

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: P624505

Luminaire Tested: **IFLD-S-SA6A-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624505
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

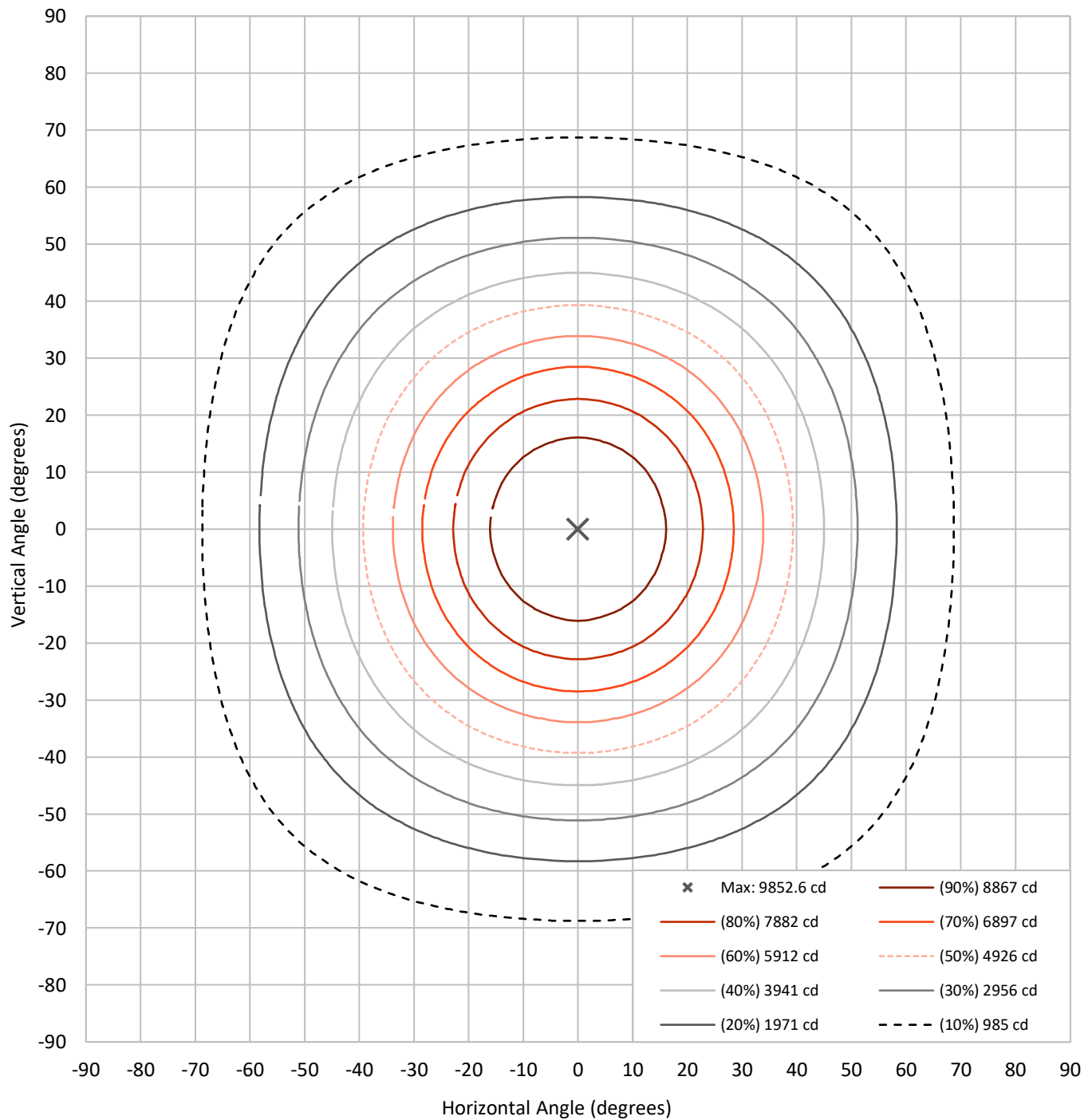
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17739.9 lumens	Max Intensity:	9852.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	93.6 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:	7675.9 lumens	Field Lumens:	12569 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		



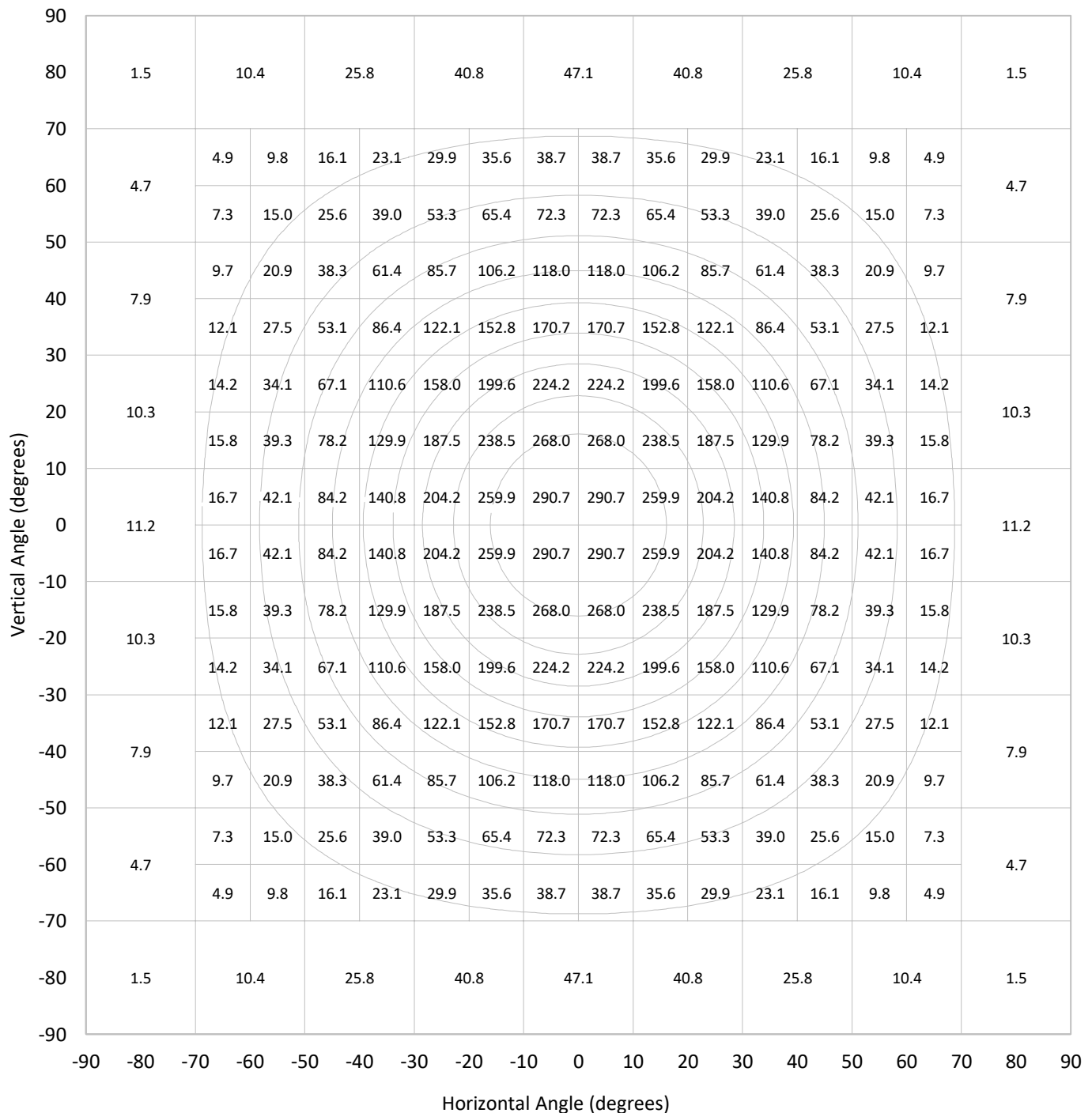
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Iso-Candela Plot



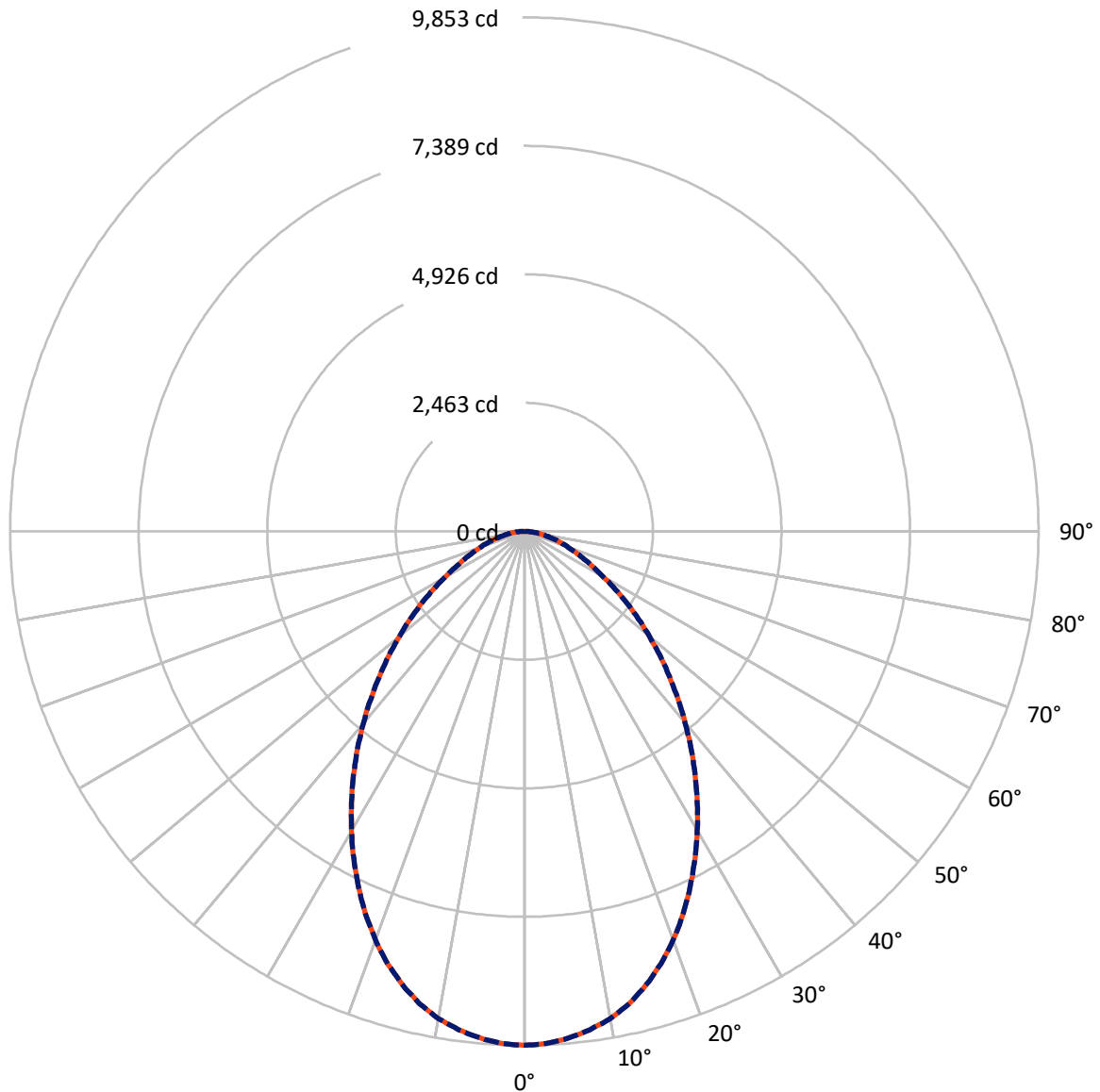
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Lumen Table



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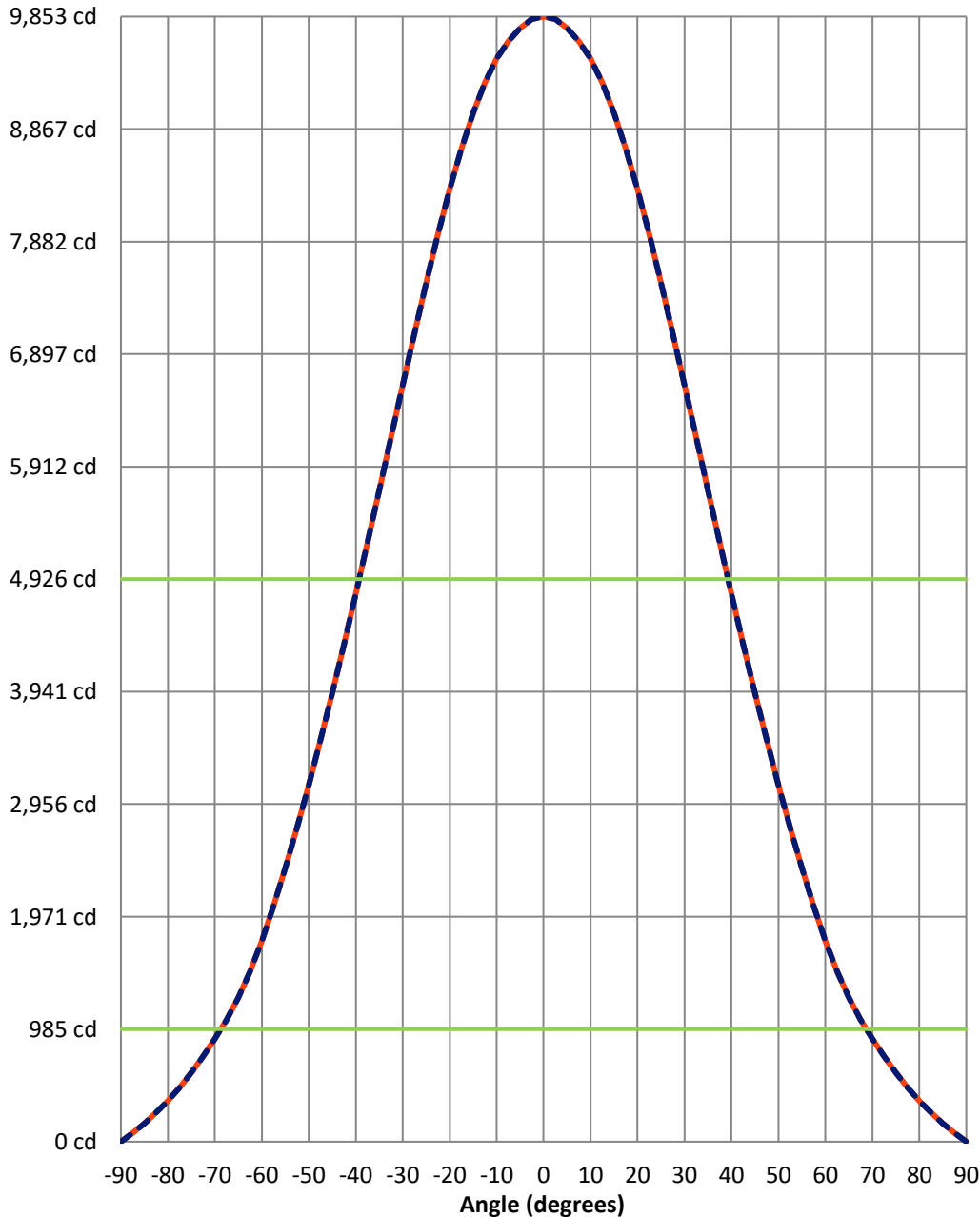
Luminous Intensity Polar Plot



— 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: 7675.9
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 12569
Efficiency: 70.9%

Spill:

Lumens: 5170.9
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°	75.8	75.8	75.8	75.8	75.8	75.8	75.8	72.1	72.1	70.3	68.4
85°	159.1	159.1	159.1	159.1	159.1	155.4	153.5	151.7	149.8	146.1	144.3
82.5°	255.2	255.2	255.2	255.2	251.5	247.8	246.0	242.3	238.6	233.0	227.5
