

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: P1305419 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-680R-40-80-1S-HEG-A**

Issue Date: 2/3/2026

Test Information

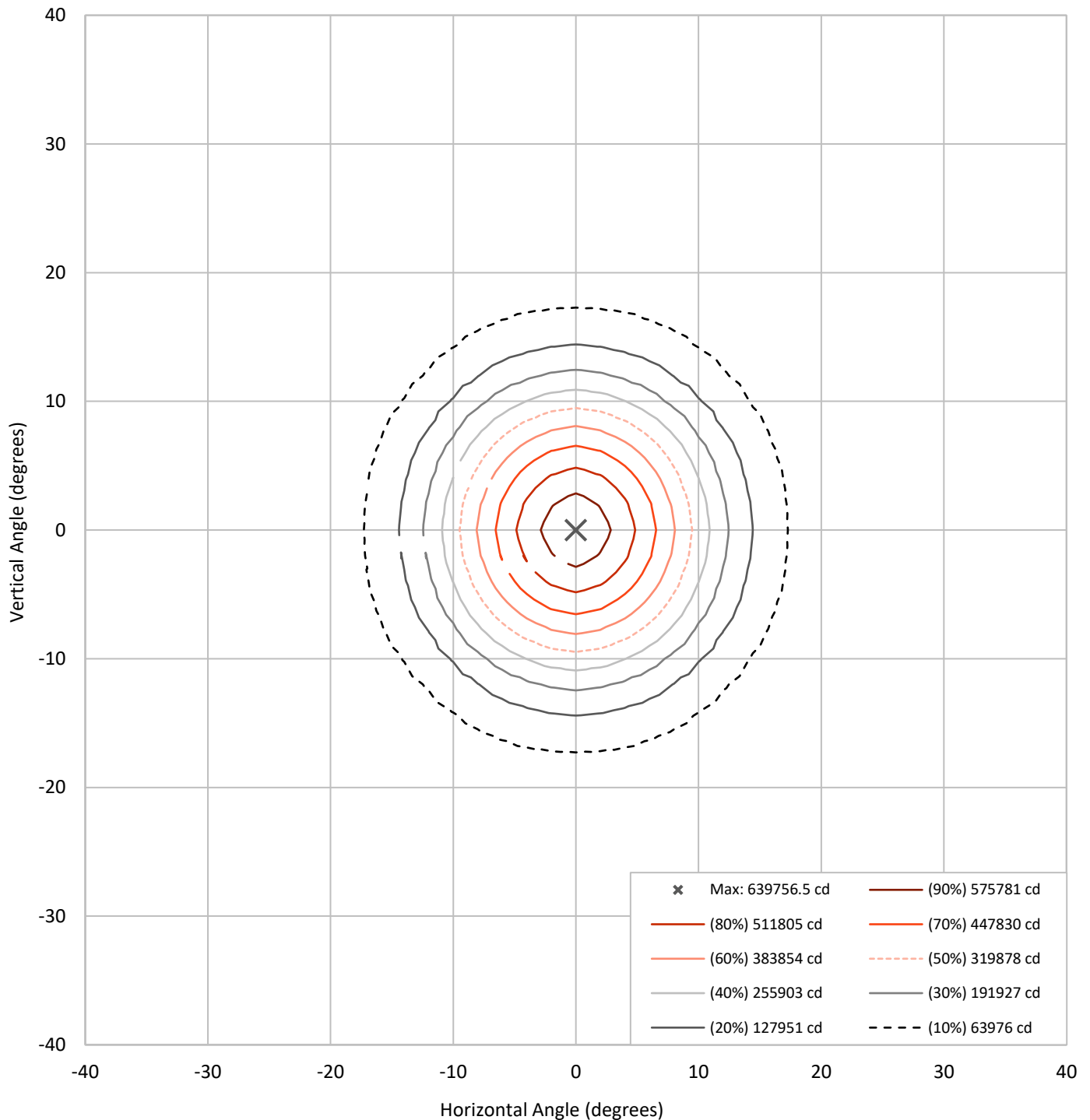
Test Method: LM-79-08
Report Number: P1305419 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-61)
Test Lab: INNOVATION CENTER
Issue Date: 2/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-08-680R-40-80-1S-HEG-A
Description: EPHEBUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	86664.9 lumens	Max Intensity:	639756.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	120.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 19°V	Field Angle (10%):	34.3°H x 34.3°V
Beam Lumens:	37353.7 lumens	Field Lumens:	68813.7 lumens
Beam Efficiency:	43.1%	Field Efficiency:	79.4%
Input Watts (W):	718		
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





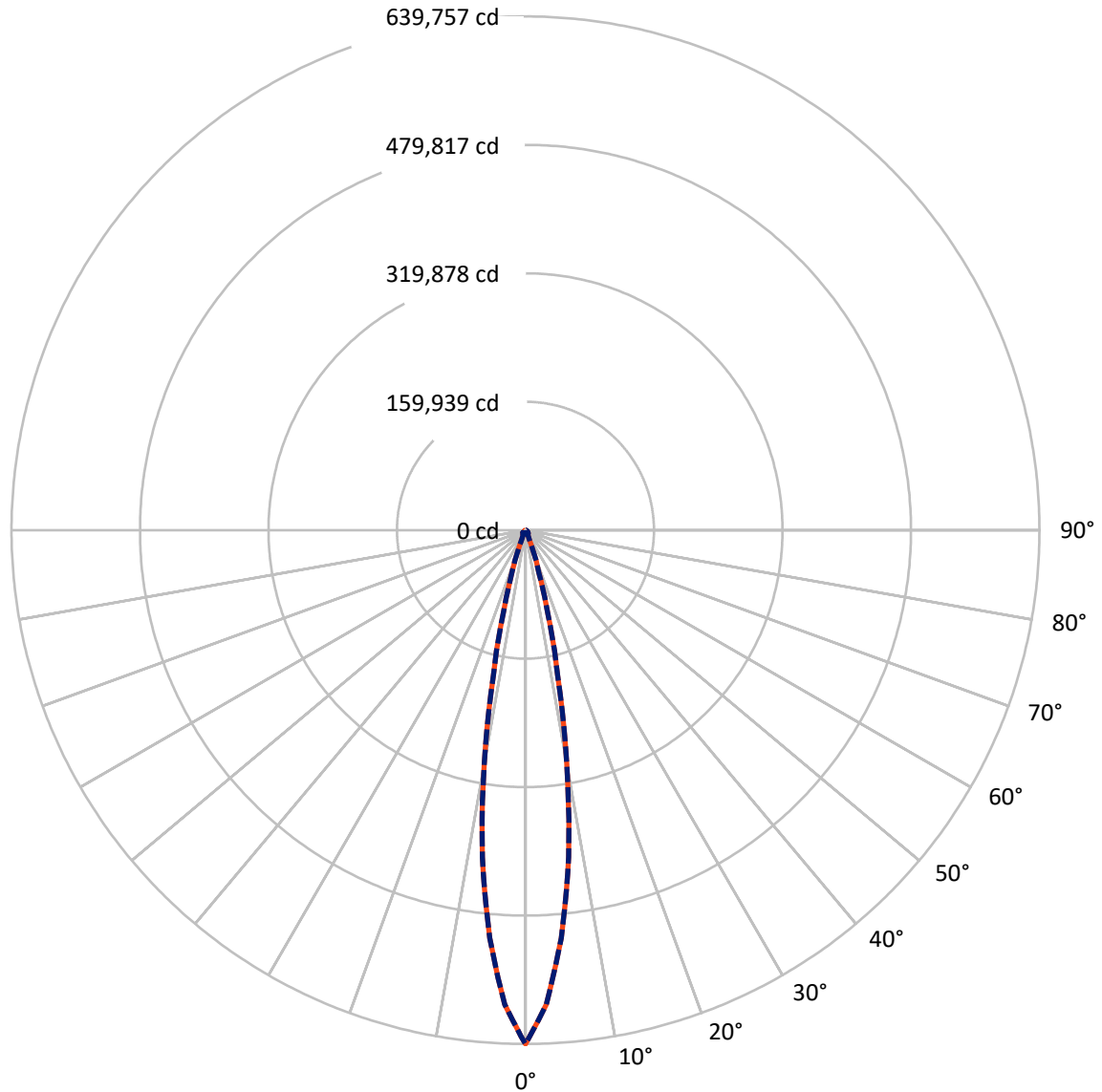
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Lumen Table

