

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: P624534

Luminaire Tested: **IFLD-S-SA6A-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624534
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

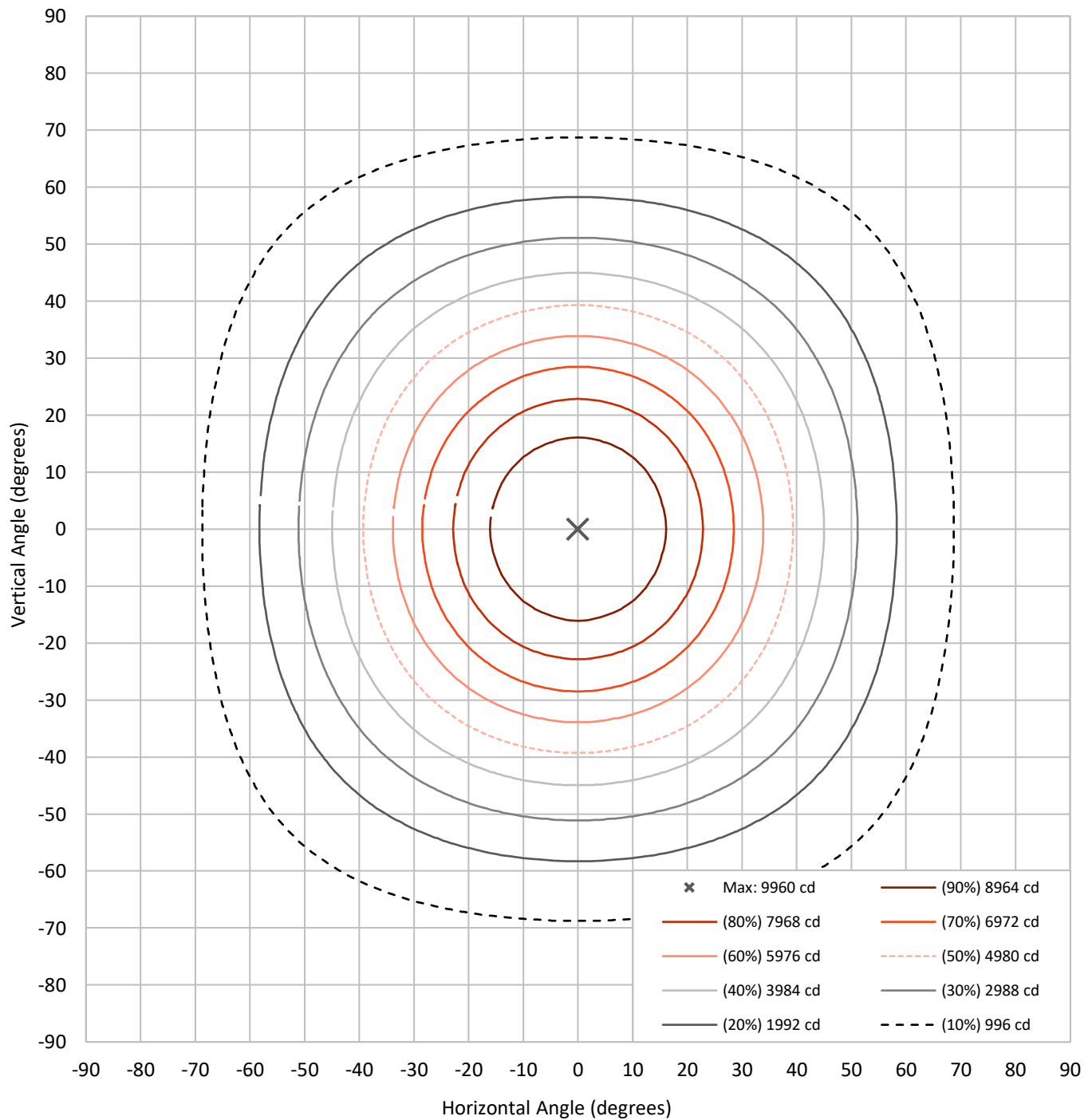
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17933.3 lumens	Max Intensity:	9960 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	94.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	7759.5 lumens	Field Lumens:	12706 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	189.6		
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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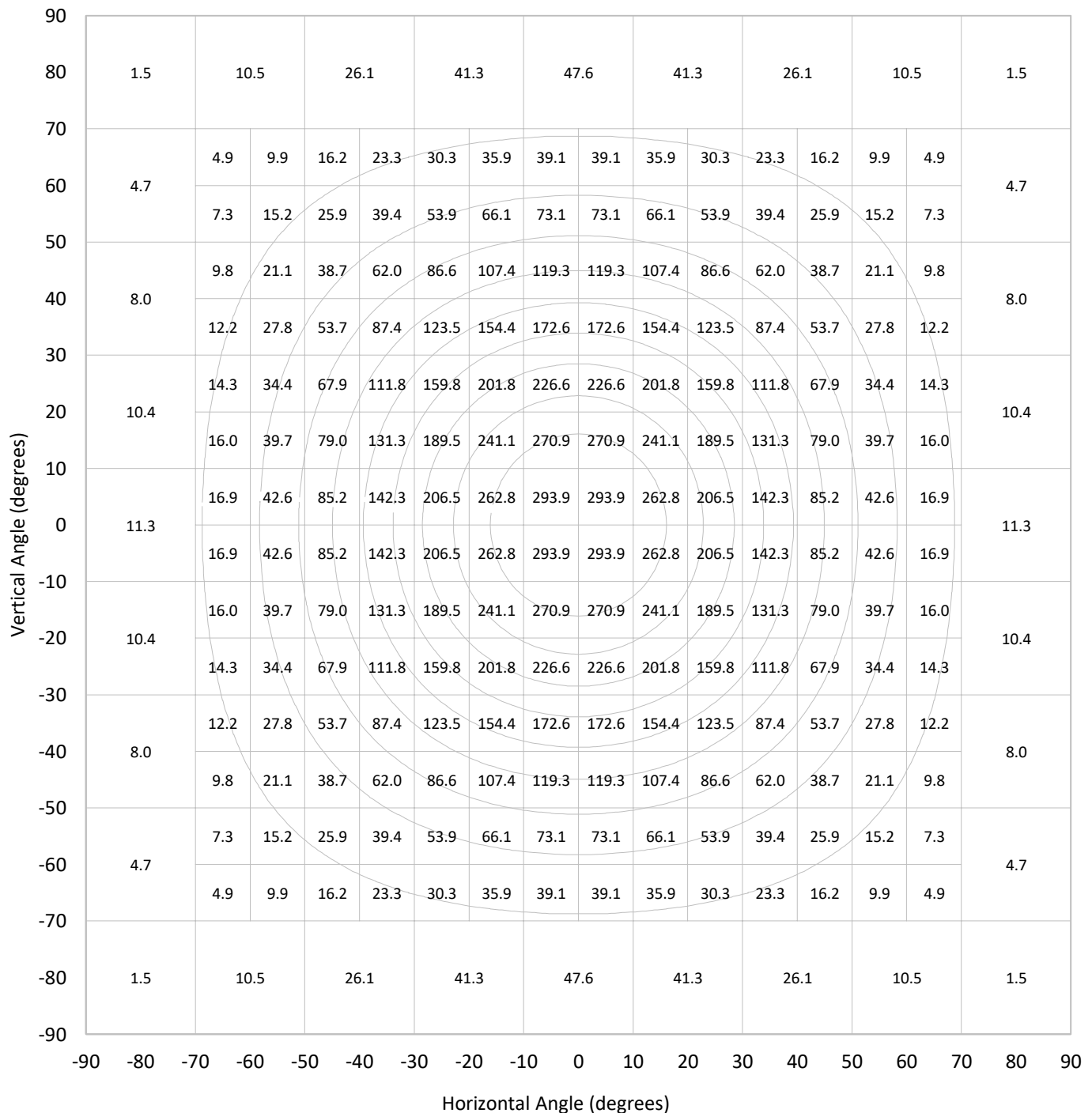
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Iso-Candela Plot



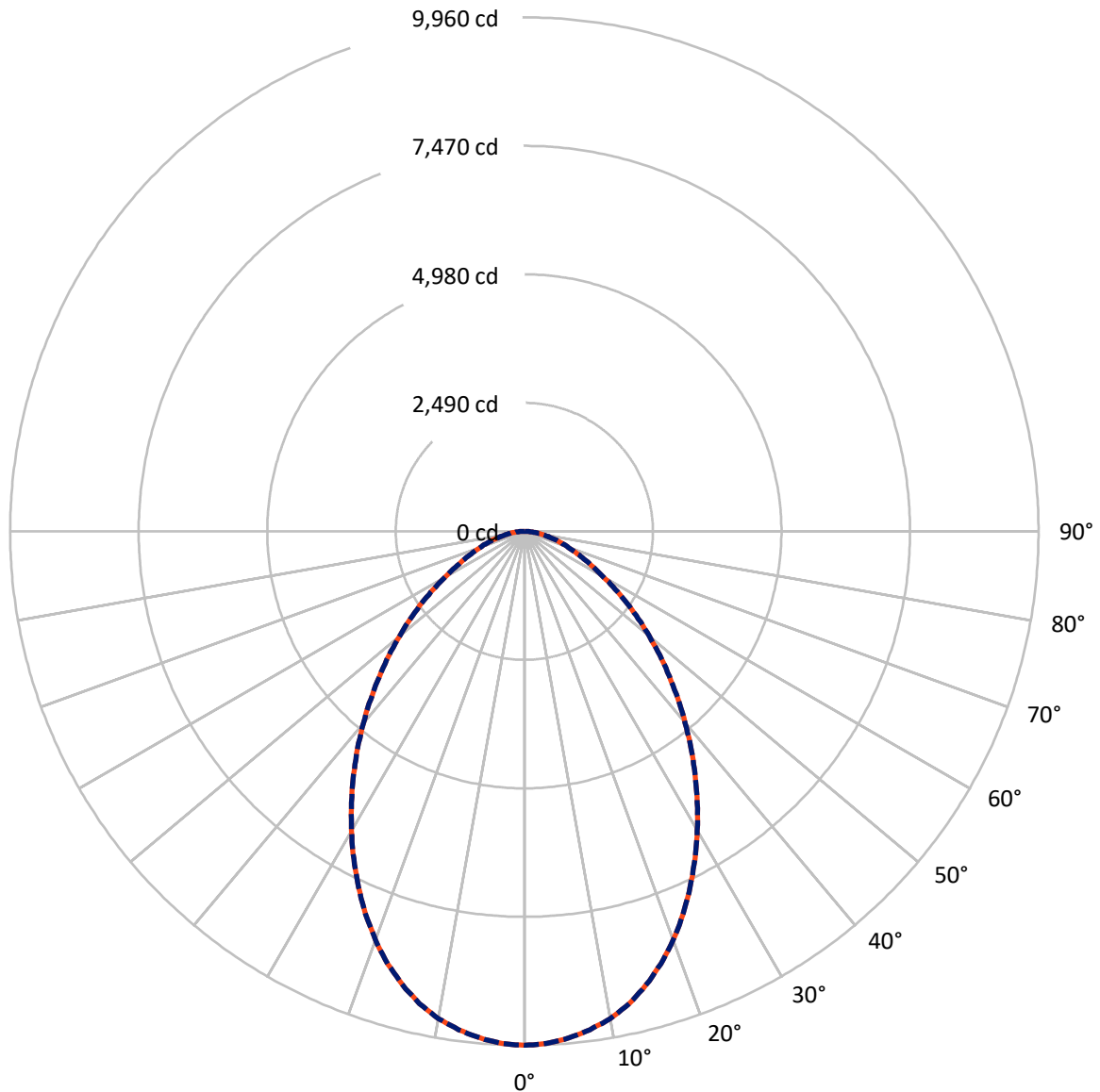
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Lumen Table



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Luminous Intensity Polar Plot

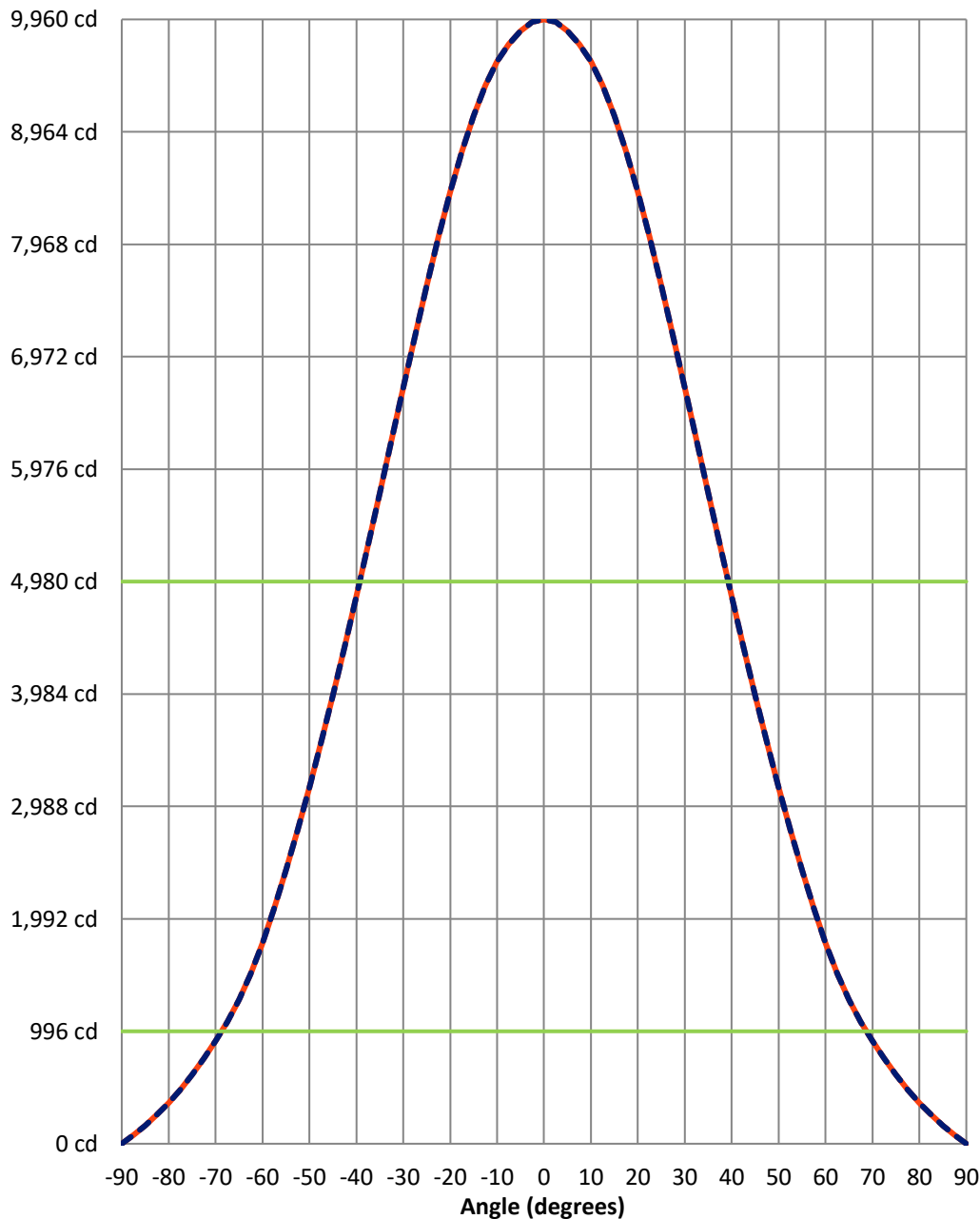


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 7759.5
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 12706
Efficiency: 70.9%

Spill:

Lumens: 5227.3
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°	76.7	76.7	76.7	76.7	76.7	76.7	76.7	72.9	72.9	71.0	69.2
85°	160.8	160.8	160.8	160.8	160.8	157.1	155.2	153.3	151.4	147.7	145.8
