

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: P624530

Luminaire Tested: **IFLD-S-SA3B-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624530
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

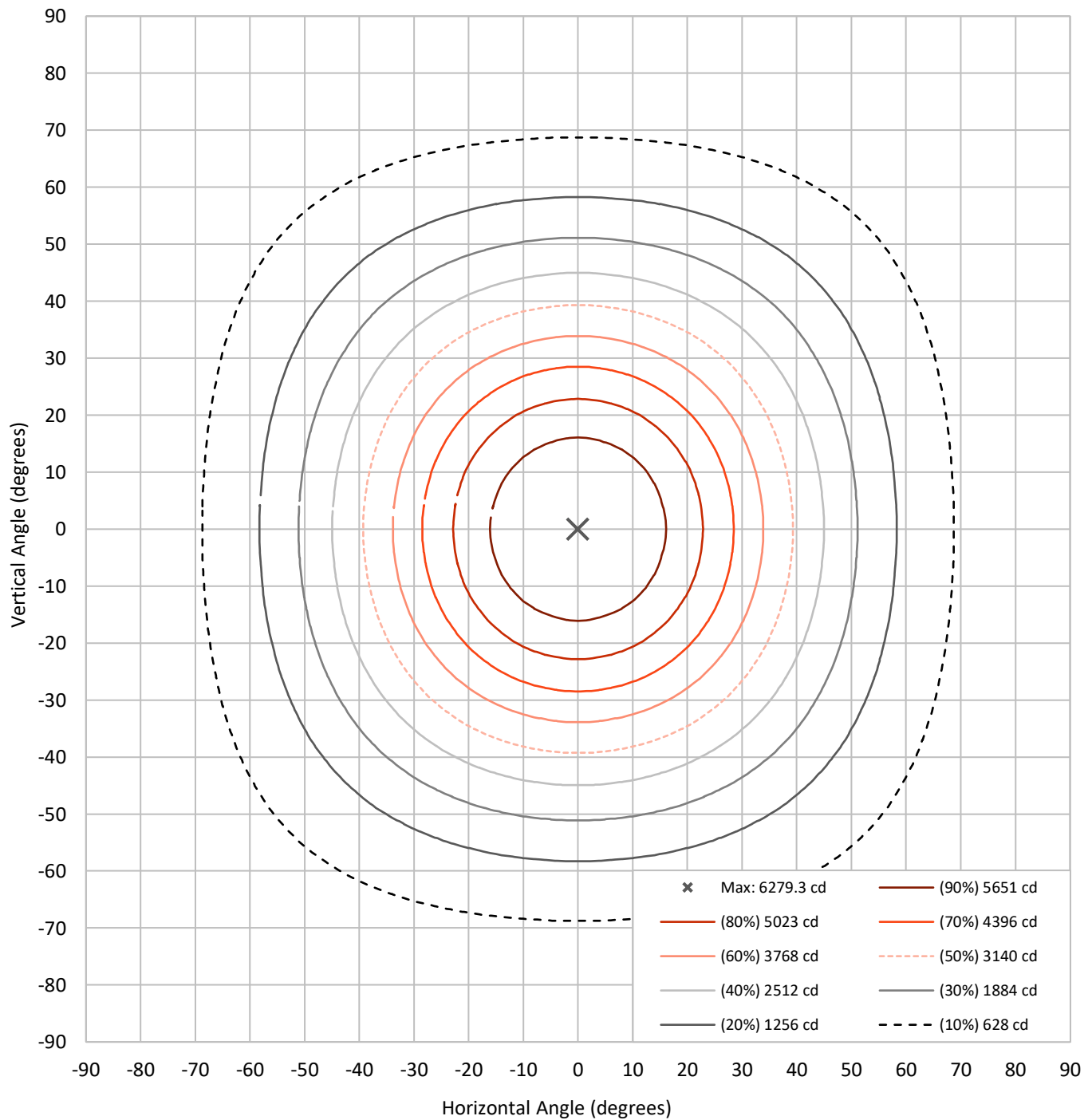
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11306.1 lumens	Max Intensity:	6279.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	92.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4892 lumens	Field Lumens:	8010.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	122.4		
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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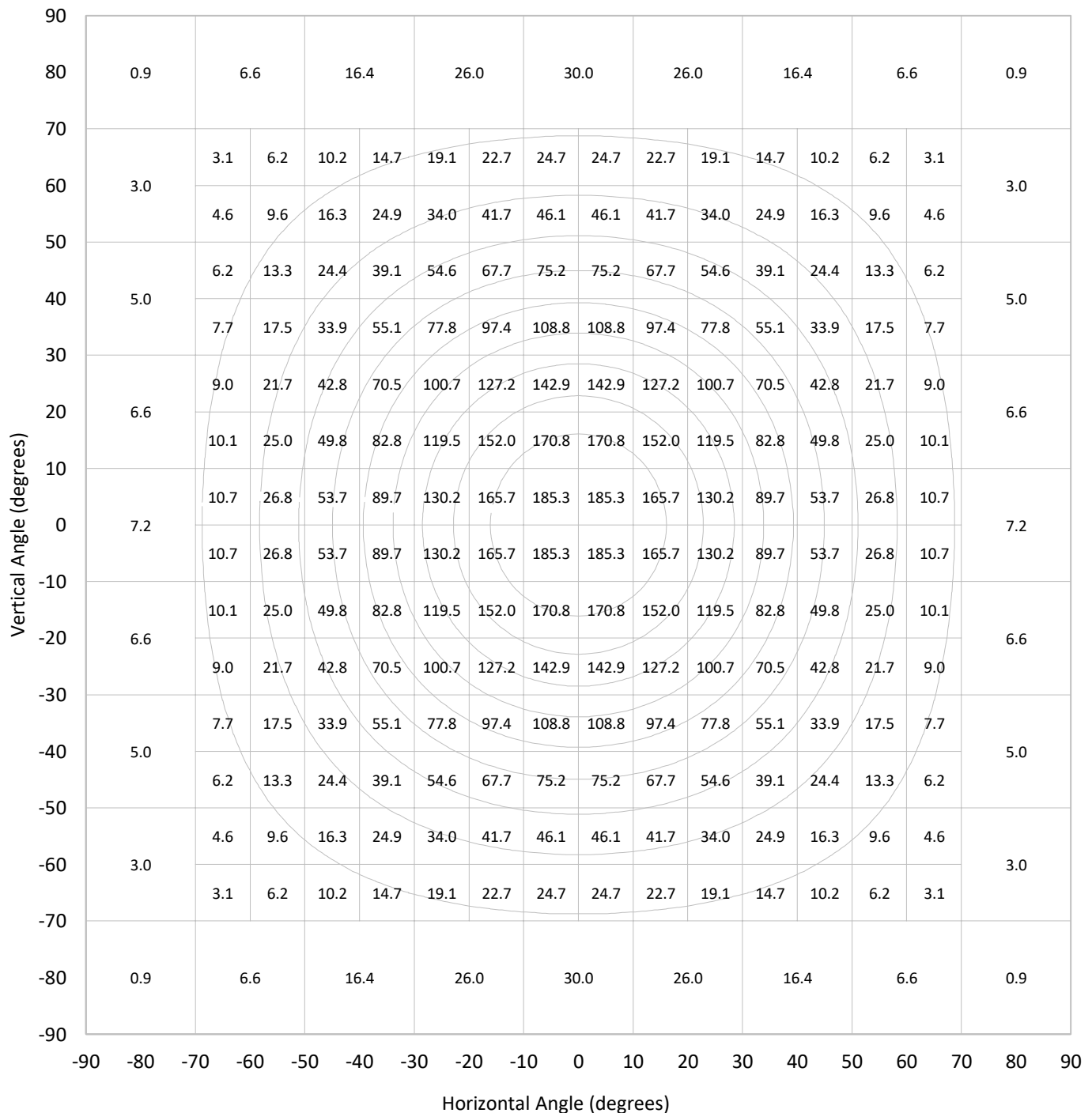
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Iso-Candela Plot



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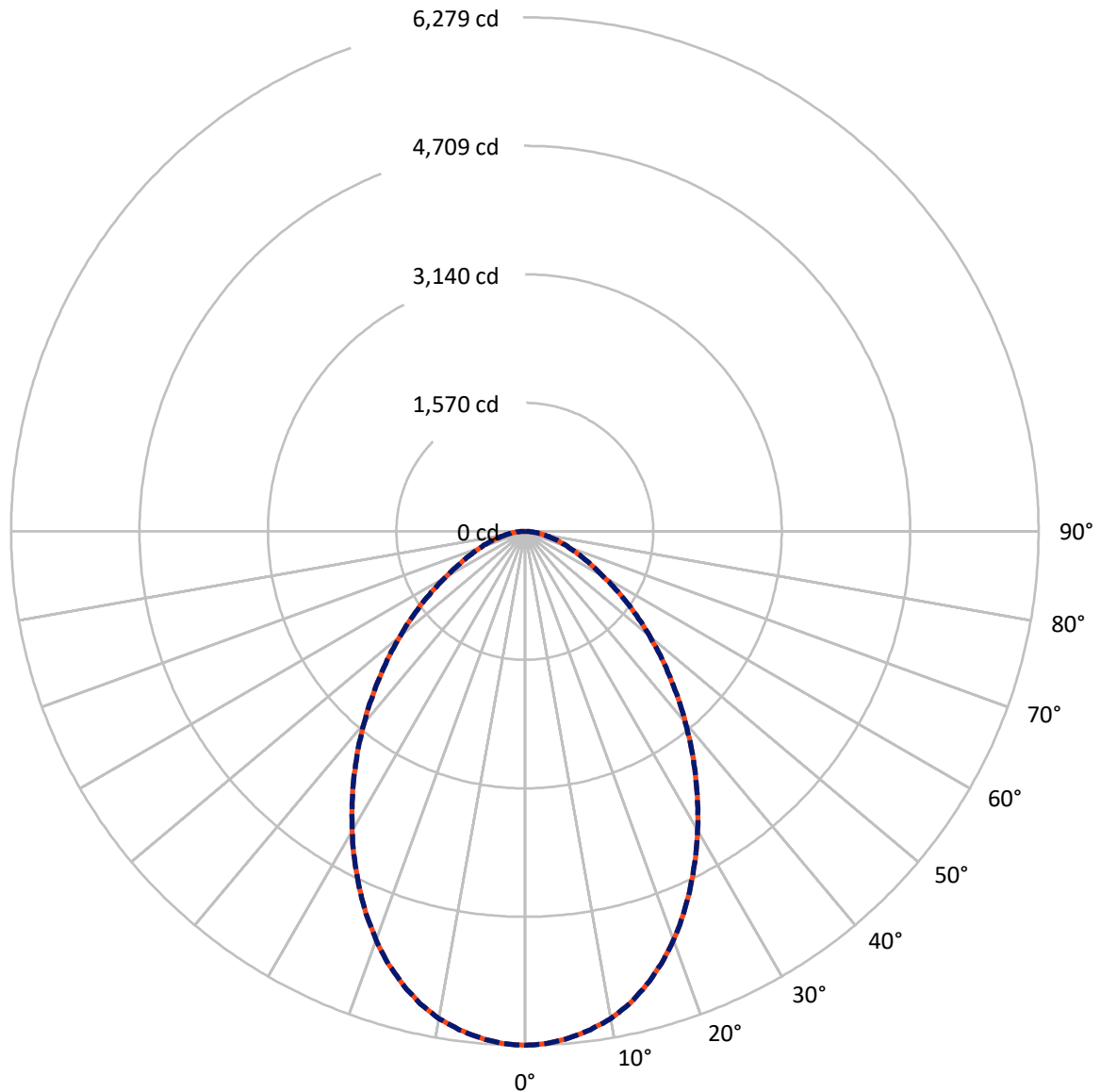
Lumen Table



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Luminous Intensity Polar Plot



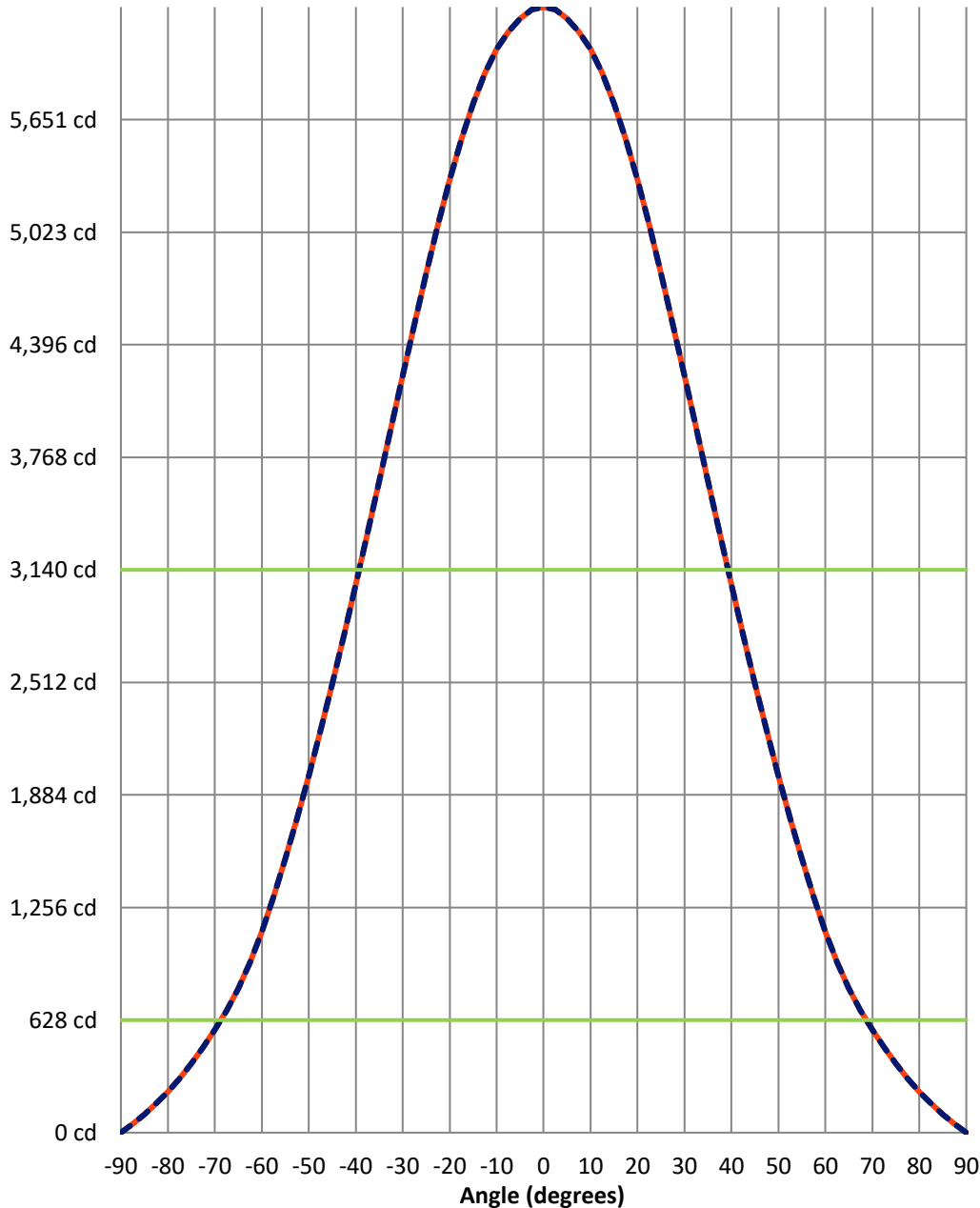
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 4892
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 8010.5
Efficiency: 70.9%

Spill:
Lumens: 3295.6
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°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	46.0	46.0	44.8	43.6
