

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

Brand: EPHESUS

Report Number: P1212210 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS12-1000R-57-80-7F-ECV**

Issue Date: 11/14/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1212210 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2509-549-33)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/14/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: EPHESUS  
Catalog Number: EPH-LS12-1000R-57-80-7F-ECV  
Description: EPHESUS LS12 LUMINAIRE  
(12) 5700K, 80 CRI LEDS AND 7F BEAM SHAPE WITH EXTREME CUTOFF VISOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

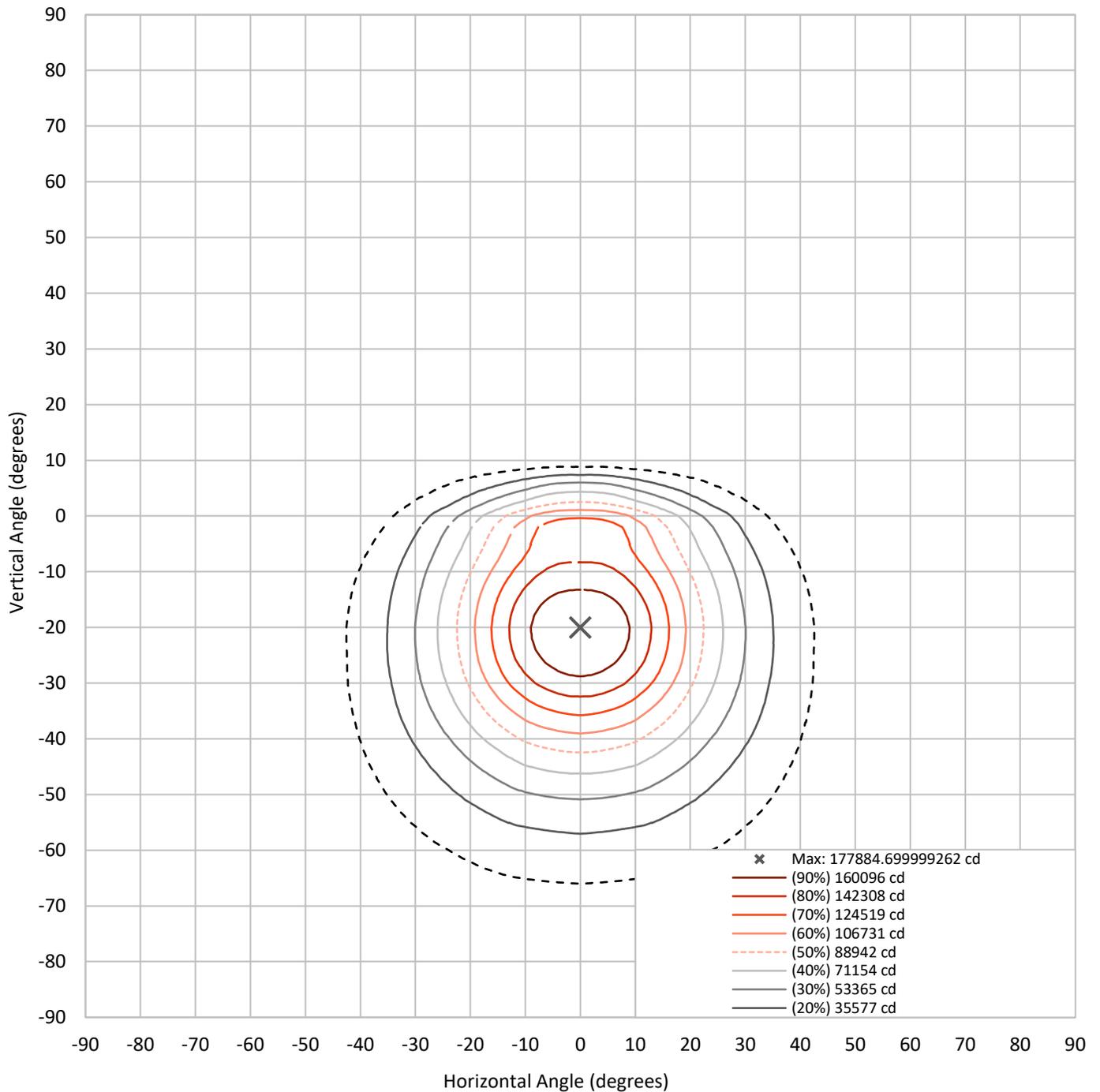
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	117236.4 lumens	Max Intensity:	177884.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x -20°V
Efficacy:	112.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.83' x L: 0.79' x H: 0')		
Beam Angle (50%):	44.8°H x 44.8°V	Field Angle (10%):	84.9°H x 74.8°V
Beam Lumens:	62912.3 lumens	Field Lumens:	107487.8 lumens
Beam Efficiency:	53.7%	Field Efficiency:	91.7%

Input Watts (W): 1041  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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





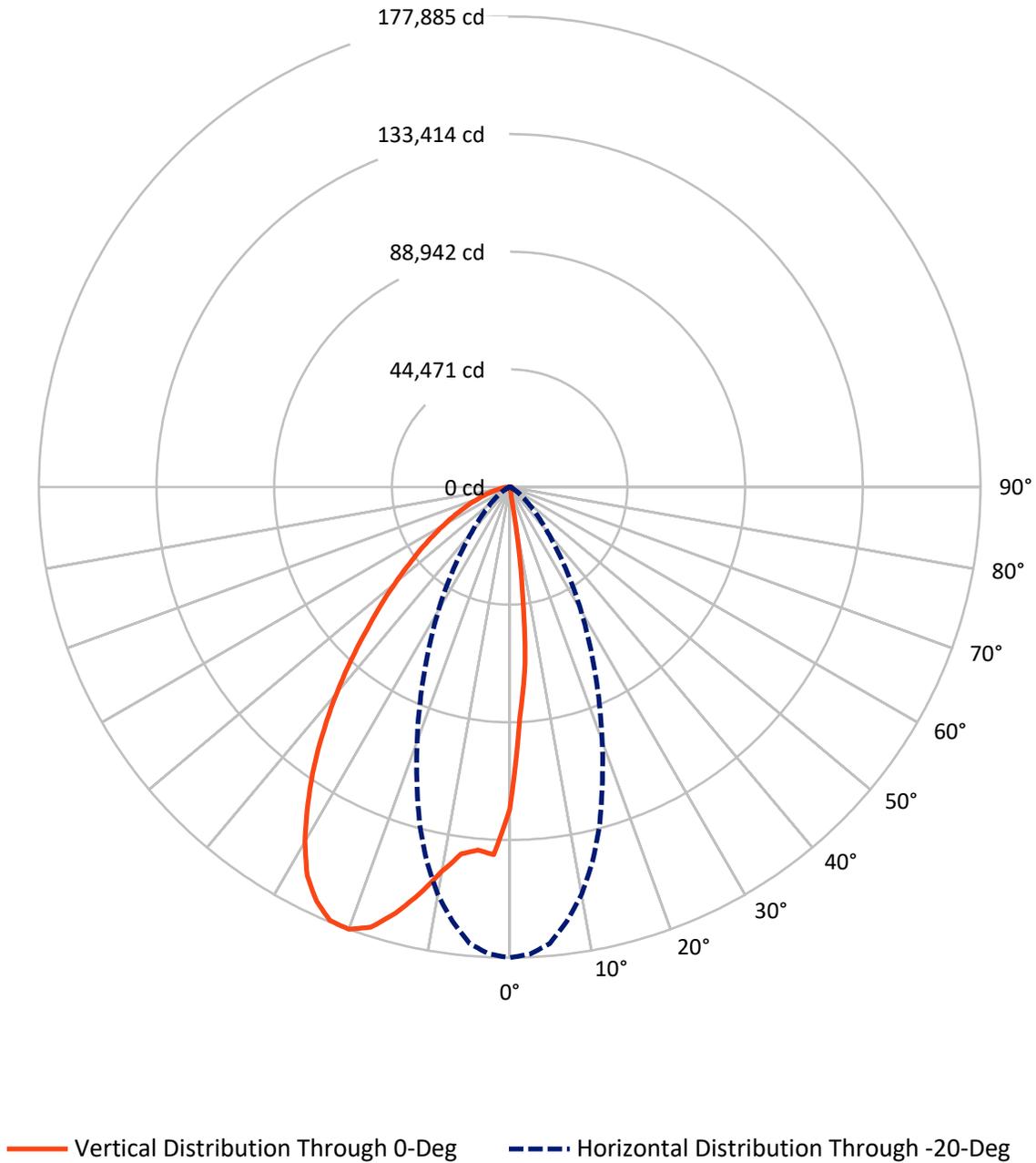
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### Lumen Table

