

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: P623960

Luminaire Tested: **IFLD-S-SA2E-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623960
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	19220.9 lumens	Max Intensity:	10675.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	123.1 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:	8316.7 lumens	Field Lumens:	13618.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

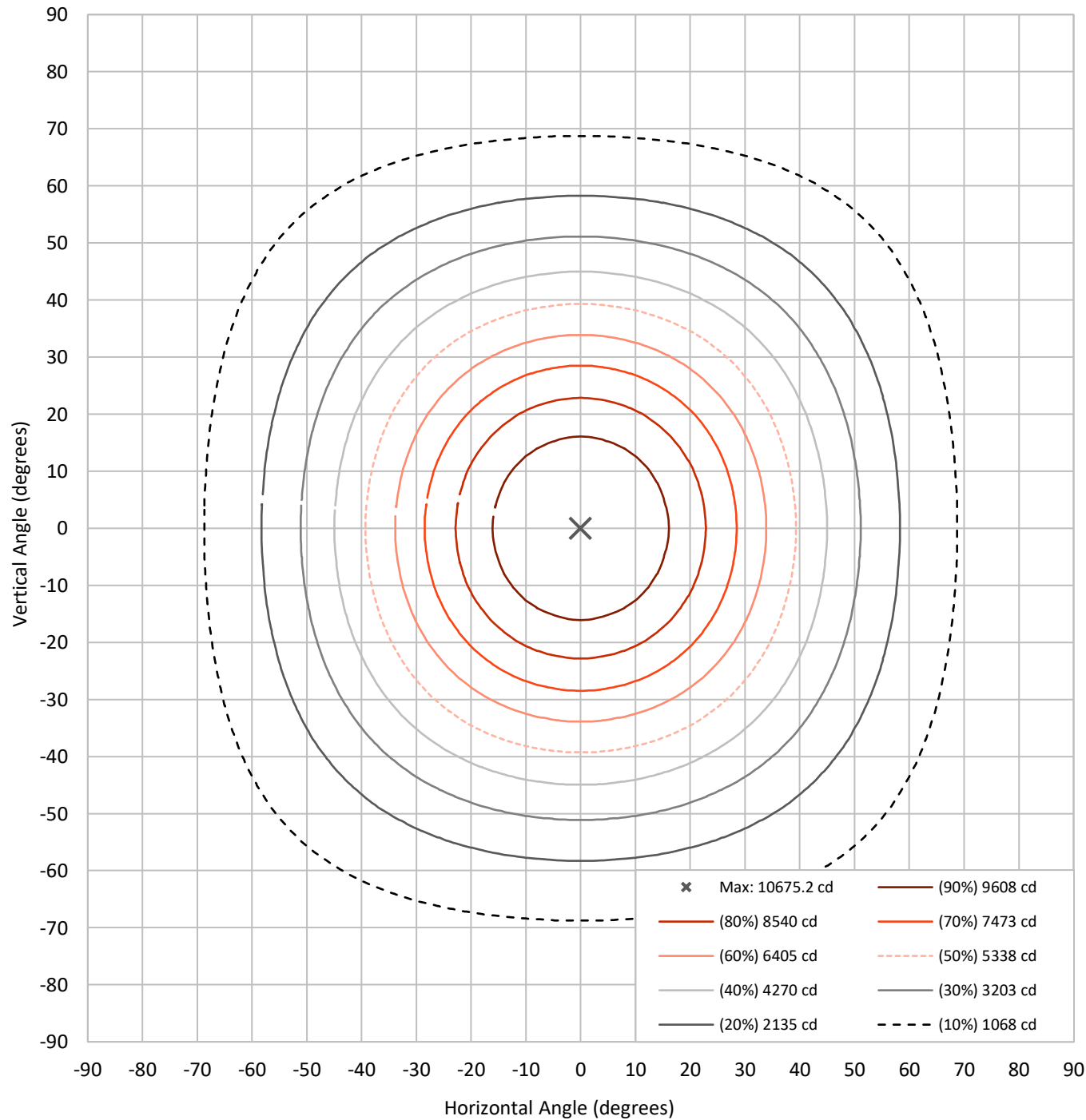
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





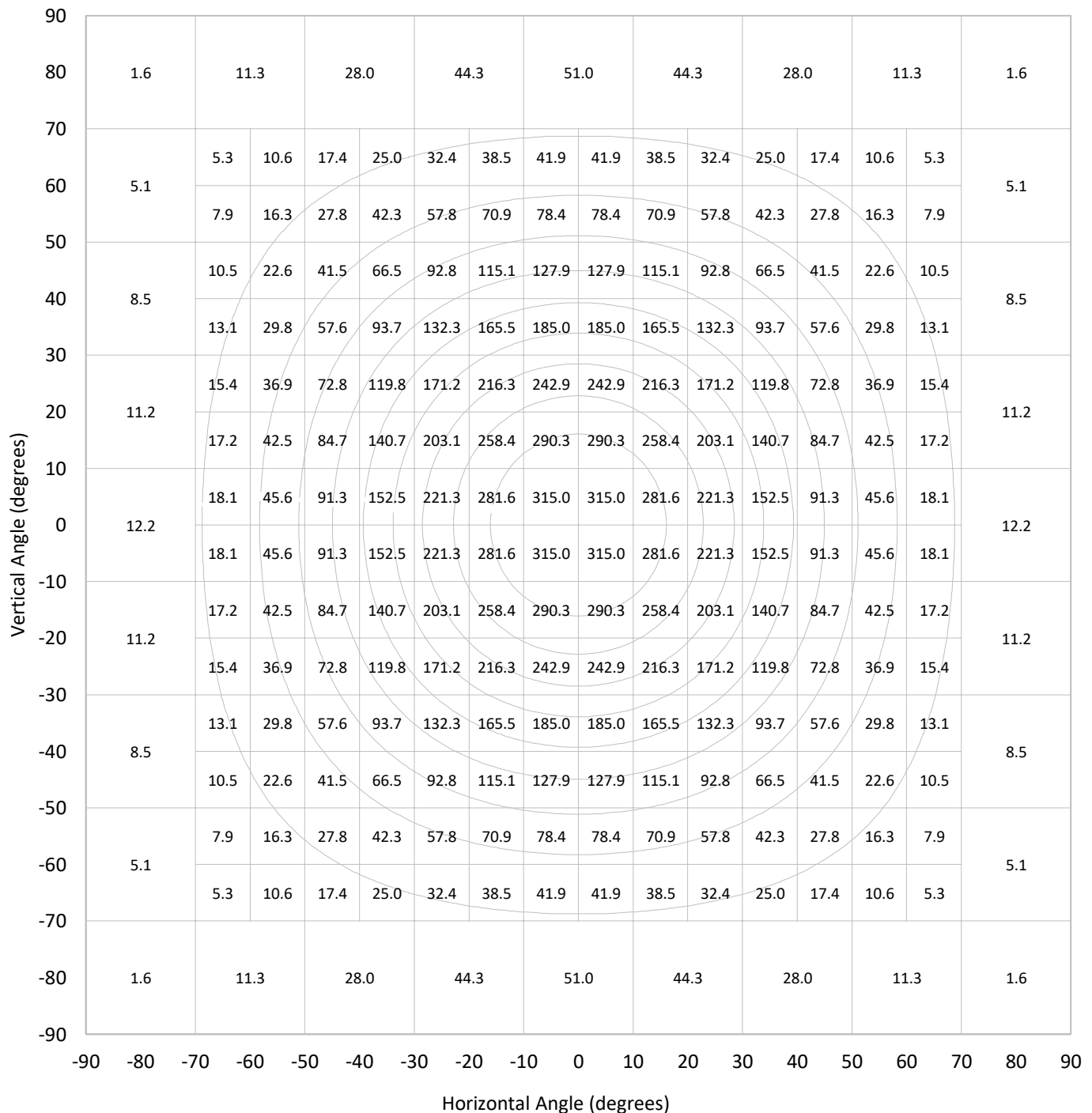
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Iso-Candela Plot



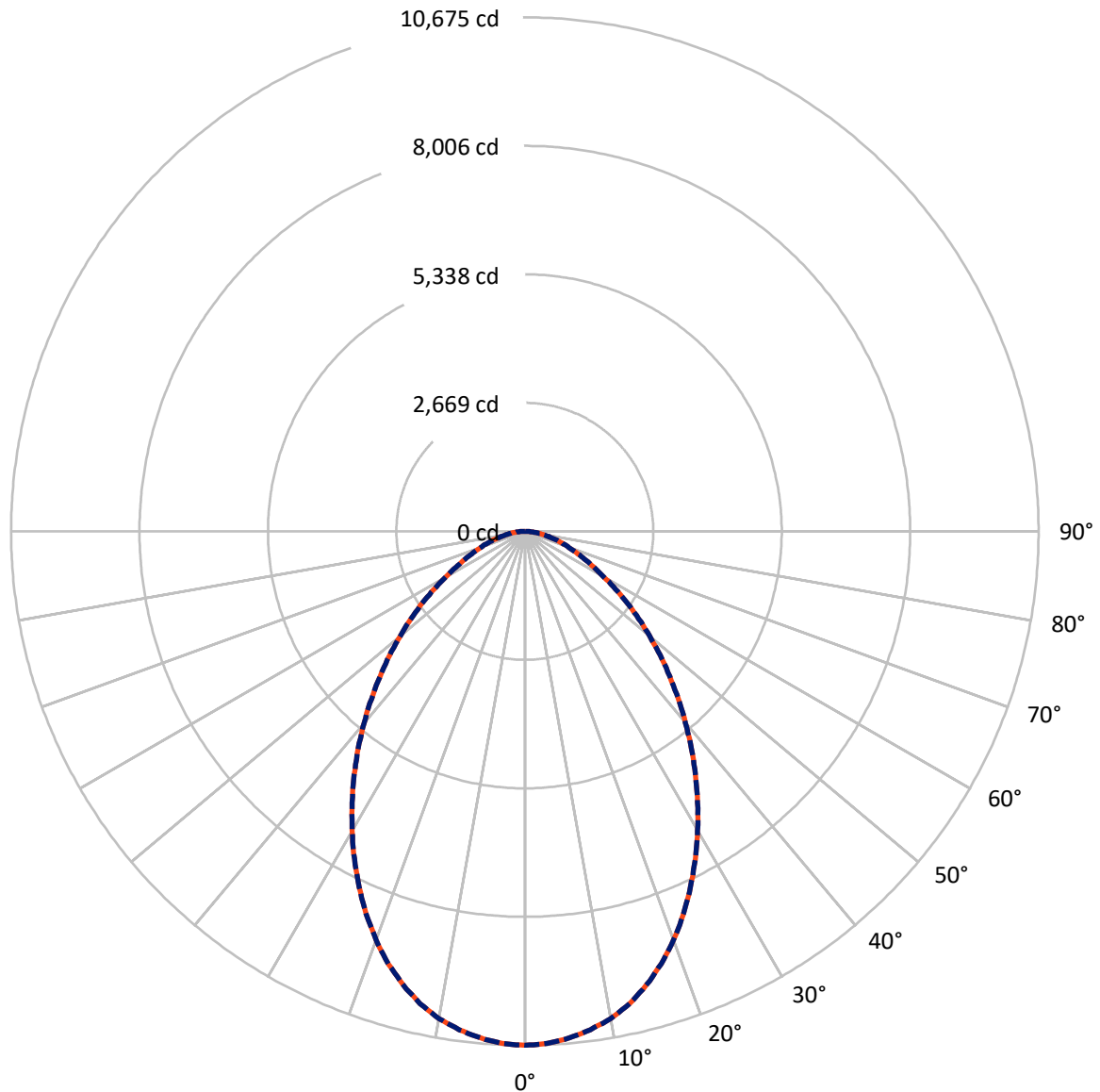
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Lumen Table



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Luminous Intensity Polar Plot

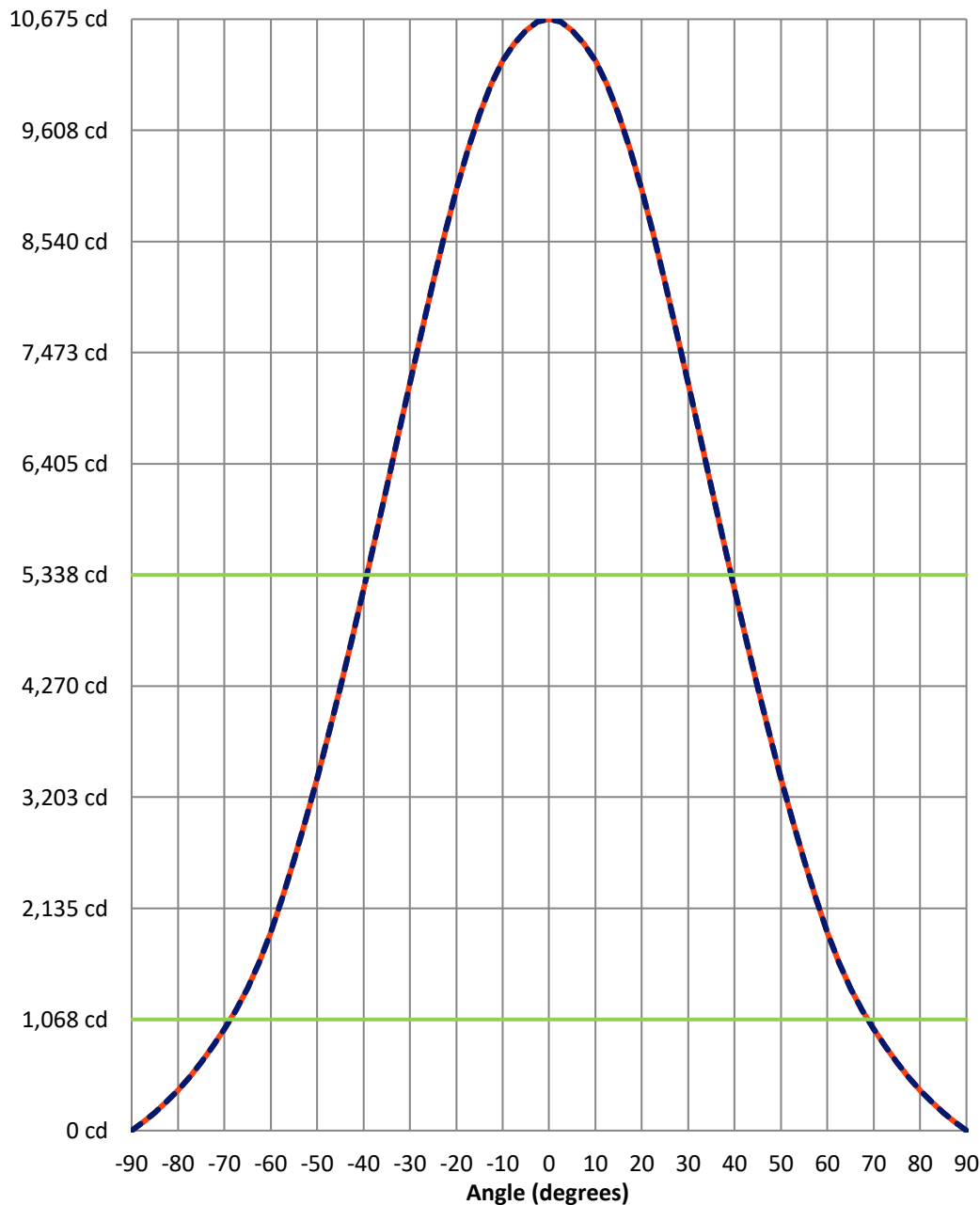


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg

Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 8316.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 13618.3
Efficiency: 70.9%

Spill:

Lumens: 5602.6
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°	82.2	82.2	82.2	82.2	82.2	82.2	82.2	78.2	78.2	76.2	74.1
85°	172.3	172.3	172.3	172.3	172.3	168.3	166.3	164.3	162.3	158.3	156.3
