

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: P624573

Luminaire Tested: **IFLD-L-SA7A-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624573
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21577.3 lumens	Max Intensity:	11983.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	99.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' 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:	9336.3 lumens	Field Lumens:	15287.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

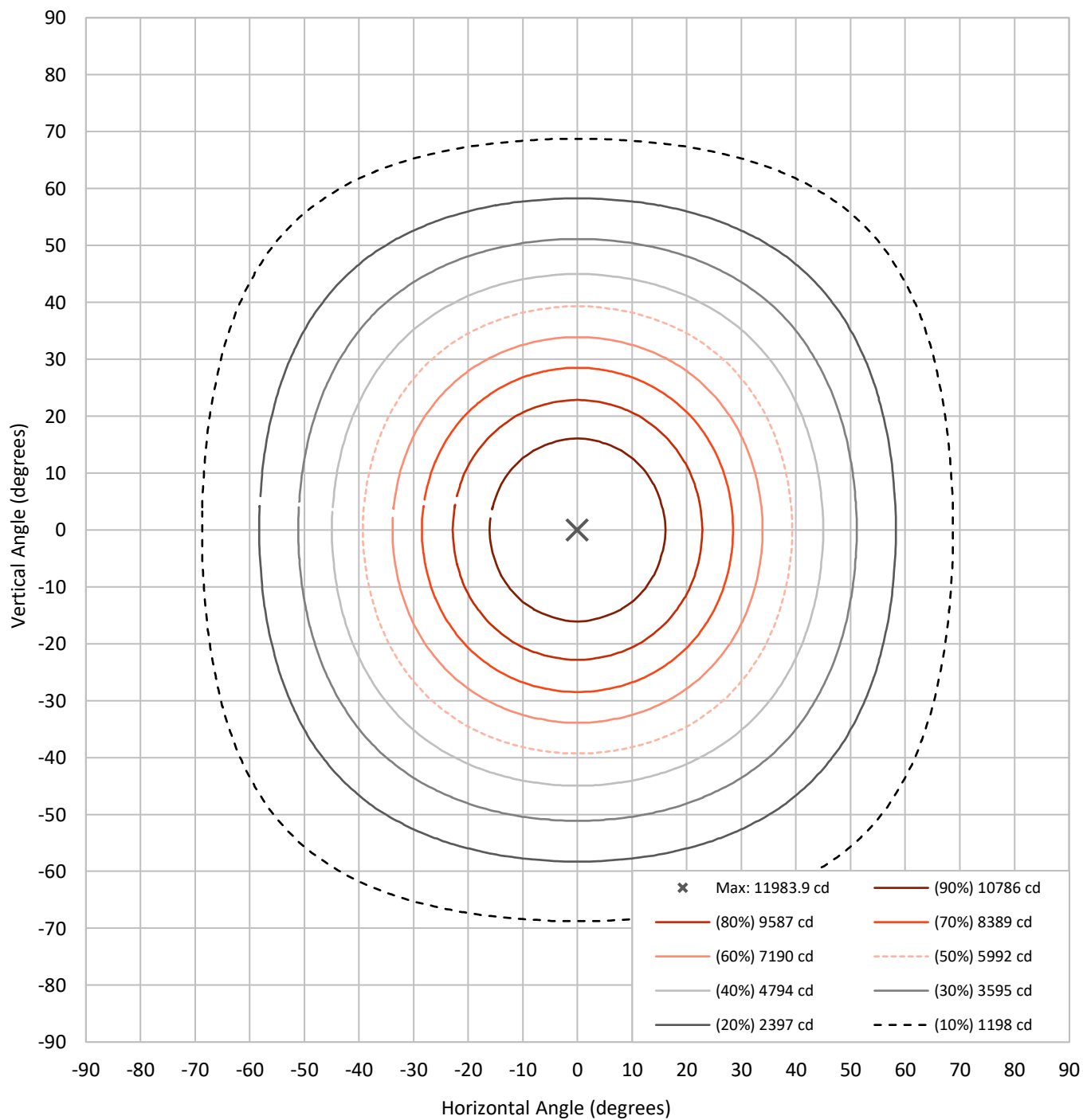
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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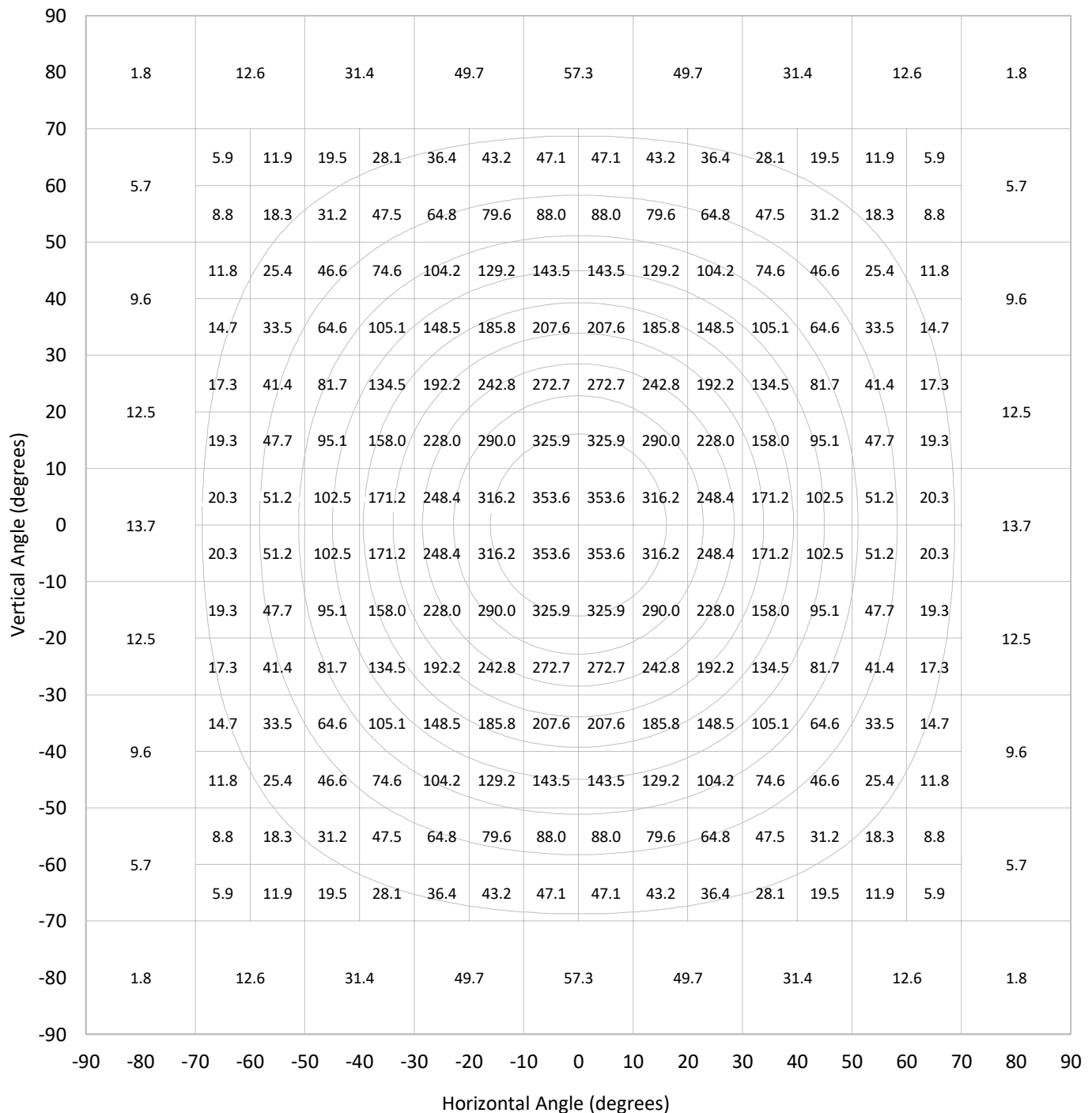
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Iso-Candela Plot



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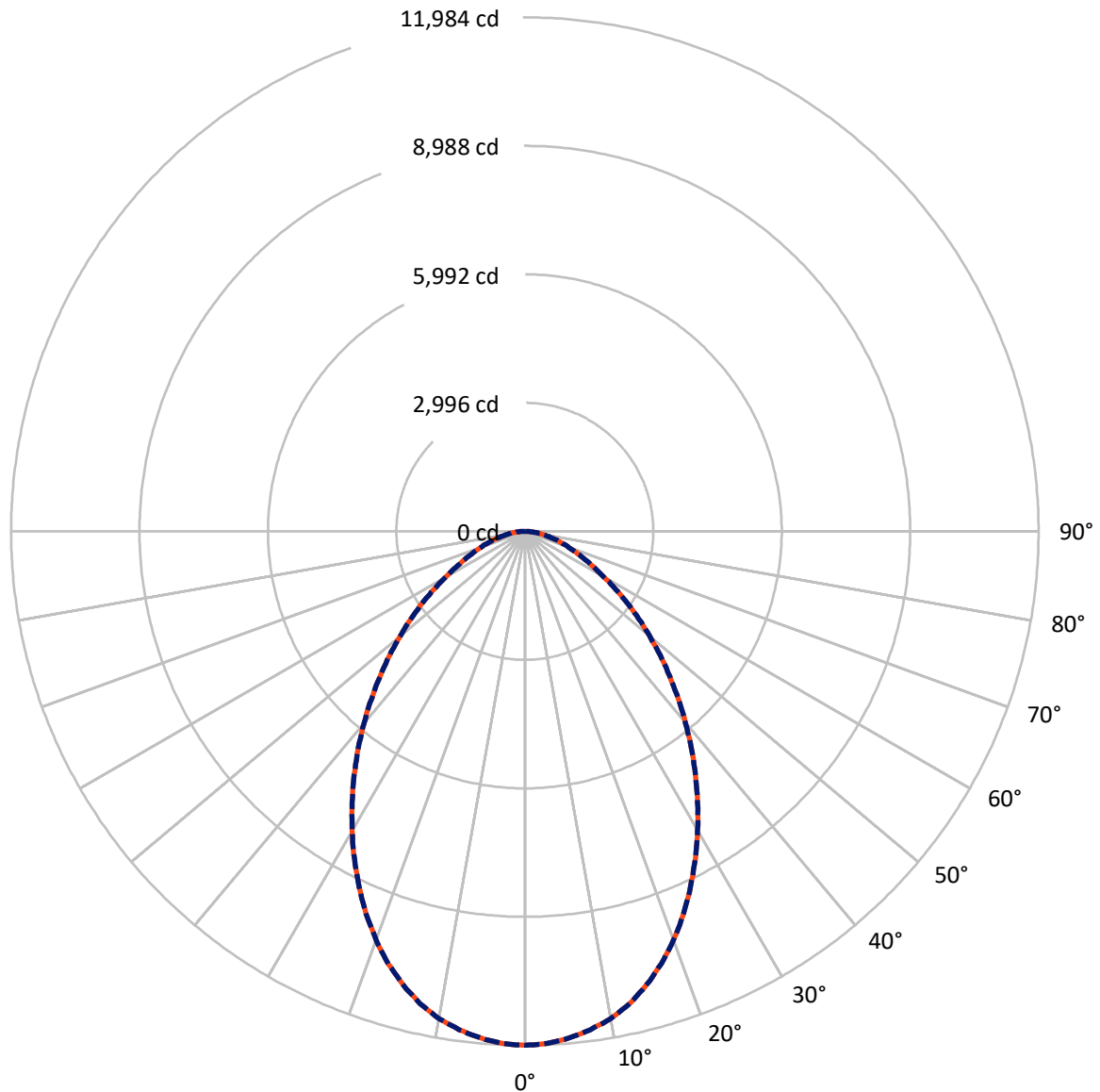
Lumen Table



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Luminous Intensity Polar Plot

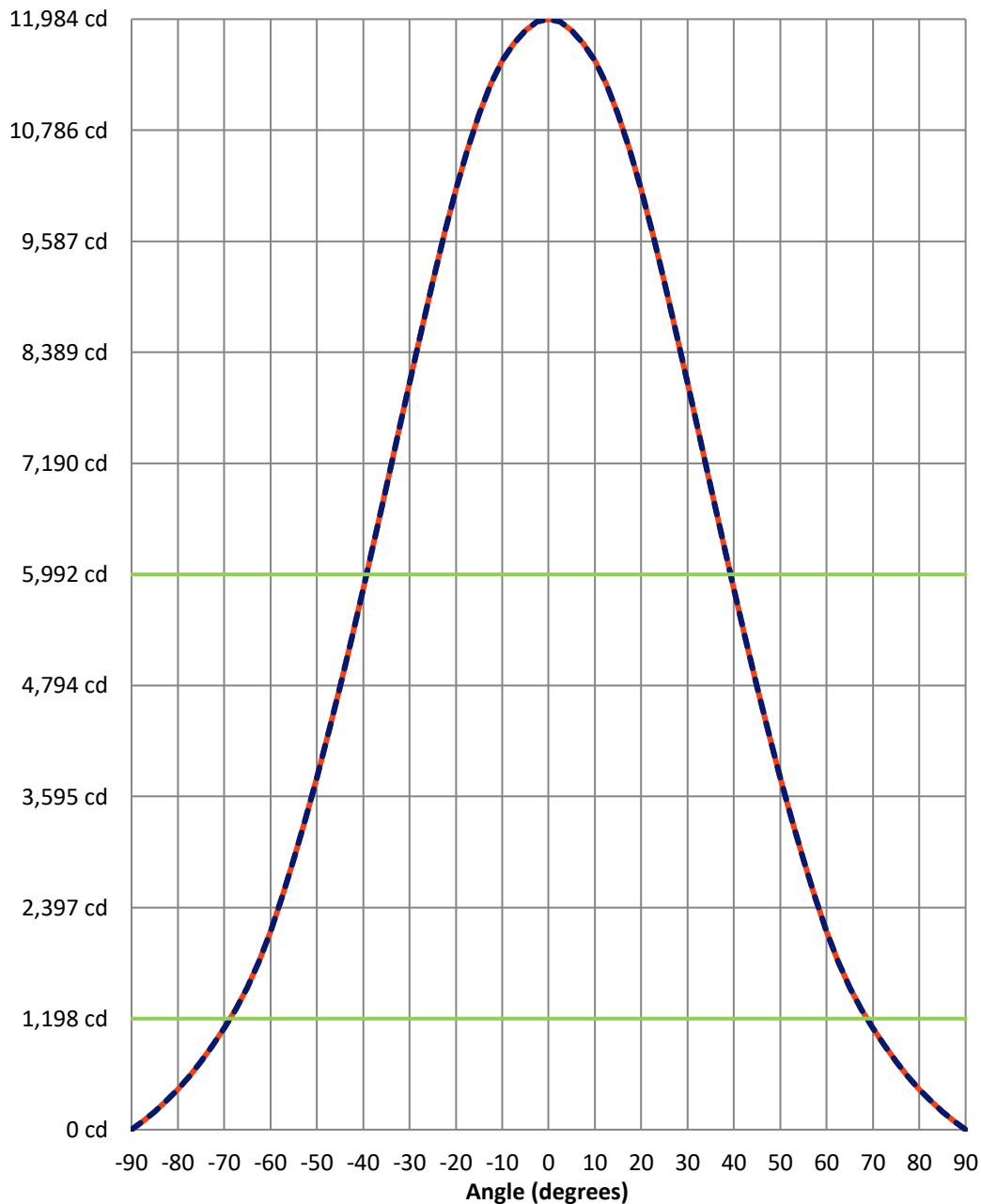


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 9336.3
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 15287.8
Efficiency: 70.9%

Spill:

Lumens: 6289.4
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°	92.2	92.2	92.2	92.2	92.2	92.2	92.2	87.7	87.7	85.5	83.2
85°	193.5	193.5	193.5	193.5	193.5	189.0	186.7	184.5	182.2	177.7	175.5
