

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: P623988

Luminaire Tested: **IFLD-S-SA2D-760-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623988
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-760-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

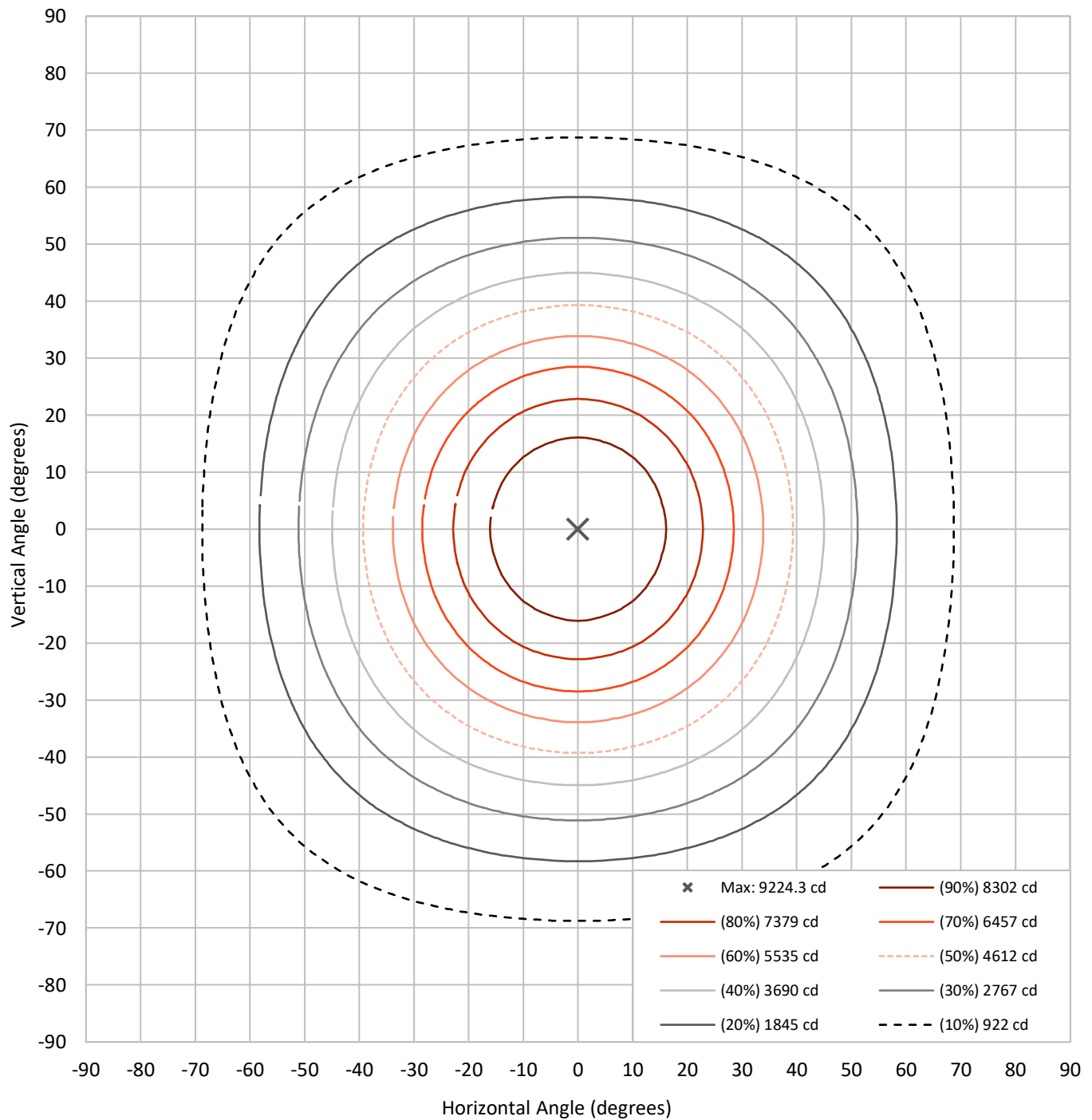
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	16608.6 lumens	Max Intensity:	9224.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	134.0 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	7186.4 lumens	Field Lumens:	11767.5 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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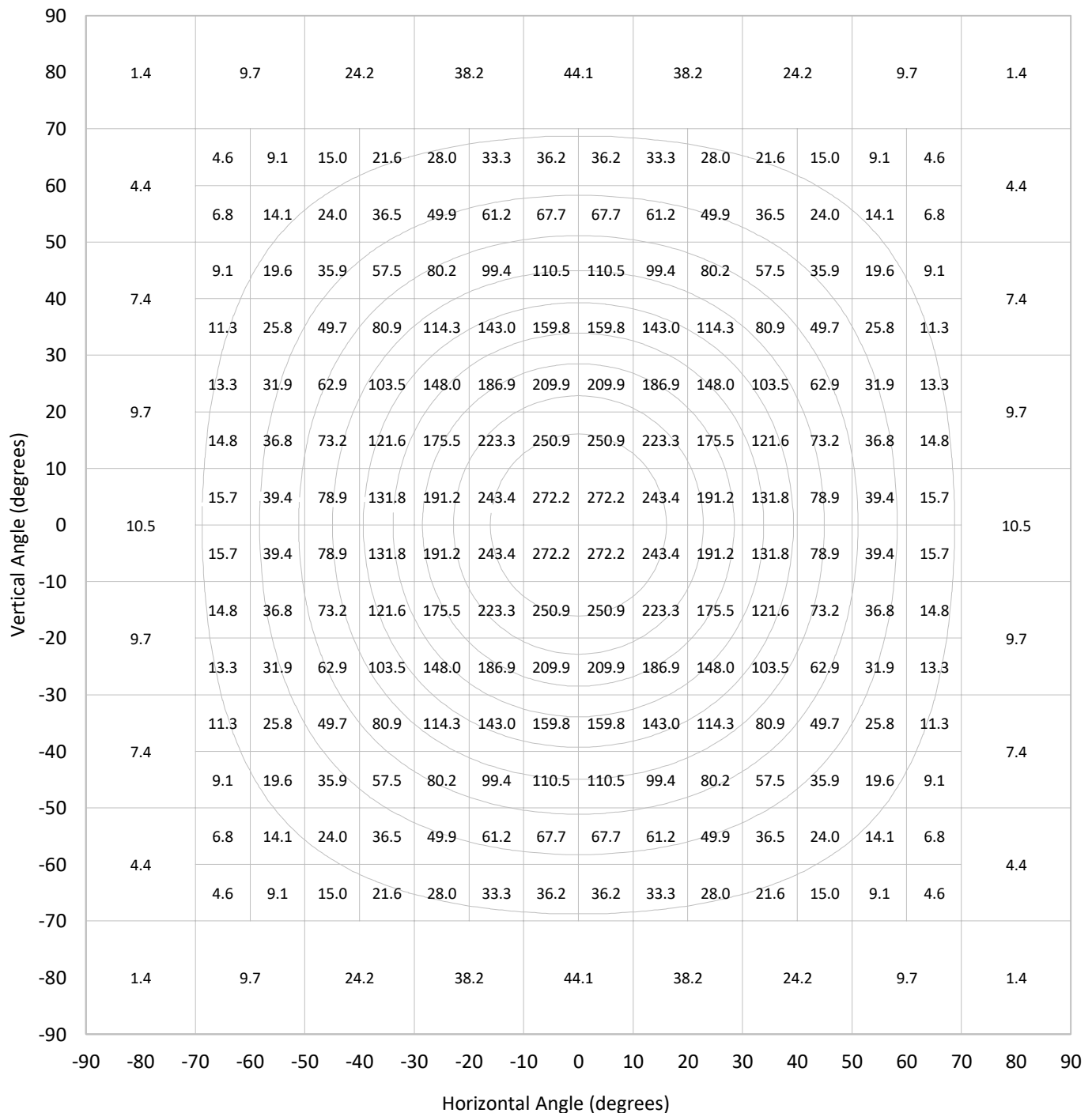
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Iso-Candela Plot



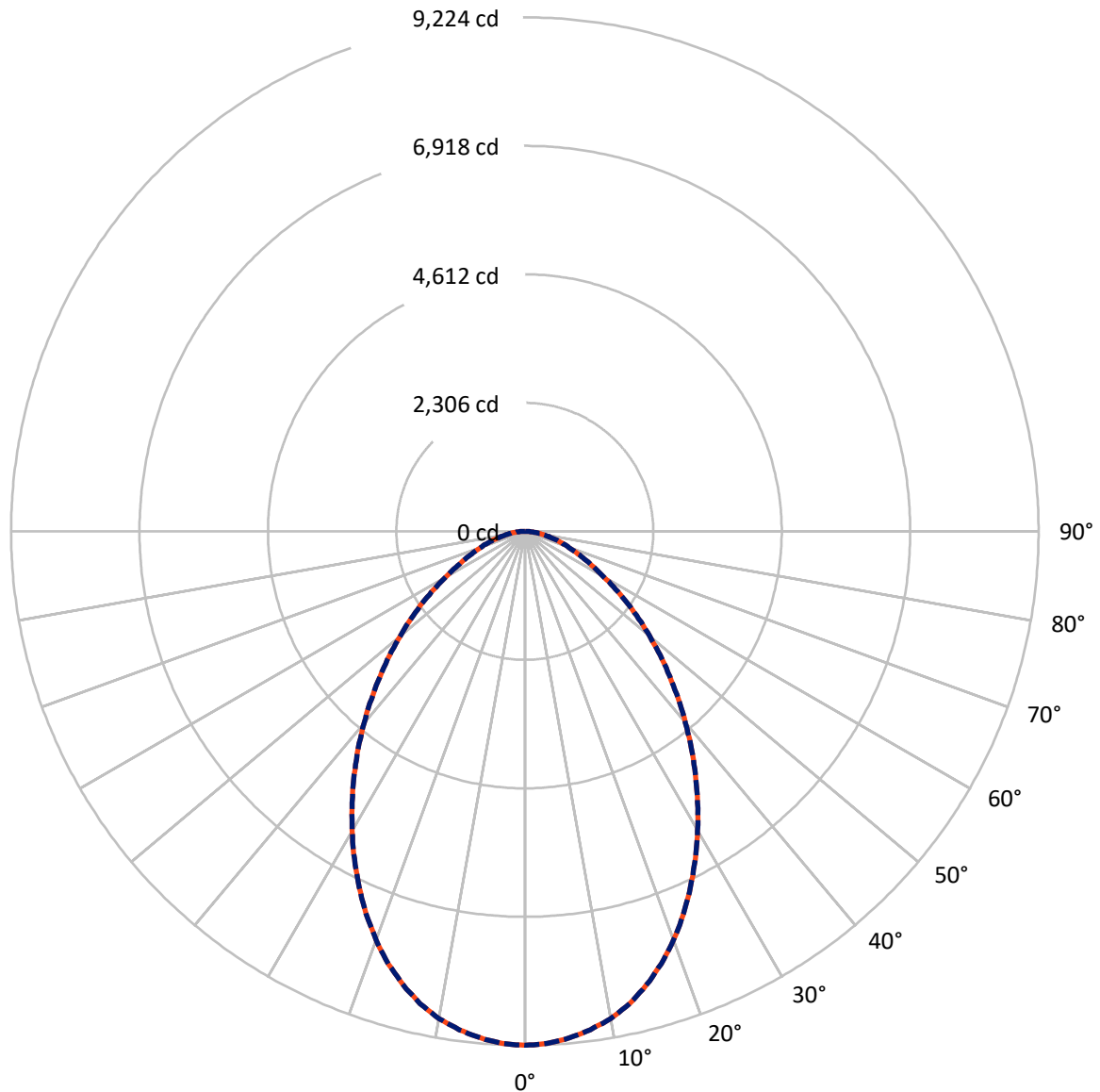
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Lumen Table



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Luminous Intensity Polar Plot

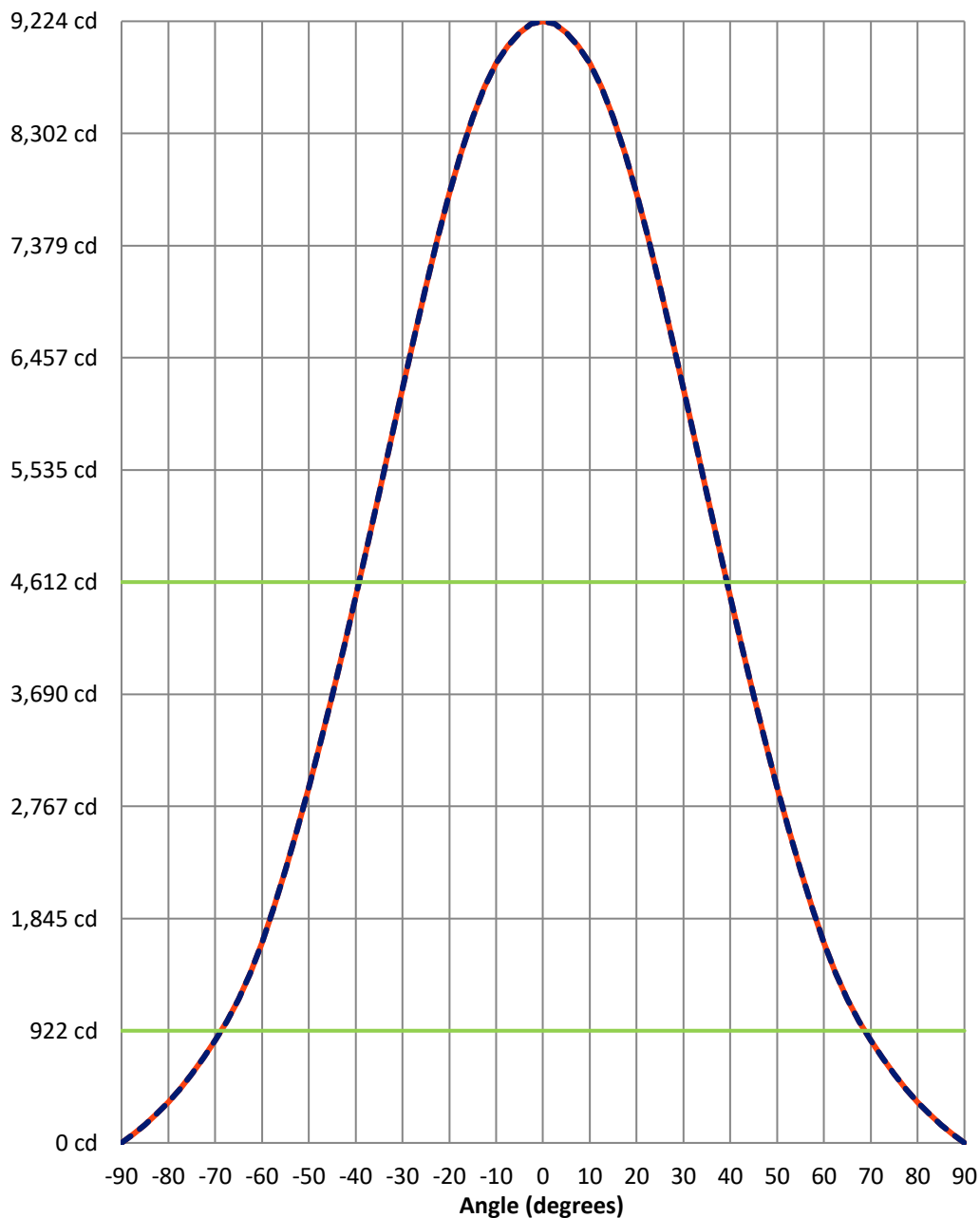


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 7186.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 11767.5
Efficiency: 70.9%

Spill:

Lumens: 4841.2
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°	71.0	71.0	71.0	71.0	71.0	71.0	71.0	67.5	67.5	65.8	64.1
85°	148.9	148.9	148.9	148.9	148.9	145.5	143.7	142.0	140.3	136.8	135.1