82.5°	276.5	276.5	276.5	276.5	272.5	268.5	266.5	262.5	258.5	252.5	246.5
80°	386.8	386.8	386.8	386.8	380.8	376.7	370.7	366.7	360.7	352.7	344.7
77.5°	513.0	513.0	513.0	507.0	503.0	497.0	491.0	483.0	474.9	464.9	452.9
75°	655.3	655.3	655.3	647.3	641.3	635.3	625.2	615.2	603.2	589.2	573.1
72.5°	809.6	809.6	809.6	799.6	793.6	783.6	771.5	757.5	743.5	725.4	705.4
70°	975.9	975.9	975.9	963.9	953.9	943.9	927.8	911.8	891.8	871.7	847.7
67.5°	1156.3	1156.3	1156.3	1142.3	1130.2	1116.2	1098.2	1078.1	1054.1	1026.0	998.0
65°	1366.7	1366.7	1358.7	1346.7	1332.6	1312.6	1290.6	1262.5	1232.4	1196.4	1158.3
62.5°	1615.2	1615.2	1603.2	1589.2	1571.1	1545.1	1515.0	1478.9	1436.8	1390.8	1344.7
60°	1903.8	1903.8	1889.7	1871.7	1845.7	1813.6	1773.5	1727.4	1675.3	1617.2	1561.1
57.5°	2236.4	2236.4	2218.4	2194.4	2162.3	2122.2	2072.1	2014.0	1947.9	1875.7	1805.6
55°	2597.2	2597.2	2575.1	2547.1	2509.0	2460.9	2400.8	2332.6	2252.5	2170.3	2080.1
52.5°	2979.9	2979.9	2953.9	2921.8	2877.7	2821.6	2753.5	2673.3	2581.1	2484.9	2378.7
50°	3382.7	3382.7	3352.6	3316.6	3266.5	3200.3	3122.2	3030.0	2927.8	2815.6	2693.3
47.5°	3813.6	3813.6	3779.5	3737.4	3677.3	3601.1	3509.0	3402.7	3286.5	3160.3	3022.0
45°	4256.4	4256.4	4218.4	4170.3	4104.1	4018.0	3915.8	3813.6	3665.3	3519.0	3358.7
42.5°	4717.4	4717.4	4673.3	4619.2	4543.0	4448.8	4332.6	4200.3	4054.0	3889.7	3715.4
