

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: P731341 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-3S-VHE**

Issue Date: 11/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P731341 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-LS-08-0320N-40-80-3S-VHE  
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE  
(8) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE WITH ANODIZED CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

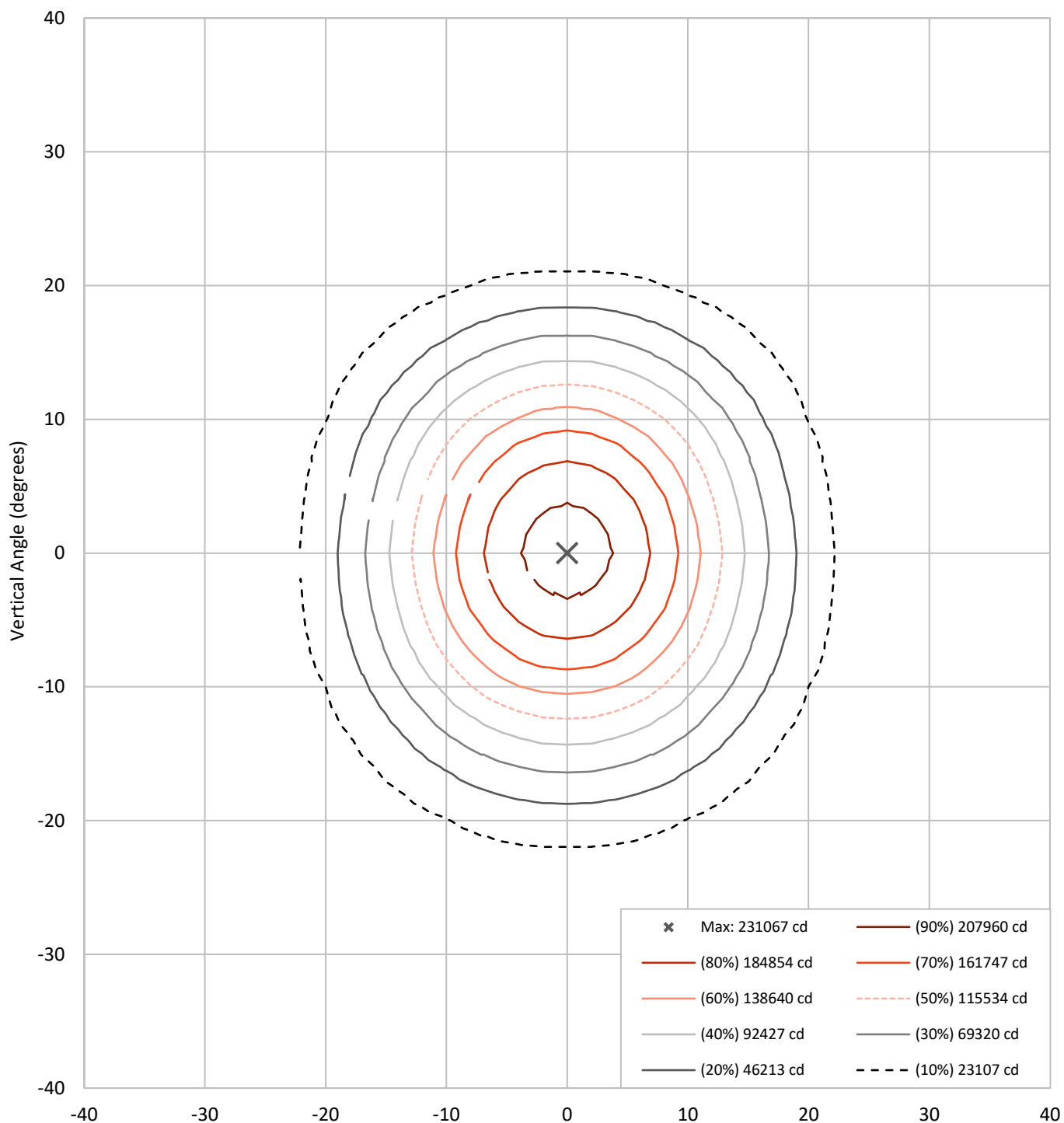
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	51913.9 lumens	Max Intensity:	231067 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	150.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	25.7°H x 24.9°V	Field Angle (10%):	44.2°H x 43°V
Beam Lumens:	24838.6 lumens	Field Lumens:	43523.4 lumens
Beam Efficiency:	47.8%	Field Efficiency:	83.8%

Input Watts (W): 345.8  
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



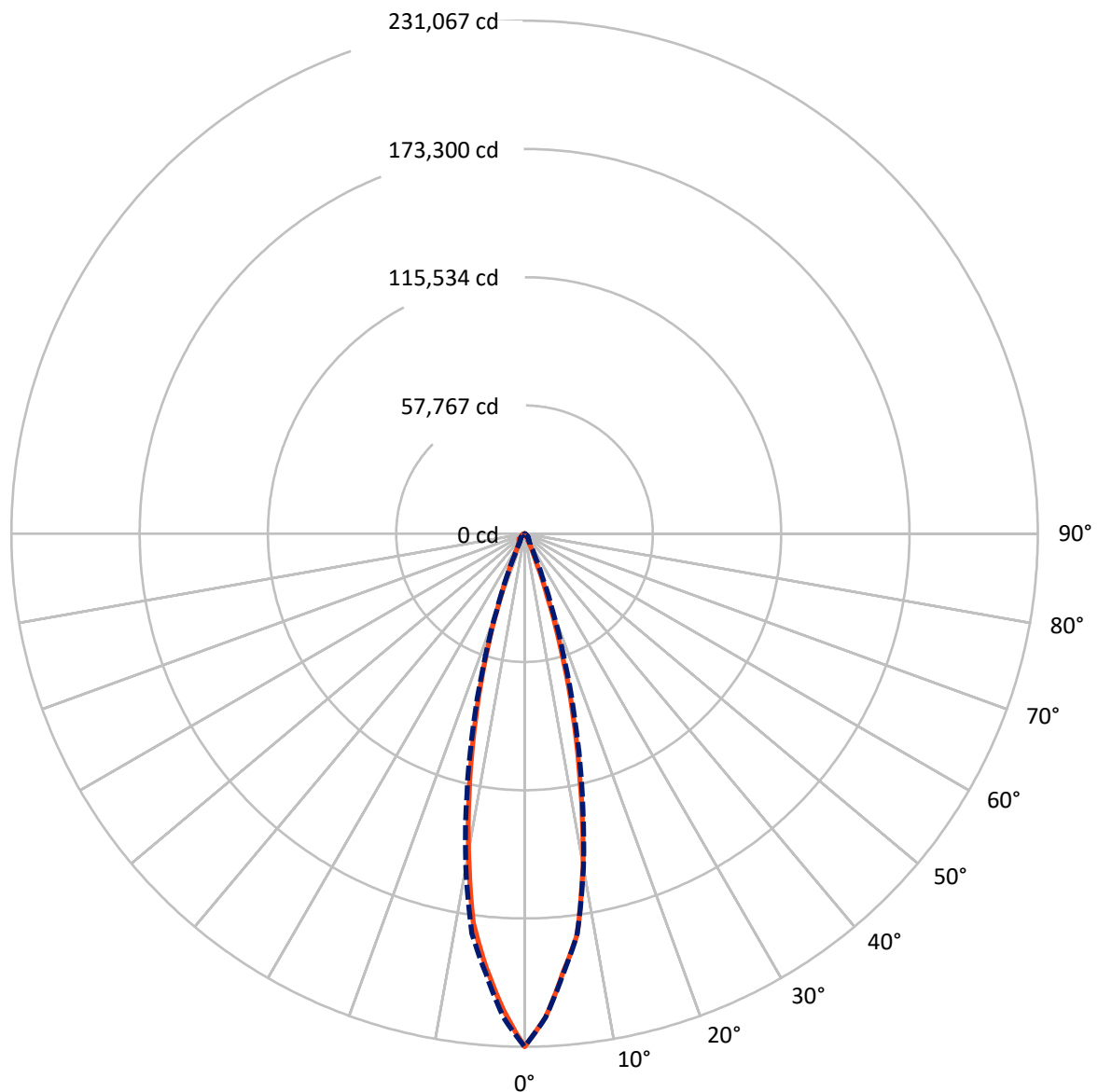
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## Lumen Table

