

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: P623722

Luminaire Tested: **IFLD-L-SA8C-750-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623722
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-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:	54035.8 lumens	Max Intensity:	66034 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	128.6 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:	26857.2 lumens	Field Lumens:	34928.6 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

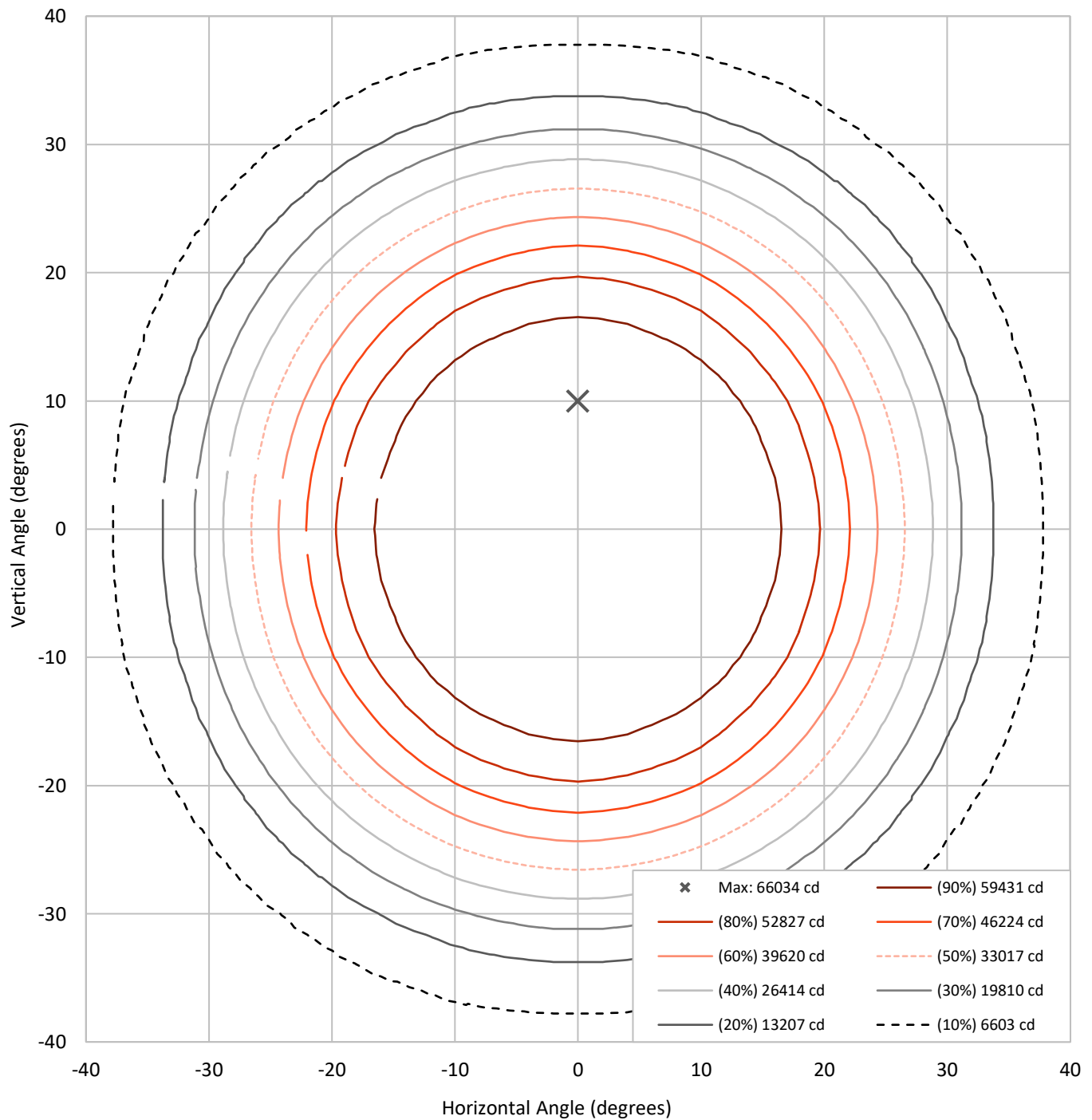
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Candela Plot