40°	5196.3	5196.3	5146.2	5084.1	4999.9	4891.7	4761.4	4613.1	4448.8	4266.5	4074.1
37.5°	5685.3	5685.3	5629.2	5561.0	5466.8	5346.6	5200.3	5036.0	4851.6	4649.2	4436.8
35°	6178.3	6178.3	6116.1	6042.0	5937.8	5805.5	5647.2	5464.8	5260.4	5040.0	4801.5
32.5°	6681.3	6681.3	6613.1	6528.9	6410.7	6264.4	6090.1	5891.7	5685.3	5428.8	5168.3
30°	7178.2	7178.2	7104.1	7011.9	6885.7	6725.3	6535.0	6316.5	6074.0	5811.5	5531.0
27.5°	7667.2	7647.2	7585.0	7486.8	7348.6	7178.2	6971.8	6735.4	6472.8	6184.3	5883.7
25°	8148.2	8126.1	8058.0	7949.8	7801.5	7615.1	7392.7	7140.2	6857.6	6553.0	6224.3
22.5°	8609.1	8585.0	8512.9	8396.7	8238.3	8035.9	7797.5	7526.9	7226.3	6899.7	6553.0
20°	9035.9	9009.9	8935.7	8813.5	8649.2	8434.7	8182.2	7891.7	7571.0	7226.3	6857.6
17.5°	9420.7	9394.6	9316.5	9190.2	9035.9	8797.4	8536.9	8230.3	7891.7	7526.9	7140.2
15°	9759.4	9731.3	9651.1	9524.9	9348.5	9124.1	8849.6	8536.9	8182.2	7797.5	7392.7
12.5°	10047.9	10019.9	9937.7	9811.5	9629.1	9404.7	9124.1	8797.4	8434.7	8035.9	7615.1
10°	10276.4	10248.3	10170.2	10049.9	9861.6	9629.1	9348.5	9035.9	8649.2	8238.3	7801.5
7.5°	10440.7	10414.7	10342.5	10222.3	10049.9	9811.5	9524.9	9190.2	8813.5	8396.7	7949.8
5°	10565.0	10534.9	10462.8	10342.5	10170.2	9937.7	9651.1	9316.5	8935.7	8512.9	8058.0
2.5°	10651.1	10615.1	10534.9	10414.7	10248.3	10019.9	9731.3	9394.6	9009.9	8585.0	8126.1