Vertical Angle (degrees)	Horizontal Angle (degrees)															
	-90		-60		-30		0		30		60		90			
90	0.1		0.4		0.8		1.2		1.5		1.2		0.8		0.4	
80	0.1		0.4		0.8		1.2		1.5		1.2		0.8		0.4	
70	0.2	0.1	0.1	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.1	0.1	0.2
60		0.2	0.5	0.7	0.6	0.6	0.7	0.9	0.9	0.7	0.6	0.6	0.7	0.5	0.2	
50	0.5	0.7	1.7	3.6	6.7	11.4	16.3	18.5	18.5	16.3	11.4	6.7	3.6	1.7	0.7	0.5
40		1.8	5.5	11.4	21.4	35.5	42.9	50.3	50.3	42.9	35.5	21.4	11.4	5.5	1.8	
30	1.2	3.0	9.3	20.3	45.5	58.6	126.5	276.6	276.6	126.5	58.6	45.5	20.3	9.3	3.0	1.2
20		4.0	12.2	33.0	65.3	158.0	951.5	2300.4	2300.4	951.5	158.0	65.3	33.0	12.2	4.0	
10	1.7	4.8	14.1	42.1	79.1	350.6	2311.0	5263.9	5263.9	2311.0	350.6	79.1	42.1	14.1	4.8	1.7
0		5.3	15.5	44.5	87.7	361.4	2325.0	5209.2	5209.2	2325.0	361.4	87.7	44.5	15.5	5.3	
-10	1.9	5.4	16.0	43.0	87.4	193.7	992.1	2321.8	2321.8	992.1	193.7	87.4	43.0	16.0	5.4	1.9
-20		4.9	15.3	34.0	78.6	118.7	205.7	391.1	391.1	205.7	118.7	78.6	34.0	15.3	4.9	
-30	1.6	4.2	13.1	27.2	54.3	94.9	117.2	130.1	130.1	117.2	94.9	54.3	27.2	13.1	4.2	1.6
-40		3.3	10.0	21.1	34.4	50.7	74.4	92.7	92.7	74.4	50.7	34.4	21.1	10.0	3.3	
-50	1.3	2.2	6.5	13.8	23.1	31.5	38.3	42.4	42.4	38.3	31.5	23.1	13.8	6.5	2.2	1.3
-60		1.6	3.4	7.1	12.0	16.6	21.0	23.6	23.6	21.0	16.6	12.0	7.1	3.4	1.6	
-70	0.9	5.7	13.2	21.4	26.3	21.4	13.2	5.7	0.9	5.7	13.2	21.4	26.3	21.4	13.2	0.9
-80		5.7	13.2	21.4	26.3	21.4	13.2	5.7	0.9	5.7	13.2	21.4	26.3	21.4	13.2	
-90	0.1		0.4		0.8		1.2		1.5		1.2		0.8		0.4	

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## Luminous Intensity Polar Plot

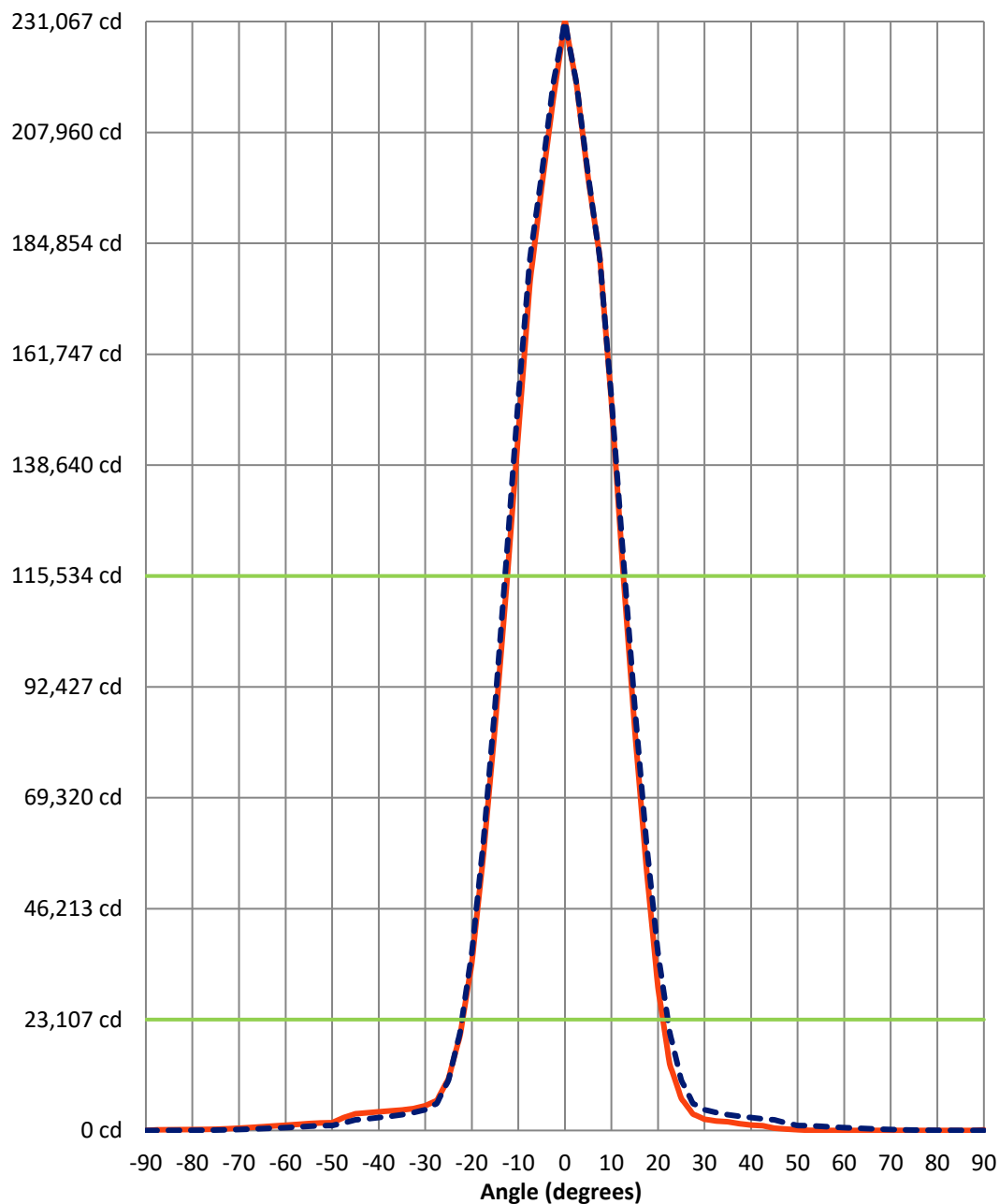


— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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## Luminous Intensity Plot



**Beam:**  
H Angle: 25.7°  
V Angle: 24.9°  
Lumens: 24838.6  
Efficiency: 47.8%

**Field:**  
H Angle: 44.2°  
V Angle: 43°  
Lumens: 43523.4  
Efficiency: 83.8%

**Spill:**  
Lumens: 8390.5  
Efficiency: 16.2%

— 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°	1.9	7.7	13.6	21.9	30.3	37.4	44.5	49.8	55.1	59.4	63.7
87.5°	1.9	2.0	2.0	2.1	2.1	2.1	2.1	1.8	1.6	1.6	1.5
85°	1.9	2.2	2.1	2.2	2.3	2.3	2.2	2.1	2.1	2.0	1.8
82.5°	1.9	2.3	2.2	2.4	2.5	2.5	2.4	2.4	2.5	2.3	2.1
80°	1.9	2.5	2.3	2.5	2.7	2.7	2.6	2.7	2.7	2.6	2.4
77.5°	1.9	2.6	2.5	2.7	2.9	2.9	2.9	3.0	3.0	2.8	2.6
75°	1.9	2.8	2.6	2.8	3.2	3.3	3.2	3.3	3.2	3.2	2.9
72.5°	1.9	2.9	2.7	3.0	3.5	3.6	3.6	3.6	3.7	3.6	3.3
70°	1.9	3.1	2.9	3.2	3.8	4.0	4.0	4.3	4.3	4.0	4.1
67.5°	1.9	3.2	3.1	3.5	4.2	4.4	4.8	5.0	4.9	5.1	5.1
65°	1.9	3.4	3.3	3.9	4.6	5.0	5.6	5.7	6.2	6.3	6.3
62.5°	1.9	3.6	3.5	4.3	5.0	5.8	6.4	6.9	7.5	7.6	7.6
60°	1.9	3.7	3.7	4.7	5.4	6.7	7.3	8.3	9.0	9.2	9.0
57.5°	1.9	3.9	4.1	5.0	6.2	7.6	8.7	9.8	11.0	11.1	12.3
55°	1.9	4.0	4.5	5.4	7.1	8.5	10.1	11.4	13.2	13.9	16.6
52.5°	1.9	4.2	5.0	5.8	8.0	9.5	11.6	13.7	15.7	19.2	21.3
50°	1.9	4.4	5.4	6.3	8.9	10.9	13.1	16.2	19.1	24.9	30.0
47.5°	1.9	4.5	5.9	6.7	9.8	12.3	14.7	18.7	24.9	31.1	40.4
45°	1.9	4.7	6.3	7.5	10.8	13.8	17.1	21.4	31.0	41.7	51.9
42.5°	1.9	4.9	6.8	8.2	11.7	15.4	19.4	25.8	37.3	53.2	69.5
40°	1.9	5.1	7.3	9.1	12.8	17.0	22.0	31.5	45.3	65.4	89.4
37.5°	1.9	5.2	7.8	10.1	14.1	18.6	24.8	37.3	56.5	80.0	110.7
35°	1.9	5.4	8.3	11.1	15.3	20.6	27.6	43.2	68.1	98.7	134.6
32.5°	1.9	5.6	8.8	12.2	16.6	22.9	31.2	49.4	80.2	117.6	158.3
30°	1.9	5.7	9.3	13.2	17.8	25.2	36.3	56.6	92.7	136.5	180.4
27.5°	1.9	5.9	9.8	14.2	19.4	27.5	41.4	66.1	105.3	155.4	201.0
25°	1.9	6.1	10.3	15.2	21.0	29.7	46.3	75.0	118.1	173.1	220.1
22.5°	1.9	6.2	10.8	16.2	22.6	32.0	51.2	83.4	129.8	185.0	241.0
20°	1.9	6.4	11.3	17.2	24.2	34.3	55.9	91.2	140.4	196.2	257.8
17.5°	1.9	6.5	11.8	18.2	25.7	36.6	60.3	98.4	149.8	206.4	273.7
15°	1.9	6.7	12.3	19.1	27.1	38.7	64.3	104.9	158.2	215.7	288.6
12.5°	1.9	6.8	12.8	20.1	28.5	40.7	68.0	110.7	166.7	224.0	302.6
10°	1.9	6.9	13.2	21.0	29.9	42.6	71.4	115.9	175.4	236.4	317.9
7.5°	1.9	7.1	13.6	21.8	31.2	44.4	74.5	120.5	183.5	248.9	337.0
5°	1.9	7.2	14.0	22.6	32.4	46.0	77.3	124.5	190.7	260.6	354.6
2.5°	1.9	7.3	14.4	23.4	33.5	47.5	79.7	127.8	197.0	271.3	370.7
0°	1.9	7.4	14.8	24.1	34.6	48.9	81.7	130.5	202.3	280.8	384.8
-2.5°	1.9	7.7	15.5	25.2	36.1	50.9	84.3	134.9	208.3	287.3	391.4
-5°	1.9	8.0	16.1	26.2	37.6	52.8	86.5	138.6	213.0	292.3	395.8
-7.5°	1.9	8.3	16.7	27.1	39.0	54.6	88.4	141.5	216.5	296.0	398.2
-10°	1.9	8.6	17.3	28.0	40.2	56.2	89.7	143.5	218.7	298.2	398.5
-12.5°	1.9	8.8	17.8	28.9	41.4	57.6	90.7	144.6	219.5	298.9	397.6
-15°	1.9	9.1	18.3	29.6	42.5	58.8	91.2	144.6	218.2	297.0	394.6
-17.5°	1.9	9.3	18.8	30.3	43.4	59.9	91.2	143.4	214.6	293.5	388.8
-20°	1.9	9.5	19.2	30.9	44.2	60.8	90.9	141.0	209.8	288.3	380.1