90	0.1	0.8		3.0		7.5		9.9		7.5		3.0		0.8		0.1
80	0.1	0.8		3.0		7.5		9.9		7.5		3.0		0.8		0.1
70	0.4	0.5	1.8	5.4	10.9	16.9	21.9	24.6	24.6	21.9	16.9	10.9	5.4	1.8	0.5	0.4
60		1.4	6.4	15.7	27.0	36.5	42.7	46.1	46.1	42.7	36.5	27.0	15.7	6.4	1.4	
50	1.0	3.3	12.8	26.8	39.1	66.2	104.3	125.3	125.3	104.3	66.2	39.1	26.8	12.8	3.3	1.0
40		5.8	19.1	33.8	80.0	136.8	151.2	151.4	151.4	151.2	136.8	80.0	33.8	19.1	5.8	
30	2.2	8.1	23.3	52.2	123.8	137.1	150.6	261.1	261.1	150.6	137.1	123.8	52.2	23.3	8.1	2.2
20		9.9	25.5	77.4	128.1	141.5	827.6	3090.4	3090.4	827.6	141.5	128.1	77.4	25.5	9.9	
10	2.8	10.8	26.7	89.9	124.3	240.2	3015.5	11867.2	11867.2	3015.5	240.2	124.3	89.9	26.7	10.8	2.8
0		10.8	26.7	89.9	124.3	240.2	3015.5	11867.2	11867.2	3015.5	240.2	124.3	89.9	26.7	10.8	
-10	2.2	9.9	25.5	77.4	128.1	141.5	827.6	3090.4	3090.4	827.6	141.5	128.1	77.4	25.5	9.9	2.2
-20		8.1	23.3	52.2	123.8	137.1	150.6	261.1	261.1	150.6	137.1	123.8	52.2	23.3	8.1	
-30	1.0	5.8	19.1	33.8	80.0	136.8	151.2	151.4	151.4	151.2	136.8	80.0	33.8	19.1	5.8	1.0
-40		3.3	12.8	26.8	39.1	66.2	104.3	125.3	125.3	104.3	66.2	39.1	26.8	12.8	3.3	
-50	0.4	1.4	6.4	15.7	27.0	36.5	42.7	46.1	46.1	42.7	36.5	27.0	15.7	6.4	1.4	0.4
-60		0.5	1.8	5.4	10.9	16.9	21.9	24.6	24.6	21.9	16.9	10.9	5.4	1.8	0.5	
-70	0.1	0.8		3.0		7.5		9.9		7.5		3.0		0.8		0.1
-80		0.8		3.0		7.5		9.9		7.5		3.0		0.8		
-90	0.1	0.8		3.0		7.5		9.9		7.5		3.0		0.8		0.1

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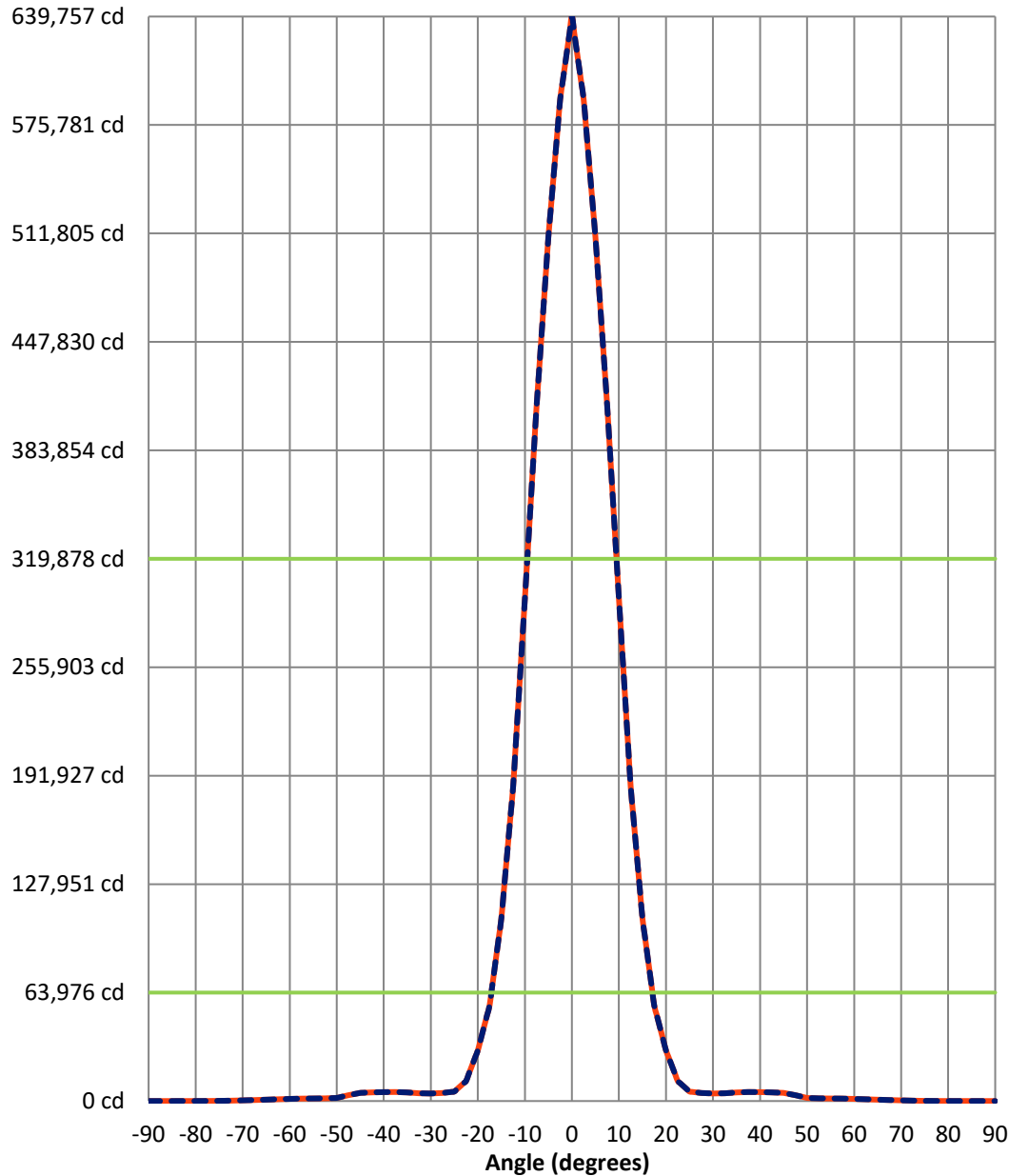
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 19°
 V Angle: 19°
 Lumens: 37353.7
 Efficiency: 43.1%

Field:
 H Angle: 34.3°
 V Angle: 34.3°
 Lumens: 68813.7
 Efficiency: 79.4%

Spill:
 Lumens: 17851.2
 Efficiency: 20.6%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 0-Deg

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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.8	2.1	2.3	2.6
85°	0.0	0.5	1.1	1.6	2.1	2.6	3.2	3.7	4.2	4.7	5.2
82.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.7	5.5	6.2	6.8	7.3
80°	0.0	1.1	2.1	3.2	4.2	5.3	6.2	7.0	7.8	8.5	9.2
77.5°	0.0	1.3	2.6	4.0	5.3	6.4	7.4	8.4	9.3	10.2	11.6
75°	0.0	1.6	3.2	4.7	6.2	7.4	8.6	9.7	11.0	13.2	15.4
72.5°	0.0	1.8	3.7	5.5	7.0	8.4	9.7	11.4	14.0	16.6	19.2
70°	0.0	2.1	4.2	6.2	7.8	9.3	11.0	14.0	17.0	20.0	23.4
67.5°	0.0	2.3	4.7	6.8	8.5	10.2	13.2	16.6	20.0	23.8	27.6
65°	0.0	2.6	5.2	7.3	9.2	11.6	15.4	19.2	23.4	27.6	32.7
62.5°	0.0	2.8	5.6	7.9	10.0	13.4	17.6	22.0	26.7	31.9	39.8
60°	0.0	3.0	6.1	8.4	10.7	15.2	19.7	24.8	29.9	38.2	46.8
57.5°	0.0	3.3	6.4	8.9	12.0	16.9	22.0	27.6	34.9	44.3	64.3
55°	0.0	3.5	6.8	9.4	13.3	18.5	24.3	30.3	40.3	53.4	86.5
52.5°	0.0	3.7	7.1	9.9	14.6	20.2	26.6	34.6	45.4	72.8	108.1
50°	0.0	3.9	7.4	10.4	15.9	22.0	28.8	39.0	53.9	91.7	148.6
47.5°	0.0	4.1	7.7	10.9	17.1	23.8	31.1	43.3	70.1	109.9	190.2
45°	0.0	4.3	8.0	11.8	18.3	25.5	34.6	47.4	85.7	145.5	230.3
42.5°	0.0	4.5	8.3	12.6	19.4	27.1	38.0	56.6	100.6	180.0	280.5
40°	0.0	4.7	8.5	13.4	20.5	28.6	41.2	69.1	119.8	213.1	330.4
37.5°	0.0	4.8	8.8	14.2	21.7	30.1	44.2	80.9	147.7	247.7	378.1
35°	0.0	5.0	9.0	14.9	22.8	32.2	47.1	92.2	174.1	288.2	425.0
32.5°	0.0	5.1	9.3	15.6	23.8	34.4	51.7	102.7	199.0	326.4	471.9
30°	0.0	5.3	9.5	16.2	24.8	36.5	60.1	115.1	222.3	362.1	515.8
27.5°	0.0	5.4	9.7	16.8	25.7	38.5	67.9	133.9	246.8	395.3	556.7
25°	0.0	5.5	9.8	17.3	26.6	40.3	75.1	151.2	273.8	427.9	594.8
22.5°	0.0	5.6	10.0	17.8	27.3	41.9	81.7	167.1	298.5	458.7	636.4
20°	0.0	5.7	10.1	18.2	28.0	43.4	87.6	181.3	320.8	486.4	673.9
17.5°	0.0	5.8	10.3	18.6	28.6	44.7	92.9	194.0	340.5	511.1	707.3
15°	0.0	5.9	10.4	19.0	29.1	45.8	97.5	205.0	357.8	532.6	736.4
12.5°	0.0	6.0	10.5	19.2	29.6	46.8	101.4	214.4	372.4	550.9	761.2
10°	0.0	6.0	10.6	19.5	29.9	47.6	104.6	222.1	384.5	566.0	781.6
7.5°	0.0	6.0	10.6	19.7	30.2	48.2	107.1	228.1	393.9	577.7	797.5
5°	0.0	6.1	10.7	19.8	30.4	48.6	108.9	232.4	400.6	586.2	808.9
2.5°	0.0	6.1	10.7	19.9	30.6	48.9	109.9	235.0	404.6	591.2	815.8
0°	0.0	6.1	10.7	19.9	30.6	49.0	110.3	235.9	406.0	592.9	818.1
-2.5°	0.0	6.1	10.7	19.9	30.6	48.9	109.9	235.0	404.6	591.2	815.8
-5°	0.0	6.1	10.7	19.8	30.4	48.6	108.9	232.4	400.6	586.2	808.9
-7.5°	0.0	6.0	10.6	19.7	30.2	48.2	107.1	228.1	393.9	577.7	797.5
-10°	0.0	6.0	10.6	19.5	29.9	47.6	104.6	222.1	384.5	566.0	781.6
-12.5°	0.0	6.0	10.5	19.2	29.6	46.8	101.4	214.4	372.4	550.9	761.2
-15°	0.0	5.9	10.4	19.0	29.1	45.8	97.5	205.0	357.8	532.6	736.4
-17.5°	0.0	5.8	10.3	18.6	28.6	44.7	92.9	194.0	340.5	511.1	707.3
-20°	0.0	5.7	10.1	18.2	28.0	43.4	87.6	181.3	320.8	486.4	673.9



