

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: P624583

Luminaire Tested: **IFLD-S-SA2B-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624583
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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

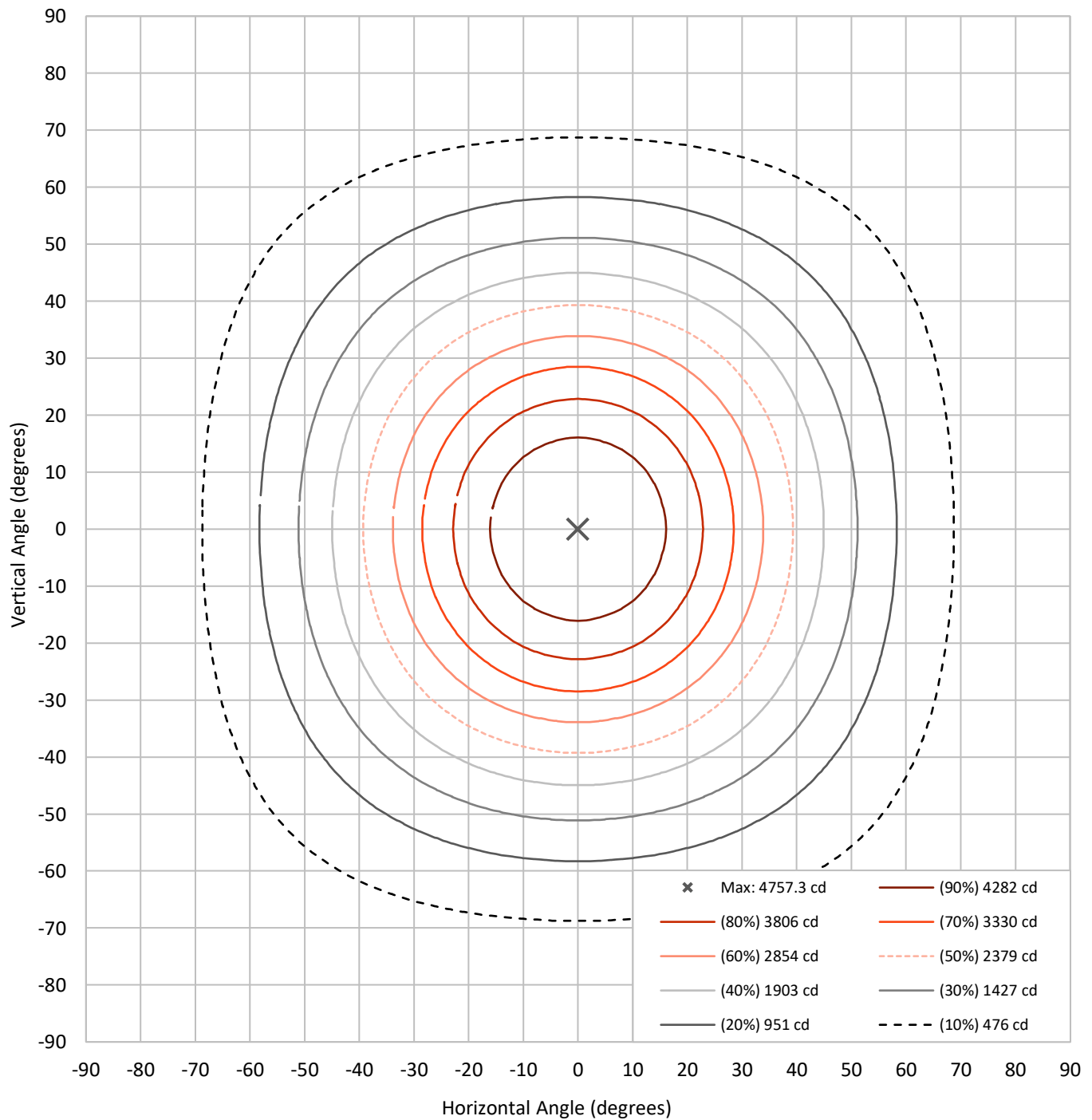
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	8565.6 lumens	Max Intensity:	4757.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	104.0 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:	3706.2 lumens	Field Lumens:	6068.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	82.4		
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		



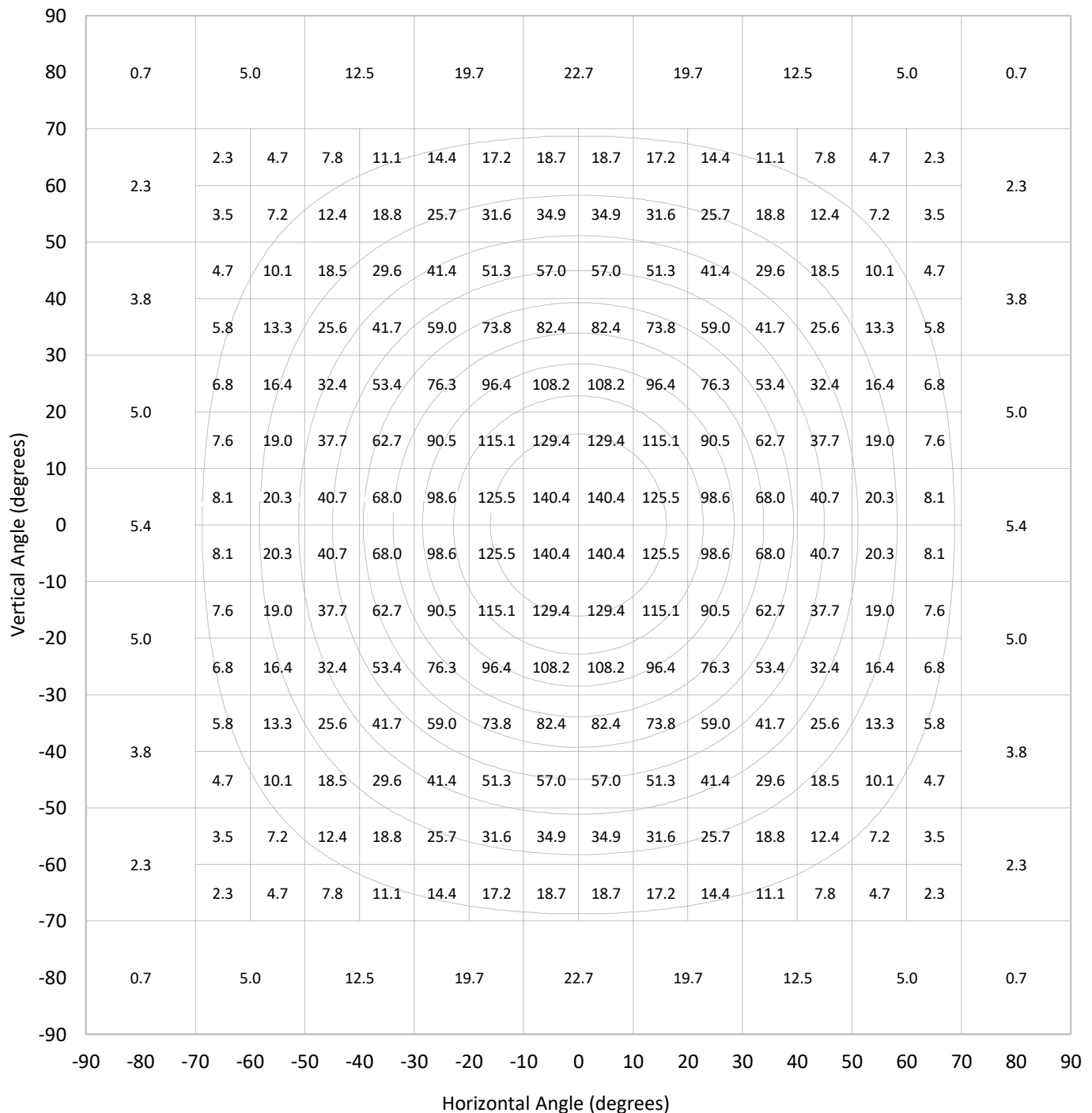
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Iso-Candela Plot



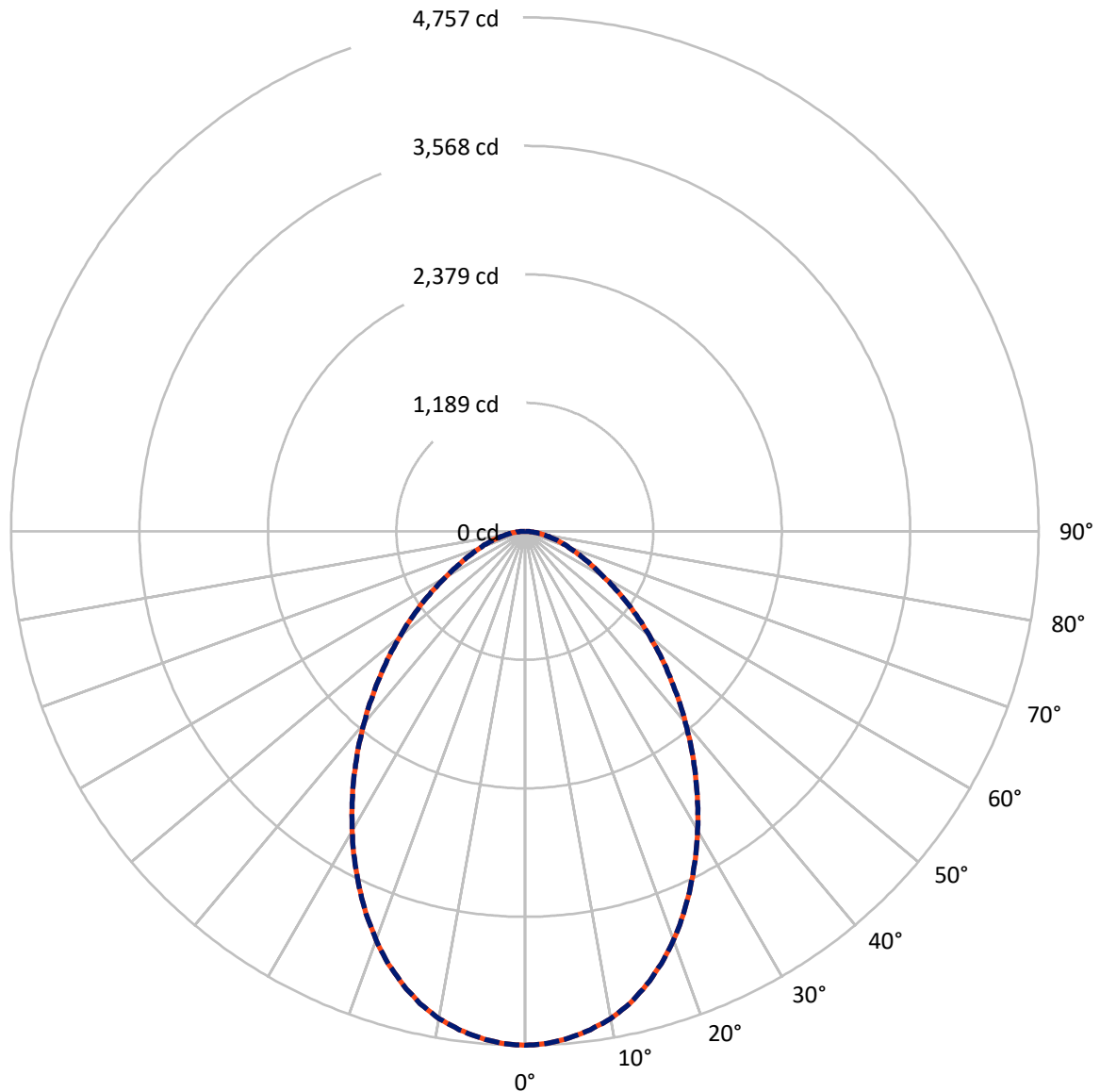
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Lumen Table



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Luminous Intensity Polar Plot

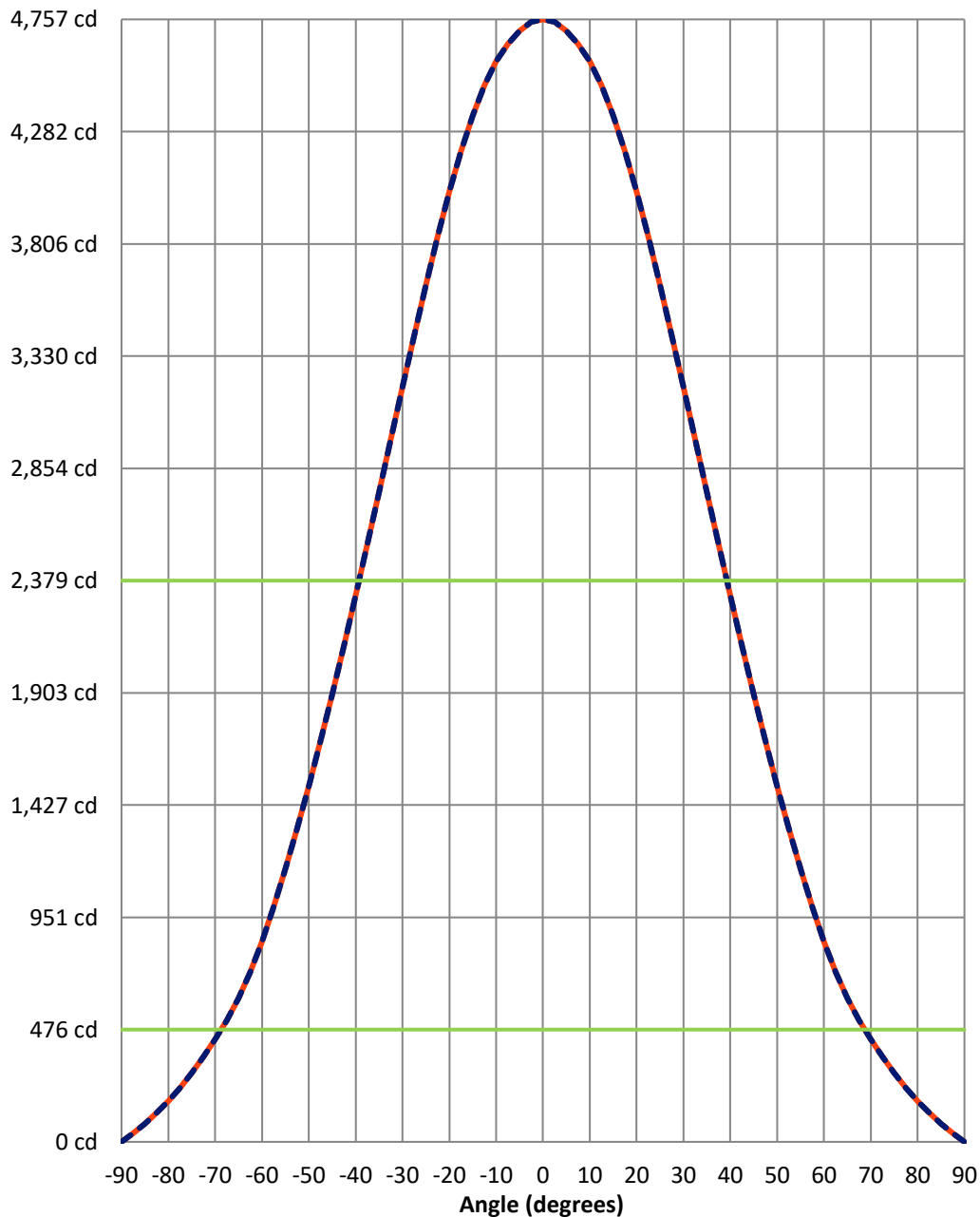


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 3706.2
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 6068.8
Efficiency: 70.9%

Spill:

Lumens: 2496.7
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°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	34.8	34.8	33.9	33.0