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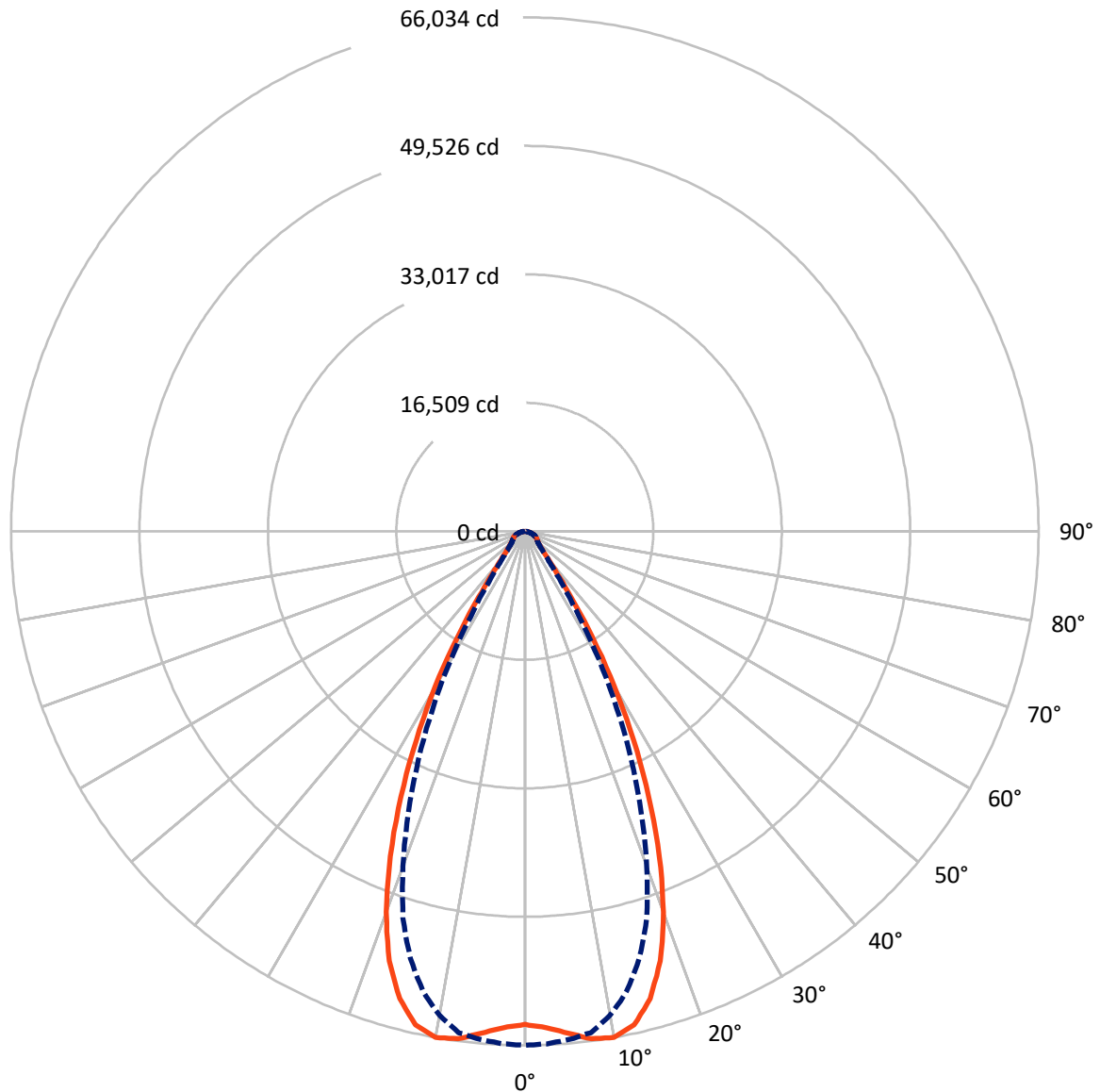
CATALOG NUMBER: IFLD-L-SA8C-750-U-55

Lumen Table

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Luminous Intensity Polar Plot