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 CATALOG NUMBER: EPH-08-680R-40-80-1S-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	5.6	10.0	17.8	27.3	41.9	81.7	167.1	298.5	458.7	636.4
-25°	0.0	5.5	9.8	17.3	26.6	40.3	75.1	151.2	273.8	427.9	594.8
-27.5°	0.0	5.4	9.7	16.8	25.7	38.5	67.9	133.9	246.8	395.3	556.7
-30°	0.0	5.3	9.5	16.2	24.8	36.5	60.1	115.1	222.3	362.1	515.8
-32.5°	0.0	5.1	9.3	15.6	23.8	34.4	51.7	102.7	199.0	326.4	471.9
-35°	0.0	5.0	9.0	14.9	22.8	32.2	47.1	92.2	174.1	288.2	425.0
-37.5°	0.0	4.8	8.8	14.2	21.7	30.1	44.2	80.9	147.7	247.7	378.1
-40°	0.0	4.7	8.5	13.4	20.5	28.6	41.2	69.1	119.8	213.1	330.4
-42.5°	0.0	4.5	8.3	12.6	19.4	27.1	38.0	56.6	100.6	180.0	280.5
-45°	0.0	4.3	8.0	11.8	18.3	25.5	34.6	47.4	85.7	145.5	230.3
-47.5°	0.0	4.1	7.7	10.9	17.1	23.8	31.1	43.3	70.1	109.9	190.2
-50°	0.0	3.9	7.4	10.4	15.9	22.0	28.8	39.0	53.9	91.7	148.6
-52.5°	0.0	3.7	7.1	9.9	14.6	20.2	26.6	34.6	45.4	72.8	108.1
-55°	0.0	3.5	6.8	9.4	13.3	18.5	24.3	30.3	40.3	53.4	86.5
-57.5°	0.0	3.3	6.4	8.9	12.0	16.9	22.0	27.6	34.9	44.3	64.3
-60°	0.0	3.0	6.1	8.4	10.7	15.2	19.7	24.8	29.9	38.2	46.8
-62.5°	0.0	2.8	5.6	7.9	10.0	13.4	17.6	22.0	26.7	31.9	39.8
-65°	0.0	2.6	5.2	7.3	9.2	11.6	15.4	19.2	23.4	27.6	32.7
-67.5°	0.0	2.3	4.7	6.8	8.5	10.2	13.2	16.6	20.0	23.8	27.6
-70°	0.0	2.1	4.2	6.2	7.8	9.3	11.0	14.0	17.0	20.0	23.4
-72.5°	0.0	1.8	3.7	5.5	7.0	8.4	9.7	11.4	14.0	16.6	19.2
-75°	0.0	1.6	3.2	4.7	6.2	7.4	8.6	9.7	11.0	13.2	15.4
-77.5°	0.0	1.3	2.6	4.0	5.3	6.4	7.4	8.4	9.3	10.2	11.6
-80°	0.0	1.1	2.1	3.2	4.2	5.3	6.2	7.0	7.8	8.5	9.2
-82.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.7	5.5	6.2	6.8	7.3
-85°	0.0	0.5	1.1	1.6	2.1	2.6	3.2	3.7	4.2	4.7	5.2
-87.5°	0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.8	2.1	2.3	2.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: EPH-08-680R-40-80-1S-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°	2.8	3.0	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.8
85°	5.6	6.1	6.4	6.8	7.1	7.4	7.7	8.0	8.3	8.5	8.8
82.5°	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.8	12.6	13.4	14.2
80°	10.0	10.7	12.0	13.3	14.6	15.9	17.1	18.3	19.4	20.5	21.7
77.5°	13.4	15.2	16.9	18.5	20.2	22.0	23.8	25.5	27.1	28.6	30.1
75°	17.6	19.7	22.0	24.3	26.6	28.8	31.1	34.6	38.0	41.2	44.2
72.5°	22.0	24.8	27.6	30.3	34.6	39.0	43.3	47.4	56.6	69.1	80.9
70°	26.7	29.9	34.9	40.3	45.4	53.9	70.1	85.7	100.6	119.8	147.7
67.5°	31.9	38.2	44.3	53.4	72.8	91.7	109.9	145.5	180.0	213.1	247.7
65°	39.8	46.8	64.3	86.5	108.1	148.6	190.2	230.3	280.5	330.4	378.1
62.5°	47.6	69.8	94.7	128.3	176.9	224.1	282.0	341.8	399.4	459.5	517.4
60°	69.8	97.5	139.6	194.0	250.9	320.8	388.5	458.7	528.0	594.8	671.3
57.5°	94.7	139.6	199.7	266.5	344.2	421.3	502.0	580.1	668.3	755.5	839.6
55°	128.3	194.0	266.5	352.1	438.6	528.2	619.9	721.5	819.7	917.3	1010.8
52.5°	176.9	250.9	344.2	438.6	537.0	641.2	753.7	864.4	973.5	1076.6	1170.2
50°	224.1	320.8	421.3	528.2	641.2	764.5	886.9	1007.6	1119.1	1223.7	1316.8
47.5°	282.0	388.5	502.0	619.9	753.7	886.9	1019.0	1140.5	1256.1	1354.9	1448.7
45°	341.8	458.7	580.1	721.5	864.4	1007.6	1140.5	1267.0	1374.1	1462.7	1495.2
42.5°	399.4	528.0	668.3	819.7	973.5	1119.1	1256.1	1374.1	1465.9	1501.7	1543.1
40°	459.5	594.8	755.5	917.3	1076.6	1223.7	1354.9	1462.7	1501.7	1547.5	1597.0
37.5°	517.4	671.3	839.6	1010.8	1170.2	1316.8	1448.7	1495.2	1543.1	1597.0	1745.3
35°	572.3	744.1	921.7	1096.3	1259.4	1400.5	1482.4	1529.8	1587.9	1731.7	2184.7
32.5°	630.7	812.8	999.4	1174.6	1334.2	1463.4	1510.2	1570.0	1691.3	2000.3	3129.6
30°	689.4	879.5	1070.9	1248.3	1403.9	1487.9	1543.4	1624.7	1810.5	2847.6	3943.5
27.5°	744.1	941.8	1134.2	1310.8	1459.9	1510.8	1576.8	1729.6	2384.2	3619.0	4668.4
25°	794.6	999.4	1192.8	1366.6	1479.6	1537.6	1624.1	1827.5	3084.6	4255.4	4929.2
22.5°	841.6	1052.1	1246.4	1417.7	1497.7	1564.0	1707.9	2350.4	3690.1	4824.0	5061.5
20°	884.7	1096.3	1291.5	1458.2	1514.1	1588.1	1784.2	2899.4	4192.0	4936.9	5151.3
17.5°	923.2	1135.7	1329.2	1471.7	1533.0	1629.4	1915.5	3392.5	4643.8	5038.8	5217.6
15°	956.7	1170.2	1362.3	1483.5	1550.3	1684.7	2315.7	3769.5	4865.0	5118.6	5275.2
12.5°	985.3	1199.5	1390.5	1493.5	1565.2	1732.0	2658.6	4085.1	4936.5	5165.4	5291.1
10°	1008.9	1223.7	1413.7	1501.8	1577.4	1771.1	2942.1	4346.4	4995.8	5204.2	5304.3
7.5°	1027.3	1242.6	1431.9	1508.3	1587.0	1801.8	3164.6	4551.7	5042.4	5234.8	5314.7
5°	1040.4	1256.1	1444.9	1513.0	1593.9	1823.8	3324.5	4699.4	5076.0	5256.9	5322.2
2.5°	1048.4	1264.3	1452.8	1515.8	1598.0	1837.1	3420.9	4788.4	5096.3	5270.2	5326.8
0°	1051.0	1267.0	1455.4	1516.7	1599.4	1841.5	3453.1	4818.2	5103.1	5274.7	5328.3
-2.5°	1048.4	1264.3	1452.8	1515.8	1598.0	1837.1	3420.9	4788.4	5096.3	5270.2	5326.8
-5°	1040.4	1256.1	1444.9	1513.0	1593.9	1823.8	3324.5	4699.4	5076.0	5256.9	5322.2
-7.5°	1027.3	1242.6	1431.9	1508.3	1587.0	1801.8	3164.6	4551.7	5042.4	5234.8	5314.7
-10°	1008.9	1223.7	1413.7	1501.8	1577.4	1771.1	2942.1	4346.4	4995.8	5204.2	5304.3
-12.5°	985.3	1199.5	1390.5	1493.5	1565.2	1732.0	2658.6	4085.1	4936.5	5165.4	5291.1
-15°	956.7	1170.2	1362.3	1483.5	1550.3	1684.7	2315.7	3769.5	4865.0	5118.6	5275.2
-17.5°	923.2	1135.7	1329.2	1471.7	1533.0	1629.4	1915.5	3392.5	4643.8	5038.8	5217.6
-20°	884.7	1096.3	1291.5	1458.2	1514.1	1588.1	1784.2	2899.4	4192.0	4936.9	5151.3



