

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: P623721

Luminaire Tested: **IFLD-L-SA8B-750-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623721
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	43407.3 lumens	Max Intensity:	53045.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	135.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	21574.5 lumens	Field Lumens:	28058.3 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

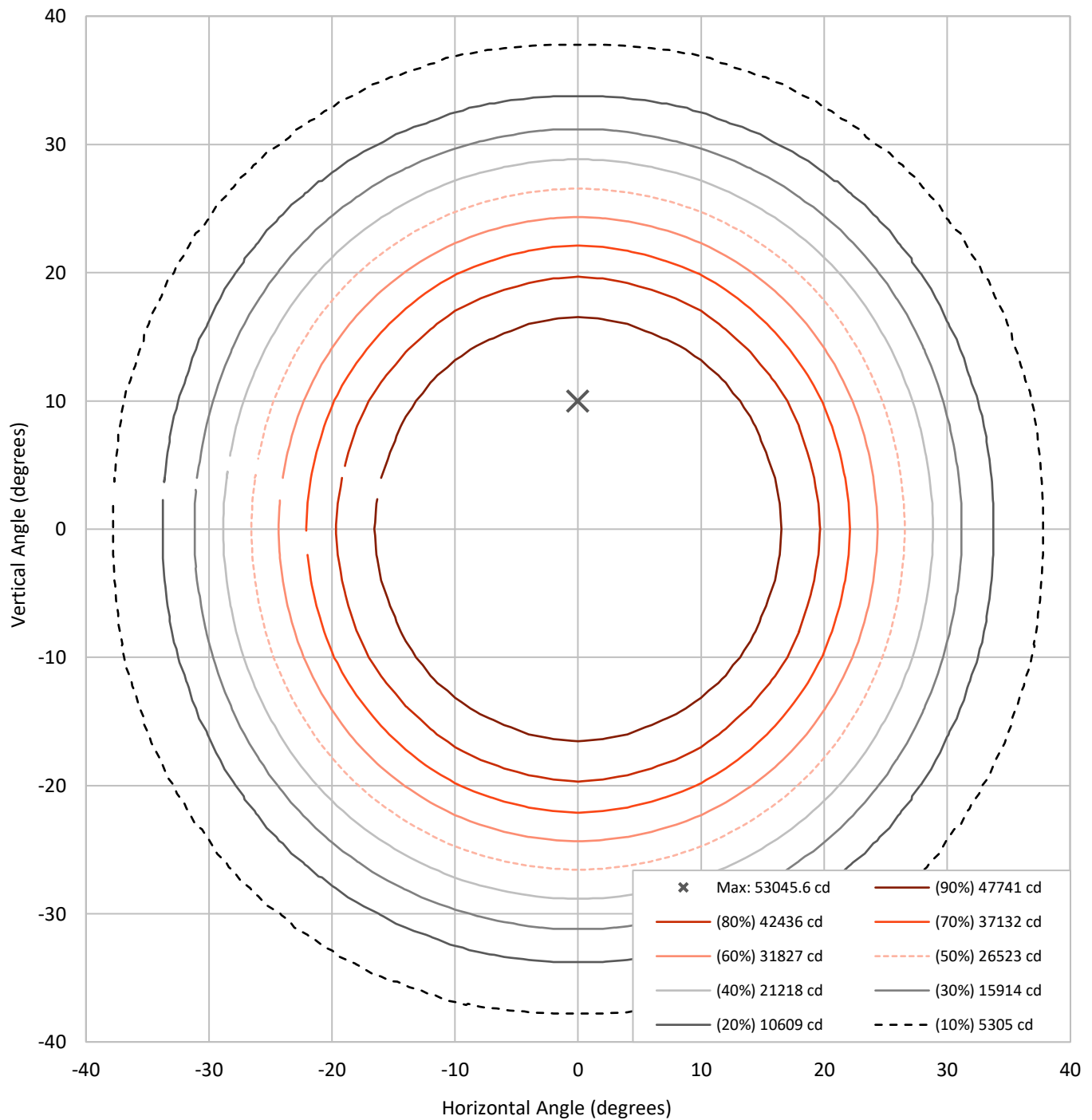
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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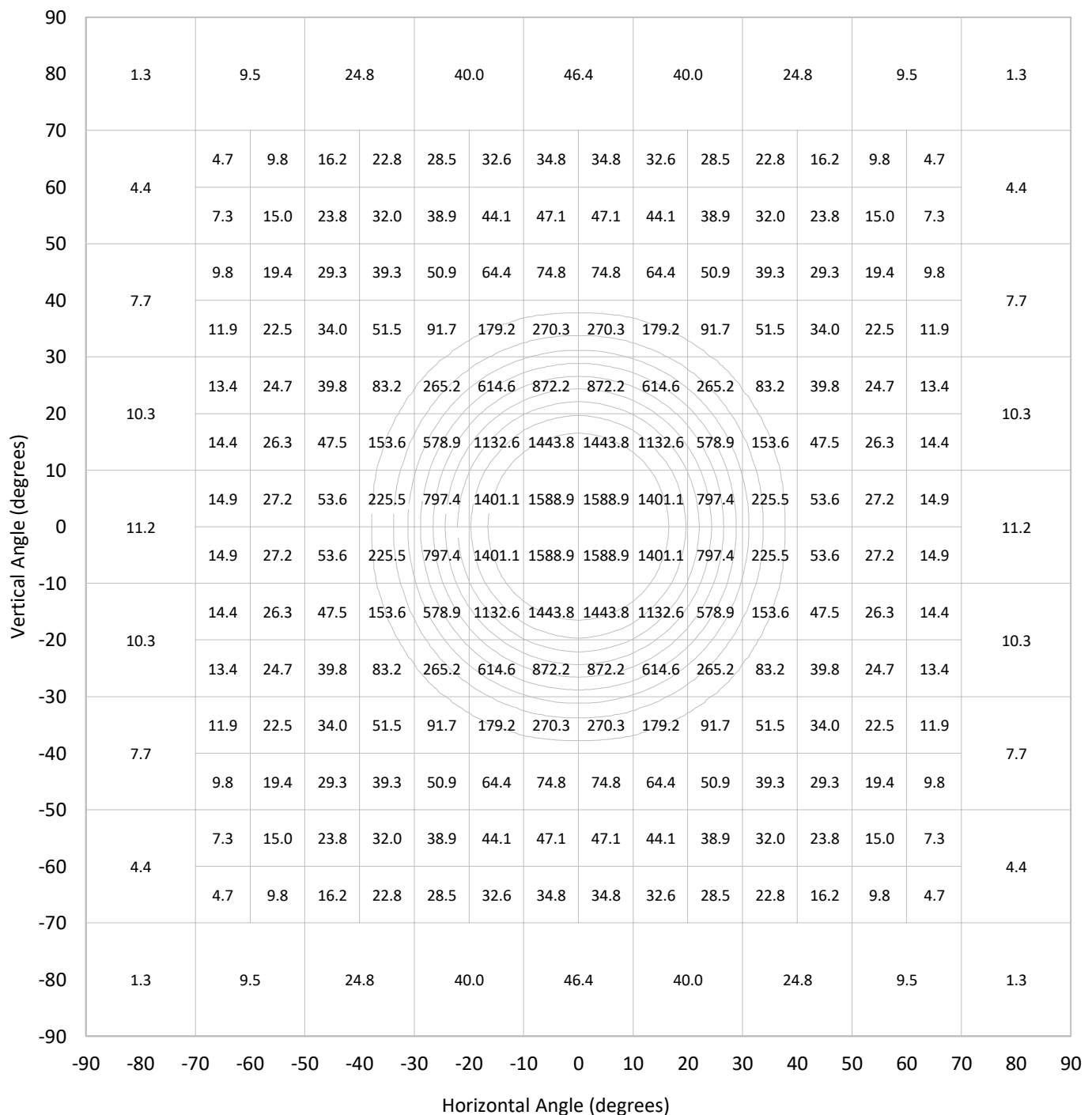
Iso-Candela Plot



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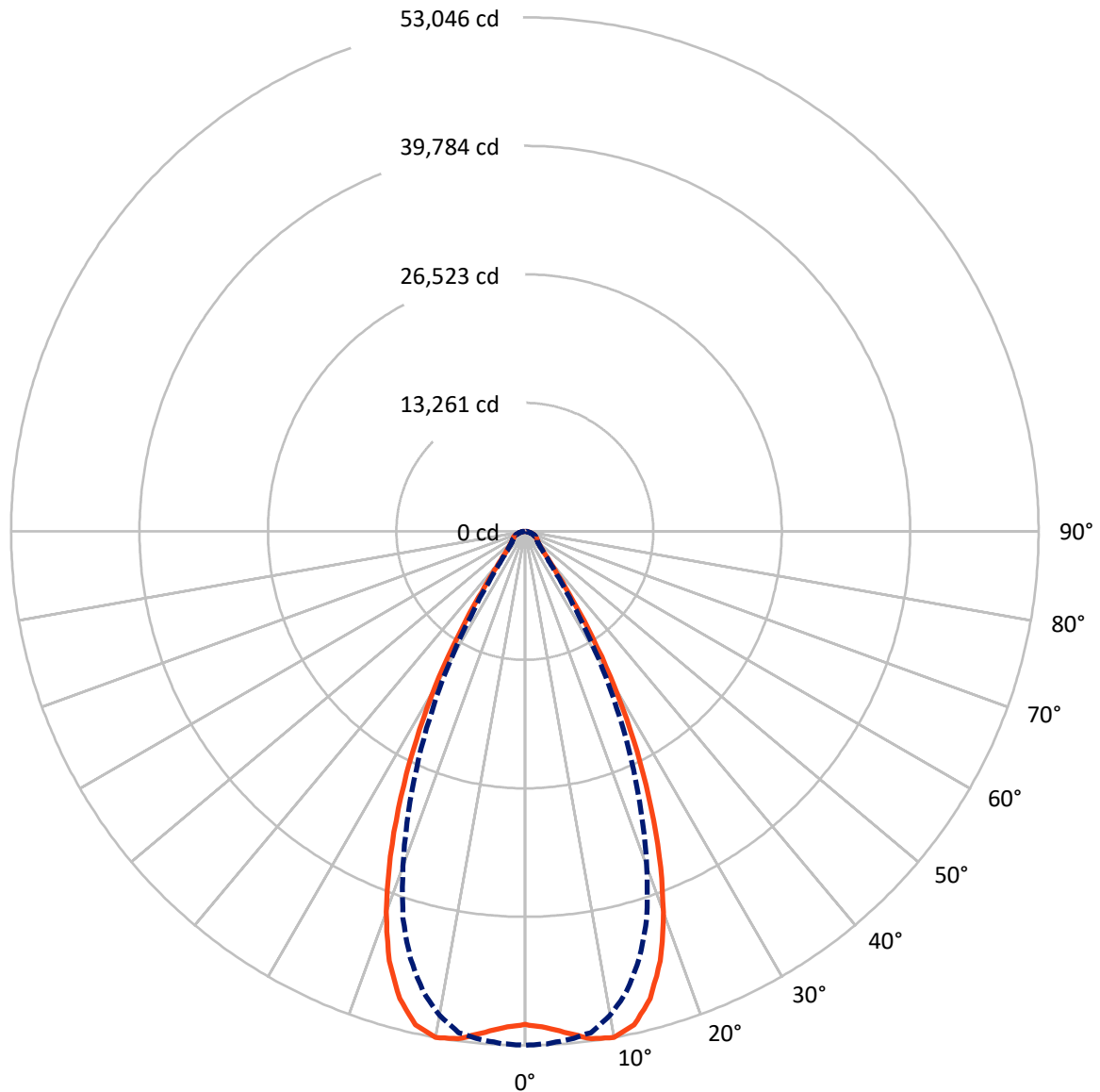
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Lumen Table



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Luminous Intensity Polar Plot

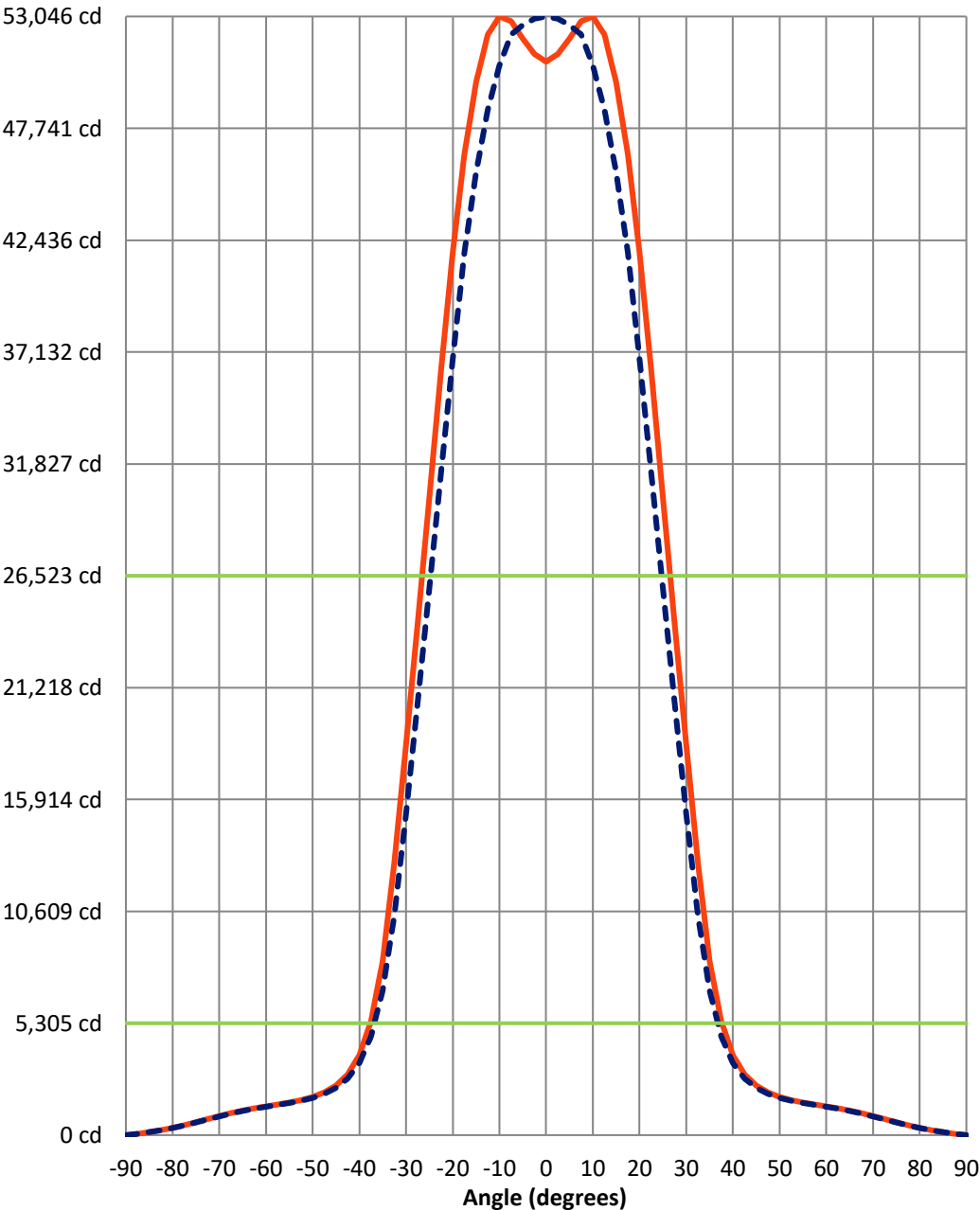


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 21574.5
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 28058.3
Efficiency: 64.6%

Spill:
Lumens: 15349
Efficiency: 35.4%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 10-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°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	54.1	54.1	54.1	54.1