82.5°	239.0	239.0	239.0	239.0	235.5	232.0	230.3	226.8	223.4	218.2	213.0
80°	334.2	334.2	334.2	334.2	329.0	325.5	320.3	316.9	311.7	304.8	297.8
77.5°	443.3	443.3	443.3	438.1	434.6	429.4	424.2	417.3	410.4	401.7	391.3
75°	566.2	566.2	566.2	559.3	554.1	548.9	540.3	531.6	521.2	509.1	495.2
72.5°	699.6	699.6	699.6	690.9	685.7	677.1	666.7	654.6	642.4	626.8	609.5
70°	843.3	843.3	843.3	832.9	824.3	815.6	801.7	787.9	770.6	753.3	732.5
67.5°	999.1	999.1	999.1	987.0	976.6	964.5	948.9	931.6	910.8	886.6	862.3
65°	1181.0	1181.0	1174.0	1163.6	1151.5	1134.2	1115.2	1090.9	1064.9	1033.8	1000.9
62.5°	1395.7	1395.7	1385.3	1373.2	1357.6	1335.1	1309.1	1277.9	1241.6	1201.7	1161.9
60°	1645.0	1645.0	1632.9	1617.3	1594.8	1567.1	1532.5	1492.7	1447.6	1397.4	1348.9
57.5°	1932.5	1932.5	1916.9	1896.1	1868.4	1833.8	1790.5	1740.3	1683.1	1620.8	1560.2
55°	2244.2	2244.2	2225.1	2200.9	2168.0	2126.4	2074.5	2015.6	1946.3	1875.3	1797.4
52.5°	2574.9	2574.9	2552.4	2524.7	2486.6	2438.1	2379.2	2310.0	2230.3	2147.2	2055.4
50°	2923.0	2923.0	2897.0	2865.8	2822.5	2765.4	2697.9	2618.2	2529.9	2432.9	2327.3
47.5°	3295.3	3295.3	3265.8	3229.5	3177.5	3111.7	3032.1	2940.3	2839.9	2730.8	2611.3
45°	3678.0	3678.0	3645.1	3603.5	3546.4	3471.9	3383.6	3295.3	3167.1	3040.7	2902.2
42.5°	4076.2	4076.2	4038.1	3991.4	3925.6	3844.2	3743.8	3629.5	3503.1	3361.1	3210.4
