

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P623843

Luminaire Tested: **IFLD-S-SA2D-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623843
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

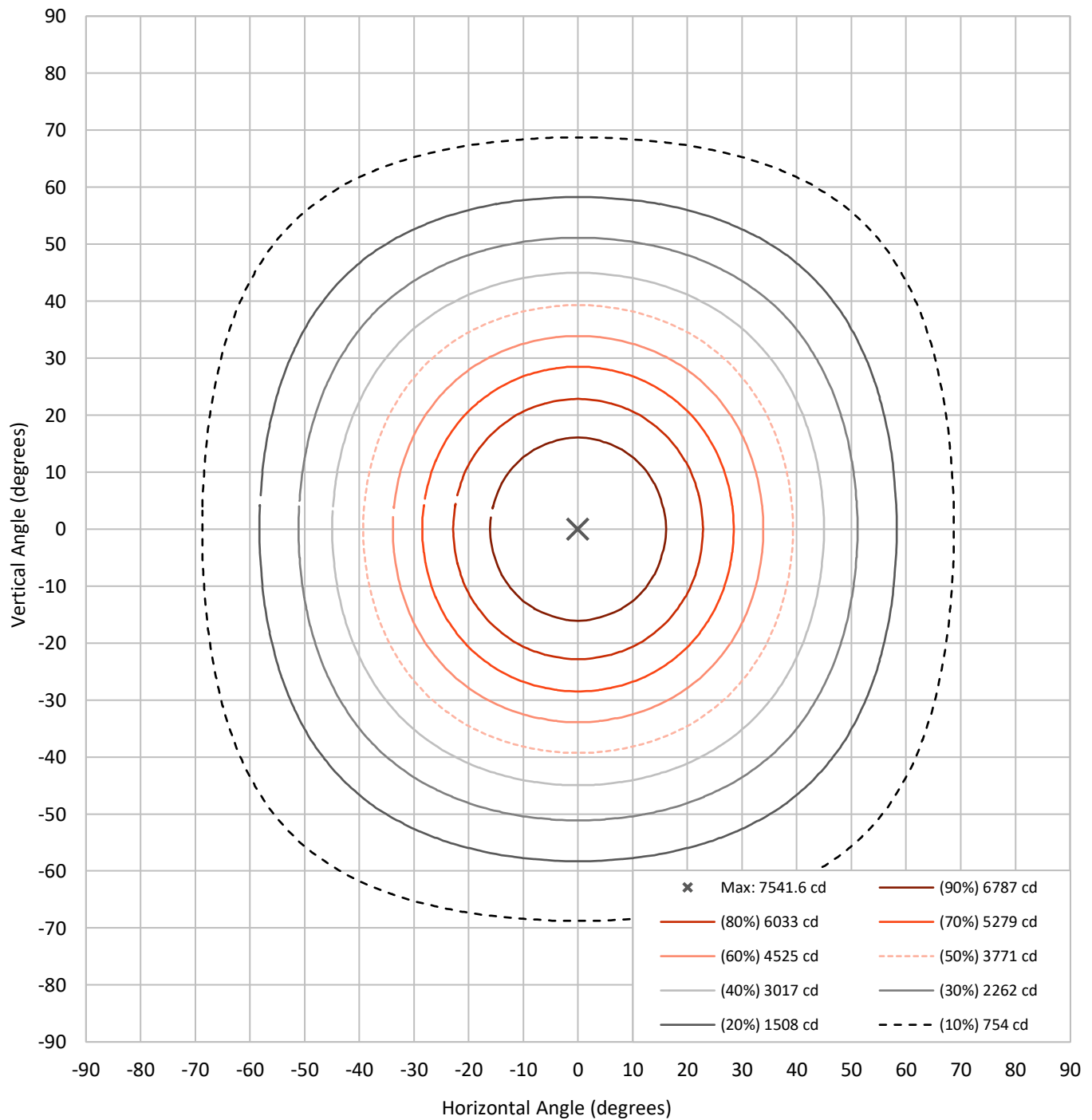
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	13578.8 lumens	Max Intensity:	7541.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	109.6 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	5875.4 lumens	Field Lumens:	9620.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	123.9		
Input Voltage (V):	120		
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		



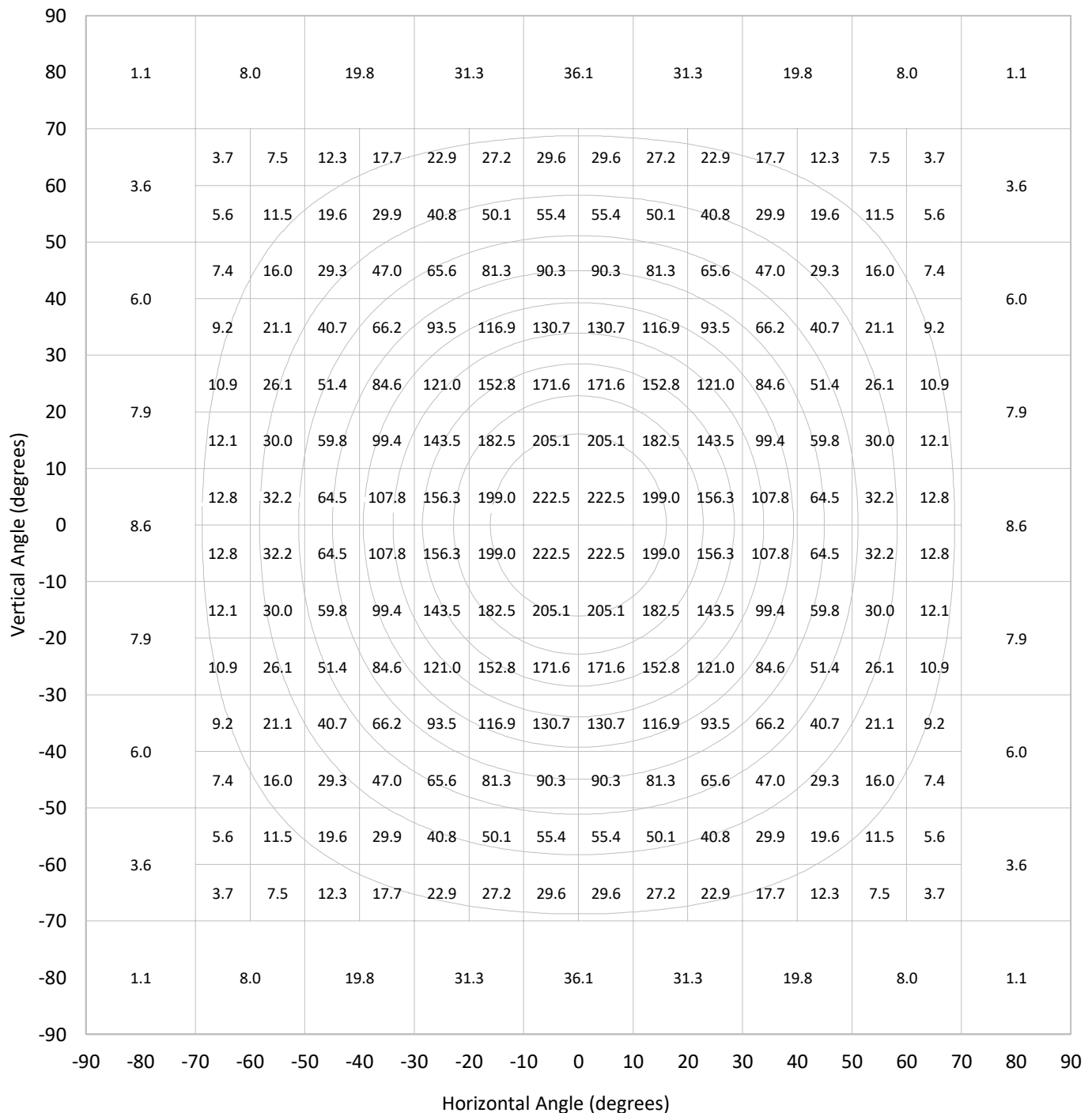
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Iso-Candela Plot



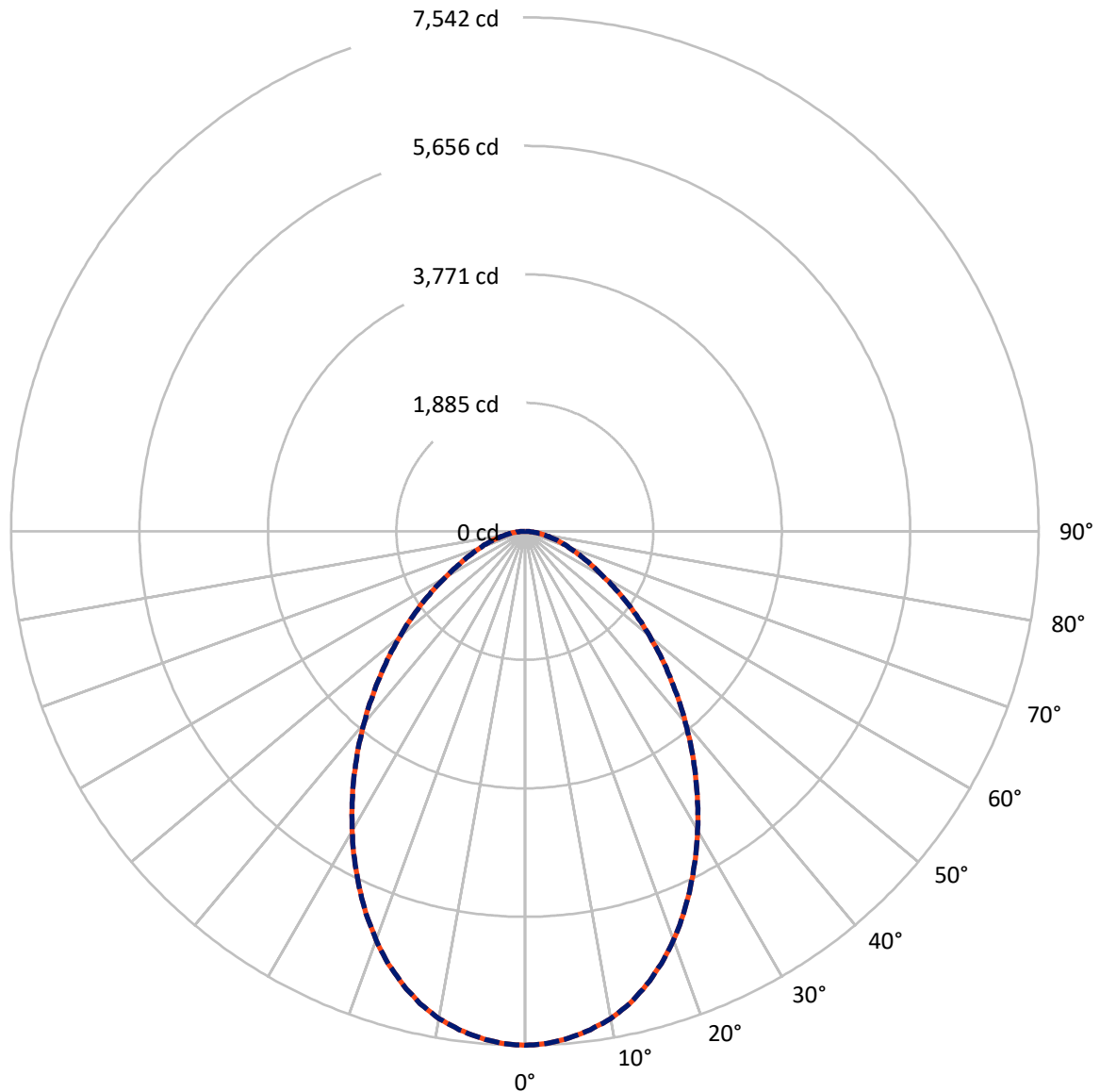
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Lumen Table



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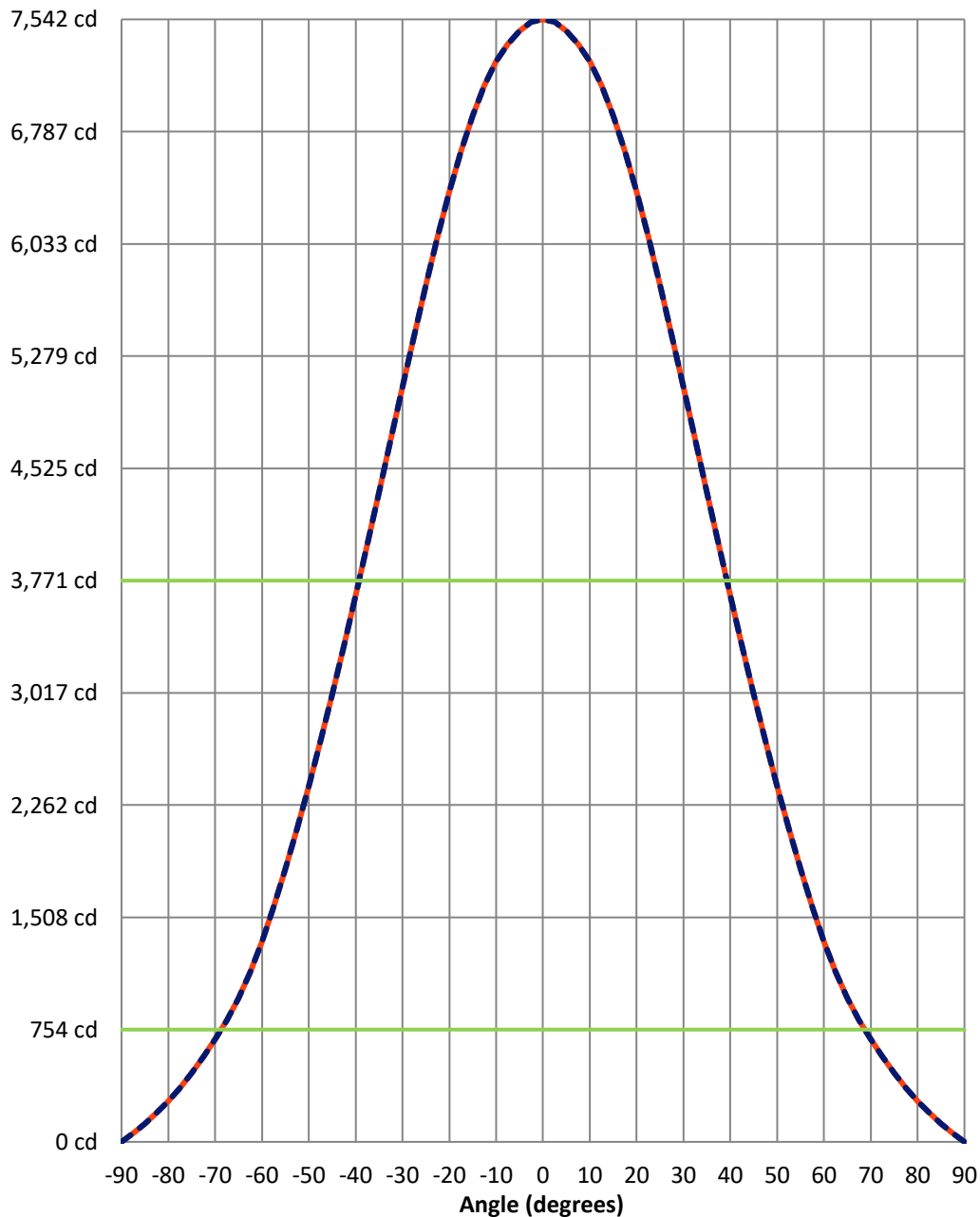
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 5875.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 9620.8
Efficiency: 70.9%

Spill:

Lumens: 3958
Efficiency: 29.1%

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

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FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	58.0	58.0	58.0	58.0	58.0	58.0	58.0	55.2	55.2	53.8	52.4