REPORT NUMBER: P1305419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-680R-40-80-1S-HEG-A

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	841.6	1052.1	1246.4	1417.7	1497.7	1564.0	1707.9	2350.4	3690.1	4824.0	5061.5
-25°	794.6	999.4	1192.8	1366.6	1479.6	1537.6	1624.1	1827.5	3084.6	4255.4	4929.2
-27.5°	744.1	941.8	1134.2	1310.8	1459.9	1510.8	1576.8	1729.6	2384.2	3619.0	4668.4
-30°	689.4	879.5	1070.9	1248.3	1403.9	1487.9	1543.4	1624.7	1810.5	2847.6	3943.5
-32.5°	630.7	812.8	999.4	1174.6	1334.2	1463.4	1510.2	1570.0	1691.3	2000.3	3129.6
-35°	572.3	744.1	921.7	1096.3	1259.4	1400.5	1482.4	1529.8	1587.9	1731.7	2184.7
-37.5°	517.4	671.3	839.6	1010.8	1170.2	1316.8	1448.7	1495.2	1543.1	1597.0	1745.3
-40°	459.5	594.8	755.5	917.3	1076.6	1223.7	1354.9	1462.7	1501.7	1547.5	1597.0
-42.5°	399.4	528.0	668.3	819.7	973.5	1119.1	1256.1	1374.1	1465.9	1501.7	1543.1
-45°	341.8	458.7	580.1	721.5	864.4	1007.6	1140.5	1267.0	1374.1	1462.7	1495.2
-47.5°	282.0	388.5	502.0	619.9	753.7	886.9	1019.0	1140.5	1256.1	1354.9	1448.7
-50°	224.1	320.8	421.3	528.2	641.2	764.5	886.9	1007.6	1119.1	1223.7	1316.8
-52.5°	176.9	250.9	344.2	438.6	537.0	641.2	753.7	864.4	973.5	1076.6	1170.2
-55°	128.3	194.0	266.5	352.1	438.6	528.2	619.9	721.5	819.7	917.3	1010.8
-57.5°	94.7	139.6	199.7	266.5	344.2	421.3	502.0	580.1	668.3	755.5	839.6
-60°	69.8	97.5	139.6	194.0	250.9	320.8	388.5	458.7	528.0	594.8	671.3
-62.5°	47.6	69.8	94.7	128.3	176.9	224.1	282.0	341.8	399.4	459.5	517.4
-65°	39.8	46.8	64.3	86.5	108.1	148.6	190.2	230.3	280.5	330.4	378.1
-67.5°	31.9	38.2	44.3	53.4	72.8	91.7	109.9	145.5	180.0	213.1	247.7
-70°	26.7	29.9	34.9	40.3	45.4	53.9	70.1	85.7	100.6	119.8	147.7
-72.5°	22.0	24.8	27.6	30.3	34.6	39.0	43.3	47.4	56.6	69.1	80.9
-75°	17.6	19.7	22.0	24.3	26.6	28.8	31.1	34.6	38.0	41.2	44.2
-77.5°	13.4	15.2	16.9	18.5	20.2	22.0	23.8	25.5	27.1	28.6	30.1
-80°	10.0	10.7	12.0	13.3	14.6	15.9	17.1	18.3	19.4	20.5	21.7
-82.5°	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.8	12.6	13.4	14.2
-85°	5.6	6.1	6.4	6.8	7.1	7.4	7.7	8.0	8.3	8.5	8.8
-87.5°	2.8	3.0	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1305419 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0
85°	9.0	9.3	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.5	10.6
82.5°	14.9	15.6	16.2	16.8	17.3	17.8	18.2	18.6	19.0	19.2	19.5
80°	22.8	23.8	24.8	25.7	26.6	27.3	28.0	28.6	29.1	29.6	29.9
77.5°	32.2	34.4	36.5	38.5	40.3	41.9	43.4	44.7	45.8	46.8	47.6
75°	47.1	51.7	60.1	67.9	75.1	81.7	87.6	92.9	97.5	101.4	104.6
72.5°	92.2	102.7	115.1	133.9	151.2	167.1	181.3	194.0	205.0	214.4	222.1
70°	174.1	199.0	222.3	246.8	273.8	298.5	320.8	340.5	357.8	372.4	384.5
67.5°	288.2	326.4	362.1	395.3	427.9	458.7	486.4	511.1	532.6	550.9	566.0
65°	425.0	471.9	515.8	556.7	594.8	636.4	673.9	707.3	736.4	761.2	781.6
62.5°	572.3	630.7	689.4	744.1	794.6	841.6	884.7	923.2	956.7	985.3	1008.9
60°	744.1	812.8	879.5	941.8	999.4	1052.1	1096.3	1135.7	1170.2	1199.5	1223.7
57.5°	921.7	999.4	1070.9	1134.2	1192.8	1246.4	1291.5	1329.2	1362.3	1390.5	1413.7
55°	1096.3	1174.6	1248.3	1310.8	1366.6	1417.7	1458.2	1471.7	1483.5	1493.5	1501.8
52.5°	1259.4	1334.2	1403.9	1459.9	1479.6	1497.7	1514.1	1533.0	1550.3	1565.2	1577.4
50°	1400.5	1463.4	1487.9	1510.8	1537.6	1564.0	1588.1	1629.4	1684.7	1732.0	1771.1
47.5°	1482.4	1510.2	1543.4	1576.8	1624.1	1707.9	1784.2	1915.5	2315.7	2658.6	2942.1
45°	1529.8	1570.0	1624.7	1729.6	1827.5	2350.4	2899.4	3392.5	3769.5	4085.1	4346.4
42.5°	1587.9	1691.3	1810.5	2384.2	3084.6	3690.1	4192.0	4643.8	4865.0	4936.5	4995.8
40°	1731.7	2000.3	2847.6	3619.0	4255.4	4824.0	4936.9	5038.8	5118.6	5165.4	5204.2
37.5°	2184.7	3129.6	3943.5	4668.4	4929.2	5061.5	5151.3	5217.6	5275.2	5291.1	5304.3
35°	3224.3	4107.6	4839.5	5000.7	5133.1	5218.6	5281.8	5304.2	5324.0	5267.1	5199.3
32.5°	4107.6	4857.1	5037.0	5166.6	5264.5	5300.1	5326.6	5222.3	5120.7	4992.4	4849.8
30°	4839.5	5037.0	5177.9	5278.8	5311.4	5263.6	5129.2	4942.2	4729.8	4577.2	4537.5
27.5°	5000.7	5166.6	5278.8	5315.1	5226.7	5068.9	4790.7	4574.8	4516.0	4464.5	4570.1
25°	5133.1	5264.5	5311.4	5226.7	5031.7	4713.5	4544.1	4473.7	4597.2	4734.8	4992.2
22.5°	5218.6	5300.1	5263.6	5068.9	4713.5	4533.8	4494.1	4680.0	4986.4	5388.7	6785.7
20°	5281.8	5326.6	5129.2	4790.7	4544.1	4494.1	4708.0	5143.9	6040.9	9454.7	13494.3
17.5°	5304.2	5222.3	4942.2	4574.8	4473.7	4680.0	5143.9	6693.4	10838.4	19824.4	29304.2
15°	5324.0	5120.7	4729.8	4516.0	4597.2	4986.4	6040.9	10838.4	21995.6	35875.8	51461.1
12.5°	5267.1	4992.4	4577.2	4464.5	4734.8	5388.7	9454.7	19824.4	35875.8	55246.5	88057.2
10°	5199.3	4849.8	4537.5	4570.1	4992.2	6785.7	13494.3	29304.2	51461.1	88057.2	132603.7
7.5°	5145.7	4736.8	4505.9	4655.1	5242.8	8937.7	20441.5	40544.6	72158.0	120347.4	186195.8
5°	5106.9	4654.8	4482.9	4717.1	5426.5	10524.1	25602.9	49181.8	91440.2	152940.4	240772.7
2.5°	5083.4	4605.1	4469.0	4754.9	5538.7	11497.4	28787.7	54555.3	103580.8	176439.7	281603.3
0°	5075.5	4588.4	4464.3	4767.6	5576.5	11825.6	29865.0	56381.0	107734.0	185356.3	296188.0
-2.5°	5083.4	4605.1	4469.0	4754.9	5538.7	11497.4	28787.7	54555.3	103580.8	176439.7	281603.3
-5°	5106.9	4654.8	4482.9	4717.1	5426.5	10524.1	25602.9	49181.8	91440.2	152940.4	240772.7
-7.5°	5145.7	4736.8	4505.9	4655.1	5242.8	8937.7	20441.5	40544.6	72158.0	120347.4	186195.8
-10°	5199.3	4849.8	4537.5	4570.1	4992.2	6785.7	13494.3	29304.2	51461.1	88057.2	132603.7
-12.5°	5267.1	4992.4	4577.2	4464.5	4734.8	5388.7	9454.7	19824.4	35875.8	55246.5	88057.2
-15°	5324.0	5120.7	4729.8	4516.0	4597.2	4986.4	6040.9	10838.4	21995.6	35875.8	51461.1
-17.5°	5304.2	5222.3	4942.2	4574.8	4473.7	4680.0	5143.9	6693.4	10838.4	19824.4	29304.2
-20°	5281.8	5326.6	5129.2	4790.7	4544.1	4494.1	4708.0	5143.9	6040.9	9454.7	13494.3



