

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: P624582

Luminaire Tested: **IFLD-S-SA2A-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624582
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-940-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

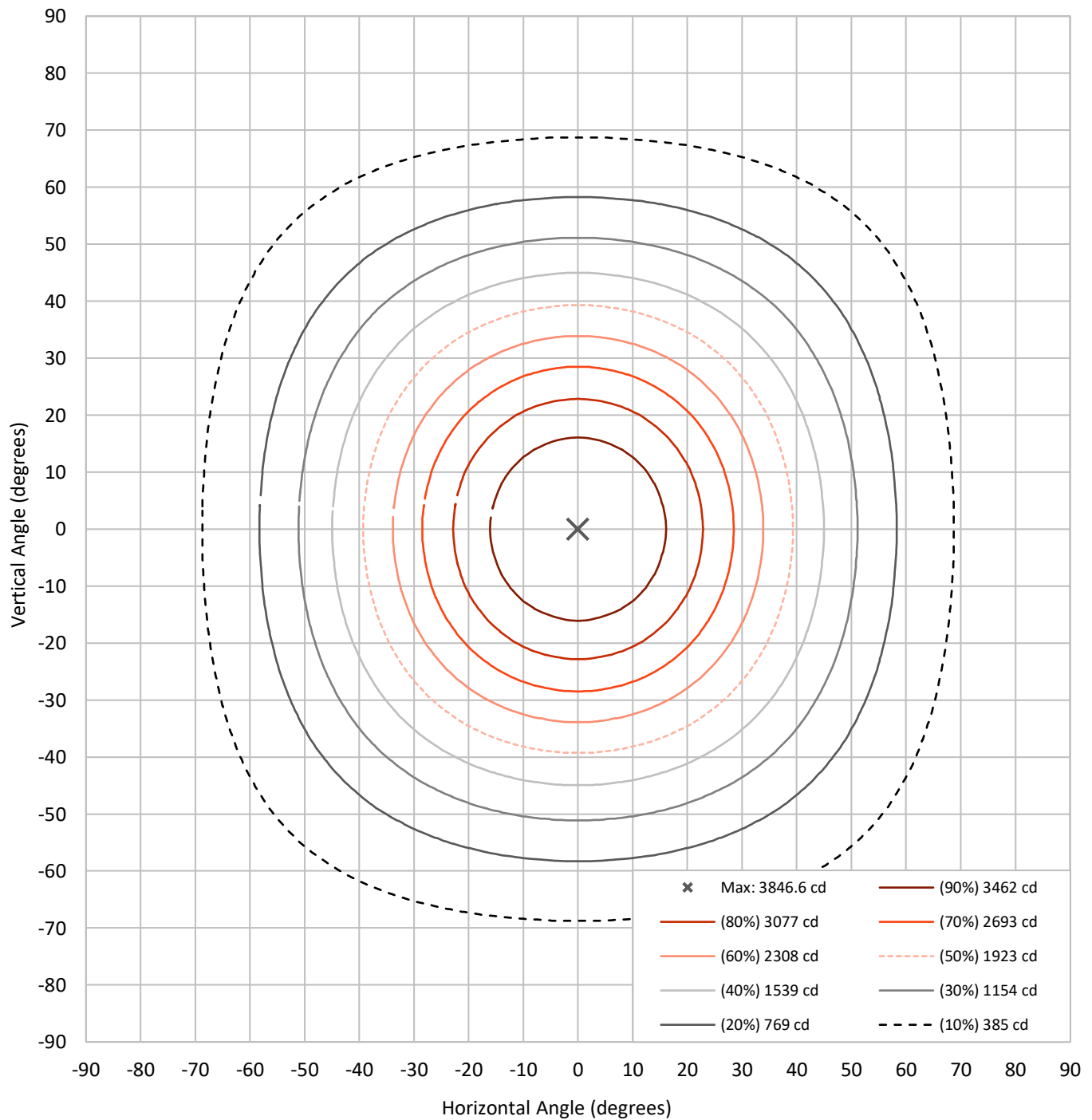
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	6926 lumens	Max Intensity:	3846.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	108.6 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	2996.8 lumens	Field Lumens:	4907.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	63.8		
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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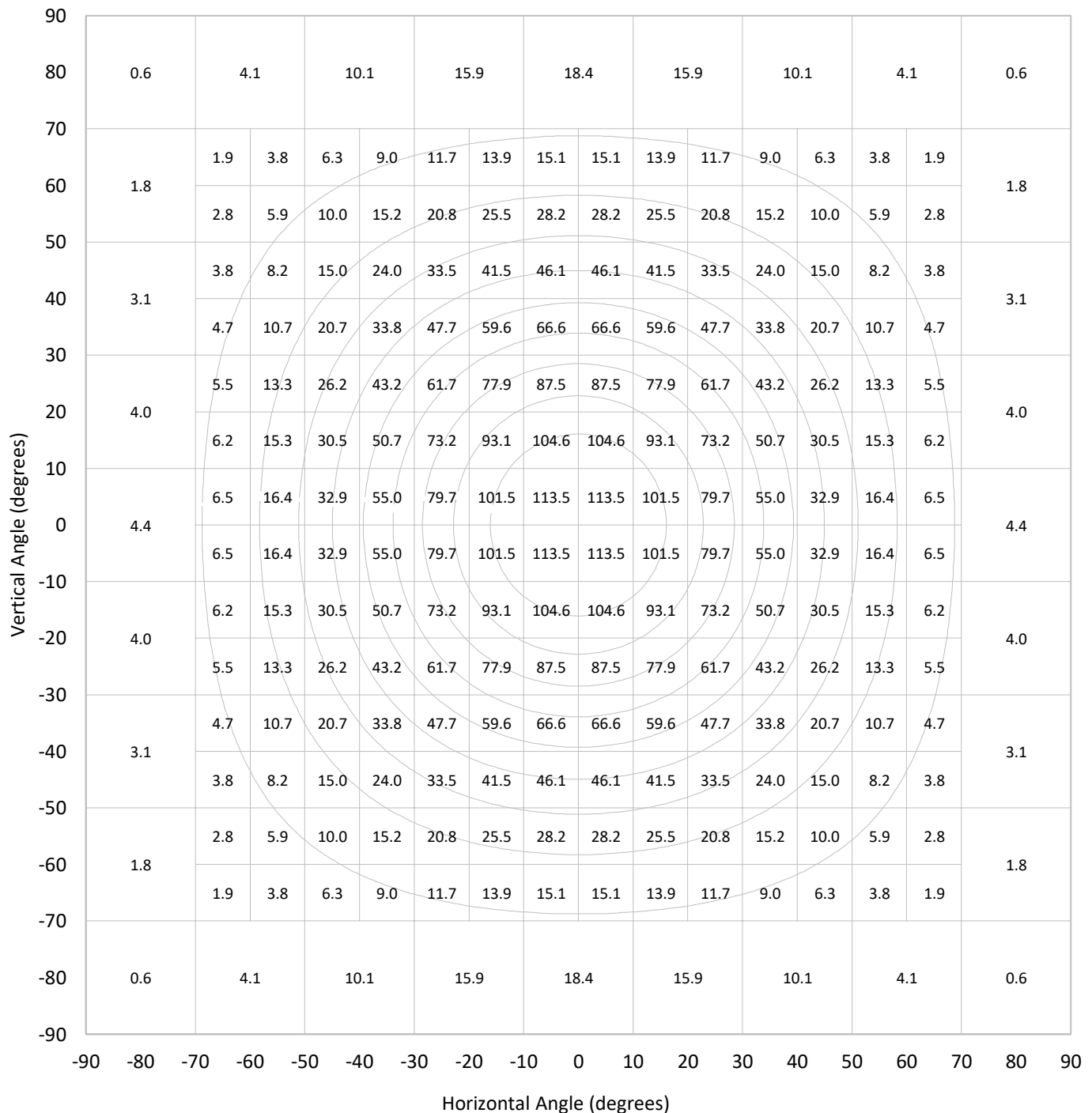
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Iso-Candela Plot



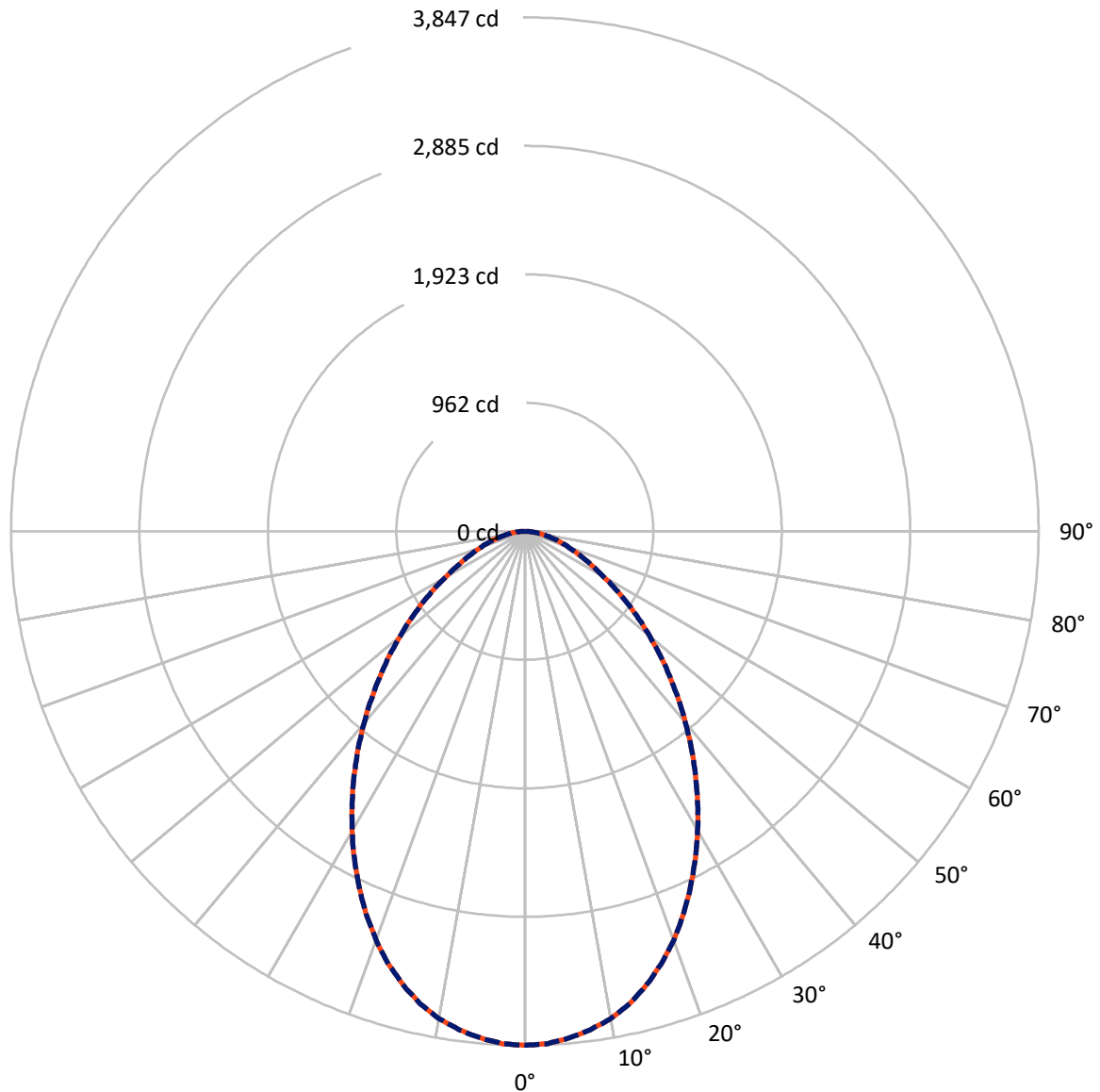
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Lumen Table



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Luminous Intensity Polar Plot

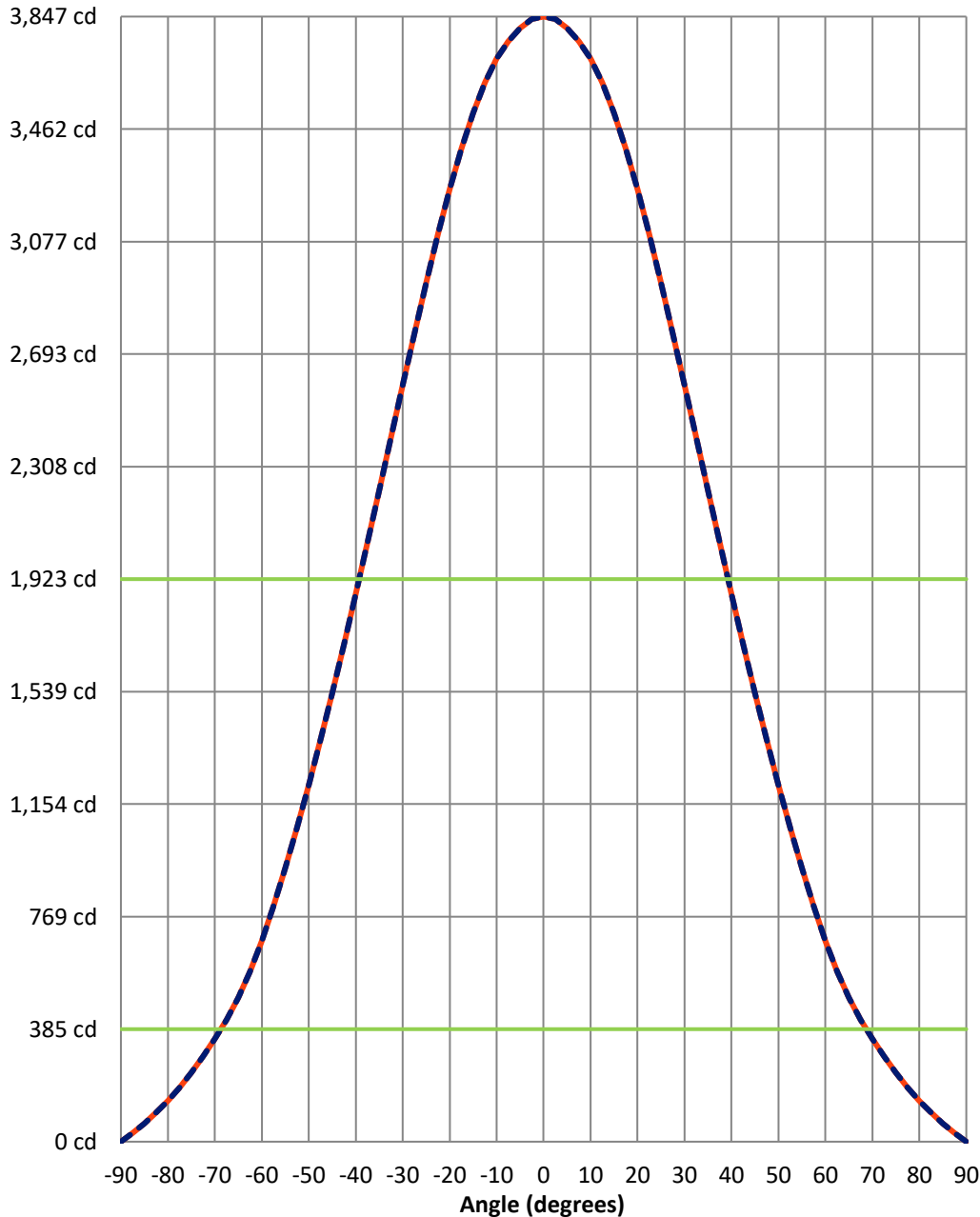


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 2996.8
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 4907.2
Efficiency: 70.9%

Spill:
Lumens: 2018.8
