

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: P623976

Luminaire Tested: **IFLD-L-SA7A-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623976
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33240.1 lumens	Max Intensity:	18461.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	152.8 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:	14382.6 lumens	Field Lumens:	23551.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

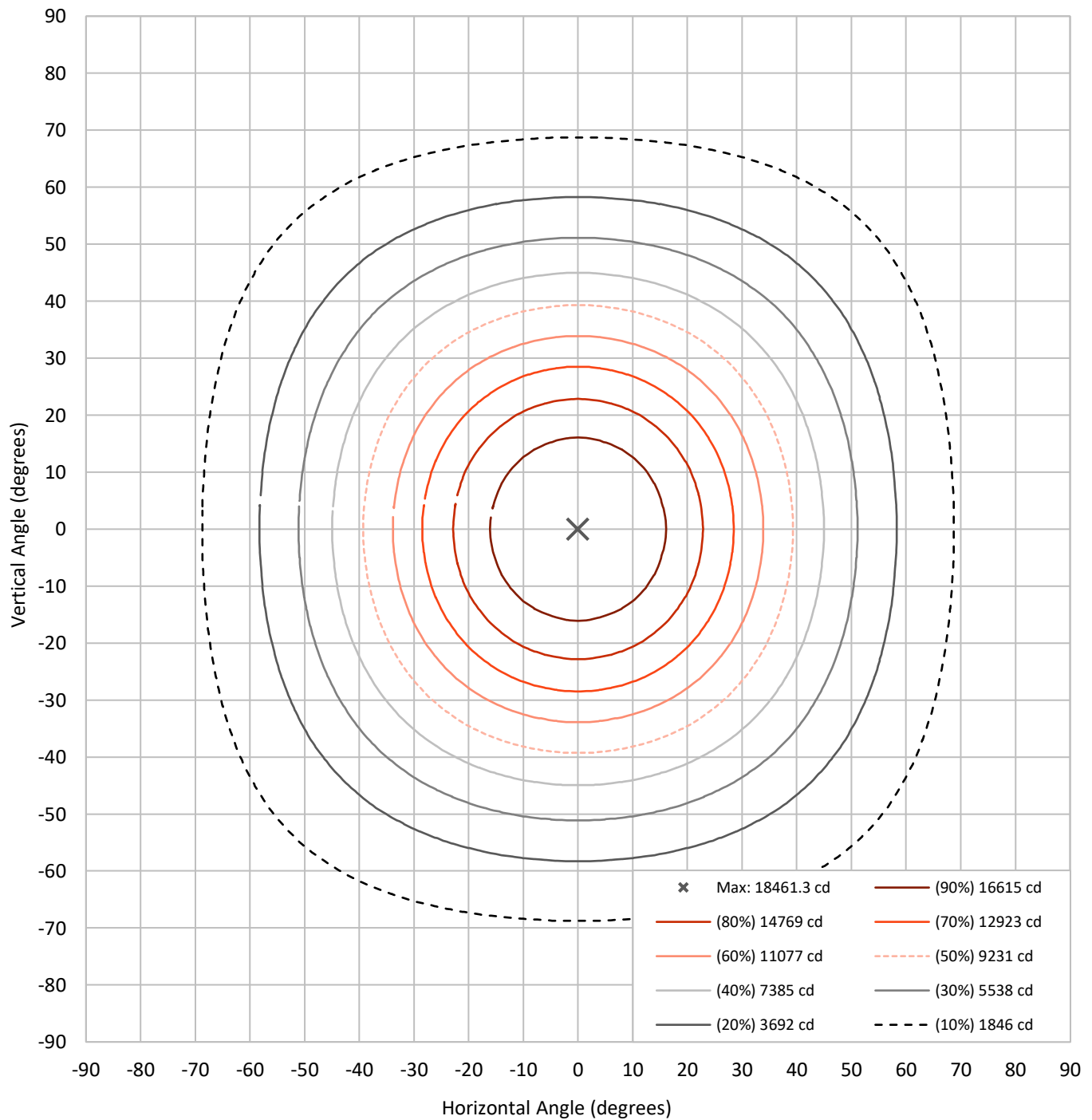
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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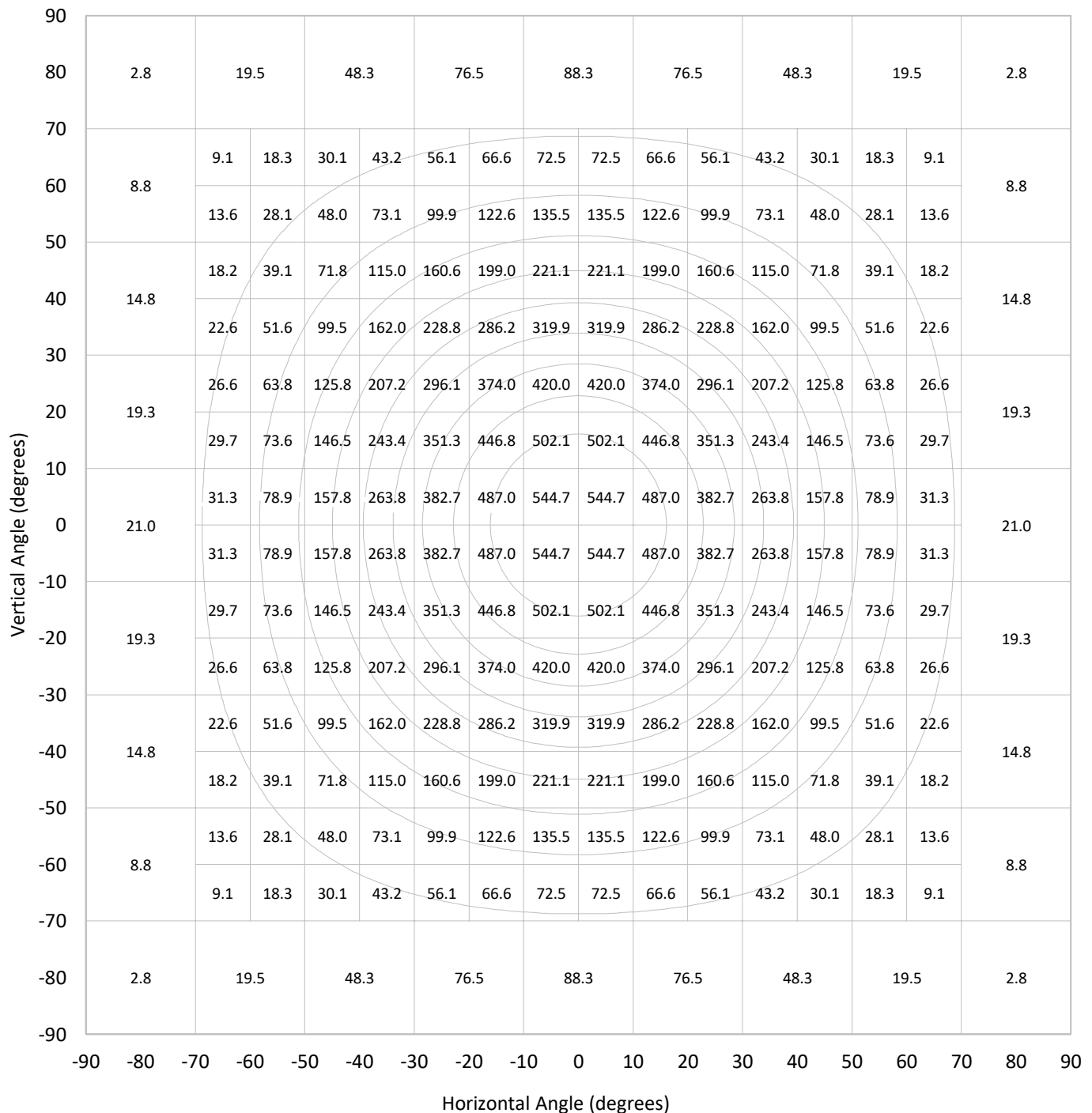
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Iso-Candela Plot



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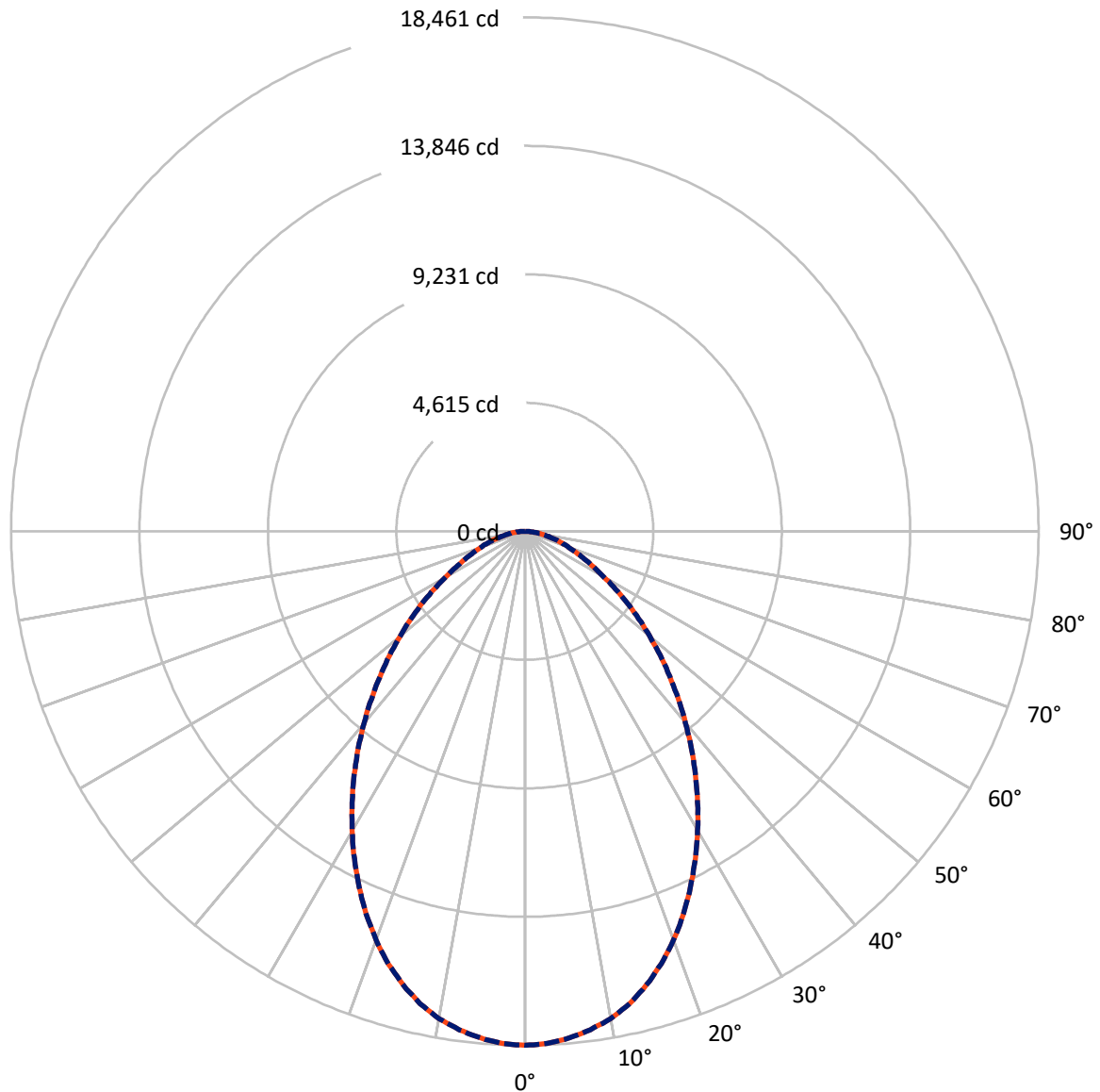
Lumen Table



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Luminous Intensity Polar Plot



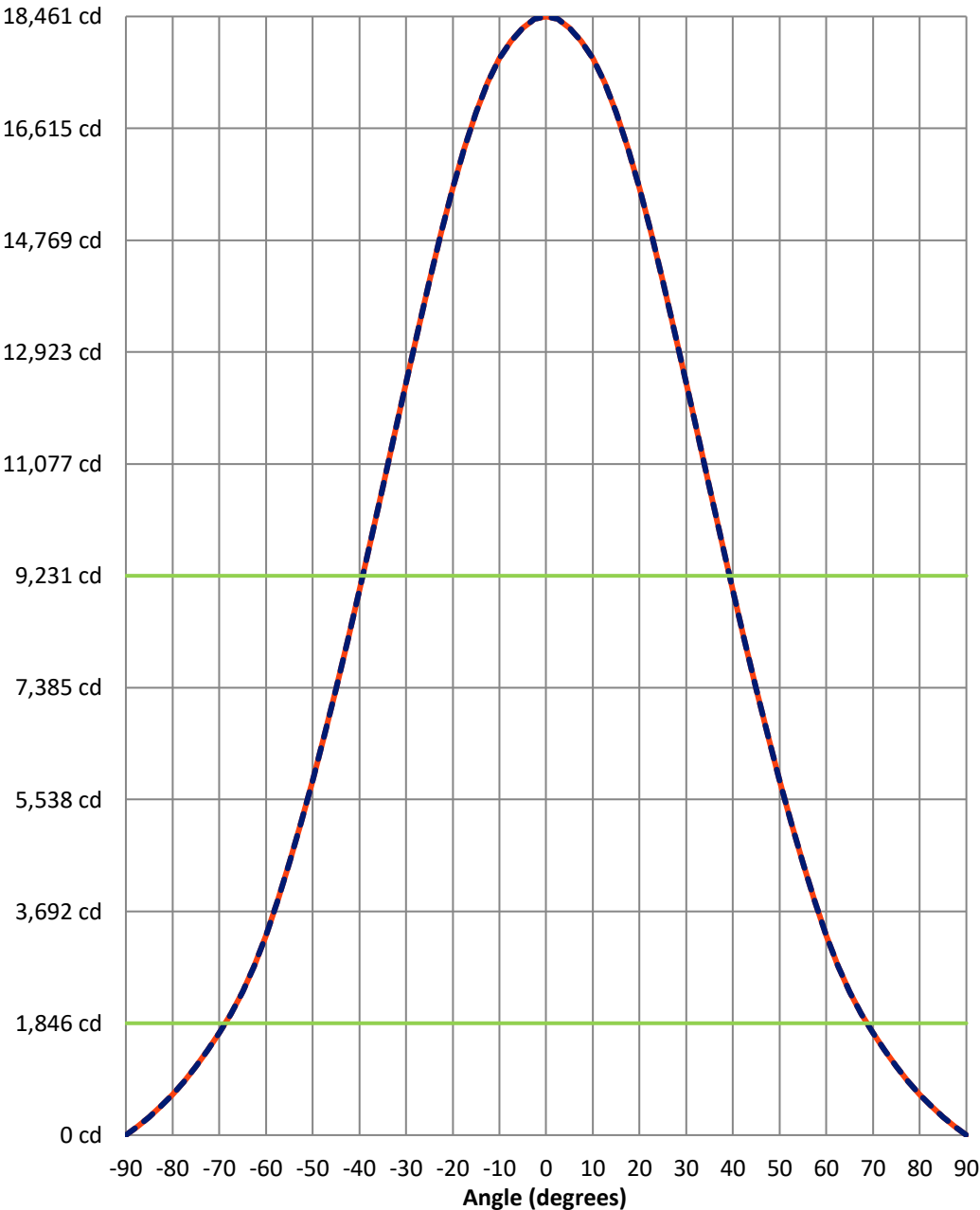
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 14382.6
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 23551.1
Efficiency: 70.9%

Spill:
Lumens: 9689
Efficiency: 29.1%

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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°	142.1	142.1	142.1	142.1	142.1	142.1	142.1	135.2	135.2	131.7	128.2
85°	298.0	298.0	298.0	298.0	298.0	291.1	287.6	284.2	280.7	273.8	270.3