0°	10675.2	10651.1	10565.0	10440.7	10276.4	10047.9	9759.4	9420.7	9035.9	8609.1	8148.2

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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°	72.1	72.1	70.1	68.1	66.1	62.1	60.1	58.1	56.1	52.1	50.1
85°	152.3	148.3	144.3	140.3	134.3	130.3	124.2	120.2	114.2	108.2	102.2
82.5°	240.5	234.5	226.4	220.4	212.4	202.4	194.4	184.4	174.3	166.3	156.3
80°	336.7	326.6	316.6	306.6	294.6	282.6	270.5	258.5	244.5	230.5	216.4
77.5°	440.9	426.8	412.8	396.8	382.8	366.7	350.7	334.7	316.6	298.6	280.6
75°	557.1	539.1	519.0	499.0	481.0	458.9	436.9	414.8	390.8	368.7	344.7
72.5°	683.4	661.3	637.3	613.2	587.2	559.1	531.1	501.0	472.9	444.9	414.8
70°	819.6	793.6	763.5	733.5	701.4	667.3	633.3	597.2	561.1	525.0	489.0
67.5°	965.9	933.9	897.8	861.7	821.6	781.6	741.5	699.4	655.3	611.2	569.1
65°	1122.2	1082.1	1040.1	994.0	947.9	901.8	853.7	803.6	753.5	701.4	655.3
62.5°	1296.6	1246.5	1192.4	1136.3	1084.2	1028.0	975.9	913.8	853.7	795.6	737.5
60°	1499.0	1432.8	1366.7	1296.6	1230.4	1158.3	1094.2	1026.0	957.9	891.8	823.6
57.5°	1725.4	1641.3	1561.1	1476.9	1388.8	1308.6	1226.4	1144.3	1068.1	990.0	915.8
55°	1981.9	1879.7	1779.5	1675.3	1573.1	1472.9	1368.7	1276.5	1182.3	1094.2	1008.0
52.5°	2262.5	2146.3	2022.0	1903.8	1773.5	1649.3	1533.0	1416.8	1306.6	1200.4	1102.2
50°	2563.1	2426.8	2284.5	2140.2	1992.0	1845.7	1705.4	1569.1	1440.9	1316.6	1200.4