82.5°	310.5	310.5	310.5	310.5	306.0	301.5	299.2	294.7	290.2	283.5	276.7
80°	434.2	434.2	434.2	434.2	427.4	422.9	416.2	411.7	404.9	395.9	386.9
77.5°	575.9	575.9	575.9	569.2	564.7	557.9	551.2	542.2	533.2	521.9	508.4
75°	735.6	735.6	735.6	726.6	719.9	713.1	701.9	690.6	677.1	661.4	643.4
72.5°	908.9	908.9	908.9	897.6	890.9	879.6	866.1	850.4	834.6	814.4	791.9
70°	1095.6	1095.6	1095.6	1082.1	1070.8	1059.6	1041.6	1023.6	1001.1	978.6	951.6
67.5°	1298.0	1298.0	1298.0	1282.3	1268.8	1253.1	1232.8	1210.3	1183.3	1151.8	1120.3
65°	1534.3	1534.3	1525.3	1511.8	1496.0	1473.5	1448.8	1417.3	1383.5	1343.0	1300.3
62.5°	1813.2	1813.2	1799.7	1784.0	1763.7	1734.5	1700.7	1660.2	1613.0	1561.3	1509.5
60°	2137.2	2137.2	2121.4	2101.2	2071.9	2035.9	1990.9	1939.2	1880.7	1815.5	1752.5
57.5°	2510.6	2510.6	2490.4	2463.4	2427.4	2382.4	2326.1	2260.9	2186.7	2105.7	2026.9
55°	2915.5	2915.5	2890.8	2859.3	2816.6	2762.6	2695.1	2618.6	2528.6	2436.4	2335.1
52.5°	3345.2	3345.2	3316.0	3280.0	3230.5	3167.5	3091.0	3001.0	2897.6	2789.6	2670.3
50°	3797.4	3797.4	3763.7	3723.2	3666.9	3592.7	3505.0	3401.5	3286.7	3160.8	3023.5
47.5°	4281.1	4281.1	4242.8	4195.6	4128.1	4042.6	3939.1	3819.9	3689.4	3547.7	3392.5
45°	4778.3	4778.3	4735.5	4681.5	4607.3	4510.6	4395.8	4281.1	4114.6	3950.4	3770.4
42.5°	5295.7	5295.7	5246.2	5185.4	5100.0	4994.2	4863.7	4715.3	4551.0	4366.6	4170.9
