.3
-52.5°	1039.1	1013.0	984.4	953.2	912.0	865.8	815.5	748.1	677.4	601.5	521.8
-55°	950.6	921.1	887.3	850.3	807.2	751.4	692.2	628.6	560.4	489.1	422.4
-57.5°	837.5	805.8	765.2	720.9	673.1	620.3	563.6	503.7	445.5	386.4	326.5
-60°	692.2	658.8	620.3	578.3	532.8	484.4	437.8	388.4	336.5	291.2	244.1
-62.5°	536.6	505.1	472.1	437.8	400.7	360.8	321.2	283.9	244.7	205.0	175.1
-65°	390.1	364.7	336.5	310.7	282.9	253.1	221.3	193.9	169.2	143.2	117.8
-67.5°	263.0	244.1	223.3	202.9	185.6	167.1	147.3	126.3	110.7	97.0	82.7
-70°	164.2	152.6	139.8	125.8	114.5	104.9	94.6	83.6	72.1	62.3	53.1
-72.5°	97.5	91.7	85.1	78.0	70.2	63.6	57.1	50.2	43.0	35.3	29.3
-75°	54.3	50.7	46.7	42.3	37.5	32.3	29.1	26.7	24.2	21.5	18.7
-77.5°	26.0	24.8	23.4	21.9	20.3	18.6	16.7	15.2	14.5	13.8	13.1
-80°	14.2	13.9	13.6	13.2	12.8	12.4	11.9	11.4	10.9	10.3	9.7
-82.5°	9.7	9.5	9.2	9.0	8.7	8.3	8.0	7.6	7.2	6.8	6.4
-85°	5.4	5.4	5.3	5.1	5.0	4.9	4.7	4.6	4.4	4.3	4.1
-87.5°	2.7	2.7	2.6	2.6	2.5	2.4	2.4	2.3	2.2	2.1	2.1
-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: P1305890 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-320N-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°	2.0	1.9	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	0.9
85°	3.9	3.7	3.5	3.3	3.1	2.9	2.7	2.4	2.2	2.0	1.7
82.5°	5.9	5.6	5.3	5.0	4.7	4.3	4.0	3.7	3.3	3.0	2.6
80°	9.1	8.5	7.9	7.2	6.5	5.8	5.3	4.9	4.4	3.9	3.5
77.5°	12.3	11.6	10.7	9.9	9.0	8.1	7.2	6.3	5.5	4.9	4.3
75°	15.8	14.6	13.6	12.6	11.5	10.5	9.4	8.3	7.1	6.0	5.2
72.5°	25.9	22.4	18.8	15.3	14.1	12.8	11.5	10.2	8.9	7.5	6.2
70°	43.6	33.7	27.7	23.4	19.0	15.1	13.6	12.2	10.6	9.1	7.5
67.5°	67.9	56.8	45.3	33.4	26.8	21.7	16.5	14.1	12.4	10.6	8.9
65°	101.2	84.0	66.8	53.6	40.1	28.9	23.1	17.2	14.1	12.2	10.2
62.5°	144.0	115.2	95.7	75.6	58.7	43.4	29.5	23.1	16.5	13.6	11.5
60°	199.3	164.2	127.9	102.8	80.3	60.4	43.4	28.9	21.7	15.1	12.8
57.5°	273.5	218.8	176.3	136.0	105.1	80.3	58.7	40.1	26.8	19.0	14.1
55°	353.5	291.3	230.5	180.4	136.0	102.8	75.6	53.6	33.4	23.4	15.3
52.5°	444.3	367.9	297.3	230.5	176.3	127.9	95.7	66.8	45.3	27.7	18.8
50°	538.2	451.6	367.9	291.3	218.8	164.2	115.2	84.0	56.8	33.7	22.4
47.5°	634.6	538.2	444.3	353.5	273.5	199.3	144.0	101.2	67.9	43.6	25.9
