

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: P624604

Luminaire Tested: **IFLD-L-SA7C-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624604
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-940-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33256.8 lumens	Max Intensity:	18470.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	90.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' 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:	14389.9 lumens	Field Lumens:	23563 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

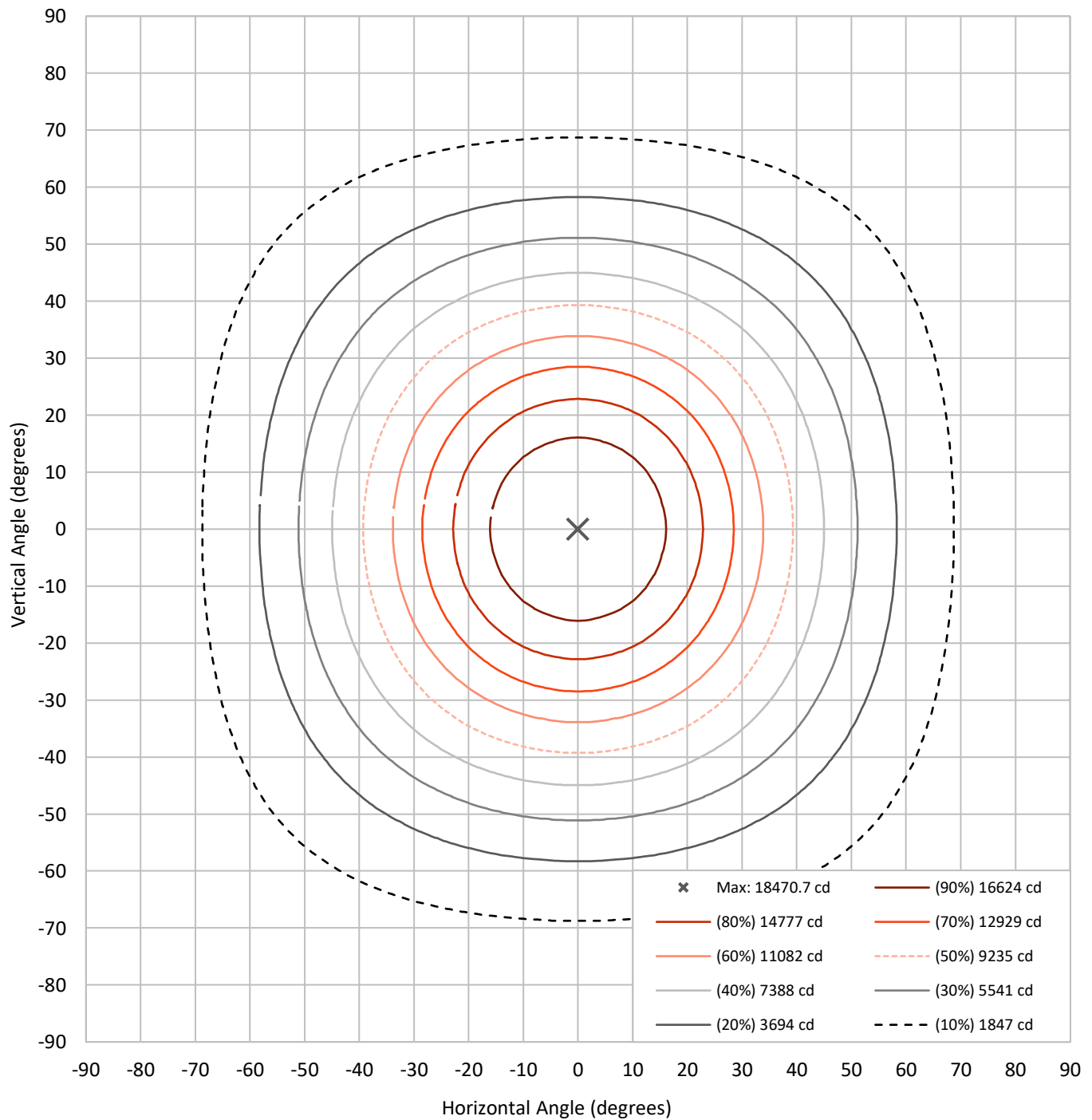
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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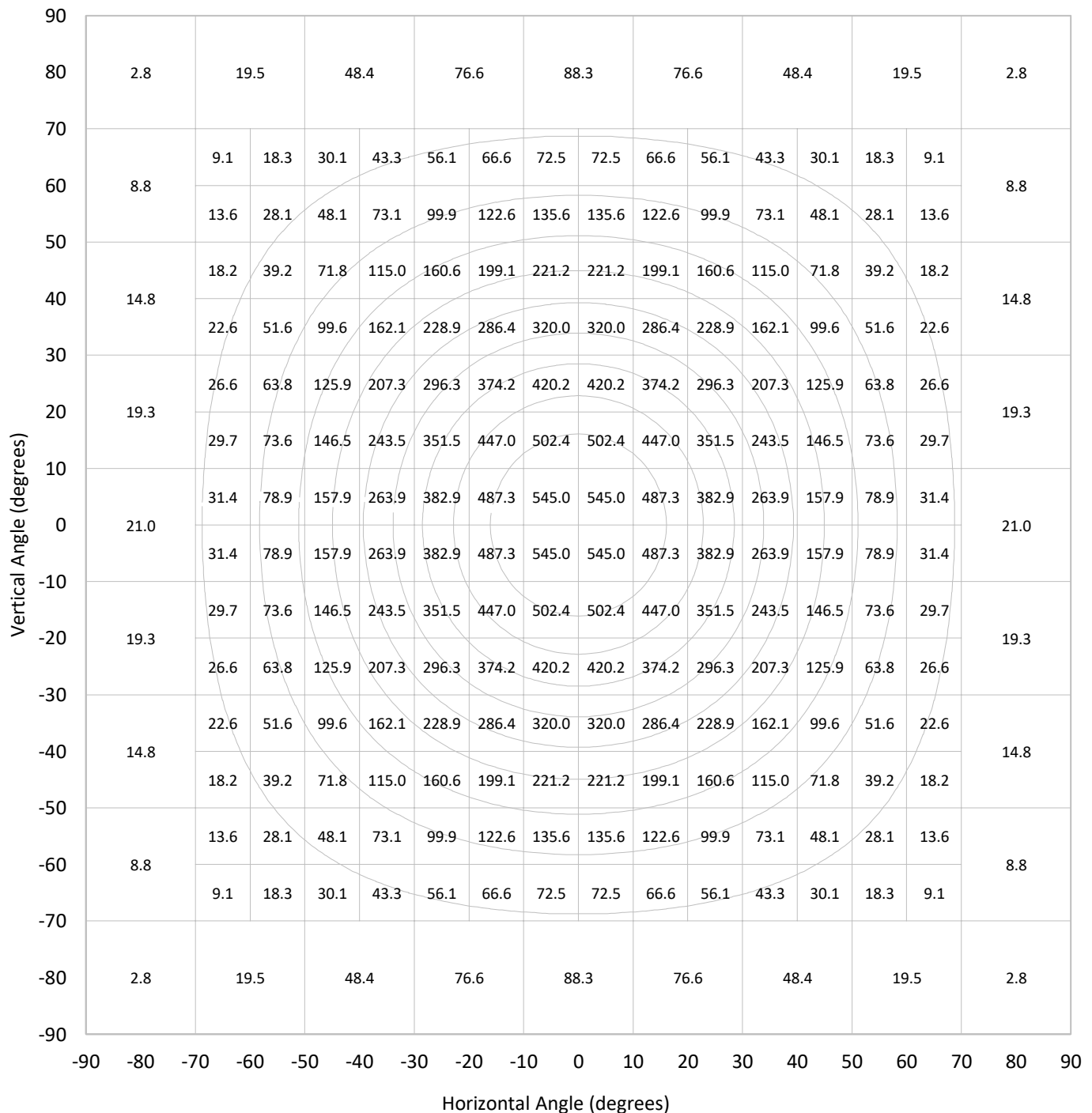
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Iso-Candela Plot



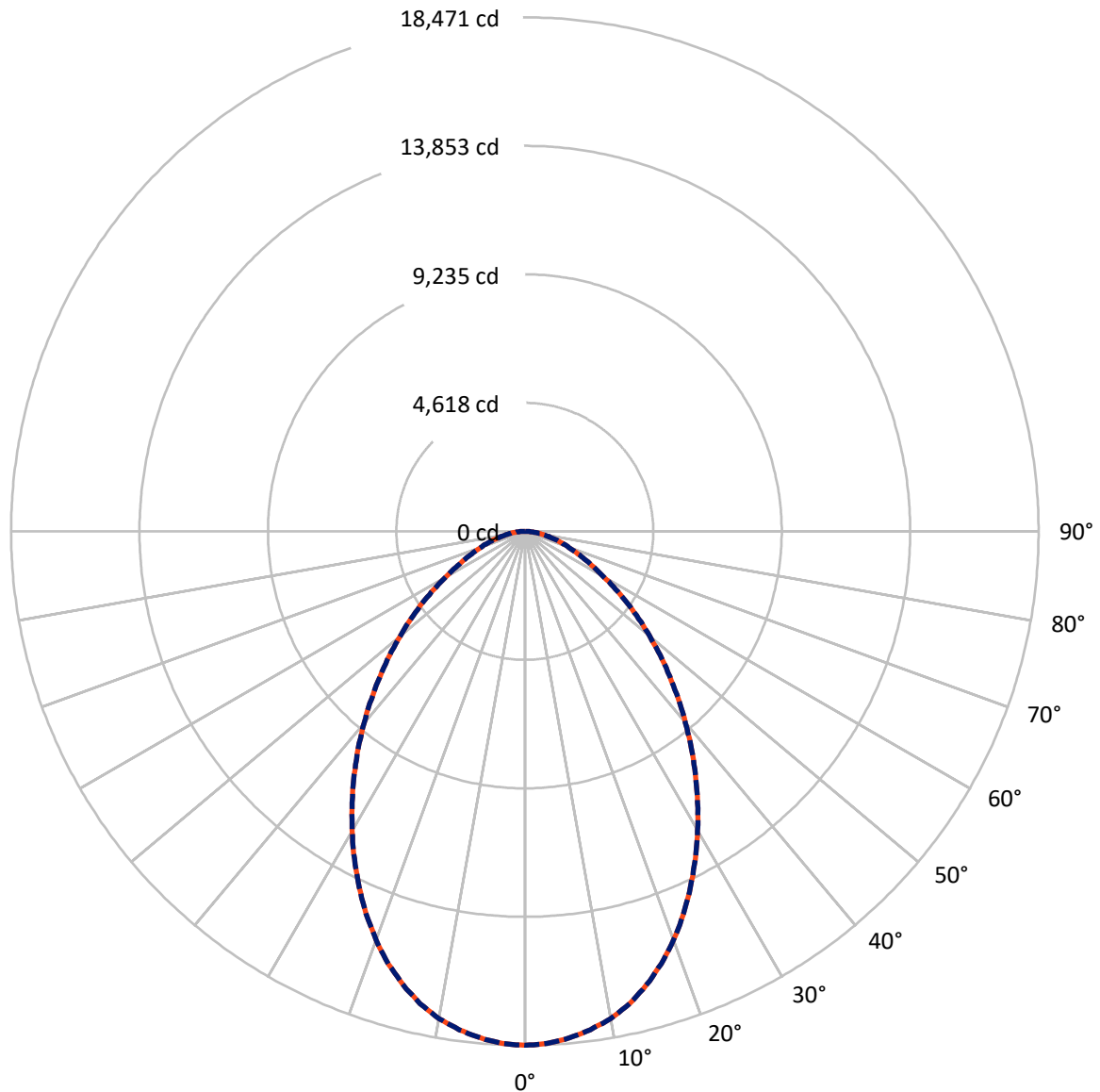
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Lumen Table



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Luminous Intensity Polar Plot

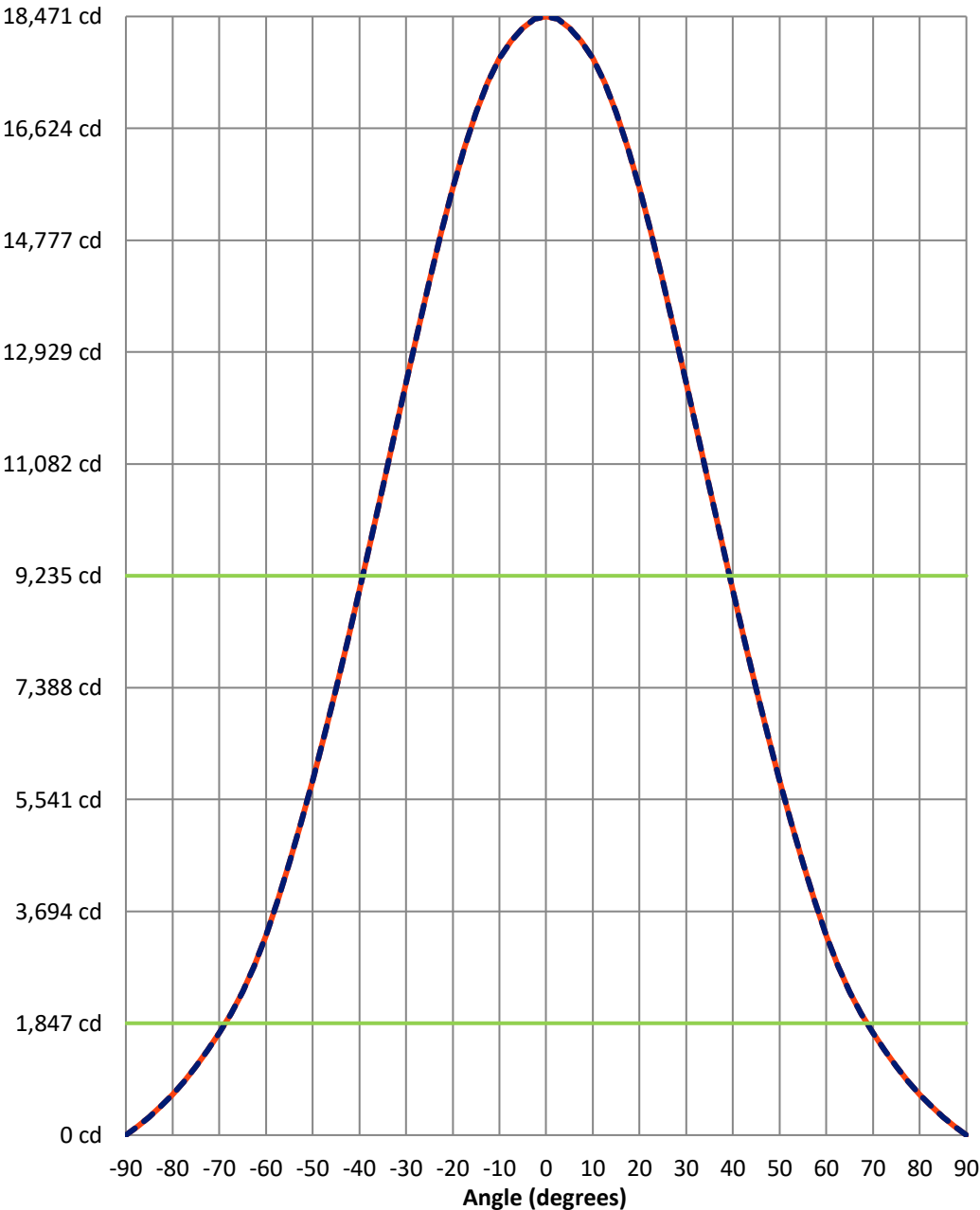


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 14389.9
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 23563
Efficiency: 70.9%

Spill:
Lumens: 9693.9
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°	142.2	142.2	142.2	142.2	142.2	142.2	142.2	135.2	135.2	131.8	128.3
85°	298.2	298.2	298.2	298.2	298.2	291.3	287.8	284.3	280.9	273.9	270.5
