

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: P623814

Luminaire Tested: **IFLD-S-SA2D-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623814
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

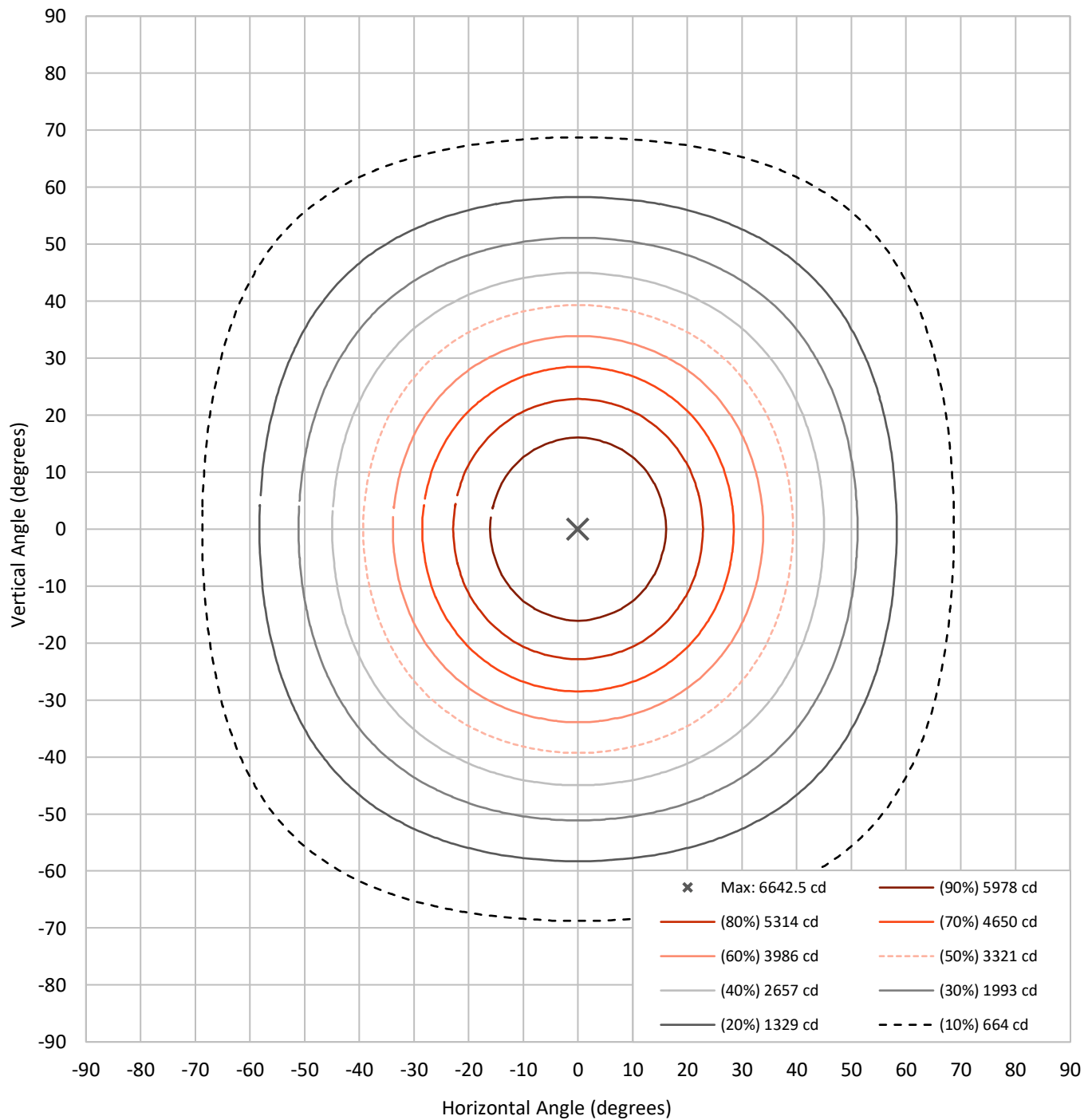
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11960 lumens	Max Intensity:	6642.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	96.5 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	5175 lumens	Field Lumens:	8473.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	123.9		
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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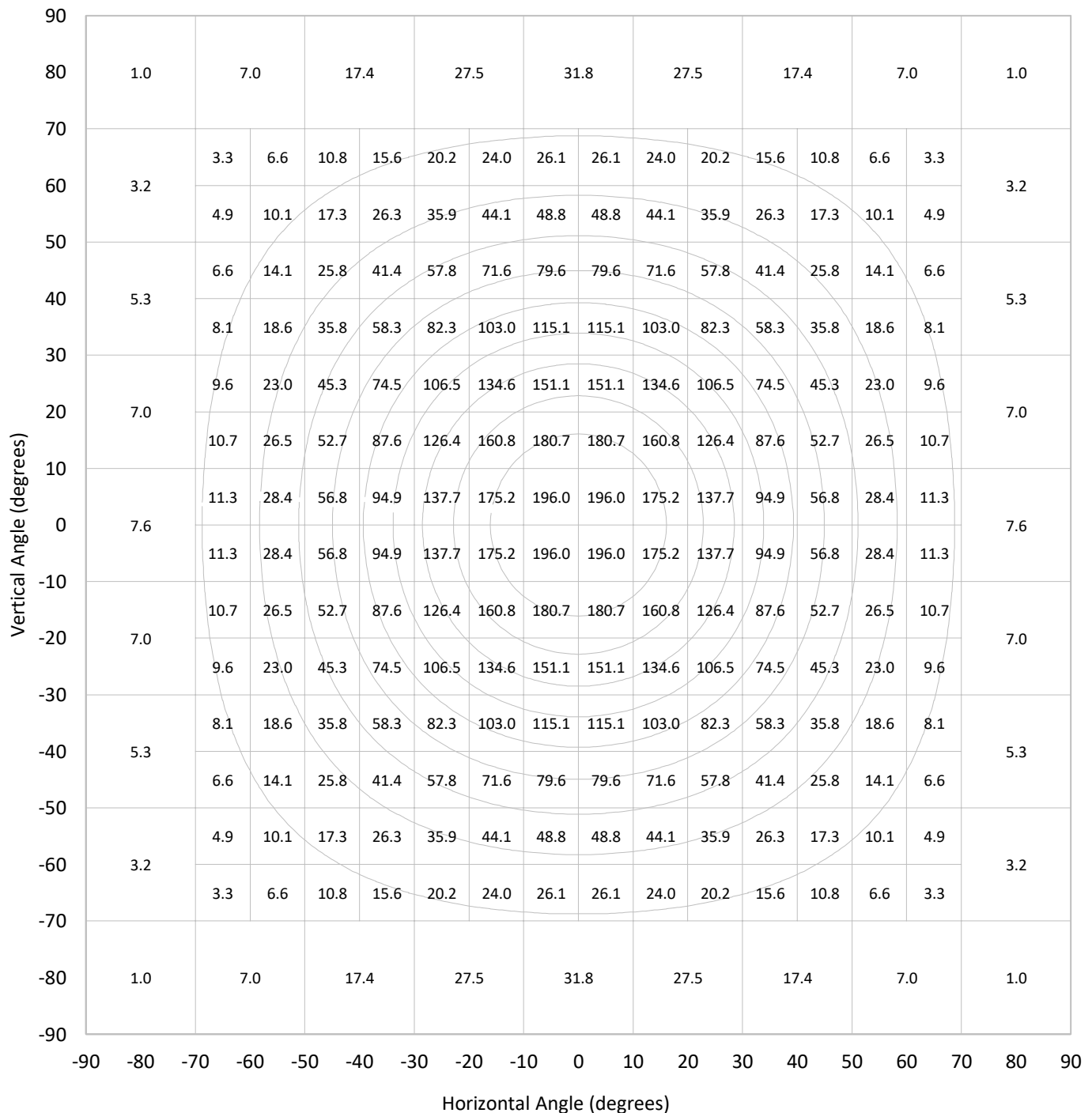
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Iso-Candela Plot



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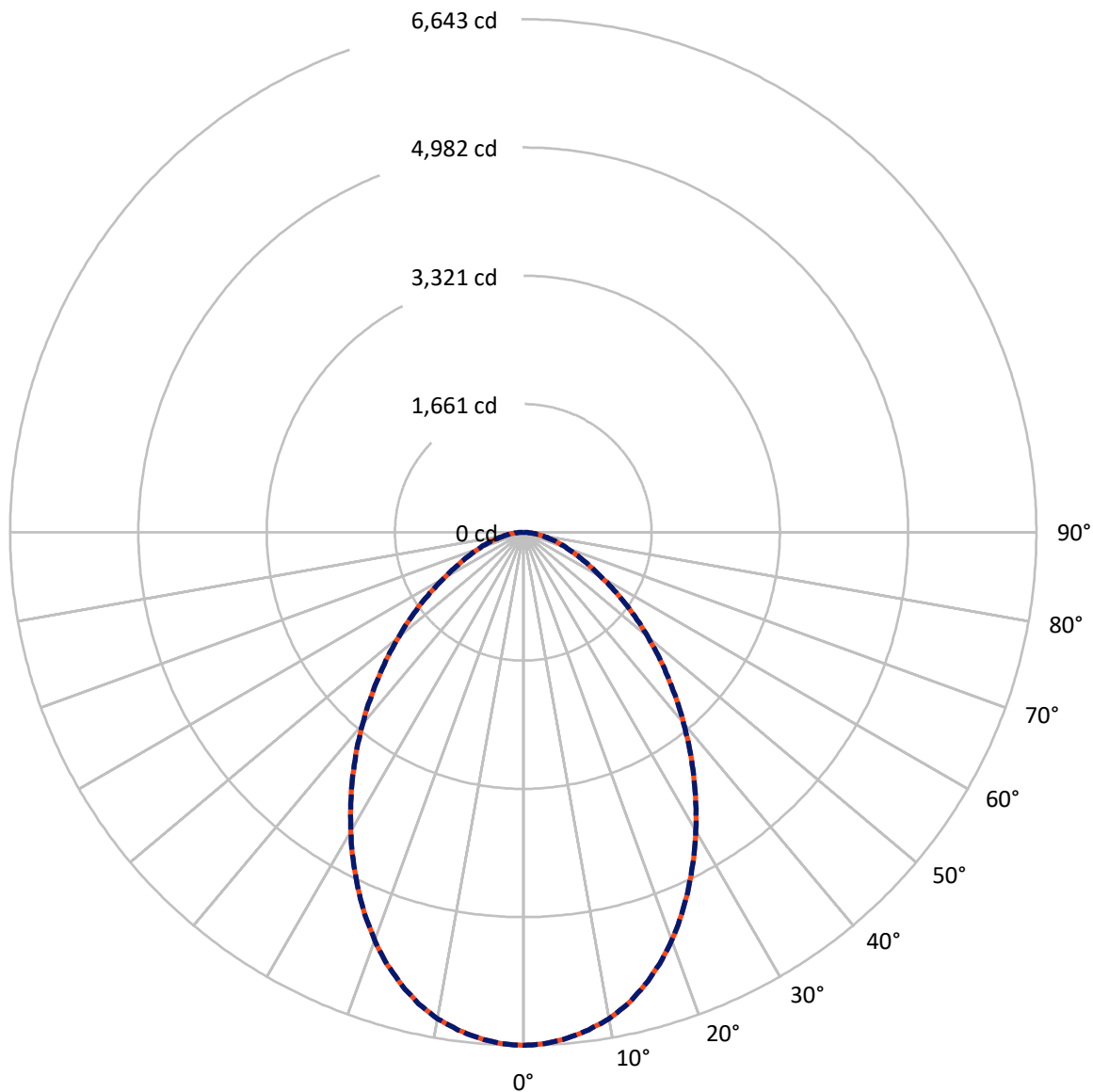
Lumen Table



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Luminous Intensity Polar Plot



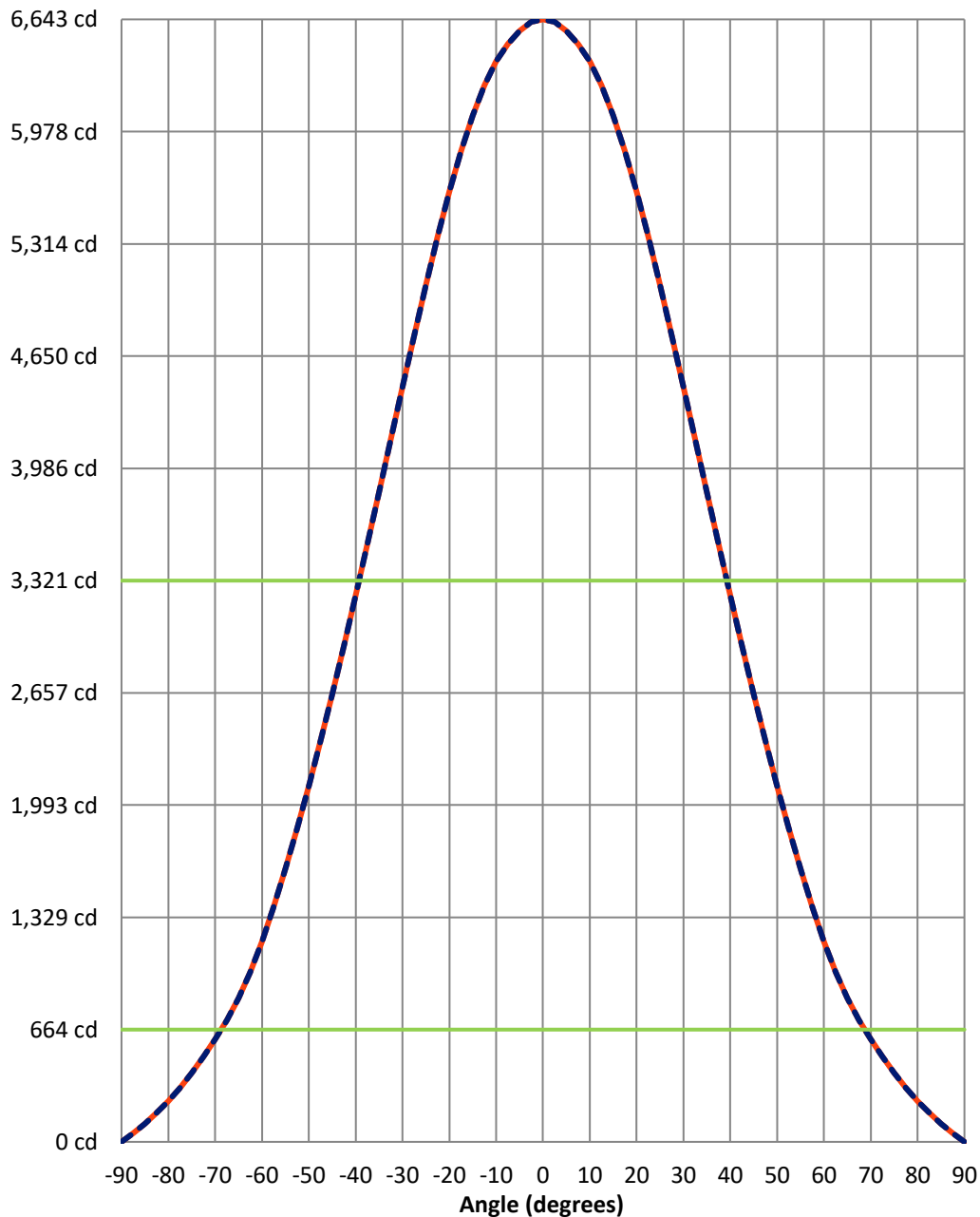
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 5175
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 8473.9
Efficiency: 70.9%

Spill:

Lumens: 3486.2
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°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	48.6	48.6	47.4	46.1