40°	4490.1	4490.1	4446.8	4393.1	4320.4	4226.9	4114.3	3986.2	3844.2	3686.6	3520.4
37.5°	4912.6	4912.6	4864.1	4805.2	4723.9	4620.0	4493.6	4351.6	4192.2	4017.4	3833.8
35°	5338.6	5338.6	5284.9	5220.8	5130.8	5016.5	4879.7	4722.1	4545.5	4355.0	4149.0
32.5°	5773.2	5773.2	5714.3	5641.6	5539.4	5413.0	5262.4	5091.0	4912.6	4691.0	4465.8
30°	6202.7	6202.7	6138.6	6058.9	5949.8	5811.3	5646.8	5458.1	5248.5	5021.7	4779.3
27.5°	6625.2	6607.9	6554.2	6469.3	6349.8	6202.7	6024.3	5820.0	5593.1	5343.8	5084.0
25°	7040.8	7021.7	6962.8	6869.3	6741.2	6580.2	6387.9	6169.8	5925.6	5662.4	5378.4
22.5°	7439.0	7418.3	7355.9	7255.5	7118.7	6943.8	6737.7	6504.0	6244.2	5962.0	5662.4
20°	7807.9	7785.4	7721.3	7615.7	7473.7	7288.4	7070.2	6819.1	6542.1	6244.2	5925.6
17.5°	8140.3	8117.8	8050.3	7941.2	7807.9	7601.8	7376.7	7111.8	6819.1	6504.0	6169.8
15°	8433.0	8408.7	8339.5	8230.4	8078.0	7884.1	7646.8	7376.7	7070.2	6737.7	6387.9
12.5°	8682.3	8658.1	8587.1	8478.0	8320.4	8126.5	7884.1	7601.8	7288.4	6943.8	6580.2
10°	8879.7	8855.5	8788.0	8684.1	8521.3	8320.4	8078.0	7807.9	7473.7	7118.7	6741.2
7.5°	9021.7	8999.2	8936.9	8833.0	8684.1	8478.0	8230.4	7941.2	7615.7	7255.5	6869.3
5°	9129.1	9103.1	9040.8	8936.9	8788.0	8587.1	8339.5	8050.3	7721.3	7355.9	6962.8
2.5°	9203.6	9172.4	9103.1	8999.2	8855.5	8658.1	8408.7	8117.8	7785.4	7418.3	7021.7