85°	121.8	121.8	121.8	121.8	121.8	118.9	117.5	116.1	114.7	111.8	110.4
82.5°	195.4	195.4	195.4	195.4	192.5	189.7	188.3	185.5	182.6	178.4	174.1
80°	273.2	273.2	273.2	273.2	269.0	266.2	261.9	259.1	254.8	249.2	243.5
77.5°	362.4	362.4	362.4	358.2	355.3	351.1	346.9	341.2	335.5	328.5	320.0
75°	462.9	462.9	462.9	457.3	453.0	448.8	441.7	434.6	426.1	416.2	404.9
72.5°	572.0	572.0	572.0	564.9	560.6	553.6	545.1	535.1	525.2	512.5	498.3
70°	689.5	689.5	689.5	681.0	673.9	666.8	655.5	644.2	630.0	615.8	598.9
67.5°	816.9	816.9	816.9	807.0	798.5	788.6	775.8	761.7	744.7	724.9	705.0
65°	965.5	965.5	959.9	951.4	941.5	927.3	911.7	891.9	870.7	845.2	818.3
62.5°	1141.1	1141.1	1132.6	1122.7	1109.9	1091.5	1070.3	1044.8	1015.1	982.5	950.0
60°	1344.9	1344.9	1335.0	1322.3	1303.9	1281.2	1252.9	1220.4	1183.6	1142.5	1102.9
57.5°	1580.0	1580.0	1567.2	1550.2	1527.6	1499.3	1463.9	1422.8	1376.1	1325.1	1275.6
55°	1834.8	1834.8	1819.2	1799.4	1772.5	1738.5	1696.0	1647.9	1591.3	1533.2	1469.5
52.5°	2105.2	2105.2	2086.8	2064.1	2033.0	1993.4	1945.2	1888.6	1823.5	1755.5	1680.5
50°	2389.8	2389.8	2368.5	2343.0	2307.6	2260.9	2205.7	2140.6	2068.4	1989.1	1902.7
47.5°	2694.1	2694.1	2670.1	2640.3	2597.9	2544.1	2478.9	2403.9	2321.8	2232.6	2134.9
45°	3007.0	3007.0	2980.1	2946.1	2899.4	2838.5	2766.3	2694.1	2589.4	2486.0	2372.8