82.5°	258.0	258.0	258.0	258.0	254.3	250.5	248.7	244.9	241.2	235.6	230.0
80°	360.9	360.9	360.9	360.9	355.2	351.5	345.9	342.2	336.6	329.1	321.6
77.5°	478.6	478.6	478.6	473.0	469.3	463.7	458.1	450.6	443.1	433.8	422.6
75°	611.4	611.4	611.4	603.9	598.3	592.7	583.4	574.0	562.8	549.7	534.7
72.5°	755.4	755.4	755.4	746.0	740.4	731.1	719.8	706.8	693.7	676.8	658.1
70°	910.6	910.6	910.6	899.3	890.0	880.6	865.7	850.7	832.0	813.3	790.9
67.5°	1078.8	1078.8	1078.8	1065.7	1054.5	1041.4	1024.6	1005.9	983.5	957.3	931.1
65°	1275.2	1275.2	1267.7	1256.5	1243.4	1224.7	1204.1	1177.9	1149.9	1116.2	1080.7
62.5°	1507.0	1507.0	1495.8	1482.7	1465.9	1441.6	1413.5	1379.9	1340.6	1297.6	1254.6
60°	1776.2	1776.2	1763.2	1746.3	1722.0	1692.1	1654.7	1611.7	1563.1	1508.9	1456.5
57.5°	2086.6	2086.6	2069.8	2047.3	2017.4	1980.0	1933.3	1879.1	1817.4	1750.1	1684.6
55°	2423.2	2423.2	2402.6	2376.4	2340.9	2296.0	2239.9	2176.4	2101.6	2024.9	1940.8
52.5°	2780.3	2780.3	2756.0	2726.1	2684.9	2632.6	2569.0	2494.2	2408.2	2318.5	2219.4
50°	3156.1	3156.1	3128.0	3094.4	3047.7	2985.9	2913.0	2827.0	2731.7	2627.0	2512.9
47.5°	3558.1	3558.1	3526.3	3487.0	3430.9	3359.9	3273.9	3174.8	3066.3	2948.6	2819.5
45°	3971.3	3971.3	3935.8	3890.9	3829.2	3748.8	3653.4	3558.1	3419.7	3283.2	3133.7
42.5°	4401.3	4401.3	4360.2	4309.7	4238.7	4150.8	4042.3	3918.9	3782.5	3629.1	3466.5
