

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: P624003

Luminaire Tested: **IFLD-M-SA4D-760-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624003
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-760-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

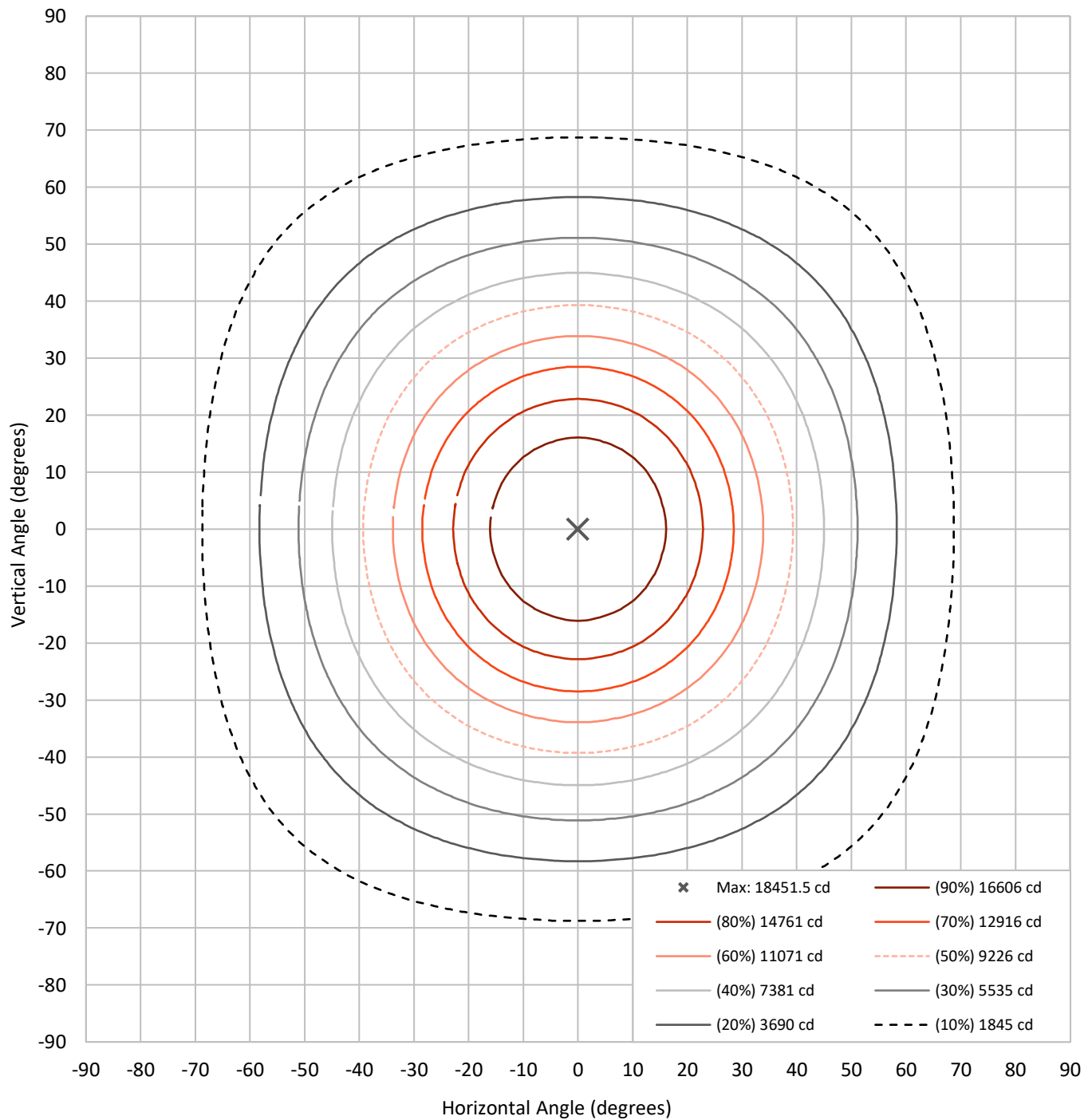
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33222.4 lumens	Max Intensity:	18451.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	133.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	14375 lumens	Field Lumens:	23538.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

Input Watts (W): 249.7
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



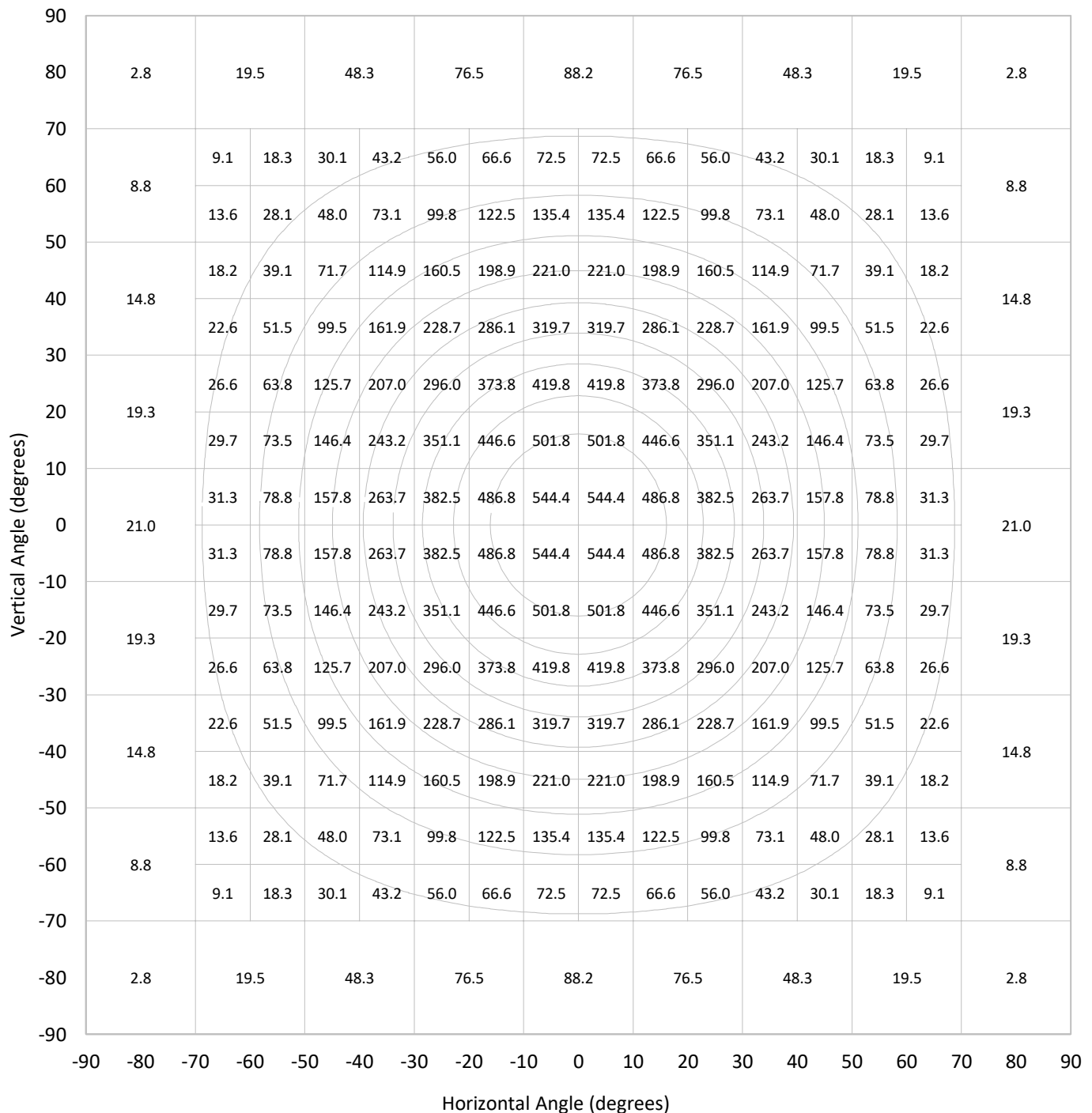
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Iso-Candela Plot



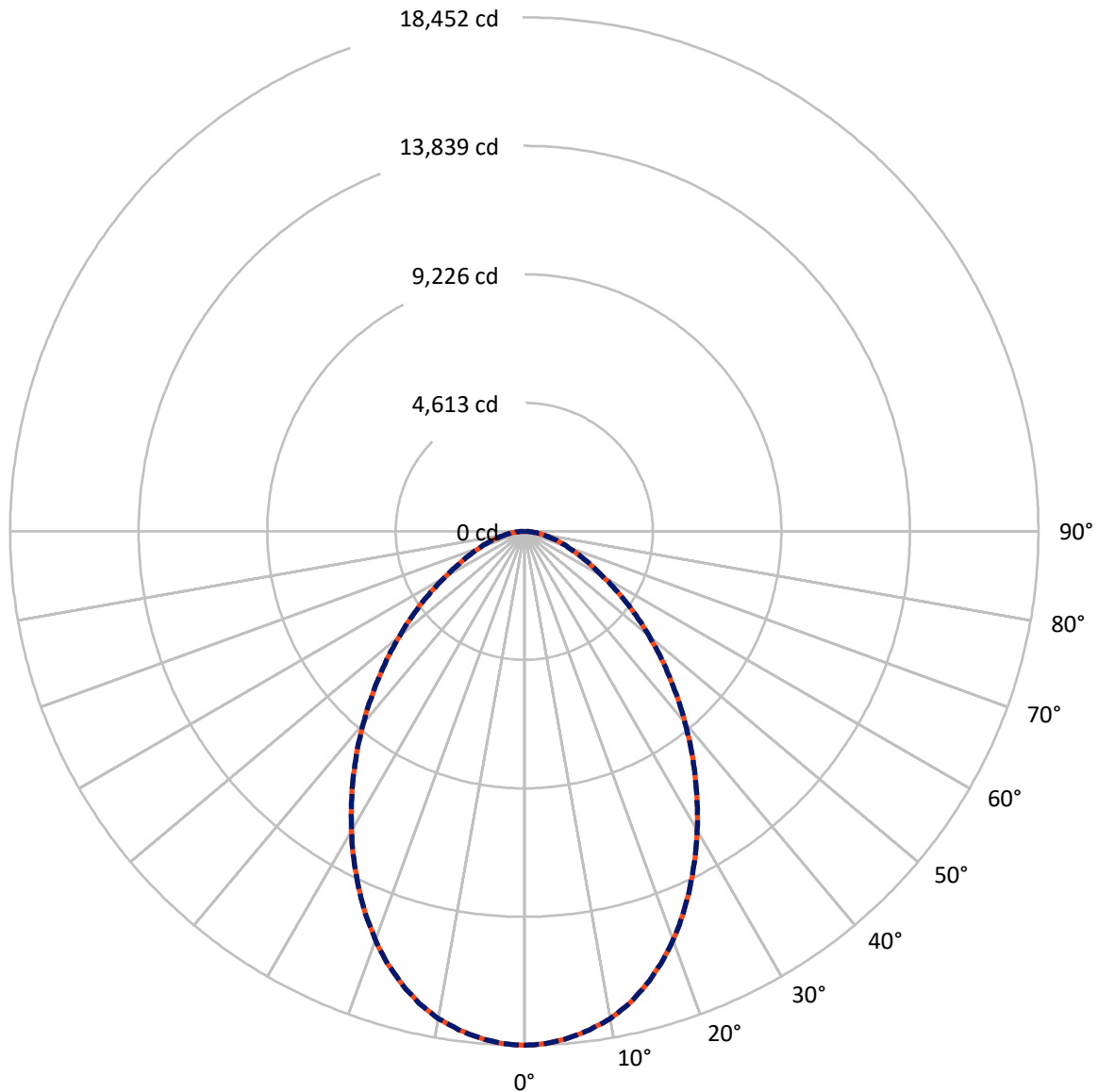
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Lumen Table



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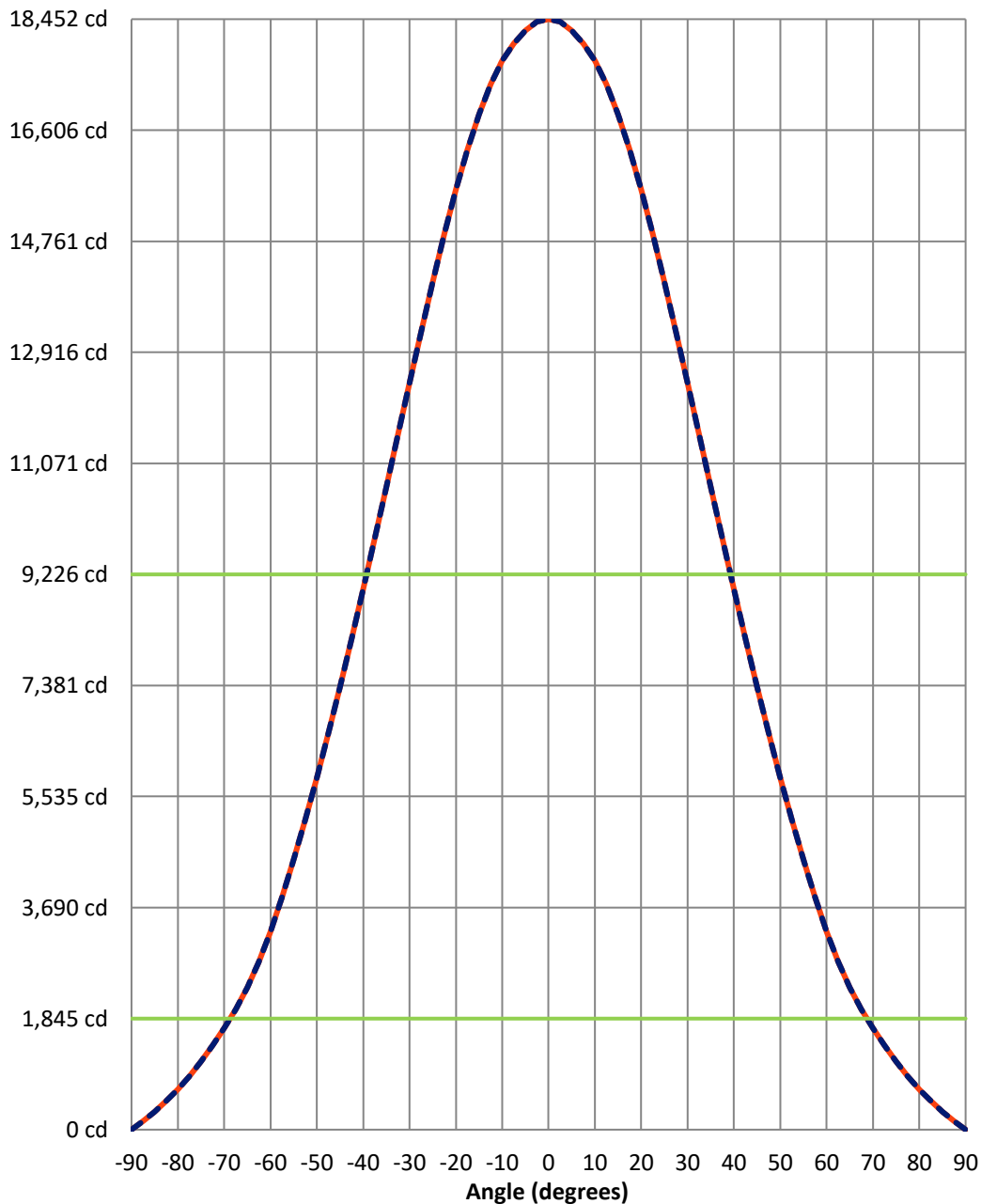
Luminous Intensity Polar Plot



— 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: 14375
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 23538.6
Efficiency: 70.9%

Spill:

Lumens: 9683.8
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°	142.0	142.0	142.0	142.0	142.0	142.0	142.0	135.1	135.1	131.6	128.2
85°	297.9	297.9	297.9	297.9	297.9	291.0	287.5	284.0	280.6	273.6	270.2