0°	9224.3	9203.6	9129.1	9021.7	8879.7	8682.3	8433.0	8140.3	7807.9	7439.0	7040.8

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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°	62.3	62.3	60.6	58.9	57.1	53.7	51.9	50.2	48.5	45.0	43.3
85°	131.6	128.1	124.7	121.2	116.0	112.6	107.4	103.9	98.7	93.5	88.3
82.5°	207.8	202.6	195.7	190.5	183.6	174.9	168.0	159.3	150.7	143.7	135.1
80°	290.9	282.3	273.6	264.9	254.5	244.2	233.8	223.4	211.3	199.1	187.0
77.5°	381.0	368.8	356.7	342.9	330.7	316.9	303.0	289.2	273.6	258.0	242.4
75°	481.4	465.8	448.5	431.2	415.6	396.5	377.5	358.4	337.7	318.6	297.8
72.5°	590.5	571.4	550.7	529.9	507.4	483.1	458.9	432.9	408.7	384.4	358.4
70°	708.2	685.7	659.7	633.8	606.1	576.6	547.2	516.0	484.9	453.7	422.5
67.5°	834.6	806.9	775.8	744.6	710.0	675.3	640.7	604.3	566.2	528.1	491.8
65°	969.7	935.1	898.7	858.9	819.1	779.2	737.7	694.4	651.1	606.1	566.2
62.5°	1120.4	1077.1	1030.3	981.8	936.8	888.3	843.3	789.6	737.7	687.5	637.2
60°	1295.3	1238.1	1181.0	1120.4	1063.2	1000.9	945.5	886.6	827.7	770.6	711.7
57.5°	1490.9	1418.2	1348.9	1276.2	1200.0	1130.7	1059.8	988.8	923.0	855.4	791.3
55°	1712.6	1624.3	1537.7	1447.6	1359.3	1272.7	1182.7	1103.0	1021.7	945.5	871.0
52.5°	1955.0	1854.6	1747.2	1645.0	1532.5	1425.1	1324.7	1224.3	1129.0	1037.2	952.4
50°	2214.7	2097.0	1974.0	1849.4	1721.2	1594.8	1473.6	1355.9	1245.0	1137.7	1037.2
