

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: P624031

Luminaire Tested: **IFLD-M-SA4C-827-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624031
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

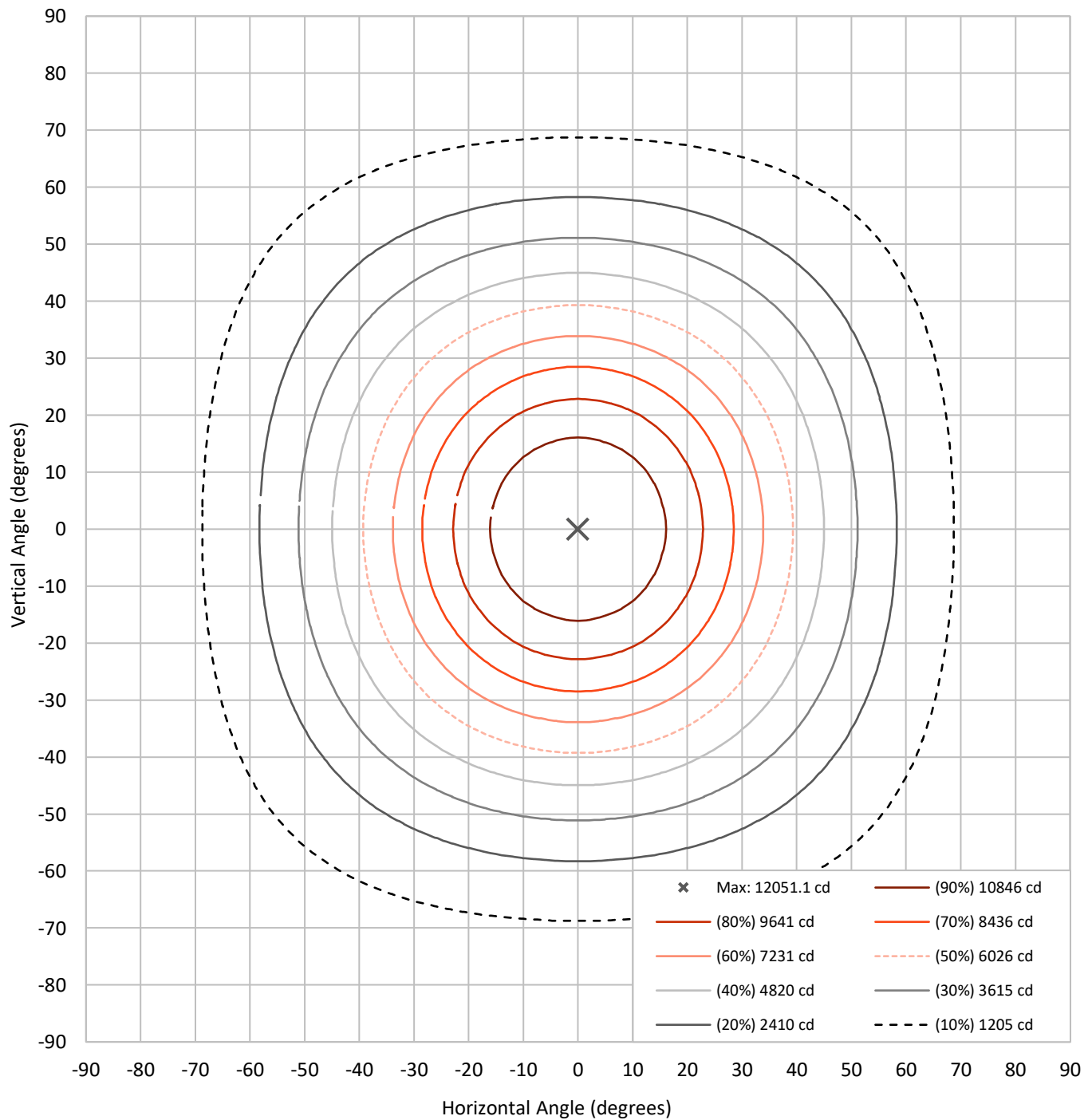
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21698.3 lumens	Max Intensity:	12051.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	99.5 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:	9388.6 lumens	Field Lumens:	15373.6 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		



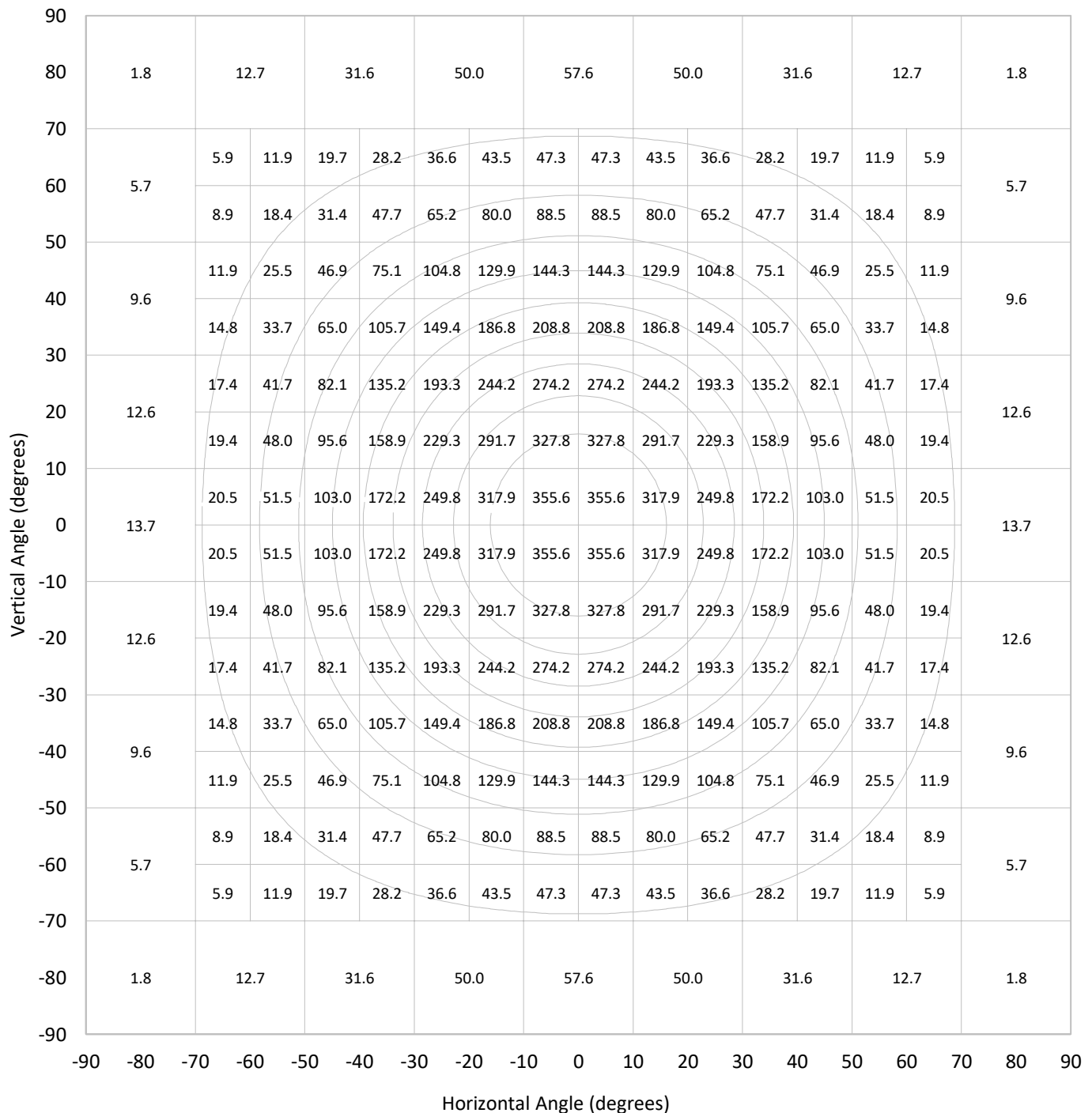
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Iso-Candela Plot



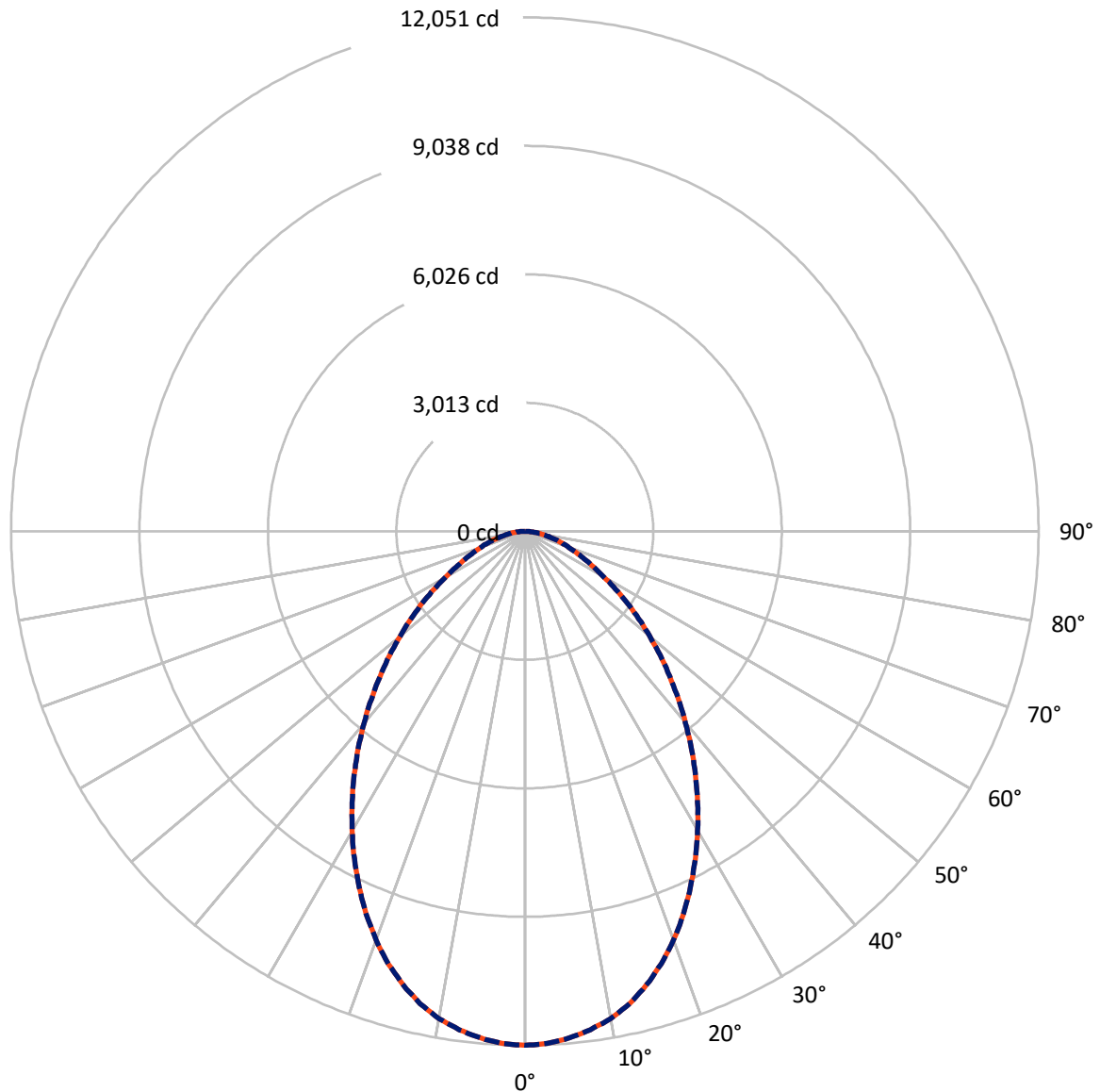
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Lumen Table



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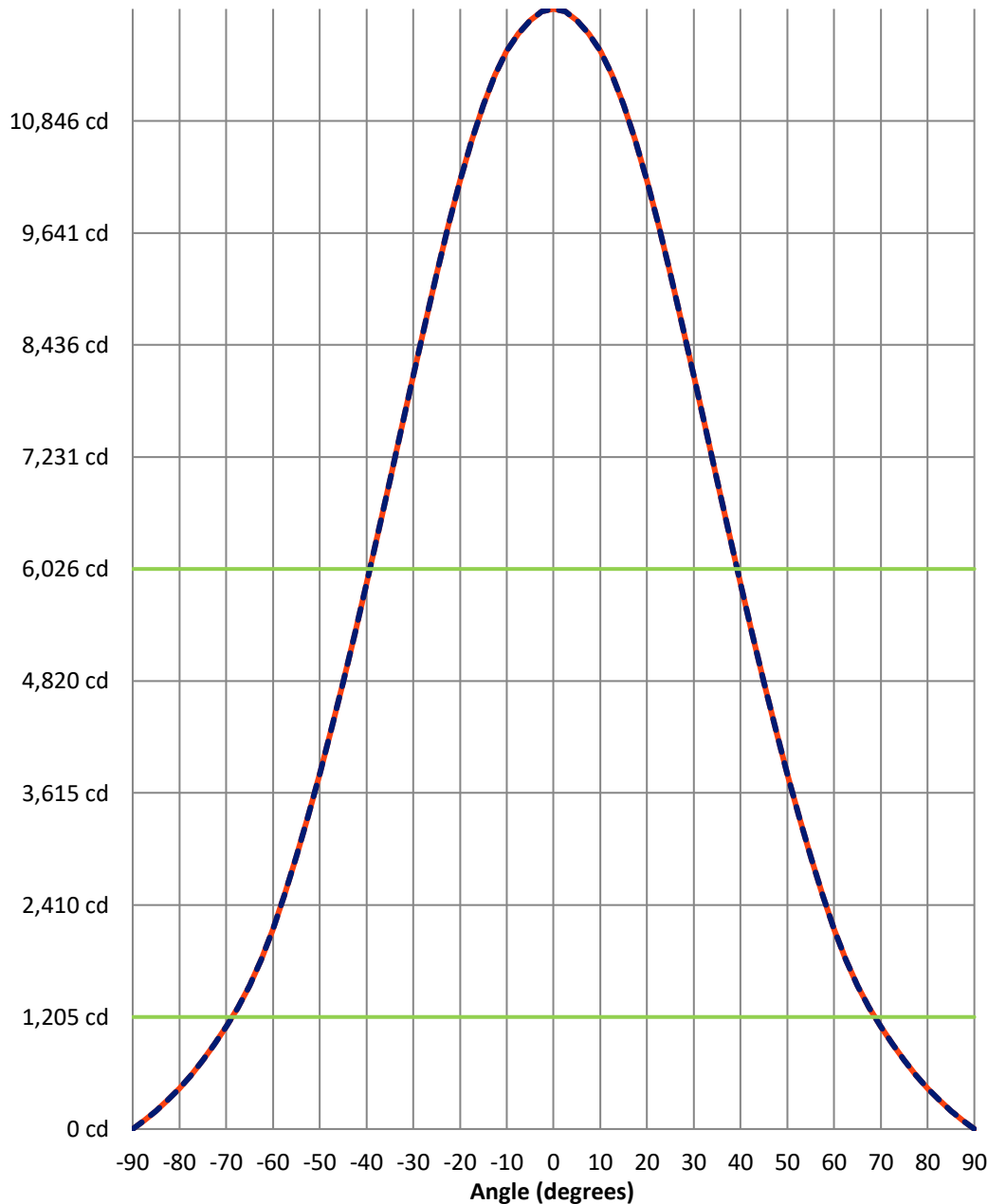
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



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

Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 9388.6
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 15373.6
Efficiency: 70.9%

Spill:
Lumens: 6324.7
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°	92.8	92.8	92.8	92.8	92.8	92.8	92.8	88.2	88.2	86.0	83.7
85°	194.6	194.6	194.6	194.6	194.6	190.0	187.8	185.5	183.2	178.7	176.5