85°	107.2	107.2	107.2	107.2	107.2	104.7	103.5	102.3	101.0	98.5	97.3
82.5°	172.1	172.1	172.1	172.1	169.6	167.1	165.8	163.4	160.9	157.1	153.4
80°	240.7	240.7	240.7	240.7	236.9	234.4	230.7	228.2	224.5	219.5	214.5
77.5°	319.2	319.2	319.2	315.5	313.0	309.2	305.5	300.5	295.5	289.3	281.8
75°	407.8	407.8	407.8	402.8	399.0	395.3	389.1	382.8	375.3	366.6	356.6
72.5°	503.8	503.8	503.8	497.5	493.8	487.6	480.1	471.3	462.6	451.4	438.9
70°	607.3	607.3	607.3	599.8	593.6	587.3	577.3	567.4	554.9	542.4	527.5
67.5°	719.5	719.5	719.5	710.8	703.3	694.6	683.3	670.9	655.9	638.4	621.0
65°	850.4	850.4	845.4	838.0	829.2	816.8	803.0	785.6	766.9	744.4	720.7
62.5°	1005.0	1005.0	997.6	988.8	977.6	961.4	942.7	920.3	894.1	865.4	836.7
60°	1184.6	1184.6	1175.9	1164.7	1148.4	1128.5	1103.6	1074.9	1042.5	1006.3	971.4
57.5°	1391.6	1391.6	1380.4	1365.4	1345.5	1320.5	1289.4	1253.2	1212.0	1167.2	1123.5
55°	1616.1	1616.1	1602.3	1584.9	1561.2	1531.3	1493.9	1451.5	1401.6	1350.5	1294.3
52.5°	1854.2	1854.2	1838.0	1818.1	1790.6	1755.7	1713.3	1663.4	1606.1	1546.2	1480.1
50°	2104.9	2104.9	2086.2	2063.7	2032.5	1991.4	1942.8	1885.4	1821.8	1752.0	1675.9
47.5°	2373.0	2373.0	2351.8	2325.6	2288.2	2240.8	2183.4	2117.3	2045.0	1966.4	1880.4
45°	2648.5	2648.5	2624.8	2594.9	2553.8	2500.1	2436.6	2373.0	2280.7	2189.7	2089.9
42.5°	2935.3	2935.3	2907.9	2874.2	2826.8	2768.2	2695.9	2613.6	2522.6	2420.3	2311.9