47.5°	2484.9	2351.5	2211.3	2069.3	1932.5	1778.4	1632.9	1499.6	1366.2	1245.0	1129.0
45°	2761.9	2611.3	2457.2	2296.1	2135.1	1968.9	1807.8	1645.0	1499.6	1355.9	1224.3
42.5°	3047.6	2878.0	2706.5	2528.2	2349.8	2168.0	1986.2	1807.8	1632.9	1473.6	1324.7
40°	3342.0	3155.0	2959.3	2765.4	2574.9	2367.1	2168.0	1968.9	1778.4	1594.8	1425.1
37.5°	3636.4	3432.1	3220.8	3002.6	2784.4	2574.9	2349.8	2135.1	1932.5	1721.2	1532.5
35°	3932.5	3707.4	3478.8	3241.6	3002.6	2765.4	2528.2	2296.1	2069.3	1849.4	1645.0
32.5°	4230.3	3984.5	3731.6	3478.8	3220.8	2959.3	2706.5	2457.2	2211.3	1974.0	1747.2
30°	4523.0	4256.3	3984.5	3707.4	3432.1	3155.0	2878.0	2611.3	2351.5	2097.0	1854.6
27.5°	4808.7	4523.0	4230.3	3932.5	3636.4	3342.0	3047.6	2761.9	2484.9	2214.7	1955.0
25°	5084.0	4779.3	4465.8	4149.0	3833.8	3520.4	3210.4	2902.2	2611.3	2327.3	2055.4
22.5°	5343.8	5021.7	4691.0	4355.0	4017.4	3686.6	3361.1	3040.7	2730.8	2432.9	2147.2
20°	5593.1	5248.5	4912.6	4545.5	4192.2	3844.2	3503.1	3167.1	2839.9	2529.9	2230.3
17.5°	5820.0	5458.1	5091.0	4722.1	4351.6	3986.2	3629.5	3295.3	2940.3	2618.2	2310.0
15°	6024.3	5646.8	5262.4	4879.7	4493.6	4114.3	3743.8	3383.6	3032.1	2697.9	2379.2
12.5°	6202.7	5811.3	5413.0	5016.5	4620.0	4226.9	3844.2	3471.9	3111.7	2765.4	2438.1
10°	6349.8	5949.8	5539.4	5130.8	4723.9	4320.4	3925.6	3546.4	3177.5	2822.5	2486.6