80°	357.0	357.0	357.0	357.0	351.4	347.7	342.2	338.5	332.9	325.5	318.1
77.5°	473.5	473.5	473.5	467.9	464.2	458.7	453.1	445.7	438.3	429.1	418.0
75°	604.8	604.8	604.8	597.4	591.9	586.3	577.1	567.8	556.7	543.8	529.0
72.5°	747.2	747.2	747.2	738.0	732.4	723.2	712.1	699.1	686.2	669.5	651.0
70°	900.7	900.7	900.7	889.6	880.4	871.1	856.3	841.6	823.1	804.6	782.4
67.5°	1067.2	1067.2	1067.2	1054.3	1043.2	1030.2	1013.6	995.1	972.9	947.0	921.1
65°	1261.4	1261.4	1254.0	1242.9	1230.0	1211.5	1191.1	1165.2	1137.5	1104.2	1069.0
62.5°	1490.8	1490.8	1479.7	1466.7	1450.1	1426.0	1398.3	1365.0	1326.1	1283.6	1241.1
60°	1757.1	1757.1	1744.1	1727.5	1703.5	1673.9	1636.9	1594.3	1546.2	1492.6	1440.8
57.5°	2064.1	2064.1	2047.5	2025.3	1995.7	1958.7	1912.5	1858.8	1797.8	1731.2	1666.5
55°	2397.0	2397.0	2376.7	2350.8	2315.7	2271.3	2215.8	2152.9	2078.9	2003.1	1919.8
52.5°	2750.3	2750.3	2726.3	2696.7	2656.0	2604.2	2541.3	2467.3	2382.2	2293.5	2195.4
50°	3122.1	3122.1	3094.3	3061.0	3014.8	2953.8	2881.6	2796.5	2702.2	2598.6	2485.8
47.5°	3519.7	3519.7	3488.3	3449.4	3394.0	3323.7	3238.6	3140.6	3033.3	2916.8	2789.1
45°	3928.5	3928.5	3893.3	3848.9	3787.9	3708.4	3614.1	3519.7	3382.9	3247.8	3099.9
42.5°	4353.9	4353.9	4313.2	4263.3	4193.0	4106.0	3998.8	3876.7	3741.7	3590.0	3429.1
40°	4795.9	4795.9	4749.7	4692.3	4614.7	4514.8	4394.6	4257.7	4106.0	3937.7	3760.2