82.5°	478.0	478.0	478.0	478.0	471.1	464.1	460.7	453.8	446.8	436.4	426.0
80°	668.5	668.5	668.5	668.5	658.1	651.2	640.8	633.9	623.5	609.6	595.8
77.5°	886.7	886.7	886.7	876.3	869.4	859.0	848.6	834.8	820.9	803.6	782.8
75°	1132.7	1132.7	1132.7	1118.8	1108.4	1098.0	1080.7	1063.4	1042.6	1018.4	990.6
72.5°	1399.4	1399.4	1399.4	1382.0	1371.7	1354.3	1333.6	1309.3	1285.1	1253.9	1219.3
70°	1686.9	1686.9	1686.9	1666.1	1648.8	1631.4	1603.7	1576.0	1541.4	1506.7	1465.2
67.5°	1998.6	1998.6	1998.6	1974.4	1953.6	1929.3	1898.2	1863.5	1821.9	1773.5	1725.0
65°	2362.3	2362.3	2348.4	2327.7	2303.4	2268.8	2230.7	2182.2	2130.2	2067.9	2002.1
62.5°	2791.8	2791.8	2771.0	2746.8	2715.6	2670.6	2618.6	2556.3	2483.5	2403.9	2324.2
60°	3290.6	3290.6	3266.3	3235.2	3190.1	3134.7	3065.4	2985.8	2895.7	2795.3	2698.3
57.5°	3865.6	3865.6	3834.4	3792.8	3737.4	3668.1	3581.5	3481.1	3366.8	3242.1	3120.9
55°	4489.1	4489.1	4451.0	4402.5	4336.7	4253.5	4149.6	4031.8	3893.3	3751.3	3595.4
52.5°	5150.6	5150.6	5105.6	5050.2	4974.0	4877.0	4759.2	4620.7	4461.3	4295.1	4111.5
50°	5846.9	5846.9	5794.9	5732.6	5646.0	5531.7	5396.6	5237.2	5060.6	4866.6	4655.3
47.5°	6591.6	6591.6	6532.7	6459.9	6356.0	6224.4	6065.1	5881.5	5680.6	5462.4	5223.4
45°	7357.1	7357.1	7291.3	7208.1	7093.8	6944.9	6768.2	6591.6	6335.3	6082.4	5805.3
42.5°	8153.7	8153.7	8077.5	7984.0	7852.4	7689.6	7488.7	7260.1	7007.2	6723.2	6421.8