85°	144.3	144.3	144.3	144.3	144.3	139.8	139.8	135.3	135.3	130.8	126.3
82.5°	234.5	234.5	234.5	234.5	230.0	230.0	225.5	220.9	216.4	211.9	207.4
80°	342.7	342.7	342.7	342.7	338.2	333.7	329.2	324.7	315.6	311.1	302.1
77.5°	469.0	469.0	469.0	464.4	459.9	455.4	446.4	437.4	428.4	419.4	410.3
75°	613.2	613.2	613.2	604.2	599.7	590.7	581.7	572.7	559.1	545.6	532.1
72.5°	762.0	762.0	762.0	753.0	744.0	735.0	726.0	712.4	698.9	680.9	662.8
70°	901.8	901.8	901.8	892.8	883.8	874.8	861.2	847.7	829.7	811.6	793.6
67.5°	1046.1	1046.1	1046.1	1032.6	1023.6	1014.6	1001.0	983.0	965.0	942.4	919.9
65°	1163.4	1163.4	1158.8	1154.3	1145.3	1131.8	1122.8	1104.7	1086.7	1068.7	1046.1
62.5°	1271.6	1271.6	1267.1	1262.6	1253.5	1240.0	1226.5	1213.0	1194.9	1172.4	1149.8
60°	1361.8	1361.8	1357.3	1352.7	1343.7	1334.7	1321.2	1307.7	1289.6	1271.6	1249.0
57.5°	1451.9	1451.9	1447.4	1442.9	1433.9	1420.4	1406.9	1393.3	1375.3	1352.7	1330.2
55°	1546.6	1546.6	1542.1	1533.1	1524.1	1510.6	1497.0	1479.0	1456.5	1433.9	1411.4
52.5°	1659.4	1659.4	1650.3	1641.3	1627.8	1614.3	1591.7	1569.2	1542.1	1515.1	1488.0
50°	1808.2	1808.2	1799.1	1785.6	1763.1	1740.5	1713.5	1677.4	1645.8	1609.8	1573.7
47.5°	2029.1	2029.1	2011.1	1988.5	1957.0	1920.9	1871.3	1817.2	1772.1	1727.0	1672.9
45°	2353.8	2353.8	2326.7	2290.6	2241.0	2177.9	2105.8	2029.1	1952.5	1875.8	1799.1
42.5°	2881.3	2881.3	2831.7	2768.6	2682.9	2574.7	2439.4	2313.2	2205.0	2083.2	1979.5