85°	101.4	101.4	101.4	101.4	101.4	99.0	97.8	96.7	95.5	93.1	91.9
82.5°	162.7	162.7	162.7	162.7	160.3	158.0	156.8	154.4	152.1	148.5	145.0
80°	227.5	227.5	227.5	227.5	224.0	221.6	218.1	215.7	212.2	207.5	202.7
77.5°	301.8	301.8	301.8	298.2	295.9	292.3	288.8	284.1	279.4	273.5	266.4
75°	385.5	385.5	385.5	380.7	377.2	373.7	367.8	361.9	354.8	346.6	337.1
72.5°	476.2	476.2	476.2	470.3	466.8	460.9	453.8	445.6	437.3	426.7	414.9
70°	574.1	574.1	574.1	567.0	561.1	555.2	545.8	536.3	524.6	512.8	498.6
67.5°	680.2	680.2	680.2	671.9	664.8	656.6	646.0	634.2	620.0	603.5	587.0
65°	803.9	803.9	799.2	792.1	783.9	772.1	759.1	742.6	724.9	703.7	681.3
62.5°	950.1	950.1	943.0	934.8	924.2	908.8	891.2	869.9	845.2	818.1	791.0
60°	1119.8	1119.8	1111.6	1101.0	1085.6	1066.8	1043.2	1016.1	985.5	951.3	918.3
57.5°	1315.5	1315.5	1304.9	1290.8	1271.9	1248.3	1218.8	1184.7	1145.8	1103.3	1062.1
55°	1527.7	1527.7	1514.7	1498.2	1475.8	1447.5	1412.2	1372.1	1324.9	1276.6	1223.6
52.5°	1752.8	1752.8	1737.5	1718.6	1692.7	1659.7	1619.6	1572.5	1518.3	1461.7	1399.2
50°	1989.8	1989.8	1972.1	1950.9	1921.4	1882.5	1836.5	1782.3	1722.2	1656.2	1584.3
47.5°	2243.2	2243.2	2223.2	2198.4	2163.0	2118.3	2064.0	2001.6	1933.2	1858.9	1777.6
45°	2503.7	2503.7	2481.3	2453.0	2414.1	2363.4	2303.3	2243.2	2156.0	2069.9	1975.6
42.5°	2774.8	2774.8	2748.9	2717.1	2672.3	2616.9	2548.5	2470.7	2384.7	2288.0	2185.4
