

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: P624502

Luminaire Tested: **IFLD-S-SA3C-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624502
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

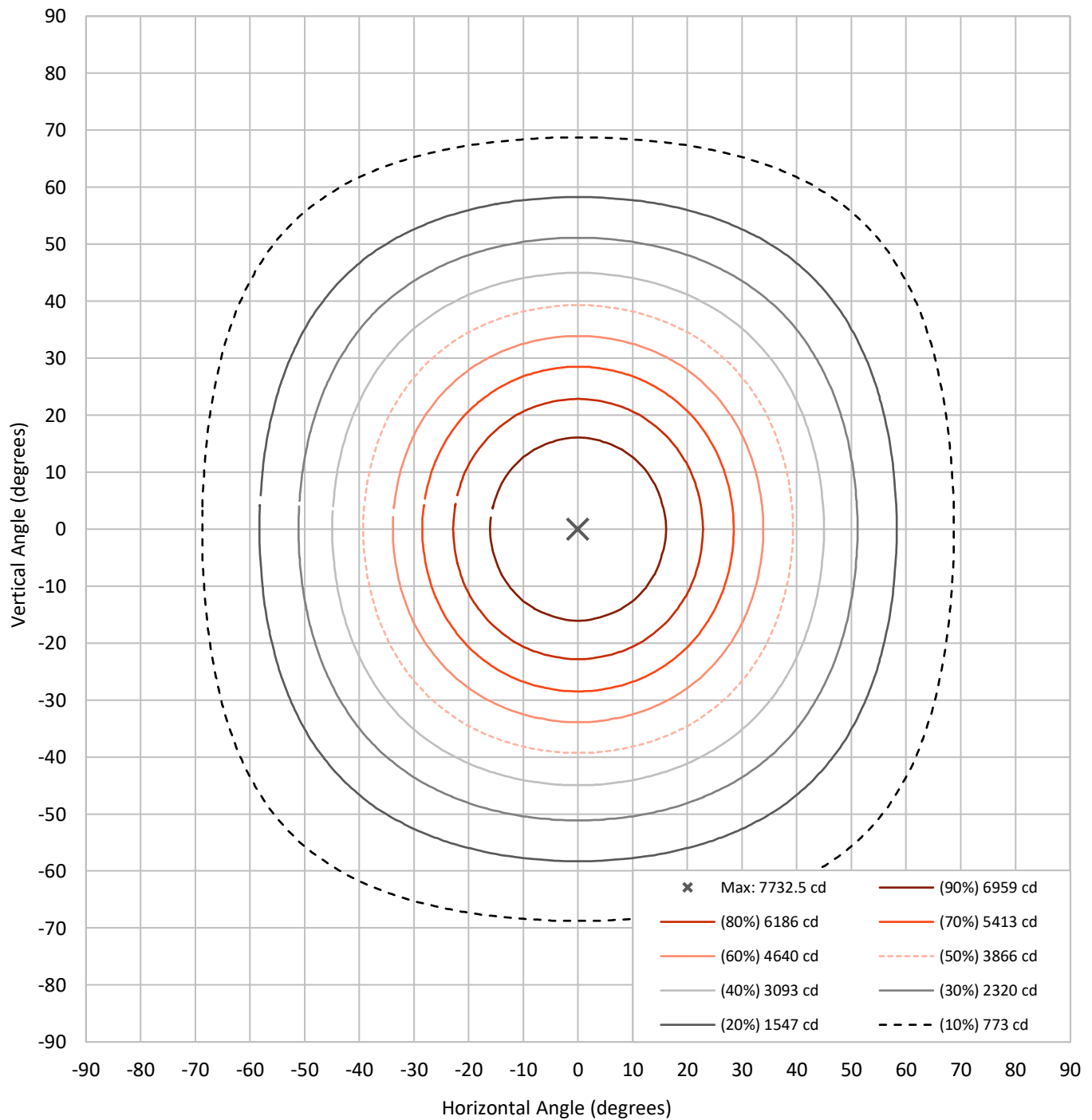
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	13922.5 lumens	Max Intensity:	7732.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	86.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	6024.1 lumens	Field Lumens:	9864.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	160.8		
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		



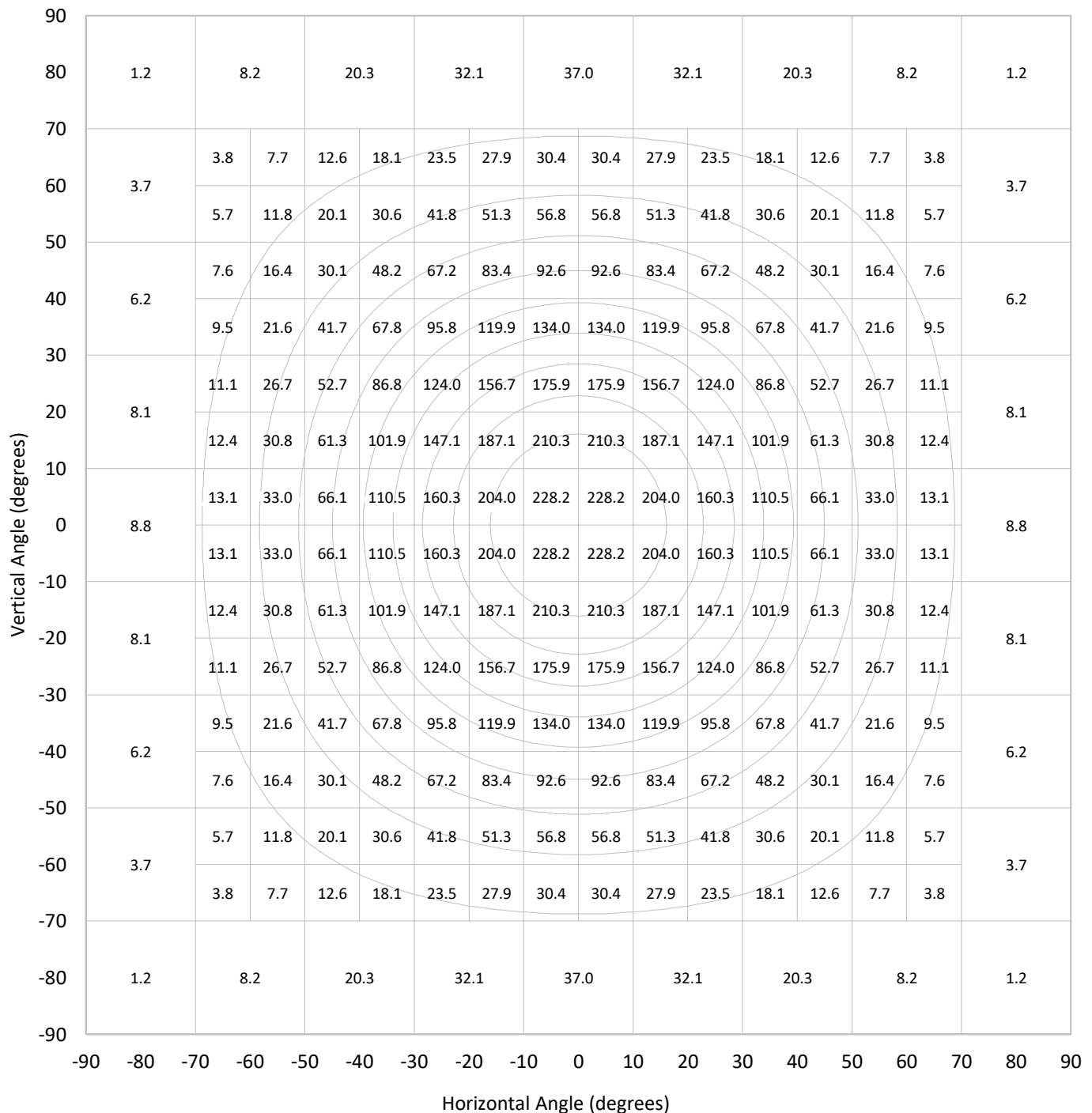
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Iso-Candela Plot



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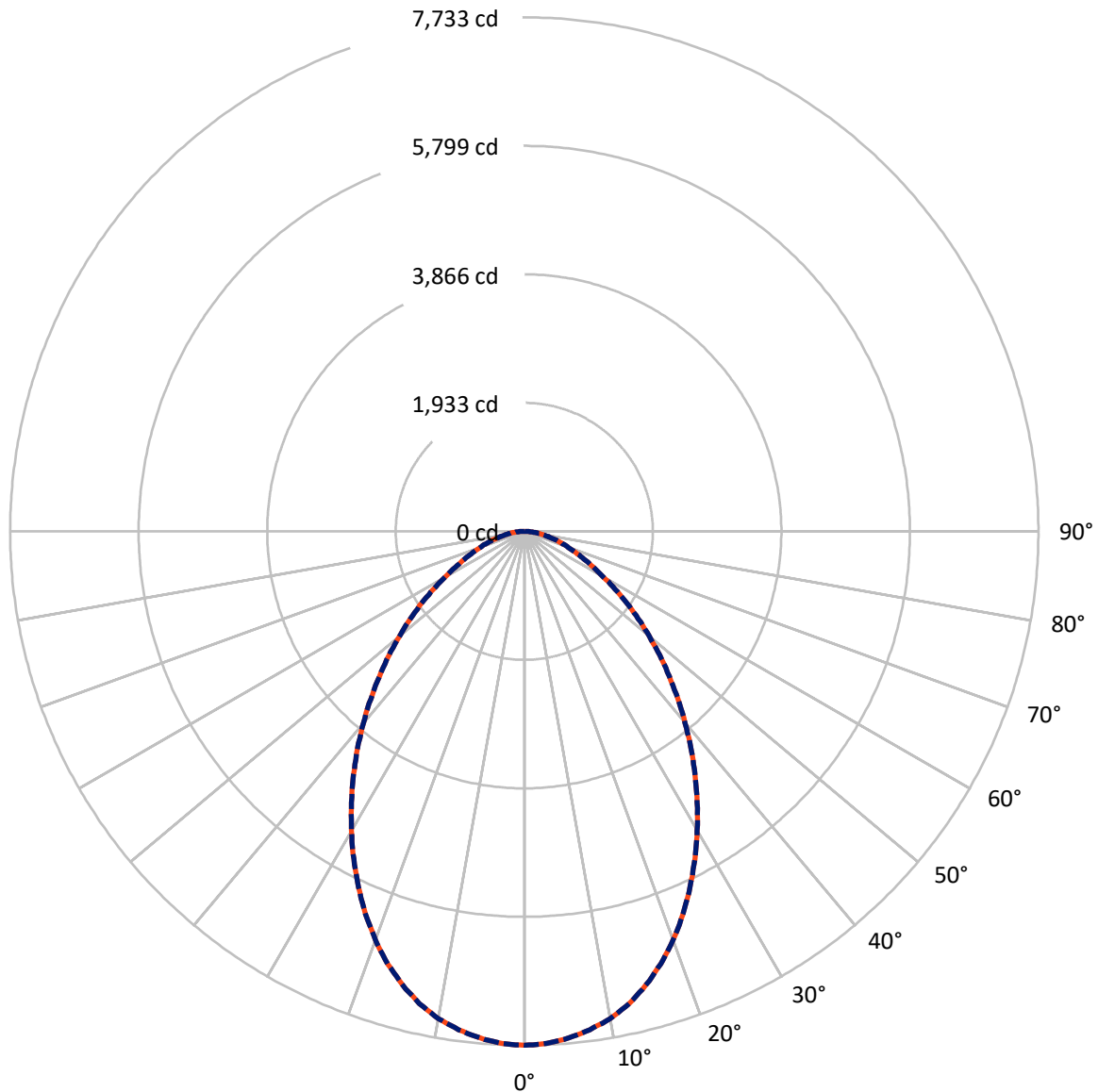
Lumen Table



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Luminous Intensity Polar Plot



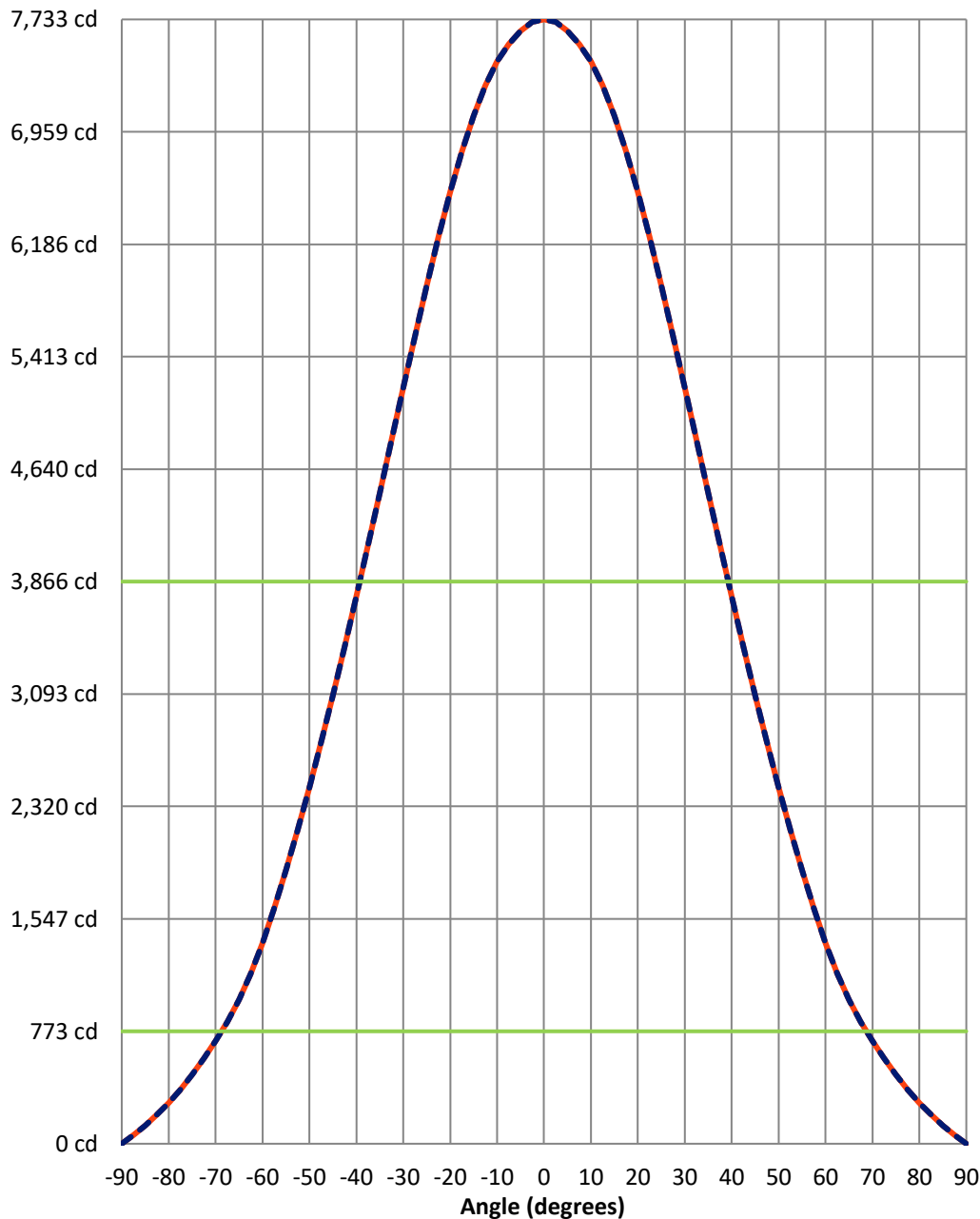
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 6024.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 9864.3
Efficiency: 70.9%

Spill:

Lumens: 4058.2
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°	59.5	59.5	59.5	59.5	59.5	59.5	59.5	56.6	56.6	55.2	53.7
85°	124.8	124.8	124.8	124.8	124.8	121.9	120.5	119.0	117.6	114.7	113.2
