

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: P623828

Luminaire Tested: **IFLD-M-SA4C-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623828
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

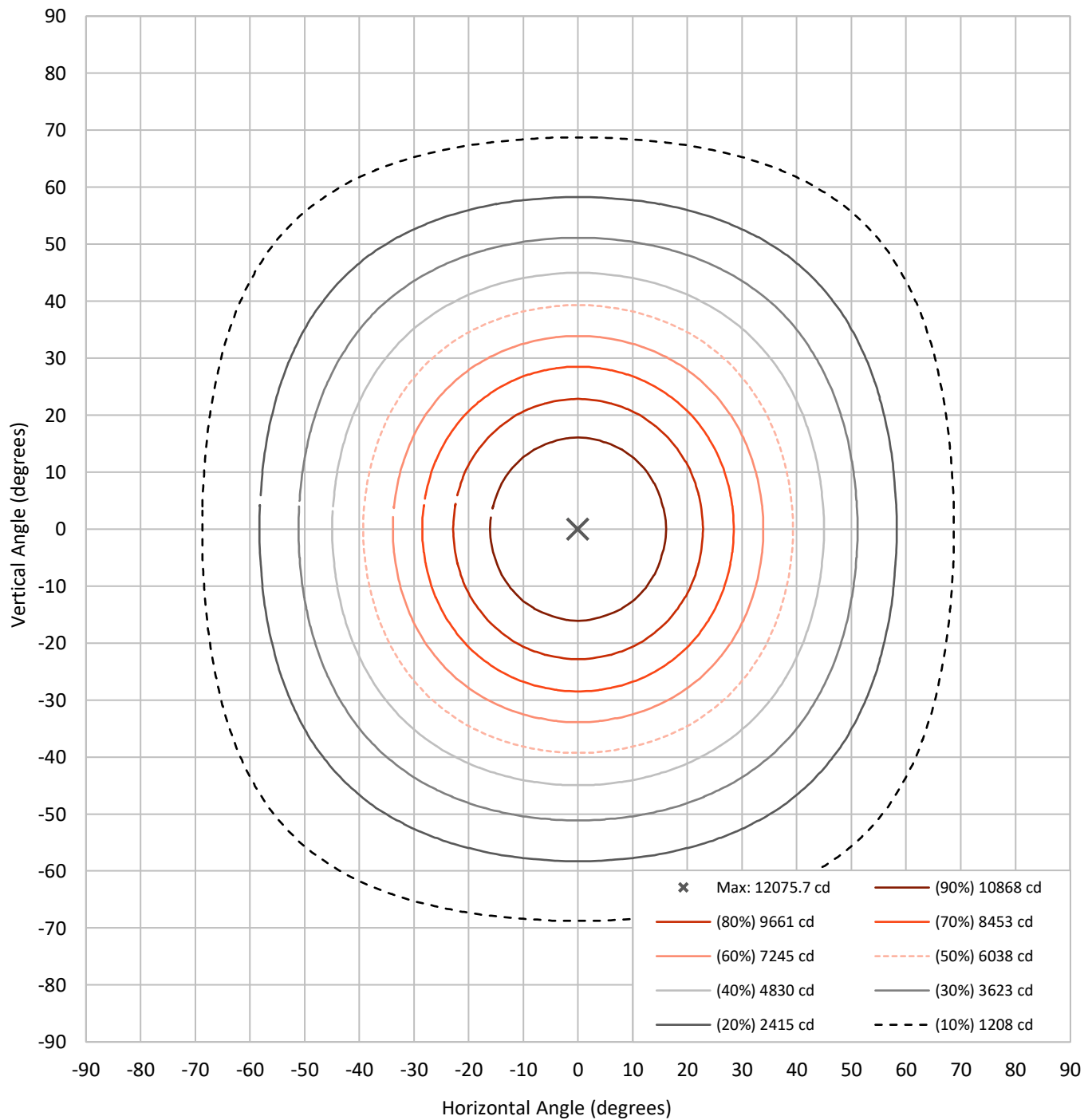
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21742.6 lumens	Max Intensity:	12075.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	99.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	9407.8 lumens	Field Lumens:	15404.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

Input Watts (W): 218.1
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



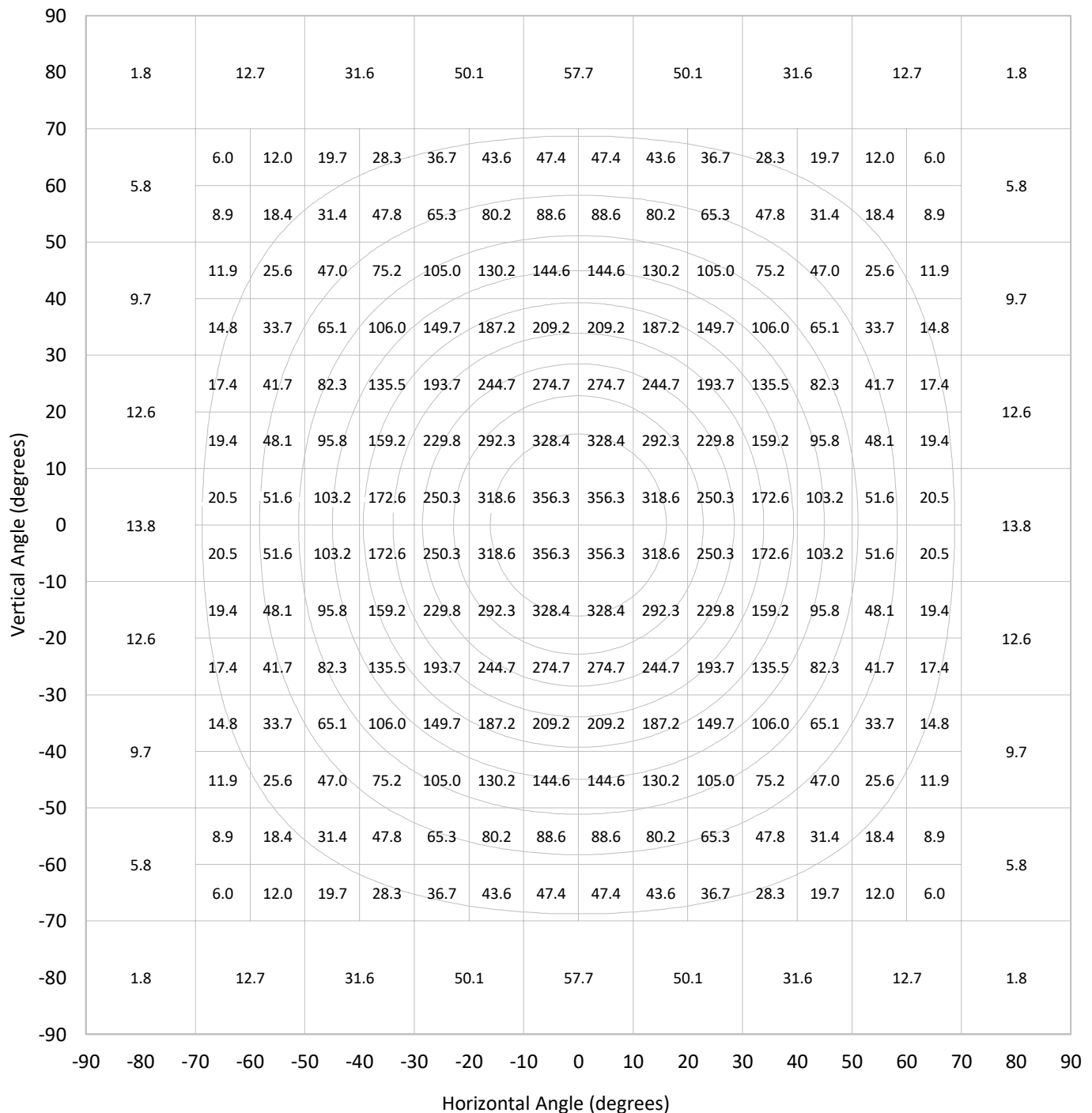
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Iso-Candela Plot



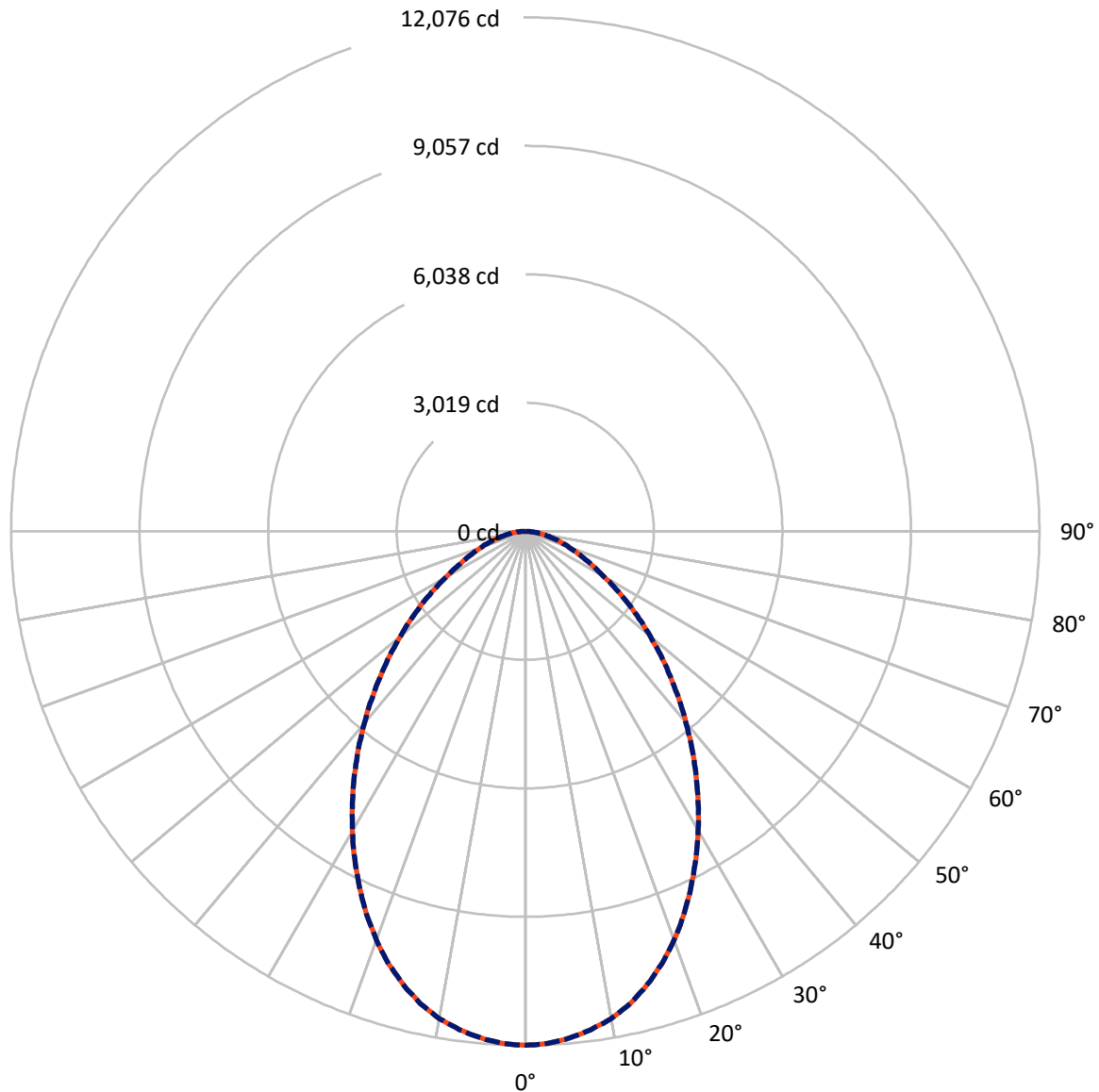
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Lumen Table



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Luminous Intensity Polar Plot

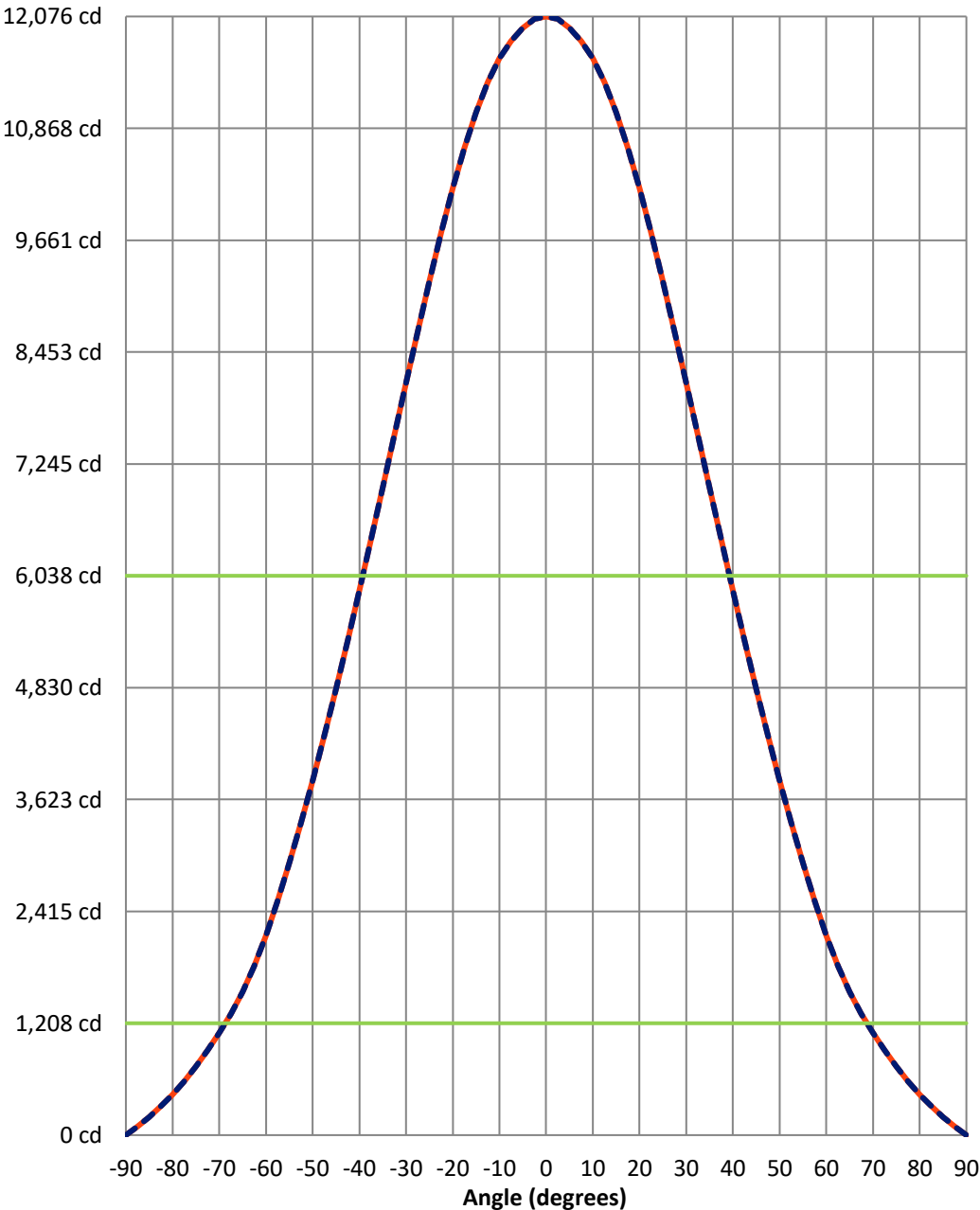


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 9407.8
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 15404.9
Efficiency: 70.9%

Spill:
Lumens: 6337.6
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°	92.9	92.9	92.9	92.9	92.9	92.9	92.9	88.4	88.4	86.1	83.9
85°	195.0	195.0	195.0	195.0	195.0	190.4	188.2	185.9	183.6	179.1	176.8