40°	5833.3	5833.3	5777.1	5707.4	5612.9	5491.4	5345.2	5178.7	4994.2	4789.5	4573.5
37.5°	6382.3	6382.3	6319.3	6242.8	6137.1	6002.1	5837.8	5653.4	5446.4	5219.2	4980.7
35°	6935.7	6935.7	6865.9	6782.7	6665.7	6517.2	6339.5	6134.8	5905.3	5657.9	5390.2
32.5°	7500.3	7500.3	7423.9	7329.4	7196.6	7032.4	6836.7	6614.0	6382.3	6094.3	5801.9
30°	8058.3	8058.3	7975.0	7871.5	7729.8	7549.8	7336.1	7090.9	6818.7	6524.0	6209.0
27.5°	8607.2	8584.7	8514.9	8404.7	8249.5	8058.3	7826.5	7561.1	7266.4	6942.4	6605.0
25°	9147.1	9122.3	9045.9	8924.4	8757.9	8548.7	8299.0	8015.5	7698.3	7356.4	6987.4
22.5°	9664.5	9637.5	9556.5	9426.0	9248.3	9021.1	8753.4	8449.7	8112.2	7745.6	7356.4
20°	10143.7	10114.4	10031.2	9894.0	9709.5	9468.8	9185.3	8859.1	8499.2	8112.2	7698.3
17.5°	10575.6	10546.4	10458.6	10316.9	10143.7	9876.0	9583.5	9239.3	8859.1	8449.7	8015.5
15°	10955.8	10924.3	10834.3	10692.6	10494.6	10242.7	9934.5	9583.5	9185.3	8753.4	8299.0
12.5°	11279.8	11248.3	11156.0	11014.3	10809.6	10557.6	10242.7	9876.0	9468.8	9021.1	8548.7
10°	11536.2	11504.7	11417.0	11282.0	11070.5	10809.6	10494.6	10143.7	9709.5	9248.3	8757.9
7.5°	11720.7	11691.4	11610.5	11475.5	11282.0	11014.3	10692.6	10316.9	9894.0	9426.0	8924.4
5°	11860.2	11826.4	11745.4	11610.5	11417.0	11156.0	10834.3	10458.6	10031.2	9556.5	9045.9
2.5°	11956.9	11916.4	11826.4	11691.4	11504.7	11248.3	10924.3	10546.4	10114.4	9637.5	9122.3