47.5°	2875.7	2721.4	2559.1	2394.7	2236.4	2058.1	1889.7	1735.4	1581.1	1440.9	1306.6
45°	3196.3	3022.0	2843.6	2657.3	2470.9	2278.5	2092.1	1903.8	1735.4	1569.1	1416.8
42.5°	3527.0	3330.6	3132.2	2925.8	2719.4	2509.0	2298.6	2092.1	1889.7	1705.4	1533.0
40°	3867.7	3651.2	3424.8	3200.3	2979.9	2739.4	2509.0	2278.5	2058.1	1845.7	1649.3
37.5°	4208.3	3971.9	3727.4	3474.9	3222.4	2979.9	2719.4	2470.9	2236.4	1992.0	1773.5
35°	4551.0	4290.5	4026.0	3751.4	3474.9	3200.3	2925.8	2657.3	2394.7	2140.2	1903.8
32.5°	4895.7	4611.1	4318.6	4026.0	3727.4	3424.8	3132.2	2843.6	2559.1	2284.5	2022.0
30°	5234.4	4925.8	4611.1	4290.5	3971.9	3651.2	3330.6	3022.0	2721.4	2426.8	2146.3
27.5°	5565.0	5234.4	4895.7	4551.0	4208.3	3867.7	3527.0	3196.3	2875.7	2563.1	2262.5
25°	5883.7	5531.0	5168.3	4801.5	4436.8	4074.1	3715.4	3358.7	3022.0	2693.3	2378.7
22.5°	6184.3	5811.5	5428.8	5040.0	4649.2	4266.5	3889.7	3519.0	3160.3	2815.6	2484.9
20°	6472.8	6074.0	5685.3	5260.4	4851.6	4448.8	4054.0	3665.3	3286.5	2927.8	2581.1
17.5°	6735.4	6316.5	5891.7	5464.8	5036.0	4613.1	4200.3	3813.6	3402.7	3030.0	2673.3
15°	6971.8	6535.0	6090.1	5647.2	5200.3	4761.4	4332.6	3915.8	3509.0	3122.2	2753.5
12.5°	7178.2	6725.3	6264.4	5805.5	5346.6	4891.7	4448.8	4018.0	3601.1	3200.3	2821.6
10°	7348.6	6885.7	6410.7	5937.8	5466.8	4999.9	4543.0	4104.1	3677.3	3266.5	2877.7