85°	76.8	76.8	76.8	76.8	76.8	75.0	74.1	73.2	72.3	70.6	69.7
82.5°	123.2	123.2	123.2	123.2	121.5	119.7	118.8	117.0	115.2	112.5	109.8
80°	172.4	172.4	172.4	172.4	169.7	167.9	165.2	163.4	160.7	157.2	153.6
77.5°	228.6	228.6	228.6	225.9	224.2	221.5	218.8	215.2	211.7	207.2	201.8
75°	292.0	292.0	292.0	288.5	285.8	283.1	278.6	274.2	268.8	262.6	255.4
72.5°	360.8	360.8	360.8	356.3	353.6	349.2	343.8	337.6	331.3	323.3	314.4
70°	434.9	434.9	434.9	429.6	425.1	420.6	413.5	406.3	397.4	388.5	377.8
67.5°	515.3	515.3	515.3	509.0	503.7	497.4	489.4	480.5	469.7	457.2	444.7
65°	609.1	609.1	605.5	600.1	593.9	584.9	575.1	562.6	549.2	533.1	516.2
62.5°	719.8	719.8	714.4	708.2	700.1	688.5	675.1	659.1	640.3	619.8	599.2
60°	848.4	848.4	842.1	834.1	822.5	808.2	790.3	769.8	746.6	720.7	695.7
57.5°	996.6	996.6	988.6	977.9	963.6	945.7	923.4	897.5	868.0	835.9	804.6
55°	1157.4	1157.4	1147.6	1135.1	1118.1	1096.7	1069.9	1039.5	1003.8	967.2	927.0
52.5°	1328.0	1328.0	1316.4	1302.1	1282.4	1257.4	1227.0	1191.3	1150.2	1107.4	1060.0
50°	1507.5	1507.5	1494.1	1478.0	1455.7	1426.2	1391.4	1350.3	1304.7	1254.7	1200.3
47.5°	1699.5	1699.5	1684.3	1665.5	1638.7	1604.8	1563.7	1516.4	1464.6	1408.3	1346.7
45°	1896.8	1896.8	1879.9	1858.4	1829.0	1790.6	1745.0	1699.5	1633.4	1568.2	1496.7