82.5°	200.3	200.3	200.3	200.3	197.4	194.5	193.1	190.2	187.3	182.9	178.5
80°	280.2	280.2	280.2	280.2	275.8	272.9	268.5	265.6	261.3	255.5	249.7
77.5°	371.6	371.6	371.6	367.2	364.3	360.0	355.6	349.8	344.0	336.8	328.1
75°	474.7	474.7	474.7	468.9	464.5	460.1	452.9	445.6	436.9	426.8	415.1
72.5°	586.4	586.4	586.4	579.2	574.8	567.6	558.8	548.7	538.5	525.5	510.9
70°	706.9	706.9	706.9	698.2	690.9	683.7	672.1	660.5	645.9	631.4	614.0
67.5°	837.5	837.5	837.5	827.4	818.7	808.5	795.5	780.9	763.5	743.2	722.9
65°	990.0	990.0	984.2	975.4	965.3	950.8	934.8	914.5	892.7	866.6	839.0
62.5°	1170.0	1170.0	1161.2	1151.1	1138.0	1119.2	1097.4	1071.3	1040.8	1007.4	974.0
60°	1379.0	1379.0	1368.8	1355.8	1336.9	1313.7	1284.6	1251.2	1213.5	1171.4	1130.8
57.5°	1619.9	1619.9	1606.9	1589.5	1566.2	1537.2	1500.9	1458.8	1410.9	1358.7	1307.9
55°	1881.2	1881.2	1865.3	1844.9	1817.4	1782.5	1739.0	1689.6	1631.6	1572.0	1506.7
52.5°	2158.5	2158.5	2139.6	2116.4	2084.4	2043.8	1994.4	1936.4	1869.6	1799.9	1723.0
50°	2450.2	2450.2	2428.5	2402.3	2366.0	2318.1	2261.5	2194.8	2120.7	2039.4	1950.9
47.5°	2762.3	2762.3	2737.6	2707.2	2663.6	2608.5	2541.7	2464.7	2380.6	2289.1	2189.0
45°	3083.1	3083.1	3055.5	3020.7	2972.8	2910.4	2836.3	2762.3	2654.9	2548.9	2432.8
42.5°	3417.0	3417.0	3385.0	3345.8	3290.7	3222.5	3138.3	3042.5	2936.5	2817.5	2691.2