82.5°	478.3	478.3	478.3	478.3	471.3	464.4	460.9	454.0	447.1	436.7	426.3
80°	668.9	668.9	668.9	668.9	658.5	651.5	641.1	634.2	623.8	609.9	596.1
77.5°	887.2	887.2	887.2	876.8	869.9	859.5	849.1	835.2	821.4	804.0	783.2
75°	1133.3	1133.3	1133.3	1119.4	1109.0	1098.6	1081.3	1063.9	1043.2	1018.9	991.2
72.5°	1400.1	1400.1	1400.1	1382.8	1372.4	1355.1	1334.3	1310.0	1285.7	1254.6	1219.9
70°	1687.8	1687.8	1687.8	1667.0	1649.6	1632.3	1604.6	1576.9	1542.2	1507.5	1466.0
67.5°	1999.7	1999.7	1999.7	1975.4	1954.6	1930.3	1899.2	1864.5	1822.9	1774.4	1725.9
65°	2363.6	2363.6	2349.7	2328.9	2304.6	2270.0	2231.9	2183.3	2131.4	2069.0	2003.1
62.5°	2793.3	2793.3	2772.5	2748.2	2717.0	2672.0	2620.0	2557.6	2484.8	2405.1	2325.4
60°	3292.3	3292.3	3268.1	3236.9	3191.8	3136.4	3067.1	2987.4	2897.3	2796.8	2699.7
57.5°	3867.6	3867.6	3836.4	3794.8	3739.4	3670.1	3583.4	3482.9	3368.6	3243.8	3122.5
55°	4491.4	4491.4	4453.3	4404.8	4339.0	4255.8	4151.8	4034.0	3895.4	3753.3	3597.3
52.5°	5153.4	5153.4	5108.3	5052.9	4976.6	4879.6	4761.8	4623.1	4463.7	4297.4	4113.7
50°	5850.0	5850.0	5798.0	5735.6	5649.0	5534.6	5399.4	5240.0	5063.3	4869.2	4657.8
47.5°	6595.1	6595.1	6536.2	6463.4	6359.4	6227.7	6068.3	5884.6	5683.6	5465.3	5226.1
45°	7361.0	7361.0	7295.1	7211.9	7097.6	6948.6	6771.8	6595.1	6338.6	6085.6	5808.4
42.5°	8158.1	8158.1	8081.8	7988.2	7856.6	7693.7	7492.7	7263.9	7010.9	6726.8	6425.3
40°	8986.3	8986.3	8899.7	8792.3	8646.7	8459.6	8234.3	7977.8	7693.7	7378.3	7045.6