42.5°	3332.6	3332.6	3301.5	3263.3	3209.5	3142.9	3060.8	2967.4	2864.0	2747.9	2624.8
40°	3671.0	3671.0	3635.6	3591.7	3532.3	3455.8	3363.8	3259.0	3142.9	3014.1	2878.2
37.5°	4016.4	4016.4	3976.8	3928.7	3862.1	3777.2	3673.8	3557.7	3427.5	3284.5	3134.4
35°	4364.7	4364.7	4320.8	4268.4	4194.8	4101.4	3989.5	3860.7	3716.3	3560.6	3392.1
32.5°	4720.1	4720.1	4671.9	4612.5	4528.9	4425.6	4302.4	4162.3	4016.4	3835.2	3651.2
30°	5071.2	5071.2	5018.8	4953.6	4864.5	4751.2	4616.7	4462.4	4291.1	4105.6	3907.4
27.5°	5416.6	5402.4	5358.5	5289.2	5191.5	5071.2	4925.3	4758.3	4572.8	4369.0	4156.6
25°	5756.4	5740.8	5692.7	5616.2	5511.4	5379.8	5222.6	5044.3	4844.6	4629.4	4397.3
22.5°	6082.0	6065.0	6014.0	5931.9	5820.1	5677.1	5508.6	5317.5	5105.1	4874.4	4629.4
20°	6383.5	6365.1	6312.8	6226.4	6110.3	5958.8	5780.4	5575.2	5348.6	5105.1	4844.6
17.5°	6655.4	6637.0	6581.7	6492.6	6383.5	6215.1	6031.0	5814.4	5575.2	5317.5	5044.3
15°	6894.6	6874.8	6818.2	6729.0	6604.4	6445.8	6251.9	6031.0	5780.4	5508.6	5222.6
12.5°	7098.5	7078.7	7020.6	6931.4	6802.6	6644.0	6445.8	6215.1	5958.8	5677.1	5379.8
10°	7259.9	7240.1	7184.8	7099.9	6966.8	6802.6	6604.4	6383.5	6110.3	5820.1	5511.4
7.5°	7376.0	7357.6	7306.6	7221.7	7099.9	6931.4	6729.0	6492.6	6226.4	5931.9	5616.2
5°	7463.7	7442.5	7391.5	7306.6	7184.8	7020.6	6818.2	6581.7	6312.8	6014.0	5692.7