40°	3792.2	3792.2	3697.5	3580.3	3417.9	3210.5	2962.5	2764.1	2574.7	2362.8	2218.5
37.5°	5411.0	5411.0	5226.1	5000.6	4685.0	4288.2	3810.2	3490.1	3138.4	2804.7	2561.2
35°	8269.8	8269.8	7913.5	7476.2	6867.4	6100.9	5284.7	4680.5	4008.6	3494.6	3039.2
32.5°	12959.3	12959.3	12319.0	11529.9	10443.2	9067.9	7760.2	6610.4	5411.0	4558.7	3738.1
30°	18532.6	18532.6	17693.9	16661.3	15245.4	13459.8	11597.5	9554.9	7661.0	6141.5	4901.4
27.5°	24295.3	24056.3	23334.8	22157.9	20543.7	18532.6	16210.4	13572.5	11011.3	8332.9	6560.8
25°	30256.3	29976.8	29151.6	27798.9	25950.1	23673.0	21057.7	18108.7	14947.8	11755.3	8689.1
22.5°	36280.6	35964.9	35027.0	33498.4	31424.2	28872.0	25909.5	22631.4	19100.7	15412.3	11755.3
20°	41849.4	41515.7	40532.7	38941.0	36794.6	33994.4	30702.8	27068.4	23163.5	19100.7	14947.8
17.5°	46511.8	46191.7	45244.7	43725.2	41849.4	38751.6	35329.1	31334.0	27068.4	22631.4	18108.7
15°	49916.2	49641.2	48834.0	47557.9	45646.1	42904.5	39418.9	35329.1	30702.8	25909.5	21057.7
12.5°	52175.3	51954.3	51318.6	50326.5	48613.1	46313.4	42904.5	38751.6	33994.4	28872.0	23673.0
10°	53045.6	52937.3	52639.7	52184.3	50723.3	48613.1	45646.1	41849.4	36794.6	31424.2	25950.1
7.5°	52815.6	52851.7	52955.4	52838.1	52184.3	50326.5	47557.9	43725.2	38941.0	33498.4	27798.9
5°	51994.9	52188.8	52671.3	52955.4	52639.7	51318.6	48834.0	45244.7	40532.7	35027.0	29151.6
