

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: P623815

Luminaire Tested: **IFLD-S-SA2E-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623815
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

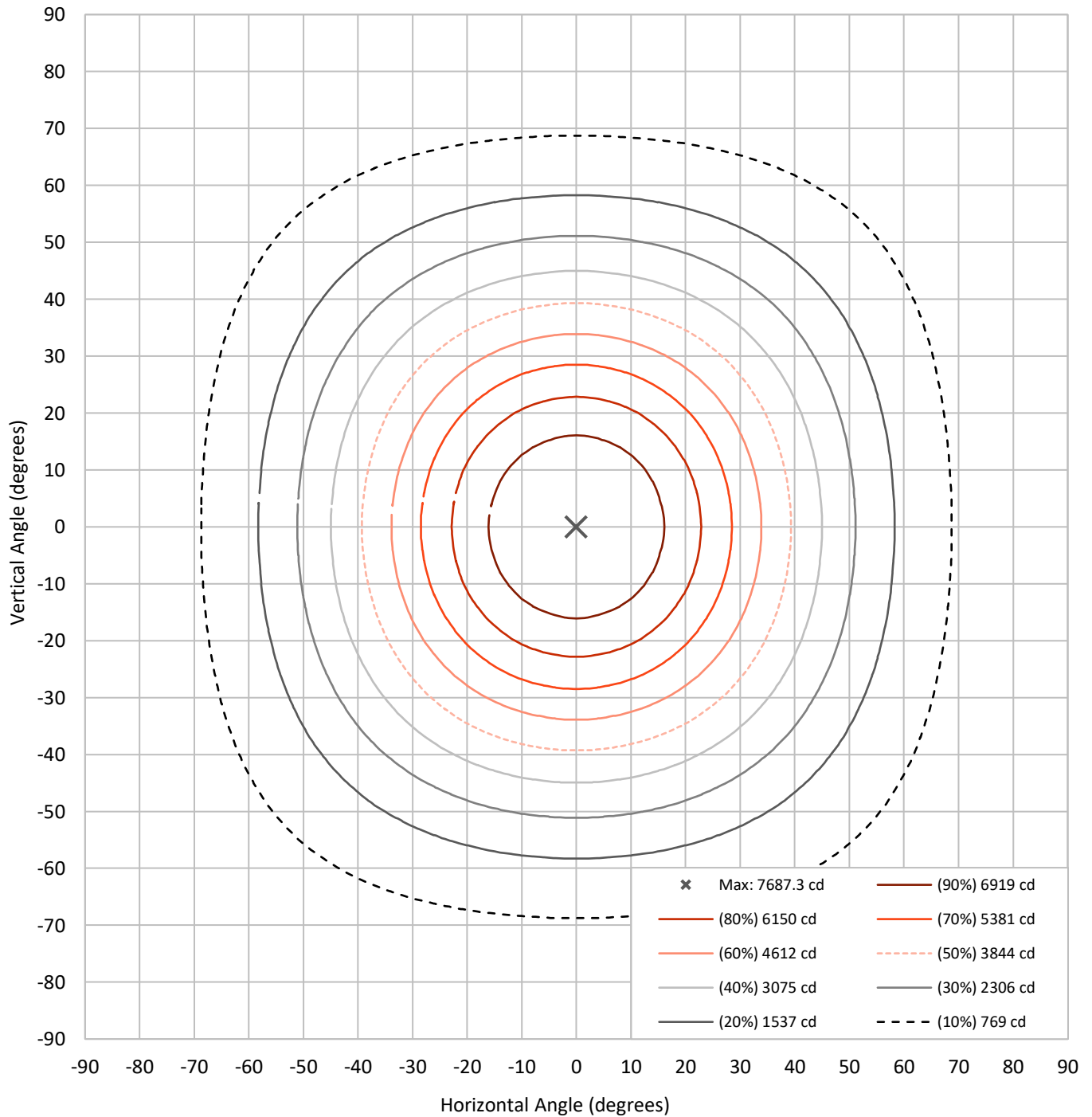
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	13841.2 lumens	Max Intensity:	7687.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	88.6 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:	5988.9 lumens	Field Lumens:	9806.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	156.2		
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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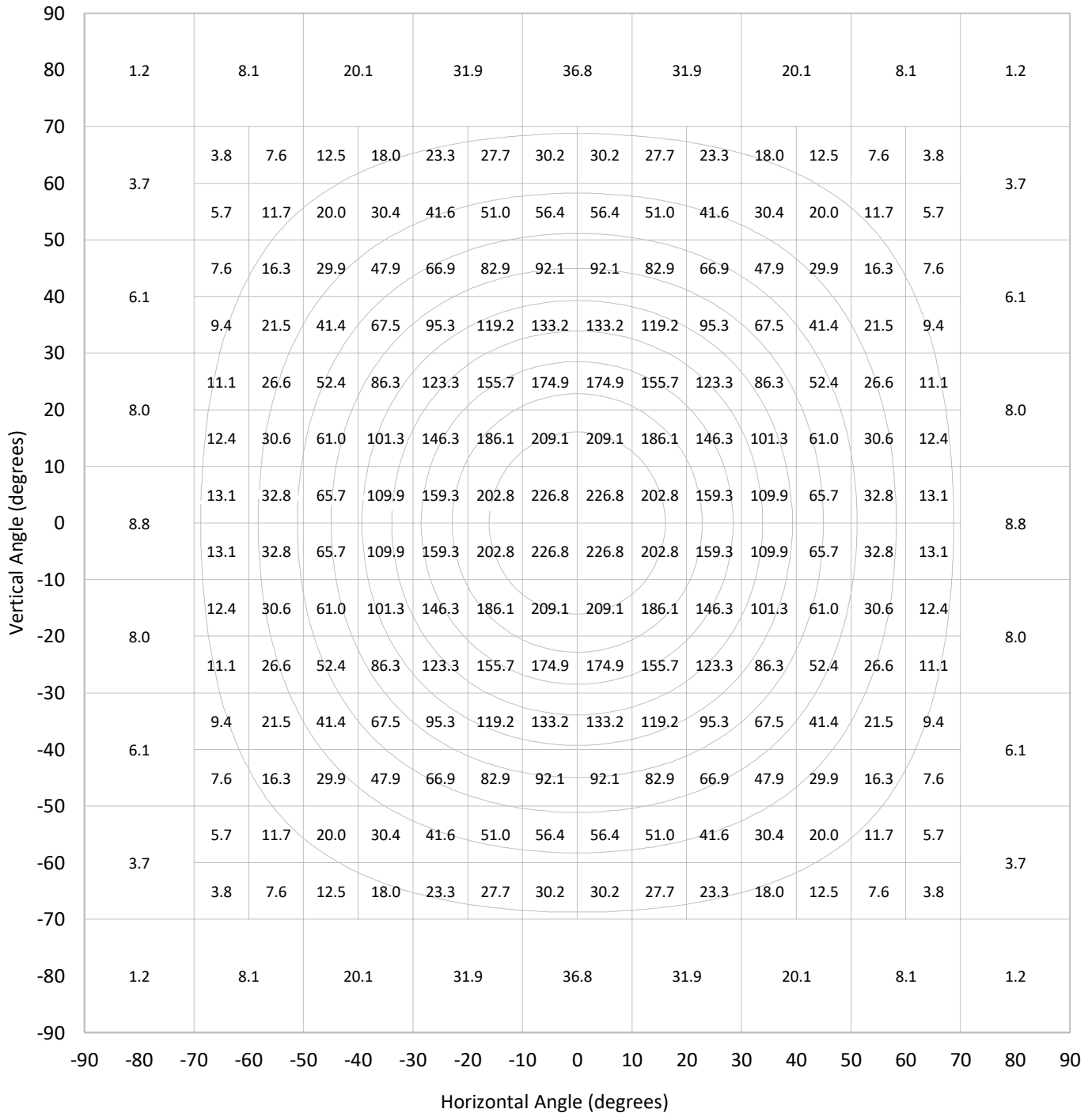
Iso-Candela Plot





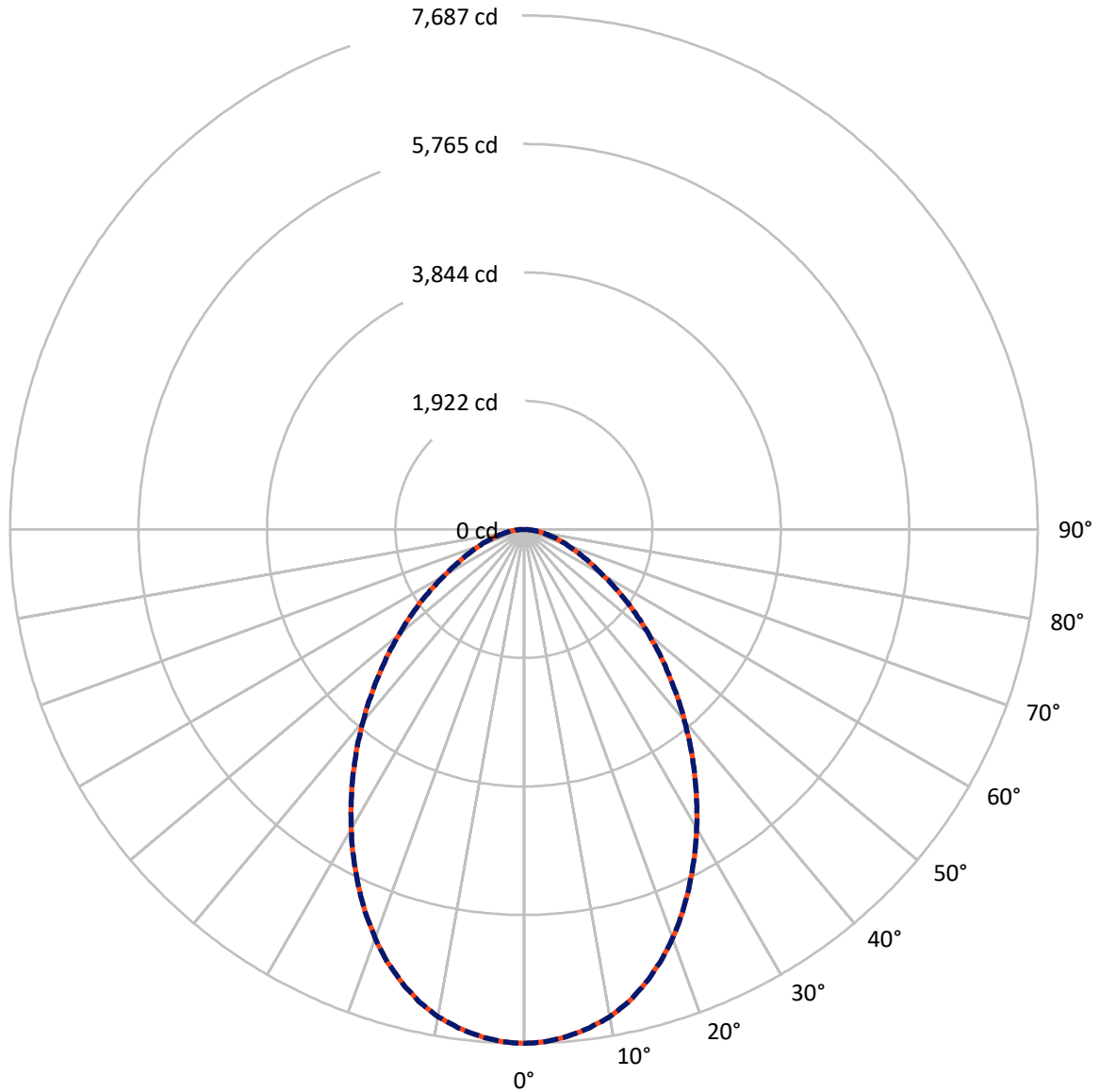
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Lumen Table



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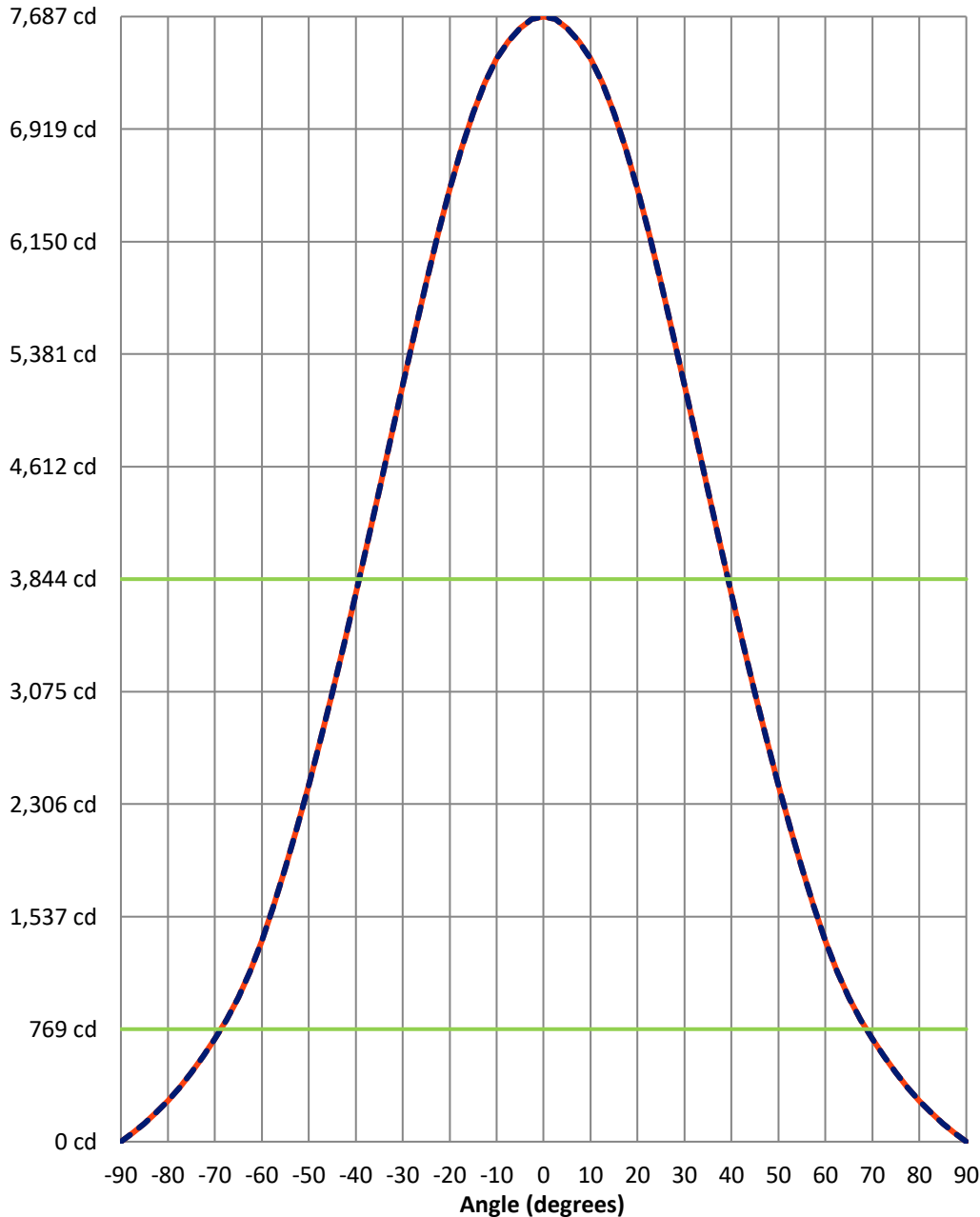
Luminous Intensity Polar Plot



— 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: 5988.9
 Efficiency: 43.3%

Field:
 H Angle: 137.5°
 V Angle: 137.5°
 Lumens: 9806.7
 Efficiency: 70.9%

Spill:
 Lumens: 4034.5
 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°	59.2	59.2	59.2	59.2	59.2	59.2	59.2	56.3	56.3	54.8	53.4
85°	124.1	124.1	124.1	124.1	124.1	121.2	119.8	118.3	116.9	114.0	112.6