2.5°	7524.6	7499.1	7442.5	7357.6	7240.1	7078.7	6874.8	6637.0	6365.1	6065.0	5740.8
0°	7541.6	7524.6	7463.7	7376.0	7259.9	7098.5	6894.6	6655.4	6383.5	6082.0	5756.4

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	51.0	51.0	49.6	48.1	46.7	43.9	42.5	41.1	39.6	36.8	35.4
85°	107.6	104.8	101.9	99.1	94.9	92.0	87.8	84.9	80.7	76.4	72.2
82.5°	169.9	165.6	160.0	155.7	150.1	143.0	137.3	130.2	123.2	117.5	110.4
80°	237.8	230.8	223.7	216.6	208.1	199.6	191.1	182.6	172.7	162.8	152.9
77.5°	311.5	301.6	291.6	280.3	270.4	259.1	247.8	236.4	223.7	210.9	198.2
75°	393.6	380.8	366.7	352.5	339.8	324.2	308.6	293.1	276.1	260.5	243.5
72.5°	482.8	467.2	450.2	433.2	414.8	395.0	375.2	353.9	334.1	314.3	293.1
70°	579.0	560.6	539.4	518.2	495.5	471.4	447.4	421.9	396.4	370.9	345.4
67.5°	682.4	659.7	634.2	608.8	580.5	552.1	523.8	494.1	462.9	431.8	402.1
65°	792.8	764.5	734.8	702.2	669.6	637.1	603.1	567.7	532.3	495.5	462.9
62.5°	916.0	880.6	842.4	802.7	765.9	726.3	689.5	645.6	603.1	562.0	521.0
60°	1059.0	1012.2	965.5	916.0	869.3	818.3	773.0	724.9	676.7	630.0	581.9
57.5°	1218.9	1159.5	1102.9	1043.4	981.1	924.5	866.4	808.4	754.6	699.4	647.0
55°	1400.2	1328.0	1257.2	1183.6	1111.4	1040.6	966.9	901.8	835.3	773.0	712.1
52.5°	1598.4	1516.2	1428.5	1344.9	1252.9	1165.1	1083.0	1000.9	923.1	848.0	778.7
50°	1810.7	1714.5	1613.9	1512.0	1407.2	1303.9	1204.8	1108.5	1017.9	930.1	848.0