40°	3056.6	3056.6	3027.1	2990.5	2941.0	2877.4	2800.8	2713.5	2616.9	2509.6	2396.4
37.5°	3344.2	3344.2	3311.2	3271.1	3215.7	3145.0	3058.9	2962.3	2853.8	2734.8	2609.8
35°	3634.2	3634.2	3597.6	3554.0	3492.7	3414.9	3321.8	3214.5	3094.3	2964.6	2824.3
32.5°	3930.0	3930.0	3889.9	3840.4	3770.9	3684.8	3582.3	3465.6	3344.2	3193.3	3040.1
30°	4222.4	4222.4	4178.7	4124.5	4050.3	3956.0	3844.0	3715.5	3572.9	3418.4	3253.4
27.5°	4510.0	4498.2	4461.7	4403.9	4322.6	4222.4	4100.9	3961.9	3807.4	3637.7	3460.9
25°	4792.9	4779.9	4739.8	4676.2	4589.0	4479.3	4348.5	4200.0	4033.8	3854.6	3661.3
22.5°	5064.0	5049.9	5007.4	4939.1	4845.9	4726.9	4586.6	4427.5	4250.7	4058.5	3854.6
20°	5315.1	5299.8	5256.1	5184.2	5087.6	4961.4	4812.9	4642.0	4453.4	4250.7	4033.8
17.5°	5541.4	5526.1	5480.1	5405.8	5315.1	5174.8	5021.6	4841.2	4642.0	4427.5	4200.0
15°	5740.6	5724.1	5677.0	5602.7	5499.0	5366.9	5205.5	5021.6	4812.9	4586.6	4348.5
12.5°	5910.4	5893.9	5845.5	5771.3	5664.0	5532.0	5366.9	5174.8	4961.4	4726.9	4479.3
10°	6044.7	6028.2	5982.3	5911.5	5800.7	5664.0	5499.0	5315.1	5087.6	4845.9	4589.0
7.5°	6141.4	6126.1	6083.6	6012.9	5911.5	5771.3	5602.7	5405.8	5184.2	4939.1	4676.2
5°	6214.5	6196.8	6154.4	6083.6	5982.3	5845.5	5677.0	5480.1	5256.1	5007.4	4739.8
2.5°	6265.2	6244.0	6196.8	6126.1	6028.2	5893.9	5724.1	5526.1	5299.8	5049.9	4779.9