0°	11983.9	11956.9	11860.2	11720.7	11536.2	11279.8	10955.8	10575.6	10143.7	9664.5	9147.1

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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°	81.0	81.0	78.7	76.5	74.2	69.7	67.5	65.2	63.0	58.5	56.2
85°	171.0	166.5	162.0	157.5	150.7	146.2	139.5	135.0	128.2	121.5	114.7
82.5°	270.0	263.2	254.2	247.5	238.5	227.2	218.2	207.0	195.7	186.7	175.5
80°	377.9	366.7	355.4	344.2	330.7	317.2	303.7	290.2	274.5	258.7	243.0
77.5°	494.9	479.2	463.4	445.4	429.7	411.7	393.7	375.7	355.4	335.2	315.0
75°	625.4	605.2	582.7	560.2	539.9	515.2	490.4	465.7	438.7	413.9	386.9
72.5°	767.1	742.4	715.4	688.4	659.1	627.7	596.2	562.4	530.9	499.4	465.7
70°	920.1	890.9	857.1	823.4	787.4	749.1	710.9	670.4	629.9	589.4	548.9
67.5°	1084.3	1048.3	1007.8	967.4	922.4	877.4	832.4	785.1	735.6	686.1	638.9
65°	1259.8	1214.8	1167.6	1115.8	1064.1	1012.3	958.4	902.1	845.9	787.4	735.6
62.5°	1455.5	1399.3	1338.5	1275.6	1217.1	1154.1	1095.6	1025.8	958.4	893.1	827.9
60°	1682.7	1608.5	1534.3	1455.5	1381.3	1300.3	1228.3	1151.8	1075.3	1001.1	924.6
57.5°	1937.0	1842.5	1752.5	1658.0	1559.0	1469.0	1376.8	1284.6	1199.1	1111.3	1028.1
55°	2224.9	2110.2	1997.7	1880.7	1766.0	1653.5	1536.5	1433.0	1327.3	1228.3	1131.6
52.5°	2539.9	2409.4	2269.9	2137.2	1990.9	1851.5	1721.0	1590.5	1466.8	1347.5	1237.3