37.5°	9832.0	9832.0	9734.9	9617.1	9454.2	9246.3	8993.3	8709.1	8390.3	8040.2	7672.9
35°	10684.5	10684.5	10577.1	10448.8	10268.6	10039.9	9766.1	9450.7	9097.2	8716.0	8303.6
32.5°	11554.4	11554.4	11436.5	11291.0	11086.5	10833.5	10532.0	10188.9	9832.0	9388.4	8937.8
30°	12413.8	12413.8	12285.6	12126.2	11907.9	11630.6	11301.4	10923.6	10504.3	10050.3	9565.1
27.5°	13259.4	13224.8	13117.4	12947.5	12708.4	12413.8	12056.9	11647.9	11193.9	10694.9	10175.0
25°	14091.2	14053.1	13935.2	13748.1	13491.6	13169.3	12784.7	12348.0	11859.3	11332.6	10764.2
22.5°	14888.3	14846.7	14721.9	14520.9	14247.1	13897.1	13484.7	13016.9	12497.0	11932.1	11332.6
20°	15626.5	15581.4	15453.2	15241.8	14957.6	14586.8	14150.1	13647.6	13093.1	12497.0	11859.3
17.5°	16291.9	16246.8	16111.6	15893.3	15626.5	15214.1	14763.5	14233.3	13647.6	13016.9	12348.0
15°	16877.5	16829.0	16690.4	16472.1	16167.1	15778.9	15304.2	14763.5	14150.1	13484.7	12784.7
12.5°	17376.6	17328.1	17186.0	16967.7	16652.3	16264.1	15778.9	15214.1	14586.8	13897.1	13169.3
10°	17771.7	17723.2	17588.0	17380.1	17054.3	16652.3	16167.1	15626.5	14957.6	14247.1	13491.6
7.5°	18055.9	18010.8	17886.0	17678.1	17380.1	16967.7	16472.1	15893.3	15241.8	14520.9	13748.1
5°	18270.7	18218.7	18094.0	17886.0	17588.0	17186.0	16690.4	16111.6	15453.2	14721.9	13935.2
2.5°	18419.7	18357.4	18218.7	18010.8	17723.2	17328.1	16829.0	16246.8	15581.4	14846.7	14053.1