40°	3233.4	3233.4	3202.2	3163.5	3111.2	3043.8	2962.8	2870.5	2768.2	2654.8	2535.1
37.5°	3537.6	3537.6	3502.7	3460.3	3401.7	3326.9	3235.8	3133.6	3018.9	2892.9	2760.8
35°	3844.4	3844.4	3805.7	3759.6	3694.7	3612.4	3513.9	3400.4	3273.3	3136.1	2987.7
32.5°	4157.3	4157.3	4115.0	4062.6	3989.0	3898.0	3789.5	3666.0	3537.6	3378.0	3215.9
30°	4466.6	4466.6	4420.5	4363.1	4284.5	4184.8	4066.3	3930.4	3779.5	3616.2	3441.6
27.5°	4770.9	4758.4	4719.7	4658.6	4572.6	4466.6	4338.2	4191.0	4027.7	3848.1	3661.1
25°	5070.1	5056.4	5014.0	4946.7	4854.4	4738.4	4600.0	4442.9	4267.1	4077.5	3873.0
22.5°	5356.9	5342.0	5297.1	5224.7	5126.2	5000.3	4851.9	4683.6	4496.5	4293.3	4077.5
20°	5622.5	5606.3	5560.2	5484.1	5381.9	5248.4	5091.3	4910.5	4711.0	4496.5	4267.1
17.5°	5861.9	5845.7	5797.1	5718.5	5622.5	5474.1	5312.0	5121.2	4910.5	4683.6	4442.9
15°	6072.7	6055.2	6005.3	5926.8	5817.0	5677.4	5506.6	5312.0	5091.3	4851.9	4600.0
12.5°	6252.2	6234.8	6183.7	6105.1	5991.6	5852.0	5677.4	5474.1	5248.4	5000.3	4738.4
10°	6394.4	6376.9	6328.3	6253.5	6136.3	5991.6	5817.0	5622.5	5381.9	5126.2	4854.4
7.5°	6496.6	6480.4	6435.5	6360.7	6253.5	6105.1	5926.8	5718.5	5484.1	5224.7	4946.7
5°	6573.9	6555.2	6510.4	6435.5	6328.3	6183.7	6005.3	5797.1	5560.2	5297.1	5014.0
2.5°	6627.6	6605.1	6555.2	6480.4	6376.9	6234.8	6055.2	5845.7	5606.3	5342.0	5056.4