40°	8981.6	8981.6	8895.0	8787.6	8642.1	8455.1	8229.9	7973.6	7689.6	7374.4	7041.9
37.5°	9826.7	9826.7	9729.8	9612.0	9449.2	9241.4	8988.5	8704.5	8385.8	8036.0	7668.8
35°	10678.8	10678.8	10571.5	10443.3	10263.2	10034.6	9760.9	9445.7	9092.4	8711.4	8299.2
32.5°	11548.2	11548.2	11430.5	11285.0	11080.6	10827.8	10526.4	10183.5	9826.7	9383.4	8933.1
30°	12407.3	12407.3	12279.1	12119.8	11901.5	11624.4	11295.4	10917.8	10498.7	10045.0	9560.0
27.5°	13252.4	13217.8	13110.4	12940.7	12701.7	12407.3	12050.5	11641.8	11188.0	10689.2	10169.7
25°	14083.7	14045.6	13927.9	13740.8	13484.5	13162.4	12777.9	12341.4	11853.1	11326.6	10758.5
22.5°	14880.4	14838.8	14714.1	14513.2	14239.6	13889.8	13477.6	13010.0	12490.4	11925.8	11326.6
20°	15618.2	15573.1	15445.0	15233.7	14949.7	14579.0	14142.6	13640.4	13086.2	12490.4	11853.1
17.5°	16283.2	16238.2	16103.1	15884.9	15618.2	15206.0	14755.7	14225.7	13640.4	13010.0	12341.4
15°	16868.6	16820.1	16681.6	16463.3	16158.5	15770.6	15296.0	14755.7	14142.6	13477.6	12777.9
12.5°	17367.4	17318.9	17176.9	16958.7	16643.5	16255.5	15770.6	15206.0	14579.0	13889.8	13162.4
10°	17762.3	17713.8	17578.7	17370.8	17045.3	16643.5	16158.5	15618.2	14949.7	14239.6	13484.5
7.5°	18046.3	18001.3	17876.6	17668.7	17370.8	16958.7	16463.3	15884.9	15233.7	14513.2	13740.8
5°	18261.0	18209.1	18084.4	17876.6	17578.7	17176.9	16681.6	16103.1	15445.0	14714.1	13927.9
2.5°	18410.0	18347.6	18209.1	18001.3	17713.8	17318.9	16820.1	16238.2	15573.1	14838.8	14045.6