37.5°	5247.2	5247.2	5195.4	5132.5	5045.6	4934.6	4799.6	4648.0	4477.8	4291.0	4094.9
35°	5702.2	5702.2	5644.9	5576.4	5480.3	5358.2	5212.1	5043.8	4855.1	4651.7	4431.6
32.5°	6166.5	6166.5	6103.6	6025.9	5916.8	5781.7	5620.8	5437.7	5247.2	5010.5	4770.0
30°	6625.1	6625.1	6556.7	6471.6	6355.1	6207.1	6031.4	5829.8	5606.0	5363.7	5104.8
27.5°	7076.4	7057.9	7000.6	6910.0	6782.4	6625.1	6434.6	6216.4	5974.1	5707.8	5430.3
25°	7520.3	7500.0	7437.1	7337.2	7200.4	7028.4	6823.1	6590.0	6329.2	6048.1	5744.8
22.5°	7945.7	7923.5	7857.0	7749.7	7603.6	7416.8	7196.7	6947.0	6669.5	6368.1	6048.1
20°	8339.7	8315.7	8247.2	8134.4	7982.7	7784.8	7551.8	7283.6	6987.7	6669.5	6329.2
17.5°	8694.8	8670.8	8598.6	8482.1	8339.7	8119.6	7879.2	7596.2	7283.6	6947.0	6590.0
15°	9007.4	8981.5	8907.5	8791.0	8628.2	8421.1	8167.7	7879.2	7551.8	7196.7	6823.1
12.5°	9273.7	9247.8	9172.0	9055.5	8887.2	8680.0	8421.1	8119.6	7784.8	7416.8	7028.4
10°	9484.6	9458.7	9386.5	9275.6	9101.7	8887.2	8628.2	8339.7	7982.7	7603.6	7200.4
7.5°	9636.2	9612.2	9545.6	9434.6	9275.6	9055.5	8791.0	8482.1	8134.4	7749.7	7337.2
5°	9750.9	9723.2	9656.6	9545.6	9386.5	9172.0	8907.5	8598.6	8247.2	7857.0	7437.1
2.5°	9830.4	9797.2	9723.2	9612.2	9458.7	9247.8	8981.5	8670.8	8315.7	7923.5	7500.0
0°	9852.6	9830.4	9750.9	9636.2	9484.6	9273.7	9007.4	8694.8	8339.7	7945.7	7520.3