82.5°	199.1	199.1	199.1	199.1	196.3	193.4	191.9	189.0	186.2	181.8	177.5
80°	278.5	278.5	278.5	278.5	274.2	271.3	267.0	264.1	259.8	254.0	248.2
77.5°	369.4	369.4	369.4	365.1	362.2	357.9	353.6	347.8	342.0	334.8	326.1
75°	471.9	471.9	471.9	466.1	461.8	457.5	450.2	443.0	434.4	424.3	412.7
72.5°	583.0	583.0	583.0	575.8	571.5	564.2	555.6	545.5	535.4	522.4	508.0
70°	702.8	702.8	702.8	694.1	686.9	679.7	668.1	656.6	642.2	627.7	610.4
67.5°	832.7	832.7	832.7	822.6	813.9	803.8	790.8	776.4	759.1	738.9	718.7
65°	984.2	984.2	978.4	969.8	959.6	945.2	929.3	909.1	887.5	861.5	834.1
62.5°	1163.1	1163.1	1154.5	1144.4	1131.4	1112.6	1091.0	1065.0	1034.7	1001.5	968.3
60°	1370.9	1370.9	1360.8	1347.8	1329.1	1306.0	1277.1	1243.9	1206.4	1164.6	1124.2
57.5°	1610.5	1610.5	1597.5	1580.2	1557.1	1528.2	1492.1	1450.3	1402.7	1350.7	1300.2
55°	1870.2	1870.2	1854.4	1834.2	1806.7	1772.1	1728.8	1679.7	1622.0	1562.9	1497.9
52.5°	2145.9	2145.9	2127.1	2104.0	2072.3	2031.9	1982.8	1925.1	1858.7	1789.4	1712.9
50°	2435.9	2435.9	2414.3	2388.3	2352.2	2304.6	2248.3	2181.9	2108.3	2027.5	1939.5
47.5°	2746.2	2746.2	2721.7	2691.3	2648.1	2593.2	2526.8	2450.4	2366.7	2275.7	2176.2
45°	3065.1	3065.1	3037.7	3003.1	2955.4	2893.4	2819.8	2746.2	2639.4	2534.1	2418.6
42.5°	3397.0	3397.0	3365.3	3326.3	3271.5	3203.6	3119.9	3024.7	2919.4	2801.0	2675.5