42.5°	2102.2	2102.2	2082.6	2058.5	2024.5	1982.6	1930.8	1871.8	1806.6	1733.4	1655.7
40°	2315.7	2315.7	2293.3	2265.7	2228.2	2179.9	2121.9	2055.8	1982.6	1901.3	1815.6
37.5°	2533.6	2533.6	2508.6	2478.2	2436.2	2382.7	2317.5	2244.2	2162.1	2071.9	1977.2
35°	2753.3	2753.3	2725.6	2692.5	2646.1	2587.2	2516.6	2435.3	2344.3	2246.0	2139.7
32.5°	2977.4	2977.4	2947.1	2909.6	2856.9	2791.7	2714.0	2625.6	2533.6	2419.3	2303.2
30°	3198.9	3198.9	3165.9	3124.8	3068.5	2997.1	2912.2	2814.9	2706.8	2589.8	2464.8
27.5°	3416.8	3407.9	3380.2	3336.4	3274.8	3198.9	3106.9	3001.5	2884.5	2755.9	2622.0
25°	3631.1	3621.3	3590.9	3542.7	3476.6	3393.6	3294.5	3181.9	3056.0	2920.3	2773.8
22.5°	3836.5	3825.8	3793.7	3741.9	3671.3	3581.1	3474.9	3354.3	3220.3	3074.8	2920.3
20°	4026.8	4015.1	3982.1	3927.6	3854.4	3758.8	3646.3	3516.8	3373.9	3220.3	3056.0
17.5°	4198.2	4186.6	4151.8	4095.5	4026.8	3920.5	3804.4	3667.7	3516.8	3354.3	3181.9
15°	4349.1	4336.6	4300.9	4244.7	4166.1	4066.0	3943.7	3804.4	3646.3	3474.9	3294.5
12.5°	4477.7	4465.2	4428.6	4372.4	4291.1	4191.1	4066.0	3920.5	3758.8	3581.1	3393.6
10°	4579.6	4567.0	4532.2	4478.6	4394.7	4291.1	4166.1	4026.8	3854.4	3671.3	3476.6
7.5°	4652.8	4641.2	4609.0	4555.4	4478.6	4372.4	4244.7	4095.5	3927.6	3741.9	3542.7
5°	4708.2	4694.8	4662.6	4609.0	4532.2	4428.6	4300.9	4151.8	3982.1	3793.7	3590.9