0°	18451.5	18410.0	18261.0	18046.3	17762.3	17367.4	16868.6	16283.2	15618.2	14880.4	14083.7



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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°	124.7	124.7	121.2	117.8	114.3	107.4	103.9	100.4	97.0	90.1	86.6
85°	263.2	256.3	249.4	242.5	232.1	225.1	214.8	207.8	197.4	187.0	176.7
82.5°	415.7	405.3	391.4	381.0	367.2	349.8	336.0	318.7	301.3	287.5	270.2
80°	581.9	564.6	547.3	530.0	509.2	488.4	467.6	446.8	422.6	398.3	374.1
77.5°	762.0	737.8	713.5	685.8	661.6	633.9	606.2	578.5	547.3	516.1	484.9
75°	962.9	931.8	897.1	862.5	831.3	793.2	755.1	717.0	675.4	637.3	595.8
72.5°	1181.1	1143.0	1101.5	1059.9	1014.9	966.4	917.9	865.9	817.5	769.0	717.0
70°	1416.7	1371.7	1319.7	1267.7	1212.3	1153.4	1094.6	1032.2	969.9	907.5	845.2
67.5°	1669.5	1614.1	1551.8	1489.4	1420.1	1350.9	1281.6	1208.9	1132.7	1056.5	983.7
65°	1939.7	1870.4	1797.7	1718.0	1638.4	1558.7	1475.6	1389.0	1302.4	1212.3	1132.7
62.5°	2241.1	2154.5	2060.9	1964.0	1873.9	1776.9	1686.9	1579.5	1475.6	1375.1	1274.7
60°	2590.9	2476.6	2362.3	2241.1	2126.8	2002.1	1891.2	1773.5	1655.7	1541.4	1423.6
57.5°	2982.3	2836.8	2698.3	2552.8	2400.4	2261.8	2119.8	1977.8	1846.2	1711.1	1582.9
55°	3425.7	3249.0	3075.8	2895.7	2719.1	2545.9	2365.8	2206.4	2043.6	1891.2	1742.3
52.5°	3910.6	3709.7	3495.0	3290.6	3065.4	2850.7	2649.8	2448.9	2258.4	2074.8	1905.1