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CATALOG NUMBER: EPH-LS-08-0320N-40-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	1.9	9.7	19.5	31.4	45.0	61.5	90.2	137.7	203.7	281.4	368.7
-25°	1.9	9.9	19.9	31.9	45.6	62.1	89.0	133.5	196.4	272.8	356.7
-27.5°	1.9	10.0	20.2	32.3	46.0	62.6	87.4	128.5	187.8	265.0	348.1
-30°	1.9	10.2	20.4	32.6	46.4	63.0	85.2	122.6	180.8	256.4	337.8
-32.5°	1.9	10.3	20.6	32.8	46.8	63.1	82.6	118.8	174.9	246.4	325.5
-35°	1.9	10.4	20.8	32.9	47.2	63.1	81.7	115.5	167.4	235.1	311.1
-37.5°	1.9	10.5	20.9	32.9	47.4	63.0	81.5	111.8	158.3	222.3	295.9
-40°	1.9	10.5	20.9	32.9	47.5	63.1	81.0	107.3	147.7	209.9	278.8
-42.5°	1.9	10.6	21.0	32.8	47.5	63.1	80.3	102.1	139.7	195.0	259.0
-45°	1.9	10.6	20.9	32.8	47.4	62.9	79.3	98.1	132.8	178.4	237.2
-47.5°	1.9	10.6	20.9	32.6	47.2	62.6	78.0	96.5	124.9	160.6	217.0
-50°	1.9	10.6	20.7	32.6	46.9	62.1	77.1	94.6	115.5	150.0	195.1
-52.5°	1.9	10.5	20.6	32.4	46.5	61.4	76.1	92.4	110.4	138.5	172.5
-55°	1.9	10.5	20.3	32.2	45.9	60.5	74.9	89.9	107.1	126.3	158.1
-57.5°	1.9	10.4	20.1	31.9	45.2	59.5	73.5	88.1	103.4	120.2	143.0
-60°	1.9	10.3	19.8	31.6	44.4	58.2	71.9	86.0	99.7	115.6	130.5
-62.5°	1.9	10.2	19.5	31.1	43.7	56.9	70.2	83.6	96.7	110.6	124.3
-65°	1.9	10.0	19.1	30.6	42.9	55.4	68.4	81.0	93.5	106.1	117.7
-67.5°	1.9	9.9	18.8	29.9	42.0	53.9	66.4	78.3	89.9	101.6	112.1
-70°	1.9	9.7	18.3	29.3	41.0	52.4	64.2	75.5	86.5	97.0	107.0
-72.5°	1.9	9.5	17.9	28.6	39.9	50.7	61.9	72.5	82.9	92.4	101.7
-75°	1.9	9.3	17.3	27.8	38.7	48.9	59.5	69.3	79.1	87.7	96.1
-77.5°	1.9	9.1	16.8	27.0	37.5	47.0	56.9	65.9	75.0	82.7	90.2
-80°	1.9	8.8	16.2	26.1	36.2	45.1	54.1	62.3	70.6	77.6	84.4
-82.5°	1.9	8.6	15.6	25.1	34.8	43.3	51.8	58.9	66.2	72.3	78.4
-85°	1.9	8.3	15.0	24.1	33.4	41.4	49.5	56.0	62.5	67.8	72.9
-87.5°	1.9	8.0	14.3	23.1	31.9	39.4	47.0	52.9	58.9	63.6	68.4
-90°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.6	1.2	1.2	1.2



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CATALOG NUMBER: EPH-LS-08-0320N-40-80-3S-VHE

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	67.1	70.5	73.6	76.7	79.5	82.3	86.0	89.7	92.5	95.3	98.1
87.5°	1.5	1.5	1.6	1.6	1.4	1.2	1.2	1.2	1.1	1.1	1.1
85°	1.8	1.9	1.9	1.9	1.6	1.4	1.4	1.5	1.5	1.6	1.4
82.5°	2.1	2.2	2.1	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.7
80°	2.4	2.5	2.3	2.1	2.2	2.2	2.1	1.9	1.9	1.9	2.0
77.5°	2.6	2.5	2.4	2.4	2.5	2.6	2.6	2.6	2.6	2.5	2.5
75°	2.8	2.6	2.7	2.6	2.6	2.9	3.1	3.1	3.0	2.9	2.9
72.5°	3.2	3.3	3.1	2.8	2.8	3.1	3.1	3.1	3.9	5.1	6.2
70°	4.0	4.0	3.8	3.5	3.4	3.6	4.7	6.4	8.3	10.1	11.7
67.5°	4.9	4.8	4.5	4.5	5.1	6.2	7.5	11.8	16.4	18.0	18.2
65°	5.8	5.6	5.7	6.4	7.3	10.4	14.4	19.7	24.0	23.7	21.9
62.5°	6.8	7.7	7.7	9.2	12.3	16.0	20.7	25.1	29.0	27.2	22.6
60°	9.8	10.3	11.7	14.6	17.8	21.5	26.3	27.7	28.7	28.0	22.0
57.5°	13.5	15.1	18.0	20.7	24.4	26.1	26.5	26.2	27.9	26.8	20.7
55°	18.9	21.6	25.6	28.3	30.5	27.3	26.9	28.6	28.4	26.0	20.1
52.5°	27.0	29.9	35.4	37.4	35.6	33.1	32.2	33.7	32.5	29.2	25.3
50°	35.8	42.7	46.3	48.0	44.8	44.5	41.2	43.2	45.0	43.4	48.9
47.5°	49.1	57.5	60.2	63.1	61.6	67.3	64.3	75.0	75.7	106.8	116.1
45°	65.3	76.6	79.7	87.2	95.4	105.3	122.3	126.8	178.0	209.2	246.1
42.5°	84.7	98.9	111.7	116.0	152.7	172.7	198.3	245.9	293.5	332.7	360.1
40°	109.8	124.2	151.2	183.5	222.5	256.4	305.4	360.5	405.9	436.0	450.1
37.5°	137.4	165.6	201.0	253.1	300.6	343.7	406.3	461.4	501.7	529.5	533.0
35°	167.0	207.1	265.0	317.8	366.9	425.2	487.4	550.7	583.8	595.8	646.9
32.5°	201.5	247.5	316.1	373.4	428.7	494.9	560.9	615.7	644.8	678.7	851.7
30°	234.2	289.9	358.1	419.1	487.6	563.0	626.1	677.7	697.9	875.6	1155.5
27.5°	260.3	326.7	395.2	468.7	547.3	633.6	697.2	730.7	846.0	1109.0	1513.7
25°	284.6	356.0	432.6	524.5	613.9	699.3	764.1	785.5	1025.2	1471.3	1772.9
22.5°	308.4	384.6	473.9	583.4	675.0	754.7	808.9	938.7	1282.3	1847.2	2003.8
20°	332.1	418.5	518.8	628.0	729.0	803.4	845.0	1100.3	1594.4	1991.6	2167.8
17.5°	355.1	452.7	559.9	665.5	767.3	842.7	896.5	1236.6	1841.6	2121.2	2294.6
15°	377.4	481.8	591.7	700.7	804.6	877.2	1023.2	1436.5	1995.1	2278.0	2461.1
12.5°	398.8	506.7	615.1	731.3	840.6	910.7	1154.6	1678.8	2155.4	2432.4	2630.4
10°	418.9	527.6	635.5	759.1	874.1	939.9	1277.9	1905.1	2302.0	2542.4	2721.8
7.5°	439.3	546.4	653.9	784.3	905.7	966.4	1382.2	2029.0	2359.5	2614.9	2786.3
5°	457.3	563.9	675.7	815.3	936.3	990.8	1470.2	2112.4	2377.7	2651.3	2832.7
2.5°	472.7	578.4	694.8	844.3	963.9	1012.9	1530.2	2175.9	2399.8	2677.1	2890.4
0°	485.6	590.1	710.8	869.1	987.3	1033.0	1570.0	2210.2	2413.7	2688.4	2954.3
-2.5°	495.0	605.7	736.3	890.2	1006.5	1054.0	1582.5	2224.9	2434.0	2750.8	3098.0
-5°	502.0	618.2	757.7	906.9	1022.1	1073.3	1573.5	2211.2	2458.2	2808.4	3189.2
-7.5°	506.4	627.2	774.2	919.4	1035.1	1095.1	1546.7	2195.4	2534.0	2880.7	3235.1
-10°	508.4	631.9	776.7	924.1	1045.6	1116.9	1500.8	2142.1	2588.7	2908.3	3238.9
-12.5°	510.2	632.8	773.7	923.3	1052.1	1136.9	1443.2	2078.1	2639.2	2918.7	3215.5
-15°	508.6	630.8	766.8	917.6	1060.4	1162.1	1369.4	1959.4	2661.7	2907.8	3171.5
-17.5°	503.5	626.0	757.4	910.2	1065.7	1185.6	1272.7	1776.5	2540.7	2874.3	3137.9
-20°	494.8	617.3	743.9	896.0	1062.8	1195.8	1270.3	1642.6	2287.2	2808.3	3088.1