40°	3741.9	3741.9	3705.8	3661.1	3600.5	3522.6	3428.8	3322.0	3203.6	3072.3	2933.8
37.5°	4094.0	4094.0	4053.6	4004.6	3936.7	3850.1	3744.8	3626.5	3493.7	3347.9	3195.0
35°	4449.0	4449.0	4404.3	4350.9	4275.8	4180.6	4066.6	3935.3	3788.1	3629.3	3457.6
32.5°	4811.2	4811.2	4762.2	4701.6	4616.4	4511.1	4385.5	4242.7	4094.0	3909.3	3721.7
30°	5169.1	5169.1	5115.7	5049.3	4958.4	4843.0	4705.9	4548.6	4374.0	4184.9	3982.9
27.5°	5521.2	5506.8	5462.1	5391.4	5291.8	5169.1	5020.5	4850.2	4661.2	4453.3	4236.9
25°	5867.6	5851.7	5802.6	5724.7	5617.9	5483.7	5323.5	5141.7	4938.2	4718.9	4482.2
22.5°	6199.5	6182.2	6130.2	6046.5	5932.5	5786.8	5615.0	5420.2	5203.8	4968.5	4718.9
20°	6506.9	6488.1	6434.7	6346.7	6228.3	6073.9	5892.1	5682.9	5452.0	5203.8	4938.2
17.5°	6783.9	6765.2	6708.9	6618.0	6506.9	6335.1	6147.5	5926.7	5682.9	5420.2	5141.7
15°	7027.8	7007.6	6949.9	6859.0	6732.0	6570.3	6372.6	6147.5	5892.1	5615.0	5323.5
12.5°	7235.6	7215.4	7156.2	7065.3	6934.0	6772.4	6570.3	6335.1	6073.9	5786.8	5483.7
10°	7400.1	7379.9	7323.6	7237.1	7101.4	6934.0	6732.0	6506.9	6228.3	5932.5	5617.9
7.5°	7518.5	7499.7	7447.7	7361.2	7237.1	7065.3	6859.0	6618.0	6346.7	6046.5	5724.7
5°	7607.9	7586.3	7534.3	7447.7	7323.6	7156.2	6949.9	6708.9	6434.7	6130.2	5802.6
2.5°	7670.0	7644.0	7586.3	7499.7	7379.9	7215.4	7007.6	6765.2	6488.1	6182.2	5851.7