REPORT NUMBER: P1305419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-680R-40-80-1S-HEG-A

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	5218.6	5300.1	5263.6	5068.9	4713.5	4533.8	4494.1	4680.0	4986.4	5388.7	6785.7
-25°	5133.1	5264.5	5311.4	5226.7	5031.7	4713.5	4544.1	4473.7	4597.2	4734.8	4992.2
-27.5°	5000.7	5166.6	5278.8	5315.1	5226.7	5068.9	4790.7	4574.8	4516.0	4464.5	4570.1
-30°	4839.5	5037.0	5177.9	5278.8	5311.4	5263.6	5129.2	4942.2	4729.8	4577.2	4537.5
-32.5°	4107.6	4857.1	5037.0	5166.6	5264.5	5300.1	5326.6	5222.3	5120.7	4992.4	4849.8
-35°	3224.3	4107.6	4839.5	5000.7	5133.1	5218.6	5281.8	5304.2	5324.0	5267.1	5199.3
-37.5°	2184.7	3129.6	3943.5	4668.4	4929.2	5061.5	5151.3	5217.6	5275.2	5291.1	5304.3
-40°	1731.7	2000.3	2847.6	3619.0	4255.4	4824.0	4936.9	5038.8	5118.6	5165.4	5204.2
-42.5°	1587.9	1691.3	1810.5	2384.2	3084.6	3690.1	4192.0	4643.8	4865.0	4936.5	4995.8
-45°	1529.8	1570.0	1624.7	1729.6	1827.5	2350.4	2899.4	3392.5	3769.5	4085.1	4346.4
-47.5°	1482.4	1510.2	1543.4	1576.8	1624.1	1707.9	1784.2	1915.5	2315.7	2658.6	2942.1
-50°	1400.5	1463.4	1487.9	1510.8	1537.6	1564.0	1588.1	1629.4	1684.7	1732.0	1771.1
-52.5°	1259.4	1334.2	1403.9	1459.9	1479.6	1497.7	1514.1	1533.0	1550.3	1565.2	1577.4
-55°	1096.3	1174.6	1248.3	1310.8	1366.6	1417.7	1458.2	1471.7	1483.5	1493.5	1501.8
-57.5°	921.7	999.4	1070.9	1134.2	1192.8	1246.4	1291.5	1329.2	1362.3	1390.5	1413.7
-60°	744.1	812.8	879.5	941.8	999.4	1052.1	1096.3	1135.7	1170.2	1199.5	1223.7
-62.5°	572.3	630.7	689.4	744.1	794.6	841.6	884.7	923.2	956.7	985.3	1008.9
-65°	425.0	471.9	515.8	556.7	594.8	636.4	673.9	707.3	736.4	761.2	781.6
-67.5°	288.2	326.4	362.1	395.3	427.9	458.7	486.4	511.1	532.6	550.9	566.0
-70°	174.1	199.0	222.3	246.8	273.8	298.5	320.8	340.5	357.8	372.4	384.5
-72.5°	92.2	102.7	115.1	133.9	151.2	167.1	181.3	194.0	205.0	214.4	222.1
-75°	47.1	51.7	60.1	67.9	75.1	81.7	87.6	92.9	97.5	101.4	104.6
-77.5°	32.2	34.4	36.5	38.5	40.3	41.9	43.4	44.7	45.8	46.8	47.6
-80°	22.8	23.8	24.8	25.7	26.6	27.3	28.0	28.6	29.1	29.6	29.9
-82.5°	14.9	15.6	16.2	16.8	17.3	17.8	18.2	18.6	19.0	19.2	19.5
-85°	9.0	9.3	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.5	10.6
-87.5°	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1305419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-680R-40-80-1S-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°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	6.0	5.9	5.8
85°	10.6	10.7	10.7	10.7	10.7	10.7	10.6	10.6	10.5	10.4	10.3
82.5°	19.7	19.8	19.9	19.9	19.9	19.8	19.7	19.5	19.2	19.0	18.6
80°	30.2	30.4	30.6	30.6	30.6	30.4	30.2	29.9	29.6	29.1	28.6
77.5°	48.2	48.6	48.9	49.0	48.9	48.6	48.2	47.6	46.8	45.8	44.7
75°	107.1	108.9	109.9	110.3	109.9	108.9	107.1	104.6	101.4	97.5	92.9
72.5°	228.1	232.4	235.0	235.9	235.0	232.4	228.1	222.1	214.4	205.0	194.0
70°	393.9	400.6	404.6	406.0	404.6	400.6	393.9	384.5	372.4	357.8	340.5
67.5°	577.7	586.2	591.2	592.9	591.2	586.2	577.7	566.0	550.9	532.6	511.1
65°	797.5	808.9	815.8	818.1	815.8	808.9	797.5	781.6	761.2	736.4	707.3
62.5°	1027.3	1040.4	1048.4	1051.0	1048.4	1040.4	1027.3	1008.9	985.3	956.7	923.2
60°	1242.6	1256.1	1264.3	1267.0	1264.3	1256.1	1242.6	1223.7	1199.5	1170.2	1135.7
57.5°	1431.9	1444.9	1452.8	1455.4	1452.8	1444.9	1431.9	1413.7	1390.5	1362.3	1329.2
55°	1508.3	1513.0	1515.8	1516.7	1515.8	1513.0	1508.3	1501.8	1493.5	1483.5	1471.7
52.5°	1587.0	1593.9	1598.0	1599.4	1598.0	1593.9	1587.0	1577.4	1565.2	1550.3	1533.0
50°	1801.8	1823.8	1837.1	1841.5	1837.1	1823.8	1801.8	1771.1	1732.0	1684.7	1629.4
47.5°	3164.6	3324.5	3420.9	3453.1	3420.9	3324.5	3164.6	2942.1	2658.6	2315.7	1915.5
45°	4551.7	4699.4	4788.4	4818.2	4788.4	4699.4	4551.7	4346.4	4085.1	3769.5	3392.5
42.5°	5042.4	5076.0	5096.3	5103.1	5096.3	5076.0	5042.4	4995.8	4936.5	4865.0	4643.8
40°	5234.8	5256.9	5270.2	5274.7	5270.2	5256.9	5234.8	5204.2	5165.4	5118.6	5038.8
37.5°	5314.7	5322.2	5326.8	5328.3	5326.8	5322.2	5314.7	5304.3	5291.1	5275.2	5217.6
35°	5145.7	5106.9	5083.4	5075.5	5083.4	5106.9	5145.7	5199.3	5267.1	5324.0	5304.2
32.5°	4736.8	4654.8	4605.1	4588.4	4605.1	4654.8	4736.8	4849.8	4992.4	5120.7	5222.3
30°	4505.9	4482.9	4469.0	4464.3	4469.0	4482.9	4505.9	4537.5	4577.2	4729.8	4942.2
27.5°	4655.1	4717.1	4754.9	4767.6	4754.9	4717.1	4655.1	4570.1	4464.5	4516.0	4574.8
25°	5242.8	5426.5	5538.7	5576.5	5538.7	5426.5	5242.8	4992.2	4734.8	4597.2	4473.7
22.5°	8937.7	10524.1	11497.4	11825.6	11497.4	10524.1	8937.7	6785.7	5388.7	4986.4	4680.0
20°	20441.5	25602.9	28787.7	29865.0	28787.7	25602.9	20441.5	13494.3	9454.7	6040.9	5143.9
17.5°	40544.6	49181.8	54555.3	56381.0	54555.3	49181.8	40544.6	29304.2	19824.4	10838.4	6693.4
15°	72158.0	91440.2	103580.8	107734.0	103580.8	91440.2	72158.0	51461.1	35875.8	21995.6	10838.4
12.5°	120347.4	152940.4	176439.7	185356.3	176439.7	152940.4	120347.4	88057.2	55246.5	35875.8	19824.4
10°	186195.8	240772.7	281603.3	296188.0	281603.3	240772.7	186195.8	132603.7	88057.2	51461.1	29304.2
7.5°	267877.7	341231.1	392773.3	410322.0	392773.3	341231.1	267877.7	186195.8	120347.4	72158.0	40544.6
5°	341231.1	429175.3	487997.8	509757.9	487997.8	429175.3	341231.1	240772.7	152940.4	91440.2	49181.8
2.5°	392773.3	487997.8	557795.3	590890.8	557795.3	487997.8	392773.3	281603.3	176439.7	103580.8	54555.3
0°	410322.0	509757.9	590890.8	639756.5	590890.8	509757.9	410322.0	296188.0	185356.3	107734.0	56381.0
-2.5°	392773.3	487997.8	557795.3	590890.8	557795.3	487997.8	392773.3	281603.3	176439.7	103580.8	54555.3
-5°	341231.1	429175.3	487997.8	509757.9	487997.8	429175.3	341231.1	240772.7	152940.4	91440.2	49181.8
-7.5°	267877.7	341231.1	392773.3	410322.0	392773.3	341231.1	267877.7	186195.8	120347.4	72158.0	40544.6
-10°	186195.8	240772.7	281603.3	296188.0	281603.3	240772.7	186195.8	132603.7	88057.2	51461.1	29304.2
-12.5°	120347.4	152940.4	176439.7	185356.3	176439.7	152940.4	120347.4	88057.2	55246.5	35875.8	19824.4
-15°	72158.0	91440.2	103580.8	107734.0	103580.8	91440.2	72158.0	51461.1	35875.8	21995.6	10838.4
-17.5°	40544.6	49181.8	54555.3	56381.0	54555.3	49181.8	40544.6	29304.2	19824.4	10838.4	6693.4
-20°	20441.5	25602.9	28787.7	29865.0	28787.7	25602.9	20441.5	13494.3	9454.7	6040.9	5143.9



