

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: P1305387 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-640L-40-80-5S-HEG-A**

Issue Date: 2/3/2026

**Test Information**

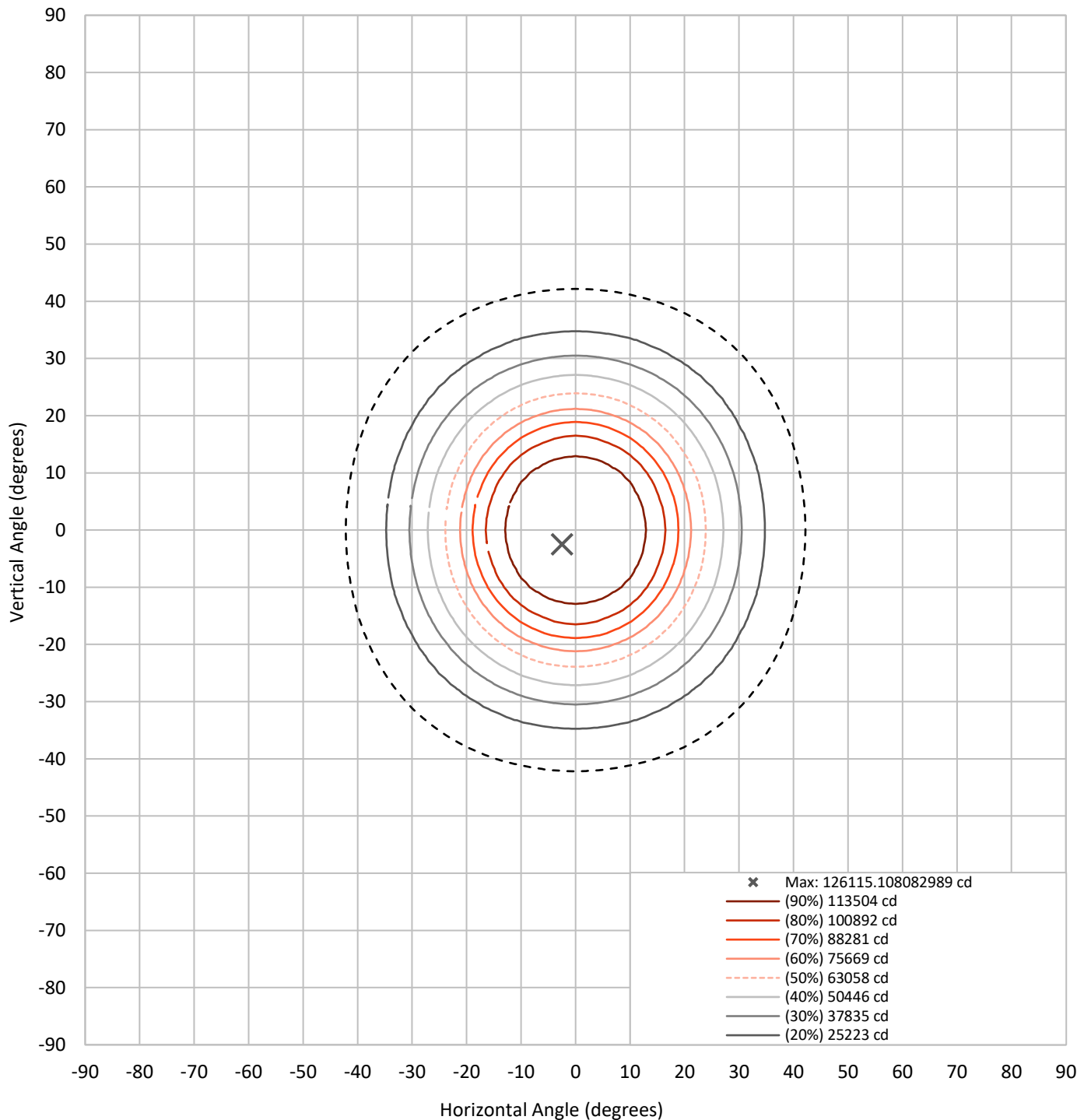
Test Method: LM-79-08  
Report Number: P1305387 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-08-640L-40-80-5S-HEG-A  
Description: EPHEBUS LUMASPORT 8 LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	92182.5 lumens	Max Intensity:	126115.1 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	142.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	47.6°H x 47.6°V	Field Angle (10%):	84.3°H x 84.3°V
Beam Lumens:	51714.3 lumens	Field Lumens:	85891.2 lumens
Beam Efficiency:	56.1%	Field Efficiency:	93.2%
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





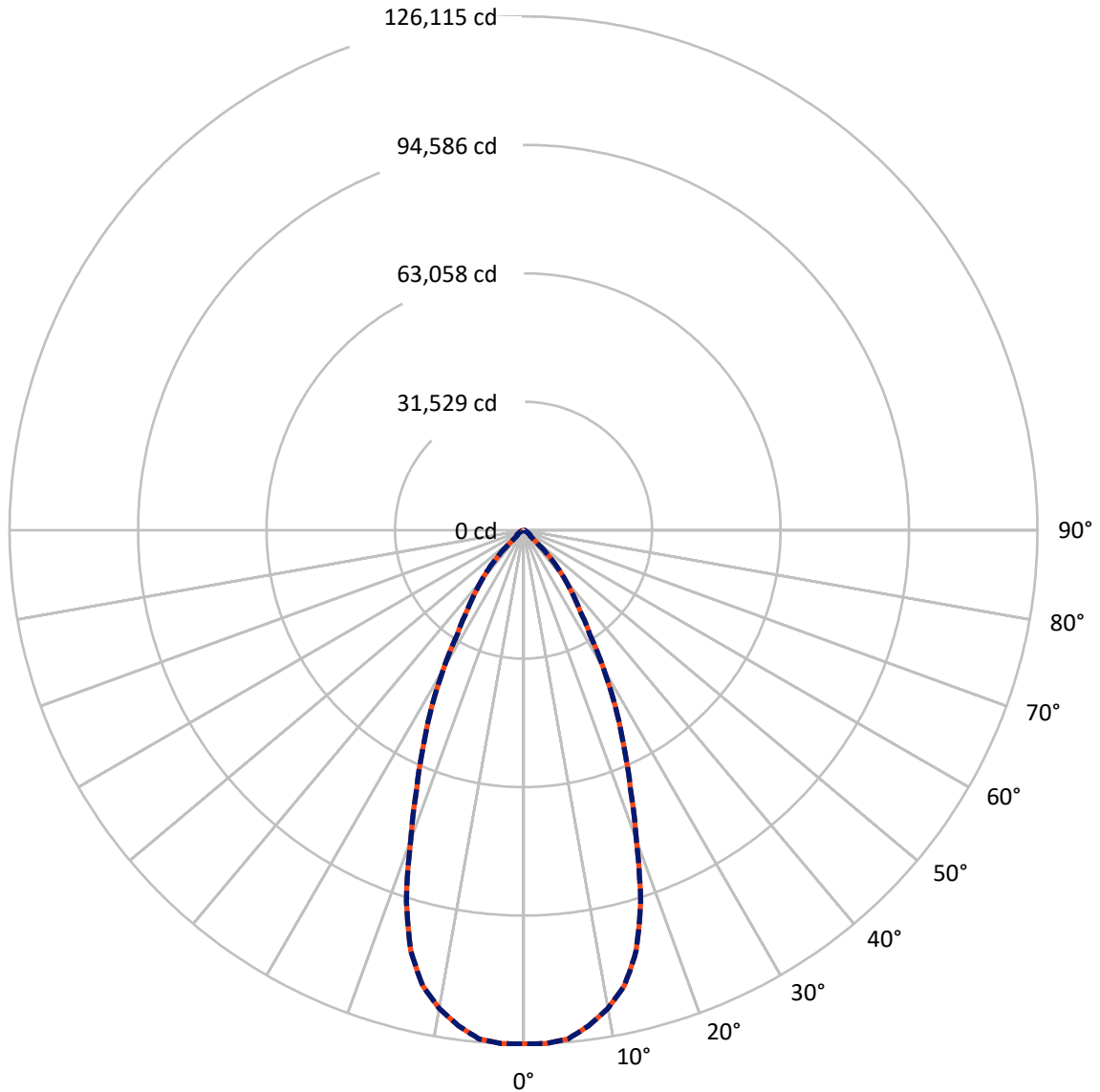
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### Lumen Table