0°	18461.3	18419.7	18270.7	18055.9	17771.7	17376.6	16877.5	16291.9	15626.5	14888.3	14091.2

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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°	124.8	124.8	121.3	117.8	114.4	107.4	104.0	100.5	97.0	90.1	86.6
85°	263.4	256.5	249.5	242.6	232.2	225.3	214.9	207.9	197.5	187.1	176.7
82.5°	415.9	405.5	391.6	381.2	367.4	350.0	336.2	318.8	301.5	287.6	270.3
80°	582.2	564.9	547.6	530.2	509.4	488.7	467.9	447.1	422.8	398.5	374.3
77.5°	762.4	738.2	713.9	686.2	661.9	634.2	606.5	578.8	547.6	516.4	485.2
75°	963.4	932.3	897.6	862.9	831.7	793.6	755.5	717.4	675.8	637.7	596.1
72.5°	1181.8	1143.7	1102.1	1060.5	1015.4	966.9	918.4	866.4	817.9	769.4	717.4
70°	1417.4	1372.4	1320.4	1268.4	1213.0	1154.1	1095.1	1032.8	970.4	908.0	845.6
67.5°	1670.4	1615.0	1552.6	1490.2	1420.9	1351.6	1282.3	1209.5	1133.3	1057.0	984.2
65°	1940.7	1871.4	1798.7	1718.9	1639.2	1559.5	1476.4	1389.7	1303.1	1213.0	1133.3
62.5°	2242.3	2155.6	2062.0	1965.0	1874.9	1777.9	1687.8	1580.3	1476.4	1375.8	1275.3
60°	2592.3	2477.9	2363.6	2242.3	2127.9	2003.1	1892.2	1774.4	1656.6	1542.2	1424.4
57.5°	2983.9	2838.3	2699.7	2554.2	2401.7	2263.0	2121.0	1978.9	1847.2	1712.0	1583.8
55°	3427.5	3250.7	3077.5	2897.3	2720.5	2547.2	2367.0	2207.6	2044.7	1892.2	1743.2
52.5°	3912.7	3711.7	3496.8	3292.3	3067.1	2852.2	2651.2	2450.2	2259.6	2075.9	1906.1