7.5°	7486.8	7011.9	6528.9	6042.0	5561.0	5084.1	4619.2	4170.3	3737.4	3316.6	2921.8
5°	7585.0	7104.1	6613.1	6116.1	5629.2	5146.2	4673.3	4218.4	3779.5	3352.6	2953.9
2.5°	7647.2	7178.2	6681.3	6178.3	5685.3	5196.3	4717.4	4256.4	3813.6	3382.7	2979.9
0°	7667.2	7178.2	6681.3	6178.3	5685.3	5196.3	4717.4	4256.4	3813.6	3382.7	2979.9

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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°	48.1	44.1	40.1	38.1	34.1	32.1	28.1	24.0	22.0	18.0	14.0
85°	96.2	88.2	82.2	76.2	70.1	62.1	56.1	50.1	42.1	36.1	28.1
82.5°	146.3	136.3	126.3	116.2	106.2	96.2	84.2	74.1	64.1	54.1	42.1
80°	202.4	186.4	172.3	158.3	144.3	130.3	114.2	100.2	84.2	70.1	56.1
77.5°	260.5	242.5	222.4	202.4	182.4	164.3	144.3	126.3	108.2	88.2	70.1
75°	322.6	298.6	276.5	250.5	226.4	200.4	176.3	152.3	130.3	108.2	84.2
72.5°	386.8	356.7	326.6	298.6	268.5	238.5	210.4	180.4	152.3	126.3	100.2
70°	452.9	416.8	380.8	346.7	312.6	276.5	244.5	210.4	176.3	144.3	114.2
67.5°	523.0	481.0	438.9	394.8	356.7	316.6	276.5	238.5	200.4	164.3	130.3
65°	599.2	549.1	497.0	450.9	400.8	356.7	312.6	268.5	226.4	182.4	144.3
62.5°	677.3	619.2	561.1	503.0	450.9	394.8	346.7	298.6	250.5	202.4	158.3
60°	757.5	691.4	625.2	561.1	497.0	438.9	380.8	326.6	276.5	222.4	172.3
57.5°	839.7	765.5	691.4	619.2	549.1	481.0	416.8	356.7	298.6	242.5	186.4