82.5°	478.5	478.5	478.5	478.5	471.6	464.6	461.2	454.2	447.3	436.9	426.5
80°	669.2	669.2	669.2	669.2	658.8	651.9	641.5	634.5	624.1	610.3	596.4
77.5°	887.6	887.6	887.6	877.2	870.3	859.9	849.5	835.6	821.8	804.4	783.6
75°	1133.8	1133.8	1133.8	1120.0	1109.6	1099.2	1081.8	1064.5	1043.7	1019.4	991.7
72.5°	1400.8	1400.8	1400.8	1383.5	1373.1	1355.7	1334.9	1310.7	1286.4	1255.2	1220.5
70°	1688.6	1688.6	1688.6	1667.8	1650.5	1633.1	1605.4	1577.7	1543.0	1508.3	1466.7
67.5°	2000.7	2000.7	2000.7	1976.4	1955.6	1931.3	1900.1	1865.4	1823.8	1775.3	1726.7
65°	2364.7	2364.7	2350.9	2330.1	2305.8	2271.1	2233.0	2184.4	2132.4	2070.0	2004.1
62.5°	2794.7	2794.7	2773.9	2749.6	2718.4	2673.3	2621.3	2558.9	2486.1	2406.4	2326.6
60°	3294.0	3294.0	3269.7	3238.5	3193.4	3138.0	3068.6	2988.9	2898.7	2798.2	2701.1
57.5°	3869.6	3869.6	3838.4	3796.8	3741.3	3671.9	3585.3	3484.7	3370.3	3245.5	3124.1
55°	4493.7	4493.7	4455.6	4407.0	4341.1	4257.9	4153.9	4036.0	3897.3	3755.2	3599.1
52.5°	5156.0	5156.0	5110.9	5055.4	4979.1	4882.1	4764.2	4625.5	4466.0	4299.5	4115.8
50°	5852.9	5852.9	5800.9	5738.5	5651.8	5537.4	5402.2	5242.7	5065.8	4871.6	4660.1
47.5°	6598.4	6598.4	6539.5	6466.6	6362.6	6230.9	6071.4	5887.6	5686.5	5468.0	5228.8
45°	7364.7	7364.7	7298.8	7215.6	7101.2	6952.1	6775.2	6598.4	6341.8	6088.7	5811.3
42.5°	8162.2	8162.2	8085.9	7992.3	7860.5	7697.6	7496.4	7267.6	7014.5	6730.2	6428.5