50°	4432.5	4196.9	3950.8	3701.3	3444.8	3191.8	2949.2	2713.6	2491.8	2276.9	2075.9
47.5°	4973.2	4706.3	4425.6	4141.4	3867.6	3559.2	3268.1	3001.2	2734.4	2491.8	2259.6
45°	5527.7	5226.1	4917.7	4595.4	4273.1	3940.4	3618.1	3292.3	3001.2	2713.6	2450.2
42.5°	6099.5	5759.9	5416.8	5059.8	4702.8	4339.0	3975.1	3618.1	3268.1	2949.2	2651.2
40°	6688.6	6314.4	5922.7	5534.6	5153.4	4737.5	4339.0	3940.4	3559.2	3191.8	2852.2
37.5°	7277.8	6868.9	6446.0	6009.4	5572.7	5153.4	4702.8	4273.1	3867.6	3444.8	3067.1
35°	7870.4	7419.9	6962.4	6487.6	6009.4	5534.6	5059.8	4595.4	4141.4	3701.3	3292.3
32.5°	8466.5	7974.4	7468.4	6962.4	6446.0	5922.7	5416.8	4917.7	4425.6	3950.8	3496.8
30°	9052.2	8518.5	7974.4	7419.9	6868.9	6314.4	5759.9	5226.1	4706.3	4196.9	3711.7
27.5°	9624.0	9052.2	8466.5	7870.4	7277.8	6688.6	6099.5	5527.7	4973.2	4432.5	3912.7
25°	10175.0	9565.1	8937.8	8303.6	7672.9	7045.6	6425.3	5808.4	5226.1	4657.8	4113.7
22.5°	10694.9	10050.3	9388.4	8716.0	8040.2	7378.3	6726.8	6085.6	5465.3	4869.2	4297.4
20°	11193.9	10504.3	9832.0	9097.2	8390.3	7693.7	7010.9	6338.6	5683.6	5063.3	4463.7
17.5°	11647.9	10923.6	10188.9	9450.7	8709.1	7977.8	7263.9	6595.1	5884.6	5240.0	4623.1
15°	12056.9	11301.4	10532.0	9766.1	8993.3	8234.3	7492.7	6771.8	6068.3	5399.4	4761.8
12.5°	12413.8	11630.6	10833.5	10039.9	9246.3	8459.6	7693.7	6948.6	6227.7	5534.6	4879.6
10°	12708.4	11907.9	11086.5	10268.6	9454.2	8646.7	7856.6	7097.6	6359.4	5649.0	4976.6