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°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	28.2	28.2	27.4	26.7
85°	62.1	62.1	62.1	62.1	62.1	60.7	59.9	59.2	58.5	57.0	56.3
82.5°	99.7	99.7	99.7	99.7	98.2	96.8	96.0	94.6	93.2	91.0	88.8
80°	139.4	139.4	139.4	139.4	137.2	135.8	133.6	132.1	130.0	127.1	124.2
77.5°	184.9	184.9	184.9	182.7	181.2	179.1	176.9	174.0	171.1	167.5	163.2
75°	236.1	236.1	236.1	233.2	231.1	228.9	225.3	221.7	217.4	212.3	206.5
72.5°	291.7	291.7	291.7	288.1	286.0	282.3	278.0	273.0	267.9	261.4	254.2
70°	351.7	351.7	351.7	347.3	343.7	340.1	334.3	328.6	321.3	314.1	305.4
67.5°	416.7	416.7	416.7	411.6	407.3	402.2	395.7	388.5	379.8	369.7	359.6
65°	492.5	492.5	489.6	485.3	480.2	473.0	465.0	454.9	444.1	431.1	417.4
62.5°	582.0	582.0	577.7	572.6	566.1	556.7	545.9	532.9	517.7	501.1	484.5
60°	686.0	686.0	680.9	674.4	665.1	653.5	639.1	622.5	603.7	582.7	562.5
57.5°	805.9	805.9	799.4	790.7	779.2	764.7	746.7	725.7	701.9	675.9	650.6
55°	935.8	935.8	927.9	917.8	904.1	886.7	865.1	840.5	811.6	782.0	749.5
52.5°	1073.8	1073.8	1064.4	1052.8	1036.9	1016.7	992.2	963.3	930.1	895.4	857.1
50°	1218.9	1218.9	1208.1	1195.1	1177.0	1153.2	1125.0	1091.8	1055.0	1014.6	970.5
47.5°	1374.2	1374.2	1361.9	1346.7	1325.1	1297.6	1264.4	1226.1	1184.3	1138.8	1088.9
45°	1533.7	1533.7	1520.0	1502.7	1478.9	1447.8	1411.0	1374.2	1320.7	1268.0	1210.2
