

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: P701598 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-57-80-5S-VHE-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701598 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-976-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-57-80-5S-VHE-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 5S BEAM SHAPE WITH ANODIZED CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

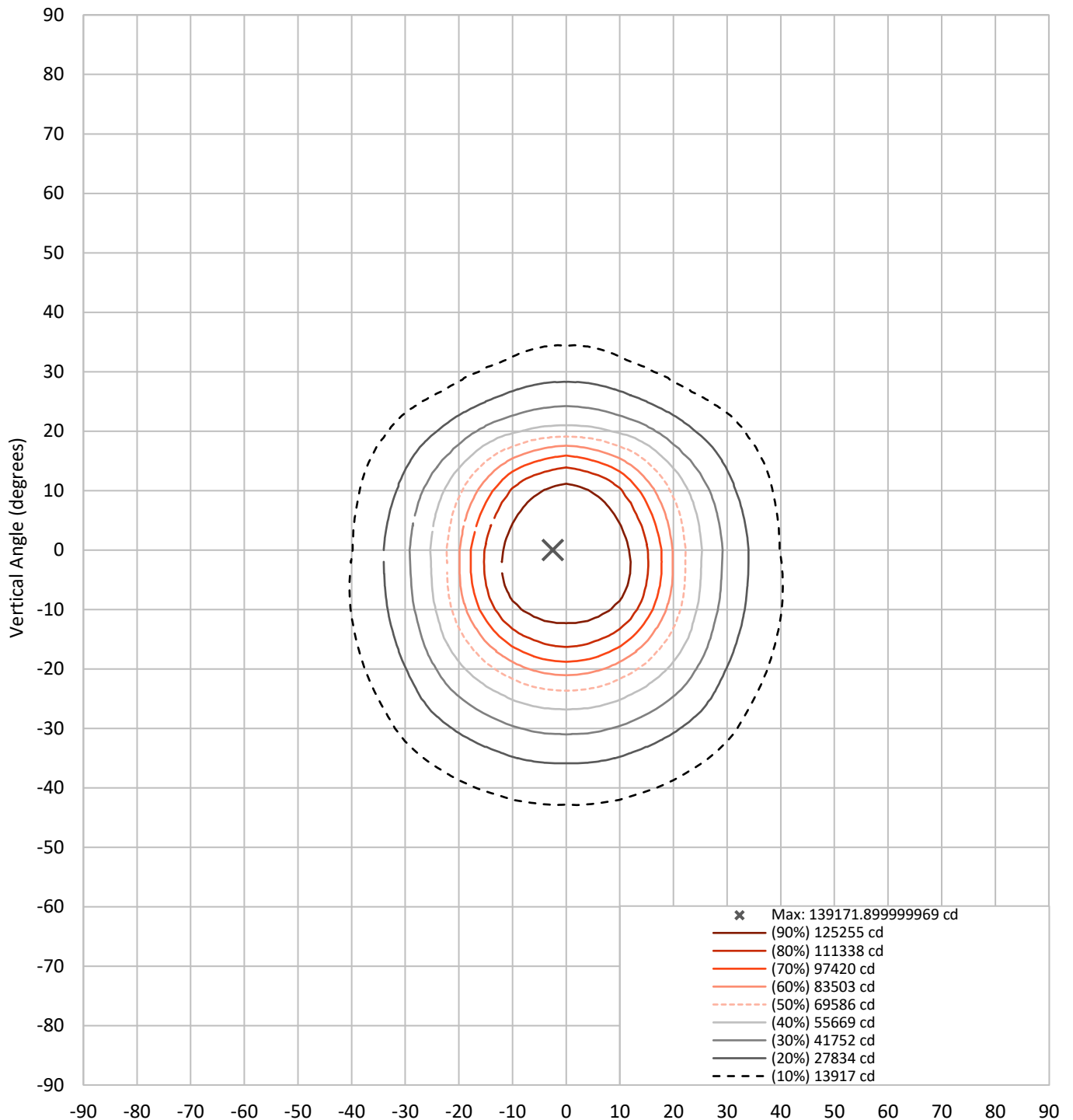
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	90619.8 lumens	Max Intensity:	139171.9 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 0°V
Efficacy:	137.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	44.5°H x 42.5°V	Field Angle (10%):	79.6°H x 77.3°V
Beam Lumens:	49758.8 lumens	Field Lumens:	83268.5 lumens
Beam Efficiency:	54.9%	Field Efficiency:	91.9%

Input Watts (W): 658
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





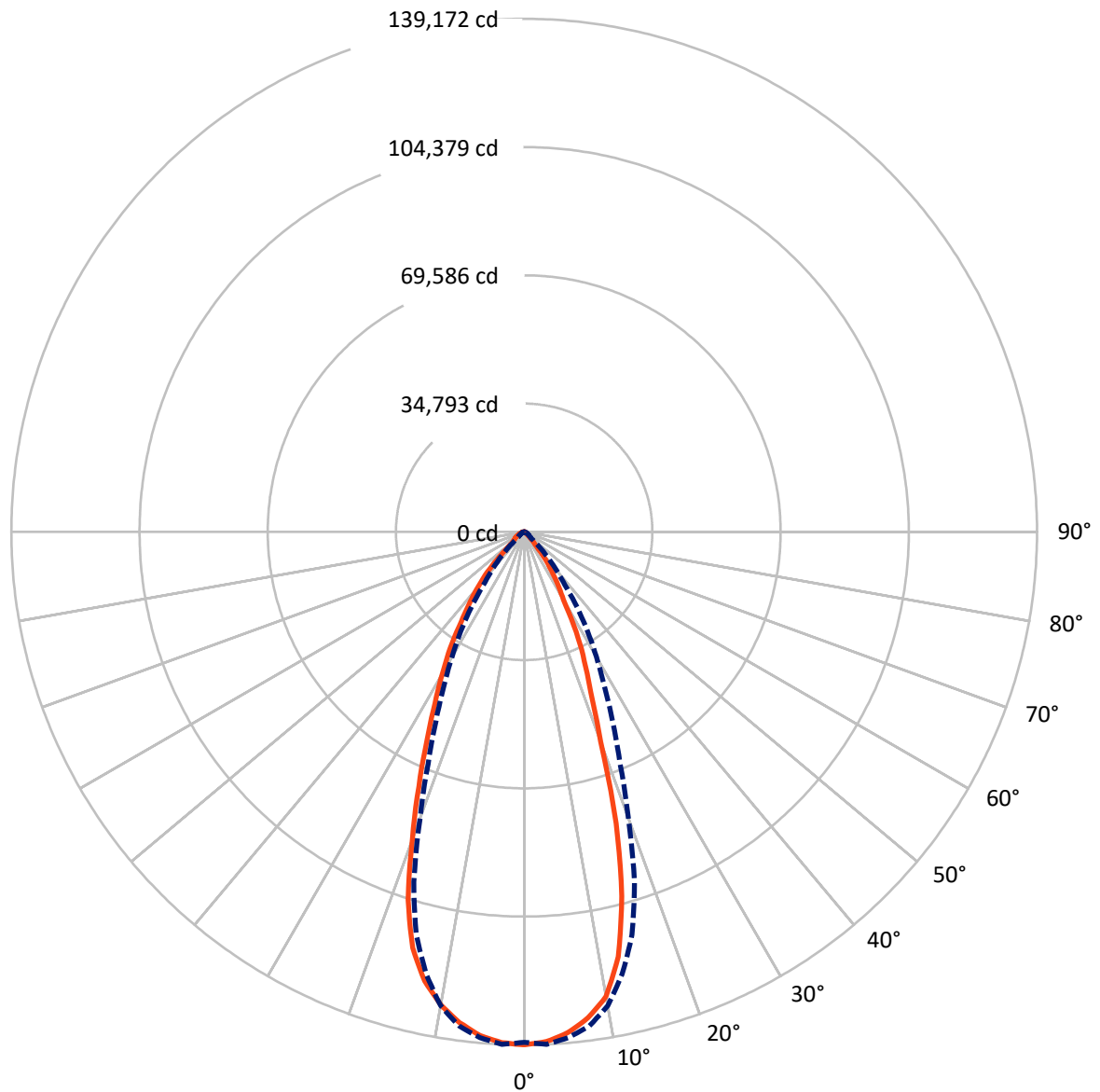
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Lumen Table

90	0.4	1.3	2.3	3.1	3.5	3.1	2.3	1.3	0.4										
80	0.4	0.2	0.3	0.5	0.7	0.7	0.8	0.9	0.9	0.8	0.7	0.7	0.5	0.3	0.2	0.4			
70																			
60	0.4	0.5	0.8	1.3	1.3	1.0	1.2	1.3	1.3	1.2	1.0	1.3	1.3	0.8	0.5	0.4			
50																			
40	1.0	1.2	2.7	5.5	9.7	19.9	44.0	59.3	59.3	44.0	19.9	9.7	5.5	2.7	1.2	1.0			
30																			
20	2.2	4.7	15.7	39.9	191.9	453.5	833.7	1144.6	1144.6	833.7	453.5	191.9	39.9	15.7	4.7	2.2			
10																			
0	3.3	8.0	24.6	136.9	589.9	1504.1	3017.5	4002.8	4002.8	3017.5	1504.1	589.9	136.9	24.6	8.0	3.3			
-10																			
-20	3.9	9.2	28.9	120.3	541.2	1318.1	2483.2	3352.9	3352.9	2483.2	1318.1	541.2	120.3	28.9	9.2	3.9			
-30																			
-40	3.9	7.8	25.3	53.8	142.8	424.6	714.4	907.6	907.6	714.4	424.6	142.8	53.8	25.3	7.8	3.9			
-50																			
-60	3.6	5.4	12.4	25.5	45.1	63.2	77.8	88.9	88.9	77.8	63.2	45.1	25.5	12.4	5.4	3.6			
-70																			
-80	2.6	15.9	35.1	55.1	67.5	55.1	35.1	15.9	2.6										
-90																			