40°	8990.9	8990.9	8904.2	8796.7	8651.1	8463.8	8238.5	7981.9	7697.6	7382.0	7049.2
37.5°	9836.9	9836.9	9739.8	9621.9	9459.0	9250.9	8997.8	8713.5	8394.5	8044.3	7676.7
35°	10689.9	10689.9	10582.4	10454.1	10273.8	10045.0	9771.0	9455.5	9101.8	8720.4	8307.8
32.5°	11560.2	11560.2	11442.3	11296.7	11092.1	10839.0	10537.3	10194.1	9836.9	9393.1	8942.3
30°	12420.1	12420.1	12291.8	12132.3	11913.9	11636.5	11307.1	10929.1	10509.6	10055.4	9569.9
27.5°	13266.1	13231.5	13124.0	12954.1	12714.8	12420.1	12063.0	11653.8	11199.6	10700.3	10180.2
25°	14098.3	14060.2	13942.3	13755.0	13498.5	13176.0	12791.1	12354.2	11865.3	11338.3	10769.6
22.5°	14895.8	14854.2	14729.4	14528.3	14254.3	13904.1	13491.5	13023.4	12503.3	11938.1	11338.3
20°	15634.4	15589.3	15461.0	15249.5	14965.2	14594.1	14157.3	13654.5	13099.7	12503.3	11865.3
17.5°	16300.1	16255.0	16119.8	15901.3	15634.4	15221.7	14771.0	14240.5	13654.5	13023.4	12354.2
15°	16886.1	16837.5	16698.8	16480.4	16175.3	15786.9	15311.9	14771.0	14157.3	13491.5	12791.1
12.5°	17385.4	17336.8	17194.7	16976.2	16660.7	16272.4	15786.9	15221.7	14594.1	13904.1	13176.0
10°	17780.7	17732.1	17596.9	17388.8	17062.9	16660.7	16175.3	15634.4	14965.2	14254.3	13498.5
7.5°	18065.0	18019.9	17895.1	17687.0	17388.8	16976.2	16480.4	15901.3	15249.5	14528.3	13755.0
5°	18280.0	18227.9	18103.1	17895.1	17596.9	17194.7	16698.8	16119.8	15461.0	14729.4	13942.3