40°	3763.9	3763.9	3727.6	3682.6	3621.6	3543.3	3448.9	3341.5	3222.5	3090.4	2951.0
37.5°	4118.1	4118.1	4077.4	4028.1	3959.9	3872.8	3766.8	3647.8	3514.2	3367.6	3213.8
35°	4475.2	4475.2	4430.2	4376.4	4301.0	4205.2	4090.5	3958.4	3810.3	3650.7	3477.9
32.5°	4839.5	4839.5	4790.1	4729.2	4643.5	4537.6	4411.3	4267.6	4118.1	3932.3	3743.6
30°	5199.5	5199.5	5145.8	5079.0	4987.6	4871.4	4733.5	4575.3	4399.7	4209.5	4006.3
27.5°	5553.7	5539.1	5494.1	5423.0	5322.9	5199.5	5050.0	4878.7	4688.5	4479.5	4261.8
25°	5902.0	5886.1	5836.7	5758.3	5650.9	5515.9	5354.8	5171.9	4967.2	4746.6	4508.5
22.5°	6235.9	6218.5	6166.2	6082.0	5967.4	5820.7	5648.0	5452.1	5234.3	4997.7	4746.6
20°	6545.1	6526.2	6472.5	6384.0	6264.9	6109.6	5926.7	5716.2	5484.0	5234.3	4967.2
17.5°	6823.8	6804.9	6748.3	6656.8	6545.1	6372.3	6183.6	5961.6	5716.2	5452.1	5171.9
15°	7069.1	7048.8	6990.7	6899.3	6771.5	6608.9	6410.1	6183.6	5926.7	5648.0	5354.8
12.5°	7278.1	7257.8	7198.3	7106.8	6974.7	6812.2	6608.9	6372.3	6109.6	5820.7	5515.9
10°	7443.6	7423.3	7366.7	7279.6	7143.1	6974.7	6771.5	6545.1	6264.9	5967.4	5650.9
7.5°	7562.6	7543.7	7491.5	7404.4	7279.6	7106.8	6899.3	6656.8	6384.0	6082.0	5758.3
5°	7652.6	7630.8	7578.6	7491.5	7366.7	7198.3	6990.7	6748.3	6472.5	6166.2	5836.7
2.5°	7715.0	7688.9	7630.8	7543.7	7423.3	7257.8	7048.8	6804.9	6526.2	6218.5	5886.1