REPORT NUMBER: P1305419 (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°	8937.7	10524.1	11497.4	11825.6	11497.4	10524.1	8937.7	6785.7	5388.7	4986.4	4680.0
-25°	5242.8	5426.5	5538.7	5576.5	5538.7	5426.5	5242.8	4992.2	4734.8	4597.2	4473.7
-27.5°	4655.1	4717.1	4754.9	4767.6	4754.9	4717.1	4655.1	4570.1	4464.5	4516.0	4574.8
-30°	4505.9	4482.9	4469.0	4464.3	4469.0	4482.9	4505.9	4537.5	4577.2	4729.8	4942.2
-32.5°	4736.8	4654.8	4605.1	4588.4	4605.1	4654.8	4736.8	4849.8	4992.4	5120.7	5222.3
-35°	5145.7	5106.9	5083.4	5075.5	5083.4	5106.9	5145.7	5199.3	5267.1	5324.0	5304.2
-37.5°	5314.7	5322.2	5326.8	5328.3	5326.8	5322.2	5314.7	5304.3	5291.1	5275.2	5217.6
-40°	5234.8	5256.9	5270.2	5274.7	5270.2	5256.9	5234.8	5204.2	5165.4	5118.6	5038.8
-42.5°	5042.4	5076.0	5096.3	5103.1	5096.3	5076.0	5042.4	4995.8	4936.5	4865.0	4643.8
-45°	4551.7	4699.4	4788.4	4818.2	4788.4	4699.4	4551.7	4346.4	4085.1	3769.5	3392.5
-47.5°	3164.6	3324.5	3420.9	3453.1	3420.9	3324.5	3164.6	2942.1	2658.6	2315.7	1915.5
-50°	1801.8	1823.8	1837.1	1841.5	1837.1	1823.8	1801.8	1771.1	1732.0	1684.7	1629.4
-52.5°	1587.0	1593.9	1598.0	1599.4	1598.0	1593.9	1587.0	1577.4	1565.2	1550.3	1533.0
-55°	1508.3	1513.0	1515.8	1516.7	1515.8	1513.0	1508.3	1501.8	1493.5	1483.5	1471.7
-57.5°	1431.9	1444.9	1452.8	1455.4	1452.8	1444.9	1431.9	1413.7	1390.5	1362.3	1329.2
-60°	1242.6	1256.1	1264.3	1267.0	1264.3	1256.1	1242.6	1223.7	1199.5	1170.2	1135.7
-62.5°	1027.3	1040.4	1048.4	1051.0	1048.4	1040.4	1027.3	1008.9	985.3	956.7	923.2
-65°	797.5	808.9	815.8	818.1	815.8	808.9	797.5	781.6	761.2	736.4	707.3
-67.5°	577.7	586.2	591.2	592.9	591.2	586.2	577.7	566.0	550.9	532.6	511.1
-70°	393.9	400.6	404.6	406.0	404.6	400.6	393.9	384.5	372.4	357.8	340.5
-72.5°	228.1	232.4	235.0	235.9	235.0	232.4	228.1	222.1	214.4	205.0	194.0
-75°	107.1	108.9	109.9	110.3	109.9	108.9	107.1	104.6	101.4	97.5	92.9
-77.5°	48.2	48.6	48.9	49.0	48.9	48.6	48.2	47.6	46.8	45.8	44.7
-80°	30.2	30.4	30.6	30.6	30.6	30.4	30.2	29.9	29.6	29.1	28.6
-82.5°	19.7	19.8	19.9	19.9	19.9	19.8	19.7	19.5	19.2	19.0	18.6
-85°	10.6	10.7	10.7	10.7	10.7	10.7	10.6	10.6	10.5	10.4	10.3
-87.5°	6.0	6.1	6.1	6.1	6.1	6.1	6.0	6.0	6.0	5.9	5.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	5.6	5.5	5.4	5.3	5.1	5.0	4.8	4.7	4.5	4.3
85°	10.1	10.0	9.8	9.7	9.5	9.3	9.0	8.8	8.5	8.3	8.0
82.5°	18.2	17.8	17.3	16.8	16.2	15.6	14.9	14.2	13.4	12.6	11.8
80°	28.0	27.3	26.6	25.7	24.8	23.8	22.8	21.7	20.5	19.4	18.3
77.5°	43.4	41.9	40.3	38.5	36.5	34.4	32.2	30.1	28.6	27.1	25.5
75°	87.6	81.7	75.1	67.9	60.1	51.7	47.1	44.2	41.2	38.0	34.6
72.5°	181.3	167.1	151.2	133.9	115.1	102.7	92.2	80.9	69.1	56.6	47.4
70°	320.8	298.5	273.8	246.8	222.3	199.0	174.1	147.7	119.8	100.6	85.7
67.5°	486.4	458.7	427.9	395.3	362.1	326.4	288.2	247.7	213.1	180.0	145.5
65°	673.9	636.4	594.8	556.7	515.8	471.9	425.0	378.1	330.4	280.5	230.3
62.5°	884.7	841.6	794.6	744.1	689.4	630.7	572.3	517.4	459.5	399.4	341.8
60°	1096.3	1052.1	999.4	941.8	879.5	812.8	744.1	671.3	594.8	528.0	458.7
57.5°	1291.5	1246.4	1192.8	1134.2	1070.9	999.4	921.7	839.6	755.5	668.3	580.1
55°	1458.2	1417.7	1366.6	1310.8	1248.3	1174.6	1096.3	1010.8	917.3	819.7	721.5
52.5°	1514.1	1497.7	1479.6	1459.9	1403.9	1334.2	1259.4	1170.2	1076.6	973.5	864.4
50°	1588.1	1564.0	1537.6	1510.8	1487.9	1463.4	1400.5	1316.8	1223.7	1119.1	1007.6
47.5°	1784.2	1707.9	1624.1	1576.8	1543.4	1510.2	1482.4	1448.7	1354.9	1256.1	1140.5
45°	2899.4	2350.4	1827.5	1729.6	1624.7	1570.0	1529.8	1495.2	1462.7	1374.1	1267.0
42.5°	4192.0	3690.1	3084.6	2384.2	1810.5	1691.3	1587.9	1543.1	1501.7	1465.9	1374.1
40°	4936.9	4824.0	4255.4	3619.0	2847.6	2000.3	1731.7	1597.0	1547.5	1501.7	1462.7
37.5°	5151.3	5061.5	4929.2	4668.4	3943.5	3129.6	2184.7	1745.3	1597.0	1543.1	1495.2
35°	5281.8	5218.6	5133.1	5000.7	4839.5	4107.6	3224.3	2184.7	1731.7	1587.9	1529.8
32.5°	5326.6	5300.1	5264.5	5166.6	5037.0	4857.1	4107.6	3129.6	2000.3	1691.3	1570.0
30°	5129.2	5263.6	5311.4	5278.8	5177.9	5037.0	4839.5	3943.5	2847.6	1810.5	1624.7
27.5°	4790.7	5068.9	5226.7	5315.1	5278.8	5166.6	5000.7	4668.4	3619.0	2384.2	1729.6
25°	4544.1	4713.5	5031.7	5226.7	5311.4	5264.5	5133.1	4929.2	4255.4	3084.6	1827.5
22.5°	4494.1	4533.8	4713.5	5068.9	5263.6	5300.1	5218.6	5061.5	4824.0	3690.1	2350.4
20°	4708.0	4494.1	4544.1	4790.7	5129.2	5326.6	5281.8	5151.3	4936.9	4192.0	2899.4
17.5°	5143.9	4680.0	4473.7	4574.8	4942.2	5222.3	5304.2	5217.6	5038.8	4643.8	3392.5
15°	6040.9	4986.4	4597.2	4516.0	4729.8	5120.7	5324.0	5275.2	5118.6	4865.0	3769.5
12.5°	9454.7	5388.7	4734.8	4464.5	4577.2	4992.4	5267.1	5291.1	5165.4	4936.5	4085.1
10°	13494.3	6785.7	4992.2	4570.1	4537.5	4849.8	5199.3	5304.3	5204.2	4995.8	4346.4
7.5°	20441.5	8937.7	5242.8	4655.1	4505.9	4736.8	5145.7	5314.7	5234.8	5042.4	4551.7
5°	25602.9	10524.1	5426.5	4717.1	4482.9	4654.8	5106.9	5322.2	5256.9	5076.0	4699.4
2.5°	28787.7	11497.4	5538.7	4754.9	4469.0	4605.1	5083.4	5326.8	5270.2	5096.3	4788.4
0°	29865.0	11825.6	5576.5	4767.6	4464.3	4588.4	5075.5	5328.3	5274.7	5103.1	4818.2
-2.5°	28787.7	11497.4	5538.7	4754.9	4469.0	4605.1	5083.4	5326.8	5270.2	5096.3	4788.4
-5°	25602.9	10524.1	5426.5	4717.1	4482.9	4654.8	5106.9	5322.2	5256.9	5076.0	4699.4
-7.5°	20441.5	8937.7	5242.8	4655.1	4505.9	4736.8	5145.7	5314.7	5234.8	5042.4	4551.7
-10°	13494.3	6785.7	4992.2	4570.1	4537.5	4849.8	5199.3	5304.3	5204.2	4995.8	4346.4
-12.5°	9454.7	5388.7	4734.8	4464.5	4577.2	4992.4	5267.1	5291.1	5165.4	4936.5	4085.1
-15°	6040.9	4986.4	4597.2	4516.0	4729.8	5120.7	5324.0	5275.2	5118.6	4865.0	3769.5
-17.5°	5143.9	4680.0	4473.7	4574.8	4942.2	5222.3	5304.2	5217.6	5038.8	4643.8	3392.5
-20°	4708.0	4494.1	4544.1	4790.7	5129.2	5326.6	5281.8	5151.3	4936.9	4192.0	2899.4