7.5°	12947.5	12126.2	11291.0	10448.8	9617.1	8792.3	7988.2	7211.9	6463.4	5735.6	5052.9
5°	13117.4	12285.6	11436.5	10577.1	9734.9	8899.7	8081.8	7295.1	6536.2	5798.0	5108.3
2.5°	13224.8	12413.8	11554.4	10684.5	9832.0	8986.3	8158.1	7361.0	6595.1	5850.0	5153.4
0°	13259.4	12413.8	11554.4	10684.5	9832.0	8986.3	8158.1	7361.0	6595.1	5850.0	5153.4

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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°	83.2	76.2	69.3	65.8	58.9	55.4	48.5	41.6	38.1	31.2	24.3
85°	166.3	152.5	142.1	131.7	121.3	107.4	97.0	86.6	72.8	62.4	48.5
82.5°	253.0	235.7	218.3	201.0	183.7	166.3	145.6	128.2	110.9	93.6	72.8
80°	350.0	322.3	298.0	273.8	249.5	225.3	197.5	173.3	145.6	121.3	97.0
77.5°	450.5	419.3	384.7	350.0	315.4	284.2	249.5	218.3	187.1	152.5	121.3
75°	558.0	516.4	478.3	433.2	391.6	346.6	305.0	263.4	225.3	187.1	145.6
72.5°	668.9	616.9	564.9	516.4	464.4	412.4	363.9	311.9	263.4	218.3	173.3
70°	783.2	720.8	658.5	599.6	540.6	478.3	422.8	363.9	305.0	249.5	197.5
67.5°	904.5	831.7	759.0	682.7	616.9	547.6	478.3	412.4	346.6	284.2	225.3
65°	1036.2	949.6	859.5	779.8	693.1	616.9	540.6	464.4	391.6	315.4	249.5
62.5°	1171.4	1070.9	970.4	869.9	779.8	682.7	599.6	516.4	433.2	350.0	273.8
60°	1310.0	1195.6	1081.3	970.4	859.5	759.0	658.5	564.9	478.3	384.7	298.0
57.5°	1452.1	1323.9	1195.6	1070.9	949.6	831.7	720.8	616.9	516.4	419.3	322.3