7.5°	6469.3	6058.9	5641.6	5220.8	4805.2	4393.1	3991.4	3603.5	3229.5	2865.8	2524.7
5°	6554.2	6138.6	5714.3	5284.9	4864.1	4446.8	4038.1	3645.1	3265.8	2897.0	2552.4
2.5°	6607.9	6202.7	5773.2	5338.6	4912.6	4490.1	4076.2	3678.0	3295.3	2923.0	2574.9
0°	6625.2	6202.7	5773.2	5338.6	4912.6	4490.1	4076.2	3678.0	3295.3	2923.0	2574.9

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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°	41.6	38.1	34.6	32.9	29.4	27.7	24.2	20.8	19.0	15.6	12.1
85°	83.1	76.2	71.0	65.8	60.6	53.7	48.5	43.3	36.4	31.2	24.2
82.5°	126.4	117.8	109.1	100.4	91.8	83.1	72.7	64.1	55.4	46.8	36.4
80°	174.9	161.0	148.9	136.8	124.7	112.6	98.7	86.6	72.7	60.6	48.5
77.5°	225.1	209.5	192.2	174.9	157.6	142.0	124.7	109.1	93.5	76.2	60.6
75°	278.8	258.0	239.0	216.5	195.7	173.2	152.4	131.6	112.6	93.5	72.7
72.5°	334.2	308.2	282.3	258.0	232.0	206.1	181.8	155.8	131.6	109.1	86.6
70°	391.3	360.2	329.0	299.6	270.1	239.0	211.3	181.8	152.4	124.7	98.7
67.5°	452.0	415.6	379.2	341.1	308.2	273.6	239.0	206.1	173.2	142.0	112.6
65°	517.8	474.5	429.4	389.6	346.3	308.2	270.1	232.0	195.7	157.6	124.7
62.5°	585.3	535.1	484.9	434.6	389.6	341.1	299.6	258.0	216.5	174.9	136.8
60°	654.6	597.4	540.3	484.9	429.4	379.2	329.0	282.3	239.0	192.2	148.9
57.5°	725.5	661.5	597.4	535.1	474.5	415.6	360.2	308.2	258.0	209.5	161.0