90	0.1	0.9	2.9	6.2	7.9	6.2	2.9	0.9	0.1							
80	0.1	0.9	2.9	6.2	7.9	6.2	2.9	0.9	0.1							
70	0.4	0.5	1.6	4.0	8.2	13.3	18.0	20.7	20.7	18.0	13.3	8.2	4.0	1.6	0.5	0.4
60		1.2	4.7	12.7	24.8	37.9	47.7	53.0	53.0	47.7	37.9	24.8	12.7	4.7	1.2	
50	1.0	2.5	10.4	26.4	45.5	82.0	167.1	235.2	235.2	167.1	82.0	45.5	26.4	10.4	2.5	1.0
40		4.4	17.6	39.4	114.4	346.3	584.7	749.2	749.2	584.7	346.3	114.4	39.4	17.6	4.4	
30	1.8	6.4	24.3	64.8	314.7	715.9	1281.3	1719.7	1719.7	1281.3	715.9	314.7	64.8	24.3	6.4	1.8
20		8.2	28.7	125.2	499.1	1205.8	2240.7	3052.7	3052.7	2240.7	1205.8	499.1	125.2	28.7	8.2	
10	2.1	9.1	30.9	171.2	621.0	1571.1	2963.8	3699.6	3699.6	2963.8	1571.1	621.0	171.2	30.9	9.1	2.1
0		9.1	30.9	171.2	621.0	1571.1	2963.8	3699.6	3699.6	2963.8	1571.1	621.0	171.2	30.9	9.1	
-10	1.8	8.2	28.7	125.2	499.1	1205.8	2240.7	3052.7	3052.7	2240.7	1205.8	499.1	125.2	28.7	8.2	1.8
-20		6.4	24.3	64.8	314.7	715.9	1281.3	1719.7	1719.7	1281.3	715.9	314.7	64.8	24.3	6.4	
-30	1.0	4.4	17.6	39.4	114.4	346.3	584.7	749.2	749.2	584.7	346.3	114.4	39.4	17.6	4.4	1.0
-40		2.5	10.4	26.4	45.5	82.0	167.1	235.2	235.2	167.1	82.0	45.5	26.4	10.4	2.5	
-50	0.4	1.2	4.7	12.7	24.8	37.9	47.7	53.0	53.0	47.7	37.9	24.8	12.7	4.7	1.2	0.4
-60		0.5	1.6	4.0	8.2	13.3	18.0	20.7	20.7	18.0	13.3	8.2	4.0	1.6	0.5	
-70	0.1	0.9	2.9	6.2	7.9	6.2	2.9	0.9	0.1							
-80		0.1	0.9	2.9	6.2	7.9	6.2	2.9	0.9	0.1						
-90	0.1	0.9	2.9	6.2	7.9	6.2	2.9	0.9	0.1							

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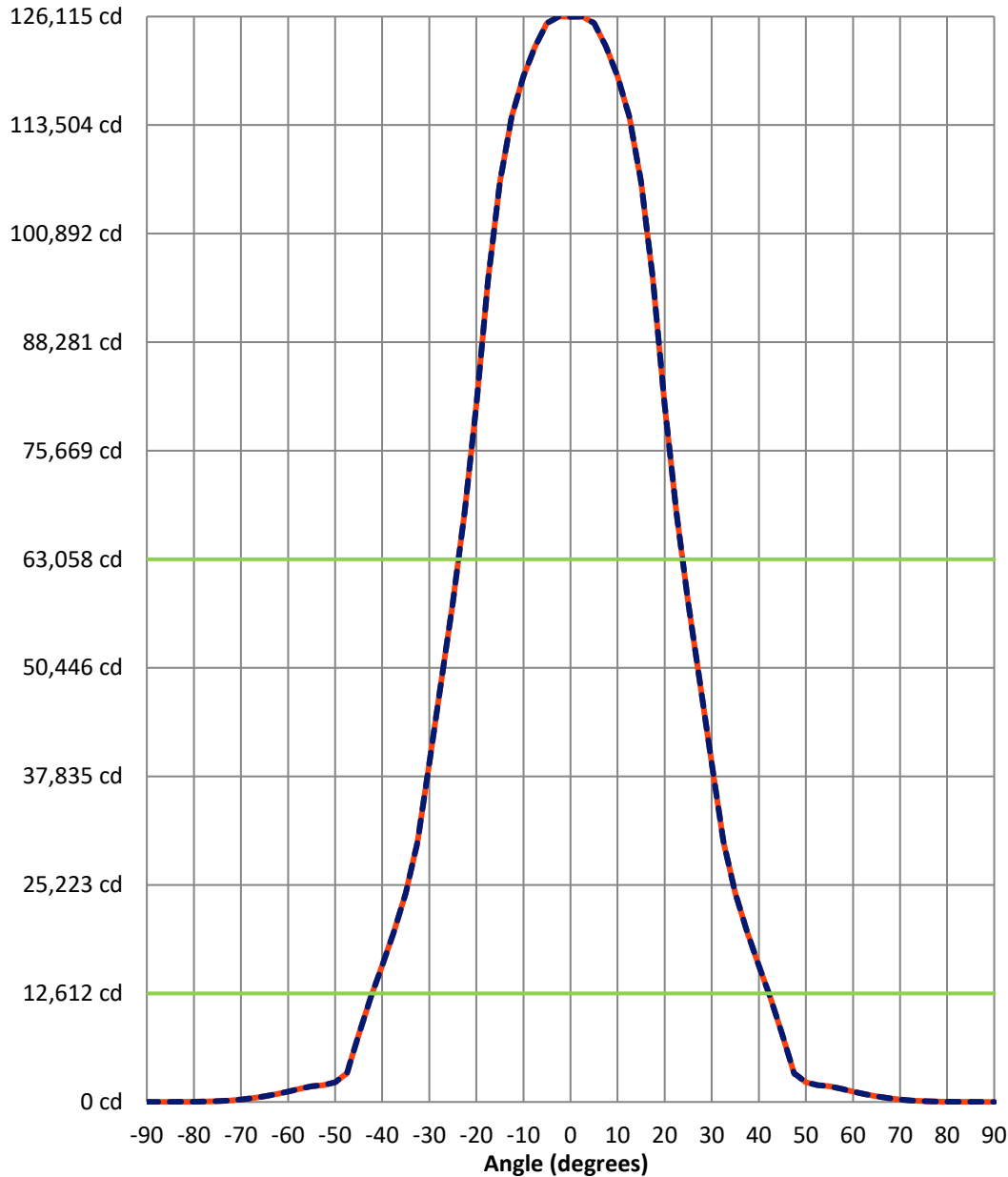
### Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg    - - - Horizontal Distribution Through -2.5-Deg

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### Luminous Intensity Plot



**Beam:**  
H Angle: 47.6°  
V Angle: 47.6°  
Lumens: 51714.3  
Efficiency: 56.1%

**Field:**  
H Angle: 84.3°  
V Angle: 84.3°  
Lumens: 85891.2  
Efficiency: 93.2%

**Spill:**  
Lumens: 6291.2  
Efficiency: 6.8%

— Vertical Distribution through -2.5-Deg  
- - Horizontal Distribution through -2.5-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	7.0	7.7
80°	0.0	1.1	2.1	3.2	4.2	5.3	6.3	7.3	8.3	9.3	10.3
77.5°	0.0	1.3	2.6	4.0	5.3	6.6	7.8	9.1	10.4	11.6	13.0
75°	0.0	1.6	3.2	4.7	6.3	7.8	9.4	10.9	12.4	14.3	16.1
72.5°	0.0	1.8	3.7	5.5	7.3	9.1	10.9	12.8	15.0	17.2	19.3
70°	0.0	2.1	4.2	6.2	8.3	10.4	12.4	15.0	17.5	20.0	23.4
67.5°	0.0	2.3	4.7	7.0	9.3	11.6	14.3	17.2	20.0	23.8	27.6
65°	0.0	2.6	5.2	7.7	10.3	13.0	16.1	19.3	23.4	27.6	33.4
62.5°	0.0	2.8	5.6	8.4	11.2	14.5	17.9	22.0	26.7	32.3	42.9
60°	0.0	3.0	6.1	9.1	12.2	15.9	19.7	24.8	29.9	40.7	52.2
57.5°	0.0	3.3	6.5	9.8	13.3	17.4	22.0	27.6	36.4	48.9	66.2
55°	0.0	3.5	7.0	10.5	14.4	18.8	24.3	30.3	43.5	58.3	82.2
52.5°	0.0	3.7	7.4	11.1	15.5	20.2	26.6	36.0	50.4	72.4	97.9
50°	0.0	3.9	7.8	11.7	16.5	22.0	28.8	41.8	58.7	86.0	119.1
47.5°	0.0	4.1	8.2	12.4	17.6	23.8	31.3	47.5	70.4	99.2	140.4
45°	0.0	4.3	8.6	13.1	18.5	25.5	35.9	52.9	81.7	117.5	160.9
42.5°	0.0	4.5	9.0	13.8	19.5	27.1	40.4	60.6	92.5	135.2	195.9
40°	0.0	4.7	9.3	14.5	20.5	28.6	44.7	69.6	104.4	152.1	231.8
37.5°	0.0	4.8	9.7	15.1	21.7	30.1	48.7	78.2	118.6	172.3	266.1
35°	0.0	5.0	10.0	15.7	22.8	32.7	52.6	86.4	132.2	201.4	303.2
32.5°	0.0	5.1	10.3	16.3	23.8	35.7	57.0	94.0	144.9	228.9	345.0
30°	0.0	5.3	10.6	16.8	24.8	38.5	63.1	101.9	156.8	254.6	384.2
27.5°	0.0	5.4	10.8	17.3	25.7	41.1	68.8	111.6	171.7	278.5	420.7
25°	0.0	5.5	11.1	17.7	26.6	43.5	74.0	120.5	191.1	305.8	454.7
22.5°	0.0	5.6	11.3	18.1	27.3	45.6	78.8	128.6	208.9	333.2	493.2
20°	0.0	5.7	11.5	18.5	28.0	47.6	83.1	135.9	224.9	358.0	527.9
17.5°	0.0	5.8	11.6	18.8	28.6	49.3	86.9	142.3	239.1	380.0	558.7
15°	0.0	5.9	11.8	19.1	29.1	50.9	90.2	148.0	251.5	399.2	585.7
12.5°	0.0	6.0	11.9	19.3	29.6	52.2	93.0	152.8	262.0	415.5	608.6
10°	0.0	6.0	12.0	19.5	29.9	53.2	95.4	156.7	270.7	429.0	627.5
7.5°	0.0	6.0	12.1	19.7	30.2	54.0	97.2	159.8	277.5	439.5	642.2
5°	0.0	6.1	12.2	19.8	30.4	54.6	98.5	162.0	282.3	447.0	652.7
2.5°	0.0	6.1	12.2	19.9	30.6	55.0	99.2	163.4	285.2	451.5	659.1
0°	0.0	6.1	12.2	19.9	30.6	55.1	99.5	163.8	286.2	453.0	661.2
-2.5°	0.0	6.1	12.2	19.9	30.6	55.1	99.5	163.8	286.2	453.0	661.2
-5°	0.0	6.1	12.2	19.8	30.4	54.6	98.5	162.0	282.3	447.0	652.7
-7.5°	0.0	6.0	12.1	19.7	30.2	54.0	97.2	159.8	277.5	439.5	642.2
-10°	0.0	6.0	12.0	19.5	29.9	53.2	95.4	156.7	270.7	429.0	627.5
-12.5°	0.0	6.0	11.9	19.3	29.6	52.2	93.0	152.8	262.0	415.5	608.6
-15°	0.0	5.9	11.8	19.1	29.1	50.9	90.2	148.0	251.5	399.2	585.7
-17.5°	0.0	5.8	11.6	18.8	28.6	49.3	86.9	142.3	239.1	380.0	558.7
-20°	0.0	5.7	11.5	18.5	28.0	47.6	83.1	135.9	224.9	358.0	527.9