2.5°	4746.6	4730.5	4694.8	4641.2	4567.0	4465.2	4336.6	4186.6	4015.1	3825.8	3621.3
0°	4757.3	4746.6	4708.2	4652.8	4579.6	4477.7	4349.1	4198.2	4026.8	3836.5	3631.1

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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°	32.1	32.1	31.3	30.4	29.5	27.7	26.8	25.9	25.0	23.2	22.3
85°	67.9	66.1	64.3	62.5	59.8	58.0	55.4	53.6	50.9	48.2	45.5
82.5°	107.2	104.5	100.9	98.2	94.7	90.2	86.6	82.2	77.7	74.1	69.7
80°	150.0	145.6	141.1	136.6	131.3	125.9	120.6	115.2	109.0	102.7	96.4
77.5°	196.5	190.2	184.0	176.8	170.6	163.4	156.3	149.1	141.1	133.1	125.0
75°	248.3	240.2	231.3	222.4	214.3	204.5	194.7	184.9	174.1	164.3	153.6
72.5°	304.5	294.7	284.0	273.3	261.7	249.2	236.7	223.3	210.8	198.3	184.9
70°	365.3	353.6	340.3	326.9	312.6	297.4	282.2	266.1	250.1	234.0	217.9
67.5°	430.4	416.2	400.1	384.0	366.1	348.3	330.4	311.7	292.0	272.4	253.6
65°	500.1	482.2	463.5	443.0	422.4	401.9	380.4	358.1	335.8	312.6	292.0
62.5°	577.8	555.5	531.4	506.4	483.1	458.1	434.9	407.2	380.4	354.5	328.6
60°	668.0	638.5	609.1	577.8	548.3	516.2	487.6	457.2	426.9	397.4	367.0
57.5°	768.9	731.4	695.7	658.2	618.9	583.2	546.5	509.9	476.0	441.2	408.1
55°	883.2	837.7	793.0	746.6	701.0	656.4	610.0	568.9	526.9	487.6	449.2
52.5°	1008.3	956.5	901.1	848.4	790.3	735.0	683.2	631.4	582.3	534.9	491.2