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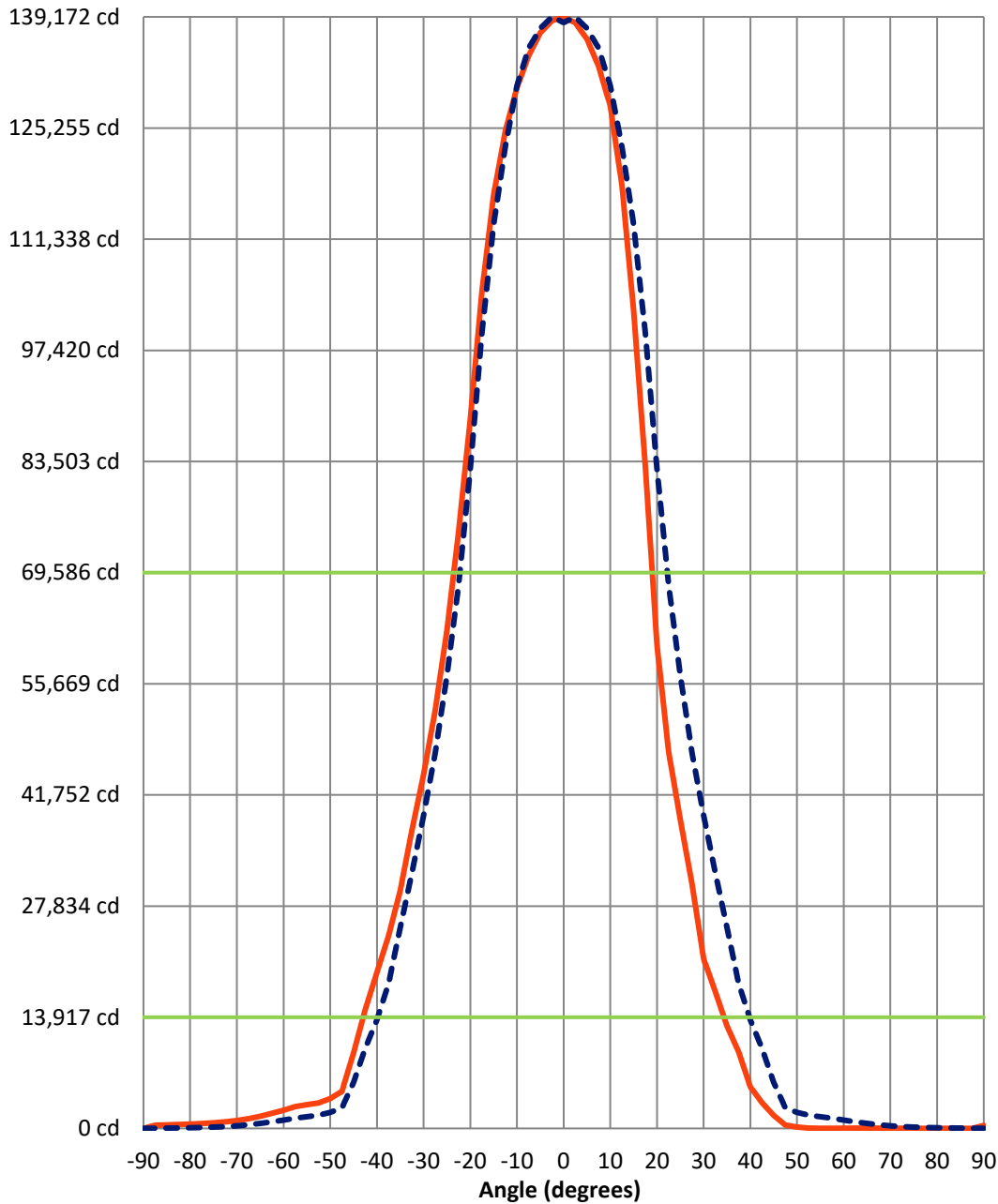
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 44.5°
 V Angle: 42.5°
 Lumens: 49758.8
 Efficiency: 54.9%

Field:
 H Angle: 79.6°
 V Angle: 77.3°
 Lumens: 83268.5
 Efficiency: 91.9%

Spill:
 Lumens: 7351.3
 Efficiency: 8.1%

— Vertical Distribution through -2.5-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°	12.0	23.5	35.0	57.9	80.9	102.2	123.6	141.1	158.6	171.2	183.7
87.5°	12.0	11.1	10.1	10.2	10.2	10.3	10.4	9.9	9.5	9.3	9.2
85°	12.0	11.4	10.4	10.5	10.6	10.8	10.9	10.6	10.2	10.0	9.6
82.5°	12.0	11.6	10.7	10.9	11.0	11.2	11.5	11.3	11.0	10.6	10.1
80°	12.0	11.9	11.0	11.2	11.3	11.7	12.1	11.9	11.8	11.3	10.7
77.5°	12.0	12.1	11.3	11.6	11.7	12.3	12.7	12.6	12.5	12.0	11.2
75°	12.0	12.4	11.7	12.0	12.2	13.0	13.3	13.3	13.3	12.6	11.8
72.5°	12.0	12.6	12.0	12.3	13.0	13.7	14.0	14.0	13.8	13.1	12.4
70°	12.0	12.9	12.4	12.8	13.8	14.5	14.7	14.8	14.4	13.7	13.4
67.5°	12.0	13.2	12.7	13.4	14.6	15.3	15.7	15.7	15.2	14.9	14.6
65°	12.0	13.4	13.1	14.1	15.3	16.2	16.6	16.6	16.7	16.2	16.2
62.5°	12.0	13.7	13.5	14.7	16.1	17.1	17.6	18.1	18.3	18.0	18.9
60°	12.0	13.9	14.0	15.3	16.9	18.1	18.7	19.8	20.0	21.7	21.9
57.5°	12.0	14.2	14.7	16.0	18.0	19.0	20.8	21.6	24.6	26.3	28.0
55°	12.0	14.5	15.4	16.6	19.2	20.0	23.2	24.0	30.5	32.6	36.0
52.5°	12.0	14.8	16.2	17.2	20.5	21.2	25.8	30.1	37.0	42.4	45.0
50°	12.0	15.0	17.1	17.9	21.9	24.2	28.6	36.8	45.0	52.9	58.2
47.5°	12.0	15.3	18.0	18.6	23.3	27.4	32.1	43.6	55.3	64.0	72.9
45°	12.0	15.6	18.9	19.8	24.9	30.8	38.1	50.6	65.7	78.2	88.5
42.5°	12.0	15.8	19.8	21.0	26.5	34.3	44.1	59.1	76.5	93.0	112.0
40°	12.0	16.1	20.9	22.9	28.8	37.9	50.6	68.7	88.4	108.3	138.2
37.5°	12.0	16.4	21.9	25.1	31.7	41.7	57.5	78.6	102.3	126.7	165.7
35°	12.0	16.6	23.0	27.3	34.6	46.8	64.6	88.5	116.6	151.6	197.6
32.5°	12.0	16.9	24.1	29.6	37.6	52.4	72.1	99.0	131.2	177.1	233.9
30°	12.0	17.2	25.2	31.9	40.6	57.9	80.9	110.1	146.1	202.9	269.6
27.5°	12.0	17.4	26.3	34.3	44.6	63.4	89.5	122.1	162.9	229.0	304.5
25°	12.0	17.7	27.5	36.7	48.6	68.7	97.9	133.7	182.2	257.1	338.7
22.5°	12.0	17.9	28.7	39.1	52.6	74.3	106.1	144.8	200.5	281.2	374.9
20°	12.0	18.2	29.8	41.4	56.5	80.2	114.0	155.4	217.7	304.1	405.1
17.5°	12.0	18.4	31.0	43.8	60.3	85.9	121.8	165.4	233.7	325.6	433.6
15°	12.0	18.6	32.2	46.2	64.0	91.4	129.4	175.1	248.5	345.6	460.7
12.5°	12.0	18.8	33.3	48.5	67.5	96.5	136.6	184.7	263.3	364.0	486.1
10°	12.0	19.0	34.4	50.8	70.9	101.5	143.3	193.7	278.1	385.7	513.0
7.5°	12.0	19.2	35.4	53.0	74.2	106.1	149.5	202.1	291.8	406.8	545.0
5°	12.0	19.4	36.4	55.1	77.3	110.4	155.2	209.8	304.2	426.3	575.2
2.5°	12.0	19.5	37.4	57.2	80.3	114.4	160.4	216.8	315.3	443.9	603.0
0°	12.0	19.7	38.3	59.1	83.1	118.1	165.1	223.1	324.8	459.3	627.8
-2.5°	12.0	20.5	39.9	61.7	87.0	123.5	172.1	232.2	335.9	472.4	640.6
-5°	12.0	21.2	41.5	64.2	90.6	128.5	178.6	240.4	345.3	482.9	650.1
-7.5°	12.0	21.9	43.0	66.5	94.1	133.2	184.5	247.7	353.0	490.9	656.2
-10°	12.0	22.6	44.4	68.7	97.3	137.4	189.6	254.1	358.9	496.3	659.2
-12.5°	12.0	23.3	45.7	70.8	100.2	141.2	194.2	259.4	362.9	499.1	663.8
-15°	12.0	23.9	46.9	72.6	102.9	144.5	197.9	263.8	365.1	499.9	666.2
-17.5°	12.0	24.5	48.0	74.4	105.4	147.3	201.0	267.5	365.6	497.8	663.4
-20°	12.0	25.1	49.0	76.0	107.5	149.6	203.8	270.6	364.3	492.7	655.2