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**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	11.3	18.1	27.3	45.6	78.8	128.6	208.9	333.2	493.2
-25°	0.0	5.5	11.1	17.7	26.6	43.5	74.0	120.5	191.1	305.8	454.7
-27.5°	0.0	5.4	10.8	17.3	25.7	41.1	68.8	111.6	171.7	278.5	420.7
-30°	0.0	5.3	10.6	16.8	24.8	38.5	63.1	101.9	156.8	254.6	384.2
-32.5°	0.0	5.1	10.3	16.3	23.8	35.7	57.0	94.0	144.9	228.9	345.0
-35°	0.0	5.0	10.0	15.7	22.8	32.7	52.6	86.4	132.2	201.4	303.2
-37.5°	0.0	4.8	9.7	15.1	21.7	30.1	48.7	78.2	118.6	172.3	266.1
-40°	0.0	4.7	9.3	14.5	20.5	28.6	44.7	69.6	104.4	152.1	231.8
-42.5°	0.0	4.5	9.0	13.8	19.5	27.1	40.4	60.6	92.5	135.2	195.9
-45°	0.0	4.3	8.6	13.1	18.5	25.5	35.9	52.9	81.7	117.5	160.9
-47.5°	0.0	4.1	8.2	12.4	17.6	23.8	31.3	47.5	70.4	99.2	140.4
-50°	0.0	3.9	7.8	11.7	16.5	22.0	28.8	41.8	58.7	86.0	119.1
-52.5°	0.0	3.7	7.4	11.1	15.5	20.2	26.6	36.0	50.4	72.4	97.9
-55°	0.0	3.5	7.0	10.5	14.4	18.8	24.3	30.3	43.5	58.3	82.2
-57.5°	0.0	3.3	6.5	9.8	13.3	17.4	22.0	27.6	36.4	48.9	66.2
-60°	0.0	3.0	6.1	9.1	12.2	15.9	19.7	24.8	29.9	40.7	52.2
-62.5°	0.0	2.8	5.6	8.4	11.2	14.5	17.9	22.0	26.7	32.3	42.9
-65°	0.0	2.6	5.2	7.7	10.3	13.0	16.1	19.3	23.4	27.6	33.4
-67.5°	0.0	2.3	4.7	7.0	9.3	11.6	14.3	17.2	20.0	23.8	27.6
-70°	0.0	2.1	4.2	6.2	8.3	10.4	12.4	15.0	17.5	20.0	23.4
-72.5°	0.0	1.8	3.7	5.5	7.3	9.1	10.9	12.8	15.0	17.2	19.3
-75°	0.0	1.6	3.2	4.7	6.3	7.8	9.4	10.9	12.4	14.3	16.1
-77.5°	0.0	1.3	2.6	4.0	5.3	6.6	7.8	9.1	10.4	11.6	13.0
-80°	0.0	1.1	2.1	3.2	4.2	5.3	6.3	7.3	8.3	9.3	10.3
-82.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.7	5.5	6.2	7.0	7.7
-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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**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	6.5	7.0	7.4	7.8	8.2	8.6	9.0	9.3	9.7
82.5°	8.4	9.1	9.8	10.5	11.1	11.7	12.4	13.1	13.8	14.5	15.1
80°	11.2	12.2	13.3	14.4	15.5	16.5	17.6	18.5	19.5	20.5	21.7
77.5°	14.5	15.9	17.4	18.8	20.2	22.0	23.8	25.5	27.1	28.6	30.1
75°	17.9	19.7	22.0	24.3	26.6	28.8	31.3	35.9	40.4	44.7	48.7
72.5°	22.0	24.8	27.6	30.3	36.0	41.8	47.5	52.9	60.6	69.6	78.2
70°	26.7	29.9	36.4	43.5	50.4	58.7	70.4	81.7	92.5	104.4	118.6
67.5°	32.3	40.7	48.9	58.3	72.4	86.0	99.2	117.5	135.2	152.1	172.3
65°	42.9	52.2	66.2	82.2	97.9	119.1	140.4	160.9	195.9	231.8	266.1
62.5°	53.2	70.2	88.2	108.7	133.6	157.8	196.9	240.0	281.5	333.9	385.6
60°	70.2	90.2	114.5	142.3	174.6	224.9	273.6	333.2	395.1	454.7	525.5
57.5°	88.2	114.5	145.3	185.8	241.7	299.8	371.9	441.6	522.7	603.3	684.7
55°	108.7	142.3	185.8	247.4	315.3	395.3	477.9	571.9	662.9	769.4	871.4
52.5°	133.6	174.6	241.7	315.3	403.1	497.6	601.6	711.7	830.8	950.2	1077.4
50°	157.8	224.9	299.8	395.3	497.6	611.6	736.2	867.9	1008.0	1150.2	1297.3
47.5°	196.9	273.6	371.9	477.9	601.6	736.2	880.4	1037.1	1194.3	1364.9	1530.9
45°	240.0	333.2	441.6	571.9	711.7	867.9	1037.1	1209.1	1398.9	1577.1	1729.7
42.5°	281.5	395.1	522.7	662.9	830.8	1008.0	1194.3	1398.9	1592.0	1760.0	1871.5
40°	333.9	454.7	603.3	769.4	950.2	1150.2	1364.9	1577.1	1760.0	1878.4	1955.3
37.5°	385.6	525.5	684.7	871.4	1077.4	1297.3	1530.9	1729.7	1871.5	1955.3	2160.2
35°	434.6	592.8	774.2	976.9	1198.7	1445.6	1669.5	1850.9	1941.2	2141.5	2521.3
32.5°	487.9	656.3	859.0	1083.4	1328.2	1580.6	1800.0	1913.3	2085.7	2398.5	3150.4
30°	542.2	728.2	942.4	1183.7	1451.6	1695.4	1872.1	1994.0	2250.1	2962.6	4993.3
27.5°	592.8	796.2	1028.5	1286.8	1563.8	1803.0	1923.9	2138.6	2654.1	3916.2	7399.0
25°	639.5	859.0	1108.1	1385.5	1656.2	1863.0	1993.2	2273.5	3120.4	6028.3	9553.0
22.5°	686.8	916.8	1181.1	1476.0	1741.1	1904.1	2108.7	2631.6	4152.2	7982.5	11529.2
20°	733.9	976.9	1252.4	1556.0	1818.2	1941.5	2213.9	2997.1	5818.1	9668.7	13219.2
17.5°	775.8	1030.5	1319.3	1619.2	1855.8	2000.4	2342.1	3325.4	7317.4	11189.8	14688.8
15°	812.5	1077.4	1377.9	1674.5	1882.8	2076.7	2608.5	4415.9	8594.7	12494.3	15993.5
12.5°	843.7	1117.3	1427.9	1721.7	1905.9	2141.9	2836.8	5463.3	9662.3	13530.9	17165.1
10°	869.3	1150.2	1469.0	1760.6	1924.9	2195.8	3025.5	6330.5	10547.7	14392.3	18140.7
7.5°	889.4	1175.9	1501.2	1791.1	1939.8	2238.1	3173.6	7011.7	11244.1	15070.7	18910.7
5°	903.8	1194.3	1524.3	1812.9	1950.5	2268.4	3280.1	7501.8	11745.7	15560.1	19466.8
2.5°	912.4	1205.4	1538.2	1826.1	1956.9	2286.7	3344.3	7797.4	12048.4	15855.7	19803.1
0°	915.3	1209.1	1542.8	1830.5	1959.1	2292.8	3365.7	7896.2	12149.6	15954.5	19915.6
-2.5°	912.4	1205.4	1538.2	1826.1	1956.9	2286.7	3344.3	7797.4	12048.4	15855.7	19803.1
-5°	903.8	1194.3	1524.3	1812.9	1950.5	2268.4	3280.1	7501.8	11745.7	15560.1	19466.8
-7.5°	889.4	1175.9	1501.2	1791.1	1939.8	2238.1	3173.6	7011.7	11244.1	15070.7	18910.7
-10°	869.3	1150.2	1469.0	1760.6	1924.9	2195.8	3025.5	6330.5	10547.7	14392.3	18140.7
-12.5°	843.7	1117.3	1427.9	1721.7	1905.9	2141.9	2836.8	5463.3	9662.3	13530.9	17165.1
-15°	812.5	1077.4	1377.9	1674.5	1882.8	2076.7	2608.5	4415.9	8594.7	12494.3	15993.5
-17.5°	775.8	1030.5	1319.3	1619.2	1855.8	2000.4	2342.1	3325.4	7317.4	11189.8	14688.8
-20°	733.9	976.9	1252.4	1556.0	1818.2	1941.5	2213.9	2997.1	5818.1	9668.7	13219.2