45°	725.7	626.3	521.8	422.4	326.5	244.1	175.1	117.8	82.7	53.1	29.3
42.5°	813.1	709.5	601.5	489.1	386.4	291.2	205.0	143.2	97.0	62.3	35.3
40°	879.5	788.6	677.4	560.4	445.5	336.5	244.7	169.2	110.7	72.1	43.0
37.5°	941.6	854.3	748.1	628.6	503.7	388.4	283.9	193.9	126.3	83.6	50.2
35°	988.9	909.8	815.5	692.2	563.6	437.8	321.2	221.3	147.3	94.6	57.1
32.5°	1032.9	958.8	865.8	751.4	620.3	484.4	360.8	253.1	167.1	104.9	63.6
30°	1084.8	997.6	912.0	807.2	673.1	532.8	400.7	282.9	185.6	114.5	70.2
27.5°	1136.7	1033.9	953.2	850.3	720.9	578.3	437.8	310.7	202.9	125.8	78.0
25°	1190.4	1075.7	984.4	887.3	765.2	620.3	472.1	336.5	223.3	139.8	85.1
22.5°	1253.3	1116.9	1013.0	921.1	805.8	658.8	505.1	364.7	244.1	152.6	91.7
20°	1310.5	1154.3	1039.1	950.6	837.5	692.2	536.6	390.1	263.0	164.2	97.5
17.5°	1360.9	1194.4	1068.5	971.9	862.5	722.0	564.7	412.8	279.7	174.4	102.8
15°	1401.2	1235.8	1095.5	990.5	884.4	748.1	589.2	432.6	294.3	183.4	107.3
12.5°	1435.7	1271.3	1118.6	1006.5	903.1	770.3	610.1	449.4	306.7	191.0	111.2
10°	1464.3	1300.7	1137.7	1019.6	918.5	788.6	627.3	463.2	316.9	197.2	114.4
7.5°	1486.7	1323.6	1152.6	1029.9	930.5	802.8	640.7	474.0	324.9	202.1	116.9
5°	1502.8	1340.1	1163.3	1037.3	939.2	813.1	650.3	481.8	330.6	205.6	118.7
2.5°	1512.6	1350.1	1169.7	1041.7	944.4	819.2	656.1	486.4	334.1	207.7	119.7
0°	1515.8	1353.4	1171.9	1043.2	946.1	821.3	658.0	488.0	335.2	208.4	120.1
-2.5°	1512.6	1350.1	1169.7	1041.7	944.4	819.2	656.1	486.4	334.1	207.7	119.7
-5°	1502.8	1340.1	1163.3	1037.3	939.2	813.1	650.3	481.8	330.6	205.6	118.7
-7.5°	1486.7	1323.6	1152.6	1029.9	930.5	802.8	640.7	474.0	324.9	202.1	116.9
-10°	1464.3	1300.7	1137.7	1019.6	918.5	788.6	627.3	463.2	316.9	197.2	114.4
-12.5°	1435.7	1271.3	1118.6	1006.5	903.1	770.3	610.1	449.4	306.7	191.0	111.2
-15°	1401.2	1235.8	1095.5	990.5	884.4	748.1	589.2	432.6	294.3	183.4	107.3
-17.5°	1360.9	1194.4	1068.5	971.9	862.5	722.0	564.7	412.8	279.7	174.4	102.8
-20°	1310.5	1154.3	1039.1	950.6	837.5	692.2	536.6	390.1	263.0	164.2	97.5



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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°	1253.3	1116.9	1013.0	921.1	805.8	658.8	505.1	364.7	244.1	152.6	91.7
-25°	1190.4	1075.7	984.4	887.3	765.2	620.3	472.1	336.5	223.3	139.8	85.1