82.5°	312.2	312.2	312.2	312.2	307.7	303.1	300.9	296.4	291.8	285.0	278.3
80°	436.6	436.6	436.6	436.6	429.8	425.3	418.5	414.0	407.2	398.2	389.1
77.5°	579.1	579.1	579.1	572.4	567.8	561.0	554.3	545.2	536.2	524.8	511.3
75°	739.8	739.8	739.8	730.7	723.9	717.1	705.8	694.5	680.9	665.1	647.0
72.5°	914.0	914.0	914.0	902.6	895.9	884.5	871.0	855.1	839.3	818.9	796.3
70°	1101.7	1101.7	1101.7	1088.2	1076.8	1065.5	1047.4	1029.3	1006.7	984.1	956.9
67.5°	1305.3	1305.3	1305.3	1289.5	1275.9	1260.1	1239.7	1217.1	1190.0	1158.3	1126.6
65°	1542.9	1542.9	1533.8	1520.2	1504.4	1481.8	1456.9	1425.2	1391.3	1350.6	1307.6
62.5°	1823.4	1823.4	1809.8	1794.0	1773.6	1744.2	1710.3	1669.6	1622.0	1570.0	1518.0
60°	2149.2	2149.2	2133.3	2113.0	2083.6	2047.4	2002.1	1950.1	1891.3	1825.7	1762.3
57.5°	2524.7	2524.7	2504.3	2477.2	2441.0	2395.7	2339.2	2273.6	2198.9	2117.5	2038.3
55°	2931.9	2931.9	2907.0	2875.3	2832.4	2778.1	2710.2	2633.3	2542.8	2450.0	2348.2
52.5°	3364.0	3364.0	3334.6	3298.4	3248.6	3185.3	3108.4	3017.9	2913.8	2805.2	2685.3
50°	3818.7	3818.7	3784.8	3744.1	3687.5	3612.8	3524.6	3420.6	3305.2	3178.5	3040.5
47.5°	4305.1	4305.1	4266.6	4219.1	4151.3	4065.3	3961.2	3841.3	3710.1	3567.6	3411.5
45°	4805.1	4805.1	4762.1	4707.8	4633.1	4535.9	4420.5	4305.1	4137.7	3972.5	3791.6
42.5°	5325.4	5325.4	5275.6	5214.5	5128.6	5022.2	4891.0	4741.7	4576.6	4391.1	4194.3