82.5°	312.8	312.8	312.8	312.8	308.3	303.8	301.5	297.0	292.4	285.6	278.8
80°	437.5	437.5	437.5	437.5	430.7	426.2	419.4	414.8	408.0	399.0	389.9
77.5°	580.3	580.3	580.3	573.5	569.0	562.2	555.4	546.3	537.3	525.9	512.3
75°	741.3	741.3	741.3	732.2	725.4	718.6	707.3	695.9	682.3	666.5	648.3
72.5°	915.8	915.8	915.8	904.5	897.7	886.4	872.8	856.9	841.0	820.6	797.9
70°	1104.0	1104.0	1104.0	1090.4	1079.0	1067.7	1049.6	1031.4	1008.8	986.1	958.9
67.5°	1308.0	1308.0	1308.0	1292.1	1278.5	1262.7	1242.3	1219.6	1192.4	1160.6	1128.9
65°	1546.0	1546.0	1536.9	1523.3	1507.5	1484.8	1459.9	1428.1	1394.1	1353.3	1310.3
62.5°	1827.1	1827.1	1813.5	1797.6	1777.2	1747.8	1713.8	1673.0	1625.4	1573.2	1521.1
60°	2153.5	2153.5	2137.7	2117.3	2087.8	2051.5	2006.2	1954.1	1895.1	1829.4	1765.9
57.5°	2529.8	2529.8	2509.4	2482.2	2446.0	2400.6	2344.0	2278.2	2203.4	2121.8	2042.5
55°	2937.9	2937.9	2913.0	2881.2	2838.1	2783.7	2715.7	2638.7	2548.0	2455.0	2353.0
52.5°	3370.9	3370.9	3341.4	3305.1	3255.3	3191.8	3114.7	3024.0	2919.8	2810.9	2690.8
50°	3826.5	3826.5	3792.5	3751.7	3695.0	3620.2	3531.8	3427.5	3311.9	3185.0	3046.7
47.5°	4313.9	4313.9	4275.3	4227.7	4159.7	4073.6	3969.3	3849.2	3717.7	3574.9	3418.5
45°	4814.9	4814.9	4771.8	4717.4	4642.6	4545.1	4429.5	4313.9	4146.1	3980.7	3799.3
42.5°	5336.3	5336.3	5286.4	5225.2	5139.0	5032.5	4901.0	4751.4	4585.9	4400.0	4202.8