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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°	12.0	25.6	50.0	77.4	109.3	151.4	206.6	272.8	361.0	484.5	642.0
-25°	12.0	26.1	50.8	78.6	110.8	153.5	208.6	273.9	355.9	473.3	630.6
-27.5°	12.0	26.6	51.5	79.6	112.0	155.5	209.9	274.1	348.9	465.7	622.2
-30°	12.0	27.0	52.0	80.5	113.1	157.0	210.3	273.4	345.9	459.7	609.0
-32.5°	12.0	27.4	52.5	81.2	115.0	158.0	209.9	272.7	345.6	450.5	590.9
-35°	12.0	27.7	52.9	81.7	116.6	158.5	209.9	271.7	343.7	438.1	567.6
-37.5°	12.0	28.0	53.1	82.0	117.8	159.0	209.9	270.0	340.0	422.5	546.5
-40°	12.0	28.2	53.2	82.1	118.8	160.2	209.2	267.2	334.6	413.1	526.2
-42.5°	12.0	28.4	53.2	82.3	119.6	161.0	208.0	263.3	329.3	405.3	502.4
-45°	12.0	28.6	53.1	82.8	120.3	161.4	206.2	259.5	323.4	395.3	477.4
-47.5°	12.0	28.7	52.9	83.0	120.5	161.4	203.7	256.4	316.2	383.2	463.4
-50°	12.0	28.7	52.6	83.0	120.3	161.0	202.8	252.4	307.1	372.3	446.8
-52.5°	12.0	28.7	52.1	82.9	119.8	160.2	201.7	247.6	299.3	359.4	426.8
-55°	12.0	28.7	51.5	82.5	118.8	158.8	200.0	242.2	291.6	344.5	406.8
-57.5°	12.0	28.6	50.8	81.9	117.5	156.8	197.8	239.5	282.9	332.8	384.9
-60°	12.0	28.4	50.0	81.0	115.8	154.4	195.0	235.6	274.2	321.2	364.0
-62.5°	12.0	28.2	49.3	80.0	114.2	151.6	191.4	231.0	268.5	307.9	347.4
-65°	12.0	28.0	48.5	78.7	112.2	148.3	187.2	225.6	262.1	297.5	329.6
-67.5°	12.0	27.7	47.6	77.2	109.9	144.8	182.5	219.1	255.0	287.6	315.9
-70°	12.0	27.4	46.6	75.5	107.4	140.9	177.2	212.1	246.4	277.1	303.5
-72.5°	12.0	27.0	45.4	73.8	104.5	136.5	171.0	204.5	237.2	265.2	290.4
-75°	12.0	26.6	44.2	72.0	101.4	131.7	164.2	195.5	227.3	252.8	276.5
-77.5°	12.0	26.2	42.9	70.1	98.5	126.5	156.8	185.8	215.5	239.5	262.1
-80°	12.0	25.7	41.4	68.0	95.4	121.8	148.9	175.6	203.0	224.4	245.3
-82.5°	12.0	25.2	39.9	65.7	92.1	117.3	142.8	166.0	190.0	208.8	227.4
-85°	12.0	24.6	38.3	63.3	88.5	112.5	136.7	158.0	179.7	195.4	211.0
-87.5°	12.0	24.1	36.7	60.7	84.8	107.5	130.3	149.7	169.3	183.4	197.5
-90°	12.0	10.9	9.8	9.8	9.8	9.8	9.8	9.3	8.7	8.7	8.7



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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°	191.4	199.1	206.2	213.3	222.1	230.8	240.1	249.4	259.2	269.0	278.3
87.5°	8.7	8.2	8.2	8.3	7.8	7.3	7.0	6.6	6.1	5.5	5.4
85°	9.2	8.7	8.8	8.7	8.3	8.0	7.5	7.1	6.6	6.1	6.1
82.5°	9.9	9.8	9.4	8.8	8.6	8.6	8.2	7.7	7.3	7.0	6.8
80°	10.6	10.9	10.0	9.2	9.0	8.8	8.3	7.8	7.7	7.7	7.3
77.5°	11.1	11.0	10.4	9.8	9.4	9.0	8.7	8.4	8.1	7.8	7.7
75°	11.4	11.1	10.7	10.1	9.7	9.7	9.5	9.2	9.0	9.0	9.0
72.5°	12.1	11.8	11.2	10.3	10.0	10.3	10.3	10.0	10.3	10.7	10.7
70°	13.0	12.6	11.9	11.1	10.7	11.1	11.6	12.4	13.2	13.4	14.5
67.5°	14.1	13.6	12.6	12.0	11.8	12.4	13.1	15.9	18.4	19.8	21.3
65°	15.7	14.9	13.9	13.7	13.1	15.8	18.1	20.9	26.1	28.6	28.5
62.5°	17.6	17.8	16.5	16.8	19.0	21.4	25.4	31.4	37.5	39.8	37.7
60°	22.3	21.7	21.7	23.2	25.7	28.5	34.7	42.1	49.1	52.9	47.2
57.5°	28.6	28.4	30.0	31.0	34.3	35.2	43.3	52.5	58.6	63.1	55.6
55°	37.4	37.7	40.9	41.9	44.3	44.2	51.3	59.9	66.1	68.2	60.4
52.5°	49.7	50.2	56.1	56.8	56.1	56.8	59.4	68.7	73.9	74.0	67.2
50°	63.1	70.2	73.8	76.1	71.9	74.5	72.1	82.4	90.2	89.5	92.0
47.5°	83.1	92.5	97.7	101.5	98.3	106.5	104.7	120.6	126.0	156.1	160.8
45°	106.8	121.8	128.7	137.1	146.6	156.4	181.9	181.9	253.0	281.0	354.7
42.5°	133.3	155.7	175.1	178.5	225.6	253.1	287.8	359.0	428.4	515.6	548.8
40°	168.4	193.4	232.7	277.2	329.6	389.3	453.9	540.3	631.5	676.5	682.2
37.5°	207.3	254.3	309.2	389.9	470.3	548.7	630.6	715.1	780.8	797.4	858.6
35°	249.2	318.0	420.5	513.2	606.8	715.1	787.9	865.8	905.1	974.2	1092.0
32.5°	301.8	383.4	510.9	631.4	735.4	853.3	923.0	982.6	1075.2	1194.8	1455.1
30°	356.8	457.3	586.1	725.3	853.3	952.2	1031.6	1106.4	1251.3	1540.6	2432.7
27.5°	402.6	520.7	656.2	811.3	957.4	1047.5	1137.5	1268.1	1527.2	2123.3	3815.3
25°	443.7	571.8	724.8	904.9	1047.9	1147.2	1264.3	1448.8	1855.2	3473.0	5641.3
22.5°	483.7	622.3	803.2	1003.3	1139.8	1245.2	1422.6	1755.8	2607.4	4881.7	7487.8
20°	525.1	686.8	888.3	1094.7	1227.7	1332.0	1560.8	2053.8	3797.3	6398.3	9117.1
17.5°	568.5	751.8	971.1	1159.7	1284.1	1423.0	1706.6	2298.3	4790.5	7814.7	10858.1
15°	610.9	814.1	1041.9	1215.8	1335.8	1521.2	1902.4	3019.5	5840.9	9396.2	12719.6
12.5°	651.5	870.8	1096.8	1259.8	1386.7	1612.7	2063.2	3813.9	7103.7	10864.7	14337.9
10°	689.7	921.5	1143.0	1301.3	1442.1	1710.3	2218.1	4591.7	8209.3	11819.0	15336.7
7.5°	729.1	963.8	1182.0	1341.0	1495.5	1802.4	2388.6	5195.9	9034.7	12553.0	16108.4
5°	764.6	996.3	1219.6	1385.4	1550.6	1884.1	2526.5	5657.8	9654.1	13159.6	16795.7
2.5°	795.8	1021.9	1251.5	1427.3	1604.3	1952.4	2566.2	5786.2	9945.1	13485.8	17471.8
0°	822.5	1041.2	1277.4	1464.4	1652.6	2008.0	2576.7	5763.7	10017.1	13584.7	18130.1
-2.5°	837.6	1066.1	1323.6	1517.8	1695.8	2052.8	2631.2	5772.2	10078.0	14277.1	18976.6
-5°	848.2	1084.8	1361.6	1565.1	1734.1	2084.4	2661.6	5641.1	9995.7	14641.6	19224.0
-7.5°	854.2	1096.5	1389.5	1604.5	1768.9	2107.2	2678.7	5427.6	10000.2	14658.2	18912.8
-10°	857.3	1107.7	1402.6	1626.6	1798.7	2118.2	2670.5	5061.2	9603.2	14261.4	18400.1
-12.5°	867.6	1118.0	1407.3	1642.9	1822.5	2120.8	2682.7	4702.6	8858.5	13539.1	17667.2
-15°	871.6	1120.7	1404.7	1656.5	1861.0	2146.7	2683.1	4145.5	7891.8	12622.6	16745.6
-17.5°	868.9	1115.6	1396.7	1676.0	1896.5	2148.8	2622.1	3414.9	6787.6	11318.6	15532.1
-20°	859.4	1104.1	1379.2	1685.6	1916.8	2166.6	2604.3	3296.2	5705.5	9688.4	14058.6