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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°	4494.1	4533.8	4713.5	5068.9	5263.6	5300.1	5218.6	5061.5	4824.0	3690.1	2350.4
-25°	4544.1	4713.5	5031.7	5226.7	5311.4	5264.5	5133.1	4929.2	4255.4	3084.6	1827.5
-27.5°	4790.7	5068.9	5226.7	5315.1	5278.8	5166.6	5000.7	4668.4	3619.0	2384.2	1729.6
-30°	5129.2	5263.6	5311.4	5278.8	5177.9	5037.0	4839.5	3943.5	2847.6	1810.5	1624.7
-32.5°	5326.6	5300.1	5264.5	5166.6	5037.0	4857.1	4107.6	3129.6	2000.3	1691.3	1570.0
-35°	5281.8	5218.6	5133.1	5000.7	4839.5	4107.6	3224.3	2184.7	1731.7	1587.9	1529.8
-37.5°	5151.3	5061.5	4929.2	4668.4	3943.5	3129.6	2184.7	1745.3	1597.0	1543.1	1495.2
-40°	4936.9	4824.0	4255.4	3619.0	2847.6	2000.3	1731.7	1597.0	1547.5	1501.7	1462.7
-42.5°	4192.0	3690.1	3084.6	2384.2	1810.5	1691.3	1587.9	1543.1	1501.7	1465.9	1374.1
-45°	2899.4	2350.4	1827.5	1729.6	1624.7	1570.0	1529.8	1495.2	1462.7	1374.1	1267.0
-47.5°	1784.2	1707.9	1624.1	1576.8	1543.4	1510.2	1482.4	1448.7	1354.9	1256.1	1140.5
-50°	1588.1	1564.0	1537.6	1510.8	1487.9	1463.4	1400.5	1316.8	1223.7	1119.1	1007.6
-52.5°	1514.1	1497.7	1479.6	1459.9	1403.9	1334.2	1259.4	1170.2	1076.6	973.5	864.4
-55°	1458.2	1417.7	1366.6	1310.8	1248.3	1174.6	1096.3	1010.8	917.3	819.7	721.5
-57.5°	1291.5	1246.4	1192.8	1134.2	1070.9	999.4	921.7	839.6	755.5	668.3	580.1
-60°	1096.3	1052.1	999.4	941.8	879.5	812.8	744.1	671.3	594.8	528.0	458.7
-62.5°	884.7	841.6	794.6	744.1	689.4	630.7	572.3	517.4	459.5	399.4	341.8
-65°	673.9	636.4	594.8	556.7	515.8	471.9	425.0	378.1	330.4	280.5	230.3
-67.5°	486.4	458.7	427.9	395.3	362.1	326.4	288.2	247.7	213.1	180.0	145.5
-70°	320.8	298.5	273.8	246.8	222.3	199.0	174.1	147.7	119.8	100.6	85.7
-72.5°	181.3	167.1	151.2	133.9	115.1	102.7	92.2	80.9	69.1	56.6	47.4
-75°	87.6	81.7	75.1	67.9	60.1	51.7	47.1	44.2	41.2	38.0	34.6
-77.5°	43.4	41.9	40.3	38.5	36.5	34.4	32.2	30.1	28.6	27.1	25.5
-80°	28.0	27.3	26.6	25.7	24.8	23.8	22.8	21.7	20.5	19.4	18.3
-82.5°	18.2	17.8	17.3	16.8	16.2	15.6	14.9	14.2	13.4	12.6	11.8
-85°	10.1	10.0	9.8	9.7	9.5	9.3	9.0	8.8	8.5	8.3	8.0
-87.5°	5.7	5.6	5.5	5.4	5.3	5.1	5.0	4.8	4.7	4.5	4.3
-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: P1305419 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-680R-40-80-1S-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°	4.1	3.9	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	1.8
85°	7.7	7.4	7.1	6.8	6.4	6.1	5.6	5.2	4.7	4.2	3.7
82.5°	10.9	10.4	9.9	9.4	8.9	8.4	7.9	7.3	6.8	6.2	5.5
80°	17.1	15.9	14.6	13.3	12.0	10.7	10.0	9.2	8.5	7.8	7.0
77.5°	23.8	22.0	20.2	18.5	16.9	15.2	13.4	11.6	10.2	9.3	8.4
75°	31.1	28.8	26.6	24.3	22.0	19.7	17.6	15.4	13.2	11.0	9.7
72.5°	43.3	39.0	34.6	30.3	27.6	24.8	22.0	19.2	16.6	14.0	11.4
70°	70.1	53.9	45.4	40.3	34.9	29.9	26.7	23.4	20.0	17.0	14.0
67.5°	109.9	91.7	72.8	53.4	44.3	38.2	31.9	27.6	23.8	20.0	16.6
65°	190.2	148.6	108.1	86.5	64.3	46.8	39.8	32.7	27.6	23.4	19.2
62.5°	282.0	224.1	176.9	128.3	94.7	69.8	47.6	39.8	31.9	26.7	22.0
60°	388.5	320.8	250.9	194.0	139.6	97.5	69.8	46.8	38.2	29.9	24.8
57.5°	502.0	421.3	344.2	266.5	199.7	139.6	94.7	64.3	44.3	34.9	27.6
55°	619.9	528.2	438.6	352.1	266.5	194.0	128.3	86.5	53.4	40.3	30.3
52.5°	753.7	641.2	537.0	438.6	344.2	250.9	176.9	108.1	72.8	45.4	34.6
50°	886.9	764.5	641.2	528.2	421.3	320.8	224.1	148.6	91.7	53.9	39.0
47.5°	1019.0	886.9	753.7	619.9	502.0	388.5	282.0	190.2	109.9	70.1	43.3
45°	1140.5	1007.6	864.4	721.5	580.1	458.7	341.8	230.3	145.5	85.7	47.4
42.5°	1256.1	1119.1	973.5	819.7	668.3	528.0	399.4	280.5	180.0	100.6	56.6
40°	1354.9	1223.7	1076.6	917.3	755.5	594.8	459.5	330.4	213.1	119.8	69.1
37.5°	1448.7	1316.8	1170.2	1010.8	839.6	671.3	517.4	378.1	247.7	147.7	80.9
35°	1482.4	1400.5	1259.4	1096.3	921.7	744.1	572.3	425.0	288.2	174.1	92.2
32.5°	1510.2	1463.4	1334.2	1174.6	999.4	812.8	630.7	471.9	326.4	199.0	102.7
30°	1543.4	1487.9	1403.9	1248.3	1070.9	879.5	689.4	515.8	362.1	222.3	115.1
27.5°	1576.8	1510.8	1459.9	1310.8	1134.2	941.8	744.1	556.7	395.3	246.8	133.9
25°	1624.1	1537.6	1479.6	1366.6	1192.8	999.4	794.6	594.8	427.9	273.8	151.2
22.5°	1707.9	1564.0	1497.7	1417.7	1246.4	1052.1	841.6	636.4	458.7	298.5	167.1
20°	1784.2	1588.1	1514.1	1458.2	1291.5	1096.3	884.7	673.9	486.4	320.8	181.3
17.5°	1915.5	1629.4	1533.0	1471.7	1329.2	1135.7	923.2	707.3	511.1	340.5	194.0
15°	2315.7	1684.7	1550.3	1483.5	1362.3	1170.2	956.7	736.4	532.6	357.8	205.0
12.5°	2658.6	1732.0	1565.2	1493.5	1390.5	1199.5	985.3	761.2	550.9	372.4	214.4
10°	2942.1	1771.1	1577.4	1501.8	1413.7	1223.7	1008.9	781.6	566.0	384.5	222.1
7.5°	3164.6	1801.8	1587.0	1508.3	1431.9	1242.6	1027.3	797.5	577.7	393.9	228.1
5°	3324.5	1823.8	1593.9	1513.0	1444.9	1256.1	1040.4	808.9	586.2	400.6	232.4
2.5°	3420.9	1837.1	1598.0	1515.8	1452.8	1264.3	1048.4	815.8	591.2	404.6	235.0
0°	3453.1	1841.5	1599.4	1516.7	1455.4	1267.0	1051.0	818.1	592.9	406.0	235.9
-2.5°	3420.9	1837.1	1598.0	1515.8	1452.8	1264.3	1048.4	815.8	591.2	404.6	235.0
-5°	3324.5	1823.8	1593.9	1513.0	1444.9	1256.1	1040.4	808.9	586.2	400.6	232.4
-7.5°	3164.6	1801.8	1587.0	1508.3	1431.9	1242.6	1027.3	797.5	577.7	393.9	228.1
-10°	2942.1	1771.1	1577.4	1501.8	1413.7	1223.7	1008.9	781.6	566.0	384.5	222.1
-12.5°	2658.6	1732.0	1565.2	1493.5	1390.5	1199.5	985.3	761.2	550.9	372.4	214.4
-15°	2315.7	1684.7	1550.3	1483.5	1362.3	1170.2	956.7	736.4	532.6	357.8	205.0
-17.5°	1915.5	1629.4	1533.0	1471.7	1329.2	1135.7	923.2	707.3	511.1	340.5	194.0
-20°	1784.2	1588.1	1514.1	1458.2	1291.5	1096.3	884.7	673.9	486.4	320.8	181.3