0°	6642.5	6627.6	6573.9	6496.6	6394.4	6252.2	6072.7	5861.9	5622.5	5356.9	5070.1

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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°	44.9	44.9	43.6	42.4	41.1	38.7	37.4	36.2	34.9	32.4	31.2
85°	94.8	92.3	89.8	87.3	83.5	81.1	77.3	74.8	71.1	67.3	63.6
82.5°	149.6	145.9	140.9	137.2	132.2	125.9	121.0	114.7	108.5	103.5	97.3
80°	209.5	203.3	197.0	190.8	183.3	175.8	168.3	160.9	152.1	143.4	134.7
77.5°	274.3	265.6	256.9	246.9	238.2	228.2	218.2	208.2	197.0	185.8	174.6
75°	346.7	335.4	323.0	310.5	299.3	285.6	271.8	258.1	243.2	229.4	214.5
72.5°	425.2	411.5	396.5	381.6	365.4	347.9	330.4	311.7	294.3	276.8	258.1
70°	510.0	493.8	475.1	456.4	436.4	415.2	394.0	371.6	349.1	326.7	304.3
67.5°	601.0	581.1	558.6	536.2	511.3	486.3	461.4	435.2	407.8	380.3	354.1
65°	698.3	673.4	647.2	618.5	589.8	561.1	531.2	500.0	468.9	436.4	407.8
62.5°	806.8	775.6	741.9	707.0	674.6	639.7	607.3	568.6	531.2	495.0	458.9
60°	932.7	891.6	850.4	806.8	765.6	720.7	680.8	638.4	596.0	554.9	512.5
57.5°	1073.6	1021.3	971.4	919.0	864.1	814.3	763.1	712.0	664.6	616.0	569.9
55°	1233.2	1169.6	1107.3	1042.5	978.9	916.5	851.7	794.3	735.7	680.8	627.2
52.5°	1407.8	1335.5	1258.2	1184.6	1103.6	1026.2	953.9	881.6	813.0	746.9	685.8
50°	1594.9	1510.1	1421.5	1331.7	1239.5	1148.4	1061.2	976.4	896.6	819.2	746.9