47.5°	2031.6	1922.6	1807.9	1691.8	1580.0	1454.0	1335.0	1226.0	1117.0	1017.9	923.1
45°	2258.1	2134.9	2008.9	1877.3	1745.6	1609.7	1478.0	1344.9	1226.0	1108.5	1000.9
42.5°	2491.7	2352.9	2212.8	2067.0	1921.1	1772.5	1623.8	1478.0	1335.0	1204.8	1083.0
40°	2732.4	2579.5	2419.5	2260.9	2105.2	1935.3	1772.5	1609.7	1454.0	1303.9	1165.1
37.5°	2973.0	2806.0	2633.3	2454.9	2276.5	2105.2	1921.1	1745.6	1580.0	1407.2	1252.9
35°	3215.1	3031.1	2844.2	2650.3	2454.9	2260.9	2067.0	1877.3	1691.8	1512.0	1344.9
32.5°	3458.6	3257.6	3050.9	2844.2	2633.3	2419.5	2212.8	2008.9	1807.9	1613.9	1428.5
30°	3697.9	3479.9	3257.6	3031.1	2806.0	2579.5	2352.9	2134.9	1922.6	1714.5	1516.2
27.5°	3931.5	3697.9	3458.6	3215.1	2973.0	2732.4	2491.7	2258.1	2031.6	1810.7	1598.4
25°	4156.6	3907.4	3651.2	3392.1	3134.4	2878.2	2624.8	2372.8	2134.9	1902.7	1680.5
22.5°	4369.0	4105.6	3835.2	3560.6	3284.5	3014.1	2747.9	2486.0	2232.6	1989.1	1755.5
20°	4572.8	4291.1	4016.4	3716.3	3427.5	3142.9	2864.0	2589.4	2321.8	2068.4	1823.5
17.5°	4758.3	4462.4	4162.3	3860.7	3557.7	3259.0	2967.4	2694.1	2403.9	2140.6	1888.6
15°	4925.3	4616.7	4302.4	3989.5	3673.8	3363.8	3060.8	2766.3	2478.9	2205.7	1945.2
12.5°	5071.2	4751.2	4425.6	4101.4	3777.2	3455.8	3142.9	2838.5	2544.1	2260.9	1993.4
10°	5191.5	4864.5	4528.9	4194.8	3862.1	3532.3	3209.5	2899.4	2597.9	2307.6	2033.0