2.5°	18429.1	18366.6	18227.9	18019.9	17732.1	17336.8	16837.5	16255.0	15589.3	14854.2	14060.2
0°	18470.7	18429.1	18280.0	18065.0	17780.7	17385.4	16886.1	16300.1	15634.4	14895.8	14098.3

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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°	124.8	124.8	121.4	117.9	114.4	107.5	104.0	100.6	97.1	90.2	86.7
85°	263.5	256.6	249.7	242.7	232.3	225.4	215.0	208.0	197.6	187.2	176.8
82.5°	416.1	405.7	391.8	381.4	367.5	350.2	336.3	319.0	301.7	287.8	270.5
80°	582.5	565.2	547.8	530.5	509.7	488.9	468.1	447.3	423.0	398.7	374.5
77.5°	762.8	738.5	714.3	686.5	662.3	634.5	606.8	579.1	547.8	516.6	485.4
75°	963.9	932.7	898.0	863.4	832.2	794.0	755.9	717.7	676.1	638.0	596.4
72.5°	1182.4	1144.2	1102.6	1061.0	1015.9	967.4	918.9	866.8	818.3	769.8	717.7
70°	1418.2	1373.1	1321.1	1269.1	1213.6	1154.6	1095.7	1033.3	970.9	908.4	846.0
67.5°	1671.3	1615.8	1553.4	1491.0	1421.6	1352.3	1282.9	1210.1	1133.8	1057.5	984.7
65°	1941.7	1872.4	1799.6	1719.8	1640.1	1560.3	1477.1	1390.4	1303.7	1213.6	1133.8
62.5°	2243.4	2156.7	2063.1	1966.0	1875.8	1778.8	1688.6	1581.1	1477.1	1376.5	1276.0
60°	2593.6	2479.2	2364.7	2243.4	2129.0	2004.1	1893.2	1775.3	1657.4	1543.0	1425.1
57.5°	2985.4	2839.8	2701.1	2555.4	2402.9	2264.2	2122.0	1979.9	1848.1	1712.9	1584.6
55°	3429.2	3252.4	3079.0	2898.7	2721.9	2548.5	2368.2	2208.7	2045.7	1893.2	1744.1
52.5°	3914.7	3713.5	3498.6	3294.0	3068.6	2853.6	2652.5	2451.4	2260.7	2077.0	1907.1