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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°	483.2	604.9	727.8	877.2	1046.0	1191.6	1287.9	1495.1	1999.9	2711.7	3012.9
-25°	469.6	589.1	711.3	856.9	1022.7	1183.6	1297.7	1359.1	1762.5	2384.2	2893.6
-27.5°	454.0	570.4	692.5	829.8	992.2	1159.8	1281.8	1362.9	1569.3	2009.8	2712.3
-30°	435.5	548.7	668.1	798.4	954.9	1114.8	1254.8	1358.0	1418.3	1754.3	2319.0
-32.5°	414.6	523.8	640.4	768.3	912.7	1066.5	1214.4	1326.0	1408.7	1518.7	1948.9
-35°	394.6	498.3	609.6	734.4	867.5	1011.9	1150.8	1282.5	1386.2	1457.0	1631.9
-37.5°	377.0	470.5	577.5	697.6	825.8	949.4	1082.0	1217.8	1336.6	1434.6	1496.5
-40°	356.8	440.5	544.3	657.8	772.0	886.1	1010.1	1139.7	1270.6	1378.2	1472.6
-42.5°	334.2	415.3	508.2	611.5	716.5	824.3	934.6	1057.4	1180.8	1303.5	1403.0
-45°	309.1	387.1	469.6	562.6	657.8	759.5	864.0	970.1	1086.8	1202.6	1311.5
-47.5°	280.9	355.8	434.5	510.4	598.8	692.1	789.7	889.8	989.7	1096.0	1201.2
-50°	251.4	321.0	393.6	463.1	538.7	623.6	713.2	806.4	900.6	989.8	1082.4
-52.5°	224.2	283.1	349.5	416.2	482.5	554.7	635.7	719.8	807.0	893.9	972.1
-55°	194.7	247.7	302.9	365.8	429.2	491.7	557.4	633.6	707.6	787.5	864.3
-57.5°	172.7	211.7	260.1	312.3	371.7	432.1	490.3	547.7	612.2	679.0	746.9
-60°	155.1	182.5	219.5	264.0	310.7	366.5	423.7	476.7	525.4	575.1	636.6
-62.5°	138.8	161.3	187.1	218.1	258.7	300.1	349.4	399.9	447.2	492.7	538.4
-65°	131.0	142.8	162.2	185.3	208.6	243.9	281.6	320.3	363.7	405.4	448.0
-67.5°	122.7	133.9	144.6	157.2	178.2	198.8	219.2	253.2	287.2	317.9	348.8
-70°	116.3	125.1	134.8	144.2	153.6	165.7	184.3	203.3	221.7	242.1	268.0
-72.5°	110.1	117.9	125.7	133.3	141.9	150.5	159.4	168.7	182.2	198.0	212.1
-75°	103.6	110.5	117.3	124.1	131.2	138.4	145.9	154.1	162.5	171.0	178.5
-77.5°	97.1	103.5	109.3	115.1	121.1	127.6	134.3	141.0	147.9	154.8	160.8
-80°	90.4	96.4	101.6	106.6	111.8	117.2	122.9	128.7	134.4	140.3	145.4
-82.5°	83.6	88.7	93.3	97.9	102.4	106.8	111.8	116.8	121.8	126.8	131.2
-85°	77.0	80.9	84.9	88.8	92.8	96.7	101.1	105.5	109.7	113.9	117.6
-87.5°	72.1	75.7	79.1	82.3	85.5	88.6	92.4	96.2	99.5	102.9	105.9
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6	0.6

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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	100.8	102.7	104.5	106.1	107.6	109.8	112.0	115.1	118.1	121.9	125.6
87.5°	1.1	1.1	1.1	0.9	0.6	0.6	0.6	0.6	0.6	0.9	1.2
85°	1.2	1.2	1.2	1.4	1.6	1.7	1.7	1.8	1.8	1.9	1.9
82.5°	1.5	1.6	1.6	1.8	1.9	1.9	1.9	1.9	1.9	2.2	2.5
80°	2.1	2.1	2.2	2.2	2.3	2.1	1.9	1.9	1.9	2.2	2.5
77.5°	2.6	2.6	2.5	2.4	2.2	2.0	1.9	1.9	1.9	1.9	1.9
75°	3.0	3.1	3.3	3.5	3.8	3.8	3.6	3.6	3.8	3.7	3.6
72.5°	6.8	7.0	7.0	7.8	8.6	8.9	9.1	9.7	10.4	11.4	12.4
70°	13.2	14.6	15.2	15.3	14.7	14.3	14.0	13.9	14.1	14.8	15.6
67.5°	19.1	19.7	19.5	19.2	18.1	16.7	15.1	14.3	14.6	15.3	16.3
65°	21.7	20.0	18.7	18.2	17.2	15.5	13.1	11.5	11.2	10.9	10.8
62.5°	19.5	16.4	15.0	14.1	12.7	11.2	9.0	7.3	6.7	6.3	6.2
60°	17.0	13.2	10.9	9.8	8.1	6.3	5.2	4.0	3.6	3.3	3.4
57.5°	14.8	10.9	8.2	7.7	6.3	4.9	3.9	2.9	2.7	2.5	2.6
55°	15.2	13.2	11.1	10.0	8.3	7.5	6.6	6.0	5.5	5.6	6.0
52.5°	21.4	23.0	20.3	19.6	24.3	24.4	20.2	26.8	30.7	33.8	34.6
50°	55.4	55.0	73.1	70.1	86.7	100.4	101.0	109.3	125.1	135.9	141.8
47.5°	147.1	163.6	184.7	206.9	224.2	245.8	267.6	284.0	288.0	288.4	291.3
45°	277.0	300.5	332.2	355.5	388.2	408.4	425.2	440.4	475.4	507.7	545.3
42.5°	386.7	412.5	445.4	492.6	527.1	619.2	760.1	794.7	799.7	828.4	870.0
40°	473.4	507.2	580.2	683.7	904.5	1102.4	1138.0	1167.8	1180.9	1165.0	1193.3
37.5°	578.3	657.5	821.9	1105.1	1209.7	1263.6	1301.5	1324.3	1351.9	1377.5	1391.4
35°	752.5	973.1	1117.1	1268.5	1336.9	1364.2	1392.0	1420.0	1441.8	1470.1	1492.7
32.5°	1110.0	1355.6	1370.1	1407.5	1443.1	1478.6	1504.6	1531.3	1554.5	1591.2	1668.1
30°	1470.2	1523.8	1536.8	1540.2	1572.7	1615.3	1637.9	1691.8	1764.6	1848.2	2025.9
27.5°	1662.0	1698.8	1706.4	1710.1	1725.3	1775.6	1868.9	1942.6	2117.4	2329.5	2786.2
25°	1895.5	1921.6	1949.4	1948.2	1971.2	2060.4	2242.9	2398.4	2988.8	3541.3	4731.7
22.5°	2118.2	2197.4	2236.9	2289.8	2368.0	2530.3	2850.5	3749.9	5253.7	7172.7	9561.8
20°	2272.9	2379.6	2485.8	2633.5	2822.4	3159.2	4159.5	6850.9	10065.0	14728.9	18640.6
17.5°	2429.1	2549.5	2737.5	2965.3	3282.5	4413.5	7346.0	11915.9	18516.5	26796.3	34061.0
15°	2632.8	2775.7	3027.3	3352.4	4239.0	6653.2	11545.2	19860.6	29894.6	41533.7	53743.0
12.5°	2771.4	2968.3	3267.4	3687.4	5142.7	9664.1	17540.8	28940.2	42750.4	57416.0	76877.8
10°	2873.9	3109.4	3515.7	4386.3	7025.2	12987.6	22452.8	36679.1	55612.5	77963.9	100214.6
7.5°	2959.9	3277.1	3787.2	4884.2	8649.4	16166.5	28231.7	45523.2	67924.6	94856.9	120732.6
5°	3037.2	3457.8	4048.4	5420.9	10104.7	18468.1	32074.8	52128.0	78069.1	107483.7	136052.2
2.5°	3139.5	3626.9	4217.8	5568.6	10687.2	19743.4	35120.0	57461.3	85312.1	116254.3	147336.9
0°	3281.6	3736.9	4321.4	5663.1	10506.0	20542.5	36986.3	60137.9	88486.3	119938.1	152538.6
-2.5°	3393.3	3800.2	4381.8	5586.9	10417.4	20166.7	36144.0	58577.7	85378.7	115770.3	148289.7
-5°	3465.4	3845.7	4408.3	5615.4	10193.9	18730.4	33656.3	54489.7	79050.5	106484.7	136555.4
-7.5°	3507.6	3862.3	4380.8	5436.4	9178.5	16773.6	29228.2	46954.7	68987.7	94373.8	119225.1
-10°	3532.9	3851.5	4323.4	5183.1	7720.4	13631.6	23075.0	38098.6	57189.0	77644.8	97972.3
-12.5°	3542.5	3828.8	4242.5	4820.3	6190.0	10671.8	18368.5	29030.8	43201.8	59981.8	77893.7
-15°	3523.9	3795.8	4164.3	4664.6	5575.9	8000.2	12817.3	20068.8	30631.4	43442.9	56422.8
-17.5°	3454.7	3761.6	4048.6	4432.7	4969.0	6112.3	9044.1	13698.6	20139.9	28608.2	36096.9
-20°	3363.0	3697.2	3942.9	4282.4	4703.5	5226.8	6167.0	9007.7	12619.5	17522.1	22409.7