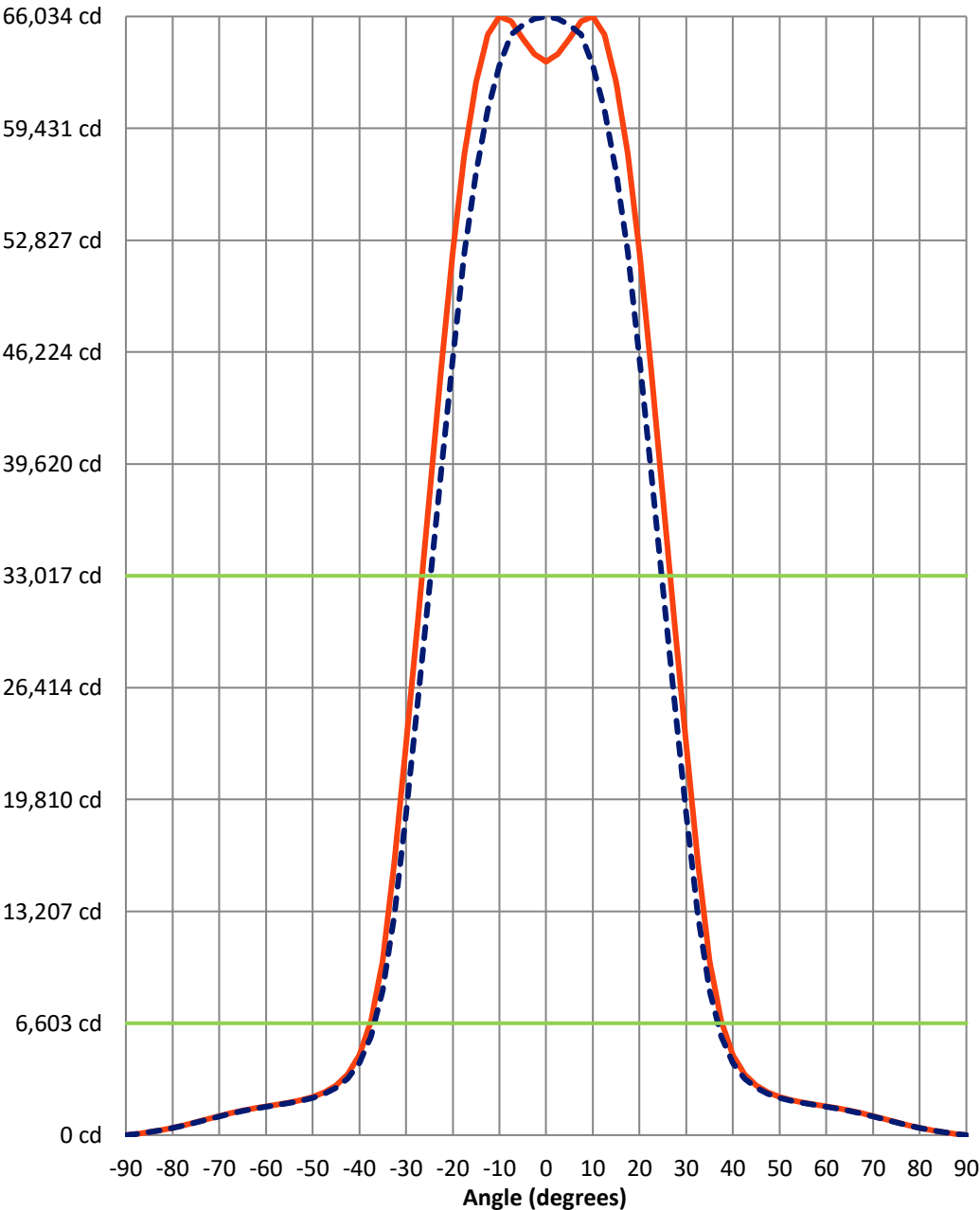


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 26857.2
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 34928.6
Efficiency: 64.6%