50°	1142.2	1081.5	1018.1	953.8	887.7	822.5	760.0	699.3	642.1	586.7	534.9
47.5°	1281.5	1212.8	1140.4	1067.2	996.6	917.2	842.1	773.4	704.6	642.1	582.3
45°	1424.4	1346.7	1267.2	1184.2	1101.1	1015.4	932.3	848.4	773.4	699.3	631.4
42.5°	1571.8	1484.2	1395.8	1303.9	1211.9	1118.1	1024.3	932.3	842.1	760.0	683.2
40°	1723.6	1627.1	1526.2	1426.2	1328.0	1220.8	1118.1	1015.4	917.2	822.5	735.0
37.5°	1875.4	1770.0	1661.1	1548.5	1436.0	1328.0	1211.9	1101.1	996.6	887.7	790.3
35°	2028.1	1912.0	1794.1	1671.8	1548.5	1426.2	1303.9	1184.2	1067.2	953.8	848.4
32.5°	2181.7	2054.9	1924.5	1794.1	1661.1	1526.2	1395.8	1267.2	1140.4	1018.1	901.1
30°	2332.6	2195.1	2054.9	1912.0	1770.0	1627.1	1484.2	1346.7	1212.8	1081.5	956.5
27.5°	2480.0	2332.6	2181.7	2028.1	1875.4	1723.6	1571.8	1424.4	1281.5	1142.2	1008.3
25°	2622.0	2464.8	2303.2	2139.7	1977.2	1815.6	1655.7	1496.7	1346.7	1200.3	1060.0
22.5°	2755.9	2589.8	2419.3	2246.0	2071.9	1901.3	1733.4	1568.2	1408.3	1254.7	1107.4
20°	2884.5	2706.8	2533.6	2344.3	2162.1	1982.6	1806.6	1633.4	1464.6	1304.7	1150.2
17.5°	3001.5	2814.9	2625.6	2435.3	2244.2	2055.8	1871.8	1699.5	1516.4	1350.3	1191.3
15°	3106.9	2912.2	2714.0	2516.6	2317.5	2121.9	1930.8	1745.0	1563.7	1391.4	1227.0
12.5°	3198.9	2997.1	2791.7	2587.2	2382.7	2179.9	1982.6	1790.6	1604.8	1426.2	1257.4