0°	7732.5	7715.0	7652.6	7562.6	7443.6	7278.1	7069.1	6823.8	6545.1	6235.9	5902.0

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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°	52.3	52.3	50.8	49.4	47.9	45.0	43.5	42.1	40.6	37.7	36.3
85°	110.3	107.4	104.5	101.6	97.3	94.4	90.0	87.1	82.7	78.4	74.0
82.5°	174.2	169.8	164.0	159.7	153.9	146.6	140.8	133.5	126.3	120.5	113.2
80°	243.9	236.6	229.3	222.1	213.4	204.7	196.0	187.3	177.1	166.9	156.8
77.5°	319.3	309.2	299.0	287.4	277.2	265.6	254.0	242.4	229.3	216.3	203.2
75°	403.5	390.5	376.0	361.4	348.4	332.4	316.4	300.5	283.1	267.1	249.7
72.5°	495.0	479.0	461.6	444.2	425.3	405.0	384.7	362.9	342.6	322.2	300.5
70°	593.7	574.8	553.0	531.3	508.0	483.4	458.7	432.6	406.4	380.3	354.2
67.5°	699.7	676.4	650.3	624.2	595.1	566.1	537.1	506.6	474.7	442.7	412.2
65°	812.9	783.8	753.4	720.0	686.6	653.2	618.4	582.1	545.8	508.0	474.7
62.5°	939.2	902.9	863.7	823.0	785.3	744.6	706.9	661.9	618.4	576.3	534.2
60°	1085.8	1037.9	990.0	939.2	891.3	839.0	792.6	743.2	693.8	645.9	596.6
57.5°	1249.8	1188.8	1130.8	1069.8	1005.9	947.9	888.4	828.8	773.7	717.1	663.4
55°	1435.6	1361.6	1289.0	1213.5	1139.5	1066.9	991.4	924.6	856.4	792.6	730.1
52.5°	1638.8	1554.6	1464.6	1379.0	1284.6	1194.6	1110.4	1026.3	946.4	869.5	798.4
50°	1856.5	1757.8	1654.8	1550.3	1442.8	1336.9	1235.3	1136.6	1043.7	953.7	869.5