0°	7687.3	7670.0	7607.9	7518.5	7400.1	7235.6	7027.8	6783.9	6506.9	6199.5	5867.6



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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°	52.0	52.0	50.5	49.1	47.6	44.7	43.3	41.8	40.4	37.5	36.1
85°	109.7	106.8	103.9	101.0	96.7	93.8	89.5	86.6	82.3	77.9	73.6
82.5°	173.2	168.8	163.1	158.7	153.0	145.8	140.0	132.8	125.5	119.8	112.6
80°	242.4	235.2	228.0	220.8	212.1	203.5	194.8	186.2	176.1	166.0	155.9
77.5°	317.5	307.4	297.3	285.7	275.6	264.1	252.5	241.0	228.0	215.0	202.0
75°	401.2	388.2	373.8	359.3	346.3	330.5	314.6	298.7	281.4	265.5	248.2
72.5°	492.1	476.2	458.9	441.6	422.8	402.6	382.4	360.8	340.6	320.4	298.7
70°	590.2	571.5	549.8	528.2	505.1	480.5	456.0	430.0	404.1	378.1	352.1
67.5°	695.6	672.5	646.5	620.5	591.7	562.8	533.9	503.6	471.9	440.1	409.8
65°	808.1	779.3	749.0	715.8	682.6	649.4	614.8	578.7	542.6	505.1	471.9
62.5°	933.7	897.6	858.6	818.2	780.7	740.3	702.8	658.0	614.8	572.9	531.1
60°	1079.4	1031.8	984.2	933.7	886.1	834.1	787.9	738.9	689.8	642.2	593.1
57.5°	1242.5	1181.9	1124.2	1063.6	1000.1	942.3	883.2	824.0	769.2	712.9	659.5
55°	1427.2	1353.6	1281.5	1206.4	1132.8	1060.7	985.6	919.2	851.4	787.9	725.9
52.5°	1629.2	1545.5	1456.1	1370.9	1277.1	1187.7	1104.0	1020.3	940.9	864.4	793.7
50°	1845.7	1747.6	1645.1	1541.2	1434.4	1329.1	1228.1	1129.9	1037.6	948.1	864.4