47.5°	1789.4	1693.4	1592.4	1490.1	1391.6	1280.6	1175.9	1079.9	983.8	896.6	813.0
45°	1988.9	1880.4	1769.4	1653.5	1537.5	1417.8	1301.8	1184.6	1079.9	976.4	881.6
42.5°	2194.6	2072.4	1949.0	1820.6	1692.1	1561.2	1430.3	1301.8	1175.9	1061.2	953.9
40°	2406.6	2272.0	2131.0	1991.4	1854.2	1704.6	1561.2	1417.8	1280.6	1148.4	1026.2
37.5°	2618.6	2471.5	2319.3	2162.2	2005.1	1854.2	1692.1	1537.5	1391.6	1239.5	1103.6
35°	2831.8	2669.7	2505.1	2334.3	2162.2	1991.4	1820.6	1653.5	1490.1	1331.7	1184.6
32.5°	3046.3	2869.2	2687.2	2505.1	2319.3	2131.0	1949.0	1769.4	1592.4	1421.5	1258.2
30°	3257.0	3065.0	2869.2	2669.7	2471.5	2272.0	2072.4	1880.4	1693.4	1510.1	1335.5
27.5°	3462.8	3257.0	3046.3	2831.8	2618.6	2406.6	2194.6	1988.9	1789.4	1594.9	1407.8
25°	3661.1	3441.6	3215.9	2987.7	2760.8	2535.1	2311.9	2089.9	1880.4	1675.9	1480.1
22.5°	3848.1	3616.2	3378.0	3136.1	2892.9	2654.8	2420.3	2189.7	1966.4	1752.0	1546.2
20°	4027.7	3779.5	3537.6	3273.3	3018.9	2768.2	2522.6	2280.7	2045.0	1821.8	1606.1
17.5°	4191.0	3930.4	3666.0	3400.4	3133.6	2870.5	2613.6	2373.0	2117.3	1885.4	1663.4
15°	4338.2	4066.3	3789.5	3513.9	3235.8	2962.8	2695.9	2436.6	2183.4	1942.8	1713.3
12.5°	4466.6	4184.8	3898.0	3612.4	3326.9	3043.8	2768.2	2500.1	2240.8	1991.4	1755.7
10°	4572.6	4284.5	3989.0	3694.7	3401.7	3111.2	2826.8	2553.8	2288.2	2032.5	1790.6