50°	4430.2	4194.6	3948.7	3699.3	3443.0	3190.1	2947.7	2712.1	2490.5	2275.7	2074.8
47.5°	4970.5	4703.8	4423.2	4139.2	3865.6	3557.3	3266.3	2999.6	2732.9	2490.5	2258.4
45°	5524.7	5223.4	4915.1	4593.0	4270.8	3938.3	3616.2	3290.6	2999.6	2712.1	2448.9
42.5°	6096.3	5756.8	5413.9	5057.1	4700.3	4336.7	3973.0	3616.2	3266.3	2947.7	2649.8
40°	6685.1	6311.0	5919.6	5531.7	5150.6	4735.0	4336.7	3938.3	3557.3	3190.1	2850.7
37.5°	7273.9	6865.2	6442.6	6006.2	5569.8	5150.6	4700.3	4270.8	3865.6	3443.0	3065.4
35°	7866.2	7415.9	6958.7	6484.2	6006.2	5531.7	5057.1	4593.0	4139.2	3699.3	3290.6
32.5°	8462.0	7970.2	7464.4	6958.7	6442.6	5919.6	5413.9	4915.1	4423.2	3948.7	3495.0
30°	9047.4	8514.0	7970.2	7415.9	6865.2	6311.0	5756.8	5223.4	4703.8	4194.6	3709.7
27.5°	9618.9	9047.4	8462.0	7866.2	7273.9	6685.1	6096.3	5524.7	4970.5	4430.2	3910.6
25°	10169.7	9560.0	8933.1	8299.2	7668.8	7041.9	6421.8	5805.3	5223.4	4655.3	4111.5
22.5°	10689.2	10045.0	9383.4	8711.4	8036.0	7374.4	6723.2	6082.4	5462.4	4866.6	4295.1
20°	11188.0	10498.7	9826.7	9092.4	8385.8	7689.6	7007.2	6335.3	5680.6	5060.6	4461.3
17.5°	11641.8	10917.8	10183.5	9445.7	8704.5	7973.6	7260.1	6591.6	5881.5	5237.2	4620.7
15°	12050.5	11295.4	10526.4	9760.9	8988.5	8229.9	7488.7	6768.2	6065.1	5396.6	4759.2
12.5°	12407.3	11624.4	10827.8	10034.6	9241.4	8455.1	7689.6	6944.9	6224.4	5531.7	4877.0
10°	12701.7	11901.5	11080.6	10263.2	9449.2	8642.1	7852.4	7093.8	6356.0	5646.0	4974.0