0°	6279.3	6265.2	6214.5	6141.4	6044.7	5910.4	5740.6	5541.4	5315.1	5064.0	4792.9

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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°	42.4	42.4	41.3	40.1	38.9	36.5	35.4	34.2	33.0	30.6	29.5
85°	89.6	87.2	84.9	82.5	79.0	76.6	73.1	70.7	67.2	63.7	60.1
82.5°	141.5	137.9	133.2	129.7	124.9	119.1	114.3	108.4	102.6	97.8	91.9
80°	198.0	192.1	186.2	180.4	173.3	166.2	159.1	152.1	143.8	135.6	127.3
77.5°	259.3	251.1	242.8	233.4	225.1	215.7	206.3	196.9	186.2	175.6	165.0
75°	327.7	317.1	305.3	293.5	282.9	269.9	257.0	244.0	229.9	216.9	202.7
72.5°	402.0	389.0	374.8	360.7	345.4	328.9	312.4	294.7	278.2	261.7	244.0
70°	482.1	466.8	449.1	431.4	412.6	392.5	372.5	351.3	330.1	308.8	287.6
67.5°	568.2	549.3	528.1	506.9	483.3	459.7	436.1	411.4	385.5	359.5	334.8
65°	660.1	636.5	611.8	584.7	557.6	530.4	502.2	472.7	443.2	412.6	385.5
62.5°	762.7	733.2	701.4	668.4	637.7	604.7	574.1	537.5	502.2	468.0	433.8
60°	881.7	842.8	803.9	762.7	723.8	681.3	643.6	603.5	563.5	524.6	484.5
57.5°	1014.9	965.4	918.3	868.8	816.9	769.7	721.4	673.1	628.3	582.3	538.7
55°	1165.8	1105.7	1046.7	985.5	925.3	866.4	805.1	750.9	695.5	643.6	592.9
52.5°	1330.8	1262.5	1189.4	1119.8	1043.2	970.1	901.8	833.4	768.6	706.1	648.3
50°	1507.6	1427.5	1343.8	1258.9	1171.7	1085.6	1003.1	923.0	847.5	774.5	706.1