42.5°	1699.8	1699.8	1683.9	1664.4	1637.0	1603.1	1561.2	1513.5	1460.8	1401.6	1338.8
40°	1872.4	1872.4	1854.4	1832.0	1801.6	1762.7	1715.7	1662.3	1603.1	1537.4	1468.0
37.5°	2048.6	2048.6	2028.4	2003.8	1969.9	1926.6	1873.9	1814.6	1748.2	1675.3	1598.7
35°	2226.2	2226.2	2203.9	2177.1	2139.6	2091.9	2034.9	1969.2	1895.5	1816.1	1730.2
32.5°	2407.5	2407.5	2382.9	2352.6	2310.0	2257.3	2194.5	2123.0	2048.6	1956.2	1862.3
30°	2586.6	2586.6	2559.9	2526.6	2481.1	2423.4	2354.8	2276.1	2188.7	2094.1	1993.0
27.5°	2762.8	2755.5	2733.2	2697.8	2648.0	2586.6	2512.2	2427.0	2332.4	2228.4	2120.1
25°	2936.1	2928.1	2903.6	2864.6	2811.2	2744.0	2663.8	2572.9	2471.0	2361.3	2242.9
22.5°	3102.2	3093.5	3067.5	3025.6	2968.6	2895.6	2809.7	2712.2	2603.9	2486.2	2361.3
20°	3256.0	3246.6	3219.9	3175.8	3116.6	3039.3	2948.4	2843.6	2728.1	2603.9	2471.0
17.5°	3394.6	3385.2	3357.1	3311.6	3256.0	3170.0	3076.2	2965.7	2843.6	2712.2	2572.9
15°	3516.6	3506.5	3477.7	3432.2	3368.6	3287.7	3188.8	3076.2	2948.4	2809.7	2663.8
12.5°	3620.6	3610.5	3580.9	3535.4	3469.7	3388.8	3287.7	3170.0	3039.3	2895.6	2744.0
10°	3702.9	3692.8	3664.7	3621.4	3553.5	3469.7	3368.6	3256.0	3116.6	2968.6	2811.2
7.5°	3762.2	3752.8	3726.8	3683.5	3621.4	3535.4	3432.2	3311.6	3175.8	3025.6	2864.6
5°	3806.9	3796.1	3770.1	3726.8	3664.7	3580.9	3477.7	3357.1	3219.9	3067.5	2903.6