50°	2877.3	2724.3	2564.6	2402.6	2236.2	2071.9	1914.5	1761.5	1617.5	1478.0	1347.5
47.5°	3228.3	3055.0	2872.8	2688.3	2510.6	2310.4	2121.4	1948.2	1775.0	1617.5	1466.8
45°	3588.2	3392.5	3192.3	2983.0	2773.8	2557.9	2348.6	2137.2	1948.2	1761.5	1590.5
42.5°	3959.4	3738.9	3516.2	3284.5	3052.8	2816.6	2580.4	2348.6	2121.4	1914.5	1721.0
40°	4341.8	4098.9	3844.7	3592.7	3345.2	3075.3	2816.6	2557.9	2310.4	2071.9	1851.5
37.5°	4724.3	4458.8	4184.4	3900.9	3617.4	3345.2	3052.8	2773.8	2510.6	2236.2	1990.9
35°	5109.0	4816.5	4519.6	4211.3	3900.9	3592.7	3284.5	2983.0	2688.3	2402.6	2137.2
32.5°	5495.9	5176.4	4848.0	4519.6	4184.4	3844.7	3516.2	3192.3	2872.8	2564.6	2269.9
30°	5876.1	5529.6	5176.4	4816.5	4458.8	4098.9	3738.9	3392.5	3055.0	2724.3	2409.4
27.5°	6247.3	5876.1	5495.9	5109.0	4724.3	4341.8	3959.4	3588.2	3228.3	2877.3	2539.9
25°	6605.0	6209.0	5801.9	5390.2	4980.7	4573.5	4170.9	3770.4	3392.5	3023.5	2670.3
22.5°	6942.4	6524.0	6094.3	5657.9	5219.2	4789.5	4366.6	3950.4	3547.7	3160.8	2789.6
20°	7266.4	6818.7	6382.3	5905.3	5446.4	4994.2	4551.0	4114.6	3689.4	3286.7	2897.6
17.5°	7561.1	7090.9	6614.0	6134.8	5653.4	5178.7	4715.3	4281.1	3819.9	3401.5	3001.0
15°	7826.5	7336.1	6836.7	6339.5	5837.8	5345.2	4863.7	4395.8	3939.1	3505.0	3091.0
12.5°	8058.3	7549.8	7032.4	6517.2	6002.1	5491.4	4994.2	4510.6	4042.6	3592.7	3167.5
10°	8249.5	7729.8	7196.6	6665.7	6137.1	5612.9	5100.0	4607.3	4128.1	3666.9	3230.5