7.5°	4658.6	4363.1	4062.6	3759.6	3460.3	3163.5	2874.2	2594.9	2325.6	2063.7	1818.1
5°	4719.7	4420.5	4115.0	3805.7	3502.7	3202.2	2907.9	2624.8	2351.8	2086.2	1838.0
2.5°	4758.4	4466.6	4157.3	3844.4	3537.6	3233.4	2935.3	2648.5	2373.0	2104.9	1854.2
0°	4770.9	4466.6	4157.3	3844.4	3537.6	3233.4	2935.3	2648.5	2373.0	2104.9	1854.2

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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°	29.9	27.4	24.9	23.7	21.2	20.0	17.5	15.0	13.7	11.2	8.7
85°	59.9	54.9	51.1	47.4	43.6	38.7	34.9	31.2	26.2	22.4	17.5
82.5°	91.0	84.8	78.6	72.3	66.1	59.9	52.4	46.1	39.9	33.7	26.2
80°	125.9	116.0	107.2	98.5	89.8	81.1	71.1	62.3	52.4	43.6	34.9
77.5°	162.1	150.9	138.4	125.9	113.5	102.3	89.8	78.6	67.3	54.9	43.6
75°	200.8	185.8	172.1	155.9	140.9	124.7	109.7	94.8	81.1	67.3	52.4
72.5°	240.7	222.0	203.3	185.8	167.1	148.4	130.9	112.2	94.8	78.6	62.3
70°	281.8	259.4	236.9	215.7	194.5	172.1	152.1	130.9	109.7	89.8	71.1
67.5°	325.5	299.3	273.1	245.7	222.0	197.0	172.1	148.4	124.7	102.3	81.1
65°	372.8	341.7	309.2	280.6	249.4	222.0	194.5	167.1	140.9	113.5	89.8
62.5°	421.5	385.3	349.1	313.0	280.6	245.7	215.7	185.8	155.9	125.9	98.5
60°	471.3	430.2	389.1	349.1	309.2	273.1	236.9	203.3	172.1	138.4	107.2
57.5°	522.5	476.3	430.2	385.3	341.7	299.3	259.4	222.0	185.8	150.9	116.0