47.5°	1691.5	1600.8	1505.3	1408.6	1315.5	1210.6	1111.6	1020.8	930.1	847.5	768.6
45°	1880.1	1777.6	1672.7	1563.1	1453.4	1340.3	1230.6	1119.8	1020.8	923.0	833.4
42.5°	2074.6	1959.1	1842.4	1721.0	1599.6	1475.8	1352.1	1230.6	1111.6	1003.1	901.8
40°	2275.0	2147.7	2014.5	1882.5	1752.8	1611.4	1475.8	1340.3	1210.6	1085.6	970.1
37.5°	2475.4	2336.3	2192.5	2044.0	1895.5	1752.8	1599.6	1453.4	1315.5	1171.7	1043.2
35°	2677.0	2523.7	2368.2	2206.7	2044.0	1882.5	1721.0	1563.1	1408.6	1258.9	1119.8
32.5°	2879.7	2712.4	2540.3	2368.2	2192.5	2014.5	1842.4	1672.7	1505.3	1343.8	1189.4
30°	3079.0	2897.4	2712.4	2523.7	2336.3	2147.7	1959.1	1777.6	1600.8	1427.5	1262.5
27.5°	3273.4	3079.0	2879.7	2677.0	2475.4	2275.0	2074.6	1880.1	1691.5	1507.6	1330.8
25°	3460.9	3253.4	3040.1	2824.3	2609.8	2396.4	2185.4	1975.6	1777.6	1584.3	1399.2
22.5°	3637.7	3418.4	3193.3	2964.6	2734.8	2509.6	2288.0	2069.9	1858.9	1656.2	1461.7
20°	3807.4	3572.9	3344.2	3094.3	2853.8	2616.9	2384.7	2156.0	1933.2	1722.2	1518.3
17.5°	3961.9	3715.5	3465.6	3214.5	2962.3	2713.5	2470.7	2243.2	2001.6	1782.3	1572.5
15°	4100.9	3844.0	3582.3	3321.8	3058.9	2800.8	2548.5	2303.3	2064.0	1836.5	1619.6
12.5°	4222.4	3956.0	3684.8	3414.9	3145.0	2877.4	2616.9	2363.4	2118.3	1882.5	1659.7
10°	4322.6	4050.3	3770.9	3492.7	3215.7	2941.0	2672.3	2414.1	2163.0	1921.4	1692.7