55°	923.8	839.7	757.5	677.3	599.2	523.0	452.9	386.8	322.6	260.5	202.4
52.5°	1008.0	915.8	823.6	737.5	655.3	569.1	489.0	414.8	344.7	280.6	216.4
50°	1094.2	990.0	891.8	795.6	701.4	611.2	525.0	444.9	368.7	298.6	230.5
47.5°	1182.3	1068.1	957.9	853.7	753.5	655.3	561.1	472.9	390.8	316.6	244.5
45°	1276.5	1144.3	1026.0	913.8	803.6	699.4	597.2	501.0	414.8	334.7	258.5
42.5°	1368.7	1226.4	1094.2	975.9	853.7	741.5	633.3	531.1	436.9	350.7	270.5
40°	1472.9	1308.6	1158.3	1028.0	901.8	781.6	667.3	559.1	458.9	366.7	282.6
37.5°	1573.1	1388.8	1230.4	1084.2	947.9	821.6	701.4	587.2	481.0	382.8	294.6
35°	1675.3	1476.9	1296.6	1136.3	994.0	861.7	733.5	613.2	499.0	396.8	306.6
32.5°	1779.5	1561.1	1366.7	1192.4	1040.1	897.8	763.5	637.3	519.0	412.8	316.6
30°	1879.7	1641.3	1432.8	1246.5	1082.1	933.9	793.6	661.3	539.1	426.8	326.6
27.5°	1981.9	1725.4	1499.0	1296.6	1122.2	965.9	819.6	683.4	557.1	440.9	336.7
25°	2080.1	1805.6	1561.1	1344.7	1158.3	998.0	847.7	705.4	573.1	452.9	344.7
22.5°	2170.3	1875.7	1617.2	1390.8	1196.4	1026.0	871.7	725.4	589.2	464.9	352.7
20°	2252.5	1947.9	1675.3	1436.8	1232.4	1054.1	891.8	743.5	603.2	474.9	360.7
17.5°	2332.6	2014.0	1727.4	1478.9	1262.5	1078.1	911.8	757.5	615.2	483.0	366.7
15°	2400.8	2072.1	1773.5	1515.0	1290.6	1098.2	927.8	771.5	625.2	491.0	370.7
12.5°	2460.9	2122.2	1813.6	1545.1	1312.6	1116.2	943.9	783.6	635.3	497.0	376.7