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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°	1707.9	1564.0	1497.7	1417.7	1246.4	1052.1	841.6	636.4	458.7	298.5	167.1
-25°	1624.1	1537.6	1479.6	1366.6	1192.8	999.4	794.6	594.8	427.9	273.8	151.2
-27.5°	1576.8	1510.8	1459.9	1310.8	1134.2	941.8	744.1	556.7	395.3	246.8	133.9
-30°	1543.4	1487.9	1403.9	1248.3	1070.9	879.5	689.4	515.8	362.1	222.3	115.1
-32.5°	1510.2	1463.4	1334.2	1174.6	999.4	812.8	630.7	471.9	326.4	199.0	102.7
-35°	1482.4	1400.5	1259.4	1096.3	921.7	744.1	572.3	425.0	288.2	174.1	92.2
-37.5°	1448.7	1316.8	1170.2	1010.8	839.6	671.3	517.4	378.1	247.7	147.7	80.9
-40°	1354.9	1223.7	1076.6	917.3	755.5	594.8	459.5	330.4	213.1	119.8	69.1
-42.5°	1256.1	1119.1	973.5	819.7	668.3	528.0	399.4	280.5	180.0	100.6	56.6
-45°	1140.5	1007.6	864.4	721.5	580.1	458.7	341.8	230.3	145.5	85.7	47.4
-47.5°	1019.0	886.9	753.7	619.9	502.0	388.5	282.0	190.2	109.9	70.1	43.3
-50°	886.9	764.5	641.2	528.2	421.3	320.8	224.1	148.6	91.7	53.9	39.0
-52.5°	753.7	641.2	537.0	438.6	344.2	250.9	176.9	108.1	72.8	45.4	34.6
-55°	619.9	528.2	438.6	352.1	266.5	194.0	128.3	86.5	53.4	40.3	30.3
-57.5°	502.0	421.3	344.2	266.5	199.7	139.6	94.7	64.3	44.3	34.9	27.6
-60°	388.5	320.8	250.9	194.0	139.6	97.5	69.8	46.8	38.2	29.9	24.8
-62.5°	282.0	224.1	176.9	128.3	94.7	69.8	47.6	39.8	31.9	26.7	22.0
-65°	190.2	148.6	108.1	86.5	64.3	46.8	39.8	32.7	27.6	23.4	19.2
-67.5°	109.9	91.7	72.8	53.4	44.3	38.2	31.9	27.6	23.8	20.0	16.6
-70°	70.1	53.9	45.4	40.3	34.9	29.9	26.7	23.4	20.0	17.0	14.0
-72.5°	43.3	39.0	34.6	30.3	27.6	24.8	22.0	19.2	16.6	14.0	11.4
-75°	31.1	28.8	26.6	24.3	22.0	19.7	17.6	15.4	13.2	11.0	9.7
-77.5°	23.8	22.0	20.2	18.5	16.9	15.2	13.4	11.6	10.2	9.3	8.4
-80°	17.1	15.9	14.6	13.3	12.0	10.7	10.0	9.2	8.5	7.8	7.0
-82.5°	10.9	10.4	9.9	9.4	8.9	8.4	7.9	7.3	6.8	6.2	5.5
-85°	7.7	7.4	7.1	6.8	6.4	6.1	5.6	5.2	4.7	4.2	3.7
-87.5°	4.1	3.9	3.7	3.5	3.3	3.0	2.8	2.6	2.3	2.1	1.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.3	1.1	0.8	0.5	0.3	0.0
85°	3.2	2.6	2.1	1.6	1.1	0.5	0.0
82.5°	4.7	4.0	3.2	2.4	1.6	0.8	0.0
80°	6.2	5.3	4.2	3.2	2.1	1.1	0.0
77.5°	7.4	6.4	5.3	4.0	2.6	1.3	0.0
75°	8.6	7.4	6.2	4.7	3.2	1.6	0.0
72.5°	9.7	8.4	7.0	5.5	3.7	1.8	0.0
70°	11.0	9.3	7.8	6.2	4.2	2.1	0.0
67.5°	13.2	10.2	8.5	6.8	4.7	2.3	0.0
65°	15.4	11.6	9.2	7.3	5.2	2.6	0.0
62.5°	17.6	13.4	10.0	7.9	5.6	2.8	0.0
60°	19.7	15.2	10.7	8.4	6.1	3.0	0.0
57.5°	22.0	16.9	12.0	8.9	6.4	3.3	0.0
55°	24.3	18.5	13.3	9.4	6.8	3.5	0.0
52.5°	26.6	20.2	14.6	9.9	7.1	3.7	0.0
50°	28.8	22.0	15.9	10.4	7.4	3.9	0.0
47.5°	31.1	23.8	17.1	10.9	7.7	4.1	0.0
45°	34.6	25.5	18.3	11.8	8.0	4.3	0.0
42.5°	38.0	27.1	19.4	12.6	8.3	4.5	0.0
40°	41.2	28.6	20.5	13.4	8.5	4.7	0.0
37.5°	44.2	30.1	21.7	14.2	8.8	4.8	0.0
35°	47.1	32.2	22.8	14.9	9.0	5.0	0.0
32.5°	51.7	34.4	23.8	15.6	9.3	5.1	0.0
30°	60.1	36.5	24.8	16.2	9.5	5.3	0.0
27.5°	67.9	38.5	25.7	16.8	9.7	5.4	0.0
25°	75.1	40.3	26.6	17.3	9.8	5.5	0.0
22.5°	81.7	41.9	27.3	17.8	10.0	5.6	0.0
20°	87.6	43.4	28.0	18.2	10.1	5.7	0.0
17.5°	92.9	44.7	28.6	18.6	10.3	5.8	0.0
15°	97.5	45.8	29.1	19.0	10.4	5.9	0.0
12.5°	101.4	46.8	29.6	19.2	10.5	6.0	0.0
10°	104.6	47.6	29.9	19.5	10.6	6.0	0.0
7.5°	107.1	48.2	30.2	19.7	10.6	6.0	0.0
5°	108.9	48.6	30.4	19.8	10.7	6.1	0.0
2.5°	109.9	48.9	30.6	19.9	10.7	6.1	0.0
0°	110.3	49.0	30.6	19.9	10.7	6.1	0.0
-2.5°	109.9	48.9	30.6	19.9	10.7	6.1	0.0
-5°	108.9	48.6	30.4	19.8	10.7	6.1	0.0
-7.5°	107.1	48.2	30.2	19.7	10.6	6.0	0.0
-10°	104.6	47.6	29.9	19.5	10.6	6.0	0.0
-12.5°	101.4	46.8	29.6	19.2	10.5	6.0	0.0
-15°	97.5	45.8	29.1	19.0	10.4	5.9	0.0
-17.5°	92.9	44.7	28.6	18.6	10.3	5.8	0.0
-20°	87.6	43.4	28.0	18.2	10.1	5.7	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	81.7	41.9	27.3	17.8	10.0	5.6	0.0
-25°	75.1	40.3	26.6	17.3	9.8	5.5	0.0
-27.5°	67.9	38.5	25.7	16.8	9.7	5.4	0.0
-30°	60.1	36.5	24.8	16.2	9.5	5.3	0.0
-32.5°	51.7	34.4	23.8	15.6	9.3	5.1	0.0
-35°	47.1	32.2	22.8	14.9	9.0	5.0	0.0
-37.5°	44.2	30.1	21.7	14.2	8.8	4.8	0.0
-40°	41.2	28.6	20.5	13.4	8.5	4.7	0.0
-42.5°	38.0	27.1	19.4	12.6	8.3	4.5	0.0
-45°	34.6	25.5	18.3	11.8	8.0	4.3	0.0
-47.5°	31.1	23.8	17.1	10.9	7.7	4.1	0.0
-50°	28.8	22.0	15.9	10.4	7.4	3.9	0.0
-52.5°	26.6	20.2	14.6	9.9	7.1	3.7	0.0
-55°	24.3	18.5	13.3	9.4	6.8	3.5	0.0
-57.5°	22.0	16.9	12.0	8.9	6.4	3.3	0.0
-60°	19.7	15.2	10.7	8.4	6.1	3.0	0.0
-62.5°	17.6	13.4	10.0	7.9	5.6	2.8	0.0
-65°	15.4	11.6	9.2	7.3	5.2	2.6	0.0
-67.5°	13.2	10.2	8.5	6.8	4.7	2.3	0.0
-70°	11.0	9.3	7.8	6.2	4.2	2.1	0.0
-72.5°	9.7	8.4	7.0	5.5	3.7	1.8	0.0
-75°	8.6	7.4	6.2	4.7	3.2	1.6	0.0
-77.5°	7.4	6.4	5.3	4.0	2.6	1.3	0.0
-80°	6.2	5.3	4.2	3.2	2.1	1.1	0.0
-82.5°	4.7	4.0	3.2	2.4	1.6	0.8	0.0
-85°	3.2	2.6	2.1	1.6	1.1	0.5	0.0
-87.5°	1.6	1.3	1.1	0.8	0.5	0.3	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)