90																
80	2.3	6.1		7.9		8.2		7.8		8.2		7.9		6.1		2.3
70																
60	2.3	1.2	1.5	1.5	1.4	1.1	0.7	0.2	0.2	0.7	1.1	1.4	1.5	1.5	1.2	2.3
50		1.3	1.5	1.6	1.5	1.2	0.7	0.2	0.2	0.7	1.2	1.5	1.6	1.5	1.3	
40	2.3	1.3	1.6	1.8	1.7	1.3	0.8	0.3	0.3	0.8	1.3	1.7	1.8	1.6	1.3	2.3
30		1.4	1.8	1.9	1.9	1.6	1.1	0.4	0.4	1.1	1.6	1.9	1.9	1.8	1.4	
20	2.4	1.5	1.9	2.2	2.3	2.1	1.4	0.5	0.5	1.4	2.1	2.3	2.2	1.9	1.5	2.4
10		1.6	2.7	4.9	6.8	14.5	17.7	17.6	17.6	17.7	14.5	6.8	4.9	2.7	1.6	
0	3.0	2.5	10.4	43.7	182.4	562.1	1187.5	1786.2	1786.2	1187.5	562.1	182.4	43.7	10.4	2.5	3.0
-10		6.7	42.7	182.6	614.5	1558.5	2919.3	4029.6	4029.6	2919.3	1558.5	614.5	182.6	42.7	6.7	
-20	4.8	13.6	77.6	290.2	863.8	2009.9	3635.9	4838.9	4838.9	3635.9	2009.9	863.8	290.2	77.6	13.6	4.8
-30		18.6	93.0	314.2	905.0	2053.4	3693.5	4950.2	4950.2	3693.5	2053.4	905.0	314.2	93.0	18.6	
-40	6.7	19.6	89.5	289.4	778.1	1663.7	2852.0	3740.8	3740.8	2852.0	1663.7	778.1	289.4	89.5	19.6	6.7
-50		18.1	76.2	230.9	564.3	1116.6	1798.3	2273.7	2273.7	1798.3	1116.6	564.3	230.9	76.2	18.1	
-60	6.1	15.0	56.4	159.9	358.4	660.7	1003.4	1215.1	1215.1	1003.4	660.7	358.4	159.9	56.4	15.0	6.1
-70		10.3	33.9	91.8	195.3	335.4	489.6	581.7	581.7	489.6	335.4	195.3	91.8	33.9	10.3	
-80																
-90	4.4	30.3		142.0		393.5		549.5		393.5		142.0		30.3		4.4

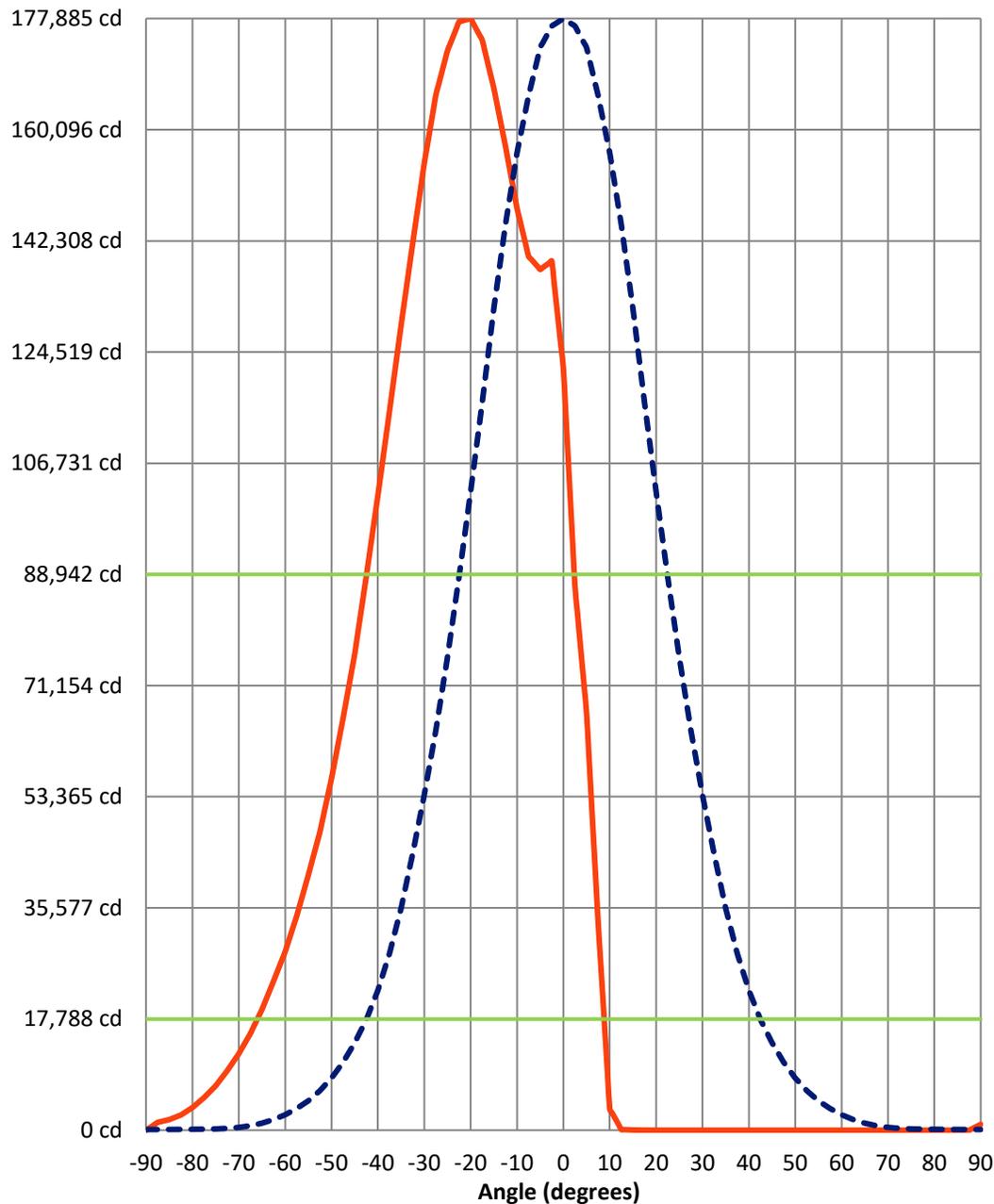
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 44.8°  
 V Angle: 44.8°  
 Lumens: 62912.3  
 Efficiency: 53.7%

**Field:**  
 H Angle: 84.9°  
 V Angle: 74.8°  
 Lumens: 107487.8  
 Efficiency: 91.7%

**Spill:**  
 Lumens: 9748.6  
 Efficiency: 8.3%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through -20-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°	112.0	120.1	128.3	147.7	167.0	186.4	205.8	222.5	239.3	256.1	272.8
87.5°	112.0	111.1	110.2	108.7	107.3	105.8	104.3	101.9	99.6	97.2	94.8
85°	112.0	111.1	110.3	108.8	107.4	105.9	104.3	102.0	99.6	97.2	94.9
82.5°	112.0	111.1	110.3	109.0	107.5	106.0	104.4	102.1	99.7	97.4	95.0
80°	112.0	111.1	110.4	109.1	107.6	106.1	104.5	102.3	100.0	97.6	95.1
77.5°	112.0	111.2	110.5	109.2	107.7	106.2	104.8	102.7	100.3	97.9	95.3
75°	112.0	111.2	110.6	109.3	107.9	106.5	105.1	103.1	100.7	98.2	95.6
72.5°	112.0	111.2	110.7	109.5	108.0	106.7	105.5	103.5	100.9	98.4	95.9
70°	112.0	111.3	110.8	109.6	108.2	106.9	105.8	103.7	101.2	98.7	96.2
67.5°	112.0	111.3	110.9	109.7	108.4	107.2	106.0	104.0	101.5	99.1	96.6
65°	112.0	111.3	111.0	109.8	108.5	107.4	106.1	104.3	101.9	99.4	97.0
62.5°	112.0	111.3	111.1	110.0	108.7	107.6	106.4	104.6	102.3	99.9	97.6
60°	112.0	111.4	111.1	110.1	108.9	107.9	106.6	105.0	102.7	100.5	98.2
57.5°	112.0	111.4	111.2	110.2	109.1	108.1	106.9	105.4	103.3	101.3	98.9
55°	112.0	111.4	111.3	110.3	109.4	108.4	107.2	105.7	104.1	102.0	99.7
52.5°	112.0	111.5	111.3	110.4	109.6	108.7	107.5	106.3	104.9	102.9	100.6
50°	112.0	111.5	111.4	110.6	109.9	109.0	107.9	106.8	105.7	103.8	101.4
47.5°	112.0	111.5	111.5	110.7	110.2	109.3	108.3	107.4	106.6	104.7	102.3
45°	112.0	111.6	111.6	110.9	110.4	109.7	108.8	108.1	107.3	105.6	103.2
42.5°	112.0	111.6	111.8	111.2	110.8	110.1	109.3	108.7	108.1	106.4	104.2
40°	112.0	111.6	111.9	111.4	111.1	110.5	109.9	109.4	108.8	107.3	105.2
37.5°	112.0	111.6	112.1	111.8	111.4	110.9	110.4	110.1	109.6	108.2	106.2
35°	112.0	111.7	112.2	112.2	111.7	111.3	111.0	110.9	110.4	109.2	107.3
32.5°	112.0	111.7	112.4	112.6	112.1	111.8	111.5	111.7	111.4	110.4	109.1
30°	112.0	111.7	112.6	113.0	112.4	112.3	112.2	112.5	112.4	111.7	111.0
27.5°	112.0	111.7	112.7	113.4	113.2	112.7	112.9	113.3	113.6	113.1	113.2
25°	112.0	111.8	112.9	113.9	114.0	113.2	113.5	114.3	114.8	114.9	115.6
22.5°	112.0	111.8	113.1	114.3	115.0	114.0	114.2	115.2	116.1	116.9	118.1
20°	112.0	111.8	113.3	114.8	115.9	115.7	114.9	116.3	117.4	119.0	120.7
17.5°	112.0	111.8	113.5	115.3	116.9	117.5	116.8	117.3	118.8	121.2	123.5
15°	112.0	111.9	113.7	115.8	118.0	119.3	119.6	119.6	120.3	123.5	126.3
12.5°	112.0	111.9	113.9	116.3	119.1	121.3	122.4	123.7	124.0	125.8	129.2
10°	112.0	111.9	114.1	116.8	120.2	123.2	125.3	127.9	129.5	135.0	137.6
7.5°	112.0	111.9	114.3	117.3	121.2	125.3	128.2	132.1	135.2	145.6	158.4
5°	112.0	112.0	114.5	117.8	122.3	127.3	131.1	136.3	140.9	156.5	180.1
2.5°	112.0	112.0	114.7	118.2	123.4	129.3	134.0	140.5	146.6	167.4	202.2
0°	112.0	112.0	114.9	118.7	124.4	131.2	136.9	144.6	152.2	178.1	224.0
-2.5°	112.0	112.5	116.0	120.7	127.8	137.3	147.0	161.1	183.2	237.1	332.4
-5°	112.0	113.0	117.1	122.7	131.2	143.3	156.9	177.3	213.5	294.2	437.0
-7.5°	112.0	113.5	118.2	124.6	134.5	149.1	166.5	192.9	242.3	347.9	535.0
-10°	112.0	114.0	119.3	126.5	137.6	154.6	175.6	207.7	269.2	397.0	623.6
-12.5°	112.0	114.5	120.3	128.3	140.7	159.8	184.3	221.5	293.4	448.3	757.2
-15°	112.0	114.9	121.3	130.1	143.5	164.6	192.4	234.1	335.6	550.8	901.8
-17.5°	112.0	115.4	122.3	131.7	146.2	169.0	199.7	262.8	399.2	641.1	1026.7
-20°	112.0	115.9	123.3	133.3	148.7	173.0	213.5	301.9	455.1	717.5	1129.4