40°	5866.1	5866.1	5809.5	5739.4	5644.4	5522.2	5375.2	5207.7	5022.2	4816.4	4599.2
37.5°	6418.1	6418.1	6354.7	6277.8	6171.5	6035.7	5870.6	5685.1	5477.0	5248.5	5008.7
35°	6974.6	6974.6	6904.5	6820.7	6703.1	6553.8	6375.1	6169.2	5938.5	5689.6	5420.4
32.5°	7542.4	7542.4	7465.5	7370.5	7237.0	7071.9	6875.0	6651.1	6418.1	6128.5	5834.4
30°	8103.5	8103.5	8019.8	7915.7	7773.2	7592.2	7377.3	7130.7	6856.9	6560.6	6243.9
27.5°	8655.4	8632.8	8562.7	8451.8	8295.7	8103.5	7870.4	7603.5	7307.1	6981.4	6642.0
25°	9198.4	9173.5	9096.6	8974.4	8807.0	8596.6	8345.5	8060.5	7741.5	7397.6	7026.6
22.5°	9718.7	9691.6	9610.1	9478.9	9300.2	9071.7	8802.5	8497.1	8157.7	7789.0	7397.6
20°	10200.6	10171.2	10087.5	9949.5	9764.0	9521.9	9236.9	8908.8	8546.9	8157.7	7741.5
17.5°	10634.9	10605.5	10517.3	10374.8	10200.6	9931.4	9637.3	9291.1	8908.8	8497.1	8060.5
15°	11017.3	10985.6	10895.1	10752.6	10553.5	10300.1	9990.2	9637.3	9236.9	8802.5	8345.5
12.5°	11343.0	11311.4	11218.6	11076.1	10870.2	10616.8	10300.1	9931.4	9521.9	9071.7	8596.6
10°	11600.9	11569.3	11481.0	11345.3	11132.6	10870.2	10553.5	10200.6	9764.0	9300.2	8807.0
7.5°	11786.4	11757.0	11675.6	11539.8	11345.3	11076.1	10752.6	10374.8	9949.5	9478.9	8974.4
5°	11926.7	11892.8	11811.3	11675.6	11481.0	11218.6	10895.1	10517.3	10087.5	9610.1	9096.6
2.5°	12024.0	11983.2	11892.8	11757.0	11569.3	11311.4	10985.6	10605.5	10171.2	9691.6	9173.5
