

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: P623904

Luminaire Tested: **IFLD-S-SA3B-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623904
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

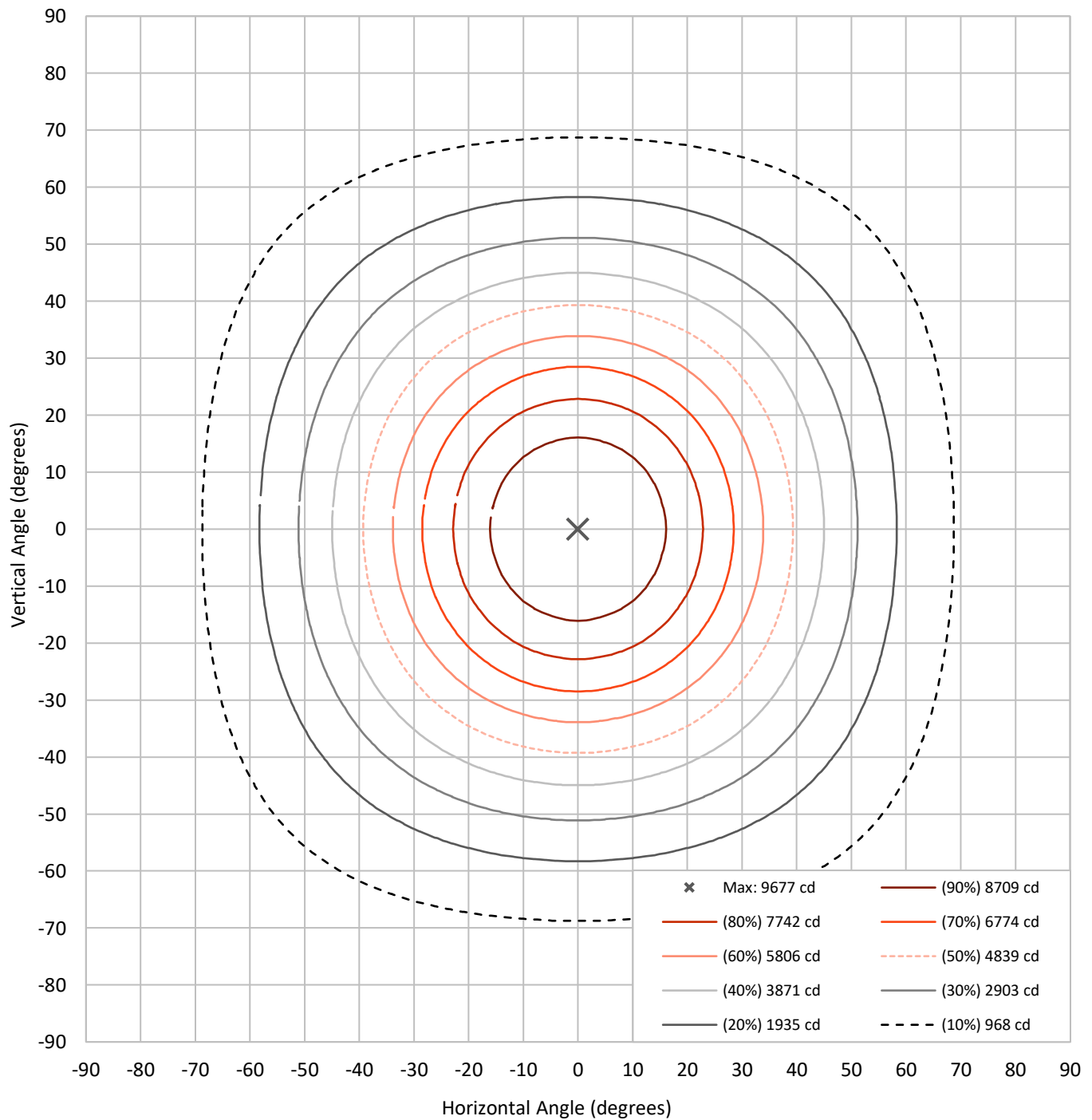
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17423.7 lumens	Max Intensity:	9677 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	142.