REPORT NUMBER: P701598 (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°	845.7	1086.2	1354.2	1664.3	1940.0	2205.5	2579.9	3138.4	4433.0	7826.1	12234.5
-25°	829.3	1066.3	1327.4	1639.8	1950.8	2230.5	2504.2	2927.7	3685.8	6232.6	9976.8
-27.5°	812.1	1038.2	1298.8	1599.2	1944.3	2218.6	2459.7	2811.0	3346.7	4462.2	7624.5
-30°	790.4	1004.4	1256.8	1546.5	1886.7	2182.0	2432.6	2659.9	3025.7	3696.1	5594.3
-32.5°	763.9	964.8	1209.9	1486.5	1799.9	2138.1	2369.8	2567.3	2846.0	3256.8	4035.6
-35°	733.9	929.8	1157.9	1410.8	1696.9	2027.9	2275.5	2484.4	2672.7	2988.9	3486.9
-37.5°	703.2	886.6	1090.9	1330.7	1603.1	1873.3	2165.5	2373.7	2563.4	2761.9	3116.6
-40°	667.5	833.0	1024.3	1246.0	1477.1	1722.2	1993.2	2254.1	2441.5	2648.3	2861.0
-42.5°	628.4	782.1	953.0	1145.3	1352.7	1573.1	1813.5	2074.8	2326.0	2523.8	2719.3
-45°	596.8	727.1	877.1	1048.3	1226.8	1423.0	1642.3	1871.1	2137.8	2393.9	2574.7
-47.5°	558.7	672.2	810.6	946.4	1107.9	1282.9	1470.2	1687.0	1910.7	2162.8	2410.1
-50°	522.1	626.3	732.7	855.2	992.2	1146.0	1313.0	1503.9	1710.7	1917.3	2141.6
-52.5°	497.2	576.8	667.5	764.1	883.9	1015.7	1163.7	1325.7	1506.9	1687.5	1882.0
-55°	469.8	538.7	603.8	685.7	779.9	894.2	1022.7	1164.3	1302.5	1467.3	1632.5
-57.5°	443.0	500.2	552.5	615.3	694.0	778.0	894.7	1012.6	1132.6	1260.2	1399.8
-60°	415.9	462.8	508.5	559.2	616.6	691.0	772.1	870.7	968.8	1070.7	1194.2
-62.5°	388.8	426.9	466.2	510.0	558.7	608.9	675.3	747.1	815.8	908.7	1007.1
-65°	367.0	393.3	425.7	464.3	503.6	549.5	595.8	640.7	701.0	771.5	842.9
-67.5°	343.6	368.3	392.1	419.2	454.7	492.6	530.8	571.1	612.0	660.4	712.5
-70°	326.5	344.0	365.2	387.5	410.9	438.3	472.3	505.8	540.2	580.6	622.1
-72.5°	310.4	326.5	342.3	357.9	378.9	401.7	424.2	446.7	475.3	509.7	542.8
-75°	293.9	308.6	323.1	337.4	353.2	370.2	387.8	408.1	430.4	454.2	477.2
-77.5°	277.0	290.1	303.3	316.4	330.8	345.9	361.3	376.8	394.3	412.9	430.7
-80°	259.0	271.1	283.0	294.7	307.7	321.1	334.9	348.7	364.2	380.2	395.0
-82.5°	239.0	249.8	260.9	271.8	283.9	295.8	308.1	320.2	333.9	347.7	360.4
-85°	220.0	228.3	238.1	247.7	258.7	269.6	280.5	291.3	303.9	316.4	327.4
-87.5°	205.7	213.8	221.7	229.5	238.9	248.3	257.7	267.1	278.0	289.0	298.6
-90°	8.2	7.7	7.7	7.7	7.2	6.6	6.6	6.6	6.1	5.5	5.0



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	287.6	293.7	299.7	304.6	309.5	316.1	322.6	331.4	340.1	348.9	357.6
87.5°	5.3	4.9	4.4	4.3	4.3	4.3	4.3	3.8	3.3	3.3	3.3
85°	6.2	6.1	6.0	5.7	5.3	5.3	5.4	5.3	5.4	4.9	4.4
82.5°	6.6	6.6	6.6	6.1	5.5	5.5	5.5	5.5	5.5	5.0	4.4
80°	7.0	6.8	6.6	6.4	6.2	5.9	5.5	5.1	4.6	4.5	4.4
77.5°	7.8	7.5	7.1	6.9	6.7	6.2	5.6	5.0	4.5	4.4	4.4
75°	8.8	8.5	8.3	7.9	7.3	7.0	6.9	6.7	6.3	6.3	6.4
72.5°	10.5	10.4	10.4	10.7	10.6	11.0	11.5	11.9	12.4	13.2	14.3
70°	15.7	16.8	17.3	17.6	17.6	17.4	17.3	17.6	18.1	18.7	19.1
67.5°	23.0	24.7	25.7	26.1	24.4	23.4	23.5	24.0	24.8	26.4	28.6
65°	30.0	29.6	28.7	28.2	28.4	28.5	28.4	28.7	30.2	32.4	35.3
62.5°	35.3	30.5	27.7	26.3	27.3	28.9	27.8	26.9	28.1	29.5	30.9
60°	40.3	31.5	25.2	23.3	23.0	23.7	21.7	20.0	20.5	21.0	21.8
57.5°	45.1	33.7	23.4	19.9	16.7	15.1	14.6	14.0	13.6	13.3	13.4
55°	49.4	36.7	23.0	20.4	18.1	17.6	16.1	15.3	14.7	14.4	14.7
52.5°	54.8	47.2	37.7	35.0	39.4	39.8	35.2	41.8	46.8	49.1	50.0
50°	89.7	80.3	96.5	95.0	113.8	127.1	122.4	137.3	159.4	173.2	179.0
47.5°	197.1	197.4	229.2	257.4	280.8	311.3	334.8	357.4	388.9	408.5	417.3
45°	373.9	405.8	439.0	487.4	533.8	590.3	658.3	711.8	926.3	1140.0	1334.3
42.5°	572.4	607.3	656.0	761.4	886.6	1176.6	1695.1	1984.5	2345.7	2738.9	2889.8
40°	737.5	788.2	921.9	1218.7	1941.5	2629.8	3385.8	4025.1	4591.0	4916.6	5188.7
37.5°	941.6	1062.6	1671.0	2511.1	3409.8	4272.5	5051.1	5726.6	6313.1	6788.7	7259.4
35°	1238.9	2042.5	2941.4	4033.7	4989.1	5788.2	6594.8	7369.0	8034.1	8744.5	9800.0
32.5°	2348.7	3399.0	4555.2	5534.3	6468.0	7476.3	8323.9	9562.6	10532.7	11827.9	13807.3
30°	3769.8	5088.0	6136.4	7115.7	8313.0	9669.7	11085.1	12979.7	14959.5	17024.8	19150.2
27.5°	5594.4	6925.8	8031.1	9337.4	10918.3	12723.8	15429.8	18100.4	20939.7	23522.3	25485.2
25°	7793.7	9203.8	11093.1	12988.4	15250.7	18336.3	21376.5	24648.6	27495.2	30029.7	32866.8
22.5°	9854.9	12166.3	14661.2	17522.6	21206.6	24686.6	28445.6	31757.0	35329.4	38941.7	41735.4
20°	11595.1	14606.2	18185.2	22310.1	26393.6	30335.7	34710.2	39988.3	45306.7	50058.1	53506.1
17.5°	13942.4	17755.9	22210.9	27113.9	31510.1	36395.4	42483.6	49341.6	56793.9	63387.7	68616.1
15°	16507.2	20960.3	25997.5	31135.0	36696.8	43242.9	51071.5	59829.8	68945.6	78191.6	86805.5
12.5°	18250.8	23468.0	28968.7	35077.3	42014.5	50791.3	60297.3	70006.4	80423.7	91927.9	101920.1
10°	19741.4	25529.4	32165.6	39271.2	47242.4	56677.2	66502.0	78295.0	91298.1	102627.0	113329.6
7.5°	21215.7	28017.0	34949.2	42347.6	51105.4	61352.8	72980.6	85663.5	98896.7	111210.4	119962.7
5°	22960.3	30016.4	36948.1	44763.3	53934.6	64593.9	76858.6	91422.7	105365.3	116684.1	124578.2
2.5°	24402.8	31215.7	38313.6	46048.6	55474.5	66603.5	79914.8	96099.9	110406.4	120989.8	128133.0
0°	25137.3	31983.8	39172.7	47033.0	56695.7	68051.5	82574.6	99577.1	113098.4	122875.4	130525.2
-2.5°	25226.9	31739.6	38796.0	46548.5	55992.4	67573.4	82462.0	99665.3	113799.0	123960.9	131508.4
-5°	24966.2	31418.0	38460.7	46218.0	55534.2	67597.3	82546.4	99088.7	112746.0	123271.7	130379.7
-7.5°	24337.4	30827.2	37883.0	45526.1	54695.8	66395.2	80337.8	95332.4	109380.1	120753.2	127310.2
-10°	23416.3	29792.9	36739.9	44056.4	52704.1	63520.8	75990.0	89717.6	103913.0	114787.2	122349.0
-12.5°	22251.2	28286.2	34927.1	41844.3	50008.7	60086.5	71201.4	82696.2	94595.8	106993.0	114869.0
-15°	20913.7	26428.3	32644.6	39598.9	47670.8	56069.4	64898.4	74263.4	85141.6	95282.2	104450.0
-17.5°	19644.7	24394.1	30194.2	36969.9	43843.4	51141.0	58707.6	66353.6	75076.8	83036.9	90157.8
-20°	18049.8	22093.8	27437.9	33458.4	39845.5	46168.5	52667.9	58862.5	65195.2	71674.4	77329.9