40°	5878.0	5878.0	5821.4	5751.1	5655.9	5533.5	5386.1	5218.4	5032.5	4826.2	4608.6
37.5°	6431.2	6431.2	6367.7	6290.6	6184.1	6048.1	5882.6	5696.7	5488.1	5259.2	5018.9
35°	6988.8	6988.8	6918.5	6834.7	6716.8	6567.2	6388.1	6181.8	5950.6	5701.2	5431.5
32.5°	7557.8	7557.8	7480.7	7385.5	7251.8	7086.3	6889.1	6664.6	6431.2	6141.0	5846.3
30°	8120.0	8120.0	8036.1	7931.8	7789.0	7607.7	7392.3	7145.2	6870.9	6574.0	6256.6
27.5°	8673.1	8650.4	8580.2	8469.1	8312.7	8120.0	7886.5	7619.0	7322.0	6995.6	6655.6
25°	9217.2	9192.2	9115.2	8992.7	8825.0	8614.2	8362.5	8076.9	7757.3	7412.7	7041.0
22.5°	9738.5	9711.3	9629.7	9498.3	9319.2	9090.2	8820.5	8514.4	8174.4	7804.9	7412.7
20°	10221.4	10191.9	10108.1	9969.8	9783.9	9541.3	9255.7	8927.0	8564.3	8174.4	7757.3
17.5°	10656.6	10627.2	10538.8	10395.9	10221.4	9951.6	9656.9	9310.1	8927.0	8514.4	8076.9
15°	11039.7	11008.0	10917.3	10774.5	10575.0	10321.1	10010.6	9656.9	9255.7	8820.5	8362.5
12.5°	11366.2	11334.4	11241.5	11098.7	10892.4	10638.5	10321.1	9951.6	9541.3	9090.2	8614.2
10°	11624.6	11592.9	11504.5	11368.4	11155.4	10892.4	10575.0	10221.4	9783.9	9319.2	8825.0
7.5°	11810.5	11781.0	11699.4	11563.4	11368.4	11098.7	10774.5	10395.9	9969.8	9498.3	8992.7
5°	11951.0	11917.0	11835.4	11699.4	11504.5	11241.5	10917.3	10538.8	10108.1	9629.7	9115.2
2.5°	12048.5	12007.7	11917.0	11781.0	11592.9	11334.4	11008.0	10627.2	10191.9	9711.3	9192.2