REPORT NUMBER: P1305387 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	686.8	916.8	1181.1	1476.0	1741.1	1904.1	2108.7	2631.6	4152.2	7982.5	11529.2
-25°	639.5	859.0	1108.1	1385.5	1656.2	1863.0	1993.2	2273.5	3120.4	6028.3	9553.0
-27.5°	592.8	796.2	1028.5	1286.8	1563.8	1803.0	1923.9	2138.6	2654.1	3916.2	7399.0
-30°	542.2	728.2	942.4	1183.7	1451.6	1695.4	1872.1	1994.0	2250.1	2962.6	4993.3
-32.5°	487.9	656.3	859.0	1083.4	1328.2	1580.6	1800.0	1913.3	2085.7	2398.5	3150.4
-35°	434.6	592.8	774.2	976.9	1198.7	1445.6	1669.5	1850.9	1941.2	2141.5	2521.3
-37.5°	385.6	525.5	684.7	871.4	1077.4	1297.3	1530.9	1729.7	1871.5	1955.3	2160.2
-40°	333.9	454.7	603.3	769.4	950.2	1150.2	1364.9	1577.1	1760.0	1878.4	1955.3
-42.5°	281.5	395.1	522.7	662.9	830.8	1008.0	1194.3	1398.9	1592.0	1760.0	1871.5
-45°	240.0	333.2	441.6	571.9	711.7	867.9	1037.1	1209.1	1398.9	1577.1	1729.7
-47.5°	196.9	273.6	371.9	477.9	601.6	736.2	880.4	1037.1	1194.3	1364.9	1530.9
-50°	157.8	224.9	299.8	395.3	497.6	611.6	736.2	867.9	1008.0	1150.2	1297.3
-52.5°	133.6	174.6	241.7	315.3	403.1	497.6	601.6	711.7	830.8	950.2	1077.4
-55°	108.7	142.3	185.8	247.4	315.3	395.3	477.9	571.9	662.9	769.4	871.4
-57.5°	88.2	114.5	145.3	185.8	241.7	299.8	371.9	441.6	522.7	603.3	684.7
-60°	70.2	90.2	114.5	142.3	174.6	224.9	273.6	333.2	395.1	454.7	525.5
-62.5°	53.2	70.2	88.2	108.7	133.6	157.8	196.9	240.0	281.5	333.9	385.6
-65°	42.9	52.2	66.2	82.2	97.9	119.1	140.4	160.9	195.9	231.8	266.1
-67.5°	32.3	40.7	48.9	58.3	72.4	86.0	99.2	117.5	135.2	152.1	172.3
-70°	26.7	29.9	36.4	43.5	50.4	58.7	70.4	81.7	92.5	104.4	118.6
-72.5°	22.0	24.8	27.6	30.3	36.0	41.8	47.5	52.9	60.6	69.6	78.2
-75°	17.9	19.7	22.0	24.3	26.6	28.8	31.3	35.9	40.4	44.7	48.7
-77.5°	14.5	15.9	17.4	18.8	20.2	22.0	23.8	25.5	27.1	28.6	30.1
-80°	11.2	12.2	13.3	14.4	15.5	16.5	17.6	18.5	19.5	20.5	21.7
-82.5°	8.4	9.1	9.8	10.5	11.1	11.7	12.4	13.1	13.8	14.5	15.1
-85°	5.6	6.1	6.5	7.0	7.4	7.8	8.2	8.6	9.0	9.3	9.7
-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



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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°	10.0	10.3	10.6	10.8	11.1	11.3	11.5	11.6	11.8	11.9	12.0
82.5°	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.8	19.1	19.3	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°	32.7	35.7	38.5	41.1	43.5	45.6	47.6	49.3	50.9	52.2	53.2
75°	52.6	57.0	63.1	68.8	74.0	78.8	83.1	86.9	90.2	93.0	95.4
72.5°	86.4	94.0	101.9	111.6	120.5	128.6	135.9	142.3	148.0	152.8	156.7
70°	132.2	144.9	156.8	171.7	191.1	208.9	224.9	239.1	251.5	262.0	270.7
67.5°	201.4	228.9	254.6	278.5	305.8	333.2	358.0	380.0	399.2	415.5	429.0
65°	303.2	345.0	384.2	420.7	454.7	493.2	527.9	558.7	585.7	608.6	627.5
62.5°	434.6	487.9	542.2	592.8	639.5	686.8	733.9	775.8	812.5	843.7	869.3
60°	592.8	656.3	728.2	796.2	859.0	916.8	976.9	1030.5	1077.4	1117.3	1150.2
57.5°	774.2	859.0	942.4	1028.5	1108.1	1181.1	1252.4	1319.3	1377.9	1427.9	1469.0
55°	976.9	1083.4	1183.7	1286.8	1385.5	1476.0	1556.0	1619.2	1674.5	1721.7	1760.6
52.5°	1198.7	1328.2	1451.6	1563.8	1656.2	1741.1	1818.2	1855.8	1882.8	1905.9	1924.9
50°	1445.6	1580.6	1695.4	1803.0	1863.0	1904.1	1941.5	2000.4	2076.7	2141.9	2195.8
47.5°	1669.5	1800.0	1872.1	1923.9	1993.2	2108.7	2213.9	2342.1	2608.5	2836.8	3025.5
45°	1850.9	1913.3	1994.0	2138.6	2273.5	2631.6	2997.1	3325.4	4415.9	5463.3	6330.5
42.5°	1941.2	2085.7	2250.1	2654.1	3120.4	4152.2	5818.1	7317.4	8594.7	9662.3	10547.7
40°	2141.5	2398.5	2962.6	3916.2	6028.3	7982.5	9668.7	11189.8	12494.3	13530.9	14392.3
37.5°	2521.3	3150.4	4993.3	7399.0	9553.0	11529.2	13219.2	14688.8	15993.5	17165.1	18140.7
35°	3213.4	5538.0	8213.8	10621.5	12814.1	14710.6	16479.8	18131.8	19601.2	21002.7	22208.2
32.5°	5538.0	8477.3	11162.5	13558.7	15728.0	17834.7	19792.7	21799.7	23606.0	25437.0	27199.6
30°	8213.8	11162.5	13809.1	16255.8	18664.0	21065.9	23454.2	26057.7	28683.2	31265.7	34225.7
27.5°	10621.5	13558.7	16255.8	18943.3	21721.4	24490.9	27930.9	31448.5	35826.8	39667.2	42973.7
25°	12814.1	15728.0	18664.0	21721.4	24950.3	28885.7	33732.1	38980.5	43816.2	48095.5	51710.7
22.5°	14710.6	17834.7	21065.9	24490.9	28885.7	34504.1	40611.6	46389.7	51644.3	56295.7	60516.5
20°	16479.8	19792.7	23454.2	27930.9	33732.1	40611.6	47262.5	53465.5	59254.3	65039.5	70231.7
17.5°	18131.8	21799.7	26057.7	31448.5	38980.5	46389.7	53465.5	60360.1	67384.4	74686.8	81358.5
15°	19601.2	23606.0	28683.2	35826.8	43816.2	51644.3	59254.3	67384.4	76214.8	85121.8	93856.2
12.5°	21002.7	25437.0	31265.7	39667.2	48095.5	56295.7	65039.5	74686.8	85121.8	95977.6	103482.7
10°	22208.2	27199.6	34225.7	42973.7	51710.7	60516.5	70231.7	81358.5	93856.2	103482.7	110701.1
7.5°	23161.8	28597.6	36581.4	45616.6	54608.8	64163.3	75121.1	87738.3	100034.8	109246.6	115081.3
5°	23851.8	29611.4	38294.6	47545.2	56733.0	66851.8	78753.6	92578.8	104216.3	112599.5	117738.8
2.5°	24269.4	30226.1	39335.2	48719.7	58030.7	68501.2	80995.0	95590.2	106849.1	114457.0	119166.3
0°	24409.3	30432.1	39684.3	49114.1	58467.3	69057.3	81753.2	96613.4	107749.8	115027.6	119654.5
-2.5°	24269.4	30226.1	39335.2	48719.7	58030.7	68501.2	80995.0	95590.2	106849.1	114457.0	119166.3
-5°	23851.8	29611.4	38294.6	47545.2	56733.0	66851.8	78753.6	92578.8	104216.3	112599.5	117738.8
-7.5°	23161.8	28597.6	36581.4	45616.6	54608.8	64163.3	75121.1	87738.3	100034.8	109246.6	115081.3
-10°	22208.2	27199.6	34225.7	42973.7	51710.7	60516.5	70231.7	81358.5	93856.2	103482.7	110701.1
-12.5°	21002.7	25437.0	31265.7	39667.2	48095.5	56295.7	65039.5	74686.8	85121.8	95977.6	103482.7
-15°	19601.2	23606.0	28683.2	35826.8	43816.2	51644.3	59254.3	67384.4	76214.8	85121.8	93856.2
-17.5°	18131.8	21799.7	26057.7	31448.5	38980.5	46389.7	53465.5	60360.1	67384.4	74686.8	81358.5
-20°	16479.8	19792.7	23454.2	27930.9	33732.1	40611.6	47262.5	53465.5	59254.3	65039.5	70231.7