-27.5°	1136.7	1033.9	953.2	850.3	720.9	578.3	437.8	310.7	202.9	125.8	78.0
-30°	1084.8	997.6	912.0	807.2	673.1	532.8	400.7	282.9	185.6	114.5	70.2
-32.5°	1032.9	958.8	865.8	751.4	620.3	484.4	360.8	253.1	167.1	104.9	63.6
-35°	988.9	909.8	815.5	692.2	563.6	437.8	321.2	221.3	147.3	94.6	57.1
-37.5°	941.6	854.3	748.1	628.6	503.7	388.4	283.9	193.9	126.3	83.6	50.2
-40°	879.5	788.6	677.4	560.4	445.5	336.5	244.7	169.2	110.7	72.1	43.0
-42.5°	813.1	709.5	601.5	489.1	386.4	291.2	205.0	143.2	97.0	62.3	35.3
-45°	725.7	626.3	521.8	422.4	326.5	244.1	175.1	117.8	82.7	53.1	29.3
-47.5°	634.6	538.2	444.3	353.5	273.5	199.3	144.0	101.2	67.9	43.6	25.9
-50°	538.2	451.6	367.9	291.3	218.8	164.2	115.2	84.0	56.8	33.7	22.4
-52.5°	444.3	367.9	297.3	230.5	176.3	127.9	95.7	66.8	45.3	27.7	18.8
-55°	353.5	291.3	230.5	180.4	136.0	102.8	75.6	53.6	33.4	23.4	15.3
-57.5°	273.5	218.8	176.3	136.0	105.1	80.3	58.7	40.1	26.8	19.0	14.1
-60°	199.3	164.2	127.9	102.8	80.3	60.4	43.4	28.9	21.7	15.1	12.8
-62.5°	144.0	115.2	95.7	75.6	58.7	43.4	29.5	23.1	16.5	13.6	11.5
-65°	101.2	84.0	66.8	53.6	40.1	28.9	23.1	17.2	14.1	12.2	10.2
-67.5°	67.9	56.8	45.3	33.4	26.8	21.7	16.5	14.1	12.4	10.6	8.9
-70°	43.6	33.7	27.7	23.4	19.0	15.1	13.6	12.2	10.6	9.1	7.5
-72.5°	25.9	22.4	18.8	15.3	14.1	12.8	11.5	10.2	8.9	7.5	6.2
-75°	15.8	14.6	13.6	12.6	11.5	10.5	9.4	8.3	7.1	6.0	5.2
-77.5°	12.3	11.6	10.7	9.9	9.0	8.1	7.2	6.3	5.5	4.9	4.3
-80°	9.1	8.5	7.9	7.2	6.5	5.8	5.3	4.9	4.4	3.9	3.5
-82.5°	5.9	5.6	5.3	5.0	4.7	4.3	4.0	3.7	3.3	3.0	2.6
-85°	3.9	3.7	3.5	3.3	3.1	2.9	2.7	2.4	2.2	2.0	1.7
-87.5°	2.0	1.9	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	0.9
-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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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°	0.8	0.6	0.5	0.4	0.3	0.1	0.0
85°	1.5	1.3	1.0	0.8	0.5	0.3	0.0
82.5°	2.2	1.9	1.5	1.1	0.8	0.4	0.0
80°	3.0	2.5	2.0	1.5	1.0	0.5	0.0
77.5°	3.7	3.1	2.5	1.9	1.3	0.6	0.0
75°	4.5	3.7	3.0	2.2	1.5	0.8	0.0
72.5°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
70°	6.0	4.9	3.9	3.0	2.0	1.0	0.0
67.5°	7.1	5.5	4.4	3.3	2.2	1.1	0.0
65°	8.3	6.3	4.9	3.7	2.4	1.2	0.0
62.5°	9.4	7.2	5.3	4.0	2.7	1.3	0.0
60°	10.5	8.1	5.8	4.3	2.9	1.4	0.0