0°	12075.7	12048.5	11951.0	11810.5	11624.6	11366.2	11039.7	10656.6	10221.4	9738.5	9217.2

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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°	81.6	81.6	79.3	77.1	74.8	70.3	68.0	65.7	63.5	58.9	56.7
85°	172.3	167.7	163.2	158.7	151.9	147.3	140.5	136.0	129.2	122.4	115.6
82.5°	272.0	265.2	256.2	249.4	240.3	229.0	219.9	208.6	197.2	188.2	176.8
80°	380.8	369.5	358.2	346.8	333.2	319.6	306.0	292.4	276.6	260.7	244.8
77.5°	498.7	482.8	467.0	448.8	433.0	414.8	396.7	378.6	358.2	337.8	317.4
75°	630.2	609.8	587.1	564.5	544.1	519.1	494.2	469.2	442.0	417.1	389.9
72.5°	773.0	748.1	720.9	693.7	664.2	632.5	600.7	566.7	535.0	503.2	469.2
70°	927.2	897.7	863.7	829.7	793.4	754.9	716.3	675.5	634.7	593.9	553.1
67.5°	1092.6	1056.4	1015.6	974.8	929.4	884.1	838.7	791.1	741.3	691.4	643.8
65°	1269.5	1224.1	1176.5	1124.4	1072.2	1020.1	965.7	909.0	852.3	793.4	741.3
62.5°	1466.7	1410.0	1348.8	1285.3	1226.4	1162.9	1104.0	1033.7	965.7	900.0	834.2
60°	1695.6	1620.8	1546.0	1466.7	1391.9	1310.3	1237.7	1160.6	1083.6	1008.8	931.7
57.5°	1951.8	1856.6	1765.9	1670.7	1571.0	1480.3	1387.3	1294.4	1208.3	1119.8	1036.0
55°	2242.0	2126.3	2013.0	1895.1	1779.5	1666.2	1548.3	1444.0	1337.5	1237.7	1140.2
52.5°	2559.3	2427.8	2287.3	2153.5	2006.2	1865.6	1734.2	1602.7	1478.0	1357.9	1246.8
50°	2899.3	2745.2	2584.3	2421.0	2253.3	2087.8	1929.1	1775.0	1629.9	1489.3	1357.9