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CATALOG NUMBER: EPH-LS12-1000R-57-80-7F-ECV

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	112.0	116.3	124.2	134.8	150.9	176.3	237.5	336.6	502.3	778.4	1207.6
-25°	112.0	116.7	125.1	136.3	152.9	187.3	259.2	366.4	539.9	822.3	1259.2
-27.5°	112.0	117.1	125.9	137.6	154.7	200.4	278.3	390.9	567.0	855.4	1308.5
-30°	112.0	117.5	126.7	138.8	156.8	212.0	294.6	409.6	591.9	886.5	1334.2
-32.5°	112.0	117.9	127.4	139.8	164.1	221.9	308.0	427.6	613.2	902.3	1334.2
-35°	112.0	118.3	128.1	140.8	170.4	230.0	319.5	442.7	625.9	902.3	1308.0
-37.5°	112.0	118.6	128.7	141.6	175.8	237.0	328.8	453.4	629.8	886.1	1316.1
-40°	112.0	118.9	129.3	142.4	180.3	243.3	335.3	459.4	624.7	875.0	1319.2
-42.5°	112.0	119.2	129.8	143.7	184.1	248.1	339.0	460.9	621.9	885.2	1301.1
-45°	112.0	119.4	130.3	146.1	187.4	251.2	339.9	459.5	617.9	882.8	1266.9
-47.5°	112.0	119.7	130.7	148.0	189.7	252.7	338.0	456.5	608.2	864.7	1241.5
-50°	112.0	119.9	131.1	149.8	191.1	252.6	336.5	449.7	603.5	853.5	1196.0
-52.5°	112.0	120.1	131.4	151.4	191.6	250.9	333.1	439.1	593.7	827.6	1133.9
-55°	112.0	120.3	131.6	152.7	191.2	248.8	327.4	425.5	577.4	787.3	1077.4
-57.5°	112.0	120.4	131.8	153.6	189.9	245.5	319.5	413.7	552.4	746.3	1003.6
-60°	112.0	120.5	131.9	154.2	187.8	240.9	309.7	399.6	521.5	698.0	921.6
-62.5°	112.0	120.6	132.0	154.6	187.3	234.9	299.9	381.4	492.0	639.7	842.8
-65°	112.0	120.7	131.9	154.6	186.3	227.8	288.3	360.3	456.8	585.8	752.4
-67.5°	112.0	120.7	131.8	154.3	184.8	222.0	275.0	339.9	416.2	528.4	668.6
-70°	112.0	120.7	131.6	153.8	182.8	218.0	260.2	317.2	384.3	464.8	583.9
-72.5°	112.0	120.7	131.4	153.5	180.5	213.3	251.6	292.5	350.2	419.2	499.3
-75°	112.0	120.7	131.1	153.1	177.7	208.1	243.2	277.0	313.7	371.2	438.2
-77.5°	112.0	120.7	130.7	152.5	176.2	202.4	234.1	264.6	296.1	329.2	374.1
-80°	112.0	120.6	130.3	151.8	174.7	198.7	224.4	251.7	280.0	309.6	340.5
-82.5°	112.0	120.5	129.9	151.0	173.1	195.9	219.6	240.9	263.3	289.3	316.3
-85°	112.0	120.4	129.4	150.0	171.2	193.0	215.3	235.1	255.2	275.7	296.5
-87.5°	112.0	120.3	128.9	148.9	169.2	189.8	210.7	228.9	247.4	266.0	284.8
-90°	112.0	111.1	110.1	108.7	107.2	105.8	104.3	101.9	99.6	97.2	94.8



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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°	286.5	300.1	313.8	327.4	344.9	362.4	379.8	397.3	422.7	448.1	473.4
87.5°	91.6	88.4	85.1	81.9	78.4	74.8	71.3	67.7	64.0	60.2	56.4
85°	91.8	88.7	85.5	82.4	78.9	75.3	71.7	68.2	64.2	60.3	56.3
82.5°	91.9	88.8	85.7	82.6	79.1	75.5	71.9	68.2	64.2	60.1	56.1
80°	92.1	89.0	85.9	82.8	79.2	75.5	71.7	67.8	63.9	60.0	56.2
77.5°	92.4	89.3	86.2	83.1	79.5	75.7	71.9	68.1	64.2	60.4	56.5
75°	92.7	89.6	86.5	83.5	79.9	76.1	72.3	68.5	64.7	60.9	57.0
72.5°	93.0	90.0	86.9	83.9	80.5	76.7	72.9	69.1	65.2	61.4	57.5
70°	93.5	90.4	87.4	84.4	81.1	77.3	73.5	69.7	65.9	62.0	58.2
67.5°	93.9	91.0	87.9	84.9	81.8	78.0	74.3	70.4	66.6	62.8	58.9
65°	94.5	91.5	88.5	85.6	82.5	78.6	74.8	71.1	67.5	63.6	59.7
62.5°	95.0	92.2	89.2	86.2	82.8	79.1	75.5	71.9	68.3	64.6	60.7
60°	95.7	92.8	89.9	86.6	83.3	80.0	76.5	72.9	69.3	65.6	61.7
57.5°	96.4	93.6	90.5	87.4	84.3	81.0	77.5	74.0	70.4	66.8	62.9
55°	97.2	94.4	91.5	88.6	85.5	82.1	78.7	75.2	71.6	68.0	64.1
52.5°	98.0	95.4	92.8	89.9	86.6	83.3	79.9	76.6	73.2	69.5	65.5
50°	98.8	96.6	94.3	91.1	87.9	84.6	81.6	78.4	74.8	71.0	67.1
47.5°	99.9	97.9	95.5	92.4	89.3	86.3	83.6	80.2	76.5	72.7	68.8
45°	101.0	99.0	96.6	93.8	90.9	88.3	85.3	81.9	78.2	74.5	70.6
42.5°	102.2	100.2	97.9	95.3	92.9	90.2	87.0	83.7	80.2	76.4	72.7
40°	103.4	101.5	99.3	97.2	94.9	91.9	88.8	85.6	82.2	78.8	75.2
37.5°	104.7	102.9	100.9	99.1	96.6	93.7	90.7	87.6	84.6	81.7	77.7
35°	106.1	104.5	102.7	100.8	98.2	95.7	92.8	89.9	87.4	84.3	80.4
32.5°	107.6	106.1	104.7	102.3	100.0	97.7	95.0	92.6	90.1	87.0	83.3
30°	109.4	107.9	106.5	103.8	102.0	99.8	97.6	95.5	93.0	90.2	87.6
27.5°	112.0	109.8	107.9	105.6	104.1	102.1	100.5	98.5	96.5	94.2	92.3
25°	114.9	113.5	109.4	107.7	106.4	104.9	103.7	102.1	100.5	98.7	96.2
22.5°	118.0	117.7	114.2	109.9	108.8	108.0	107.2	106.3	105.4	103.7	100.0
20°	121.6	122.0	120.9	121.0	114.1	111.2	111.1	110.8	111.7	113.0	108.6
17.5°	125.4	126.9	129.8	135.1	136.0	129.4	115.2	115.4	119.2	127.4	130.4
15°	129.5	132.3	140.2	151.8	163.2	174.5	178.1	151.6	130.5	147.1	159.9
12.5°	133.7	138.0	151.7	170.6	194.8	229.8	276.1	322.9	342.2	271.3	196.4
10°	137.9	144.0	164.0	191.0	229.8	292.9	392.5	532.8	705.7	881.4	1010.9
7.5°	174.6	188.3	200.3	212.3	266.8	361.2	521.7	770.1	1124.0	1603.3	2307.2
5°	218.3	277.2	368.5	484.5	609.1	731.8	873.9	1034.8	1574.6	2394.7	3770.3
2.5°	263.0	369.0	542.6	805.9	1156.3	1585.0	2168.2	2921.1	3874.7	5063.4	6869.3
0°	307.3	460.5	716.1	1127.7	1705.9	2443.0	3471.2	4821.0	6539.4	8589.9	11276.1
-2.5°	488.7	744.5	1124.1	1686.4	2438.5	3423.1	4759.5	6400.6	8586.6	11444.6	14960.2
-5°	663.5	1017.4	1515.7	2220.2	3136.4	4351.7	5973.4	7889.1	10528.4	14067.2	18310.7
-7.5°	827.2	1272.1	1881.5	2728.4	3830.2	5293.7	7212.0	9473.9	12465.1	16387.7	21212.5
-10°	987.2	1548.8	2284.7	3265.3	4529.0	6191.2	8342.5	10890.2	14152.1	18375.8	23633.7
-12.5°	1207.4	1839.5	2661.1	3741.7	5141.2	6963.4	9305.5	12103.8	15544.3	19979.7	25531.8
-15°	1403.8	2094.6	2990.7	4147.6	5652.5	7590.3	10076.2	13086.4	16577.5	21183.5	26903.0
-17.5°	1572.8	2308.9	3267.2	4473.8	6050.2	8054.4	10602.0	13676.0	17263.3	22030.2	27915.3
-20°	1711.2	2478.0	3485.4	4712.7	6336.3	8359.0	10887.0	13998.8	17707.8	22393.2	28280.7