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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°	16169.9	20102.7	24561.4	29803.5	35935.4	41563.0	46768.5	51609.4	56685.4	61168.6	65822.9
-25°	14122.1	17903.4	22000.8	26779.5	31487.5	36589.3	40909.7	45026.6	48963.8	52484.1	56103.3
-27.5°	11607.3	15599.2	19638.2	23462.7	27347.7	31010.9	35039.1	38837.4	42121.0	45025.1	47893.6
-30°	8774.2	13011.2	16831.8	20112.7	23192.7	26247.9	29331.8	32519.1	35627.4	38272.0	40621.5
-32.5°	6473.8	10008.4	13539.9	16755.0	19450.6	21975.7	24374.0	26874.7	29048.8	31281.1	33453.8
-35°	4283.2	6781.4	9713.1	12981.6	15789.1	17913.4	20087.9	22081.6	23720.6	25451.2	27091.5
-37.5°	3604.7	4269.4	6230.7	8884.2	11484.5	13927.3	16095.9	17829.2	19337.6	20719.9	22136.6
-40°	3179.7	3559.0	4117.0	5081.0	7267.8	9416.8	11651.0	13493.3	15100.3	16425.4	17729.7
-42.5°	2900.8	3161.0	3439.0	3818.7	4193.0	5245.5	7079.4	8669.6	10176.8	11669.8	13013.6
-45°	2756.3	2902.3	3061.4	3267.8	3427.9	3713.2	4031.7	4331.0	5530.5	6826.8	7911.8
-47.5°	2583.0	2738.8	2857.6	2954.8	3032.6	3157.9	3290.4	3463.4	3741.1	4068.6	4318.5
-50°	2361.4	2550.5	2669.1	2766.6	2822.4	2870.9	2918.6	3027.1	3177.5	3356.1	3497.7
-52.5°	2074.9	2262.0	2429.9	2556.7	2618.5	2678.8	2738.7	2813.3	2898.8	3001.9	3075.9
-55°	1804.9	1961.2	2106.4	2224.7	2331.4	2428.5	2521.8	2600.8	2693.1	2791.2	2860.1
-57.5°	1548.7	1674.9	1794.0	1896.5	1988.8	2070.4	2165.9	2269.7	2387.7	2500.2	2579.3
-60°	1309.2	1409.5	1508.7	1591.9	1666.9	1733.9	1822.2	1909.2	2012.7	2104.8	2171.9
-62.5°	1095.0	1182.6	1255.9	1318.7	1375.3	1431.3	1505.6	1578.4	1663.4	1737.1	1792.8
-65°	909.8	982.9	1034.5	1081.1	1122.1	1169.8	1227.3	1285.6	1352.6	1409.8	1455.5
-67.5°	767.0	816.5	849.0	877.7	911.7	949.7	993.1	1039.7	1091.8	1135.0	1170.0
-70°	659.0	689.9	709.6	731.0	755.9	782.2	811.6	846.6	886.2	920.0	949.0
-72.5°	573.6	597.2	613.5	630.0	645.0	663.0	682.7	709.0	738.2	764.6	789.1
-75°	499.5	516.4	531.5	545.9	559.0	574.2	590.0	612.1	636.0	657.8	678.2
-77.5°	449.7	462.8	472.9	482.5	491.9	504.6	517.6	535.4	554.1	572.1	589.5
-80°	409.8	419.9	428.4	435.5	442.0	452.7	463.9	478.5	493.3	508.9	524.3
-82.5°	372.9	381.7	389.8	396.6	402.8	412.5	422.5	435.5	448.6	461.5	474.3
-85°	338.3	346.3	354.0	360.4	366.7	374.6	382.4	393.6	404.9	416.7	428.3
-87.5°	308.1	315.7	323.3	328.3	333.3	340.3	347.3	356.9	366.5	376.6	386.7
-90°	4.4	4.4	4.4	3.9	3.3	3.3	3.3	2.8	2.2	2.2	2.2



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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°	362.0	366.4	368.6	370.8	368.6	366.4	362.0	357.6	348.9	340.1	331.4
87.5°	2.7	2.2	2.2	2.2	2.2	2.2	2.7	3.3	3.3	3.3	3.8
85°	3.8	3.3	3.8	4.4	3.8	3.3	3.8	4.4	4.9	5.4	5.3
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.0	5.5	5.5
80°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.5	4.6	5.1
77.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.5	5.0
75°	6.0	5.5	5.5	5.5	5.5	5.5	6.0	6.4	6.3	6.3	6.7
72.5°	14.7	15.0	15.8	16.4	15.8	15.0	14.7	14.3	13.2	12.4	11.9
70°	19.4	19.6	19.7	19.7	19.7	19.6	19.4	19.1	18.7	18.1	17.6
67.5°	29.7	30.2	31.5	32.8	31.5	30.2	29.7	28.6	26.4	24.8	24.0
65°	37.3	38.8	39.3	39.4	39.3	38.8	37.3	35.3	32.4	30.2	28.7
62.5°	32.3	33.7	34.0	33.9	34.0	33.7	32.3	30.9	29.5	28.1	26.9
60°	22.5	23.2	23.6	24.1	23.6	23.2	22.5	21.8	21.0	20.5	20.0
57.5°	13.6	14.3	14.3	14.2	14.3	14.3	13.6	13.4	13.3	13.6	14.0
55°	14.9	15.2	14.9	14.2	14.9	15.2	14.9	14.7	14.4	14.7	15.3
52.5°	48.7	46.2	43.8	41.6	43.8	46.2	48.7	50.0	49.1	46.8	41.8
50°	177.1	174.2	169.9	165.1	169.9	174.2	177.1	179.0	173.2	159.4	137.3
47.5°	425.2	426.1	422.0	414.5	422.0	426.1	425.2	417.3	408.5	388.9	357.4
45°	1503.7	1585.5	1629.6	1660.2	1629.6	1585.5	1503.7	1334.3	1140.0	926.3	711.8
42.5°	3021.8	3136.5	3223.7	3241.7	3223.7	3136.5	3021.8	2889.8	2738.9	2345.7	1984.5
40°	5511.3	5530.5	5210.7	4728.0	5210.7	5530.5	5511.3	5188.7	4916.6	4591.0	4025.1
37.5°	7820.5	8627.4	9564.9	10043.3	9564.9	8627.4	7820.5	7259.4	6788.7	6313.1	5726.6
35°	11224.3	12438.1	12831.9	12842.1	12831.9	12438.1	11224.3	9800.0	8744.5	8034.1	7369.0
32.5°	15592.3	16579.2	17106.2	16963.1	17106.2	16579.2	15592.3	13807.3	11827.9	10532.7	9562.6
30°	20388.8	21247.4	21254.3	20967.1	21254.3	21247.4	20388.8	19150.2	17024.8	14959.5	12979.7
27.5°	27516.8	29331.3	30608.4	30952.5	30608.4	29331.3	27516.8	25485.2	23522.3	20939.7	18100.4
25°	35423.2	37417.1	38643.1	39089.5	38643.1	37417.1	35423.2	32866.8	30029.7	27495.2	24648.6
22.5°	44335.5	46274.0	47158.7	47621.4	47158.7	46274.0	44335.5	41735.4	38941.7	35329.4	31757.0
20°	56792.8	59549.1	60588.2	61032.2	60588.2	59549.1	56792.8	53506.1	50058.1	45306.7	39988.3
17.5°	74048.5	79492.2	82895.9	84643.9	82895.9	79492.2	74048.5	68616.1	63387.7	56793.9	49341.6
15°	93180.5	98706.9	102341.3	104520.6	102341.3	98706.9	93180.5	86805.5	78191.6	68945.6	59829.8
12.5°	109593.4	114520.0	118030.4	120117.2	118030.4	114520.0	109593.4	101920.1	91927.9	80423.7	70006.4
10°	120122.9	124347.8	127989.7	129768.4	127989.7	124347.8	120122.9	113329.6	102627.0	91298.1	78295.0
7.5°	126073.8	130986.4	132960.6	134177.1	132960.6	130986.4	126073.8	119962.7	111210.4	98896.7	85663.5
5°	130685.8	134568.1	136390.5	137279.8	136390.5	134568.1	130685.8	124578.2	116684.1	105365.3	91422.7
2.5°	133764.7	137135.0	138423.8	139141.3	138423.8	137135.0	133764.7	128133.0	120989.8	110406.4	96099.9
0°	135242.3	137727.2	139171.9	138467.6	139171.9	137727.2	135242.3	130525.2	122875.4	113098.4	99577.1
-2.5°	135252.6	137614.5	138688.5	138165.7	138688.5	137614.5	135252.6	131508.4	123960.9	113799.0	99665.3
-5°	134095.5	135858.2	137166.3	136747.2	137166.3	135858.2	134095.5	130379.7	123271.7	112746.0	99088.7
-7.5°	130974.9	133317.7	134275.9	134322.5	134275.9	133317.7	130974.9	127310.2	120753.2	109380.1	95332.4
-10°	126682.2	129279.6	130299.7	130403.8	130299.7	129279.6	126682.2	122349.0	114787.2	103913.0	89717.6
-12.5°	120302.0	123349.0	124817.0	125078.7	124817.0	123349.0	120302.0	114869.0	106993.0	94595.8	82696.2
-15°	110397.6	114504.5	116822.6	117636.1	116822.6	114504.5	110397.6	104450.0	95282.2	85141.6	74263.4
-17.5°	96933.0	101840.0	104730.5	105749.9	104730.5	101840.0	96933.0	90157.8	83036.9	75076.8	66353.6
-20°	82888.2	86526.0	88754.4	89672.7	88754.4	86526.0	82888.2	77329.9	71674.4	65195.2	58862.5