0°	12051.1	12024.0	11926.7	11786.4	11600.9	11343.0	11017.3	10634.9	10200.6	9718.7	9198.4

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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°	81.4	81.4	79.2	76.9	74.7	70.1	67.9	65.6	63.3	58.8	56.6
85°	171.9	167.4	162.9	158.4	151.6	147.0	140.3	135.7	128.9	122.2	115.4
82.5°	271.5	264.7	255.6	248.8	239.8	228.5	219.4	208.1	196.8	187.8	176.5
80°	380.1	368.8	357.4	346.1	332.6	319.0	305.4	291.8	276.0	260.2	244.3
77.5°	497.7	481.9	466.0	447.9	432.1	414.0	395.9	377.8	357.4	337.1	316.7
75°	628.9	608.6	585.9	563.3	542.9	518.1	493.2	468.3	441.1	416.3	389.1
72.5°	771.4	746.5	719.4	692.3	662.8	631.2	599.5	565.6	533.9	502.2	468.3
70°	925.3	895.9	861.9	828.0	791.8	753.3	714.9	674.2	633.4	592.7	552.0
67.5°	1090.4	1054.2	1013.5	972.8	927.5	882.3	837.0	789.5	739.8	690.0	642.5
65°	1266.9	1221.6	1174.1	1122.1	1070.1	1018.0	963.7	907.2	850.6	791.8	739.8
62.5°	1463.7	1407.1	1346.1	1282.7	1223.9	1160.5	1101.7	1031.6	963.7	898.1	832.5
60°	1692.2	1617.5	1542.9	1463.7	1389.0	1307.6	1235.2	1158.3	1081.4	1006.7	929.8
57.5°	1947.8	1852.8	1762.3	1667.3	1567.8	1477.3	1384.5	1291.8	1205.8	1117.6	1033.9
55°	2237.4	2122.0	2008.9	1891.3	1775.9	1662.8	1545.1	1441.1	1334.7	1235.2	1137.9
52.5°	2554.1	2422.9	2282.6	2149.2	2002.1	1861.8	1730.6	1599.4	1475.0	1355.1	1244.2
50°	2893.4	2739.6	2579.0	2416.1	2248.7	2083.6	1925.2	1771.4	1626.6	1486.3	1355.1