2.5°	3838.0	3825.0	3796.1	3752.8	3692.8	3610.5	3506.5	3385.2	3246.6	3093.5	2928.1
0°	3846.6	3838.0	3806.9	3762.2	3702.9	3620.6	3516.6	3394.6	3256.0	3102.2	2936.1

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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°	26.0	26.0	25.3	24.6	23.8	22.4	21.7	20.9	20.2	18.8	18.1
85°	54.9	53.4	52.0	50.5	48.4	46.9	44.8	43.3	41.2	39.0	36.8
82.5°	86.7	84.5	81.6	79.4	76.5	72.9	70.0	66.4	62.8	59.9	56.3
80°	121.3	117.7	114.1	110.5	106.1	101.8	97.5	93.2	88.1	83.0	78.0
77.5°	158.9	153.8	148.8	143.0	137.9	132.1	126.4	120.6	114.1	107.6	101.1
75°	200.7	194.2	187.0	179.8	173.3	165.4	157.4	149.5	140.8	132.9	124.2
72.5°	246.2	238.3	229.6	221.0	211.6	201.5	191.4	180.5	170.4	160.3	149.5
70°	295.3	286.0	275.1	264.3	252.7	240.5	228.2	215.2	202.2	189.2	176.2
67.5°	348.1	336.5	323.5	310.5	296.1	281.6	267.2	252.0	236.1	220.2	205.1
65°	404.4	389.9	374.8	358.2	341.6	324.9	307.6	289.6	271.5	252.7	236.1
62.5°	467.2	449.1	429.7	409.4	390.7	370.4	351.7	329.3	307.6	286.7	265.7
60°	540.1	516.3	492.5	467.2	443.4	417.4	394.3	369.7	345.2	321.3	296.8
57.5°	621.7	591.4	562.5	532.2	500.4	471.5	441.9	412.3	384.9	356.7	330.0
55°	714.2	677.3	641.2	603.7	566.9	530.7	493.2	460.0	426.0	394.3	363.2
52.5°	815.3	773.4	728.6	686.0	639.1	594.3	552.4	510.5	470.8	432.5	397.2