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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°	70113.1	73046.1	74701.8	75437.2	74701.8	73046.1	70113.1	65822.9	61168.6	56685.4	51609.4
-25°	59033.2	61503.5	62352.6	62831.3	62352.6	61503.5	59033.2	56103.3	52484.1	48963.8	45026.6
-27.5°	49980.1	51939.8	52397.1	52819.7	52397.1	51939.8	49980.1	47893.6	45025.1	42121.0	38837.4
-30°	42351.7	44057.1	44290.2	44758.1	44290.2	44057.1	42351.7	40621.5	38272.0	35627.4	32519.1
-32.5°	35217.8	36736.3	37318.0	37407.4	37318.0	36736.3	35217.8	33453.8	31281.1	29048.8	26874.7
-35°	28386.5	29387.2	29783.2	29807.4	29783.2	29387.2	28386.5	27091.5	25451.2	23720.6	22081.6
-37.5°	23015.4	23653.4	24112.0	23985.7	24112.0	23653.4	23015.4	22136.6	20719.9	19337.6	17829.2
-40°	18460.6	19102.4	19521.6	19419.5	19521.6	19102.4	18460.6	17729.7	16425.4	15100.3	13493.3
-42.5°	13754.8	14460.7	14856.9	14747.3	14856.9	14460.7	13754.8	13013.6	11669.8	10176.8	8669.6
-45°	8530.4	9152.6	9444.6	9266.8	9444.6	9152.6	8530.4	7911.8	6826.8	5530.5	4331.0
-47.5°	4450.3	4591.9	4637.2	4573.8	4637.2	4591.9	4450.3	4318.5	4068.6	3741.1	3463.4
-50°	3608.3	3697.1	3735.3	3724.0	3735.3	3697.1	3608.3	3497.7	3356.1	3177.5	3027.1
-52.5°	3134.0	3175.0	3188.5	3180.4	3188.5	3175.0	3134.0	3075.9	3001.9	2898.8	2813.3
-55°	2918.4	2959.1	2973.2	2968.3	2973.2	2959.1	2918.4	2860.1	2791.2	2693.1	2600.8
-57.5°	2645.0	2695.0	2725.9	2741.9	2725.9	2695.0	2645.0	2579.3	2500.2	2387.7	2269.7
-60°	2225.9	2266.0	2277.5	2271.6	2277.5	2266.0	2225.9	2171.9	2104.8	2012.7	1909.2
-62.5°	1836.6	1869.5	1894.1	1910.7	1894.1	1869.5	1836.6	1792.8	1737.1	1663.4	1578.4
-65°	1489.1	1512.8	1517.8	1513.7	1517.8	1512.8	1489.1	1455.5	1409.8	1352.6	1285.6
-67.5°	1194.6	1212.2	1214.6	1210.7	1214.6	1212.2	1194.6	1170.0	1135.0	1091.8	1039.7
-70°	968.5	983.4	985.4	983.2	985.4	983.4	968.5	949.0	920.0	886.2	846.6
-72.5°	803.4	814.2	822.4	829.0	822.4	814.2	803.4	789.1	764.6	738.2	709.0
-75°	688.6	696.4	698.4	698.9	698.4	696.4	688.6	678.2	657.8	636.0	612.1
-77.5°	598.7	606.5	612.0	616.8	612.0	606.5	598.7	589.5	572.1	554.1	535.4
-80°	531.2	537.2	541.7	545.8	541.7	537.2	531.2	524.3	508.9	493.3	478.5
-82.5°	480.9	487.1	490.9	494.3	490.9	487.1	480.9	474.3	461.5	448.6	435.5
-85°	433.4	438.2	441.8	445.1	441.8	438.2	433.4	428.3	416.7	404.9	393.6
-87.5°	391.3	395.8	398.1	400.3	398.1	395.8	391.3	386.7	376.6	366.5	356.9
-90°	1.7	1.1	1.1	1.1	1.1	1.1	1.7	2.2	2.2	2.2	2.8



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	322.6	316.1	309.5	304.6	299.7	293.7	287.6	278.3	269.0	259.2	249.4
87.5°	4.3	4.3	4.3	4.3	4.4	4.9	5.3	5.4	5.5	6.1	6.6
85°	5.4	5.3	5.3	5.7	6.0	6.1	6.2	6.1	6.1	6.6	7.1
82.5°	5.5	5.5	5.5	6.1	6.6	6.6	6.6	6.8	7.0	7.3	7.7
80°	5.5	5.9	6.2	6.4	6.6	6.8	7.0	7.3	7.7	7.7	7.8
77.5°	5.6	6.2	6.7	6.9	7.1	7.5	7.8	7.7	7.8	8.1	8.4
75°	6.9	7.0	7.3	7.9	8.3	8.5	8.8	9.0	9.0	9.0	9.2
72.5°	11.5	11.0	10.6	10.7	10.4	10.4	10.5	10.7	10.7	10.3	10.0
70°	17.3	17.4	17.6	17.6	17.3	16.8	15.7	14.5	13.4	13.2	12.4
67.5°	23.5	23.4	24.4	26.1	25.7	24.7	23.0	21.3	19.8	18.4	15.9
65°	28.4	28.5	28.4	28.2	28.7	29.6	30.0	28.5	28.6	26.1	20.9
62.5°	27.8	28.9	27.3	26.3	27.7	30.5	35.3	37.7	39.8	37.5	31.4
60°	21.7	23.7	23.0	23.3	25.2	31.5	40.3	47.2	52.9	49.1	42.1
57.5°	14.6	15.1	16.7	19.9	23.4	33.7	45.1	55.6	63.1	58.6	52.5
55°	16.1	17.6	18.1	20.4	23.0	36.7	49.4	60.4	68.2	66.1	59.9
52.5°	35.2	39.8	39.4	35.0	37.7	47.2	54.8	67.2	74.0	73.9	68.7
50°	122.4	127.1	113.8	95.0	96.5	80.3	89.7	92.0	89.5	90.2	82.4
47.5°	334.8	311.3	280.8	257.4	229.2	197.4	197.1	160.8	156.1	126.0	120.6
45°	658.3	590.3	533.8	487.4	439.0	405.8	373.9	354.7	281.0	253.0	181.9
42.5°	1695.1	1176.6	886.6	761.4	656.0	607.3	572.4	548.8	515.6	428.4	359.0
40°	3385.8	2629.8	1941.5	1218.7	921.9	788.2	737.5	682.2	676.5	631.5	540.3
37.5°	5051.1	4272.5	3409.8	2511.1	1671.0	1062.6	941.6	858.6	797.4	780.8	715.1
35°	6594.8	5788.2	4989.1	4033.7	2941.4	2042.5	1238.9	1092.0	974.2	905.1	865.8
32.5°	8323.9	7476.3	6468.0	5534.3	4555.2	3399.0	2348.7	1455.1	1194.8	1075.2	982.6
30°	11085.1	9669.7	8313.0	7115.7	6136.4	5088.0	3769.8	2432.7	1540.6	1251.3	1106.4
27.5°	15429.8	12723.8	10918.3	9337.4	8031.1	6925.8	5594.4	3815.3	2123.3	1527.2	1268.1
25°	21376.5	18336.3	15250.7	12988.4	11093.1	9203.8	7793.7	5641.3	3473.0	1855.2	1448.8
22.5°	28445.6	24686.6	21206.6	17522.6	14661.2	12166.3	9854.9	7487.8	4881.7	2607.4	1755.8
20°	34710.2	30335.7	26393.6	22310.1	18185.2	14606.2	11595.1	9117.1	6398.3	3797.3	2053.8
17.5°	42483.6	36395.4	31510.1	27113.9	22210.9	17755.9	13942.4	10858.1	7814.7	4790.5	2298.3
15°	51071.5	43242.9	36696.8	31135.0	25997.5	20960.3	16507.2	12719.6	9396.2	5840.9	3019.5
12.5°	60297.3	50791.3	42014.5	35077.3	28968.7	23468.0	18250.8	14337.9	10864.7	7103.7	3813.9
10°	66502.0	56677.2	47242.4	39271.2	32165.6	25529.4	19741.4	15336.7	11819.0	8209.3	4591.7
7.5°	72980.6	61352.8	51105.4	42347.6	34949.2	28017.0	21215.7	16108.4	12553.0	9034.7	5195.9
5°	76858.6	64593.9	53934.6	44763.3	36948.1	30016.4	22960.3	16795.7	13159.6	9654.1	5657.8
2.5°	79914.8	66603.5	55474.5	46048.6	38313.6	31215.7	24402.8	17471.8	13485.8	9945.1	5786.2
0°	82574.6	68051.5	56695.7	47033.0	39172.7	31983.8	25137.3	18130.1	13584.7	10017.1	5763.7
-2.5°	82462.0	67573.4	55992.4	46548.5	38796.0	31739.6	25226.9	18976.6	14277.1	10078.0	5772.2
-5°	82546.4	67597.3	55534.2	46218.0	38460.7	31418.0	24966.2	19224.0	14641.6	9995.7	5641.1
-7.5°	80337.8	66395.2	54695.8	45526.1	37883.0	30827.2	24337.4	18912.8	14658.2	10000.2	5427.6
-10°	75990.0	63520.8	52704.1	44056.4	36739.9	29792.9	23416.3	18400.1	14261.4	9603.2	5061.2
-12.5°	71201.4	60086.5	50008.7	41844.3	34927.1	28286.2	22251.2	17667.2	13539.1	8858.5	4702.6
-15°	64898.4	56069.4	47670.8	39598.9	32644.6	26428.3	20913.7	16745.6	12622.6	7891.8	4145.5
-17.5°	58707.6	51141.0	43843.4	36969.9	30194.2	24394.1	19644.7	15532.1	11318.6	6787.6	3414.9
-20°	52667.9	46168.5	39845.5	33458.4	27437.9	22093.8	18049.8	14058.6	9688.4	5705.5	3296.2