REPORT NUMBER: P1212210 (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°	1816.2	2598.0	3651.5	4920.8	6542.3	8546.3	11010.0	14049.7	17752.1	22185.1	28496.6
-25°	1895.4	2707.7	3768.0	5047.0	6632.3	8602.4	10947.3	13857.7	17510.1	22418.7	28477.4
-27.5°	1948.7	2771.5	3813.9	5091.4	6608.1	8549.3	10844.1	13628.7	17526.6	22338.2	27925.8
-30°	1964.8	2797.3	3798.1	5065.0	6567.3	8428.3	10637.8	13516.6	17274.0	21944.5	27331.0
-32.5°	1960.8	2784.1	3772.6	4996.6	6452.0	8170.5	10486.6	13352.9	16859.7	21117.5	26284.0
-35°	1953.4	2764.6	3717.1	4853.6	6243.3	7983.8	10273.7	12981.7	16167.3	20155.7	25026.8
-37.5°	1941.3	2710.1	3610.9	4684.9	6014.9	7796.6	9880.0	12473.9	15456.2	18986.9	23587.8
-40°	1899.5	2620.5	3499.0	4514.0	5806.9	7505.5	9500.8	11802.9	14570.1	17987.4	21906.6
-42.5°	1834.3	2539.6	3361.0	4305.1	5591.2	7140.0	8969.8	11127.9	13671.3	16750.0	20314.3
-45°	1788.0	2424.9	3191.3	4147.1	5315.3	6712.3	8407.7	10344.4	12737.4	15417.5	18577.8
-47.5°	1716.5	2293.4	3023.6	3913.4	4999.4	6283.1	7760.6	9613.2	11700.0	14133.0	16779.2
-50°	1629.8	2178.7	2826.5	3662.0	4634.8	5797.5	7151.6	8813.5	10724.7	12808.3	15154.6
-52.5°	1547.1	2035.9	2645.8	3374.1	4253.8	5275.2	6537.5	8024.9	9713.1	11565.9	13624.7
-55°	1441.4	1896.2	2438.5	3092.1	3857.5	4760.5	5894.8	7237.7	8661.5	10331.6	12118.1
-57.5°	1333.4	1733.9	2218.7	2797.2	3474.8	4254.3	5296.0	6435.0	7735.2	9118.0	10641.6
-60°	1216.3	1560.1	1979.9	2490.1	3078.1	3800.2	4668.6	5681.9	6796.7	7985.0	9309.2
-62.5°	1087.0	1382.6	1736.4	2161.4	2678.2	3306.4	4061.0	4913.9	5849.9	6895.9	8003.7
-65°	967.2	1195.7	1492.7	1849.6	2252.9	2816.9	3447.6	4131.3	4929.6	5799.3	6723.7
-67.5°	831.7	1024.9	1255.3	1530.6	1883.2	2331.1	2831.9	3422.1	4057.0	4732.8	5464.5
-70°	714.4	846.9	1028.8	1249.5	1514.9	1854.6	2269.3	2727.4	3229.3	3779.0	4380.2
-72.5°	596.3	705.7	829.1	965.7	1181.6	1450.5	1743.7	2059.6	2450.7	2907.0	3377.9
-75°	501.3	561.8	655.7	764.4	910.5	1083.5	1274.4	1525.2	1822.0	2151.1	2491.0
-77.5°	425.2	476.2	528.9	583.4	676.0	815.4	963.3	1118.9	1314.9	1533.8	1762.5
-80°	365.8	389.8	431.5	475.4	546.1	627.8	715.3	808.2	934.6	1087.2	1260.8
-82.5°	339.0	361.1	382.9	404.3	444.0	487.7	537.6	603.9	701.1	805.6	914.0
-85°	314.2	332.1	352.0	371.7	403.8	437.9	473.3	509.9	568.7	630.9	695.6
-87.5°	300.5	316.3	332.1	348.1	372.0	396.5	421.6	447.1	486.5	526.8	567.9
-90°	91.5	88.1	84.8	81.4	77.8	74.2	70.6	67.0	63.2	59.4	55.5



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	498.8	532.8	566.8	600.7	634.7	675.9	717.1	758.2	799.4	829.1	858.8
87.5°	52.6	48.8	45.0	41.2	37.3	33.5	29.7	25.8	22.0	18.7	15.3
85°	52.2	48.3	44.5	40.6	36.7	33.0	29.4	25.7	22.1	18.7	15.4
82.5°	52.1	48.2	44.4	40.5	36.7	32.9	29.1	25.2	21.4	18.0	14.6
80°	52.3	48.5	44.6	40.8	36.9	33.1	29.2	25.3	21.4	18.0	14.6
77.5°	52.7	48.8	45.0	41.1	37.2	33.3	29.4	25.5	21.6	18.1	14.7
75°	53.1	49.3	45.4	41.5	37.6	33.7	29.7	25.8	21.9	18.3	14.9
72.5°	53.7	49.8	45.9	41.8	37.7	33.7	29.8	25.9	22.1	18.5	15.0
70°	54.3	50.3	46.1	41.9	37.7	33.6	29.7	25.8	21.8	18.1	14.7
67.5°	55.0	51.0	46.8	42.6	38.3	34.1	30.0	26.0	21.9	18.1	14.5
65°	55.8	51.9	47.6	43.3	39.0	34.7	30.6	26.5	22.3	18.4	14.8
62.5°	56.7	52.8	48.5	44.2	39.9	35.5	31.3	27.1	22.9	18.8	15.1
60°	57.8	53.7	49.6	45.2	40.8	36.3	32.0	27.8	23.5	19.2	15.4
57.5°	58.9	54.9	50.7	46.3	41.8	37.3	32.9	28.5	24.1	19.7	15.8
55°	60.2	56.1	52.0	47.3	42.7	38.2	33.8	29.4	24.9	20.3	16.3
52.5°	61.5	57.2	52.6	48.1	43.7	39.3	34.9	30.3	25.7	21.0	16.8
50°	62.9	58.4	54.0	49.5	45.2	40.8	36.1	31.4	26.6	21.8	17.4
47.5°	64.6	60.2	55.9	51.8	47.2	42.3	37.4	32.6	27.7	22.8	18.0
45°	66.5	62.3	58.1	53.3	48.3	43.6	38.8	33.9	28.9	23.8	18.8
42.5°	68.7	64.4	59.7	55.0	50.1	45.4	40.5	35.4	30.3	24.9	19.6
40°	71.0	66.6	62.0	57.3	52.3	47.3	42.3	37.1	31.8	26.3	20.6
37.5°	73.5	69.1	64.8	60.2	55.0	49.5	44.6	39.2	33.5	27.8	21.9
35°	76.3	72.6	68.4	63.6	58.4	52.9	47.6	41.8	35.5	29.9	23.9
32.5°	80.4	76.9	72.3	67.6	62.5	56.7	51.1	45.5	39.6	33.7	27.7
30°	85.2	80.7	76.3	71.7	65.9	60.7	55.9	50.7	45.3	39.2	31.4
27.5°	88.8	84.6	80.1	74.5	70.1	65.8	61.2	56.1	48.7	41.2	32.5
25°	92.5	88.5	83.0	78.5	75.0	70.7	65.0	58.1	49.5	40.7	32.3
22.5°	96.5	91.8	86.9	83.3	80.0	74.4	67.4	58.5	49.7	41.1	33.1
20°	100.5	95.3	92.7	92.5	84.5	78.0	69.3	60.0	51.3	43.7	36.3
17.5°	121.1	101.3	105.8	113.6	103.0	82.7	80.5	68.9	57.4	50.3	41.6
15°	160.5	178.5	180.9	145.4	146.5	134.0	108.4	108.7	91.4	87.3	72.9
12.5°	233.3	340.8	548.2	757.7	262.4	230.9	506.5	357.8	365.5	256.3	285.3
10°	960.8	617.7	1348.6	2516.1	3572.3	3390.7	1778.6	4096.5	3997.4	4652.7	2863.4
7.5°	3337.3	4157.6	5056.1	6137.4	8795.8	12079.8	13848.7	15930.3	19534.5	22589.8	26145.6
5°	6091.1	8424.1	11352.2	14375.5	18700.7	23378.7	28599.4	34153.4	39431.6	46051.7	51971.4
2.5°	10160.7	13688.0	18424.7	22993.7	29194.2	35327.9	43047.6	51460.7	58620.4	66522.1	71778.9
0°	15853.0	20852.0	27888.2	34957.0	43701.0	51887.9	62044.0	72448.9	82272.8	94431.5	102775.4
-2.5°	20060.7	26268.2	33742.2	42482.4	51845.9	61206.0	71994.0	83781.9	94791.7	107071.6	118209.3
-5°	23937.4	30775.1	38519.4	47292.6	56495.7	65715.9	76130.5	87897.1	100016.1	110522.4	120183.7
-7.5°	27346.3	34569.7	42571.8	51324.5	60670.7	70860.4	82229.3	94466.1	105297.3	116037.2	125173.8
-10°	30159.2	37742.6	46065.8	55332.1	65575.0	76387.1	88335.5	101000.2	112568.2	123896.6	133623.3
-12.5°	32390.7	40214.8	48830.9	58370.6	69231.1	81224.0	94038.4	107028.1	119420.1	132027.6	141509.1
-15°	34086.2	42022.9	50780.4	60967.4	72736.6	85301.3	98265.0	112146.6	125822.0	138108.6	148867.1
-17.5°	35115.0	43284.6	52576.1	62980.2	74884.1	87748.2	101154.0	115020.4	129603.0	143215.5	154096.6
-20°	35521.8	44231.9	53639.1	63981.7	75651.8	88530.6	102189.8	116459.1	131482.2	144871.7	156382.5