50°	923.6	874.5	823.2	771.2	717.8	665.1	614.5	565.4	519.2	474.4	432.5
47.5°	1036.2	980.6	922.1	862.9	805.9	741.6	680.9	625.3	569.7	519.2	470.8
45°	1151.8	1088.9	1024.7	957.5	890.4	821.0	753.9	686.0	625.3	565.4	510.5
42.5°	1270.9	1200.1	1128.6	1054.3	979.9	904.1	828.3	753.9	680.9	614.5	552.4
40°	1393.7	1315.7	1234.1	1153.2	1073.8	987.1	904.1	821.0	741.6	665.1	594.3
37.5°	1516.4	1431.2	1343.1	1252.1	1161.1	1073.8	979.9	890.4	805.9	717.8	639.1
35°	1639.9	1546.0	1450.7	1351.8	1252.1	1153.2	1054.3	957.5	862.9	771.2	686.0
32.5°	1764.1	1661.6	1556.1	1450.7	1343.1	1234.1	1128.6	1024.7	922.1	823.2	728.6
30°	1886.1	1774.9	1661.6	1546.0	1431.2	1315.7	1200.1	1088.9	980.6	874.5	773.4
27.5°	2005.3	1886.1	1764.1	1639.9	1516.4	1393.7	1270.9	1151.8	1036.2	923.6	815.3
25°	2120.1	1993.0	1862.3	1730.2	1598.7	1468.0	1338.8	1210.2	1088.9	970.5	857.1
22.5°	2228.4	2094.1	1956.2	1816.1	1675.3	1537.4	1401.6	1268.0	1138.8	1014.6	895.4
20°	2332.4	2188.7	2048.6	1895.5	1748.2	1603.1	1460.8	1320.7	1184.3	1055.0	930.1
17.5°	2427.0	2276.1	2123.0	1969.2	1814.6	1662.3	1513.5	1374.2	1226.1	1091.8	963.3
15°	2512.2	2354.8	2194.5	2034.9	1873.9	1715.7	1561.2	1411.0	1264.4	1125.0	992.2
12.5°	2586.6	2423.4	2257.3	2091.9	1926.6	1762.7	1603.1	1447.8	1297.6	1153.2	1016.7