55°	574.8	522.5	471.3	421.5	372.8	325.5	281.8	240.7	200.8	162.1	125.9
52.5°	627.2	569.9	512.5	458.9	407.8	354.1	304.3	258.1	214.5	174.6	134.7
50°	680.8	616.0	554.9	495.0	436.4	380.3	326.7	276.8	229.4	185.8	143.4
47.5°	735.7	664.6	596.0	531.2	468.9	407.8	349.1	294.3	243.2	197.0	152.1
45°	794.3	712.0	638.4	568.6	500.0	435.2	371.6	311.7	258.1	208.2	160.9
42.5°	851.7	763.1	680.8	607.3	531.2	461.4	394.0	330.4	271.8	218.2	168.3
40°	916.5	814.3	720.7	639.7	561.1	486.3	415.2	347.9	285.6	228.2	175.8
37.5°	978.9	864.1	765.6	674.6	589.8	511.3	436.4	365.4	299.3	238.2	183.3
35°	1042.5	919.0	806.8	707.0	618.5	536.2	456.4	381.6	310.5	246.9	190.8
32.5°	1107.3	971.4	850.4	741.9	647.2	558.6	475.1	396.5	323.0	256.9	197.0
30°	1169.6	1021.3	891.6	775.6	673.4	581.1	493.8	411.5	335.4	265.6	203.3
27.5°	1233.2	1073.6	932.7	806.8	698.3	601.0	510.0	425.2	346.7	274.3	209.5
25°	1294.3	1123.5	971.4	836.7	720.7	621.0	527.5	438.9	356.6	281.8	214.5
22.5°	1350.5	1167.2	1006.3	865.4	744.4	638.4	542.4	451.4	366.6	289.3	219.5
20°	1401.6	1212.0	1042.5	894.1	766.9	655.9	554.9	462.6	375.3	295.5	224.5
17.5°	1451.5	1253.2	1074.9	920.3	785.6	670.9	567.4	471.3	382.8	300.5	228.2
15°	1493.9	1289.4	1103.6	942.7	803.0	683.3	577.3	480.1	389.1	305.5	230.7
12.5°	1531.3	1320.5	1128.5	961.4	816.8	694.6	587.3	487.6	395.3	309.2	234.4