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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°	35901.6	44317.0	53598.4	64060.6	75572.1	88056.3	101412.1	116126.3	130816.2	143918.9	155821.1
-25°	35695.9	43708.6	52810.8	63035.4	74203.1	86488.1	99932.8	114098.2	127649.8	140839.3	151950.5
-27.5°	34899.0	42758.6	51421.5	61076.0	71639.5	83523.6	96503.4	109941.5	122619.1	135465.1	145278.8
-30°	33474.1	41184.2	49480.9	58416.9	68402.2	79370.3	91329.4	103458.0	115621.1	127083.7	136152.8
-32.5°	32306.9	39038.8	46872.3	55313.1	64410.6	74406.0	84893.2	95938.3	107089.7	116931.3	125541.0
-35°	30712.8	36969.9	43774.4	51631.2	60091.4	68987.0	78193.6	87961.8	97864.7	106320.6	114341.6
-37.5°	28742.4	34564.5	40791.4	47386.2	55010.9	63173.6	71350.3	79809.0	88100.1	95720.9	102966.6
-40°	26635.6	31768.8	37422.2	43435.5	49864.7	56521.9	64002.7	71484.1	78417.5	85094.2	91530.3
-42.5°	24368.7	28958.6	33778.9	39153.6	44899.8	50879.5	57036.2	63238.6	69192.3	75040.6	80317.0
-45°	22114.4	26168.2	30412.3	35031.4	39740.5	45026.5	50490.4	55837.6	60849.9	65797.7	70055.7
-47.5°	20003.6	23470.8	27286.9	31250.3	35426.1	39826.3	44188.2	48450.9	52943.8	57213.5	60487.6
-50°	17931.1	21003.5	24328.6	27682.2	31217.3	35015.1	38962.7	42505.5	45989.5	49468.5	51945.9
-52.5°	15855.6	18532.1	21428.6	24371.5	27343.6	30353.9	33352.7	36419.5	39448.4	42349.8	44235.6
-55°	14068.4	16206.2	18465.5	21056.0	23704.1	26314.0	28866.2	31396.1	33833.3	36164.3	37471.0
-57.5°	12347.1	14107.4	15969.0	18047.9	20238.2	22517.7	24685.5	26759.9	28836.2	30795.9	31756.3
-60°	10716.6	12198.7	13784.1	15392.0	17045.9	18737.9	20637.3	22445.2	24157.0	25623.8	26486.6
-62.5°	9166.2	10428.7	11726.6	13040.5	14377.1	15773.5	17212.3	18657.9	20095.2	21300.4	22056.9
-65°	7712.5	8766.6	9794.3	10854.1	11942.9	13093.4	14220.0	15341.6	16447.8	17313.4	17871.2
-67.5°	6291.3	7149.7	7990.4	8820.0	9693.4	10611.2	11533.6	12432.5	13303.0	13944.0	14386.4
-70°	5006.1	5657.1	6336.4	7048.3	7779.6	8491.2	9195.8	9898.2	10592.3	11088.7	11451.2
-72.5°	3861.2	4355.6	4870.2	5432.3	6004.2	6583.1	7150.3	7699.0	8227.4	8600.5	8904.2
-75°	2840.3	3214.4	3629.0	4046.6	4464.7	4901.3	5345.1	5785.0	6218.0	6489.6	6701.4
-77.5°	2027.9	2318.3	2614.3	2912.8	3212.3	3525.6	3841.2	4153.6	4461.0	4676.6	4869.2
-80°	1441.1	1635.5	1835.2	2037.5	2241.3	2455.3	2671.9	2888.3	3103.3	3239.0	3360.6
-82.5°	1025.8	1151.5	1280.7	1411.8	1544.4	1682.0	1819.2	1955.0	2089.2	2175.8	2257.3
-85°	762.3	842.6	924.9	1008.5	1093.1	1190.0	1288.6	1387.8	1487.5	1545.8	1601.8
-87.5°	609.7	664.2	719.6	775.6	832.1	892.4	952.8	1013.3	1073.7	1115.8	1157.4
-90°	51.7	48.1	44.5	40.9	37.3	33.5	29.7	25.8	22.0	18.7	15.3



REPORT NUMBER: P1212210 (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°	888.4	918.1	924.3	930.5	924.3	918.1	888.4	858.8	829.1	799.4	758.2
87.5°	12.0	8.6	6.2	3.8	6.2	8.6	12.0	15.3	18.7	22.0	25.8
85°	12.0	8.6	6.2	3.8	6.2	8.6	12.0	15.4	18.7	22.1	25.7
82.5°	11.2	7.8	5.8	3.8	5.8	7.8	11.2	14.6	18.0	21.4	25.2
80°	11.2	7.8	5.8	3.8	5.8	7.8	11.2	14.6	18.0	21.4	25.3
77.5°	11.3	7.9	5.8	3.8	5.8	7.9	11.3	14.7	18.1	21.6	25.5
75°	11.4	7.9	5.4	2.9	5.4	7.9	11.4	14.9	18.3	21.9	25.8
72.5°	11.5	8.0	5.4	2.9	5.4	8.0	11.5	15.0	18.5	22.1	25.9
70°	11.4	8.1	5.5	2.9	5.5	8.1	11.4	14.7	18.1	21.8	25.8
67.5°	10.9	7.3	4.5	1.9	4.5	7.3	10.9	14.5	18.1	21.9	26.0
65°	11.1	7.4	4.1	1.0	4.1	7.4	11.1	14.8	18.4	22.3	26.5
62.5°	11.3	7.5	4.2	1.0	4.2	7.5	11.3	15.1	18.8	22.9	27.1
60°	11.6	7.7	4.3	1.0	4.3	7.7	11.6	15.4	19.2	23.5	27.8
57.5°	11.9	7.9	4.0	0.0	4.0	7.9	11.9	15.8	19.7	24.1	28.5
55°	12.2	8.2	4.1	0.0	4.1	8.2	12.2	16.3	20.3	24.9	29.4
52.5°	12.6	8.4	4.2	0.0	4.2	8.4	12.6	16.8	21.0	25.7	30.3
50°	13.1	8.7	4.4	0.0	4.4	8.7	13.1	17.4	21.8	26.6	31.4
47.5°	13.6	9.1	4.5	0.0	4.5	9.1	13.6	18.0	22.8	27.7	32.6
45°	14.1	9.5	4.7	0.0	4.7	9.5	14.1	18.8	23.8	28.9	33.9
42.5°	14.8	9.9	5.0	0.0	5.0	9.9	14.8	19.6	24.9	30.3	35.4
40°	15.5	10.4	5.2	0.0	5.2	10.4	15.5	20.6	26.3	31.8	37.1
37.5°	16.4	11.0	5.5	0.0	5.5	11.0	16.4	21.9	27.8	33.5	39.2
35°	17.9	11.9	6.0	1.0	6.0	11.9	17.9	23.9	29.9	35.5	41.8
32.5°	21.1	14.3	7.2	1.0	7.2	14.3	21.1	27.7	33.7	39.6	45.5
30°	23.5	15.7	7.7	1.0	7.7	15.7	23.5	31.4	39.2	45.3	50.7
27.5°	24.1	16.4	9.1	2.9	9.1	16.4	24.1	32.5	41.2	48.7	56.1
25°	24.1	16.0	8.0	2.9	8.0	16.0	24.1	32.3	40.7	49.5	58.1
22.5°	25.4	17.3	8.7	4.8	8.7	17.3	25.4	33.1	41.1	49.7	58.5
20°	28.2	20.1	12.1	7.7	12.1	20.1	28.2	36.3	43.7	51.3	60.0
17.5°	37.1	27.6	18.7	14.4	18.7	27.6	37.1	41.6	50.3	57.4	68.9
15°	69.1	58.2	47.4	44.0	47.4	58.2	69.1	72.9	87.3	91.4	108.7
12.5°	161.6	144.4	133.8	119.2	133.8	144.4	161.6	285.3	256.3	365.5	357.8
10°	4262.5	4315.5	4840.7	3448.2	4840.7	4315.5	4262.5	2863.4	4652.7	3997.4	4096.5
7.5°	28912.9	32392.2	33780.8	33255.9	33780.8	32392.2	28912.9	26145.6	22589.8	19534.5	15930.3
5°	58374.1	64334.2	66051.1	66798.9	66051.1	64334.2	58374.1	51971.4	46051.7	39431.6	34153.4
2.5°	79059.7	84275.3	86076.5	87091.0	86076.5	84275.3	79059.7	71778.9	66522.1	58620.4	51460.7
0°	112263.7	119260.2	121441.9	121892.8	121441.9	119260.2	112263.7	102775.4	94431.5	82272.8	72448.9
-2.5°	128716.9	136312.5	139092.7	139065.0	139092.7	136312.5	128716.9	118209.3	107071.6	94791.7	83781.9
-5°	129002.9	134843.9	136888.7	137740.1	136888.7	134843.9	129002.9	120183.7	110522.4	100016.1	87897.1
-7.5°	133429.0	138450.9	139823.6	139837.5	139823.6	138450.9	133429.0	125173.8	116037.2	105297.3	94466.1
-10°	141169.9	146147.5	147483.2	147504.6	147483.2	146147.5	141169.9	133623.3	123896.6	112568.2	101000.2
-12.5°	149432.9	154887.9	157030.0	157492.1	157030.0	154887.9	149432.9	141509.1	132027.6	119420.1	107028.1
-15°	157317.0	163080.5	165980.9	166746.4	165980.9	163080.5	157317.0	148867.1	138108.6	125822.0	112146.6
-17.5°	162909.7	169817.2	173225.4	174420.2	173225.4	169817.2	162909.7	154096.6	143215.5	129603.0	115020.4
-20°	165546.2	173229.4	176674.3	177884.7	176674.3	173229.4	165546.2	156382.5	144871.7	131482.2	116459.1