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	7539.1 lumens	Field Lumens:	12344.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	122.4		
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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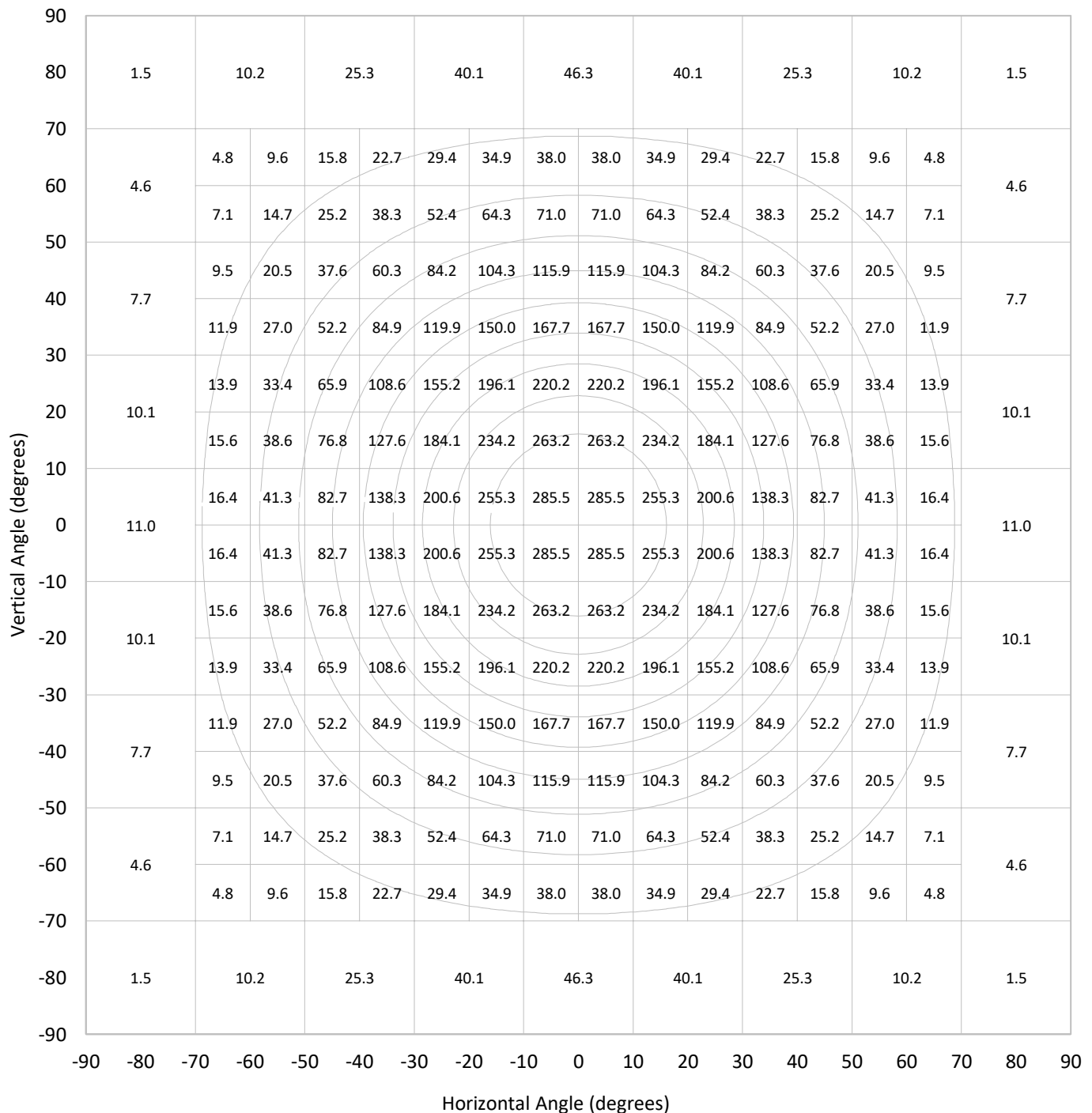
CATALOG NUMBER: IFLD-S-SA3B-735-U-77