REPORT NUMBER: P1305387 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-640L-40-80-5S-HEG-A

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	14710.6	17834.7	21065.9	24490.9	28885.7	34504.1	40611.6	46389.7	51644.3	56295.7	60516.5
-25°	12814.1	15728.0	18664.0	21721.4	24950.3	28885.7	33732.1	38980.5	43816.2	48095.5	51710.7
-27.5°	10621.5	13558.7	16255.8	18943.3	21721.4	24490.9	27930.9	31448.5	35826.8	39667.2	42973.7
-30°	8213.8	11162.5	13809.1	16255.8	18664.0	21065.9	23454.2	26057.7	28683.2	31265.7	34225.7
-32.5°	5538.0	8477.3	11162.5	13558.7	15728.0	17834.7	19792.7	21799.7	23606.0	25437.0	27199.6
-35°	3213.4	5538.0	8213.8	10621.5	12814.1	14710.6	16479.8	18131.8	19601.2	21002.7	22208.2
-37.5°	2521.3	3150.4	4993.3	7399.0	9553.0	11529.2	13219.2	14688.8	15993.5	17165.1	18140.7
-40°	2141.5	2398.5	2962.6	3916.2	6028.3	7982.5	9668.7	11189.8	12494.3	13530.9	14392.3
-42.5°	1941.2	2085.7	2250.1	2654.1	3120.4	4152.2	5818.1	7317.4	8594.7	9662.3	10547.7
-45°	1850.9	1913.3	1994.0	2138.6	2273.5	2631.6	2997.1	3325.4	4415.9	5463.3	6330.5
-47.5°	1669.5	1800.0	1872.1	1923.9	1993.2	2108.7	2213.9	2342.1	2608.5	2836.8	3025.5
-50°	1445.6	1580.6	1695.4	1803.0	1863.0	1904.1	1941.5	2000.4	2076.7	2141.9	2195.8
-52.5°	1198.7	1328.2	1451.6	1563.8	1656.2	1741.1	1818.2	1855.8	1882.8	1905.9	1924.9
-55°	976.9	1083.4	1183.7	1286.8	1385.5	1476.0	1556.0	1619.2	1674.5	1721.7	1760.6
-57.5°	774.2	859.0	942.4	1028.5	1108.1	1181.1	1252.4	1319.3	1377.9	1427.9	1469.0
-60°	592.8	656.3	728.2	796.2	859.0	916.8	976.9	1030.5	1077.4	1117.3	1150.2
-62.5°	434.6	487.9	542.2	592.8	639.5	686.8	733.9	775.8	812.5	843.7	869.3
-65°	303.2	345.0	384.2	420.7	454.7	493.2	527.9	558.7	585.7	608.6	627.5
-67.5°	201.4	228.9	254.6	278.5	305.8	333.2	358.0	380.0	399.2	415.5	429.0
-70°	132.2	144.9	156.8	171.7	191.1	208.9	224.9	239.1	251.5	262.0	270.7
-72.5°	86.4	94.0	101.9	111.6	120.5	128.6	135.9	142.3	148.0	152.8	156.7
-75°	52.6	57.0	63.1	68.8	74.0	78.8	83.1	86.9	90.2	93.0	95.4
-77.5°	32.7	35.7	38.5	41.1	43.5	45.6	47.6	49.3	50.9	52.2	53.2
-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°	15.7	16.3	16.8	17.3	17.7	18.1	18.5	18.8	19.1	19.3	19.5
-85°	10.0	10.3	10.6	10.8	11.1	11.3	11.5	11.6	11.8	11.9	12.0
-87.5°	5.0	5.1	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.0
-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: P1305387 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-640L-40-80-5S-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°	12.1	12.2	12.2	12.2	12.2	12.2	12.1	12.0	11.9	11.8	11.6
82.5°	19.7	19.8	19.9	19.9	19.9	19.8	19.7	19.5	19.3	19.1	18.8
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°	54.0	54.6	55.0	55.1	55.0	54.6	54.0	53.2	52.2	50.9	49.3
75°	97.2	98.5	99.2	99.5	99.2	98.5	97.2	95.4	93.0	90.2	86.9
72.5°	159.8	162.0	163.4	163.8	163.4	162.0	159.8	156.7	152.8	148.0	142.3
70°	277.5	282.3	285.2	286.2	285.2	282.3	277.5	270.7	262.0	251.5	239.1
67.5°	439.5	447.0	451.5	453.0	451.5	447.0	439.5	429.0	415.5	399.2	380.0
65°	642.2	652.7	659.1	661.2	659.1	652.7	642.2	627.5	608.6	585.7	558.7
62.5°	889.4	903.8	912.4	915.3	912.4	903.8	889.4	869.3	843.7	812.5	775.8
60°	1175.9	1194.3	1205.4	1209.1	1205.4	1194.3	1175.9	1150.2	1117.3	1077.4	1030.5
57.5°	1501.2	1524.3	1538.2	1542.8	1538.2	1524.3	1501.2	1469.0	1427.9	1377.9	1319.3
55°	1791.1	1812.9	1826.1	1830.5	1826.1	1812.9	1791.1	1760.6	1721.7	1674.5	1619.2
52.5°	1939.8	1950.5	1956.9	1959.1	1956.9	1950.5	1939.8	1924.9	1905.9	1882.8	1855.8
50°	2238.1	2268.4	2286.7	2292.8	2286.7	2268.4	2238.1	2195.8	2141.9	2076.7	2000.4
47.5°	3173.6	3280.1	3344.3	3365.7	3344.3	3280.1	3173.6	3025.5	2836.8	2608.5	2342.1
45°	7011.7	7501.8	7797.4	7896.2	7797.4	7501.8	7011.7	6330.5	5463.3	4415.9	3325.4
42.5°	11244.1	11745.7	12048.4	12149.6	12048.4	11745.7	11244.1	10547.7	9662.3	8594.7	7317.4
40°	15070.7	15560.1	15855.7	15954.5	15855.7	15560.1	15070.7	14392.3	13530.9	12494.3	11189.8
37.5°	18910.7	19466.8	19803.1	19915.6	19803.1	19466.8	18910.7	18140.7	17165.1	15993.5	14688.8
35°	23161.8	23851.8	24269.4	24409.3	24269.4	23851.8	23161.8	22208.2	21002.7	19601.2	18131.8
32.5°	28597.6	29611.4	30226.1	30432.1	30226.1	29611.4	28597.6	27199.6	25437.0	23606.0	21799.7
30°	36581.4	38294.6	39335.2	39684.3	39335.2	38294.6	36581.4	34225.7	31265.7	28683.2	26057.7
27.5°	45616.6	47545.2	48719.7	49114.1	48719.7	47545.2	45616.6	42973.7	39667.2	35826.8	31448.5
25°	54608.8	56733.0	58030.7	58467.3	58030.7	56733.0	54608.8	51710.7	48095.5	43816.2	38980.5
22.5°	64163.3	66851.8	68501.2	69057.3	68501.2	66851.8	64163.3	60516.5	56295.7	51644.3	46389.7
20°	75121.1	78753.6	80995.0	81753.2	80995.0	78753.6	75121.1	70231.7	65039.5	59254.3	53465.5
17.5°	87738.3	92578.8	95590.2	96613.4	95590.2	92578.8	87738.3	81358.5	74686.8	67384.4	60360.1
15°	100034.8	104216.3	106849.1	107749.8	106849.1	104216.3	100034.8	93856.2	85121.8	76214.8	67384.4
12.5°	109246.6	112599.5	114457.0	115027.6	114457.0	112599.5	109246.6	103482.7	95977.6	85121.8	74686.8
10°	115081.3	117738.8	119166.3	119654.5	119166.3	117738.8	115081.3	110701.1	103482.7	93856.2	81358.5
7.5°	118706.8	121180.5	122666.4	123190.1	122666.4	121180.5	118706.8	115081.3	109246.6	100034.8	87738.3
5°	121180.5	123752.6	125348.3	125834.9	125348.3	123752.6	121180.5	117738.8	112599.5	104216.3	92578.8
2.5°	122666.4	125348.3	126115.1	126088.9	126115.1	125348.3	122666.4	119166.3	114457.0	106849.1	95590.2
0°	123190.1	125834.9	126088.9	125602.2	126088.9	125834.9	123190.1	119654.5	115027.6	107749.8	96613.4
-2.5°	122666.4	125348.3	126115.1	126088.9	126115.1	125348.3	122666.4	119166.3	114457.0	106849.1	95590.2
-5°	121180.5	123752.6	125348.3	125834.9	125348.3	123752.6	121180.5	117738.8	112599.5	104216.3	92578.8
-7.5°	118706.8	121180.5	122666.4	123190.1	122666.4	121180.5	118706.8	115081.3	109246.6	100034.8	87738.3
-10°	115081.3	117738.8	119166.3	119654.5	119166.3	117738.8	115081.3	110701.1	103482.7	93856.2	81358.5
-12.5°	109246.6	112599.5	114457.0	115027.6	114457.0	112599.5	109246.6	103482.7	95977.6	85121.8	74686.8
-15°	100034.8	104216.3	106849.1	107749.8	106849.1	104216.3	100034.8	93856.2	85121.8	76214.8	67384.4
-17.5°	87738.3	92578.8	95590.2	96613.4	95590.2	92578.8	87738.3	81358.5	74686.8	67384.4	60360.1
-20°	75121.1	78753.6	80995.0	81753.2	80995.0	78753.6	75121.1	70231.7	65039.5	59254.3	53465.5