47.5°	2070.8	1959.7	1842.8	1724.5	1610.5	1482.0	1360.8	1249.7	1138.6	1037.6	940.9
45°	2301.7	2176.2	2047.7	1913.5	1779.3	1640.8	1506.6	1370.9	1249.7	1129.9	1020.3
42.5°	2539.8	2398.4	2255.5	2106.9	1958.3	1806.7	1655.2	1506.6	1360.8	1228.1	1104.0
40°	2785.1	2629.3	2466.2	2304.6	2145.9	1972.7	1806.7	1640.8	1482.0	1329.1	1187.7
37.5°	3030.5	2860.2	2684.1	2502.3	2320.5	2145.9	1958.3	1779.3	1610.5	1434.4	1277.1
35°	3277.2	3089.6	2899.2	2701.4	2502.3	2304.6	2106.9	1913.5	1724.5	1541.2	1370.9
32.5°	3525.4	3320.5	3109.8	2899.2	2684.1	2466.2	2255.5	2047.7	1842.8	1645.1	1456.1
30°	3769.3	3547.1	3320.5	3089.6	2860.2	2629.3	2398.4	2176.2	1959.7	1747.6	1545.5
27.5°	4007.4	3769.3	3525.4	3277.2	3030.5	2785.1	2539.8	2301.7	2070.8	1845.7	1629.2
25°	4236.9	3982.9	3721.7	3457.6	3195.0	2933.8	2675.5	2418.6	2176.2	1939.5	1712.9
22.5°	4453.3	4184.9	3909.3	3629.3	3347.9	3072.3	2801.0	2534.1	2275.7	2027.5	1789.4
20°	4661.2	4374.0	4094.0	3788.1	3493.7	3203.6	2919.4	2639.4	2366.7	2108.3	1858.7
17.5°	4850.2	4548.6	4242.7	3935.3	3626.5	3322.0	3024.7	2746.2	2450.4	2181.9	1925.1
15°	5020.5	4705.9	4385.5	4066.6	3744.8	3428.8	3119.9	2819.8	2526.8	2248.3	1982.8
12.5°	5169.1	4843.0	4511.1	4180.6	3850.1	3522.6	3203.6	2893.4	2593.2	2304.6	2031.9
10°	5291.8	4958.4	4616.4	4275.8	3936.7	3600.5	3271.5	2955.4	2648.1	2352.2	2072.3