REPORT NUMBER: P1212210 (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°	164510.4	171602.1	175716.7	177360.1	175716.7	171602.1	164510.4	155821.1	143918.9	130816.2	116126.3
-25°	160927.2	167314.8	171589.6	172712.4	171589.6	167314.8	160927.2	151950.5	140839.3	127649.8	114098.2
-27.5°	154355.6	159968.5	164131.5	165642.7	164131.5	159968.5	154355.6	145278.8	135465.1	122619.1	109941.5
-30°	144724.0	149932.3	154228.8	154689.2	154228.8	149932.3	144724.0	136152.8	127083.7	115621.1	103458.0
-32.5°	132828.6	137736.0	141742.3	141886.2	141742.3	137736.0	132828.6	125541.0	116931.3	107089.7	95938.3
-35°	120391.9	124309.0	127333.7	128795.0	127333.7	124309.0	120391.9	114341.6	106320.6	97864.7	87961.8
-37.5°	107858.8	111381.7	114008.5	115047.1	114008.5	111381.7	107858.8	102966.6	95720.9	88100.1	79809.0
-40°	95425.4	98464.6	100623.2	101578.8	100623.2	98464.6	95425.4	91530.3	85094.2	78417.5	71484.1
-42.5°	83484.7	86236.7	88092.3	88646.5	88092.3	86236.7	83484.7	80317.0	75040.6	69192.3	63238.6
-45°	72686.6	74917.1	76180.6	76216.9	76180.6	74917.1	72686.6	70055.7	65797.7	60849.9	55837.6
-47.5°	62645.6	64496.5	65625.9	65956.5	65625.9	64496.5	62645.6	60487.6	57213.5	52943.8	48450.9
-50°	53672.5	55131.1	56008.9	56324.1	56008.9	55131.1	53672.5	51945.9	49468.5	45989.5	42505.5
-52.5°	45671.4	46863.1	47530.0	47752.3	47530.0	46863.1	45671.4	44235.6	42349.8	39448.4	36419.5
-55°	38650.5	39713.3	40436.1	40848.2	40436.1	39713.3	38650.5	37471.0	36164.3	33833.3	31396.1
-57.5°	32535.3	33141.7	33759.6	34314.6	33759.6	33141.7	32535.3	31756.3	30795.9	28836.2	26759.9
-60°	27240.1	27882.1	28299.7	28563.1	28299.7	27882.1	27240.1	26486.6	25623.8	24157.0	22445.2
-62.5°	22735.3	23327.6	23672.0	23866.6	23672.0	23327.6	22735.3	22056.9	21300.4	20095.2	18657.9
-65°	18361.9	18782.8	19091.2	19316.5	19091.2	18782.8	18361.9	17871.2	17313.4	16447.8	15341.6
-67.5°	14778.9	15119.5	15328.2	15468.2	15328.2	15119.5	14778.9	14386.4	13944.0	13303.0	12432.5
-70°	11772.7	12053.0	12173.3	12236.3	12173.3	12053.0	11772.7	11451.2	11088.7	10592.3	9898.2
-72.5°	9184.4	9438.0	9502.4	9517.5	9502.4	9438.0	9184.4	8904.2	8600.5	8227.4	7699.0
-75°	6889.5	7054.4	7091.0	7098.4	7091.0	7054.4	6889.5	6701.4	6489.6	6218.0	5785.0
-77.5°	5050.6	5219.4	5229.1	5215.4	5229.1	5219.4	5050.6	4869.2	4676.6	4461.0	4153.6
-80°	3474.6	3580.7	3607.7	3623.4	3607.7	3580.7	3474.6	3360.6	3239.0	3103.3	2888.3
-82.5°	2335.8	2410.9	2423.7	2431.6	2423.7	2410.9	2335.8	2257.3	2175.8	2089.2	1955.0
-85°	1656.5	1709.6	1707.4	1703.0	1707.4	1709.6	1656.5	1601.8	1545.8	1487.5	1387.8
-87.5°	1198.7	1239.4	1247.5	1255.0	1247.5	1239.4	1198.7	1157.4	1115.8	1073.7	1013.3
-90°	12.0	8.6	6.2	3.8	6.2	8.6	12.0	15.3	18.7	22.0	25.8



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	717.1	675.9	634.7	600.7	566.8	532.8	498.8	473.4	448.1	422.7	397.3
87.5°	29.7	33.5	37.3	41.2	45.0	48.8	52.6	56.4	60.2	64.0	67.7
85°	29.4	33.0	36.7	40.6	44.5	48.3	52.2	56.3	60.3	64.2	68.2
82.5°	29.1	32.9	36.7	40.5	44.4	48.2	52.1	56.1	60.1	64.2	68.2
80°	29.2	33.1	36.9	40.8	44.6	48.5	52.3	56.2	60.0	63.9	67.8
77.5°	29.4	33.3	37.2	41.1	45.0	48.8	52.7	56.5	60.4	64.2	68.1
75°	29.7	33.7	37.6	41.5	45.4	49.3	53.1	57.0	60.9	64.7	68.5
72.5°	29.8	33.7	37.7	41.8	45.9	49.8	53.7	57.5	61.4	65.2	69.1
70°	29.7	33.6	37.7	41.9	46.1	50.3	54.3	58.2	62.0	65.9	69.7
67.5°	30.0	34.1	38.3	42.6	46.8	51.0	55.0	58.9	62.8	66.6	70.4
65°	30.6	34.7	39.0	43.3	47.6	51.9	55.8	59.7	63.6	67.5	71.1
62.5°	31.3	35.5	39.9	44.2	48.5	52.8	56.7	60.7	64.6	68.3	71.9
60°	32.0	36.3	40.8	45.2	49.6	53.7	57.8	61.7	65.6	69.3	72.9
57.5°	32.9	37.3	41.8	46.3	50.7	54.9	58.9	62.9	66.8	70.4	74.0
55°	33.8	38.2	42.7	47.3	52.0	56.1	60.2	64.1	68.0	71.6	75.2
52.5°	34.9	39.3	43.7	48.1	52.6	57.2	61.5	65.5	69.5	73.2	76.6
50°	36.1	40.8	45.2	49.5	54.0	58.4	62.9	67.1	71.0	74.8	78.4
47.5°	37.4	42.3	47.2	51.8	55.9	60.2	64.6	68.8	72.7	76.5	80.2
45°	38.8	43.6	48.3	53.3	58.1	62.3	66.5	70.6	74.5	78.2	81.9
42.5°	40.5	45.4	50.1	55.0	59.7	64.4	68.7	72.7	76.4	80.2	83.7
40°	42.3	47.3	52.3	57.3	62.0	66.6	71.0	75.2	78.8	82.2	85.6
37.5°	44.6	49.5	55.0	60.2	64.8	69.1	73.5	77.7	81.7	84.6	87.6
35°	47.6	52.9	58.4	63.6	68.4	72.6	76.3	80.4	84.3	87.4	89.9
32.5°	51.1	56.7	62.5	67.6	72.3	76.9	80.4	83.3	87.0	90.1	92.6
30°	55.9	60.7	65.9	71.7	76.3	80.7	85.2	87.6	90.2	93.0	95.5
27.5°	61.2	65.8	70.1	74.5	80.1	84.6	88.8	92.3	94.2	96.5	98.5
25°	65.0	70.7	75.0	78.5	83.0	88.5	92.5	96.2	98.7	100.5	102.1
22.5°	67.4	74.4	80.0	83.3	86.9	91.8	96.5	100.0	103.7	105.4	106.3
20°	69.3	78.0	84.5	92.5	92.7	95.3	100.5	108.6	113.0	111.7	110.8
17.5°	80.5	82.7	103.0	113.6	105.8	101.3	121.1	130.4	127.4	119.2	115.4
15°	108.4	134.0	146.5	145.4	180.9	178.5	160.5	159.9	147.1	130.5	151.6
12.5°	506.5	230.9	262.4	757.7	548.2	340.8	233.3	196.4	271.3	342.2	322.9
10°	1778.6	3390.7	3572.3	2516.1	1348.6	617.7	960.8	1010.9	881.4	705.7	532.8
7.5°	13848.7	12079.8	8795.8	6137.4	5056.1	4157.6	3337.3	2307.2	1603.3	1124.0	770.1
5°	28599.4	23378.7	18700.7	14375.5	11352.2	8424.1	6091.1	3770.3	2394.7	1574.6	1034.8
2.5°	43047.6	35327.9	29194.2	22993.7	18424.7	13688.0	10160.7	6869.3	5063.4	3874.7	2921.1
0°	62044.0	51887.9	43701.0	34957.0	27888.2	20852.0	15853.0	11276.1	8589.9	6539.4	4821.0
-2.5°	71994.0	61206.0	51845.9	42482.4	33742.2	26268.2	20060.7	14960.2	11444.6	8586.6	6400.6
-5°	76130.5	65715.9	56495.7	47292.6	38519.4	30775.1	23937.4	18310.7	14067.2	10528.4	7889.1
-7.5°	82229.3	70860.4	60670.7	51324.5	42571.8	34569.7	27346.3	21212.5	16387.7	12465.1	9473.9
-10°	88335.5	76387.1	65575.0	55332.1	46065.8	37742.6	30159.2	23633.7	18375.8	14152.1	10890.2
-12.5°	94038.4	81224.0	69231.1	58370.6	48830.9	40214.8	32390.7	25531.8	19979.7	15544.3	12103.8
-15°	98265.0	85301.3	72736.6	60967.4	50780.4	42022.9	34086.2	26903.0	21183.5	16577.5	13086.4
-17.5°	101154.0	87748.2	74884.1	62980.2	52576.1	43284.6	35115.0	27915.3	22030.2	17263.3	13676.0
-20°	102189.8	88530.6	75651.8	63981.7	53639.1	44231.9	35521.8	28280.7	22393.2	17707.8	13998.8