50°	4434.8	4199.0	3952.8	3703.1	3446.6	3193.4	2950.7	2714.9	2493.0	2278.1	2077.0
47.5°	4975.7	4708.7	4427.8	4143.5	3869.6	3561.0	3269.7	3002.7	2735.8	2493.0	2260.7
45°	5530.4	5228.8	4920.2	4597.7	4275.3	3942.4	3619.9	3294.0	3002.7	2714.9	2451.4
42.5°	6102.6	5762.8	5419.5	5062.4	4705.2	4341.1	3977.1	3619.9	3269.7	2950.7	2652.5
40°	6692.0	6317.5	5925.7	5537.4	5156.0	4739.9	4341.1	3942.4	3561.0	3193.4	2853.6
37.5°	7281.5	6872.3	6449.3	6012.4	5575.5	5156.0	4705.2	4275.3	3869.6	3446.6	3068.6
35°	7874.4	7423.6	6965.9	6490.9	6012.4	5537.4	5062.4	4597.7	4143.5	3703.1	3294.0
32.5°	8470.8	7978.4	7472.2	6965.9	6449.3	5925.7	5419.5	4920.2	4427.8	3952.8	3498.6
30°	9056.8	8522.8	7978.4	7423.6	6872.3	6317.5	5762.8	5228.8	4708.7	4199.0	3713.5
27.5°	9628.9	9056.8	8470.8	7874.4	7281.5	6692.0	6102.6	5530.4	4975.7	4434.8	3914.7
25°	10180.2	9569.9	8942.3	8307.8	7676.7	7049.2	6428.5	5811.3	5228.8	4660.1	4115.8
22.5°	10700.3	10055.4	9393.1	8720.4	8044.3	7382.0	6730.2	6088.7	5468.0	4871.6	4299.5
20°	11199.6	10509.6	9836.9	9101.8	8394.5	7697.6	7014.5	6341.8	5686.5	5065.8	4466.0
17.5°	11653.8	10929.1	10194.1	9455.5	8713.5	7981.9	7267.6	6598.4	5887.6	5242.7	4625.5
15°	12063.0	11307.1	10537.3	9771.0	8997.8	8238.5	7496.4	6775.2	6071.4	5402.2	4764.2
12.5°	12420.1	11636.5	10839.0	10045.0	9250.9	8463.8	7697.6	6952.1	6230.9	5537.4	4882.1
10°	12714.8	11913.9	11092.1	10273.8	9459.0	8651.1	7860.5	7101.2	6362.6	5651.8	4979.1