40°	4848.2	4848.2	4801.5	4743.5	4665.0	4564.0	4442.5	4304.1	4150.8	3980.6	3801.1
37.5°	5304.4	5304.4	5252.1	5188.5	5100.6	4988.4	4851.9	4698.6	4526.6	4337.8	4139.6
35°	5764.4	5764.4	5706.4	5637.2	5540.0	5416.6	5268.9	5098.7	4908.0	4702.4	4479.9
32.5°	6233.7	6233.7	6170.1	6091.6	5981.2	5844.8	5682.1	5497.0	5304.4	5065.1	4822.0
30°	6697.4	6697.4	6628.2	6542.2	6424.4	6274.8	6097.2	5893.4	5667.1	5422.2	5160.4
27.5°	7153.6	7134.9	7076.9	6985.3	6856.3	6697.4	6504.8	6284.1	6039.2	5770.0	5489.5
25°	7602.3	7581.7	7518.2	7417.2	7278.8	7105.0	6897.4	6661.8	6398.2	6114.0	5807.4
22.5°	8032.3	8009.9	7942.6	7834.1	7686.4	7497.6	7275.1	7022.7	6742.2	6437.5	6114.0
20°	8430.6	8406.3	8337.1	8223.0	8069.7	7869.7	7634.1	7363.0	7063.8	6742.2	6398.2
17.5°	8789.6	8765.3	8692.3	8574.6	8430.6	8208.1	7965.0	7679.0	7363.0	7022.7	6661.8
15°	9105.6	9079.4	9004.6	8886.8	8722.3	8512.9	8256.7	7965.0	7634.1	7275.1	6897.4
12.5°	9374.8	9348.6	9272.0	9154.2	8984.0	8774.6	8512.9	8208.1	7869.7	7497.6	7105.0
10°	9587.9	9561.8	9488.9	9376.7	9200.9	8984.0	8722.3	8430.6	8069.7	7686.4	7278.8
7.5°	9741.3	9717.0	9649.6	9537.5	9376.7	9154.2	8886.8	8574.6	8223.0	7834.1	7417.2
5°	9857.2	9829.1	9761.8	9649.6	9488.9	9272.0	9004.6	8692.3	8337.1	7942.6	7518.2
2.5°	9937.6	9903.9	9829.1	9717.0	9561.8	9348.6	9079.4	8765.3	8406.3	8009.9	7581.7