55°	1597.6	1452.1	1310.0	1171.4	1036.2	904.5	783.2	668.9	558.0	450.5	350.0
52.5°	1743.2	1583.8	1424.4	1275.3	1133.3	984.2	845.6	717.4	596.1	485.2	374.3
50°	1892.2	1712.0	1542.2	1375.8	1213.0	1057.0	908.0	769.4	637.7	516.4	398.5
47.5°	2044.7	1847.2	1656.6	1476.4	1303.1	1133.3	970.4	817.9	675.8	547.6	422.8
45°	2207.6	1978.9	1774.4	1580.3	1389.7	1209.5	1032.8	866.4	717.4	578.8	447.1
42.5°	2367.0	2121.0	1892.2	1687.8	1476.4	1282.3	1095.1	918.4	755.5	606.5	467.9
40°	2547.2	2263.0	2003.1	1777.9	1559.5	1351.6	1154.1	966.9	793.6	634.2	488.7
37.5°	2720.5	2401.7	2127.9	1874.9	1639.2	1420.9	1213.0	1015.4	831.7	661.9	509.4
35°	2897.3	2554.2	2242.3	1965.0	1718.9	1490.2	1268.4	1060.5	862.9	686.2	530.2
32.5°	3077.5	2699.7	2363.6	2062.0	1798.7	1552.6	1320.4	1102.1	897.6	713.9	547.6
30°	3250.7	2838.3	2477.9	2155.6	1871.4	1615.0	1372.4	1143.7	932.3	738.2	564.9
27.5°	3427.5	2983.9	2592.3	2242.3	1940.7	1670.4	1417.4	1181.8	963.4	762.4	582.2
25°	3597.3	3122.5	2699.7	2325.4	2003.1	1725.9	1466.0	1219.9	991.2	783.2	596.1
22.5°	3753.3	3243.8	2796.8	2405.1	2069.0	1774.4	1507.5	1254.6	1018.9	804.0	609.9
20°	3895.4	3368.6	2897.3	2484.8	2131.4	1822.9	1542.2	1285.7	1043.2	821.4	623.8
17.5°	4034.0	3482.9	2987.4	2557.6	2183.3	1864.5	1576.9	1310.0	1063.9	835.2	634.2
15°	4151.8	3583.4	3067.1	2620.0	2231.9	1899.2	1604.6	1334.3	1081.3	849.1	641.1
12.5°	4255.8	3670.1	3136.4	2672.0	2270.0	1930.3	1632.3	1355.1	1098.6	859.5	651.5