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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°	66.6	66.6	64.7	62.9	61.0	57.3	55.5	53.6	51.8	48.1	46.2
85°	140.6	136.9	133.2	129.5	123.9	120.2	114.7	111.0	105.4	99.9	94.3
82.5°	221.9	216.4	209.0	203.5	196.1	186.8	179.4	170.2	160.9	153.5	144.3
80°	310.7	301.5	292.2	283.0	271.9	260.8	249.7	238.6	225.6	212.7	199.8
77.5°	406.9	394.0	381.0	366.2	353.3	338.5	323.7	308.9	292.2	275.6	258.9
75°	514.2	497.5	479.0	460.5	443.9	423.6	403.2	382.9	360.7	340.3	318.1
72.5°	630.7	610.4	588.2	566.0	541.9	516.0	490.1	462.4	436.5	410.6	382.9
70°	756.5	732.4	704.7	676.9	647.3	615.9	584.5	551.2	517.9	484.6	451.3
67.5°	891.5	861.9	828.6	795.3	758.3	721.3	684.3	645.5	604.8	564.1	525.3
65°	1035.8	998.8	959.9	917.4	874.8	832.3	787.9	741.7	695.4	647.3	604.8
62.5°	1196.7	1150.4	1100.5	1048.7	1000.6	948.8	900.7	843.4	787.9	734.3	680.6
60°	1383.5	1322.4	1261.4	1196.7	1135.6	1069.0	1009.9	947.0	884.1	823.1	760.2
57.5°	1592.5	1514.8	1440.8	1363.1	1281.7	1207.8	1131.9	1056.1	985.8	913.7	845.3
55°	1829.2	1734.9	1642.4	1546.2	1451.9	1359.4	1263.3	1178.2	1091.2	1009.9	930.3
52.5°	2088.2	1980.9	1866.2	1757.1	1636.9	1522.2	1414.9	1307.6	1205.9	1107.9	1017.3
50°	2365.6	2239.8	2108.5	1975.3	1838.5	1703.5	1574.0	1448.2	1329.8	1215.2	1107.9