0°	9960.0	9937.6	9857.2	9741.3	9587.9	9374.8	9105.6	8789.6	8430.6	8032.3	7602.3

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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°	67.3	67.3	65.4	63.6	61.7	58.0	56.1	54.2	52.4	48.6	46.7
85°	142.1	138.4	134.6	130.9	125.3	121.5	115.9	112.2	106.6	101.0	95.4
82.5°	224.4	218.8	211.3	205.7	198.2	188.8	181.4	172.0	162.7	155.2	145.8
80°	314.1	304.8	295.4	286.1	274.8	263.6	252.4	241.2	228.1	215.0	201.9
77.5°	411.3	398.3	385.2	370.2	357.1	342.2	327.2	312.2	295.4	278.6	261.8
75°	519.8	503.0	484.3	465.6	448.7	428.2	407.6	387.0	364.6	344.0	321.6
72.5°	637.6	617.0	594.6	572.1	547.8	521.7	495.5	467.4	441.3	415.1	387.0
70°	764.7	740.4	712.4	684.3	654.4	622.6	590.8	557.2	523.5	489.9	456.2
67.5°	901.2	871.3	837.6	804.0	766.6	729.2	691.8	652.5	611.4	570.3	531.0
65°	1047.0	1009.7	970.4	927.4	884.4	841.4	796.5	749.8	703.0	654.4	611.4
62.5°	1209.7	1163.0	1112.5	1060.1	1011.5	959.2	910.6	852.6	796.5	742.3	688.1
60°	1398.6	1336.9	1275.2	1209.7	1148.0	1080.7	1020.9	957.3	893.7	832.0	768.5
57.5°	1609.8	1531.3	1456.5	1378.0	1295.7	1220.9	1144.3	1067.6	996.6	923.6	854.5
55°	1849.2	1753.8	1660.3	1563.1	1467.7	1374.2	1277.0	1191.0	1103.1	1020.9	940.5
52.5°	2110.9	2002.5	1886.6	1776.2	1654.7	1538.8	1430.3	1321.9	1219.1	1120.0	1028.3
50°	2391.4	2264.2	2131.5	1996.9	1858.5	1722.0	1591.1	1464.0	1344.3	1228.4	1120.0