7.5°	12940.7	12119.8	11285.0	10443.3	9612.0	8787.6	7984.0	7208.1	6459.9	5732.6	5050.2
5°	13110.4	12279.1	11430.5	10571.5	9729.8	8895.0	8077.5	7291.3	6532.7	5794.9	5105.6
2.5°	13217.8	12407.3	11548.2	10678.8	9826.7	8981.6	8153.7	7357.1	6591.6	5846.9	5150.6
0°	13252.4	12407.3	11548.2	10678.8	9826.7	8981.6	8153.7	7357.1	6591.6	5846.9	5150.6

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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°	83.1	76.2	69.3	65.8	58.9	55.4	48.5	41.6	38.1	31.2	24.2
85°	166.3	152.4	142.0	131.6	121.2	107.4	97.0	86.6	72.7	62.3	48.5
82.5°	252.9	235.5	218.2	200.9	183.6	166.3	145.5	128.2	110.8	93.5	72.7
80°	349.8	322.1	297.9	273.6	249.4	225.1	197.4	173.2	145.5	121.2	97.0
77.5°	450.3	419.1	384.5	349.8	315.2	284.0	249.4	218.2	187.0	152.4	121.2
75°	557.7	516.1	478.0	433.0	391.4	346.4	304.8	263.2	225.1	187.0	145.5
72.5°	668.5	616.6	564.6	516.1	464.1	412.2	363.7	311.7	263.2	218.2	173.2
70°	782.8	720.5	658.1	599.2	540.3	478.0	422.6	363.7	304.8	249.4	197.4
67.5°	904.0	831.3	758.6	682.4	616.6	547.3	478.0	412.2	346.4	284.0	225.1
65°	1035.7	949.1	859.0	779.4	692.8	616.6	540.3	464.1	391.4	315.2	249.4
62.5°	1170.8	1070.3	969.9	869.4	779.4	682.4	599.2	516.1	433.0	349.8	273.6
60°	1309.3	1195.0	1080.7	969.9	859.0	758.6	658.1	564.6	478.0	384.5	297.9
57.5°	1451.3	1323.2	1195.0	1070.3	949.1	831.3	720.5	616.6	516.1	419.1	322.1
55°	1596.8	1451.3	1309.3	1170.8	1035.7	904.0	782.8	668.5	557.7	450.3	349.8