10°	1561.2	1345.5	1148.4	977.6	829.2	703.3	593.6	493.8	399.0	313.0	236.9
7.5°	1584.9	1365.4	1164.7	988.8	838.0	710.8	599.8	497.5	402.8	315.5	240.7
5°	1602.3	1380.4	1175.9	997.6	845.4	719.5	607.3	503.8	407.8	319.2	240.7
2.5°	1616.1	1391.6	1184.6	1005.0	850.4	719.5	607.3	503.8	407.8	319.2	240.7
0°	1616.1	1391.6	1184.6	1005.0	850.4	719.5	607.3	503.8	407.8	319.2	240.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.2	5.0	2.5	0.0
85°	13.7	8.7	5.0	0.0
82.5°	20.0	13.7	6.2	0.0
80°	26.2	17.5	8.7	0.0
77.5°	33.7	22.4	11.2	0.0
75°	39.9	26.2	13.7	0.0
72.5°	46.1	31.2	15.0	0.0
70°	52.4	34.9	17.5	0.0
67.5°	59.9	38.7	20.0	0.0
65°	66.1	43.6	21.2	0.0
62.5°	72.3	47.4	23.7	0.0
60°	78.6	51.1	24.9	0.0
57.5°	84.8	54.9	27.4	0.0
55°	91.0	59.9	29.9	0.0
52.5°	97.3	63.6	31.2	0.0
50°	103.5	67.3	32.4	0.0
47.5°	108.5	71.1	34.9	0.0
45°	114.7	74.8	36.2	0.0
42.5°	121.0	77.3	37.4	0.0
40°	125.9	81.1	38.7	0.0
37.5°	132.2	83.5	41.1	0.0
35°	137.2	87.3	42.4	0.0
32.5°	140.9	89.8	43.6	0.0
30°	145.9	92.3	44.9	0.0
27.5°	149.6	94.8	44.9	0.0
25°	153.4	97.3	46.1	0.0
22.5°	157.1	98.5	47.4	0.0
20°	160.9	101.0	48.6	0.0
17.5°	163.4	102.3	48.6	0.0
15°	165.8	103.5	51.1	0.0
12.5°	167.1	104.7	51.1	0.0
10°	169.6	107.2	51.1	0.0
7.5°	172.1	107.2	51.1	0.0
5°	172.1	107.2	51.1	0.0
2.5°	172.1	107.2	51.1	0.0
0°	172.1	107.2	51.1	0.0

(END OF REPORT)