47.5°	2654.1	2511.7	2361.9	2210.2	2064.1	1899.5	1744.1	1601.7	1459.3	1329.8	1205.9
45°	2950.1	2789.1	2624.5	2452.5	2280.5	2103.0	1930.9	1757.1	1601.7	1448.2	1307.6
42.5°	3255.2	3074.0	2890.9	2700.4	2509.9	2315.7	2121.5	1930.9	1744.1	1574.0	1414.9
40°	3569.7	3369.9	3160.9	2953.8	2750.3	2528.4	2315.7	2103.0	1899.5	1703.5	1522.2
37.5°	3884.1	3665.8	3440.2	3207.1	2974.1	2750.3	2509.9	2280.5	2064.1	1838.5	1636.9
35°	4200.4	3959.9	3715.8	3462.4	3207.1	2953.8	2700.4	2452.5	2210.2	1975.3	1757.1
32.5°	4518.5	4255.9	3985.8	3715.8	3440.2	3160.9	2890.9	2624.5	2361.9	2108.5	1866.2
30°	4831.1	4546.2	4255.9	3959.9	3665.8	3369.9	3074.0	2789.1	2511.7	2239.8	1980.9
27.5°	5136.2	4831.1	4518.5	4200.4	3884.1	3569.7	3255.2	2950.1	2654.1	2365.6	2088.2
25°	5430.3	5104.8	4770.0	4431.6	4094.9	3760.2	3429.1	3099.9	2789.1	2485.8	2195.4
22.5°	5707.8	5363.7	5010.5	4651.7	4291.0	3937.7	3590.0	3247.8	2916.8	2598.6	2293.5
20°	5974.1	5606.0	5247.2	4855.1	4477.8	4106.0	3741.7	3382.9	3033.3	2702.2	2382.2
17.5°	6216.4	5829.8	5437.7	5043.8	4648.0	4257.7	3876.7	3519.7	3140.6	2796.5	2467.3
15°	6434.6	6031.4	5620.8	5212.1	4799.6	4394.6	3998.8	3614.1	3238.6	2881.6	2541.3
12.5°	6625.1	6207.1	5781.7	5358.2	4934.6	4514.8	4106.0	3708.4	3323.7	2953.8	2604.2
10°	6782.4	6355.1	5916.8	5480.3	5045.6	4614.7	4193.0	3787.9	3394.0	3014.8	2656.0