7.5°	5391.4	5049.3	4701.6	4350.9	4004.6	3661.1	3326.3	3003.1	2691.3	2388.3	2104.0
5°	5462.1	5115.7	4762.2	4404.3	4053.6	3705.8	3365.3	3037.7	2721.7	2414.3	2127.1
2.5°	5506.8	5169.1	4811.2	4449.0	4094.0	3741.9	3397.0	3065.1	2746.2	2435.9	2145.9
0°	5521.2	5169.1	4811.2	4449.0	4094.0	3741.9	3397.0	3065.1	2746.2	2435.9	2145.9



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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°	34.6	31.7	28.9	27.4	24.5	23.1	20.2	17.3	15.9	13.0	10.1
85°	69.3	63.5	59.2	54.8	50.5	44.7	40.4	36.1	30.3	26.0	20.2
82.5°	105.3	98.1	90.9	83.7	76.5	69.3	60.6	53.4	46.2	39.0	30.3
80°	145.8	134.2	124.1	114.0	103.9	93.8	82.3	72.2	60.6	50.5	40.4
77.5°	187.6	174.6	160.2	145.8	131.3	118.3	103.9	90.9	77.9	63.5	50.5
75°	232.3	215.0	199.1	180.4	163.1	144.3	127.0	109.7	93.8	77.9	60.6
72.5°	278.5	256.9	235.2	215.0	193.4	171.7	151.5	129.9	109.7	90.9	72.2
70°	326.1	300.2	274.2	249.7	225.1	199.1	176.1	151.5	127.0	103.9	82.3
67.5°	376.6	346.3	316.0	284.3	256.9	228.0	199.1	171.7	144.3	118.3	93.8
65°	431.5	395.4	357.9	324.7	288.6	256.9	225.1	193.4	163.1	131.3	103.9
62.5°	487.8	445.9	404.1	362.2	324.7	284.3	249.7	215.0	180.4	145.8	114.0
60°	545.5	497.9	450.2	404.1	357.9	316.0	274.2	235.2	199.1	160.2	124.1
57.5°	604.7	551.3	497.9	445.9	395.4	346.3	300.2	256.9	215.0	174.6	134.2