10°	2648.0	2481.1	2310.0	2139.6	1969.9	1801.6	1637.0	1478.9	1325.1	1177.0	1036.9
7.5°	2697.8	2526.6	2352.6	2177.1	2003.8	1832.0	1664.4	1502.7	1346.7	1195.1	1052.8
5°	2733.2	2559.9	2382.9	2203.9	2028.4	1854.4	1683.9	1520.0	1361.9	1208.1	1064.4
2.5°	2755.5	2586.6	2407.5	2226.2	2048.6	1872.4	1699.8	1533.7	1374.2	1218.9	1073.8
0°	2762.8	2586.6	2407.5	2226.2	2048.6	1872.4	1699.8	1533.7	1374.2	1218.9	1073.8

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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°	17.3	15.9	14.4	13.7	12.3	11.6	10.1	8.7	7.9	6.5	5.1
85°	34.7	31.8	29.6	27.4	25.3	22.4	20.2	18.1	15.2	13.0	10.1
82.5°	52.7	49.1	45.5	41.9	38.3	34.7	30.3	26.7	23.1	19.5	15.2
80°	72.9	67.2	62.1	57.0	52.0	46.9	41.2	36.1	30.3	25.3	20.2
77.5°	93.9	87.4	80.2	72.9	65.7	59.2	52.0	45.5	39.0	31.8	25.3
75°	116.3	107.6	99.7	90.3	81.6	72.2	63.5	54.9	46.9	39.0	30.3
72.5°	139.4	128.5	117.7	107.6	96.8	85.9	75.8	65.0	54.9	45.5	36.1
70°	163.2	150.2	137.2	124.9	112.6	99.7	88.1	75.8	63.5	52.0	41.2
67.5°	188.5	173.3	158.1	142.3	128.5	114.1	99.7	85.9	72.2	59.2	46.9
65°	215.9	197.9	179.1	162.5	144.4	128.5	112.6	96.8	81.6	65.7	52.0
62.5°	244.1	223.1	202.2	181.2	162.5	142.3	124.9	107.6	90.3	72.9	57.0
60°	273.0	249.1	225.3	202.2	179.1	158.1	137.2	117.7	99.7	80.2	62.1