7.5°	12954.1	12132.3	11296.7	10454.1	9621.9	8796.7	7992.3	7215.6	6466.6	5738.5	5055.4
5°	13124.0	12291.8	11442.3	10582.4	9739.8	8904.2	8085.9	7298.8	6539.5	5800.9	5110.9
2.5°	13231.5	12420.1	11560.2	10689.9	9836.9	8990.9	8162.2	7364.7	6598.4	5852.9	5156.0
0°	13266.1	12420.1	11560.2	10689.9	9836.9	8990.9	8162.2	7364.7	6598.4	5852.9	5156.0

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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°	83.2	76.3	69.3	65.9	58.9	55.5	48.5	41.6	38.1	31.2	24.3
85°	166.4	152.6	142.2	131.8	121.4	107.5	97.1	86.7	72.8	62.4	48.5
82.5°	253.1	235.8	218.4	201.1	183.8	166.4	145.6	128.3	111.0	93.6	72.8
80°	350.2	322.5	298.2	273.9	249.7	225.4	197.6	173.4	145.6	121.4	97.1
77.5°	450.8	419.6	384.9	350.2	315.5	284.3	249.7	218.4	187.2	152.6	121.4
75°	558.2	516.6	478.5	433.4	391.8	346.7	305.1	263.5	225.4	187.2	145.6
72.5°	669.2	617.2	565.2	516.6	464.6	412.6	364.1	312.1	263.5	218.4	173.4
70°	783.6	721.2	658.8	599.9	540.9	478.5	423.0	364.1	305.1	249.7	197.6
67.5°	905.0	832.2	759.4	683.1	617.2	547.8	478.5	412.6	346.7	284.3	225.4
65°	1036.7	950.1	859.9	780.2	693.5	617.2	540.9	464.6	391.8	315.5	249.7
62.5°	1172.0	1071.4	970.9	870.3	780.2	683.1	599.9	516.6	433.4	350.2	273.9
60°	1310.7	1196.2	1081.8	970.9	859.9	759.4	658.8	565.2	478.5	384.9	298.2
57.5°	1452.8	1324.5	1196.2	1071.4	950.1	832.2	721.2	617.2	516.6	419.6	322.5