55°	798.3	725.5	654.6	585.3	517.8	452.0	391.3	334.2	278.8	225.1	174.9
52.5°	871.0	791.3	711.7	637.2	566.2	491.8	422.5	358.4	297.8	242.4	187.0
50°	945.5	855.4	770.6	687.5	606.1	528.1	453.7	384.4	318.6	258.0	199.1
47.5°	1021.7	923.0	827.7	737.7	651.1	566.2	484.9	408.7	337.7	273.6	211.3
45°	1103.0	988.8	886.6	789.6	694.4	604.3	516.0	432.9	358.4	289.2	223.4
42.5°	1182.7	1059.8	945.5	843.3	737.7	640.7	547.2	458.9	377.5	303.0	233.8
40°	1272.7	1130.7	1000.9	888.3	779.2	675.3	576.6	483.1	396.5	316.9	244.2
37.5°	1359.3	1200.0	1063.2	936.8	819.1	710.0	606.1	507.4	415.6	330.7	254.5
35°	1447.6	1276.2	1120.4	981.8	858.9	744.6	633.8	529.9	431.2	342.9	264.9
32.5°	1537.7	1348.9	1181.0	1030.3	898.7	775.8	659.7	550.7	448.5	356.7	273.6
30°	1624.3	1418.2	1238.1	1077.1	935.1	806.9	685.7	571.4	465.8	368.8	282.3
27.5°	1712.6	1490.9	1295.3	1120.4	969.7	834.6	708.2	590.5	481.4	381.0	290.9
25°	1797.4	1560.2	1348.9	1161.9	1000.9	862.3	732.5	609.5	495.2	391.3	297.8
22.5°	1875.3	1620.8	1397.4	1201.7	1033.8	886.6	753.3	626.8	509.1	401.7	304.8
20°	1946.3	1683.1	1447.6	1241.6	1064.9	910.8	770.6	642.4	521.2	410.4	311.7
17.5°	2015.6	1740.3	1492.7	1277.9	1090.9	931.6	787.9	654.6	531.6	417.3	316.9
15°	2074.5	1790.5	1532.5	1309.1	1115.2	948.9	801.7	666.7	540.3	424.2	320.3
12.5°	2126.4	1833.8	1567.1	1335.1	1134.2	964.5	815.6	677.1	548.9	429.4	325.5