47.5°	2683.1	2539.1	2387.6	2234.3	2086.6	1920.2	1763.2	1619.2	1475.2	1344.3	1219.1
45°	2982.2	2819.5	2653.1	2479.3	2305.4	2125.9	1952.0	1776.2	1619.2	1464.0	1321.9
42.5°	3290.7	3107.5	2922.4	2729.8	2537.2	2340.9	2144.6	1952.0	1763.2	1591.1	1430.3
40°	3608.6	3406.6	3195.4	2985.9	2780.3	2555.9	2340.9	2125.9	1920.2	1722.0	1538.8
37.5°	3926.4	3705.8	3477.7	3242.1	3006.5	2780.3	2537.2	2305.4	2086.6	1858.5	1654.7
35°	4246.1	4003.1	3756.3	3500.1	3242.1	2985.9	2729.8	2479.3	2234.3	1996.9	1776.2
32.5°	4567.7	4302.2	4029.3	3756.3	3477.7	3195.4	2922.4	2653.1	2387.6	2131.5	1886.6
30°	4883.7	4595.8	4302.2	4003.1	3705.8	3406.6	3107.5	2819.5	2539.1	2264.2	2002.5
27.5°	5192.2	4883.7	4567.7	4246.1	3926.4	3608.6	3290.7	2982.2	2683.1	2391.4	2110.9
25°	5489.5	5160.4	4822.0	4479.9	4139.6	3801.1	3466.5	3133.7	2819.5	2512.9	2219.4
22.5°	5770.0	5422.2	5065.1	4702.4	4337.8	3980.6	3629.1	3283.2	2948.6	2627.0	2318.5
20°	6039.2	5667.1	5304.4	4908.0	4526.6	4150.8	3782.5	3419.7	3066.3	2731.7	2408.2
17.5°	6284.1	5893.4	5497.0	5098.7	4698.6	4304.1	3918.9	3558.1	3174.8	2827.0	2494.2
15°	6504.8	6097.2	5682.1	5268.9	4851.9	4442.5	4042.3	3653.4	3273.9	2913.0	2569.0
12.5°	6697.4	6274.8	5844.8	5416.6	4988.4	4564.0	4150.8	3748.8	3359.9	2985.9	2632.6
10°	6856.3	6424.4	5981.2	5540.0	5100.6	4665.0	4238.7	3829.2	3430.9	3047.7	2684.9