Iso-Candela Plot



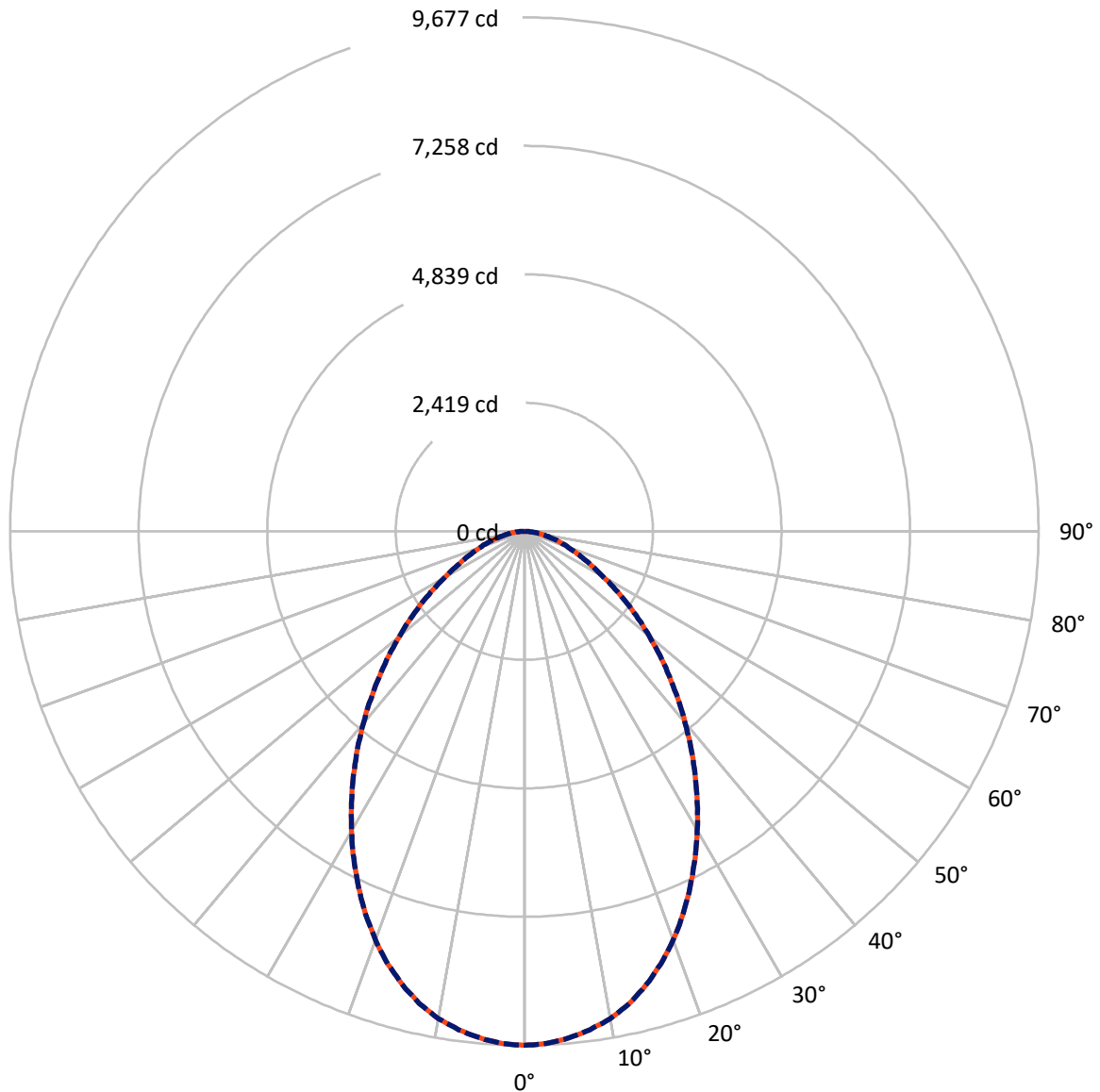
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Lumen Table



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Luminous Intensity Polar Plot