7.5°	8404.7	7871.5	7329.4	6782.7	6242.8	5707.4	5185.4	4681.5	4195.6	3723.2	3280.0
5°	8514.9	7975.0	7423.9	6865.9	6319.3	5777.1	5246.2	4735.5	4242.8	3763.7	3316.0
2.5°	8584.7	8058.3	7500.3	6935.7	6382.3	5833.3	5295.7	4778.3	4281.1	3797.4	3345.2
0°	8607.2	8058.3	7500.3	6935.7	6382.3	5833.3	5295.7	4778.3	4281.1	3797.4	3345.2

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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°	54.0	49.5	45.0	42.7	38.2	36.0	31.5	27.0	24.7	20.2	15.7
85°	108.0	99.0	92.2	85.5	78.7	69.7	63.0	56.2	47.2	40.5	31.5
82.5°	164.2	153.0	141.7	130.5	119.2	108.0	94.5	83.2	72.0	60.7	47.2
80°	227.2	209.2	193.5	177.7	162.0	146.2	128.2	112.5	94.5	78.7	63.0
77.5°	292.5	272.2	249.7	227.2	204.7	184.5	162.0	141.7	121.5	99.0	78.7
75°	362.2	335.2	310.5	281.2	254.2	225.0	198.0	171.0	146.2	121.5	94.5
72.5°	434.2	400.4	366.7	335.2	301.5	267.7	236.2	202.5	171.0	141.7	112.5
70°	508.4	467.9	427.4	389.2	350.9	310.5	274.5	236.2	198.0	162.0	128.2
67.5°	587.2	539.9	492.7	443.2	400.4	355.4	310.5	267.7	225.0	184.5	146.2
65°	672.6	616.4	557.9	506.2	449.9	400.4	350.9	301.5	254.2	204.7	162.0
62.5°	760.4	695.1	629.9	564.7	506.2	443.2	389.2	335.2	281.2	227.2	177.7
60°	850.4	776.1	701.9	629.9	557.9	492.7	427.4	366.7	310.5	249.7	193.5
57.5°	942.6	859.4	776.1	695.1	616.4	539.9	467.9	400.4	335.2	272.2	209.2