47.5°	3253.0	3078.4	2894.8	2708.9	2529.8	2328.1	2137.7	1963.1	1788.6	1629.9	1478.0
45°	3615.7	3418.5	3216.7	3005.9	2795.1	2577.5	2366.6	2153.5	1963.1	1775.0	1602.7
42.5°	3989.7	3767.6	3543.1	3309.7	3076.2	2838.1	2600.1	2366.6	2137.7	1929.1	1734.2
40°	4375.1	4130.3	3874.1	3620.2	3370.9	3098.8	2838.1	2577.5	2328.1	2087.8	1865.6
37.5°	4760.5	4493.0	4216.4	3930.8	3645.2	3370.9	3076.2	2795.1	2529.8	2253.3	2006.2
35°	5148.1	4853.4	4554.2	4243.6	3930.8	3620.2	3309.7	3005.9	2708.9	2421.0	2153.5
32.5°	5538.0	5216.1	4885.1	4554.2	4216.4	3874.1	3543.1	3216.7	2894.8	2584.3	2287.3
30°	5921.1	5572.0	5216.1	4853.4	4493.0	4130.3	3767.6	3418.5	3078.4	2745.2	2427.8
27.5°	6295.1	5921.1	5538.0	5148.1	4760.5	4375.1	3989.7	3615.7	3253.0	2899.3	2559.3
25°	6655.6	6256.6	5846.3	5431.5	5018.9	4608.6	4202.8	3799.3	3418.5	3046.7	2690.8
22.5°	6995.6	6574.0	6141.0	5701.2	5259.2	4826.2	4400.0	3980.7	3574.9	3185.0	2810.9
20°	7322.0	6870.9	6431.2	5950.6	5488.1	5032.5	4585.9	4146.1	3717.7	3311.9	2919.8
17.5°	7619.0	7145.2	6664.6	6181.8	5696.7	5218.4	4751.4	4313.9	3849.2	3427.5	3024.0
15°	7886.5	7392.3	6889.1	6388.1	5882.6	5386.1	4901.0	4429.5	3969.3	3531.8	3114.7
12.5°	8120.0	7607.7	7086.3	6567.2	6048.1	5533.5	5032.5	4545.1	4073.6	3620.2	3191.8
10°	8312.7	7789.0	7251.8	6716.8	6184.1	5655.9	5139.0	4642.6	4159.7	3695.0	3255.3