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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°	64163.3	66851.8	68501.2	69057.3	68501.2	66851.8	64163.3	60516.5	56295.7	51644.3	46389.7
-25°	54608.8	56733.0	58030.7	58467.3	58030.7	56733.0	54608.8	51710.7	48095.5	43816.2	38980.5
-27.5°	45616.6	47545.2	48719.7	49114.1	48719.7	47545.2	45616.6	42973.7	39667.2	35826.8	31448.5
-30°	36581.4	38294.6	39335.2	39684.3	39335.2	38294.6	36581.4	34225.7	31265.7	28683.2	26057.7
-32.5°	28597.6	29611.4	30226.1	30432.1	30226.1	29611.4	28597.6	27199.6	25437.0	23606.0	21799.7
-35°	23161.8	23851.8	24269.4	24409.3	24269.4	23851.8	23161.8	22208.2	21002.7	19601.2	18131.8
-37.5°	18910.7	19466.8	19803.1	19915.6	19803.1	19466.8	18910.7	18140.7	17165.1	15993.5	14688.8
-40°	15070.7	15560.1	15855.7	15954.5	15855.7	15560.1	15070.7	14392.3	13530.9	12494.3	11189.8
-42.5°	11244.1	11745.7	12048.4	12149.6	12048.4	11745.7	11244.1	10547.7	9662.3	8594.7	7317.4
-45°	7011.7	7501.8	7797.4	7896.2	7797.4	7501.8	7011.7	6330.5	5463.3	4415.9	3325.4
-47.5°	3173.6	3280.1	3344.3	3365.7	3344.3	3280.1	3173.6	3025.5	2836.8	2608.5	2342.1
-50°	2238.1	2268.4	2286.7	2292.8	2286.7	2268.4	2238.1	2195.8	2141.9	2076.7	2000.4
-52.5°	1939.8	1950.5	1956.9	1959.1	1956.9	1950.5	1939.8	1924.9	1905.9	1882.8	1855.8
-55°	1791.1	1812.9	1826.1	1830.5	1826.1	1812.9	1791.1	1760.6	1721.7	1674.5	1619.2
-57.5°	1501.2	1524.3	1538.2	1542.8	1538.2	1524.3	1501.2	1469.0	1427.9	1377.9	1319.3
-60°	1175.9	1194.3	1205.4	1209.1	1205.4	1194.3	1175.9	1150.2	1117.3	1077.4	1030.5
-62.5°	889.4	903.8	912.4	915.3	912.4	903.8	889.4	869.3	843.7	812.5	775.8
-65°	642.2	652.7	659.1	661.2	659.1	652.7	642.2	627.5	608.6	585.7	558.7
-67.5°	439.5	447.0	451.5	453.0	451.5	447.0	439.5	429.0	415.5	399.2	380.0
-70°	277.5	282.3	285.2	286.2	285.2	282.3	277.5	270.7	262.0	251.5	239.1
-72.5°	159.8	162.0	163.4	163.8	163.4	162.0	159.8	156.7	152.8	148.0	142.3
-75°	97.2	98.5	99.2	99.5	99.2	98.5	97.2	95.4	93.0	90.2	86.9
-77.5°	54.0	54.6	55.0	55.1	55.0	54.6	54.0	53.2	52.2	50.9	49.3
-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	19.3	19.1	18.8
-85°	12.1	12.2	12.2	12.2	12.2	12.2	12.1	12.0	11.9	11.8	11.6
-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°	11.5	11.3	11.1	10.8	10.6	10.3	10.0	9.7	9.3	9.0	8.6
82.5°	18.5	18.1	17.7	17.3	16.8	16.3	15.7	15.1	14.5	13.8	13.1
80°	28.0	27.3	26.6	25.7	24.8	23.8	22.8	21.7	20.5	19.5	18.5
77.5°	47.6	45.6	43.5	41.1	38.5	35.7	32.7	30.1	28.6	27.1	25.5
75°	83.1	78.8	74.0	68.8	63.1	57.0	52.6	48.7	44.7	40.4	35.9
72.5°	135.9	128.6	120.5	111.6	101.9	94.0	86.4	78.2	69.6	60.6	52.9
70°	224.9	208.9	191.1	171.7	156.8	144.9	132.2	118.6	104.4	92.5	81.7
67.5°	358.0	333.2	305.8	278.5	254.6	228.9	201.4	172.3	152.1	135.2	117.5
65°	527.9	493.2	454.7	420.7	384.2	345.0	303.2	266.1	231.8	195.9	160.9
62.5°	733.9	686.8	639.5	592.8	542.2	487.9	434.6	385.6	333.9	281.5	240.0
60°	976.9	916.8	859.0	796.2	728.2	656.3	592.8	525.5	454.7	395.1	333.2
57.5°	1252.4	1181.1	1108.1	1028.5	942.4	859.0	774.2	684.7	603.3	522.7	441.6
55°	1556.0	1476.0	1385.5	1286.8	1183.7	1083.4	976.9	871.4	769.4	662.9	571.9
52.5°	1818.2	1741.1	1656.2	1563.8	1451.6	1328.2	1198.7	1077.4	950.2	830.8	711.7
50°	1941.5	1904.1	1863.0	1803.0	1695.4	1580.6	1445.6	1297.3	1150.2	1008.0	867.9
47.5°	2213.9	2108.7	1993.2	1923.9	1872.1	1800.0	1669.5	1530.9	1364.9	1194.3	1037.1
45°	2997.1	2631.6	2273.5	2138.6	1994.0	1913.3	1850.9	1729.7	1577.1	1398.9	1209.1
42.5°	5818.1	4152.2	3120.4	2654.1	2250.1	2085.7	1941.2	1871.5	1760.0	1592.0	1398.9
40°	9668.7	7982.5	6028.3	3916.2	2962.6	2398.5	2141.5	1955.3	1878.4	1760.0	1577.1
37.5°	13219.2	11529.2	9553.0	7399.0	4993.3	3150.4	2521.3	2160.2	1955.3	1871.5	1729.7
35°	16479.8	14710.6	12814.1	10621.5	8213.8	5538.0	3213.4	2521.3	2141.5	1941.2	1850.9
32.5°	19792.7	17834.7	15728.0	13558.7	11162.5	8477.3	5538.0	3150.4	2398.5	2085.7	1913.3
30°	23454.2	21065.9	18664.0	16255.8	13809.1	11162.5	8213.8	4993.3	2962.6	2250.1	1994.0
27.5°	27930.9	24490.9	21721.4	18943.3	16255.8	13558.7	10621.5	7399.0	3916.2	2654.1	2138.6
25°	33732.1	28885.7	24950.3	21721.4	18664.0	15728.0	12814.1	9553.0	6028.3	3120.4	2273.5
22.5°	40611.6	34504.1	28885.7	24490.9	21065.9	17834.7	14710.6	11529.2	7982.5	4152.2	2631.6
20°	47262.5	40611.6	33732.1	27930.9	23454.2	19792.7	16479.8	13219.2	9668.7	5818.1	2997.1
17.5°	53465.5	46389.7	38980.5	31448.5	26057.7	21799.7	18131.8	14688.8	11189.8	7317.4	3325.4
15°	59254.3	51644.3	43816.2	35826.8	28683.2	23606.0	19601.2	15993.5	12494.3	8594.7	4415.9
12.5°	65039.5	56295.7	48095.5	39667.2	31265.7	25437.0	21002.7	17165.1	13530.9	9662.3	5463.3
10°	70231.7	60516.5	51710.7	42973.7	34225.7	27199.6	22208.2	18140.7	14392.3	10547.7	6330.5
7.5°	75121.1	64163.3	54608.8	45616.6	36581.4	28597.6	23161.8	18910.7	15070.7	11244.1	7011.7
5°	78753.6	66851.8	56733.0	47545.2	38294.6	29611.4	23851.8	19466.8	15560.1	11745.7	7501.8
2.5°	80995.0	68501.2	58030.7	48719.7	39335.2	30226.1	24269.4	19803.1	15855.7	12048.4	7797.4
0°	81753.2	69057.3	58467.3	49114.1	39684.3	30432.1	24409.3	19915.6	15954.5	12149.6	7896.2
-2.5°	80995.0	68501.2	58030.7	48719.7	39335.2	30226.1	24269.4	19803.1	15855.7	12048.4	7797.4
-5°	78753.6	66851.8	56733.0	47545.2	38294.6	29611.4	23851.8	19466.8	15560.1	11745.7	7501.8
-7.5°	75121.1	64163.3	54608.8	45616.6	36581.4	28597.6	23161.8	18910.7	15070.7	11244.1	7011.7
-10°	70231.7	60516.5	51710.7	42973.7	34225.7	27199.6	22208.2	18140.7	14392.3	10547.7	6330.5
-12.5°	65039.5	56295.7	48095.5	39667.2	31265.7	25437.0	21002.7	17165.1	13530.9	9662.3	5463.3
-15°	59254.3	51644.3	43816.2	35826.8	28683.2	23606.0	19601.2	15993.5	12494.3	8594.7	4415.9
-17.5°	53465.5	46389.7	38980.5	31448.5	26057.7	21799.7	18131.8	14688.8	11189.8	7317.4	3325.4
-20°	47262.5	40611.6	33732.1	27930.9	23454.2	19792.7	16479.8	13219.2	9668.7	5818.1	2997.1