10°	4339.0	3739.4	3191.8	2717.0	2304.6	1954.6	1649.6	1372.4	1109.0	869.9	658.5
7.5°	4404.8	3794.8	3236.9	2748.2	2328.9	1975.4	1667.0	1382.8	1119.4	876.8	668.9
5°	4453.3	3836.4	3268.1	2772.5	2349.7	1999.7	1687.8	1400.1	1133.3	887.2	668.9
2.5°	4491.4	3867.6	3292.3	2793.3	2363.6	1999.7	1687.8	1400.1	1133.3	887.2	668.9
0°	4491.4	3867.6	3292.3	2793.3	2363.6	1999.7	1687.8	1400.1	1133.3	887.2	668.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.3	13.9	6.9	0.0
85°	38.1	24.3	13.9	0.0
82.5°	55.4	38.1	17.3	0.0
80°	72.8	48.5	24.3	0.0
77.5°	93.6	62.4	31.2	0.0
75°	110.9	72.8	38.1	0.0
72.5°	128.2	86.6	41.6	0.0
70°	145.6	97.0	48.5	0.0
67.5°	166.3	107.4	55.4	0.0
65°	183.7	121.3	58.9	0.0
62.5°	201.0	131.7	65.8	0.0
60°	218.3	142.1	69.3	0.0
57.5°	235.7	152.5	76.2	0.0
55°	253.0	166.3	83.2	0.0
52.5°	270.3	176.7	86.6	0.0
50°	287.6	187.1	90.1	0.0
47.5°	301.5	197.5	97.0	0.0
45°	318.8	207.9	100.5	0.0
42.5°	336.2	214.9	104.0	0.0
40°	350.0	225.3	107.4	0.0
37.5°	367.4	232.2	114.4	0.0
35°	381.2	242.6	117.8	0.0
32.5°	391.6	249.5	121.3	0.0
30°	405.5	256.5	124.8	0.0
27.5°	415.9	263.4	124.8	0.0
25°	426.3	270.3	128.2	0.0
22.5°	436.7	273.8	131.7	0.0
20°	447.1	280.7	135.2	0.0
17.5°	454.0	284.2	135.2	0.0
15°	460.9	287.6	142.1	0.0
12.5°	464.4	291.1	142.1	0.0
10°	471.3	298.0	142.1	0.0
7.5°	478.3	298.0	142.1	0.0
5°	478.3	298.0	142.1	0.0
2.5°	478.3	298.0	142.1	0.0
0°	478.3	298.0	142.1	0.0

(END OF REPORT)