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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°	101412.1	88056.3	75572.1	64060.6	53598.4	44317.0	35901.6	28496.6	22185.1	17752.1	14049.7
-25°	99932.8	86488.1	74203.1	63035.4	52810.8	43708.6	35695.9	28477.4	22418.7	17510.1	13857.7
-27.5°	96503.4	83523.6	71639.5	61076.0	51421.5	42758.6	34899.0	27925.8	22338.2	17526.6	13628.7
-30°	91329.4	79370.3	68402.2	58416.9	49480.9	41184.2	33474.1	27331.0	21944.5	17274.0	13516.6
-32.5°	84893.2	74406.0	64410.6	55313.1	46872.3	39038.8	32306.9	26284.0	21117.5	16859.7	13352.9
-35°	78193.6	68987.0	60091.4	51631.2	43774.4	36969.9	30712.8	25026.8	20155.7	16167.3	12981.7
-37.5°	71350.3	63173.6	55010.9	47386.2	40791.4	34564.5	28742.4	23587.8	18986.9	15456.2	12473.9
-40°	64002.7	56521.9	49864.7	43435.5	37422.2	31768.8	26635.6	21906.6	17987.4	14570.1	11802.9
-42.5°	57036.2	50879.5	44899.8	39153.6	33778.9	28958.6	24368.7	20314.3	16750.0	13671.3	11127.9
-45°	50490.4	45026.5	39740.5	35031.4	30412.3	26168.2	22114.4	18577.8	15417.5	12737.4	10344.4
-47.5°	44188.2	39826.3	35426.1	31250.3	27286.9	23470.8	20003.6	16779.2	14133.0	11700.0	9613.2
-50°	38962.7	35015.1	31217.3	27682.2	24328.6	21003.5	17931.1	15154.6	12808.3	10724.7	8813.5
-52.5°	33352.7	30353.9	27343.6	24371.5	21428.6	18532.1	15855.6	13624.7	11565.9	9713.1	8024.9
-55°	28866.2	26314.0	23704.1	21056.0	18465.5	16206.2	14068.4	12118.1	10331.6	8661.5	7237.7
-57.5°	24685.5	22517.7	20238.2	18047.9	15969.0	14107.4	12347.1	10641.6	9118.0	7735.2	6435.0
-60°	20637.3	18737.9	17045.9	15392.0	13784.1	12198.7	10716.6	9309.2	7985.0	6796.7	5681.9
-62.5°	17212.3	15773.5	14377.1	13040.5	11726.6	10428.7	9166.2	8003.7	6895.9	5849.9	4913.9
-65°	14220.0	13093.4	11942.9	10854.1	9794.3	8766.6	7712.5	6723.7	5799.3	4929.6	4131.3
-67.5°	11533.6	10611.2	9693.4	8820.0	7990.4	7149.7	6291.3	5464.5	4732.8	4057.0	3422.1
-70°	9195.8	8491.2	7779.6	7048.3	6336.4	5657.1	5006.1	4380.2	3779.0	3229.3	2727.4
-72.5°	7150.3	6583.1	6004.2	5432.3	4870.2	4355.6	3861.2	3377.9	2907.0	2450.7	2059.6
-75°	5345.1	4901.3	4464.7	4046.6	3629.0	3214.4	2840.3	2491.0	2151.1	1822.0	1525.2
-77.5°	3841.2	3525.6	3212.3	2912.8	2614.3	2318.3	2027.9	1762.5	1533.8	1314.9	1118.9
-80°	2671.9	2455.3	2241.3	2037.5	1835.2	1635.5	1441.1	1260.8	1087.2	934.6	808.2
-82.5°	1819.2	1682.0	1544.4	1411.8	1280.7	1151.5	1025.8	914.0	805.6	701.1	603.9
-85°	1288.6	1190.0	1093.1	1008.5	924.9	842.6	762.3	695.6	630.9	568.7	509.9
-87.5°	952.8	892.4	832.1	775.6	719.6	664.2	609.7	567.9	526.8	486.5	447.1
-90°	29.7	33.5	37.3	40.9	44.5	48.1	51.7	55.5	59.4	63.2	67.0



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**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	379.8	362.4	344.9	327.4	313.8	300.1	286.5	272.8	256.1	239.3	222.5
87.5°	71.3	74.8	78.4	81.9	85.1	88.4	91.6	94.8	97.2	99.6	101.9
85°	71.7	75.3	78.9	82.4	85.5	88.7	91.8	94.9	97.2	99.6	102.0
82.5°	71.9	75.5	79.1	82.6	85.7	88.8	91.9	95.0	97.4	99.7	102.1
80°	71.7	75.5	79.2	82.8	85.9	89.0	92.1	95.1	97.6	100.0	102.3
77.5°	71.9	75.7	79.5	83.1	86.2	89.3	92.4	95.3	97.9	100.3	102.7
75°	72.3	76.1	79.9	83.5	86.5	89.6	92.7	95.6	98.2	100.7	103.1
72.5°	72.9	76.7	80.5	83.9	86.9	90.0	93.0	95.9	98.4	100.9	103.5
70°	73.5	77.3	81.1	84.4	87.4	90.4	93.5	96.2	98.7	101.2	103.7
67.5°	74.3	78.0	81.8	84.9	87.9	91.0	93.9	96.6	99.1	101.5	104.0
65°	74.8	78.6	82.5	85.6	88.5	91.5	94.5	97.0	99.4	101.9	104.3
62.5°	75.5	79.1	82.8	86.2	89.2	92.2	95.0	97.6	99.9	102.3	104.6
60°	76.5	80.0	83.3	86.6	89.9	92.8	95.7	98.2	100.5	102.7	105.0
57.5°	77.5	81.0	84.3	87.4	90.5	93.6	96.4	98.9	101.3	103.3	105.4
55°	78.7	82.1	85.5	88.6	91.5	94.4	97.2	99.7	102.0	104.1	105.7
52.5°	79.9	83.3	86.6	89.9	92.8	95.4	98.0	100.6	102.9	104.9	106.3
50°	81.6	84.6	87.9	91.1	94.3	96.6	98.8	101.4	103.8	105.7	106.8
47.5°	83.6	86.3	89.3	92.4	95.5	97.9	99.9	102.3	104.7	106.6	107.4
45°	85.3	88.3	90.9	93.8	96.6	99.0	101.0	103.2	105.6	107.3	108.1
42.5°	87.0	90.2	92.9	95.3	97.9	100.2	102.2	104.2	106.4	108.1	108.7
40°	88.8	91.9	94.9	97.2	99.3	101.5	103.4	105.2	107.3	108.8	109.4
37.5°	90.7	93.7	96.6	99.1	100.9	102.9	104.7	106.2	108.2	109.6	110.1
35°	92.8	95.7	98.2	100.8	102.7	104.5	106.1	107.3	109.2	110.4	110.9
32.5°	95.0	97.7	100.0	102.3	104.7	106.1	107.6	109.1	110.4	111.4	111.7
30°	97.6	99.8	102.0	103.8	106.5	107.9	109.4	111.0	111.7	112.4	112.5
27.5°	100.5	102.1	104.1	105.6	107.9	109.8	112.0	113.2	113.1	113.6	113.3
25°	103.7	104.9	106.4	107.7	109.4	113.5	114.9	115.6	114.9	114.8	114.3
22.5°	107.2	108.0	108.8	109.9	114.2	117.7	118.0	118.1	116.9	116.1	115.2
20°	111.1	111.2	114.1	121.0	120.9	122.0	121.6	120.7	119.0	117.4	116.3
17.5°	115.2	129.4	136.0	135.1	129.8	126.9	125.4	123.5	121.2	118.8	117.3
15°	178.1	174.5	163.2	151.8	140.2	132.3	129.5	126.3	123.5	120.3	119.6
12.5°	276.1	229.8	194.8	170.6	151.7	138.0	133.7	129.2	125.8	124.0	123.7
10°	392.5	292.9	229.8	191.0	164.0	144.0	137.9	137.6	135.0	129.5	127.9
7.5°	521.7	361.2	266.8	212.3	200.3	188.3	174.6	158.4	145.6	135.2	132.1
5°	873.9	731.8	609.1	484.5	368.5	277.2	218.3	180.1	156.5	140.9	136.3
2.5°	2168.2	1585.0	1156.3	805.9	542.6	369.0	263.0	202.2	167.4	146.6	140.5
0°	3471.2	2443.0	1705.9	1127.7	716.1	460.5	307.3	224.0	178.1	152.2	144.6
-2.5°	4759.5	3423.1	2438.5	1686.4	1124.1	744.5	488.7	332.4	237.1	183.2	161.1
-5°	5973.4	4351.7	3136.4	2220.2	1515.7	1017.4	663.5	437.0	294.2	213.5	177.3
-7.5°	7212.0	5293.7	3830.2	2728.4	1881.5	1272.1	827.2	535.0	347.9	242.3	192.9
-10°	8342.5	6191.2	4529.0	3265.3	2284.7	1548.8	987.2	623.6	397.0	269.2	207.7
-12.5°	9305.5	6963.4	5141.2	3741.7	2661.1	1839.5	1207.4	757.2	448.3	293.4	221.5
-15°	10076.2	7590.3	5652.5	4147.6	2990.7	2094.6	1403.8	901.8	550.8	335.6	234.1
-17.5°	10602.0	8054.4	6050.2	4473.8	3267.2	2308.9	1572.8	1026.7	641.1	399.2	262.8
-20°	10887.0	8359.0	6336.3	4712.7	3485.4	2478.0	1711.2	1129.4	717.5	455.1	301.9