57.5°	302.6	275.8	249.1	223.1	197.9	173.3	150.2	128.5	107.6	87.4	67.2
55°	332.9	302.6	273.0	244.1	215.9	188.5	163.2	139.4	116.3	93.9	72.9
52.5°	363.2	330.0	296.8	265.7	236.1	205.1	176.2	149.5	124.2	101.1	78.0
50°	394.3	356.7	321.3	286.7	252.7	220.2	189.2	160.3	132.9	107.6	83.0
47.5°	426.0	384.9	345.2	307.6	271.5	236.1	202.2	170.4	140.8	114.1	88.1
45°	460.0	412.3	369.7	329.3	289.6	252.0	215.2	180.5	149.5	120.6	93.2
42.5°	493.2	441.9	394.3	351.7	307.6	267.2	228.2	191.4	157.4	126.4	97.5
40°	530.7	471.5	417.4	370.4	324.9	281.6	240.5	201.5	165.4	132.1	101.8
37.5°	566.9	500.4	443.4	390.7	341.6	296.1	252.7	211.6	173.3	137.9	106.1
35°	603.7	532.2	467.2	409.4	358.2	310.5	264.3	221.0	179.8	143.0	110.5
32.5°	641.2	562.5	492.5	429.7	374.8	323.5	275.1	229.6	187.0	148.8	114.1
30°	677.3	591.4	516.3	449.1	389.9	336.5	286.0	238.3	194.2	153.8	117.7
27.5°	714.2	621.7	540.1	467.2	404.4	348.1	295.3	246.2	200.7	158.9	121.3
25°	749.5	650.6	562.5	484.5	417.4	359.6	305.4	254.2	206.5	163.2	124.2
22.5°	782.0	675.9	582.7	501.1	431.1	369.7	314.1	261.4	212.3	167.5	127.1
20°	811.6	701.9	603.7	517.7	444.1	379.8	321.3	267.9	217.4	171.1	130.0
17.5°	840.5	725.7	622.5	532.9	454.9	388.5	328.6	273.0	221.7	174.0	132.1
15°	865.1	746.7	639.1	545.9	465.0	395.7	334.3	278.0	225.3	176.9	133.6
12.5°	886.7	764.7	653.5	556.7	473.0	402.2	340.1	282.3	228.9	179.1	135.8