10°	2509.0	2162.3	1845.7	1571.1	1332.6	1130.2	953.9	793.6	641.3	503.0	380.8
7.5°	2547.1	2194.4	1871.7	1589.2	1346.7	1142.3	963.9	799.6	647.3	507.0	386.8
5°	2575.1	2218.4	1889.7	1603.2	1358.7	1156.3	975.9	809.6	655.3	513.0	386.8
2.5°	2597.2	2236.4	1903.8	1615.2	1366.7	1156.3	975.9	809.6	655.3	513.0	386.8
0°	2597.2	2236.4	1903.8	1615.2	1366.7	1156.3	975.9	809.6	655.3	513.0	386.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.0	8.0	4.0	0.0
85°	22.0	14.0	8.0	0.0
82.5°	32.1	22.0	10.0	0.0
80°	42.1	28.1	14.0	0.0
77.5°	54.1	36.1	18.0	0.0
75°	64.1	42.1	22.0	0.0
72.5°	74.1	50.1	24.0	0.0
70°	84.2	56.1	28.1	0.0
67.5°	96.2	62.1	32.1	0.0
65°	106.2	70.1	34.1	0.0
62.5°	116.2	76.2	38.1	0.0
60°	126.3	82.2	40.1	0.0
57.5°	136.3	88.2	44.1	0.0
55°	146.3	96.2	48.1	0.0
52.5°	156.3	102.2	50.1	0.0
50°	166.3	108.2	52.1	0.0
47.5°	174.3	114.2	56.1	0.0
45°	184.4	120.2	58.1	0.0
42.5°	194.4	124.2	60.1	0.0
40°	202.4	130.3	62.1	0.0
37.5°	212.4	134.3	66.1	0.0
35°	220.4	140.3	68.1	0.0
32.5°	226.4	144.3	70.1	0.0
30°	234.5	148.3	72.1	0.0
27.5°	240.5	152.3	72.1	0.0
25°	246.5	156.3	74.1	0.0
22.5°	252.5	158.3	76.2	0.0
20°	258.5	162.3	78.2	0.0
17.5°	262.5	164.3	78.2	0.0
15°	266.5	166.3	82.2	0.0
12.5°	268.5	168.3	82.2	0.0
10°	272.5	172.3	82.2	0.0
7.5°	276.5	172.3	82.2	0.0
5°	276.5	172.3	82.2	0.0
2.5°	276.5	172.3	82.2	0.0
0°	276.5	172.3	82.2	0.0

(END OF REPORT)