REPORT NUMBER: P1305387 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	40611.6	34504.1	28885.7	24490.9	21065.9	17834.7	14710.6	11529.2	7982.5	4152.2	2631.6
-25°	33732.1	28885.7	24950.3	21721.4	18664.0	15728.0	12814.1	9553.0	6028.3	3120.4	2273.5
-27.5°	27930.9	24490.9	21721.4	18943.3	16255.8	13558.7	10621.5	7399.0	3916.2	2654.1	2138.6
-30°	23454.2	21065.9	18664.0	16255.8	13809.1	11162.5	8213.8	4993.3	2962.6	2250.1	1994.0
-32.5°	19792.7	17834.7	15728.0	13558.7	11162.5	8477.3	5538.0	3150.4	2398.5	2085.7	1913.3
-35°	16479.8	14710.6	12814.1	10621.5	8213.8	5538.0	3213.4	2521.3	2141.5	1941.2	1850.9
-37.5°	13219.2	11529.2	9553.0	7399.0	4993.3	3150.4	2521.3	2160.2	1955.3	1871.5	1729.7
-40°	9668.7	7982.5	6028.3	3916.2	2962.6	2398.5	2141.5	1955.3	1878.4	1760.0	1577.1
-42.5°	5818.1	4152.2	3120.4	2654.1	2250.1	2085.7	1941.2	1871.5	1760.0	1592.0	1398.9
-45°	2997.1	2631.6	2273.5	2138.6	1994.0	1913.3	1850.9	1729.7	1577.1	1398.9	1209.1
-47.5°	2213.9	2108.7	1993.2	1923.9	1872.1	1800.0	1669.5	1530.9	1364.9	1194.3	1037.1
-50°	1941.5	1904.1	1863.0	1803.0	1695.4	1580.6	1445.6	1297.3	1150.2	1008.0	867.9
-52.5°	1818.2	1741.1	1656.2	1563.8	1451.6	1328.2	1198.7	1077.4	950.2	830.8	711.7
-55°	1556.0	1476.0	1385.5	1286.8	1183.7	1083.4	976.9	871.4	769.4	662.9	571.9
-57.5°	1252.4	1181.1	1108.1	1028.5	942.4	859.0	774.2	684.7	603.3	522.7	441.6
-60°	976.9	916.8	859.0	796.2	728.2	656.3	592.8	525.5	454.7	395.1	333.2
-62.5°	733.9	686.8	639.5	592.8	542.2	487.9	434.6	385.6	333.9	281.5	240.0
-65°	527.9	493.2	454.7	420.7	384.2	345.0	303.2	266.1	231.8	195.9	160.9
-67.5°	358.0	333.2	305.8	278.5	254.6	228.9	201.4	172.3	152.1	135.2	117.5
-70°	224.9	208.9	191.1	171.7	156.8	144.9	132.2	118.6	104.4	92.5	81.7
-72.5°	135.9	128.6	120.5	111.6	101.9	94.0	86.4	78.2	69.6	60.6	52.9
-75°	83.1	78.8	74.0	68.8	63.1	57.0	52.6	48.7	44.7	40.4	35.9
-77.5°	47.6	45.6	43.5	41.1	38.5	35.7	32.7	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	19.5	18.5
-82.5°	18.5	18.1	17.7	17.3	16.8	16.3	15.7	15.1	14.5	13.8	13.1
-85°	11.5	11.3	11.1	10.8	10.6	10.3	10.0	9.7	9.3	9.0	8.6
-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: P1305387 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: EPH-08-640L-40-80-5S-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°	8.2	7.8	7.4	7.0	6.5	6.1	5.6	5.2	4.7	4.2	3.7
82.5°	12.4	11.7	11.1	10.5	9.8	9.1	8.4	7.7	7.0	6.2	5.5
80°	17.6	16.5	15.5	14.4	13.3	12.2	11.2	10.3	9.3	8.3	7.3
77.5°	23.8	22.0	20.2	18.8	17.4	15.9	14.5	13.0	11.6	10.4	9.1
75°	31.3	28.8	26.6	24.3	22.0	19.7	17.9	16.1	14.3	12.4	10.9
72.5°	47.5	41.8	36.0	30.3	27.6	24.8	22.0	19.3	17.2	15.0	12.8
70°	70.4	58.7	50.4	43.5	36.4	29.9	26.7	23.4	20.0	17.5	15.0
67.5°	99.2	86.0	72.4	58.3	48.9	40.7	32.3	27.6	23.8	20.0	17.2
65°	140.4	119.1	97.9	82.2	66.2	52.2	42.9	33.4	27.6	23.4	19.3
62.5°	196.9	157.8	133.6	108.7	88.2	70.2	53.2	42.9	32.3	26.7	22.0
60°	273.6	224.9	174.6	142.3	114.5	90.2	70.2	52.2	40.7	29.9	24.8
57.5°	371.9	299.8	241.7	185.8	145.3	114.5	88.2	66.2	48.9	36.4	27.6
55°	477.9	395.3	315.3	247.4	185.8	142.3	108.7	82.2	58.3	43.5	30.3
52.5°	601.6	497.6	403.1	315.3	241.7	174.6	133.6	97.9	72.4	50.4	36.0
50°	736.2	611.6	497.6	395.3	299.8	224.9	157.8	119.1	86.0	58.7	41.8
47.5°	880.4	736.2	601.6	477.9	371.9	273.6	196.9	140.4	99.2	70.4	47.5
45°	1037.1	867.9	711.7	571.9	441.6	333.2	240.0	160.9	117.5	81.7	52.9
42.5°	1194.3	1008.0	830.8	662.9	522.7	395.1	281.5	195.9	135.2	92.5	60.6
40°	1364.9	1150.2	950.2	769.4	603.3	454.7	333.9	231.8	152.1	104.4	69.6
37.5°	1530.9	1297.3	1077.4	871.4	684.7	525.5	385.6	266.1	172.3	118.6	78.2
35°	1669.5	1445.6	1198.7	976.9	774.2	592.8	434.6	303.2	201.4	132.2	86.4
32.5°	1800.0	1580.6	1328.2	1083.4	859.0	656.3	487.9	345.0	228.9	144.9	94.0
30°	1872.1	1695.4	1451.6	1183.7	942.4	728.2	542.2	384.2	254.6	156.8	101.9
27.5°	1923.9	1803.0	1563.8	1286.8	1028.5	796.2	592.8	420.7	278.5	171.7	111.6
25°	1993.2	1863.0	1656.2	1385.5	1108.1	859.0	639.5	454.7	305.8	191.1	120.5
22.5°	2108.7	1904.1	1741.1	1476.0	1181.1	916.8	686.8	493.2	333.2	208.9	128.6
20°	2213.9	1941.5	1818.2	1556.0	1252.4	976.9	733.9	527.9	358.0	224.9	135.9
17.5°	2342.1	2000.4	1855.8	1619.2	1319.3	1030.5	775.8	558.7	380.0	239.1	142.3
15°	2608.5	2076.7	1882.8	1674.5	1377.9	1077.4	812.5	585.7	399.2	251.5	148.0
12.5°	2836.8	2141.9	1905.9	1721.7	1427.9	1117.3	843.7	608.6	415.5	262.0	152.8
10°	3025.5	2195.8	1924.9	1760.6	1469.0	1150.2	869.3	627.5	429.0	270.7	156.7
7.5°	3173.6	2238.1	1939.8	1791.1	1501.2	1175.9	889.4	642.2	439.5	277.5	159.8
5°	3280.1	2268.4	1950.5	1812.9	1524.3	1194.3	903.8	652.7	447.0	282.3	162.0
2.5°	3344.3	2286.7	1956.9	1826.1	1538.2	1205.4	912.4	659.1	451.5	285.2	163.4
0°	3365.7	2292.8	1959.1	1830.5	1542.8	1209.1	915.3	661.2	453.0	286.2	163.8
-2.5°	3344.3	2286.7	1956.9	1826.1	1538.2	1205.4	912.4	659.1	451.5	285.2	163.4
-5°	3280.1	2268.4	1950.5	1812.9	1524.3	1194.3	903.8	652.7	447.0	282.3	162.0
-7.5°	3173.6	2238.1	1939.8	1791.1	1501.2	1175.9	889.4	642.2	439.5	277.5	159.8
-10°	3025.5	2195.8	1924.9	1760.6	1469.0	1150.2	869.3	627.5	429.0	270.7	156.7
-12.5°	2836.8	2141.9	1905.9	1721.7	1427.9	1117.3	843.7	608.6	415.5	262.0	152.8
-15°	2608.5	2076.7	1882.8	1674.5	1377.9	1077.4	812.5	585.7	399.2	251.5	148.0
-17.5°	2342.1	2000.4	1855.8	1619.2	1319.3	1030.5	775.8	558.7	380.0	239.1	142.3
-20°	2213.9	1941.5	1818.2	1556.0	1252.4	976.9	733.9	527.9	358.0	224.9	135.9