10°	3274.8	3068.5	2856.9	2646.1	2436.2	2228.2	2024.5	1829.0	1638.7	1455.7	1282.4
7.5°	3336.4	3124.8	2909.6	2692.5	2478.2	2265.7	2058.5	1858.4	1665.5	1478.0	1302.1
5°	3380.2	3165.9	2947.1	2725.6	2508.6	2293.3	2082.6	1879.9	1684.3	1494.1	1316.4
2.5°	3407.9	3198.9	2977.4	2753.3	2533.6	2315.7	2102.2	1896.8	1699.5	1507.5	1328.0
0°	3416.8	3198.9	2977.4	2753.3	2533.6	2315.7	2102.2	1896.8	1699.5	1507.5	1328.0

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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°	21.4	19.6	17.9	17.0	15.2	14.3	12.5	10.7	9.8	8.0	6.3
85°	42.9	39.3	36.6	33.9	31.3	27.7	25.0	22.3	18.8	16.1	12.5
82.5°	65.2	60.7	56.3	51.8	47.3	42.9	37.5	33.0	28.6	24.1	18.8
80°	90.2	83.1	76.8	70.6	64.3	58.0	50.9	44.7	37.5	31.3	25.0
77.5°	116.1	108.1	99.1	90.2	81.3	73.2	64.3	56.3	48.2	39.3	31.3
75°	143.8	133.1	123.2	111.6	100.9	89.3	78.6	67.9	58.0	48.2	37.5
72.5°	172.4	159.0	145.6	133.1	119.7	106.3	93.8	80.4	67.9	56.3	44.7
70°	201.8	185.8	169.7	154.5	139.3	123.2	109.0	93.8	78.6	64.3	50.9
67.5°	233.1	214.3	195.6	175.9	159.0	141.1	123.2	106.3	89.3	73.2	58.0
65°	267.0	244.7	221.5	200.9	178.6	159.0	139.3	119.7	100.9	81.3	64.3
62.5°	301.9	276.0	250.1	224.2	200.9	175.9	154.5	133.1	111.6	90.2	70.6
60°	337.6	308.1	278.6	250.1	221.5	195.6	169.7	145.6	123.2	99.1	76.8
57.5°	374.2	341.1	308.1	276.0	244.7	214.3	185.8	159.0	133.1	108.1	83.1