2.5°	51264.4	51566.6	52188.8	52851.7	52937.3	51954.3	49641.2	46191.7	41515.7	35964.9	29976.8
0°	50903.7	51264.4	51994.9	52815.6	53045.6	52175.3	49916.2	46511.8	41849.4	36280.6	30256.3

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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°	54.1	49.6	49.6	49.6	45.1	45.1	45.1	40.6	40.6	36.1	36.1
85°	126.3	121.7	117.2	112.7	108.2	103.7	99.2	94.7	90.2	81.2	76.7
82.5°	202.9	198.4	193.9	184.9	180.4	171.3	162.3	153.3	144.3	139.8	130.8
80°	293.1	284.1	275.1	266.0	252.5	239.0	230.0	216.4	207.4	193.9	184.9
77.5°	396.8	383.3	369.7	351.7	338.2	324.7	306.6	293.1	275.1	257.0	239.0
75°	514.0	496.0	473.5	455.4	437.4	414.8	392.3	369.7	347.2	324.7	302.1
72.5°	640.3	617.8	595.2	572.7	545.6	514.0	487.0	455.4	428.4	401.3	369.7
70°	771.1	744.0	717.0	689.9	658.3	622.3	590.7	554.6	518.6	482.5	446.4
67.5°	892.8	865.8	834.2	807.1	771.1	735.0	694.4	653.8	613.2	568.2	523.1
65°	1019.1	987.5	951.4	915.4	879.3	838.7	798.1	757.5	707.9	658.3	613.2
62.5°	1122.8	1095.7	1064.2	1028.1	987.5	942.4	901.8	847.7	798.1	748.5	689.9
60°	1222.0	1190.4	1163.4	1122.8	1086.7	1046.1	996.5	942.4	888.3	829.7	775.6
57.5°	1307.7	1280.6	1249.0	1213.0	1172.4	1131.8	1086.7	1037.1	974.0	915.4	852.2
55°	1384.3	1352.7	1321.2	1289.6	1253.5	1208.5	1163.4	1113.8	1059.6	996.5	928.9
52.5°	1461.0	1429.4	1393.3	1361.8	1321.2	1280.6	1235.5	1185.9	1131.8	1073.2	1001.0