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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°	46768.5	41563.0	35935.4	29803.5	24561.4	20102.7	16169.9	12234.5	7826.1	4433.0	3138.4
-25°	40909.7	36589.3	31487.5	26779.5	22000.8	17903.4	14122.1	9976.8	6232.6	3685.8	2927.7
-27.5°	35039.1	31010.9	27347.7	23462.7	19638.2	15599.2	11607.3	7624.5	4462.2	3346.7	2811.0
-30°	29331.8	26247.9	23192.7	20112.7	16831.8	13011.2	8774.2	5594.3	3696.1	3025.7	2659.9
-32.5°	24374.0	21975.7	19450.6	16755.0	13539.9	10008.4	6473.8	4035.6	3256.8	2846.0	2567.3
-35°	20087.9	17913.4	15789.1	12981.6	9713.1	6781.4	4283.2	3486.9	2988.9	2672.7	2484.4
-37.5°	16095.9	13927.3	11484.5	8884.2	6230.7	4269.4	3604.7	3116.6	2761.9	2563.4	2373.7
-40°	11651.0	9416.8	7267.8	5081.0	4117.0	3559.0	3179.7	2861.0	2648.3	2441.5	2254.1
-42.5°	7079.4	5245.5	4193.0	3818.7	3439.0	3161.0	2900.8	2719.3	2523.8	2326.0	2074.8
-45°	4031.7	3713.2	3427.9	3267.8	3061.4	2902.3	2756.3	2574.7	2393.9	2137.8	1871.1
-47.5°	3290.4	3157.9	3032.6	2954.8	2857.6	2738.8	2583.0	2410.1	2162.8	1910.7	1687.0
-50°	2918.6	2870.9	2822.4	2766.6	2669.1	2550.5	2361.4	2141.6	1917.3	1710.7	1503.9
-52.5°	2738.7	2678.8	2618.5	2556.7	2429.9	2262.0	2074.9	1882.0	1687.5	1506.9	1325.7
-55°	2521.8	2428.5	2331.4	2224.7	2106.4	1961.2	1804.9	1632.5	1467.3	1302.5	1164.3
-57.5°	2165.9	2070.4	1988.8	1896.5	1794.0	1674.9	1548.7	1399.8	1260.2	1132.6	1012.6
-60°	1822.2	1733.9	1666.9	1591.9	1508.7	1409.5	1309.2	1194.2	1070.7	968.8	870.7
-62.5°	1505.6	1431.3	1375.3	1318.7	1255.9	1182.6	1095.0	1007.1	908.7	815.8	747.1
-65°	1227.3	1169.8	1122.1	1081.1	1034.5	982.9	909.8	842.9	771.5	701.0	640.7
-67.5°	993.1	949.7	911.7	877.7	849.0	816.5	767.0	712.5	660.4	612.0	571.1
-70°	811.6	782.2	755.9	731.0	709.6	689.9	659.0	622.1	580.6	540.2	505.8
-72.5°	682.7	663.0	645.0	630.0	613.5	597.2	573.6	542.8	509.7	475.3	446.7
-75°	590.0	574.2	559.0	545.9	531.5	516.4	499.5	477.2	454.2	430.4	408.1
-77.5°	517.6	504.6	491.9	482.5	472.9	462.8	449.7	430.7	412.9	394.3	376.8
-80°	463.9	452.7	442.0	435.5	428.4	419.9	409.8	395.0	380.2	364.2	348.7
-82.5°	422.5	412.5	402.8	396.6	389.8	381.7	372.9	360.4	347.7	333.9	320.2
-85°	382.4	374.6	366.7	360.4	354.0	346.3	338.3	327.4	316.4	303.9	291.3
-87.5°	347.3	340.3	333.3	328.3	323.3	315.7	308.1	298.6	289.0	278.0	267.1
-90°	3.3	3.3	3.3	3.9	4.4	4.4	4.4	5.0	5.5	6.1	6.6



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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°	240.1	230.8	222.1	213.3	206.2	199.1	191.4	183.7	171.2	158.6	141.1
87.5°	7.0	7.3	7.8	8.3	8.2	8.2	8.7	9.2	9.3	9.5	9.9
85°	7.5	8.0	8.3	8.7	8.8	8.7	9.2	9.6	10.0	10.2	10.6
82.5°	8.2	8.6	8.6	8.8	9.4	9.8	9.9	10.1	10.6	11.0	11.3
80°	8.3	8.8	9.0	9.2	10.0	10.9	10.6	10.7	11.3	11.8	11.9
77.5°	8.7	9.0	9.4	9.8	10.4	11.0	11.1	11.2	12.0	12.5	12.6
75°	9.5	9.7	9.7	10.1	10.7	11.1	11.4	11.8	12.6	13.3	13.3
72.5°	10.3	10.3	10.0	10.3	11.2	11.8	12.1	12.4	13.1	13.8	14.0
70°	11.6	11.1	10.7	11.1	11.9	12.6	13.0	13.4	13.7	14.4	14.8
67.5°	13.1	12.4	11.8	12.0	12.6	13.6	14.1	14.6	14.9	15.2	15.7
65°	18.1	15.8	13.1	13.7	13.9	14.9	15.7	16.2	16.2	16.7	16.6
62.5°	25.4	21.4	19.0	16.8	16.5	17.8	17.6	18.9	18.0	18.3	18.1
60°	34.7	28.5	25.7	23.2	21.7	21.7	22.3	21.9	21.7	20.0	19.8
57.5°	43.3	35.2	34.3	31.0	30.0	28.4	28.6	28.0	26.3	24.6	21.6
55°	51.3	44.2	44.3	41.9	40.9	37.7	37.4	36.0	32.6	30.5	24.0
52.5°	59.4	56.8	56.1	56.8	56.1	50.2	49.7	45.0	42.4	37.0	30.1
50°	72.1	74.5	71.9	76.1	73.8	70.2	63.1	58.2	52.9	45.0	36.8
47.5°	104.7	106.5	98.3	101.5	97.7	92.5	83.1	72.9	64.0	55.3	43.6
45°	181.9	156.4	146.6	137.1	128.7	121.8	106.8	88.5	78.2	65.7	50.6
42.5°	287.8	253.1	225.6	178.5	175.1	155.7	133.3	112.0	93.0	76.5	59.1
40°	453.9	389.3	329.6	277.2	232.7	193.4	168.4	138.2	108.3	88.4	68.7
37.5°	630.6	548.7	470.3	389.9	309.2	254.3	207.3	165.7	126.7	102.3	78.6
35°	787.9	715.1	606.8	513.2	420.5	318.0	249.2	197.6	151.6	116.6	88.5
32.5°	923.0	853.3	735.4	631.4	510.9	383.4	301.8	233.9	177.1	131.2	99.0
30°	1031.6	952.2	853.3	725.3	586.1	457.3	356.8	269.6	202.9	146.1	110.1
27.5°	1137.5	1047.5	957.4	811.3	656.2	520.7	402.6	304.5	229.0	162.9	122.1
25°	1264.3	1147.2	1047.9	904.9	724.8	571.8	443.7	338.7	257.1	182.2	133.7
22.5°	1422.6	1245.2	1139.8	1003.3	803.2	622.3	483.7	374.9	281.2	200.5	144.8
20°	1560.8	1332.0	1227.7	1094.7	888.3	686.8	525.1	405.1	304.1	217.7	155.4
17.5°	1706.6	1423.0	1284.1	1159.7	971.1	751.8	568.5	433.6	325.6	233.7	165.4
15°	1902.4	1521.2	1335.8	1215.8	1041.9	814.1	610.9	460.7	345.6	248.5	175.1
12.5°	2063.2	1612.7	1386.7	1259.8	1096.8	870.8	651.5	486.1	364.0	263.3	184.7
10°	2218.1	1710.3	1442.1	1301.3	1143.0	921.5	689.7	513.0	385.7	278.1	193.7
7.5°	2388.6	1802.4	1495.5	1341.0	1182.0	963.8	729.1	545.0	406.8	291.8	202.1
5°	2526.5	1884.1	1550.6	1385.4	1219.6	996.3	764.6	575.2	426.3	304.2	209.8
2.5°	2566.2	1952.4	1604.3	1427.3	1251.5	1021.9	795.8	603.0	443.9	315.3	216.8
0°	2576.7	2008.0	1652.6	1464.4	1277.4	1041.2	822.5	627.8	459.3	324.8	223.1
-2.5°	2631.2	2052.8	1695.8	1517.8	1323.6	1066.1	837.6	640.6	472.4	335.9	232.2
-5°	2661.6	2084.4	1734.1	1565.1	1361.6	1084.8	848.2	650.1	482.9	345.3	240.4
-7.5°	2678.7	2107.2	1768.9	1604.5	1389.5	1096.5	854.2	656.2	490.9	353.0	247.7
-10°	2670.5	2118.2	1798.7	1626.6	1402.6	1107.7	857.3	659.2	496.3	358.9	254.1
-12.5°	2682.7	2120.8	1822.5	1642.9	1407.3	1118.0	867.6	663.8	499.1	362.9	259.4
-15°	2683.1	2146.7	1861.0	1656.5	1404.7	1120.7	871.6	666.2	499.9	365.1	263.8
-17.5°	2622.1	2148.8	1896.5	1676.0	1396.7	1115.6	868.9	663.4	497.8	365.6	267.5
-20°	2604.3	2166.6	1916.8	1685.6	1379.2	1104.1	859.4	655.2	492.7	364.3	270.6