10°	904.1	779.2	665.1	566.1	480.2	407.3	343.7	286.0	231.1	181.2	137.2
7.5°	917.8	790.7	674.4	572.6	485.3	411.6	347.3	288.1	233.2	182.7	139.4
5°	927.9	799.4	680.9	577.7	489.6	416.7	351.7	291.7	236.1	184.9	139.4
2.5°	935.8	805.9	686.0	582.0	492.5	416.7	351.7	291.7	236.1	184.9	139.4
0°	935.8	805.9	686.0	582.0	492.5	416.7	351.7	291.7	236.1	184.9	139.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.6	2.9	1.4	0.0
85°	7.9	5.1	2.9	0.0
82.5°	11.6	7.9	3.6	0.0
80°	15.2	10.1	5.1	0.0
77.5°	19.5	13.0	6.5	0.0
75°	23.1	15.2	7.9	0.0
72.5°	26.7	18.1	8.7	0.0
70°	30.3	20.2	10.1	0.0
67.5°	34.7	22.4	11.6	0.0
65°	38.3	25.3	12.3	0.0
62.5°	41.9	27.4	13.7	0.0
60°	45.5	29.6	14.4	0.0
57.5°	49.1	31.8	15.9	0.0
55°	52.7	34.7	17.3	0.0
52.5°	56.3	36.8	18.1	0.0
50°	59.9	39.0	18.8	0.0
47.5°	62.8	41.2	20.2	0.0
45°	66.4	43.3	20.9	0.0
42.5°	70.0	44.8	21.7	0.0
40°	72.9	46.9	22.4	0.0
37.5°	76.5	48.4	23.8	0.0
35°	79.4	50.5	24.6	0.0
32.5°	81.6	52.0	25.3	0.0
30°	84.5	53.4	26.0	0.0
27.5°	86.7	54.9	26.0	0.0
25°	88.8	56.3	26.7	0.0
22.5°	91.0	57.0	27.4	0.0
20°	93.2	58.5	28.2	0.0
17.5°	94.6	59.2	28.2	0.0
15°	96.0	59.9	29.6	0.0
12.5°	96.8	60.7	29.6	0.0
10°	98.2	62.1	29.6	0.0
7.5°	99.7	62.1	29.6	0.0
5°	99.7	62.1	29.6	0.0
2.5°	99.7	62.1	29.6	0.0
0°	99.7	62.1	29.6	0.0

(END OF REPORT)