7.5°	4403.9	4124.5	3840.4	3554.0	3271.1	2990.5	2717.1	2453.0	2198.4	1950.9	1718.6
5°	4461.7	4178.7	3889.9	3597.6	3311.2	3027.1	2748.9	2481.3	2223.2	1972.1	1737.5
2.5°	4498.2	4222.4	3930.0	3634.2	3344.2	3056.6	2774.8	2503.7	2243.2	1989.8	1752.8
0°	4510.0	4222.4	3930.0	3634.2	3344.2	3056.6	2774.8	2503.7	2243.2	1989.8	1752.8

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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°	28.3	25.9	23.6	22.4	20.0	18.9	16.5	14.1	13.0	10.6	8.3
85°	56.6	51.9	48.3	44.8	41.3	36.5	33.0	29.5	24.8	21.2	16.5
82.5°	86.1	80.2	74.3	68.4	62.5	56.6	49.5	43.6	37.7	31.8	24.8
80°	119.1	109.6	101.4	93.1	84.9	76.6	67.2	58.9	49.5	41.3	33.0
77.5°	153.2	142.6	130.8	119.1	107.3	96.7	84.9	74.3	63.7	51.9	41.3
75°	189.8	175.6	162.7	147.3	133.2	117.9	103.7	89.6	76.6	63.7	49.5
72.5°	227.5	209.8	192.1	175.6	158.0	140.3	123.8	106.1	89.6	74.3	58.9
70°	266.4	245.2	224.0	203.9	183.9	162.7	143.8	123.8	103.7	84.9	67.2
67.5°	307.7	282.9	258.2	232.2	209.8	186.2	162.7	140.3	117.9	96.7	76.6
65°	352.5	323.0	292.3	265.2	235.8	209.8	183.9	158.0	133.2	107.3	84.9
62.5°	398.4	364.2	330.1	295.9	265.2	232.2	203.9	175.6	147.3	119.1	93.1
60°	445.6	406.7	367.8	330.1	292.3	258.2	224.0	192.1	162.7	130.8	101.4
57.5°	493.9	450.3	406.7	364.2	323.0	282.9	245.2	209.8	175.6	142.6	109.6