47.5°	3246.4	3072.2	2888.9	2703.4	2524.7	2323.4	2133.3	1959.1	1784.9	1626.6	1475.0
45°	3608.3	3411.5	3210.2	2999.8	2789.4	2572.2	2361.8	2149.2	1959.1	1771.4	1599.4
42.5°	3981.6	3759.9	3535.9	3302.9	3069.9	2832.4	2594.8	2361.8	2133.3	1925.2	1730.6
40°	4366.2	4121.9	3866.2	3612.8	3364.0	3092.5	2832.4	2572.2	2323.4	2083.6	1861.8
37.5°	4750.8	4483.8	4207.8	3922.8	3637.7	3364.0	3069.9	2789.4	2524.7	2248.7	2002.1
35°	5137.6	4843.5	4544.9	4235.0	3922.8	3612.8	3302.9	2999.8	2703.4	2416.1	2149.2
32.5°	5526.7	5205.5	4875.2	4544.9	4207.8	3866.2	3535.9	3210.2	2888.9	2579.0	2282.6
30°	5909.1	5560.7	5205.5	4843.5	4483.8	4121.9	3759.9	3411.5	3072.2	2739.6	2422.9
27.5°	6282.3	5909.1	5526.7	5137.6	4750.8	4366.2	3981.6	3608.3	3246.4	2893.4	2554.1
25°	6642.0	6243.9	5834.4	5420.4	5008.7	4599.2	4194.3	3791.6	3411.5	3040.5	2685.3
22.5°	6981.4	6560.6	6128.5	5689.6	5248.5	4816.4	4391.1	3972.5	3567.6	3178.5	2805.2
20°	7307.1	6856.9	6418.1	5938.5	5477.0	5022.2	4576.6	4137.7	3710.1	3305.2	2913.8
17.5°	7603.5	7130.7	6651.1	6169.2	5685.1	5207.7	4741.7	4305.1	3841.3	3420.6	3017.9
15°	7870.4	7377.3	6875.0	6375.1	5870.6	5375.2	4891.0	4420.5	3961.2	3524.6	3108.4
12.5°	8103.5	7592.2	7071.9	6553.8	6035.7	5522.2	5022.2	4535.9	4065.3	3612.8	3185.3
10°	8295.7	7773.2	7237.0	6703.1	6171.5	5644.4	5128.6	4633.1	4151.3	3687.5	3248.6