REPORT NUMBER: P731341 (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°
-22.5°	3281.3	3587.1	3896.0	4129.0	4458.9	4802.9	5227.5	6040.1	7854.9	10302.5	13401.0
-25°	3206.0	3485.9	3802.9	4054.9	4241.0	4484.1	4750.1	5034.8	5651.3	6229.3	7724.1
-27.5°	3099.9	3389.9	3664.8	3933.8	4113.1	4223.4	4404.7	4581.7	4839.8	5069.4	5508.4
-30°	2976.6	3260.3	3521.9	3766.2	3949.9	4066.0	4155.9	4277.5	4414.2	4553.2	4741.8
-32.5°	2536.9	3108.0	3351.5	3572.1	3761.6	3898.1	3993.2	4073.1	4152.0	4241.0	4340.4
-35°	2055.3	2619.3	3168.9	3340.9	3519.9	3700.6	3841.7	3917.1	3985.8	4048.1	4108.9
-37.5°	1671.0	2068.9	2562.2	3031.0	3248.5	3431.0	3600.6	3732.3	3828.6	3887.0	3941.7
-40°	1520.7	1621.5	2000.8	2386.8	2758.0	3095.1	3267.6	3462.3	3620.5	3706.3	3765.9
-42.5°	1484.7	1531.0	1566.4	1811.0	2106.3	2390.4	2705.0	3017.2	3262.1	3425.4	3546.9
-45°	1405.9	1472.6	1525.4	1547.2	1560.6	1767.7	2011.3	2249.7	2524.8	2809.0	3067.0
-47.5°	1294.3	1381.0	1440.7	1487.3	1515.3	1524.1	1541.2	1594.6	1794.4	2004.4	2204.4
-50°	1169.9	1249.3	1320.8	1385.8	1424.5	1455.8	1485.8	1514.5	1538.9	1569.6	1597.3
-52.5°	1044.5	1117.3	1181.6	1238.7	1289.9	1339.3	1386.9	1422.4	1457.1	1494.4	1524.7
-55°	932.9	991.9	1045.8	1095.9	1142.1	1183.8	1226.8	1272.8	1320.3	1366.7	1402.8
-57.5°	813.6	870.0	921.1	963.5	1000.7	1031.8	1071.3	1114.3	1159.0	1200.4	1231.9
-60°	693.2	743.1	789.8	830.9	866.2	895.2	931.7	968.1	1008.0	1043.4	1071.4
-62.5°	578.9	621.0	660.6	696.5	728.6	758.1	790.4	823.0	860.4	893.4	920.2
-65°	483.9	516.5	543.6	569.1	589.0	614.4	645.8	675.8	708.4	736.9	760.7
-67.5°	381.0	411.1	435.9	458.2	475.6	493.8	517.0	540.9	566.3	589.0	608.9
-70°	291.1	311.4	327.5	344.1	362.0	379.3	397.9	418.3	439.6	458.3	474.8
-72.5°	224.5	234.5	244.0	257.5	269.6	281.6	293.3	308.0	323.8	338.0	350.8
-75°	185.5	191.7	198.9	205.3	210.9	217.4	223.8	233.3	243.7	253.5	262.6
-77.5°	166.5	171.0	174.5	177.5	180.1	184.1	188.3	195.3	202.9	211.2	219.5
-80°	150.3	153.7	156.7	159.4	161.7	165.0	168.3	174.5	181.0	188.0	195.0
-82.5°	135.3	138.0	140.5	142.9	145.1	147.9	150.6	156.1	161.7	167.5	173.3
-85°	121.2	123.5	125.7	127.7	129.6	131.9	134.2	138.9	143.6	148.5	153.4
-87.5°	108.9	111.0	113.1	114.8	116.6	118.6	120.6	124.8	128.9	133.0	137.1
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

REPORT NUMBER: P731341 (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°
90°	125.9	126.2	126.5	126.8	126.5	126.2	125.9	125.6	121.9	118.1	115.1
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6	0.6
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8
82.5°	2.2	1.9	2.2	2.5	2.2	1.9	2.2	2.5	2.2	1.9	1.9
80°	2.2	1.9	2.2	2.5	2.2	1.9	2.2	2.5	2.2	1.9	1.9
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	3.1	2.5	2.2	1.9	2.2	2.5	3.1	3.6	3.7	3.8	3.6
72.5°	12.7	12.7	12.9	13.0	12.9	12.7	12.7	12.4	11.4	10.4	9.7
70°	16.1	16.5	16.7	16.7	16.7	16.5	16.1	15.6	14.8	14.1	13.9
67.5°	16.5	16.2	15.8	15.5	15.8	16.2	16.5	16.3	15.3	14.6	14.3
65°	10.3	9.6	8.5	7.4	8.5	9.6	10.3	10.8	10.9	11.2	11.5
62.5°	6.0	5.8	5.6	5.6	5.6	5.8	6.0	6.2	6.3	6.7	7.3
60°	3.5	3.7	3.7	3.7	3.7	3.7	3.5	3.4	3.3	3.6	4.0
57.5°	2.7	3.0	3.3	3.7	3.3	3.0	2.7	2.6	2.5	2.7	2.9
55°	6.3	7.0	7.3	7.4	7.3	7.0	6.3	6.0	5.6	5.5	6.0
52.5°	33.4	31.7	30.2	29.1	30.2	31.7	33.4	34.6	33.8	30.7	26.8
50°	144.4	148.1	149.9	149.7	149.9	148.1	144.4	141.8	135.9	125.1	109.3
47.5°	297.4	299.5	297.8	293.2	297.8	299.5	297.4	291.3	288.4	288.0	284.0
45°	591.3	565.6	520.1	480.0	520.1	565.6	591.3	545.3	507.7	475.4	440.4
42.5°	925.5	956.2	979.1	989.7	979.1	956.2	925.5	870.0	828.4	799.7	794.7
40°	1161.4	1128.7	1122.1	1127.1	1122.1	1128.7	1161.4	1193.3	1165.0	1180.9	1167.8
37.5°	1395.0	1424.7	1446.7	1411.0	1446.7	1424.7	1395.0	1391.4	1377.5	1351.9	1324.3
35°	1545.3	1651.2	1775.4	1813.1	1775.4	1651.2	1545.3	1492.7	1470.1	1441.8	1420.0
32.5°	1796.9	1908.6	1957.1	1968.9	1957.1	1908.6	1796.9	1668.1	1591.2	1554.5	1531.3
30°	2197.1	2308.8	2328.9	2345.0	2328.9	2308.8	2197.1	2025.9	1848.2	1764.6	1691.8
27.5°	3089.3	3339.0	3398.2	3439.9	3398.2	3339.0	3089.3	2786.2	2329.5	2117.4	1942.6
25°	5671.5	6321.1	6745.3	6704.2	6745.3	6321.1	5671.5	4731.7	3541.3	2988.8	2398.4
22.5°	11955.6	13230.6	13911.0	13898.9	13911.0	13230.6	11955.6	9561.8	7172.7	5253.7	3749.9
20°	24213.6	27986.4	30028.5	29795.9	30028.5	27986.4	24213.6	18640.6	14728.9	10065.0	6850.9
17.5°	42220.8	49507.6	54598.4	54807.0	54598.4	49507.6	42220.8	34061.0	26796.3	18516.5	11915.9
15°	65285.9	76097.8	83730.4	83729.4	83730.4	76097.8	65285.9	53743.0	41533.7	29894.6	19860.6
12.5°	93357.5	106281.3	115014.1	116323.8	115014.1	106281.3	93357.5	76877.8	57416.0	42750.4	28940.2
10°	120298.8	134937.6	148139.7	151774.7	148139.7	134937.6	120298.8	100214.6	77963.9	55612.5	36679.1
7.5°	143102.4	166130.4	178156.2	181943.9	178156.2	166130.4	143102.4	120732.6	94856.9	67924.6	45523.2
5°	165485.6	185418.3	195515.0	198438.0	195515.0	185418.3	165485.6	136052.2	107483.7	78069.1	52128.0
2.5°	177259.9	195556.1	209747.2	217977.2	209747.2	195556.1	177259.9	147336.9	116254.3	85312.1	57461.3
0°	181689.9	199072.7	218104.3	231067.0	218104.3	199072.7	181689.9	152538.6	119938.1	88486.3	60137.9
-2.5°	177258.9	194078.9	208104.0	214932.2	208104.0	194078.9	177258.9	148289.7	115770.3	85378.7	58577.7
-5°	163827.3	183611.3	193822.7	196407.8	193822.7	183611.3	163827.3	136555.4	106484.7	79050.5	54489.7
-7.5°	142375.0	161402.2	173922.0	176741.9	173922.0	161402.2	142375.0	119225.1	94373.8	68987.7	46954.7
-10°	118492.3	134744.7	143191.0	145279.6	143191.0	134744.7	118492.3	97972.3	77644.8	57189.0	38098.6
-12.5°	92071.1	103990.0	112611.8	113782.0	112611.8	103990.0	92071.1	77893.7	59981.8	43201.8	29030.8
-15°	68532.8	76415.3	83366.2	84164.9	83366.2	76415.3	68532.8	56422.8	43442.9	30631.4	20068.8
-17.5°	45913.4	52439.4	56328.7	57450.8	56328.7	52439.4	45913.4	36096.9	28608.2	20139.9	13698.6
-20°	27509.7	32179.6	34771.4	34868.8	34771.4	32179.6	27509.7	22409.7	17522.1	12619.5	9007.7