57.5°	11.5	9.0	6.5	4.7	3.1	1.6	0.0
55°	12.6	9.9	7.2	5.0	3.3	1.7	0.0
52.5°	13.6	10.7	7.9	5.3	3.5	1.8	0.0
50°	14.6	11.6	8.5	5.6	3.7	1.9	0.0
47.5°	15.8	12.3	9.1	5.9	3.9	2.0	0.0
45°	18.7	13.1	9.7	6.4	4.1	2.1	0.0
42.5°	21.5	13.8	10.3	6.8	4.3	2.1	0.0
40°	24.2	14.5	10.9	7.2	4.4	2.2	0.0
37.5°	26.7	15.2	11.4	7.6	4.6	2.3	0.0
35°	29.1	16.7	11.9	8.0	4.7	2.4	0.0
32.5°	32.3	18.6	12.4	8.3	4.9	2.4	0.0
30°	37.5	20.3	12.8	8.7	5.0	2.5	0.0
27.5°	42.3	21.9	13.2	9.0	5.1	2.6	0.0
25°	46.7	23.4	13.6	9.2	5.3	2.6	0.0
22.5°	50.7	24.8	13.9	9.5	5.4	2.7	0.0
20°	54.3	26.0	14.2	9.7	5.4	2.7	0.0
17.5°	57.6	27.1	14.5	9.9	5.5	2.8	0.0
15°	60.4	28.1	14.7	10.1	5.6	2.8	0.0
12.5°	62.7	28.9	14.9	10.3	5.7	2.8	0.0
10°	64.7	29.5	15.1	10.4	5.7	2.9	0.0
7.5°	66.2	30.0	15.2	10.5	5.8	2.9	0.0
5°	67.3	30.4	15.3	10.5	5.8	2.9	0.0
2.5°	68.0	30.6	15.4	10.6	5.8	2.9	0.0
0°	68.2	30.7	15.4	10.6	5.8	2.9	0.0
-2.5°	68.0	30.6	15.4	10.6	5.8	2.9	0.0
-5°	67.3	30.4	15.3	10.5	5.8	2.9	0.0
-7.5°	66.2	30.0	15.2	10.5	5.8	2.9	0.0
-10°	64.7	29.5	15.1	10.4	5.7	2.9	0.0
-12.5°	62.7	28.9	14.9	10.3	5.7	2.8	0.0
-15°	60.4	28.1	14.7	10.1	5.6	2.8	0.0
-17.5°	57.6	27.1	14.5	9.9	5.5	2.8	0.0
-20°	54.3	26.0	14.2	9.7	5.4	2.7	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	50.7	24.8	13.9	9.5	5.4	2.7	0.0
-25°	46.7	23.4	13.6	9.2	5.3	2.6	0.0
-27.5°	42.3	21.9	13.2	9.0	5.1	2.6	0.0
-30°	37.5	20.3	12.8	8.7	5.0	2.5	0.0
-32.5°	32.3	18.6	12.4	8.3	4.9	2.4	0.0
-35°	29.1	16.7	11.9	8.0	4.7	2.4	0.0
-37.5°	26.7	15.2	11.4	7.6	4.6	2.3	0.0
-40°	24.2	14.5	10.9	7.2	4.4	2.2	0.0
-42.5°	21.5	13.8	10.3	6.8	4.3	2.1	0.0
-45°	18.7	13.1	9.7	6.4	4.1	2.1	0.0
-47.5°	15.8	12.3	9.1	5.9	3.9	2.0	0.0
-50°	14.6	11.6	8.5	5.6	3.7	1.9	0.0
-52.5°	13.6	10.7	7.9	5.3	3.5	1.8	0.0
-55°	12.6	9.9	7.2	5.0	3.3	1.7	0.0
-57.5°	11.5	9.0	6.5	4.7	3.1	1.6	0.0
-60°	10.5	8.1	5.8	4.3	2.9	1.4	0.0
-62.5°	9.4	7.2	5.3	4.0	2.7	1.3	0.0
-65°	8.3	6.3	4.9	3.7	2.4	1.2	0.0
-67.5°	7.1	5.5	4.4	3.3	2.2	1.1	0.0
-70°	6.0	4.9	3.9	3.0	2.0	1.0	0.0
-72.5°	5.2	4.3	3.5	2.6	1.7	0.9	0.0
-75°	4.5	3.7	3.0	2.2	1.5	0.8	0.0
-77.5°	3.7	3.1	2.5	1.9	1.3	0.6	0.0
-80°	3.0	2.5	2.0	1.5	1.0	0.5	0.0
-82.5°	2.2	1.9	1.5	1.1	0.8	0.4	0.0
-85°	1.5	1.3	1.0	0.8	0.5	0.3	0.0
-87.5°	0.8	0.6	0.5	0.4	0.3	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)