7.5°	8469.1	7931.8	7385.5	6834.7	6290.6	5751.1	5225.2	4717.4	4227.7	3751.7	3305.1
5°	8580.2	8036.1	7480.7	6918.5	6367.7	5821.4	5286.4	4771.8	4275.3	3792.5	3341.4
2.5°	8650.4	8120.0	7557.8	6988.8	6431.2	5878.0	5336.3	4814.9	4313.9	3826.5	3370.9
0°	8673.1	8120.0	7557.8	6988.8	6431.2	5878.0	5336.3	4814.9	4313.9	3826.5	3370.9

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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°	54.4	49.9	45.3	43.1	38.5	36.3	31.7	27.2	24.9	20.4	15.9
85°	108.8	99.7	92.9	86.1	79.3	70.3	63.5	56.7	47.6	40.8	31.7
82.5°	165.5	154.1	142.8	131.5	120.1	108.8	95.2	83.9	72.5	61.2	47.6
80°	229.0	210.8	195.0	179.1	163.2	147.3	129.2	113.3	95.2	79.3	63.5
77.5°	294.7	274.3	251.6	229.0	206.3	185.9	163.2	142.8	122.4	99.7	79.3
75°	365.0	337.8	312.8	283.4	256.2	226.7	199.5	172.3	147.3	122.4	95.2
72.5°	437.5	403.5	369.5	337.8	303.8	269.8	238.0	204.0	172.3	142.8	113.3
70°	512.3	471.5	430.7	392.2	353.6	312.8	276.6	238.0	199.5	163.2	129.2
67.5°	591.7	544.1	496.4	446.6	403.5	358.2	312.8	269.8	226.7	185.9	147.3
65°	677.8	621.1	562.2	510.0	453.4	403.5	353.6	303.8	256.2	206.3	163.2
62.5°	766.2	700.5	634.7	569.0	510.0	446.6	392.2	337.8	283.4	229.0	179.1
60°	856.9	782.1	707.3	634.7	562.2	496.4	430.7	369.5	312.8	251.6	195.0
57.5°	949.8	866.0	782.1	700.5	621.1	544.1	471.5	403.5	337.8	274.3	210.8