55°	411.7	374.2	337.6	301.9	267.0	233.1	201.8	172.4	143.8	116.1	90.2
52.5°	449.2	408.1	367.0	328.6	292.0	253.6	217.9	184.9	153.6	125.0	96.4
50°	487.6	441.2	397.4	354.5	312.6	272.4	234.0	198.3	164.3	133.1	102.7
47.5°	526.9	476.0	426.9	380.4	335.8	292.0	250.1	210.8	174.1	141.1	109.0
45°	568.9	509.9	457.2	407.2	358.1	311.7	266.1	223.3	184.9	149.1	115.2
42.5°	610.0	546.5	487.6	434.9	380.4	330.4	282.2	236.7	194.7	156.3	120.6
40°	656.4	583.2	516.2	458.1	401.9	348.3	297.4	249.2	204.5	163.4	125.9
37.5°	701.0	618.9	548.3	483.1	422.4	366.1	312.6	261.7	214.3	170.6	131.3
35°	746.6	658.2	577.8	506.4	443.0	384.0	326.9	273.3	222.4	176.8	136.6
32.5°	793.0	695.7	609.1	531.4	463.5	400.1	340.3	284.0	231.3	184.0	141.1
30°	837.7	731.4	638.5	555.5	482.2	416.2	353.6	294.7	240.2	190.2	145.6
27.5°	883.2	768.9	668.0	577.8	500.1	430.4	365.3	304.5	248.3	196.5	150.0
25°	927.0	804.6	695.7	599.2	516.2	444.7	377.8	314.4	255.4	201.8	153.6
22.5°	967.2	835.9	720.7	619.8	533.1	457.2	388.5	323.3	262.6	207.2	157.2
20°	1003.8	868.0	746.6	640.3	549.2	469.7	397.4	331.3	268.8	211.7	160.7
17.5°	1039.5	897.5	769.8	659.1	562.6	480.5	406.3	337.6	274.2	215.2	163.4
15°	1069.9	923.4	790.3	675.1	575.1	489.4	413.5	343.8	278.6	218.8	165.2
12.5°	1096.7	945.7	808.2	688.5	584.9	497.4	420.6	349.2	283.1	221.5	167.9