55°	1037.1	942.6	850.4	760.4	672.6	587.2	508.4	434.2	362.2	292.5	227.2
52.5°	1131.6	1028.1	924.6	827.9	735.6	638.9	548.9	465.7	386.9	315.0	243.0
50°	1228.3	1111.3	1001.1	893.1	787.4	686.1	589.4	499.4	413.9	335.2	258.7
47.5°	1327.3	1199.1	1075.3	958.4	845.9	735.6	629.9	530.9	438.7	355.4	274.5
45°	1433.0	1284.6	1151.8	1025.8	902.1	785.1	670.4	562.4	465.7	375.7	290.2
42.5°	1536.5	1376.8	1228.3	1095.6	958.4	832.4	710.9	596.2	490.4	393.7	303.7
40°	1653.5	1469.0	1300.3	1154.1	1012.3	877.4	749.1	627.7	515.2	411.7	317.2
37.5°	1766.0	1559.0	1381.3	1217.1	1064.1	922.4	787.4	659.1	539.9	429.7	330.7
35°	1880.7	1658.0	1455.5	1275.6	1115.8	967.4	823.4	688.4	560.2	445.4	344.2
32.5°	1997.7	1752.5	1534.3	1338.5	1167.6	1007.8	857.1	715.4	582.7	463.4	355.4
30°	2110.2	1842.5	1608.5	1399.3	1214.8	1048.3	890.9	742.4	605.2	479.2	366.7
27.5°	2224.9	1937.0	1682.7	1455.5	1259.8	1084.3	920.1	767.1	625.4	494.9	377.9
25°	2335.1	2026.9	1752.5	1509.5	1300.3	1120.3	951.6	791.9	643.4	508.4	386.9
22.5°	2436.4	2105.7	1815.5	1561.3	1343.0	1151.8	978.6	814.4	661.4	521.9	395.9
20°	2528.6	2186.7	1880.7	1613.0	1383.5	1183.3	1001.1	834.6	677.1	533.2	404.9
17.5°	2618.6	2260.9	1939.2	1660.2	1417.3	1210.3	1023.6	850.4	690.6	542.2	411.7
15°	2695.1	2326.1	1990.9	1700.7	1448.8	1232.8	1041.6	866.1	701.9	551.2	416.2
12.5°	2762.6	2382.4	2035.9	1734.5	1473.5	1253.1	1059.6	879.6	713.1	557.9	422.9