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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°	2108.7	1904.1	1741.1	1476.0	1181.1	916.8	686.8	493.2	333.2	208.9	128.6
-25°	1993.2	1863.0	1656.2	1385.5	1108.1	859.0	639.5	454.7	305.8	191.1	120.5
-27.5°	1923.9	1803.0	1563.8	1286.8	1028.5	796.2	592.8	420.7	278.5	171.7	111.6
-30°	1872.1	1695.4	1451.6	1183.7	942.4	728.2	542.2	384.2	254.6	156.8	101.9
-32.5°	1800.0	1580.6	1328.2	1083.4	859.0	656.3	487.9	345.0	228.9	144.9	94.0
-35°	1669.5	1445.6	1198.7	976.9	774.2	592.8	434.6	303.2	201.4	132.2	86.4
-37.5°	1530.9	1297.3	1077.4	871.4	684.7	525.5	385.6	266.1	172.3	118.6	78.2
-40°	1364.9	1150.2	950.2	769.4	603.3	454.7	333.9	231.8	152.1	104.4	69.6
-42.5°	1194.3	1008.0	830.8	662.9	522.7	395.1	281.5	195.9	135.2	92.5	60.6
-45°	1037.1	867.9	711.7	571.9	441.6	333.2	240.0	160.9	117.5	81.7	52.9
-47.5°	880.4	736.2	601.6	477.9	371.9	273.6	196.9	140.4	99.2	70.4	47.5
-50°	736.2	611.6	497.6	395.3	299.8	224.9	157.8	119.1	86.0	58.7	41.8
-52.5°	601.6	497.6	403.1	315.3	241.7	174.6	133.6	97.9	72.4	50.4	36.0
-55°	477.9	395.3	315.3	247.4	185.8	142.3	108.7	82.2	58.3	43.5	30.3
-57.5°	371.9	299.8	241.7	185.8	145.3	114.5	88.2	66.2	48.9	36.4	27.6
-60°	273.6	224.9	174.6	142.3	114.5	90.2	70.2	52.2	40.7	29.9	24.8
-62.5°	196.9	157.8	133.6	108.7	88.2	70.2	53.2	42.9	32.3	26.7	22.0
-65°	140.4	119.1	97.9	82.2	66.2	52.2	42.9	33.4	27.6	23.4	19.3
-67.5°	99.2	86.0	72.4	58.3	48.9	40.7	32.3	27.6	23.8	20.0	17.2
-70°	70.4	58.7	50.4	43.5	36.4	29.9	26.7	23.4	20.0	17.5	15.0
-72.5°	47.5	41.8	36.0	30.3	27.6	24.8	22.0	19.3	17.2	15.0	12.8
-75°	31.3	28.8	26.6	24.3	22.0	19.7	17.9	16.1	14.3	12.4	10.9
-77.5°	23.8	22.0	20.2	18.8	17.4	15.9	14.5	13.0	11.6	10.4	9.1
-80°	17.6	16.5	15.5	14.4	13.3	12.2	11.2	10.3	9.3	8.3	7.3
-82.5°	12.4	11.7	11.1	10.5	9.8	9.1	8.4	7.7	7.0	6.2	5.5
-85°	8.2	7.8	7.4	7.0	6.5	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°	6.3	5.3	4.2	3.2	2.1	1.1	0.0
77.5°	7.8	6.6	5.3	4.0	2.6	1.3	0.0
75°	9.4	7.8	6.3	4.7	3.2	1.6	0.0
72.5°	10.9	9.1	7.3	5.5	3.7	1.8	0.0
70°	12.4	10.4	8.3	6.2	4.2	2.1	0.0
67.5°	14.3	11.6	9.3	7.0	4.7	2.3	0.0
65°	16.1	13.0	10.3	7.7	5.2	2.6	0.0
62.5°	17.9	14.5	11.2	8.4	5.6	2.8	0.0
60°	19.7	15.9	12.2	9.1	6.1	3.0	0.0
57.5°	22.0	17.4	13.3	9.8	6.5	3.3	0.0
55°	24.3	18.8	14.4	10.5	7.0	3.5	0.0
52.5°	26.6	20.2	15.5	11.1	7.4	3.7	0.0
50°	28.8	22.0	16.5	11.7	7.8	3.9	0.0
47.5°	31.3	23.8	17.6	12.4	8.2	4.1	0.0
45°	35.9	25.5	18.5	13.1	8.6	4.3	0.0
42.5°	40.4	27.1	19.5	13.8	9.0	4.5	0.0
40°	44.7	28.6	20.5	14.5	9.3	4.7	0.0
37.5°	48.7	30.1	21.7	15.1	9.7	4.8	0.0
35°	52.6	32.7	22.8	15.7	10.0	5.0	0.0
32.5°	57.0	35.7	23.8	16.3	10.3	5.1	0.0
30°	63.1	38.5	24.8	16.8	10.6	5.3	0.0
27.5°	68.8	41.1	25.7	17.3	10.8	5.4	0.0
25°	74.0	43.5	26.6	17.7	11.1	5.5	0.0
22.5°	78.8	45.6	27.3	18.1	11.3	5.6	0.0
20°	83.1	47.6	28.0	18.5	11.5	5.7	0.0
17.5°	86.9	49.3	28.6	18.8	11.6	5.8	0.0
15°	90.2	50.9	29.1	19.1	11.8	5.9	0.0
12.5°	93.0	52.2	29.6	19.3	11.9	6.0	0.0
10°	95.4	53.2	29.9	19.5	12.0	6.0	0.0
7.5°	97.2	54.0	30.2	19.7	12.1	6.0	0.0
5°	98.5	54.6	30.4	19.8	12.2	6.1	0.0
2.5°	99.2	55.0	30.6	19.9	12.2	6.1	0.0
0°	99.5	55.1	30.6	19.9	12.2	6.1	0.0
-2.5°	99.2	55.0	30.6	19.9	12.2	6.1	0.0
-5°	98.5	54.6	30.4	19.8	12.2	6.1	0.0
-7.5°	97.2	54.0	30.2	19.7	12.1	6.0	0.0
-10°	95.4	53.2	29.9	19.5	12.0	6.0	0.0
-12.5°	93.0	52.2	29.6	19.3	11.9	6.0	0.0
-15°	90.2	50.9	29.1	19.1	11.8	5.9	0.0
-17.5°	86.9	49.3	28.6	18.8	11.6	5.8	0.0
-20°	83.1	47.6	28.0	18.5	11.5	5.7	0.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	78.8	45.6	27.3	18.1	11.3	5.6	0.0
-25°	74.0	43.5	26.6	17.7	11.1	5.5	0.0
-27.5°	68.8	41.1	25.7	17.3	10.8	5.4	0.0
-30°	63.1	38.5	24.8	16.8	10.6	5.3	0.0
-32.5°	57.0	35.7	23.8	16.3	10.3	5.1	0.0
-35°	52.6	32.7	22.8	15.7	10.0	5.0	0.0
-37.5°	48.7	30.1	21.7	15.1	9.7	4.8	0.0
-40°	44.7	28.6	20.5	14.5	9.3	4.7	0.0
-42.5°	40.4	27.1	19.5	13.8	9.0	4.5	0.0
-45°	35.9	25.5	18.5	13.1	8.6	4.3	0.0
-47.5°	31.3	23.8	17.6	12.4	8.2	4.1	0.0
-50°	28.8	22.0	16.5	11.7	7.8	3.9	0.0
-52.5°	26.6	20.2	15.5	11.1	7.4	3.7	0.0
-55°	24.3	18.8	14.4	10.5	7.0	3.5	0.0
-57.5°	22.0	17.4	13.3	9.8	6.5	3.3	0.0
-60°	19.7	15.9	12.2	9.1	6.1	3.0	0.0
-62.5°	17.9	14.5	11.2	8.4	5.6	2.8	0.0
-65°	16.1	13.0	10.3	7.7	5.2	2.6	0.0
-67.5°	14.3	11.6	9.3	7.0	4.7	2.3	0.0
-70°	12.4	10.4	8.3	6.2	4.2	2.1	0.0
-72.5°	10.9	9.1	7.3	5.5	3.7	1.8	0.0
-75°	9.4	7.8	6.3	4.7	3.2	1.6	0.0
-77.5°	7.8	6.6	5.3	4.0	2.6	1.3	0.0
-80°	6.3	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)