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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°	15959.8	18558.1	19929.5	19902.9	19929.5	18558.1	15959.8	13401.0	10302.5	7854.9	6040.1
-25°	9204.3	10342.0	10796.0	10812.2	10796.0	10342.0	9204.3	7724.1	6229.3	5651.3	5034.8
-27.5°	5860.8	6122.0	6226.5	6243.3	6226.5	6122.0	5860.8	5508.4	5069.4	4839.8	4581.7
-30°	4913.8	5066.6	5136.9	5156.5	5136.9	5066.6	4913.8	4741.8	4553.2	4414.2	4277.5
-32.5°	4433.7	4517.9	4574.7	4566.4	4574.7	4517.9	4433.7	4340.4	4241.0	4152.0	4073.1
-35°	4168.3	4220.4	4252.3	4267.6	4252.3	4220.4	4168.3	4108.9	4048.1	3985.8	3917.1
-37.5°	3996.2	4042.8	4073.0	4082.0	4073.0	4042.8	3996.2	3941.7	3887.0	3828.6	3732.3
-40°	3817.1	3855.9	3880.7	3889.6	3880.7	3855.9	3817.1	3765.9	3706.3	3620.5	3462.3
-42.5°	3623.9	3665.5	3685.3	3685.5	3685.3	3665.5	3623.9	3546.9	3425.4	3262.1	3017.2
-45°	3278.6	3406.8	3471.0	3474.0	3471.0	3406.8	3278.6	3067.0	2809.0	2524.8	2249.7
-47.5°	2386.3	2513.0	2614.9	2690.2	2614.9	2513.0	2386.3	2204.4	2004.4	1794.4	1594.6
-50°	1621.5	1629.8	1630.4	1623.2	1630.4	1629.8	1621.5	1597.3	1569.6	1538.9	1514.5
-52.5°	1548.3	1557.0	1563.4	1566.9	1563.4	1557.0	1548.3	1524.7	1494.4	1457.1	1422.4
-55°	1429.5	1440.5	1444.9	1443.2	1444.9	1440.5	1429.5	1402.8	1366.7	1320.3	1272.8
-57.5°	1252.9	1260.2	1263.5	1262.5	1263.5	1260.2	1252.9	1231.9	1200.4	1159.0	1114.3
-60°	1088.5	1093.9	1097.0	1096.7	1097.0	1093.9	1088.5	1071.4	1043.4	1008.0	968.1
-62.5°	935.2	940.0	943.5	944.0	943.5	940.0	935.2	920.2	893.4	860.4	823.0
-65°	772.7	776.3	778.6	778.2	778.6	776.3	772.7	760.7	736.9	708.4	675.8
-67.5°	617.7	620.3	622.4	622.3	622.4	620.3	617.7	608.9	589.0	566.3	540.9
-70°	480.0	480.2	481.2	480.6	481.2	480.2	480.0	474.8	458.3	439.6	418.3
-72.5°	353.8	353.5	353.3	352.0	353.3	353.5	353.8	350.8	338.0	323.8	308.0
-75°	263.5	262.7	261.8	260.4	261.8	262.7	263.5	262.6	253.5	243.7	233.3
-77.5°	220.4	220.3	218.9	217.1	218.9	220.3	220.4	219.5	211.2	202.9	195.3
-80°	195.4	195.2	194.5	193.6	194.5	195.2	195.4	195.0	188.0	181.0	174.5
-82.5°	173.9	174.2	174.0	173.8	174.0	174.2	173.9	173.3	167.5	161.7	156.1
-85°	154.0	154.5	154.3	154.0	154.3	154.5	154.0	153.4	148.5	143.6	138.9
-87.5°	137.5	137.9	137.9	137.9	137.9	137.9	137.5	137.1	133.0	128.9	124.8
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	112.0	109.8	107.6	106.1	104.5	102.7	100.8	98.1	95.3	92.5	89.7
87.5°	0.6	0.6	0.6	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.2
85°	1.7	1.7	1.6	1.4	1.2	1.2	1.2	1.4	1.6	1.5	1.5
82.5°	1.9	1.9	1.9	1.8	1.6	1.6	1.5	1.7	1.9	1.9	1.9
80°	1.9	2.1	2.3	2.2	2.2	2.1	2.1	2.0	1.9	1.9	1.9
77.5°	1.9	2.0	2.2	2.4	2.5	2.6	2.6	2.5	2.5	2.6	2.6
75°	3.6	3.8	3.8	3.5	3.3	3.1	3.0	2.9	2.9	3.0	3.1
72.5°	9.1	8.9	8.6	7.8	7.0	7.0	6.8	6.2	5.1	3.9	3.1
70°	14.0	14.3	14.7	15.3	15.2	14.6	13.2	11.7	10.1	8.3	6.4
67.5°	15.1	16.7	18.1	19.2	19.5	19.7	19.1	18.2	18.0	16.4	11.8
65°	13.1	15.5	17.2	18.2	18.7	20.0	21.7	21.9	23.7	24.0	19.7
62.5°	9.0	11.2	12.7	14.1	15.0	16.4	19.5	22.6	27.2	29.0	25.1
60°	5.2	6.3	8.1	9.8	10.9	13.2	17.0	22.0	28.0	28.7	27.7
57.5°	3.9	4.9	6.3	7.7	8.2	10.9	14.8	20.7	26.8	27.9	26.2
55°	6.6	7.5	8.3	10.0	11.1	13.2	15.2	20.1	26.0	28.4	28.6
52.5°	20.2	24.4	24.3	19.6	20.3	23.0	21.4	25.3	29.2	32.5	33.7
50°	101.0	100.4	86.7	70.1	73.1	55.0	55.4	48.9	43.4	45.0	43.2
47.5°	267.6	245.8	224.2	206.9	184.7	163.6	147.1	116.1	106.8	75.7	75.0
45°	425.2	408.4	388.2	355.5	332.2	300.5	277.0	246.1	209.2	178.0	126.8
42.5°	760.1	619.2	527.1	492.6	445.4	412.5	386.7	360.1	332.7	293.5	245.9
40°	1138.0	1102.4	904.5	683.7	580.2	507.2	473.4	450.1	436.0	405.9	360.5
37.5°	1301.5	1263.6	1209.7	1105.1	821.9	657.5	578.3	533.0	529.5	501.7	461.4
35°	1392.0	1364.2	1336.9	1268.5	1117.1	973.1	752.5	646.9	595.8	583.8	550.7
32.5°	1504.6	1478.6	1443.1	1407.5	1370.1	1355.6	1110.0	851.7	678.7	644.8	615.7
30°	1637.9	1615.3	1572.7	1540.2	1536.8	1523.8	1470.2	1155.5	875.6	697.9	677.7
27.5°	1868.9	1775.6	1725.3	1710.1	1706.4	1698.8	1662.0	1513.7	1109.0	846.0	730.7
25°	2242.9	2060.4	1971.2	1948.2	1949.4	1921.6	1895.5	1772.9	1471.3	1025.2	785.5
22.5°	2850.5	2530.3	2368.0	2289.8	2236.9	2197.4	2118.2	2003.8	1847.2	1282.3	938.7
20°	4159.5	3159.2	2822.4	2633.5	2485.8	2379.6	2272.9	2167.8	1991.6	1594.4	1100.3
17.5°	7346.0	4413.5	3282.5	2965.3	2737.5	2549.5	2429.1	2294.6	2121.2	1841.6	1236.6
15°	11545.2	6653.2	4239.0	3352.4	3027.3	2775.7	2632.8	2461.1	2278.0	1995.1	1436.5
12.5°	17540.8	9664.1	5142.7	3687.4	3267.4	2968.3	2771.4	2630.4	2432.4	2155.4	1678.8
10°	22452.8	12987.6	7025.2	4386.3	3515.7	3109.4	2873.9	2721.8	2542.4	2302.0	1905.1
7.5°	28231.7	16166.5	8649.4	4884.2	3787.2	3277.1	2959.9	2786.3	2614.9	2359.5	2029.0
5°	32074.8	18468.1	10104.7	5420.9	4048.4	3457.8	3037.2	2832.7	2651.3	2377.7	2112.4
2.5°	35120.0	19743.4	10687.2	5568.6	4217.8	3626.9	3139.5	2890.4	2677.1	2399.8	2175.9
0°	36986.3	20542.5	10506.0	5663.1	4321.4	3736.9	3281.6	2954.3	2688.4	2413.7	2210.2
-2.5°	36144.0	20166.7	10417.4	5586.9	4381.8	3800.2	3393.3	3098.0	2750.8	2434.0	2224.9
-5°	33656.3	18730.4	10193.9	5615.4	4408.3	3845.7	3465.4	3189.2	2808.4	2458.2	2211.2
-7.5°	29228.2	16773.6	9178.5	5436.4	4380.8	3862.3	3507.6	3235.1	2880.7	2534.0	2195.4
-10°	23075.0	13631.6	7720.4	5183.1	4323.4	3851.5	3532.9	3238.9	2908.3	2588.7	2142.1
-12.5°	18368.5	10671.8	6190.0	4820.3	4242.5	3828.8	3542.5	3215.5	2918.7	2639.2	2078.1
-15°	12817.3	8000.2	5575.9	4664.6	4164.3	3795.8	3523.9	3171.5	2907.8	2661.7	1959.4
-17.5°	9044.1	6112.3	4969.0	4432.7	4048.6	3761.6	3454.7	3137.9	2874.3	2540.7	1776.5
-20°	6167.0	5226.8	4703.5	4282.4	3942.9	3697.2	3363.0	3088.1	2808.3	2287.2	1642.6