52.5°	1742.3	1582.9	1423.6	1274.7	1132.7	983.7	845.2	717.0	595.8	484.9	374.1
50°	1891.2	1711.1	1541.4	1375.1	1212.3	1056.5	907.5	769.0	637.3	516.1	398.3
47.5°	2043.6	1846.2	1655.7	1475.6	1302.4	1132.7	969.9	817.5	675.4	547.3	422.6
45°	2206.4	1977.8	1773.5	1579.5	1389.0	1208.9	1032.2	865.9	717.0	578.5	446.8
42.5°	2365.8	2119.8	1891.2	1686.9	1475.6	1281.6	1094.6	917.9	755.1	606.2	467.6
40°	2545.9	2261.8	2002.1	1776.9	1558.7	1350.9	1153.4	966.4	793.2	633.9	488.4
37.5°	2719.1	2400.4	2126.8	1873.9	1638.4	1420.1	1212.3	1014.9	831.3	661.6	509.2
35°	2895.7	2552.8	2241.1	1964.0	1718.0	1489.4	1267.7	1059.9	862.5	685.8	530.0
32.5°	3075.8	2698.3	2362.3	2060.9	1797.7	1551.8	1319.7	1101.5	897.1	713.5	547.3
30°	3249.0	2836.8	2476.6	2154.5	1870.4	1614.1	1371.7	1143.0	931.8	737.8	564.6
27.5°	3425.7	2982.3	2590.9	2241.1	1939.7	1669.5	1416.7	1181.1	962.9	762.0	581.9
25°	3595.4	3120.9	2698.3	2324.2	2002.1	1725.0	1465.2	1219.3	990.6	782.8	595.8
22.5°	3751.3	3242.1	2795.3	2403.9	2067.9	1773.5	1506.7	1253.9	1018.4	803.6	609.6
20°	3893.3	3366.8	2895.7	2483.5	2130.2	1821.9	1541.4	1285.1	1042.6	820.9	623.5
17.5°	4031.8	3481.1	2985.8	2556.3	2182.2	1863.5	1576.0	1309.3	1063.4	834.8	633.9
15°	4149.6	3581.5	3065.4	2618.6	2230.7	1898.2	1603.7	1333.6	1080.7	848.6	640.8
12.5°	4253.5	3668.1	3134.7	2670.6	2268.8	1929.3	1631.4	1354.3	1098.0	859.0	651.2