7.5°	8451.8	7915.7	7370.5	6820.7	6277.8	5739.4	5214.5	4707.8	4219.1	3744.1	3298.4
5°	8562.7	8019.8	7465.5	6904.5	6354.7	5809.5	5275.6	4762.1	4266.6	3784.8	3334.6
2.5°	8632.8	8103.5	7542.4	6974.6	6418.1	5866.1	5325.4	4805.1	4305.1	3818.7	3364.0
0°	8655.4	8103.5	7542.4	6974.6	6418.1	5866.1	5325.4	4805.1	4305.1	3818.7	3364.0

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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°	54.3	49.8	45.2	43.0	38.5	36.2	31.7	27.1	24.9	20.4	15.8
85°	108.6	99.5	92.8	86.0	79.2	70.1	63.3	56.6	47.5	40.7	31.7
82.5°	165.1	153.8	142.5	131.2	119.9	108.6	95.0	83.7	72.4	61.1	47.5
80°	228.5	210.4	194.6	178.7	162.9	147.0	128.9	113.1	95.0	79.2	63.3
77.5°	294.1	273.7	251.1	228.5	205.9	185.5	162.9	142.5	122.2	99.5	79.2
75°	364.2	337.1	312.2	282.8	255.6	226.2	199.1	171.9	147.0	122.2	95.0
72.5°	436.6	402.7	368.8	337.1	303.1	269.2	237.5	203.6	171.9	142.5	113.1
70°	511.3	470.6	429.8	391.4	352.9	312.2	276.0	237.5	199.1	162.9	128.9
67.5°	590.5	542.9	495.4	445.7	402.7	357.4	312.2	269.2	226.2	185.5	147.0
65°	676.4	619.9	561.0	509.0	452.5	402.7	352.9	303.1	255.6	205.9	162.9
62.5°	764.6	699.0	633.4	567.8	509.0	445.7	391.4	337.1	282.8	228.5	178.7
60°	855.1	780.5	705.8	633.4	561.0	495.4	429.8	368.8	312.2	251.1	194.6
57.5°	947.9	864.2	780.5	699.0	619.9	542.9	470.6	402.7	337.1	273.7	210.4