REPORT NUMBER: P731341 (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°	5227.5	4802.9	4458.9	4129.0	3896.0	3587.1	3281.3	3012.9	2711.7	1999.9	1495.1
-25°	4750.1	4484.1	4241.0	4054.9	3802.9	3485.9	3206.0	2893.6	2384.2	1762.5	1359.1
-27.5°	4404.7	4223.4	4113.1	3933.8	3664.8	3389.9	3099.9	2712.3	2009.8	1569.3	1362.9
-30°	4155.9	4066.0	3949.9	3766.2	3521.9	3260.3	2976.6	2319.0	1754.3	1418.3	1358.0
-32.5°	3993.2	3898.1	3761.6	3572.1	3351.5	3108.0	2536.9	1948.9	1518.7	1408.7	1326.0
-35°	3841.7	3700.6	3519.9	3340.9	3168.9	2619.3	2055.3	1631.9	1457.0	1386.2	1282.5
-37.5°	3600.6	3431.0	3248.5	3031.0	2562.2	2068.9	1671.0	1496.5	1434.6	1336.6	1217.8
-40°	3267.6	3095.1	2758.0	2386.8	2000.8	1621.5	1520.7	1472.6	1378.2	1270.6	1139.7
-42.5°	2705.0	2390.4	2106.3	1811.0	1566.4	1531.0	1484.7	1403.0	1303.5	1180.8	1057.4
-45°	2011.3	1767.7	1560.6	1547.2	1525.4	1472.6	1405.9	1311.5	1202.6	1086.8	970.1
-47.5°	1541.2	1524.1	1515.3	1487.3	1440.7	1381.0	1294.3	1201.2	1096.0	989.7	889.8
-50°	1485.8	1455.8	1424.5	1385.8	1320.8	1249.3	1169.9	1082.4	989.8	900.6	806.4
-52.5°	1386.9	1339.3	1289.9	1238.7	1181.6	1117.3	1044.5	972.1	893.9	807.0	719.8
-55°	1226.8	1183.8	1142.1	1095.9	1045.8	991.9	932.9	864.3	787.5	707.6	633.6
-57.5°	1071.3	1031.8	1000.7	963.5	921.1	870.0	813.6	746.9	679.0	612.2	547.7
-60°	931.7	895.2	866.2	830.9	789.8	743.1	693.2	636.6	575.1	525.4	476.7
-62.5°	790.4	758.1	728.6	696.5	660.6	621.0	578.9	538.4	492.7	447.2	399.9
-65°	645.8	614.4	589.0	569.1	543.6	516.5	483.9	448.0	405.4	363.7	320.3
-67.5°	517.0	493.8	475.6	458.2	435.9	411.1	381.0	348.8	317.9	287.2	253.2
-70°	397.9	379.3	362.0	344.1	327.5	311.4	291.1	268.0	242.1	221.7	203.3
-72.5°	293.3	281.6	269.6	257.5	244.0	234.5	224.5	212.1	198.0	182.2	168.7
-75°	223.8	217.4	210.9	205.3	198.9	191.7	185.5	178.5	171.0	162.5	154.1
-77.5°	188.3	184.1	180.1	177.5	174.5	171.0	166.5	160.8	154.8	147.9	141.0
-80°	168.3	165.0	161.7	159.4	156.7	153.7	150.3	145.4	140.3	134.4	128.7
-82.5°	150.6	147.9	145.1	142.9	140.5	138.0	135.3	131.2	126.8	121.8	116.8
-85°	134.2	131.9	129.6	127.7	125.7	123.5	121.2	117.6	113.9	109.7	105.5
-87.5°	120.6	118.6	116.6	114.8	113.1	111.0	108.9	105.9	102.9	99.5	96.2
-90°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	1.2



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	86.0	82.3	79.5	76.7	73.6	70.5	67.1	63.7	59.4	55.1	49.8
87.5°	1.2	1.2	1.4	1.6	1.6	1.5	1.5	1.5	1.6	1.6	1.8
85°	1.4	1.4	1.6	1.9	1.9	1.9	1.8	1.8	2.0	2.1	2.1
82.5°	1.9	1.9	1.8	1.9	2.1	2.2	2.1	2.1	2.3	2.5	2.4
80°	2.1	2.2	2.2	2.1	2.3	2.5	2.4	2.4	2.6	2.7	2.7
77.5°	2.6	2.6	2.5	2.4	2.4	2.5	2.6	2.6	2.8	3.0	3.0
75°	3.1	2.9	2.6	2.6	2.7	2.6	2.8	2.9	3.2	3.2	3.3
72.5°	3.1	3.1	2.8	2.8	3.1	3.3	3.2	3.3	3.6	3.7	3.6
70°	4.7	3.6	3.4	3.5	3.8	4.0	4.0	4.1	4.0	4.3	4.3
67.5°	7.5	6.2	5.1	4.5	4.5	4.8	4.9	5.1	5.1	4.9	5.0
65°	14.4	10.4	7.3	6.4	5.7	5.6	5.8	6.3	6.3	6.2	5.7
62.5°	20.7	16.0	12.3	9.2	7.7	7.7	6.8	7.6	7.6	7.5	6.9
60°	26.3	21.5	17.8	14.6	11.7	10.3	9.8	9.0	9.2	9.0	8.3
57.5°	26.5	26.1	24.4	20.7	18.0	15.1	13.5	12.3	11.1	11.0	9.8
55°	26.9	27.3	30.5	28.3	25.6	21.6	18.9	16.6	13.9	13.2	11.4
52.5°	32.2	33.1	35.6	37.4	35.4	29.9	27.0	21.3	19.2	15.7	13.7
50°	41.2	44.5	44.8	48.0	46.3	42.7	35.8	30.0	24.9	19.1	16.2
47.5°	64.3	67.3	61.6	63.1	60.2	57.5	49.1	40.4	31.1	24.9	18.7
45°	122.3	105.3	95.4	87.2	79.7	76.6	65.3	51.9	41.7	31.0	21.4
42.5°	198.3	172.7	152.7	116.0	111.7	98.9	84.7	69.5	53.2	37.3	25.8
40°	305.4	256.4	222.5	183.5	151.2	124.2	109.8	89.4	65.4	45.3	31.5
37.5°	406.3	343.7	300.6	253.1	201.0	165.6	137.4	110.7	80.0	56.5	37.3
35°	487.4	425.2	366.9	317.8	265.0	207.1	167.0	134.6	98.7	68.1	43.2
32.5°	560.9	494.9	428.7	373.4	316.1	247.5	201.5	158.3	117.6	80.2	49.4
30°	626.1	563.0	487.6	419.1	358.1	289.9	234.2	180.4	136.5	92.7	56.6
27.5°	697.2	633.6	547.3	468.7	395.2	326.7	260.3	201.0	155.4	105.3	66.1
25°	764.1	699.3	613.9	524.5	432.6	356.0	284.6	220.1	173.1	118.1	75.0
22.5°	808.9	754.7	675.0	583.4	473.9	384.6	308.4	241.0	185.0	129.8	83.4
20°	845.0	803.4	729.0	628.0	518.8	418.5	332.1	257.8	196.2	140.4	91.2
17.5°	896.5	842.7	767.3	665.5	559.9	452.7	355.1	273.7	206.4	149.8	98.4
15°	1023.2	877.2	804.6	700.7	591.7	481.8	377.4	288.6	215.7	158.2	104.9
12.5°	1154.6	910.7	840.6	731.3	615.1	506.7	398.8	302.6	224.0	166.7	110.7
10°	1277.9	939.9	874.1	759.1	635.5	527.6	418.9	317.9	236.4	175.4	115.9
7.5°	1382.2	966.4	905.7	784.3	653.9	546.4	439.3	337.0	248.9	183.5	120.5
5°	1470.2	990.8	936.3	815.3	675.7	563.9	457.3	354.6	260.6	190.7	124.5
2.5°	1530.2	1012.9	963.9	844.3	694.8	578.4	472.7	370.7	271.3	197.0	127.8
0°	1570.0	1033.0	987.3	869.1	710.8	590.1	485.6	384.8	280.8	202.3	130.5
-2.5°	1582.5	1054.0	1006.5	890.2	736.3	605.7	495.0	391.4	287.3	208.3	134.9
-5°	1573.5	1073.3	1022.1	906.9	757.7	618.2	502.0	395.8	292.3	213.0	138.6
-7.5°	1546.7	1095.1	1035.1	919.4	774.2	627.2	506.4	398.2	296.0	216.5	141.5
-10°	1500.8	1116.9	1045.6	924.1	776.7	631.9	508.4	398.5	298.2	218.7	143.5
-12.5°	1443.2	1136.9	1052.1	923.3	773.7	632.8	510.2	397.6	298.9	219.5	144.6
-15°	1369.4	1162.1	1060.4	917.6	766.8	630.8	508.6	394.6	297.0	218.2	144.6
-17.5°	1272.7	1185.6	1065.7	910.2	757.4	626.0	503.5	388.8	293.5	214.6	143.4
-20°	1270.3	1195.8	1062.8	896.0	743.9	617.3	494.8	380.1	288.3	209.8	141.0