Spill:
Lumens: 19107.3
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°	73.0	73.0	73.0	73.0	73.0	73.0	73.0	67.4	67.4	67.4	67.4
85°	179.6	179.6	179.6	179.6	179.6	174.0	174.0	168.4	168.4	162.8	157.2
82.5°	291.9	291.9	291.9	291.9	286.3	286.3	280.7	275.0	269.4	263.8	258.2
80°	426.6	426.6	426.6	426.6	421.0	415.4	409.8	404.2	392.9	387.3	376.1
77.5°	583.8	583.8	583.8	578.2	572.5	566.9	555.7	544.5	533.3	522.0	510.8
75°	763.4	763.4	763.4	752.2	746.6	735.3	724.1	712.9	696.0	679.2	662.4
72.5°	948.6	948.6	948.6	937.4	926.2	915.0	903.7	886.9	870.1	847.6	825.1
70°	1122.6	1122.6	1122.6	1111.4	1100.2	1089.0	1072.1	1055.3	1032.8	1010.4	987.9
67.5°	1302.3	1302.3	1302.3	1285.4	1274.2	1263.0	1246.1	1223.7	1201.2	1173.2	1145.1
65°	1448.2	1448.2	1442.6	1437.0	1425.8	1408.9	1397.7	1375.2	1352.8	1330.3	1302.3
62.5°	1582.9	1582.9	1577.3	1571.7	1560.5	1543.6	1526.8	1510.0	1487.5	1459.4	1431.4
60°	1695.2	1695.2	1689.6	1684.0	1672.7	1661.5	1644.7	1627.8	1605.4	1582.9	1554.9
57.5°	1807.5	1807.5	1801.8	1796.2	1785.0	1768.2	1751.3	1734.5	1712.0	1684.0	1655.9
55°	1925.3	1925.3	1919.7	1908.5	1897.3	1880.4	1863.6	1841.1	1813.1	1785.0	1756.9
52.5°	2065.7	2065.7	2054.4	2043.2	2026.4	2009.5	1981.5	1953.4	1919.7	1886.0	1852.4
50°	2250.9	2250.9	2239.7	2222.8	2194.8	2166.7	2133.0	2088.1	2048.8	2003.9	1959.0
47.5°	2526.0	2526.0	2503.5	2475.4	2436.1	2391.2	2329.5	2262.1	2206.0	2149.9	2082.5
45°	2930.1	2930.1	2896.4	2851.5	2789.8	2711.2	2621.4	2526.0	2430.5	2335.1	2239.7
42.5°	3586.9	3586.9	3525.1	3446.5	3339.9	3205.2	3036.8	2879.6	2744.9	2593.3	2464.2
40°	4720.7	4720.7	4602.8	4456.9	4254.8	3996.6	3687.9	3440.9	3205.2	2941.3	2761.7
37.5°	6735.9	6735.9	6505.7	6225.1	5832.1	5338.2	4743.2	4344.6	3906.8	3491.4	3188.3
35°	10294.7	10294.7	9851.2	9306.7	8549.0	7594.7	6578.7	5826.5	4990.2	4350.3	3783.3
32.5°	16132.4	16132.4	15335.3	14353.0	13000.2	11288.2	9660.4	8229.0	6735.9	5675.0	4653.4
30°	23070.4	23070.4	22026.3	20740.9	18978.3	16755.5	14437.2	11894.4	9536.9	7645.2	6101.6
27.5°	30244.1	29946.6	29048.5	27583.4	25573.9	23070.4	20179.6	16895.8	13707.5	10373.3	8167.3
25°	37664.8	37316.8	36289.5	34605.6	32304.1	29469.5	26213.8	22542.7	18607.9	14633.7	10816.7
22.5°	45164.1	44771.1	43603.6	41700.7	39118.6	35941.5	32253.6	28172.8	23777.6	19186.0	14633.7
20°	52096.4	51681.0	50457.3	48475.9	45804.0	42318.1	38220.5	33696.2	28835.2	23777.6	18607.9
17.5°	57900.5	57501.9	56323.2	54431.5	52096.4	48240.1	43979.7	39006.3	33696.2	28172.8	22542.7
15°	62138.5	61796.1	60791.3	59202.7	56822.7	53409.9	49070.9	43979.7	38220.5	32253.6	26213.8
12.5°	64950.7	64675.6	63884.2	62649.3	60516.2	57653.5	53409.9	48240.1	42318.1	35941.5	29469.5
10°	66034.0	65899.3	65528.9	64961.9	63143.2	60516.2	56822.7	52096.4	45804.0	39118.6	32304.1
7.5°	65747.8	65792.7	65921.8	65775.8	64961.9	62649.3	59202.7	54431.5	48475.9	41700.7	34605.6
5°	64726.2	64967.5	65568.1	65921.8	65528.9	63884.2	60791.3	56323.2	50457.3	43603.6	36289.5
2.5°	63816.8	64192.9	64967.5	65792.7	65899.3	64675.6	61796.1	57501.9	51681.0	44771.1	37316.8
0°	63367.8	63816.8	64726.2	65747.8	66034.0	64950.7	62138.5	57900.5	52096.4	45164.1	37664.8