55°	543.4	493.9	445.6	398.4	352.5	307.7	266.4	227.5	189.8	153.2	119.1
52.5°	592.9	538.7	484.5	433.8	385.5	334.8	287.6	244.0	202.7	165.0	127.3
50°	643.6	582.3	524.6	468.0	412.6	359.5	308.8	261.7	216.9	175.6	135.6
47.5°	695.5	628.3	563.5	502.2	443.2	385.5	330.1	278.2	229.9	186.2	143.8
45°	750.9	673.1	603.5	537.5	472.7	411.4	351.3	294.7	244.0	196.9	152.1
42.5°	805.1	721.4	643.6	574.1	502.2	436.1	372.5	312.4	257.0	206.3	159.1
40°	866.4	769.7	681.3	604.7	530.4	459.7	392.5	328.9	269.9	215.7	166.2
37.5°	925.3	816.9	723.8	637.7	557.6	483.3	412.6	345.4	282.9	225.1	173.3
35°	985.5	868.8	762.7	668.4	584.7	506.9	431.4	360.7	293.5	233.4	180.4
32.5°	1046.7	918.3	803.9	701.4	611.8	528.1	449.1	374.8	305.3	242.8	186.2
30°	1105.7	965.4	842.8	733.2	636.5	549.3	466.8	389.0	317.1	251.1	192.1
27.5°	1165.8	1014.9	881.7	762.7	660.1	568.2	482.1	402.0	327.7	259.3	198.0
25°	1223.6	1062.1	918.3	791.0	681.3	587.0	498.6	414.9	337.1	266.4	202.7
22.5°	1276.6	1103.3	951.3	818.1	703.7	603.5	512.8	426.7	346.6	273.5	207.5
20°	1324.9	1145.8	985.5	845.2	724.9	620.0	524.6	437.3	354.8	279.4	212.2
17.5°	1372.1	1184.7	1016.1	869.9	742.6	634.2	536.3	445.6	361.9	284.1	215.7
15°	1412.2	1218.8	1043.2	891.2	759.1	646.0	545.8	453.8	367.8	288.8	218.1
12.5°	1447.5	1248.3	1066.8	908.8	772.1	656.6	555.2	460.9	373.7	292.3	221.6