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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°	11010.0	8546.3	6542.3	4920.8	3651.5	2598.0	1816.2	1207.6	778.4	502.3	336.6
-25°	10947.3	8602.4	6632.3	5047.0	3768.0	2707.7	1895.4	1259.2	822.3	539.9	366.4
-27.5°	10844.1	8549.3	6608.1	5091.4	3813.9	2771.5	1948.7	1308.5	855.4	567.0	390.9
-30°	10637.8	8428.3	6567.3	5065.0	3798.1	2797.3	1964.8	1334.2	886.5	591.9	409.6
-32.5°	10486.6	8170.5	6452.0	4996.6	3772.6	2784.1	1960.8	1334.2	902.3	613.2	427.6
-35°	10273.7	7983.8	6243.3	4853.6	3717.1	2764.6	1953.4	1308.0	902.3	625.9	442.7
-37.5°	9880.0	7796.6	6014.9	4684.9	3610.9	2710.1	1941.3	1316.1	886.1	629.8	453.4
-40°	9500.8	7505.5	5806.9	4514.0	3499.0	2620.5	1899.5	1319.2	875.0	624.7	459.4
-42.5°	8969.8	7140.0	5591.2	4305.1	3361.0	2539.6	1834.3	1301.1	885.2	621.9	460.9
-45°	8407.7	6712.3	5315.3	4147.1	3191.3	2424.9	1788.0	1266.9	882.8	617.9	459.5
-47.5°	7760.6	6283.1	4999.4	3913.4	3023.6	2293.4	1716.5	1241.5	864.7	608.2	456.5
-50°	7151.6	5797.5	4634.8	3662.0	2826.5	2178.7	1629.8	1196.0	853.5	603.5	449.7
-52.5°	6537.5	5275.2	4253.8	3374.1	2645.8	2035.9	1547.1	1133.9	827.6	593.7	439.1
-55°	5894.8	4760.5	3857.5	3092.1	2438.5	1896.2	1441.4	1077.4	787.3	577.4	425.5
-57.5°	5296.0	4254.3	3474.8	2797.2	2218.7	1733.9	1333.4	1003.6	746.3	552.4	413.7
-60°	4668.6	3800.2	3078.1	2490.1	1979.9	1560.1	1216.3	921.6	698.0	521.5	399.6
-62.5°	4061.0	3306.4	2678.2	2161.4	1736.4	1382.6	1087.0	842.8	639.7	492.0	381.4
-65°	3447.6	2816.9	2252.9	1849.6	1492.7	1195.7	967.2	752.4	585.8	456.8	360.3
-67.5°	2831.9	2331.1	1883.2	1530.6	1255.3	1024.9	831.7	668.6	528.4	416.2	339.9
-70°	2269.3	1854.6	1514.9	1249.5	1028.8	846.9	714.4	583.9	464.8	384.3	317.2
-72.5°	1743.7	1450.5	1181.6	965.7	829.1	705.7	596.3	499.3	419.2	350.2	292.5
-75°	1274.4	1083.5	910.5	764.4	655.7	561.8	501.3	438.2	371.2	313.7	277.0
-77.5°	963.3	815.4	676.0	583.4	528.9	476.2	425.2	374.1	329.2	296.1	264.6
-80°	715.3	627.8	546.1	475.4	431.5	389.8	365.8	340.5	309.6	280.0	251.7
-82.5°	537.6	487.7	444.0	404.3	382.9	361.1	339.0	316.3	289.3	263.3	240.9
-85°	473.3	437.9	403.8	371.7	352.0	332.1	314.2	296.5	275.7	255.2	235.1
-87.5°	421.6	396.5	372.0	348.1	332.1	316.3	300.5	284.8	266.0	247.4	228.9
-90°	70.6	74.2	77.8	81.4	84.8	88.1	91.5	94.8	97.2	99.6	101.9



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	205.8	186.4	167.0	147.7	128.3	120.1	112.0
87.5°	104.3	105.8	107.3	108.7	110.2	111.1	112.0
85°	104.3	105.9	107.4	108.8	110.3	111.1	112.0
82.5°	104.4	106.0	107.5	109.0	110.3	111.1	112.0
80°	104.5	106.1	107.6	109.1	110.4	111.1	112.0
77.5°	104.8	106.2	107.7	109.2	110.5	111.2	112.0
75°	105.1	106.5	107.9	109.3	110.6	111.2	112.0
72.5°	105.5	106.7	108.0	109.5	110.7	111.2	112.0
70°	105.8	106.9	108.2	109.6	110.8	111.3	112.0
67.5°	106.0	107.2	108.4	109.7	110.9	111.3	112.0
65°	106.1	107.4	108.5	109.8	111.0	111.3	112.0
62.5°	106.4	107.6	108.7	110.0	111.1	111.3	112.0
60°	106.6	107.9	108.9	110.1	111.1	111.4	112.0
57.5°	106.9	108.1	109.1	110.2	111.2	111.4	112.0
55°	107.2	108.4	109.4	110.3	111.3	111.4	112.0
52.5°	107.5	108.7	109.6	110.4	111.3	111.5	112.0
50°	107.9	109.0	109.9	110.6	111.4	111.5	112.0
47.5°	108.3	109.3	110.2	110.7	111.5	111.5	112.0
45°	108.8	109.7	110.4	110.9	111.6	111.6	112.0
42.5°	109.3	110.1	110.8	111.2	111.8	111.6	112.0
40°	109.9	110.5	111.1	111.4	111.9	111.6	112.0
37.5°	110.4	110.9	111.4	111.8	112.1	111.6	112.0
35°	111.0	111.3	111.7	112.2	112.2	111.7	112.0
32.5°	111.5	111.8	112.1	112.6	112.4	111.7	112.0
30°	112.2	112.3	112.4	113.0	112.6	111.7	112.0
27.5°	112.9	112.7	113.2	113.4	112.7	111.7	112.0
25°	113.5	113.2	114.0	113.9	112.9	111.8	112.0
22.5°	114.2	114.0	115.0	114.3	113.1	111.8	112.0
20°	114.9	115.7	115.9	114.8	113.3	111.8	112.0
17.5°	116.8	117.5	116.9	115.3	113.5	111.8	112.0
15°	119.6	119.3	118.0	115.8	113.7	111.9	112.0
12.5°	122.4	121.3	119.1	116.3	113.9	111.9	112.0
10°	125.3	123.2	120.2	116.8	114.1	111.9	112.0
7.5°	128.2	125.3	121.2	117.3	114.3	111.9	112.0
5°	131.1	127.3	122.3	117.8	114.5	112.0	112.0
2.5°	134.0	129.3	123.4	118.2	114.7	112.0	112.0
0°	136.9	131.2	124.4	118.7	114.9	112.0	112.0
-2.5°	147.0	137.3	127.8	120.7	116.0	112.5	112.0
-5°	156.9	143.3	131.2	122.7	117.1	113.0	112.0
-7.5°	166.5	149.1	134.5	124.6	118.2	113.5	112.0
-10°	175.6	154.6	137.6	126.5	119.3	114.0	112.0
-12.5°	184.3	159.8	140.7	128.3	120.3	114.5	112.0
-15°	192.4	164.6	143.5	130.1	121.3	114.9	112.0
-17.5°	199.7	169.0	146.2	131.7	122.3	115.4	112.0
-20°	213.5	173.0	148.7	133.3	123.3	115.9	112.0



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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	237.5	176.3	150.9	134.8	124.2	116.3	112.0
-25°	259.2	187.3	152.9	136.3	125.1	116.7	112.0
-27.5°	278.3	200.4	154.7	137.6	125.9	117.1	112.0
-30°	294.6	212.0	156.8	138.8	126.7	117.5	112.0
-32.5°	308.0	221.9	164.1	139.8	127.4	117.9	112.0
-35°	319.5	230.0	170.4	140.8	128.1	118.3	112.0
-37.5°	328.8	237.0	175.8	141.6	128.7	118.6	112.0
-40°	335.3	243.3	180.3	142.4	129.3	118.9	112.0
-42.5°	339.0	248.1	184.1	143.7	129.8	119.2	112.0
-45°	339.9	251.2	187.4	146.1	130.3	119.4	112.0
-47.5°	338.0	252.7	189.7	148.0	130.7	119.7	112.0
-50°	336.5	252.6	191.1	149.8	131.1	119.9	112.0
-52.5°	333.1	250.9	191.6	151.4	131.4	120.1	112.0
-55°	327.4	248.8	191.2	152.7	131.6	120.3	112.0
-57.5°	319.5	245.5	189.9	153.6	131.8	120.4	112.0
-60°	309.7	240.9	187.8	154.2	131.9	120.5	112.0
-62.5°	299.9	234.9	187.3	154.6	132.0	120.6	112.0
-65°	288.3	227.8	186.3	154.6	131.9	120.7	112.0
-67.5°	275.0	222.0	184.8	154.3	131.8	120.7	112.0
-70°	260.2	218.0	182.8	153.8	131.6	120.7	112.0
-72.5°	251.6	213.3	180.5	153.5	131.4	120.7	112.0
-75°	243.2	208.1	177.7	153.1	131.1	120.7	112.0
-77.5°	234.1	202.4	176.2	152.5	130.7	120.7	112.0
-80°	224.4	198.7	174.7	151.8	130.3	120.6	112.0
-82.5°	219.6	195.9	173.1	151.0	129.9	120.5	112.0
-85°	215.3	193.0	171.2	150.0	129.4	120.4	112.0
-87.5°	210.7	189.8	169.2	148.9	128.9	120.3	112.0
-90°	104.3	105.8	107.2	108.7	110.1	111.1	112.0

(END OF REPORT)