7.5°	6985.3	6542.2	6091.6	5637.2	5188.5	4743.5	4309.7	3890.9	3487.0	3094.4	2726.1
5°	7076.9	6628.2	6170.1	5706.4	5252.1	4801.5	4360.2	3935.8	3526.3	3128.0	2756.0
2.5°	7134.9	6697.4	6233.7	5764.4	5304.4	4848.2	4401.3	3971.3	3558.1	3156.1	2780.3
0°	7153.6	6697.4	6233.7	5764.4	5304.4	4848.2	4401.3	3971.3	3558.1	3156.1	2780.3

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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°	44.9	41.1	37.4	35.5	31.8	29.9	26.2	22.4	20.6	16.8	13.1
85°	89.7	82.3	76.7	71.0	65.4	58.0	52.4	46.7	39.3	33.7	26.2
82.5°	136.5	127.1	117.8	108.4	99.1	89.7	78.5	69.2	59.8	50.5	39.3
80°	188.8	173.9	160.8	147.7	134.6	121.5	106.6	93.5	78.5	65.4	52.4
77.5°	243.1	226.2	207.5	188.8	170.1	153.3	134.6	117.8	101.0	82.3	65.4
75°	301.0	278.6	258.0	233.7	211.3	187.0	164.5	142.1	121.5	101.0	78.5
72.5°	360.9	332.8	304.8	278.6	250.5	222.5	196.3	168.3	142.1	117.8	93.5
70°	422.6	388.9	355.2	323.5	291.7	258.0	228.1	196.3	164.5	134.6	106.6
67.5°	488.0	448.7	409.5	368.3	332.8	295.4	258.0	222.5	187.0	153.3	121.5
65°	559.0	512.3	463.7	420.7	373.9	332.8	291.7	250.5	211.3	170.1	134.6
62.5°	632.0	577.7	523.5	469.3	420.7	368.3	323.5	278.6	233.7	188.8	147.7
60°	706.8	645.1	583.4	523.5	463.7	409.5	355.2	304.8	258.0	207.5	160.8
57.5°	783.4	714.2	645.1	577.7	512.3	448.7	388.9	332.8	278.6	226.2	173.9