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CATALOG NUMBER: IFLD-L-SA8C-750-U-55

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°	67.4	61.7	61.7	61.7	56.1	56.1	56.1	50.5	50.5	44.9	44.9
85°	157.2	151.6	145.9	140.3	134.7	129.1	123.5	117.9	112.3	101.0	95.4
82.5°	252.6	247.0	241.4	230.1	224.5	213.3	202.1	190.8	179.6	174.0	162.8
80°	364.9	353.6	342.4	331.2	314.3	297.5	286.3	269.4	258.2	241.4	230.1
77.5°	494.0	477.1	460.3	437.8	421.0	404.2	381.7	364.9	342.4	320.0	297.5
75°	639.9	617.5	589.4	566.9	544.5	516.4	488.4	460.3	432.2	404.2	376.1
72.5°	797.1	769.0	740.9	712.9	679.2	639.9	606.2	566.9	533.3	499.6	460.3
70°	959.9	926.2	892.5	858.8	819.5	774.6	735.3	690.4	645.5	600.6	555.7
67.5°	1111.4	1077.7	1038.4	1004.8	959.9	915.0	864.4	813.9	763.4	707.3	651.1
65°	1268.6	1229.3	1184.4	1139.5	1094.6	1044.1	993.5	943.0	881.3	819.5	763.4
62.5°	1397.7	1364.0	1324.7	1279.8	1229.3	1173.2	1122.6	1055.3	993.5	931.8	858.8
60°	1521.2	1481.9	1448.2	1397.7	1352.8	1302.3	1240.5	1173.2	1105.8	1032.8	965.5
57.5°	1627.8	1594.2	1554.9	1510.0	1459.4	1408.9	1352.8	1291.0	1212.5	1139.5	1060.9
55°	1723.3	1684.0	1644.7	1605.4	1560.5	1504.3	1448.2	1386.5	1319.1	1240.5	1156.3
52.5°	1818.7	1779.4	1734.5	1695.2	1644.7	1594.2	1538.0	1476.3	1408.9	1335.9	1246.1
50°	1914.1	1869.2	1824.3	1773.8	1723.3	1672.7	1616.6	1560.5	1487.5	1414.5	1335.9
47.5°	2026.4	1970.2	1914.1	1858.0	1807.5	1745.7	1689.6	1627.8	1566.1	1487.5	1408.9
45°	2166.7	2082.5	2015.1	1947.8	1886.0	1824.3	1756.9	1695.2	1627.8	1560.5	1476.3
42.5°	2340.7	2228.5	2138.6	2048.8	1970.2	1897.3	1829.9	1756.9	1689.6	1616.6	1538.0
40°	2576.5	2424.9	2279.0	2166.7	2065.7	1975.9	1897.3	1824.3	1745.7	1672.7	1594.2
37.5°	2885.2	2671.9	2469.8	2307.0	2177.9	2065.7	1970.2	1886.0	1807.5	1723.3	1644.7
35°	3351.1	2980.6	2722.4	2486.7	2307.0	2166.7	2048.8	1947.8	1858.0	1773.8	1695.2
32.5°	4007.8	3435.3	3019.9	2722.4	2469.8	2279.0	2138.6	2015.1	1914.1	1824.3	1734.5
30°	4872.3	4080.8	3435.3	2980.6	2671.9	2424.9	2228.5	2082.5	1970.2	1869.2	1779.4
27.5°	6241.9	4872.3	4007.8	3351.1	2885.2	2576.5	2340.7	2166.7	2026.4	1914.1	1818.7
25°	8167.3	6101.6	4653.4	3783.3	3188.3	2761.7	2464.2	2239.7	2082.5	1959.0	1852.4
22.5°	10373.3	7645.2	5675.0	4350.3	3491.4	2941.3	2593.3	2335.1	2149.9	2003.9	1886.0
20°	13707.5	9536.9	6735.9	4990.2	3906.8	3205.2	2744.9	2430.5	2206.0	2048.8	1919.7
17.5°	16895.8	11894.4	8229.0	5826.5	4344.6	3440.9	2879.6	2526.0	2262.1	2088.1	1953.4
15°	20179.6	14437.2	9660.4	6578.7	4743.2	3687.9	3036.8	2621.4	2329.5	2133.0	1981.5
12.5°	23070.4	16755.5	11288.2	7594.7	5338.2	3996.6	3205.2	2711.2	2391.2	2166.7	2009.5
10°	25573.9	18978.3	13000.2	8549.0	5832.1	4254.8	3339.9	2789.8	2436.1	2194.8	2026.4
7.5°	27583.4	20740.9	14353.0	9306.7	6225.1	4456.9	3446.5	2851.5	2475.4	2222.8	2043.2
5°	29048.5	22026.3	15335.3	9851.2	6505.7	4602.8	3525.1	2896.4	2503.5	2239.7	2054.4
2.5°	29946.6	23070.4	16132.4	10294.7	6735.9	4720.7	3586.9	2930.1	2526.0	2250.9	2065.7
0°	30244.1	23070.4	16132.4	10294.7	6735.9	4720.7	3586.9	2930.1	2526.0	2250.9	2065.7