10°	1475.8	1271.9	1085.6	924.2	783.9	664.8	561.1	466.8	377.2	295.9	224.0
7.5°	1498.2	1290.8	1101.0	934.8	792.1	671.9	567.0	470.3	380.7	298.2	227.5
5°	1514.7	1304.9	1111.6	943.0	799.2	680.2	574.1	476.2	385.5	301.8	227.5
2.5°	1527.7	1315.5	1119.8	950.1	803.9	680.2	574.1	476.2	385.5	301.8	227.5
0°	1527.7	1315.5	1119.8	950.1	803.9	680.2	574.1	476.2	385.5	301.8	227.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.9	4.7	2.4	0.0
85°	13.0	8.3	4.7	0.0
82.5°	18.9	13.0	5.9	0.0
80°	24.8	16.5	8.3	0.0
77.5°	31.8	21.2	10.6	0.0
75°	37.7	24.8	13.0	0.0
72.5°	43.6	29.5	14.1	0.0
70°	49.5	33.0	16.5	0.0
67.5°	56.6	36.5	18.9	0.0
65°	62.5	41.3	20.0	0.0
62.5°	68.4	44.8	22.4	0.0
60°	74.3	48.3	23.6	0.0
57.5°	80.2	51.9	25.9	0.0
55°	86.1	56.6	28.3	0.0
52.5°	91.9	60.1	29.5	0.0
50°	97.8	63.7	30.6	0.0
47.5°	102.6	67.2	33.0	0.0
45°	108.4	70.7	34.2	0.0
42.5°	114.3	73.1	35.4	0.0
40°	119.1	76.6	36.5	0.0
37.5°	124.9	79.0	38.9	0.0
35°	129.7	82.5	40.1	0.0
32.5°	133.2	84.9	41.3	0.0
30°	137.9	87.2	42.4	0.0
27.5°	141.5	89.6	42.4	0.0
25°	145.0	91.9	43.6	0.0
22.5°	148.5	93.1	44.8	0.0
20°	152.1	95.5	46.0	0.0
17.5°	154.4	96.7	46.0	0.0
15°	156.8	97.8	48.3	0.0
12.5°	158.0	99.0	48.3	0.0
10°	160.3	101.4	48.3	0.0
7.5°	162.7	101.4	48.3	0.0
5°	162.7	101.4	48.3	0.0
2.5°	162.7	101.4	48.3	0.0
0°	162.7	101.4	48.3	0.0

(END OF REPORT)