55°	861.9	783.4	706.8	632.0	559.0	488.0	422.6	360.9	301.0	243.1	188.8
52.5°	940.5	854.5	768.5	688.1	611.4	531.0	456.2	387.0	321.6	261.8	201.9
50°	1020.9	923.6	832.0	742.3	654.4	570.3	489.9	415.1	344.0	278.6	215.0
47.5°	1103.1	996.6	893.7	796.5	703.0	611.4	523.5	441.3	364.6	295.4	228.1
45°	1191.0	1067.6	957.3	852.6	749.8	652.5	557.2	467.4	387.0	312.2	241.2
42.5°	1277.0	1144.3	1020.9	910.6	796.5	691.8	590.8	495.5	407.6	327.2	252.4
40°	1374.2	1220.9	1080.7	959.2	841.4	729.2	622.6	521.7	428.2	342.2	263.6
37.5°	1467.7	1295.7	1148.0	1011.5	884.4	766.6	654.4	547.8	448.7	357.1	274.8
35°	1563.1	1378.0	1209.7	1060.1	927.4	804.0	684.3	572.1	465.6	370.2	286.1
32.5°	1660.3	1456.5	1275.2	1112.5	970.4	837.6	712.4	594.6	484.3	385.2	295.4
30°	1753.8	1531.3	1336.9	1163.0	1009.7	871.3	740.4	617.0	503.0	398.3	304.8
27.5°	1849.2	1609.8	1398.6	1209.7	1047.0	901.2	764.7	637.6	519.8	411.3	314.1
25°	1940.8	1684.6	1456.5	1254.6	1080.7	931.1	790.9	658.1	534.7	422.6	321.6
22.5°	2024.9	1750.1	1508.9	1297.6	1116.2	957.3	813.3	676.8	549.7	433.8	329.1
20°	2101.6	1817.4	1563.1	1340.6	1149.9	983.5	832.0	693.7	562.8	443.1	336.6
17.5°	2176.4	1879.1	1611.7	1379.9	1177.9	1005.9	850.7	706.8	574.0	450.6	342.2
15°	2239.9	1933.3	1654.7	1413.5	1204.1	1024.6	865.7	719.8	583.4	458.1	345.9
12.5°	2296.0	1980.0	1692.1	1441.6	1224.7	1041.4	880.6	731.1	592.7	463.7	351.5