50°	1537.6	1501.5	1465.5	1424.9	1384.3	1343.7	1298.6	1253.5	1194.9	1136.3	1073.2
47.5°	1627.8	1582.7	1537.6	1492.5	1451.9	1402.3	1357.3	1307.7	1258.1	1194.9	1131.8
45°	1740.5	1672.9	1618.8	1564.7	1515.1	1465.5	1411.4	1361.8	1307.7	1253.5	1185.9
42.5°	1880.3	1790.1	1718.0	1645.8	1582.7	1524.1	1470.0	1411.4	1357.3	1298.6	1235.5
40°	2069.7	1947.9	1830.7	1740.5	1659.4	1587.2	1524.1	1465.5	1402.3	1343.7	1280.6
37.5°	2317.7	2146.4	1984.0	1853.3	1749.5	1659.4	1582.7	1515.1	1451.9	1384.3	1321.2
35°	2692.0	2394.4	2186.9	1997.6	1853.3	1740.5	1645.8	1564.7	1492.5	1424.9	1361.8
32.5°	3219.5	2759.6	2425.9	2186.9	1984.0	1830.7	1718.0	1618.8	1537.6	1465.5	1393.3
30°	3913.9	3278.1	2759.6	2394.4	2146.4	1947.9	1790.1	1672.9	1582.7	1501.5	1429.4
27.5°	5014.2	3913.9	3219.5	2692.0	2317.7	2069.7	1880.3	1740.5	1627.8	1537.6	1461.0
25°	6560.8	4901.4	3738.1	3039.2	2561.2	2218.5	1979.5	1799.1	1672.9	1573.7	1488.0
22.5°	8332.9	6141.5	4558.7	3494.6	2804.7	2362.8	2083.2	1875.8	1727.0	1609.8	1515.1
20°	11011.3	7661.0	5411.0	4008.6	3138.4	2574.7	2205.0	1952.5	1772.1	1645.8	1542.1
17.5°	13572.5	9554.9	6610.4	4680.5	3490.1	2764.1	2313.2	2029.1	1817.2	1677.4	1569.2
15°	16210.4	11597.5	7760.2	5284.7	3810.2	2962.5	2439.4	2105.8	1871.3	1713.5	1591.7
12.5°	18532.6	13459.8	9067.9	6100.9	4288.2	3210.5	2574.7	2177.9	1920.9	1740.5	1614.3