47.5°	2083.0	1971.2	1853.6	1734.6	1619.9	1490.8	1368.8	1257.0	1145.3	1043.7	946.4
45°	2315.2	2189.0	2059.8	1924.8	1789.8	1650.4	1515.4	1379.0	1257.0	1136.6	1026.3
42.5°	2554.7	2412.5	2268.8	2119.3	1969.8	1817.4	1664.9	1515.4	1368.8	1235.3	1110.4
40°	2801.5	2644.7	2480.7	2318.1	2158.5	1984.3	1817.4	1650.4	1490.8	1336.9	1194.6
37.5°	3048.3	2877.0	2699.9	2517.0	2334.1	2158.5	1969.8	1789.8	1619.9	1442.8	1284.6
35°	3296.5	3107.8	2916.2	2717.3	2517.0	2318.1	2119.3	1924.8	1734.6	1550.3	1379.0
32.5°	3546.2	3340.0	3128.1	2916.2	2699.9	2480.7	2268.8	2059.8	1853.6	1654.8	1464.6
30°	3791.5	3567.9	3340.0	3107.8	2877.0	2644.7	2412.5	2189.0	1971.2	1757.8	1554.6
27.5°	4031.0	3791.5	3546.2	3296.5	3048.3	2801.5	2554.7	2315.2	2083.0	1856.5	1638.8
25°	4261.8	4006.3	3743.6	3477.9	3213.8	2951.0	2691.2	2432.8	2189.0	1950.9	1723.0
22.5°	4479.5	4209.5	3932.3	3650.7	3367.6	3090.4	2817.5	2548.9	2289.1	2039.4	1799.9
20°	4688.5	4399.7	4118.1	3810.3	3514.2	3222.5	2936.5	2654.9	2380.6	2120.7	1869.6
17.5°	4878.7	4575.3	4267.6	3958.4	3647.8	3341.5	3042.5	2762.3	2464.7	2194.8	1936.4
15°	5050.0	4733.5	4411.3	4090.5	3766.8	3448.9	3138.3	2836.3	2541.7	2261.5	1994.4
12.5°	5199.5	4871.4	4537.6	4205.2	3872.8	3543.3	3222.5	2910.4	2608.5	2318.1	2043.8
10°	5322.9	4987.6	4643.5	4301.0	3959.9	3621.6	3290.7	2972.8	2663.6	2366.0	2084.4