55°	665.3	604.7	545.5	487.8	431.5	376.6	326.1	278.5	232.3	187.6	145.8
52.5°	725.9	659.5	593.1	531.1	471.9	409.8	352.1	298.7	248.2	202.0	155.9
50°	787.9	712.9	642.2	572.9	505.1	440.1	378.1	320.4	265.5	215.0	166.0
47.5°	851.4	769.2	689.8	614.8	542.6	471.9	404.1	340.6	281.4	228.0	176.1
45°	919.2	824.0	738.9	658.0	578.7	503.6	430.0	360.8	298.7	241.0	186.2
42.5°	985.6	883.2	787.9	702.8	614.8	533.9	456.0	382.4	314.6	252.5	194.8
40°	1060.7	942.3	834.1	740.3	649.4	562.8	480.5	402.6	330.5	264.1	203.5
37.5°	1132.8	1000.1	886.1	780.7	682.6	591.7	505.1	422.8	346.3	275.6	212.1
35°	1206.4	1063.6	933.7	818.2	715.8	620.5	528.2	441.6	359.3	285.7	220.8
32.5°	1281.5	1124.2	984.2	858.6	749.0	646.5	549.8	458.9	373.8	297.3	228.0
30°	1353.6	1181.9	1031.8	897.6	779.3	672.5	571.5	476.2	388.2	307.4	235.2
27.5°	1427.2	1242.5	1079.4	933.7	808.1	695.6	590.2	492.1	401.2	317.5	242.4
25°	1497.9	1300.2	1124.2	968.3	834.1	718.7	610.4	508.0	412.7	326.1	248.2
22.5°	1562.9	1350.7	1164.6	1001.5	861.5	738.9	627.7	522.4	424.3	334.8	254.0
20°	1622.0	1402.7	1206.4	1034.7	887.5	759.1	642.2	535.4	434.4	342.0	259.8
17.5°	1679.7	1450.3	1243.9	1065.0	909.1	776.4	656.6	545.5	443.0	347.8	264.1
15°	1728.8	1492.1	1277.1	1091.0	929.3	790.8	668.1	555.6	450.2	353.6	267.0
12.5°	1772.1	1528.2	1306.0	1112.6	945.2	803.8	679.7	564.2	457.5	357.9	271.3