7.5°	5289.2	4953.6	4612.5	4268.4	3928.7	3591.7	3263.3	2946.1	2640.3	2343.0	2064.1
5°	5358.5	5018.8	4671.9	4320.8	3976.8	3635.6	3301.5	2980.1	2670.1	2368.5	2086.8
2.5°	5402.4	5071.2	4720.1	4364.7	4016.4	3671.0	3332.6	3007.0	2694.1	2389.8	2105.2
0°	5416.6	5071.2	4720.1	4364.7	4016.4	3671.0	3332.6	3007.0	2694.1	2389.8	2105.2

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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.0	31.1	28.3	26.9	24.1	22.7	19.8	17.0	15.6	12.7	9.9
85°	68.0	62.3	58.0	53.8	49.6	43.9	39.6	35.4	29.7	25.5	19.8
82.5°	103.3	96.3	89.2	82.1	75.0	68.0	59.5	52.4	45.3	38.2	29.7
80°	143.0	131.7	121.8	111.8	101.9	92.0	80.7	70.8	59.5	49.6	39.6
77.5°	184.0	171.3	157.1	143.0	128.8	116.1	101.9	89.2	76.4	62.3	49.6
75°	227.9	210.9	195.4	177.0	160.0	141.6	124.6	107.6	92.0	76.4	59.5
72.5°	273.2	252.0	230.8	210.9	189.7	168.5	148.7	127.4	107.6	89.2	70.8
70°	320.0	294.5	269.0	244.9	220.9	195.4	172.7	148.7	124.6	101.9	80.7
67.5°	369.5	339.8	310.0	278.9	252.0	223.7	195.4	168.5	141.6	116.1	92.0
65°	423.3	387.9	351.1	318.5	283.1	252.0	220.9	189.7	160.0	128.8	101.9
62.5°	478.5	437.5	396.4	355.3	318.5	278.9	244.9	210.9	177.0	143.0	111.8
60°	535.1	488.4	441.7	396.4	351.1	310.0	269.0	230.8	195.4	157.1	121.8
57.5°	593.2	540.8	488.4	437.5	387.9	339.8	294.5	252.0	210.9	171.3	131.7