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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°	2579.9	2205.5	1940.0	1664.3	1354.2	1086.2	845.7	642.0	484.5	361.0	272.8
-25°	2504.2	2230.5	1950.8	1639.8	1327.4	1066.3	829.3	630.6	473.3	355.9	273.9
-27.5°	2459.7	2218.6	1944.3	1599.2	1298.8	1038.2	812.1	622.2	465.7	348.9	274.1
-30°	2432.6	2182.0	1886.7	1546.5	1256.8	1004.4	790.4	609.0	459.7	345.9	273.4
-32.5°	2369.8	2138.1	1799.9	1486.5	1209.9	964.8	763.9	590.9	450.5	345.6	272.7
-35°	2275.5	2027.9	1696.9	1410.8	1157.9	929.8	733.9	567.6	438.1	343.7	271.7
-37.5°	2165.5	1873.3	1603.1	1330.7	1090.9	886.6	703.2	546.5	422.5	340.0	270.0
-40°	1993.2	1722.2	1477.1	1246.0	1024.3	833.0	667.5	526.2	413.1	334.6	267.2
-42.5°	1813.5	1573.1	1352.7	1145.3	953.0	782.1	628.4	502.4	405.3	329.3	263.3
-45°	1642.3	1423.0	1226.8	1048.3	877.1	727.1	596.8	477.4	395.3	323.4	259.5
-47.5°	1470.2	1282.9	1107.9	946.4	810.6	672.2	558.7	463.4	383.2	316.2	256.4
-50°	1313.0	1146.0	992.2	855.2	732.7	626.3	522.1	446.8	372.3	307.1	252.4
-52.5°	1163.7	1015.7	883.9	764.1	667.5	576.8	497.2	426.8	359.4	299.3	247.6
-55°	1022.7	894.2	779.9	685.7	603.8	538.7	469.8	406.8	344.5	291.6	242.2
-57.5°	894.7	778.0	694.0	615.3	552.5	500.2	443.0	384.9	332.8	282.9	239.5
-60°	772.1	691.0	616.6	559.2	508.5	462.8	415.9	364.0	321.2	274.2	235.6
-62.5°	675.3	608.9	558.7	510.0	466.2	426.9	388.8	347.4	307.9	268.5	231.0
-65°	595.8	549.5	503.6	464.3	425.7	393.3	367.0	329.6	297.5	262.1	225.6
-67.5°	530.8	492.6	454.7	419.2	392.1	368.3	343.6	315.9	287.6	255.0	219.1
-70°	472.3	438.3	410.9	387.5	365.2	344.0	326.5	303.5	277.1	246.4	212.1
-72.5°	424.2	401.7	378.9	357.9	342.3	326.5	310.4	290.4	265.2	237.2	204.5
-75°	387.8	370.2	353.2	337.4	323.1	308.6	293.9	276.5	252.8	227.3	195.5
-77.5°	361.3	345.9	330.8	316.4	303.3	290.1	277.0	262.1	239.5	215.5	185.8
-80°	334.9	321.1	307.7	294.7	283.0	271.1	259.0	245.3	224.4	203.0	175.6
-82.5°	308.1	295.8	283.9	271.8	260.9	249.8	239.0	227.4	208.8	190.0	166.0
-85°	280.5	269.6	258.7	247.7	238.1	228.3	220.0	211.0	195.4	179.7	158.0
-87.5°	257.7	248.3	238.9	229.5	221.7	213.8	205.7	197.5	183.4	169.3	149.7
-90°	6.6	6.6	7.2	7.7	7.7	7.7	8.2	8.7	8.7	8.7	9.3



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	123.6	102.2	80.9	57.9	35.0	23.5	12.0
87.5°	10.4	10.3	10.2	10.2	10.1	11.1	12.0
85°	10.9	10.8	10.6	10.5	10.4	11.4	12.0
82.5°	11.5	11.2	11.0	10.9	10.7	11.6	12.0
80°	12.1	11.7	11.3	11.2	11.0	11.9	12.0
77.5°	12.7	12.3	11.7	11.6	11.3	12.1	12.0
75°	13.3	13.0	12.2	12.0	11.7	12.4	12.0
72.5°	14.0	13.7	13.0	12.3	12.0	12.6	12.0
70°	14.7	14.5	13.8	12.8	12.4	12.9	12.0
67.5°	15.7	15.3	14.6	13.4	12.7	13.2	12.0
65°	16.6	16.2	15.3	14.1	13.1	13.4	12.0
62.5°	17.6	17.1	16.1	14.7	13.5	13.7	12.0
60°	18.7	18.1	16.9	15.3	14.0	13.9	12.0
57.5°	20.8	19.0	18.0	16.0	14.7	14.2	12.0
55°	23.2	20.0	19.2	16.6	15.4	14.5	12.0
52.5°	25.8	21.2	20.5	17.2	16.2	14.8	12.0
50°	28.6	24.2	21.9	17.9	17.1	15.0	12.0
47.5°	32.1	27.4	23.3	18.6	18.0	15.3	12.0
45°	38.1	30.8	24.9	19.8	18.9	15.6	12.0
42.5°	44.1	34.3	26.5	21.0	19.8	15.8	12.0
40°	50.6	37.9	28.8	22.9	20.9	16.1	12.0
37.5°	57.5	41.7	31.7	25.1	21.9	16.4	12.0
35°	64.6	46.8	34.6	27.3	23.0	16.6	12.0
32.5°	72.1	52.4	37.6	29.6	24.1	16.9	12.0
30°	80.9	57.9	40.6	31.9	25.2	17.2	12.0
27.5°	89.5	63.4	44.6	34.3	26.3	17.4	12.0
25°	97.9	68.7	48.6	36.7	27.5	17.7	12.0
22.5°	106.1	74.3	52.6	39.1	28.7	17.9	12.0
20°	114.0	80.2	56.5	41.4	29.8	18.2	12.0
17.5°	121.8	85.9	60.3	43.8	31.0	18.4	12.0
15°	129.4	91.4	64.0	46.2	32.2	18.6	12.0
12.5°	136.6	96.5	67.5	48.5	33.3	18.8	12.0
10°	143.3	101.5	70.9	50.8	34.4	19.0	12.0
7.5°	149.5	106.1	74.2	53.0	35.4	19.2	12.0
5°	155.2	110.4	77.3	55.1	36.4	19.4	12.0
2.5°	160.4	114.4	80.3	57.2	37.4	19.5	12.0
0°	165.1	118.1	83.1	59.1	38.3	19.7	12.0
-2.5°	172.1	123.5	87.0	61.7	39.9	20.5	12.0
-5°	178.6	128.5	90.6	64.2	41.5	21.2	12.0
-7.5°	184.5	133.2	94.1	66.5	43.0	21.9	12.0
-10°	189.6	137.4	97.3	68.7	44.4	22.6	12.0
-12.5°	194.2	141.2	100.2	70.8	45.7	23.3	12.0
-15°	197.9	144.5	102.9	72.6	46.9	23.9	12.0
-17.5°	201.0	147.3	105.4	74.4	48.0	24.5	12.0
-20°	203.8	149.6	107.5	76.0	49.0	25.1	12.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	206.6	151.4	109.3	77.4	50.0	25.6	12.0
-25°	208.6	153.5	110.8	78.6	50.8	26.1	12.0
-27.5°	209.9	155.5	112.0	79.6	51.5	26.6	12.0
-30°	210.3	157.0	113.1	80.5	52.0	27.0	12.0
-32.5°	209.9	158.0	115.0	81.2	52.5	27.4	12.0
-35°	209.9	158.5	116.6	81.7	52.9	27.7	12.0
-37.5°	209.9	159.0	117.8	82.0	53.1	28.0	12.0
-40°	209.2	160.2	118.8	82.1	53.2	28.2	12.0
-42.5°	208.0	161.0	119.6	82.3	53.2	28.4	12.0
-45°	206.2	161.4	120.3	82.8	53.1	28.6	12.0
-47.5°	203.7	161.4	120.5	83.0	52.9	28.7	12.0
-50°	202.8	161.0	120.3	83.0	52.6	28.7	12.0
-52.5°	201.7	160.2	119.8	82.9	52.1	28.7	12.0
-55°	200.0	158.8	118.8	82.5	51.5	28.7	12.0
-57.5°	197.8	156.8	117.5	81.9	50.8	28.6	12.0
-60°	195.0	154.4	115.8	81.0	50.0	28.4	12.0
-62.5°	191.4	151.6	114.2	80.0	49.3	28.2	12.0
-65°	187.2	148.3	112.2	78.7	48.5	28.0	12.0
-67.5°	182.5	144.8	109.9	77.2	47.6	27.7	12.0
-70°	177.2	140.9	107.4	75.5	46.6	27.4	12.0
-72.5°	171.0	136.5	104.5	73.8	45.4	27.0	12.0
-75°	164.2	131.7	101.4	72.0	44.2	26.6	12.0
-77.5°	156.8	126.5	98.5	70.1	42.9	26.2	12.0
-80°	148.9	121.8	95.4	68.0	41.4	25.7	12.0
-82.5°	142.8	117.3	92.1	65.7	39.9	25.2	12.0
-85°	136.7	112.5	88.5	63.3	38.3	24.6	12.0
-87.5°	130.3	107.5	84.8	60.7	36.7	24.1	12.0
-90°	9.8	9.8	9.8	9.8	9.8	10.9	12.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