7.5°	6910.0	6471.6	6025.9	5576.4	5132.5	4692.3	4263.3	3848.9	3449.4	3061.0	2696.7
5°	7000.6	6556.7	6103.6	5644.9	5195.4	4749.7	4313.2	3893.3	3488.3	3094.3	2726.3
2.5°	7057.9	6625.1	6166.5	5702.2	5247.2	4795.9	4353.9	3928.5	3519.7	3122.1	2750.3
0°	7076.4	6625.1	6166.5	5702.2	5247.2	4795.9	4353.9	3928.5	3519.7	3122.1	2750.3

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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°	44.4	40.7	37.0	35.1	31.4	29.6	25.9	22.2	20.3	16.6	12.9
85°	88.8	81.4	75.8	70.3	64.7	57.3	51.8	46.2	38.8	33.3	25.9
82.5°	135.0	125.8	116.5	107.3	98.0	88.8	77.7	68.4	59.2	49.9	38.8
80°	186.8	172.0	159.1	146.1	133.2	120.2	105.4	92.5	77.7	64.7	51.8
77.5°	240.4	223.8	205.3	186.8	168.3	151.7	133.2	116.5	99.9	81.4	64.7
75°	297.8	275.6	255.2	231.2	209.0	185.0	162.8	140.6	120.2	99.9	77.7
72.5°	357.0	329.2	301.5	275.6	247.8	220.1	194.2	166.5	140.6	116.5	92.5
70°	418.0	384.7	351.4	320.0	288.5	255.2	225.6	194.2	162.8	133.2	105.4
67.5°	482.7	443.9	405.1	364.4	329.2	292.2	255.2	220.1	185.0	151.7	120.2
65°	553.0	506.8	458.7	416.2	369.9	329.2	288.5	247.8	209.0	168.3	133.2
62.5°	625.2	571.5	517.9	464.2	416.2	364.4	320.0	275.6	231.2	186.8	146.1
60°	699.1	638.1	577.1	517.9	458.7	405.1	351.4	301.5	255.2	205.3	159.1
57.5°	775.0	706.5	638.1	571.5	506.8	443.9	384.7	329.2	275.6	223.8	172.0
55°	852.7	775.0	699.1	625.2	553.0	482.7	418.0	357.0	297.8	240.4	186.8