55°	1042.9	947.9	855.1	764.6	676.4	590.5	511.3	436.6	364.2	294.1	228.5
52.5°	1137.9	1033.9	929.8	832.5	739.8	642.5	552.0	468.3	389.1	316.7	244.3
50°	1235.2	1117.6	1006.7	898.1	791.8	690.0	592.7	502.2	416.3	337.1	260.2
47.5°	1334.7	1205.8	1081.4	963.7	850.6	739.8	633.4	533.9	441.1	357.4	276.0
45°	1441.1	1291.8	1158.3	1031.6	907.2	789.5	674.2	565.6	468.3	377.8	291.8
42.5°	1545.1	1384.5	1235.2	1101.7	963.7	837.0	714.9	599.5	493.2	395.9	305.4
40°	1662.8	1477.3	1307.6	1160.5	1018.0	882.3	753.3	631.2	518.1	414.0	319.0
37.5°	1775.9	1567.8	1389.0	1223.9	1070.1	927.5	791.8	662.8	542.9	432.1	332.6
35°	1891.3	1667.3	1463.7	1282.7	1122.1	972.8	828.0	692.3	563.3	447.9	346.1
32.5°	2008.9	1762.3	1542.9	1346.1	1174.1	1013.5	861.9	719.4	585.9	466.0	357.4
30°	2122.0	1852.8	1617.5	1407.1	1221.6	1054.2	895.9	746.5	608.6	481.9	368.8
27.5°	2237.4	1947.8	1692.2	1463.7	1266.9	1090.4	925.3	771.4	628.9	497.7	380.1
25°	2348.2	2038.3	1762.3	1518.0	1307.6	1126.6	956.9	796.3	647.0	511.3	389.1
22.5°	2450.0	2117.5	1825.7	1570.0	1350.6	1158.3	984.1	818.9	665.1	524.8	398.2
20°	2542.8	2198.9	1891.3	1622.0	1391.3	1190.0	1006.7	839.3	680.9	536.2	407.2
17.5°	2633.3	2273.6	1950.1	1669.6	1425.2	1217.1	1029.3	855.1	694.5	545.2	414.0
15°	2710.2	2339.2	2002.1	1710.3	1456.9	1239.7	1047.4	871.0	705.8	554.3	418.5
12.5°	2778.1	2395.7	2047.4	1744.2	1481.8	1260.1	1065.5	884.5	717.1	561.0	425.3