10°	20543.7	15245.4	10443.2	6867.4	4685.0	3417.9	2682.9	2241.0	1957.0	1763.1	1627.8
7.5°	22157.9	16661.3	11529.9	7476.2	5000.6	3580.3	2768.6	2290.6	1988.5	1785.6	1641.3
5°	23334.8	17693.9	12319.0	7913.5	5226.1	3697.5	2831.7	2326.7	2011.1	1799.1	1650.3
2.5°	24056.3	18532.6	12959.3	8269.8	5411.0	3792.2	2881.3	2353.8	2029.1	1808.2	1659.4
0°	24295.3	18532.6	12959.3	8269.8	5411.0	3792.2	2881.3	2353.8	2029.1	1808.2	1659.4

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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°	31.6	31.6	27.1	27.1	22.5	22.5	18.0	18.0	13.5	13.5	9.0
85°	72.1	63.1	58.6	54.1	49.6	45.1	40.6	36.1	31.6	27.1	22.5
82.5°	121.7	112.7	99.2	90.2	81.2	72.1	58.6	54.1	45.1	36.1	31.6
80°	171.3	157.8	144.3	130.8	117.2	103.7	90.2	76.7	63.1	49.6	40.6
77.5°	220.9	202.9	189.4	171.3	153.3	135.3	117.2	99.2	81.2	63.1	49.6
75°	279.6	257.0	234.5	211.9	189.4	166.8	148.8	126.3	103.7	81.2	63.1
72.5°	342.7	311.1	284.1	257.0	225.5	202.9	175.9	153.3	126.3	99.2	76.7
70°	410.3	374.3	338.2	302.1	270.5	234.5	207.4	175.9	148.8	117.2	90.2
67.5°	478.0	437.4	396.8	351.7	311.1	275.1	234.5	202.9	166.8	135.3	103.7
65°	559.1	505.0	455.4	405.8	356.2	311.1	270.5	225.5	189.4	153.3	117.2
62.5°	635.8	577.2	518.6	459.9	405.8	351.7	302.1	257.0	211.9	171.3	130.8
60°	712.4	649.3	581.7	518.6	455.4	396.8	338.2	284.1	234.5	189.4	144.3
57.5°	789.1	717.0	649.3	577.2	505.0	437.4	374.3	311.1	257.0	202.9	157.8