52.5°	930.3	845.3	760.2	680.6	604.8	525.3	451.3	382.9	318.1	258.9	199.8
50°	1009.9	913.7	823.1	734.3	647.3	564.1	484.6	410.6	340.3	275.6	212.7
47.5°	1091.2	985.8	884.1	787.9	695.4	604.8	517.9	436.5	360.7	292.2	225.6
45°	1178.2	1056.1	947.0	843.4	741.7	645.5	551.2	462.4	382.9	308.9	238.6
42.5°	1263.3	1131.9	1009.9	900.7	787.9	684.3	584.5	490.1	403.2	323.7	249.7
40°	1359.4	1207.8	1069.0	948.8	832.3	721.3	615.9	516.0	423.6	338.5	260.8
37.5°	1451.9	1281.7	1135.6	1000.6	874.8	758.3	647.3	541.9	443.9	353.3	271.9
35°	1546.2	1363.1	1196.7	1048.7	917.4	795.3	676.9	566.0	460.5	366.2	283.0
32.5°	1642.4	1440.8	1261.4	1100.5	959.9	828.6	704.7	588.2	479.0	381.0	292.2
30°	1734.9	1514.8	1322.4	1150.4	998.8	861.9	732.4	610.4	497.5	394.0	301.5
27.5°	1829.2	1592.5	1383.5	1196.7	1035.8	891.5	756.5	630.7	514.2	406.9	310.7
25°	1919.8	1666.5	1440.8	1241.1	1069.0	921.1	782.4	651.0	529.0	418.0	318.1
22.5°	2003.1	1731.2	1492.6	1283.6	1104.2	947.0	804.6	669.5	543.8	429.1	325.5
20°	2078.9	1797.8	1546.2	1326.1	1137.5	972.9	823.1	686.2	556.7	438.3	332.9
17.5°	2152.9	1858.8	1594.3	1365.0	1165.2	995.1	841.6	699.1	567.8	445.7	338.5
15°	2215.8	1912.5	1636.9	1398.3	1191.1	1013.6	856.3	712.1	577.1	453.1	342.2
12.5°	2271.3	1958.7	1673.9	1426.0	1211.5	1030.2	871.1	723.2	586.3	458.7	347.7