10°	1118.1	963.6	822.5	700.1	593.9	503.7	425.1	353.6	285.8	224.2	169.7
7.5°	1135.1	977.9	834.1	708.2	600.1	509.0	429.6	356.3	288.5	225.9	172.4
5°	1147.6	988.6	842.1	714.4	605.5	515.3	434.9	360.8	292.0	228.6	172.4
2.5°	1157.4	996.6	848.4	719.8	609.1	515.3	434.9	360.8	292.0	228.6	172.4
0°	1157.4	996.6	848.4	719.8	609.1	515.3	434.9	360.8	292.0	228.6	172.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.5	3.6	1.8	0.0
85°	9.8	6.3	3.6	0.0
82.5°	14.3	9.8	4.5	0.0
80°	18.8	12.5	6.3	0.0
77.5°	24.1	16.1	8.0	0.0
75°	28.6	18.8	9.8	0.0
72.5°	33.0	22.3	10.7	0.0
70°	37.5	25.0	12.5	0.0
67.5°	42.9	27.7	14.3	0.0
65°	47.3	31.3	15.2	0.0
62.5°	51.8	33.9	17.0	0.0
60°	56.3	36.6	17.9	0.0
57.5°	60.7	39.3	19.6	0.0
55°	65.2	42.9	21.4	0.0
52.5°	69.7	45.5	22.3	0.0
50°	74.1	48.2	23.2	0.0
47.5°	77.7	50.9	25.0	0.0
45°	82.2	53.6	25.9	0.0
42.5°	86.6	55.4	26.8	0.0
40°	90.2	58.0	27.7	0.0
37.5°	94.7	59.8	29.5	0.0
35°	98.2	62.5	30.4	0.0
32.5°	100.9	64.3	31.3	0.0
30°	104.5	66.1	32.1	0.0
27.5°	107.2	67.9	32.1	0.0
25°	109.8	69.7	33.0	0.0
22.5°	112.5	70.6	33.9	0.0
20°	115.2	72.3	34.8	0.0
17.5°	117.0	73.2	34.8	0.0
15°	118.8	74.1	36.6	0.0
12.5°	119.7	75.0	36.6	0.0
10°	121.5	76.8	36.6	0.0
7.5°	123.2	76.8	36.6	0.0
5°	123.2	76.8	36.6	0.0
2.5°	123.2	76.8	36.6	0.0
0°	123.2	76.8	36.6	0.0

(END OF REPORT)