10°	1806.7	1557.1	1329.1	1131.4	959.6	813.9	686.9	571.5	461.8	362.2	274.2
7.5°	1834.2	1580.2	1347.8	1144.4	969.8	822.6	694.1	575.8	466.1	365.1	278.5
5°	1854.4	1597.5	1360.8	1154.5	978.4	832.7	702.8	583.0	471.9	369.4	278.5
2.5°	1870.2	1610.5	1370.9	1163.1	984.2	832.7	702.8	583.0	471.9	369.4	278.5
0°	1870.2	1610.5	1370.9	1163.1	984.2	832.7	702.8	583.0	471.9	369.4	278.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.2	5.8	2.9	0.0
85°	15.9	10.1	5.8	0.0
82.5°	23.1	15.9	7.2	0.0
80°	30.3	20.2	10.1	0.0
77.5°	39.0	26.0	13.0	0.0
75°	46.2	30.3	15.9	0.0
72.5°	53.4	36.1	17.3	0.0
70°	60.6	40.4	20.2	0.0
67.5°	69.3	44.7	23.1	0.0
65°	76.5	50.5	24.5	0.0
62.5°	83.7	54.8	27.4	0.0
60°	90.9	59.2	28.9	0.0
57.5°	98.1	63.5	31.7	0.0
55°	105.3	69.3	34.6	0.0
52.5°	112.6	73.6	36.1	0.0
50°	119.8	77.9	37.5	0.0
47.5°	125.5	82.3	40.4	0.0
45°	132.8	86.6	41.8	0.0
42.5°	140.0	89.5	43.3	0.0
40°	145.8	93.8	44.7	0.0
37.5°	153.0	96.7	47.6	0.0
35°	158.7	101.0	49.1	0.0
32.5°	163.1	103.9	50.5	0.0
30°	168.8	106.8	52.0	0.0
27.5°	173.2	109.7	52.0	0.0
25°	177.5	112.6	53.4	0.0
22.5°	181.8	114.0	54.8	0.0
20°	186.2	116.9	56.3	0.0
17.5°	189.0	118.3	56.3	0.0
15°	191.9	119.8	59.2	0.0
12.5°	193.4	121.2	59.2	0.0
10°	196.3	124.1	59.2	0.0
7.5°	199.1	124.1	59.2	0.0
5°	199.1	124.1	59.2	0.0
2.5°	199.1	124.1	59.2	0.0
0°	199.1	124.1	59.2	0.0

(END OF REPORT)