55°	1045.0	949.8	856.9	766.2	677.8	591.7	512.3	437.5	365.0	294.7	229.0
52.5°	1140.2	1036.0	931.7	834.2	741.3	643.8	553.1	469.2	389.9	317.4	244.8
50°	1237.7	1119.8	1008.8	900.0	793.4	691.4	593.9	503.2	417.1	337.8	260.7
47.5°	1337.5	1208.3	1083.6	965.7	852.3	741.3	634.7	535.0	442.0	358.2	276.6
45°	1444.0	1294.4	1160.6	1033.7	909.0	791.1	675.5	566.7	469.2	378.6	292.4
42.5°	1548.3	1387.3	1237.7	1104.0	965.7	838.7	716.3	600.7	494.2	396.7	306.0
40°	1666.2	1480.3	1310.3	1162.9	1020.1	884.1	754.9	632.5	519.1	414.8	319.6
37.5°	1779.5	1571.0	1391.9	1226.4	1072.2	929.4	793.4	664.2	544.1	433.0	333.2
35°	1895.1	1670.7	1466.7	1285.3	1124.4	974.8	829.7	693.7	564.5	448.8	346.8
32.5°	2013.0	1765.9	1546.0	1348.8	1176.5	1015.6	863.7	720.9	587.1	467.0	358.2
30°	2126.3	1856.6	1620.8	1410.0	1224.1	1056.4	897.7	748.1	609.8	482.8	369.5
27.5°	2242.0	1951.8	1695.6	1466.7	1269.5	1092.6	927.2	773.0	630.2	498.7	380.8
25°	2353.0	2042.5	1765.9	1521.1	1310.3	1128.9	958.9	797.9	648.3	512.3	389.9
22.5°	2455.0	2121.8	1829.4	1573.2	1353.3	1160.6	986.1	820.6	666.5	525.9	399.0
20°	2548.0	2203.4	1895.1	1625.4	1394.1	1192.4	1008.8	841.0	682.3	537.3	408.0
17.5°	2638.7	2278.2	1954.1	1673.0	1428.1	1219.6	1031.4	856.9	695.9	546.3	414.8
15°	2715.7	2344.0	2006.2	1713.8	1459.9	1242.3	1049.6	872.8	707.3	555.4	419.4
12.5°	2783.7	2400.6	2051.5	1747.8	1484.8	1262.7	1067.7	886.4	718.6	562.2	426.2