55°	1598.5	1452.8	1310.7	1172.0	1036.7	905.0	783.6	669.2	558.2	450.8	350.2
52.5°	1744.1	1584.6	1425.1	1276.0	1133.8	984.7	846.0	717.7	596.4	485.4	374.5
50°	1893.2	1712.9	1543.0	1376.5	1213.6	1057.5	908.4	769.8	638.0	516.6	398.7
47.5°	2045.7	1848.1	1657.4	1477.1	1303.7	1133.8	970.9	818.3	676.1	547.8	423.0
45°	2208.7	1979.9	1775.3	1581.1	1390.4	1210.1	1033.3	866.8	717.7	579.1	447.3
42.5°	2368.2	2122.0	1893.2	1688.6	1477.1	1282.9	1095.7	918.9	755.9	606.8	468.1
40°	2548.5	2264.2	2004.1	1778.8	1560.3	1352.3	1154.6	967.4	794.0	634.5	488.9
37.5°	2721.9	2402.9	2129.0	1875.8	1640.1	1421.6	1213.6	1015.9	832.2	662.3	509.7
35°	2898.7	2555.4	2243.4	1966.0	1719.8	1491.0	1269.1	1061.0	863.4	686.5	530.5
32.5°	3079.0	2701.1	2364.7	2063.1	1799.6	1553.4	1321.1	1102.6	898.0	714.3	547.8
30°	3252.4	2839.8	2479.2	2156.7	1872.4	1615.8	1373.1	1144.2	932.7	738.5	565.2
27.5°	3429.2	2985.4	2593.6	2243.4	1941.7	1671.3	1418.2	1182.4	963.9	762.8	582.5
25°	3599.1	3124.1	2701.1	2326.6	2004.1	1726.7	1466.7	1220.5	991.7	783.6	596.4
22.5°	3755.2	3245.5	2798.2	2406.4	2070.0	1775.3	1508.3	1255.2	1019.4	804.4	610.3
20°	3897.3	3370.3	2898.7	2486.1	2132.4	1823.8	1543.0	1286.4	1043.7	821.8	624.1
17.5°	4036.0	3484.7	2988.9	2558.9	2184.4	1865.4	1577.7	1310.7	1064.5	835.6	634.5
15°	4153.9	3585.3	3068.6	2621.3	2233.0	1900.1	1605.4	1334.9	1081.8	849.5	641.5
12.5°	4257.9	3671.9	3138.0	2673.3	2271.1	1931.3	1633.1	1355.7	1099.2	859.9	651.9