55°	856.7	789.1	712.4	635.8	559.1	478.0	410.3	342.7	279.6	220.9	171.3
52.5°	928.9	852.2	775.6	689.9	613.2	523.1	446.4	369.7	302.1	239.0	184.9
50°	996.5	915.4	829.7	748.5	658.3	568.2	482.5	401.3	324.7	257.0	193.9
47.5°	1059.6	974.0	888.3	798.1	707.9	613.2	518.6	428.4	347.2	275.1	207.4
45°	1113.8	1037.1	942.4	847.7	757.5	653.8	554.6	455.4	369.7	293.1	216.4
42.5°	1163.4	1086.7	996.5	901.8	798.1	694.4	590.7	487.0	392.3	306.6	230.0
40°	1208.5	1131.8	1046.1	942.4	838.7	735.0	622.3	514.0	414.8	324.7	239.0
37.5°	1253.5	1172.4	1086.7	987.5	879.3	771.1	658.3	545.6	437.4	338.2	252.5
35°	1289.6	1213.0	1122.8	1028.1	915.4	807.1	689.9	572.7	455.4	351.7	266.0
32.5°	1321.2	1249.0	1163.4	1064.2	951.4	834.2	717.0	595.2	473.5	369.7	275.1
30°	1352.7	1280.6	1190.4	1095.7	987.5	865.8	744.0	617.8	496.0	383.3	284.1
27.5°	1384.3	1307.7	1222.0	1122.8	1019.1	892.8	771.1	640.3	514.0	396.8	293.1
25°	1411.4	1330.2	1249.0	1149.8	1046.1	919.9	793.6	662.8	532.1	410.3	302.1
22.5°	1433.9	1352.7	1271.6	1172.4	1068.7	942.4	811.6	680.9	545.6	419.4	311.1
20°	1456.5	1375.3	1289.6	1194.9	1086.7	965.0	829.7	698.9	559.1	428.4	315.6
17.5°	1479.0	1393.3	1307.7	1213.0	1104.7	983.0	847.7	712.4	572.7	437.4	324.7
15°	1497.0	1406.9	1321.2	1226.5	1122.8	1001.0	861.2	726.0	581.7	446.4	329.2
12.5°	1510.6	1420.4	1334.7	1240.0	1131.8	1014.6	874.8	735.0	590.7	455.4	333.7