7.5°	5423.0	5079.0	4729.2	4376.4	4028.1	3682.6	3345.8	3020.7	2707.2	2402.3	2116.4
5°	5494.1	5145.8	4790.1	4430.2	4077.4	3727.6	3385.0	3055.5	2737.6	2428.5	2139.6
2.5°	5539.1	5199.5	4839.5	4475.2	4118.1	3763.9	3417.0	3083.1	2762.3	2450.2	2158.5
0°	5553.7	5199.5	4839.5	4475.2	4118.1	3763.9	3417.0	3083.1	2762.3	2450.2	2158.5

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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°	34.8	31.9	29.0	27.6	24.7	23.2	20.3	17.4	16.0	13.1	10.2
85°	69.7	63.9	59.5	55.2	50.8	45.0	40.6	36.3	30.5	26.1	20.3
82.5°	106.0	98.7	91.4	84.2	76.9	69.7	61.0	53.7	46.4	39.2	30.5
80°	146.6	135.0	124.8	114.7	104.5	94.4	82.7	72.6	61.0	50.8	40.6
77.5°	188.7	175.6	161.1	146.6	132.1	119.0	104.5	91.4	78.4	63.9	50.8
75°	233.7	216.3	200.3	181.4	164.0	145.2	127.7	110.3	94.4	78.4	61.0
72.5°	280.2	258.4	236.6	216.3	194.5	172.7	152.4	130.6	110.3	91.4	72.6
70°	328.1	301.9	275.8	251.1	226.4	200.3	177.1	152.4	127.7	104.5	82.7
67.5°	378.9	348.4	317.9	286.0	258.4	229.3	200.3	172.7	145.2	119.0	94.4
65°	434.0	397.7	360.0	326.6	290.3	258.4	226.4	194.5	164.0	132.1	104.5
62.5°	490.6	448.5	406.4	364.3	326.6	286.0	251.1	216.3	181.4	146.6	114.7
60°	548.7	500.8	452.9	406.4	360.0	317.9	275.8	236.6	200.3	161.1	124.8
57.5°	608.2	554.5	500.8	448.5	397.7	348.4	301.9	258.4	216.3	175.6	135.0