10°	4341.1	3741.3	3193.4	2718.4	2305.8	1955.6	1650.5	1373.1	1109.6	870.3	658.8
7.5°	4407.0	3796.8	3238.5	2749.6	2330.1	1976.4	1667.8	1383.5	1120.0	877.2	669.2
5°	4455.6	3838.4	3269.7	2773.9	2350.9	2000.7	1688.6	1400.8	1133.8	887.6	669.2
2.5°	4493.7	3869.6	3294.0	2794.7	2364.7	2000.7	1688.6	1400.8	1133.8	887.6	669.2
0°	4493.7	3869.6	3294.0	2794.7	2364.7	2000.7	1688.6	1400.8	1133.8	887.6	669.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.3	13.9	6.9	0.0
85°	38.1	24.3	13.9	0.0
82.5°	55.5	38.1	17.3	0.0
80°	72.8	48.5	24.3	0.0
77.5°	93.6	62.4	31.2	0.0
75°	111.0	72.8	38.1	0.0
72.5°	128.3	86.7	41.6	0.0
70°	145.6	97.1	48.5	0.0
67.5°	166.4	107.5	55.5	0.0
65°	183.8	121.4	58.9	0.0
62.5°	201.1	131.8	65.9	0.0
60°	218.4	142.2	69.3	0.0
57.5°	235.8	152.6	76.3	0.0
55°	253.1	166.4	83.2	0.0
52.5°	270.5	176.8	86.7	0.0
50°	287.8	187.2	90.2	0.0
47.5°	301.7	197.6	97.1	0.0
45°	319.0	208.0	100.6	0.0
42.5°	336.3	215.0	104.0	0.0
40°	350.2	225.4	107.5	0.0
37.5°	367.5	232.3	114.4	0.0
35°	381.4	242.7	117.9	0.0
32.5°	391.8	249.7	121.4	0.0
30°	405.7	256.6	124.8	0.0
27.5°	416.1	263.5	124.8	0.0
25°	426.5	270.5	128.3	0.0
22.5°	436.9	273.9	131.8	0.0
20°	447.3	280.9	135.2	0.0
17.5°	454.2	284.3	135.2	0.0
15°	461.2	287.8	142.2	0.0
12.5°	464.6	291.3	142.2	0.0
10°	471.6	298.2	142.2	0.0
7.5°	478.5	298.2	142.2	0.0
5°	478.5	298.2	142.2	0.0
2.5°	478.5	298.2	142.2	0.0
0°	478.5	298.2	142.2	0.0

(END OF REPORT)