10°	2832.4	2441.0	2083.6	1773.6	1504.4	1275.9	1076.8	895.9	723.9	567.8	429.8
7.5°	2875.3	2477.2	2113.0	1794.0	1520.2	1289.5	1088.2	902.6	730.7	572.4	436.6
5°	2907.0	2504.3	2133.3	1809.8	1533.8	1305.3	1101.7	914.0	739.8	579.1	436.6
2.5°	2931.9	2524.7	2149.2	1823.4	1542.9	1305.3	1101.7	914.0	739.8	579.1	436.6
0°	2931.9	2524.7	2149.2	1823.4	1542.9	1305.3	1101.7	914.0	739.8	579.1	436.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.3	9.0	4.5	0.0
85°	24.9	15.8	9.0	0.0
82.5°	36.2	24.9	11.3	0.0
80°	47.5	31.7	15.8	0.0
77.5°	61.1	40.7	20.4	0.0
75°	72.4	47.5	24.9	0.0
72.5°	83.7	56.6	27.1	0.0
70°	95.0	63.3	31.7	0.0
67.5°	108.6	70.1	36.2	0.0
65°	119.9	79.2	38.5	0.0
62.5°	131.2	86.0	43.0	0.0
60°	142.5	92.8	45.2	0.0
57.5°	153.8	99.5	49.8	0.0
55°	165.1	108.6	54.3	0.0
52.5°	176.5	115.4	56.6	0.0
50°	187.8	122.2	58.8	0.0
47.5°	196.8	128.9	63.3	0.0
45°	208.1	135.7	65.6	0.0
42.5°	219.4	140.3	67.9	0.0
40°	228.5	147.0	70.1	0.0
37.5°	239.8	151.6	74.7	0.0
35°	248.8	158.4	76.9	0.0
32.5°	255.6	162.9	79.2	0.0
30°	264.7	167.4	81.4	0.0
27.5°	271.5	171.9	81.4	0.0
25°	278.3	176.5	83.7	0.0
22.5°	285.0	178.7	86.0	0.0
20°	291.8	183.2	88.2	0.0
17.5°	296.4	185.5	88.2	0.0
15°	300.9	187.8	92.8	0.0
12.5°	303.1	190.0	92.8	0.0
10°	307.7	194.6	92.8	0.0
7.5°	312.2	194.6	92.8	0.0
5°	312.2	194.6	92.8	0.0
2.5°	312.2	194.6	92.8	0.0
0°	312.2	194.6	92.8	0.0

(END OF REPORT)