10°	2816.6	2427.4	2071.9	1763.7	1496.0	1268.8	1070.8	890.9	719.9	564.7	427.4
7.5°	2859.3	2463.4	2101.2	1784.0	1511.8	1282.3	1082.1	897.6	726.6	569.2	434.2
5°	2890.8	2490.4	2121.4	1799.7	1525.3	1298.0	1095.6	908.9	735.6	575.9	434.2
2.5°	2915.5	2510.6	2137.2	1813.2	1534.3	1298.0	1095.6	908.9	735.6	575.9	434.2
0°	2915.5	2510.6	2137.2	1813.2	1534.3	1298.0	1095.6	908.9	735.6	575.9	434.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.2	9.0	4.5	0.0
85°	24.7	15.7	9.0	0.0
82.5°	36.0	24.7	11.2	0.0
80°	47.2	31.5	15.7	0.0
77.5°	60.7	40.5	20.2	0.0
75°	72.0	47.2	24.7	0.0
72.5°	83.2	56.2	27.0	0.0
70°	94.5	63.0	31.5	0.0
67.5°	108.0	69.7	36.0	0.0
65°	119.2	78.7	38.2	0.0
62.5°	130.5	85.5	42.7	0.0
60°	141.7	92.2	45.0	0.0
57.5°	153.0	99.0	49.5	0.0
55°	164.2	108.0	54.0	0.0
52.5°	175.5	114.7	56.2	0.0
50°	186.7	121.5	58.5	0.0
47.5°	195.7	128.2	63.0	0.0
45°	207.0	135.0	65.2	0.0
42.5°	218.2	139.5	67.5	0.0
40°	227.2	146.2	69.7	0.0
37.5°	238.5	150.7	74.2	0.0
35°	247.5	157.5	76.5	0.0
32.5°	254.2	162.0	78.7	0.0
30°	263.2	166.5	81.0	0.0
27.5°	270.0	171.0	81.0	0.0
25°	276.7	175.5	83.2	0.0
22.5°	283.5	177.7	85.5	0.0
20°	290.2	182.2	87.7	0.0
17.5°	294.7	184.5	87.7	0.0
15°	299.2	186.7	92.2	0.0
12.5°	301.5	189.0	92.2	0.0
10°	306.0	193.5	92.2	0.0
7.5°	310.5	193.5	92.2	0.0
5°	310.5	193.5	92.2	0.0
2.5°	310.5	193.5	92.2	0.0
0°	310.5	193.5	92.2	0.0

(END OF REPORT)