10°	1524.1	1433.9	1343.7	1253.5	1145.3	1023.6	883.8	744.0	599.7	459.9	338.2
7.5°	1533.1	1442.9	1352.7	1262.6	1154.3	1032.6	892.8	753.0	604.2	464.4	342.7
5°	1542.1	1447.4	1357.3	1267.1	1158.8	1046.1	901.8	762.0	613.2	469.0	342.7
2.5°	1546.6	1451.9	1361.8	1271.6	1163.4	1046.1	901.8	762.0	613.2	469.0	342.7
0°	1546.6	1451.9	1361.8	1271.6	1163.4	1046.1	901.8	762.0	613.2	469.0	342.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.0	4.5	4.5	0.0
85°	13.5	9.0	4.5	0.0
82.5°	22.5	13.5	9.0	0.0
80°	31.6	22.5	9.0	0.0
77.5°	36.1	27.1	13.5	0.0
75°	45.1	31.6	13.5	0.0
72.5°	54.1	36.1	18.0	0.0
70°	58.6	40.6	18.0	0.0
67.5°	72.1	45.1	22.5	0.0
65°	81.2	49.6	22.5	0.0
62.5°	90.2	54.1	27.1	0.0
60°	99.2	58.6	27.1	0.0
57.5°	112.7	63.1	31.6	0.0
55°	121.7	72.1	31.6	0.0
52.5°	130.8	76.7	36.1	0.0
50°	139.8	81.2	36.1	0.0
47.5°	144.3	90.2	40.6	0.0
45°	153.3	94.7	40.6	0.0
42.5°	162.3	99.2	45.1	0.0
40°	171.3	103.7	45.1	0.0
37.5°	180.4	108.2	45.1	0.0
35°	184.9	112.7	49.6	0.0
32.5°	193.9	117.2	49.6	0.0
30°	198.4	121.7	49.6	0.0
27.5°	202.9	126.3	54.1	0.0
25°	207.4	126.3	54.1	0.0
22.5°	211.9	130.8	54.1	0.0
20°	216.4	135.3	54.1	0.0
17.5°	220.9	135.3	54.1	0.0
15°	225.5	139.8	58.6	0.0
12.5°	230.0	139.8	58.6	0.0
10°	230.0	144.3	58.6	0.0
7.5°	234.5	144.3	58.6	0.0
5°	234.5	144.3	58.6	0.0
2.5°	234.5	144.3	58.6	0.0
0°	234.5	144.3	58.6	0.0

(END OF REPORT)