55°	652.7	593.2	535.1	478.5	423.3	369.5	320.0	273.2	227.9	184.0	143.0
52.5°	712.1	647.0	581.9	521.0	462.9	402.1	345.4	293.1	243.5	198.2	152.9
50°	773.0	699.4	630.0	562.0	495.5	431.8	370.9	314.3	260.5	210.9	162.8
47.5°	835.3	754.6	676.7	603.1	532.3	462.9	396.4	334.1	276.1	223.7	172.7
45°	901.8	808.4	724.9	645.6	567.7	494.1	421.9	353.9	293.1	236.4	182.6
42.5°	966.9	866.4	773.0	689.5	603.1	523.8	447.4	375.2	308.6	247.8	191.1
40°	1040.6	924.5	818.3	726.3	637.1	552.1	471.4	395.0	324.2	259.1	199.6
37.5°	1111.4	981.1	869.3	765.9	669.6	580.5	495.5	414.8	339.8	270.4	208.1
35°	1183.6	1043.4	916.0	802.7	702.2	608.8	518.2	433.2	352.5	280.3	216.6
32.5°	1257.2	1102.9	965.5	842.4	734.8	634.2	539.4	450.2	366.7	291.6	223.7
30°	1328.0	1159.5	1012.2	880.6	764.5	659.7	560.6	467.2	380.8	301.6	230.8
27.5°	1400.2	1218.9	1059.0	916.0	792.8	682.4	579.0	482.8	393.6	311.5	237.8
25°	1469.5	1275.6	1102.9	950.0	818.3	705.0	598.9	498.3	404.9	320.0	243.5
22.5°	1533.2	1325.1	1142.5	982.5	845.2	724.9	615.8	512.5	416.2	328.5	249.2
20°	1591.3	1376.1	1183.6	1015.1	870.7	744.7	630.0	525.2	426.1	335.5	254.8
17.5°	1647.9	1422.8	1220.4	1044.8	891.9	761.7	644.2	535.1	434.6	341.2	259.1
15°	1696.0	1463.9	1252.9	1070.3	911.7	775.8	655.5	545.1	441.7	346.9	261.9
12.5°	1738.5	1499.3	1281.2	1091.5	927.3	788.6	666.8	553.6	448.8	351.1	266.2