10°	2315.7	1995.7	1703.5	1450.1	1230.0	1043.2	880.4	732.4	591.9	464.2	351.4
7.5°	2350.8	2025.3	1727.5	1466.7	1242.9	1054.3	889.6	738.0	597.4	467.9	357.0
5°	2376.7	2047.5	1744.1	1479.7	1254.0	1067.2	900.7	747.2	604.8	473.5	357.0
2.5°	2397.0	2064.1	1757.1	1490.8	1261.4	1067.2	900.7	747.2	604.8	473.5	357.0
0°	2397.0	2064.1	1757.1	1490.8	1261.4	1067.2	900.7	747.2	604.8	473.5	357.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.2	7.4	3.7	0.0
85°	20.3	12.9	7.4	0.0
82.5°	29.6	20.3	9.2	0.0
80°	38.8	25.9	12.9	0.0
77.5°	49.9	33.3	16.6	0.0
75°	59.2	38.8	20.3	0.0
72.5°	68.4	46.2	22.2	0.0
70°	77.7	51.8	25.9	0.0
67.5°	88.8	57.3	29.6	0.0
65°	98.0	64.7	31.4	0.0
62.5°	107.3	70.3	35.1	0.0
60°	116.5	75.8	37.0	0.0
57.5°	125.8	81.4	40.7	0.0
55°	135.0	88.8	44.4	0.0
52.5°	144.3	94.3	46.2	0.0
50°	153.5	99.9	48.1	0.0
47.5°	160.9	105.4	51.8	0.0
45°	170.2	111.0	53.6	0.0
42.5°	179.4	114.7	55.5	0.0
40°	186.8	120.2	57.3	0.0
37.5°	196.1	123.9	61.0	0.0
35°	203.5	129.5	62.9	0.0
32.5°	209.0	133.2	64.7	0.0
30°	216.4	136.9	66.6	0.0
27.5°	221.9	140.6	66.6	0.0
25°	227.5	144.3	68.4	0.0
22.5°	233.0	146.1	70.3	0.0
20°	238.6	149.8	72.1	0.0
17.5°	242.3	151.7	72.1	0.0
15°	246.0	153.5	75.8	0.0
12.5°	247.8	155.4	75.8	0.0
10°	251.5	159.1	75.8	0.0
7.5°	255.2	159.1	75.8	0.0
5°	255.2	159.1	75.8	0.0
2.5°	255.2	159.1	75.8	0.0
0°	255.2	159.1	75.8	0.0

(END OF REPORT)