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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°	39.3	39.3	33.7	33.7	28.1	28.1	22.5	22.5	16.8	16.8	11.2
85°	89.8	78.6	73.0	67.4	61.7	56.1	50.5	44.9	39.3	33.7	28.1
82.5°	151.6	140.3	123.5	112.3	101.0	89.8	73.0	67.4	56.1	44.9	39.3
80°	213.3	196.5	179.6	162.8	145.9	129.1	112.3	95.4	78.6	61.7	50.5
77.5°	275.0	252.6	235.8	213.3	190.8	168.4	145.9	123.5	101.0	78.6	61.7
75°	348.0	320.0	291.9	263.8	235.8	207.7	185.2	157.2	129.1	101.0	78.6
72.5°	426.6	387.3	353.6	320.0	280.7	252.6	218.9	190.8	157.2	123.5	95.4
70°	510.8	465.9	421.0	376.1	336.8	291.9	258.2	218.9	185.2	145.9	112.3
67.5°	595.0	544.5	494.0	437.8	387.3	342.4	291.9	252.6	207.7	168.4	129.1
65°	696.0	628.7	566.9	505.2	443.4	387.3	336.8	280.7	235.8	190.8	145.9
62.5°	791.5	718.5	645.5	572.5	505.2	437.8	376.1	320.0	263.8	213.3	162.8
60°	886.9	808.3	724.1	645.5	566.9	494.0	421.0	353.6	291.9	235.8	179.6
57.5°	982.3	892.5	808.3	718.5	628.7	544.5	465.9	387.3	320.0	252.6	196.5
55°	1066.5	982.3	886.9	791.5	696.0	595.0	510.8	426.6	348.0	275.0	213.3
52.5°	1156.3	1060.9	965.5	858.8	763.4	651.1	555.7	460.3	376.1	297.5	230.1
50°	1240.5	1139.5	1032.8	931.8	819.5	707.3	600.6	499.6	404.2	320.0	241.4
47.5°	1319.1	1212.5	1105.8	993.5	881.3	763.4	645.5	533.3	432.2	342.4	258.2
45°	1386.5	1291.0	1173.2	1055.3	943.0	813.9	690.4	566.9	460.3	364.9	269.4
42.5°	1448.2	1352.8	1240.5	1122.6	993.5	864.4	735.3	606.2	488.4	381.7	286.3
40°	1504.3	1408.9	1302.3	1173.2	1044.1	915.0	774.6	639.9	516.4	404.2	297.5
37.5°	1560.5	1459.4	1352.8	1229.3	1094.6	959.9	819.5	679.2	544.5	421.0	314.3
35°	1605.4	1510.0	1397.7	1279.8	1139.5	1004.8	858.8	712.9	566.9	437.8	331.2
32.5°	1644.7	1554.9	1448.2	1324.7	1184.4	1038.4	892.5	740.9	589.4	460.3	342.4
30°	1684.0	1594.2	1481.9	1364.0	1229.3	1077.7	926.2	769.0	617.5	477.1	353.6
27.5°	1723.3	1627.8	1521.2	1397.7	1268.6	1111.4	959.9	797.1	639.9	494.0	364.9
25°	1756.9	1655.9	1554.9	1431.4	1302.3	1145.1	987.9	825.1	662.4	510.8	376.1
22.5°	1785.0	1684.0	1582.9	1459.4	1330.3	1173.2	1010.4	847.6	679.2	522.0	387.3
20°	1813.1	1712.0	1605.4	1487.5	1352.8	1201.2	1032.8	870.1	696.0	533.3	392.9
17.5°	1841.1	1734.5	1627.8	1510.0	1375.2	1223.7	1055.3	886.9	712.9	544.5	404.2
15°	1863.6	1751.3	1644.7	1526.8	1397.7	1246.1	1072.1	903.7	724.1	555.7	409.8
12.5°	1880.4	1768.2	1661.5	1543.6	1408.9	1263.0	1089.0	915.0	735.3	566.9	415.4
10°	1897.3	1785.0	1672.7	1560.5	1425.8	1274.2	1100.2	926.2	746.6	572.5	421.0
7.5°	1908.5	1796.2	1684.0	1571.7	1437.0	1285.4	1111.4	937.4	752.2	578.2	426.6
5°	1919.7	1801.8	1689.6	1577.3	1442.6	1302.3	1122.6	948.6	763.4	583.8	426.6
2.5°	1925.3	1807.5	1695.2	1582.9	1448.2	1302.3	1122.6	948.6	763.4	583.8	426.6
0°	1925.3	1807.5	1695.2	1582.9	1448.2	1302.3	1122.6	948.6	763.4	583.8	426.6