10°	2838.1	2446.0	2087.8	1777.2	1507.5	1278.5	1079.0	897.7	725.4	569.0	430.7
7.5°	2881.2	2482.2	2117.3	1797.6	1523.3	1292.1	1090.4	904.5	732.2	573.5	437.5
5°	2913.0	2509.4	2137.7	1813.5	1536.9	1308.0	1104.0	915.8	741.3	580.3	437.5
2.5°	2937.9	2529.8	2153.5	1827.1	1546.0	1308.0	1104.0	915.8	741.3	580.3	437.5
0°	2937.9	2529.8	2153.5	1827.1	1546.0	1308.0	1104.0	915.8	741.3	580.3	437.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.3	9.1	4.5	0.0
85°	24.9	15.9	9.1	0.0
82.5°	36.3	24.9	11.3	0.0
80°	47.6	31.7	15.9	0.0
77.5°	61.2	40.8	20.4	0.0
75°	72.5	47.6	24.9	0.0
72.5°	83.9	56.7	27.2	0.0
70°	95.2	63.5	31.7	0.0
67.5°	108.8	70.3	36.3	0.0
65°	120.1	79.3	38.5	0.0
62.5°	131.5	86.1	43.1	0.0
60°	142.8	92.9	45.3	0.0
57.5°	154.1	99.7	49.9	0.0
55°	165.5	108.8	54.4	0.0
52.5°	176.8	115.6	56.7	0.0
50°	188.2	122.4	58.9	0.0
47.5°	197.2	129.2	63.5	0.0
45°	208.6	136.0	65.7	0.0
42.5°	219.9	140.5	68.0	0.0
40°	229.0	147.3	70.3	0.0
37.5°	240.3	151.9	74.8	0.0
35°	249.4	158.7	77.1	0.0
32.5°	256.2	163.2	79.3	0.0
30°	265.2	167.7	81.6	0.0
27.5°	272.0	172.3	81.6	0.0
25°	278.8	176.8	83.9	0.0
22.5°	285.6	179.1	86.1	0.0
20°	292.4	183.6	88.4	0.0
17.5°	297.0	185.9	88.4	0.0
15°	301.5	188.2	92.9	0.0
12.5°	303.8	190.4	92.9	0.0
10°	308.3	195.0	92.9	0.0
7.5°	312.8	195.0	92.9	0.0
5°	312.8	195.0	92.9	0.0
2.5°	312.8	195.0	92.9	0.0
0°	312.8	195.0	92.9	0.0

(END OF REPORT)