55°	669.2	608.2	548.7	490.6	434.0	378.9	328.1	280.2	233.7	188.7	146.6
52.5°	730.1	663.4	596.6	534.2	474.7	412.2	354.2	300.5	249.7	203.2	156.8
50°	792.6	717.1	645.9	576.3	508.0	442.7	380.3	322.2	267.1	216.3	166.9
47.5°	856.4	773.7	693.8	618.4	545.8	474.7	406.4	342.6	283.1	229.3	177.1
45°	924.6	828.8	743.2	661.9	582.1	506.6	432.6	362.9	300.5	242.4	187.3
42.5°	991.4	888.4	792.6	706.9	618.4	537.1	458.7	384.7	316.4	254.0	196.0
40°	1066.9	947.9	839.0	744.6	653.2	566.1	483.4	405.0	332.4	265.6	204.7
37.5°	1139.5	1005.9	891.3	785.3	686.6	595.1	508.0	425.3	348.4	277.2	213.4
35°	1213.5	1069.8	939.2	823.0	720.0	624.2	531.3	444.2	361.4	287.4	222.1
32.5°	1289.0	1130.8	990.0	863.7	753.4	650.3	553.0	461.6	376.0	299.0	229.3
30°	1361.6	1188.8	1037.9	902.9	783.8	676.4	574.8	479.0	390.5	309.2	236.6
27.5°	1435.6	1249.8	1085.8	939.2	812.9	699.7	593.7	495.0	403.5	319.3	243.9
25°	1506.7	1307.9	1130.8	974.0	839.0	722.9	614.0	510.9	415.1	328.1	249.7
22.5°	1572.0	1358.7	1171.4	1007.4	866.6	743.2	631.4	525.5	426.8	336.8	255.5
20°	1631.6	1410.9	1213.5	1040.8	892.7	763.5	645.9	538.5	436.9	344.0	261.3
17.5°	1689.6	1458.8	1251.2	1071.3	914.5	780.9	660.5	548.7	445.6	349.8	265.6
15°	1739.0	1500.9	1284.6	1097.4	934.8	795.5	672.1	558.8	452.9	355.6	268.5
12.5°	1782.5	1537.2	1313.7	1119.2	950.8	808.5	683.7	567.6	460.1	360.0	272.9