10°	4336.7	3737.4	3190.1	2715.6	2303.4	1953.6	1648.8	1371.7	1108.4	869.4	658.1
7.5°	4402.5	3792.8	3235.2	2746.8	2327.7	1974.4	1666.1	1382.0	1118.8	876.3	668.5
5°	4451.0	3834.4	3266.3	2771.0	2348.4	1998.6	1686.9	1399.4	1132.7	886.7	668.5
2.5°	4489.1	3865.6	3290.6	2791.8	2362.3	1998.6	1686.9	1399.4	1132.7	886.7	668.5
0°	4489.1	3865.6	3290.6	2791.8	2362.3	1998.6	1686.9	1399.4	1132.7	886.7	668.5

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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	24.2	13.9	0.0
82.5°	55.4	38.1	17.3	0.0
80°	72.7	48.5	24.2	0.0
77.5°	93.5	62.3	31.2	0.0
75°	110.8	72.7	38.1	0.0
72.5°	128.2	86.6	41.6	0.0
70°	145.5	97.0	48.5	0.0
67.5°	166.3	107.4	55.4	0.0
65°	183.6	121.2	58.9	0.0
62.5°	200.9	131.6	65.8	0.0
60°	218.2	142.0	69.3	0.0
57.5°	235.5	152.4	76.2	0.0
55°	252.9	166.3	83.1	0.0
52.5°	270.2	176.7	86.6	0.0
50°	287.5	187.0	90.1	0.0
47.5°	301.3	197.4	97.0	0.0
45°	318.7	207.8	100.4	0.0
42.5°	336.0	214.8	103.9	0.0
40°	349.8	225.1	107.4	0.0
37.5°	367.2	232.1	114.3	0.0
35°	381.0	242.5	117.8	0.0
32.5°	391.4	249.4	121.2	0.0
30°	405.3	256.3	124.7	0.0
27.5°	415.7	263.2	124.7	0.0
25°	426.0	270.2	128.2	0.0
22.5°	436.4	273.6	131.6	0.0
20°	446.8	280.6	135.1	0.0
17.5°	453.8	284.0	135.1	0.0
15°	460.7	287.5	142.0	0.0
12.5°	464.1	291.0	142.0	0.0
10°	471.1	297.9	142.0	0.0
7.5°	478.0	297.9	142.0	0.0
5°	478.0	297.9	142.0	0.0
2.5°	478.0	297.9	142.0	0.0
0°	478.0	297.9	142.0	0.0

(END OF REPORT)