10°	2168.0	1868.4	1594.8	1357.6	1151.5	976.6	824.3	685.7	554.1	434.6	329.0
7.5°	2200.9	1896.1	1617.3	1373.2	1163.6	987.0	832.9	690.9	559.3	438.1	334.2
5°	2225.1	1916.9	1632.9	1385.3	1174.0	999.1	843.3	699.6	566.2	443.3	334.2
2.5°	2244.2	1932.5	1645.0	1395.7	1181.0	999.1	843.3	699.6	566.2	443.3	334.2
0°	2244.2	1932.5	1645.0	1395.7	1181.0	999.1	843.3	699.6	566.2	443.3	334.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.7	6.9	3.5	0.0
85°	19.0	12.1	6.9	0.0
82.5°	27.7	19.0	8.7	0.0
80°	36.4	24.2	12.1	0.0
77.5°	46.8	31.2	15.6	0.0
75°	55.4	36.4	19.0	0.0
72.5°	64.1	43.3	20.8	0.0
70°	72.7	48.5	24.2	0.0
67.5°	83.1	53.7	27.7	0.0
65°	91.8	60.6	29.4	0.0
62.5°	100.4	65.8	32.9	0.0
60°	109.1	71.0	34.6	0.0
57.5°	117.8	76.2	38.1	0.0
55°	126.4	83.1	41.6	0.0
52.5°	135.1	88.3	43.3	0.0
50°	143.7	93.5	45.0	0.0
47.5°	150.7	98.7	48.5	0.0
45°	159.3	103.9	50.2	0.0
42.5°	168.0	107.4	51.9	0.0
40°	174.9	112.6	53.7	0.0
37.5°	183.6	116.0	57.1	0.0
35°	190.5	121.2	58.9	0.0
32.5°	195.7	124.7	60.6	0.0
30°	202.6	128.1	62.3	0.0
27.5°	207.8	131.6	62.3	0.0
25°	213.0	135.1	64.1	0.0
22.5°	218.2	136.8	65.8	0.0
20°	223.4	140.3	67.5	0.0
17.5°	226.8	142.0	67.5	0.0
15°	230.3	143.7	71.0	0.0
12.5°	232.0	145.5	71.0	0.0
10°	235.5	148.9	71.0	0.0
7.5°	239.0	148.9	71.0	0.0
5°	239.0	148.9	71.0	0.0
2.5°	239.0	148.9	71.0	0.0
0°	239.0	148.9	71.0	0.0

(END OF REPORT)