10°	2340.9	2017.4	1722.0	1465.9	1243.4	1054.5	890.0	740.4	598.3	469.3	355.2
7.5°	2376.4	2047.3	1746.3	1482.7	1256.5	1065.7	899.3	746.0	603.9	473.0	360.9
5°	2402.6	2069.8	1763.2	1495.8	1267.7	1078.8	910.6	755.4	611.4	478.6	360.9
2.5°	2423.2	2086.6	1776.2	1507.0	1275.2	1078.8	910.6	755.4	611.4	478.6	360.9
0°	2423.2	2086.6	1776.2	1507.0	1275.2	1078.8	910.6	755.4	611.4	478.6	360.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.3	7.5	3.7	0.0
85°	20.6	13.1	7.5	0.0
82.5°	29.9	20.6	9.3	0.0
80°	39.3	26.2	13.1	0.0
77.5°	50.5	33.7	16.8	0.0
75°	59.8	39.3	20.6	0.0
72.5°	69.2	46.7	22.4	0.0
70°	78.5	52.4	26.2	0.0
67.5°	89.7	58.0	29.9	0.0
65°	99.1	65.4	31.8	0.0
62.5°	108.4	71.0	35.5	0.0
60°	117.8	76.7	37.4	0.0
57.5°	127.1	82.3	41.1	0.0
55°	136.5	89.7	44.9	0.0
52.5°	145.8	95.4	46.7	0.0
50°	155.2	101.0	48.6	0.0
47.5°	162.7	106.6	52.4	0.0
45°	172.0	112.2	54.2	0.0
42.5°	181.4	115.9	56.1	0.0
40°	188.8	121.5	58.0	0.0
37.5°	198.2	125.3	61.7	0.0
35°	205.7	130.9	63.6	0.0
32.5°	211.3	134.6	65.4	0.0
30°	218.8	138.4	67.3	0.0
27.5°	224.4	142.1	67.3	0.0
25°	230.0	145.8	69.2	0.0
22.5°	235.6	147.7	71.0	0.0
20°	241.2	151.4	72.9	0.0
17.5°	244.9	153.3	72.9	0.0
15°	248.7	155.2	76.7	0.0
12.5°	250.5	157.1	76.7	0.0
10°	254.3	160.8	76.7	0.0
7.5°	258.0	160.8	76.7	0.0
5°	258.0	160.8	76.7	0.0
2.5°	258.0	160.8	76.7	0.0
0°	258.0	160.8	76.7	0.0

(END OF REPORT)