10°	1772.5	1527.6	1303.9	1109.9	941.5	798.5	673.9	560.6	453.0	355.3	269.0
7.5°	1799.4	1550.2	1322.3	1122.7	951.4	807.0	681.0	564.9	457.3	358.2	273.2
5°	1819.2	1567.2	1335.0	1132.6	959.9	816.9	689.5	572.0	462.9	362.4	273.2
2.5°	1834.8	1580.0	1344.9	1141.1	965.5	816.9	689.5	572.0	462.9	362.4	273.2
0°	1834.8	1580.0	1344.9	1141.1	965.5	816.9	689.5	572.0	462.9	362.4	273.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.1	5.7	2.8	0.0
85°	15.6	9.9	5.7	0.0
82.5°	22.7	15.6	7.1	0.0
80°	29.7	19.8	9.9	0.0
77.5°	38.2	25.5	12.7	0.0
75°	45.3	29.7	15.6	0.0
72.5°	52.4	35.4	17.0	0.0
70°	59.5	39.6	19.8	0.0
67.5°	68.0	43.9	22.7	0.0
65°	75.0	49.6	24.1	0.0
62.5°	82.1	53.8	26.9	0.0
60°	89.2	58.0	28.3	0.0
57.5°	96.3	62.3	31.1	0.0
55°	103.3	68.0	34.0	0.0
52.5°	110.4	72.2	35.4	0.0
50°	117.5	76.4	36.8	0.0
47.5°	123.2	80.7	39.6	0.0
45°	130.2	84.9	41.1	0.0
42.5°	137.3	87.8	42.5	0.0
40°	143.0	92.0	43.9	0.0
37.5°	150.1	94.9	46.7	0.0
35°	155.7	99.1	48.1	0.0
32.5°	160.0	101.9	49.6	0.0
30°	165.6	104.8	51.0	0.0
27.5°	169.9	107.6	51.0	0.0
25°	174.1	110.4	52.4	0.0
22.5°	178.4	111.8	53.8	0.0
20°	182.6	114.7	55.2	0.0
17.5°	185.5	116.1	55.2	0.0
15°	188.3	117.5	58.0	0.0
12.5°	189.7	118.9	58.0	0.0
10°	192.5	121.8	58.0	0.0
7.5°	195.4	121.8	58.0	0.0
5°	195.4	121.8	58.0	0.0
2.5°	195.4	121.8	58.0	0.0
0°	195.4	121.8	58.0	0.0

(END OF REPORT)