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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°	1287.9	1191.6	1046.0	877.2	727.8	604.9	483.2	368.7	281.4	203.7	137.7
-25°	1297.7	1183.6	1022.7	856.9	711.3	589.1	469.6	356.7	272.8	196.4	133.5
-27.5°	1281.8	1159.8	992.2	829.8	692.5	570.4	454.0	348.1	265.0	187.8	128.5
-30°	1254.8	1114.8	954.9	798.4	668.1	548.7	435.5	337.8	256.4	180.8	122.6
-32.5°	1214.4	1066.5	912.7	768.3	640.4	523.8	414.6	325.5	246.4	174.9	118.8
-35°	1150.8	1011.9	867.5	734.4	609.6	498.3	394.6	311.1	235.1	167.4	115.5
-37.5°	1082.0	949.4	825.8	697.6	577.5	470.5	377.0	295.9	222.3	158.3	111.8
-40°	1010.1	886.1	772.0	657.8	544.3	440.5	356.8	278.8	209.9	147.7	107.3
-42.5°	934.6	824.3	716.5	611.5	508.2	415.3	334.2	259.0	195.0	139.7	102.1
-45°	864.0	759.5	657.8	562.6	469.6	387.1	309.1	237.2	178.4	132.8	98.1
-47.5°	789.7	692.1	598.8	510.4	434.5	355.8	280.9	217.0	160.6	124.9	96.5
-50°	713.2	623.6	538.7	463.1	393.6	321.0	251.4	195.1	150.0	115.5	94.6
-52.5°	635.7	554.7	482.5	416.2	349.5	283.1	224.2	172.5	138.5	110.4	92.4
-55°	557.4	491.7	429.2	365.8	302.9	247.7	194.7	158.1	126.3	107.1	89.9
-57.5°	490.3	432.1	371.7	312.3	260.1	211.7	172.7	143.0	120.2	103.4	88.1
-60°	423.7	366.5	310.7	264.0	219.5	182.5	155.1	130.5	115.6	99.7	86.0
-62.5°	349.4	300.1	258.7	218.1	187.1	161.3	138.8	124.3	110.6	96.7	83.6
-65°	281.6	243.9	208.6	185.3	162.2	142.8	131.0	117.7	106.1	93.5	81.0
-67.5°	219.2	198.8	178.2	157.2	144.6	133.9	122.7	112.1	101.6	89.9	78.3
-70°	184.3	165.7	153.6	144.2	134.8	125.1	116.3	107.0	97.0	86.5	75.5
-72.5°	159.4	150.5	141.9	133.3	125.7	117.9	110.1	101.7	92.4	82.9	72.5
-75°	145.9	138.4	131.2	124.1	117.3	110.5	103.6	96.1	87.7	79.1	69.3
-77.5°	134.3	127.6	121.1	115.1	109.3	103.5	97.1	90.2	82.7	75.0	65.9
-80°	122.9	117.2	111.8	106.6	101.6	96.4	90.4	84.4	77.6	70.6	62.3
-82.5°	111.8	106.8	102.4	97.9	93.3	88.7	83.6	78.4	72.3	66.2	58.9
-85°	101.1	96.7	92.8	88.8	84.9	80.9	77.0	72.9	67.8	62.5	56.0
-87.5°	92.4	88.6	85.5	82.3	79.1	75.7	72.1	68.4	63.6	58.9	52.9
-90°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	44.5	37.4	30.3	21.9	13.6	7.7	1.9
87.5°	2.1	2.1	2.1	2.1	2.0	2.0	1.9
85°	2.2	2.3	2.3	2.2	2.1	2.2	1.9
82.5°	2.4	2.5	2.5	2.4	2.2	2.3	1.9
80°	2.6	2.7	2.7	2.5	2.3	2.5	1.9
77.5°	2.9	2.9	2.9	2.7	2.5	2.6	1.9
75°	3.2	3.3	3.2	2.8	2.6	2.8	1.9
72.5°	3.6	3.6	3.5	3.0	2.7	2.9	1.9
70°	4.0	4.0	3.8	3.2	2.9	3.1	1.9
67.5°	4.8	4.4	4.2	3.5	3.1	3.2	1.9
65°	5.6	5.0	4.6	3.9	3.3	3.4	1.9
62.5°	6.4	5.8	5.0	4.3	3.5	3.6	1.9
60°	7.3	6.7	5.4	4.7	3.7	3.7	1.9
57.5°	8.7	7.6	6.2	5.0	4.1	3.9	1.9
55°	10.1	8.5	7.1	5.4	4.5	4.0	1.9
52.5°	11.6	9.5	8.0	5.8	5.0	4.2	1.9
50°	13.1	10.9	8.9	6.3	5.4	4.4	1.9
47.5°	14.7	12.3	9.8	6.7	5.9	4.5	1.9
45°	17.1	13.8	10.8	7.5	6.3	4.7	1.9
42.5°	19.4	15.4	11.7	8.2	6.8	4.9	1.9
40°	22.0	17.0	12.8	9.1	7.3	5.1	1.9
37.5°	24.8	18.6	14.1	10.1	7.8	5.2	1.9
35°	27.6	20.6	15.3	11.1	8.3	5.4	1.9
32.5°	31.2	22.9	16.6	12.2	8.8	5.6	1.9
30°	36.3	25.2	17.8	13.2	9.3	5.7	1.9
27.5°	41.4	27.5	19.4	14.2	9.8	5.9	1.9
25°	46.3	29.7	21.0	15.2	10.3	6.1	1.9
22.5°	51.2	32.0	22.6	16.2	10.8	6.2	1.9
20°	55.9	34.3	24.2	17.2	11.3	6.4	1.9
17.5°	60.3	36.6	25.7	18.2	11.8	6.5	1.9
15°	64.3	38.7	27.1	19.1	12.3	6.7	1.9
12.5°	68.0	40.7	28.5	20.1	12.8	6.8	1.9
10°	71.4	42.6	29.9	21.0	13.2	6.9	1.9
7.5°	74.5	44.4	31.2	21.8	13.6	7.1	1.9
5°	77.3	46.0	32.4	22.6	14.0	7.2	1.9
2.5°	79.7	47.5	33.5	23.4	14.4	7.3	1.9
0°	81.7	48.9	34.6	24.1	14.8	7.4	1.9
-2.5°	84.3	50.9	36.1	25.2	15.5	7.7	1.9
-5°	86.5	52.8	37.6	26.2	16.1	8.0	1.9
-7.5°	88.4	54.6	39.0	27.1	16.7	8.3	1.9
-10°	89.7	56.2	40.2	28.0	17.3	8.6	1.9
-12.5°	90.7	57.6	41.4	28.9	17.8	8.8	1.9
-15°	91.2	58.8	42.5	29.6	18.3	9.1	1.9
-17.5°	91.2	59.9	43.4	30.3	18.8	9.3	1.9
-20°	90.9	60.8	44.2	30.9	19.2	9.5	1.9

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	90.2	61.5	45.0	31.4	19.5	9.7	1.9
-25°	89.0	62.1	45.6	31.9	19.9	9.9	1.9
-27.5°	87.4	62.6	46.0	32.3	20.2	10.0	1.9
-30°	85.2	63.0	46.4	32.6	20.4	10.2	1.9
-32.5°	82.6	63.1	46.8	32.8	20.6	10.3	1.9
-35°	81.7	63.1	47.2	32.9	20.8	10.4	1.9
-37.5°	81.5	63.0	47.4	32.9	20.9	10.5	1.9
-40°	81.0	63.1	47.5	32.9	20.9	10.5	1.9
-42.5°	80.3	63.1	47.5	32.8	21.0	10.6	1.9
-45°	79.3	62.9	47.4	32.8	20.9	10.6	1.9
-47.5°	78.0	62.6	47.2	32.6	20.9	10.6	1.9
-50°	77.1	62.1	46.9	32.6	20.7	10.6	1.9
-52.5°	76.1	61.4	46.5	32.4	20.6	10.5	1.9
-55°	74.9	60.5	45.9	32.2	20.3	10.5	1.9
-57.5°	73.5	59.5	45.2	31.9	20.1	10.4	1.9
-60°	71.9	58.2	44.4	31.6	19.8	10.3	1.9
-62.5°	70.2	56.9	43.7	31.1	19.5	10.2	1.9
-65°	68.4	55.4	42.9	30.6	19.1	10.0	1.9
-67.5°	66.4	53.9	42.0	29.9	18.8	9.9	1.9
-70°	64.2	52.4	41.0	29.3	18.3	9.7	1.9
-72.5°	61.9	50.7	39.9	28.6	17.9	9.5	1.9
-75°	59.5	48.9	38.7	27.8	17.3	9.3	1.9
-77.5°	56.9	47.0	37.5	27.0	16.8	9.1	1.9
-80°	54.1	45.1	36.2	26.1	16.2	8.8	1.9
-82.5°	51.8	43.3	34.8	25.1	15.6	8.6	1.9
-85°	49.5	41.4	33.4	24.1	15.0	8.3	1.9
-87.5°	47.0	39.4	31.9	23.1	14.3	8.0	1.9
-90°	1.9	1.9	1.9	1.9	1.9	1.9	1.9

(END OF REPORT)







Horizontal Angle (degrees)



Horizontal Angle (degrees)