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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	5.6	5.6	0.0
85°	16.8	11.2	5.6	0.0
82.5°	28.1	16.8	11.2	0.0
80°	39.3	28.1	11.2	0.0
77.5°	44.9	33.7	16.8	0.0
75°	56.1	39.3	16.8	0.0
72.5°	67.4	44.9	22.5	0.0
70°	73.0	50.5	22.5	0.0
67.5°	89.8	56.1	28.1	0.0
65°	101.0	61.7	28.1	0.0
62.5°	112.3	67.4	33.7	0.0
60°	123.5	73.0	33.7	0.0
57.5°	140.3	78.6	39.3	0.0
55°	151.6	89.8	39.3	0.0
52.5°	162.8	95.4	44.9	0.0
50°	174.0	101.0	44.9	0.0
47.5°	179.6	112.3	50.5	0.0
45°	190.8	117.9	50.5	0.0
42.5°	202.1	123.5	56.1	0.0
40°	213.3	129.1	56.1	0.0
37.5°	224.5	134.7	56.1	0.0
35°	230.1	140.3	61.7	0.0
32.5°	241.4	145.9	61.7	0.0
30°	247.0	151.6	61.7	0.0
27.5°	252.6	157.2	67.4	0.0
25°	258.2	157.2	67.4	0.0
22.5°	263.8	162.8	67.4	0.0
20°	269.4	168.4	67.4	0.0
17.5°	275.0	168.4	67.4	0.0
15°	280.7	174.0	73.0	0.0
12.5°	286.3	174.0	73.0	0.0
10°	286.3	179.6	73.0	0.0
7.5°	291.9	179.6	73.0	0.0
5°	291.9	179.6	73.0	0.0
2.5°	291.9	179.6	73.0	0.0
0°	291.9	179.6	73.0	0.0

(END OF REPORT)