10°	1817.4	1566.2	1336.9	1138.0	965.3	818.7	690.9	574.8	464.5	364.3	275.8
7.5°	1844.9	1589.5	1355.8	1151.1	975.4	827.4	698.2	579.2	468.9	367.2	280.2
5°	1865.3	1606.9	1368.8	1161.2	984.2	837.5	706.9	586.4	474.7	371.6	280.2
2.5°	1881.2	1619.9	1379.0	1170.0	990.0	837.5	706.9	586.4	474.7	371.6	280.2
0°	1881.2	1619.9	1379.0	1170.0	990.0	837.5	706.9	586.4	474.7	371.6	280.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.3	5.8	2.9	0.0
85°	16.0	10.2	5.8	0.0
82.5°	23.2	16.0	7.3	0.0
80°	30.5	20.3	10.2	0.0
77.5°	39.2	26.1	13.1	0.0
75°	46.4	30.5	16.0	0.0
72.5°	53.7	36.3	17.4	0.0
70°	61.0	40.6	20.3	0.0
67.5°	69.7	45.0	23.2	0.0
65°	76.9	50.8	24.7	0.0
62.5°	84.2	55.2	27.6	0.0
60°	91.4	59.5	29.0	0.0
57.5°	98.7	63.9	31.9	0.0
55°	106.0	69.7	34.8	0.0
52.5°	113.2	74.0	36.3	0.0
50°	120.5	78.4	37.7	0.0
47.5°	126.3	82.7	40.6	0.0
45°	133.5	87.1	42.1	0.0
42.5°	140.8	90.0	43.5	0.0
40°	146.6	94.4	45.0	0.0
37.5°	153.9	97.3	47.9	0.0
35°	159.7	101.6	49.4	0.0
32.5°	164.0	104.5	50.8	0.0
30°	169.8	107.4	52.3	0.0
27.5°	174.2	110.3	52.3	0.0
25°	178.5	113.2	53.7	0.0
22.5°	182.9	114.7	55.2	0.0
20°	187.3	117.6	56.6	0.0
17.5°	190.2	119.0	56.6	0.0
15°	193.1	120.5	59.5	0.0
12.5°	194.5	121.9	59.5	0.0
10°	197.4	124.8	59.5	0.0
7.5°	200.3	124.8	59.5	0.0
5°	200.3	124.8	59.5	0.0
2.5°	200.3	124.8	59.5	0.0
0°	200.3	124.8	59.5	0.0

(END OF REPORT)