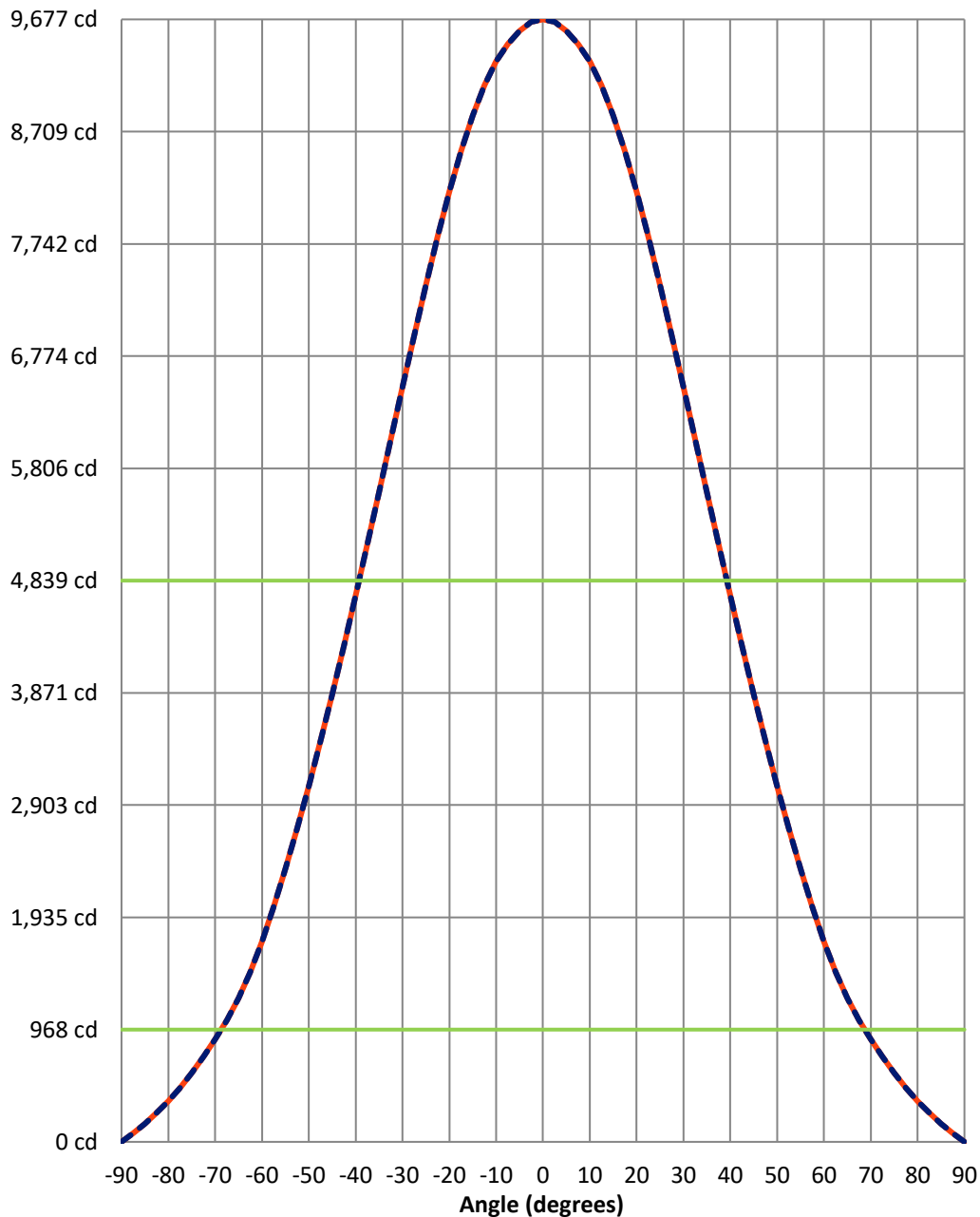


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 7539.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 12344.9
Efficiency: 70.9%

Spill:

Lumens: 5078.7
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°	74.5	74.5	74.5	74.5	74.5	74.5	74.5	70.8	70.8	69.0	67.2
85°	156.2	156.2	156.2	156.2	156.2	152.6	150.8	149.0	147.1	143.5	141.7
82.5°	250.7	250.7	250.7	250.7	247.1	243.4	241.6	238.0	234.3	228.9	223.4
80°	350.6	350.6	350.6	350.6	345.2	341.5	336.1	332.4	327.0	319.7	312.5
77.5°	465.0	465.0	465.0	459.6	456.0	450.5	445.1	437.8	430.5	421.5	410.6
75°	594.0	594.0	594.0	586.8	581.3	575.9	566.8	557.7	546.8	534.1	519.5
72.5°	733.9	733.9	733.9	724.8	719.4	710.3	699.4	686.7	674.0	657.6	639.4
70°	884.7	884.7	884.7	873.8	864.7	855.6	841.1	826.6	808.4	790.2	768.4
67.5°	1048.2	1048.2	1048.2	1035.5	1024.6	1011.8	995.5	977.3	955.5	930.1	904.7
65°	1238.9	1238.9	1231.7	1220.8	1208.0	1189.9	1169.9	1144.5	1117.2	1084.5	1050.0
62.5°	1464.2	1464.2	1453.3	1440.6	1424.2	1400.6	1373.3	1340.6	1302.5	1260.7	1218.9
60°	1725.8	1725.8	1713.1	1696.7	1673.1	1644.0	1607.7	1565.9	1518.7	1466.0	1415.1
57.5°	2027.3	2027.3	2011.0	1989.2	1960.1	1923.8	1878.4	1825.7	1765.7	1700.3	1636.8
55°	2354.3	2354.3	2334.3	2308.9	2274.4	2230.8	2176.3	2114.5	2041.9	1967.4	1885.6
52.5°	2701.3	2701.3	2677.7	2648.6	2608.6	2557.8	2496.0	2423.3	2339.8	2252.6	2156.3
50°	3066.4	3066.4	3039.2	3006.5	2961.1	2901.1	2830.3	2746.7	2654.0	2552.3	2441.5
47.5°	3457.0	3457.0	3426.1	3388.0	3333.5	3264.4	3180.9	3084.6	2979.2	2864.8	2739.4
45°	3858.5	3858.5	3823.9	3780.3	3720.4	3642.3	3549.6	3457.0	3322.6	3189.9	3044.6
42.5°	4276.3	4276.3	4236.3	4187.3	4118.2	4032.8	3927.5	3807.6	3675.0	3526.0	3368.0
40°	4710.4	4710.4	4665.0	4608.7	4532.4	4434.3	4316.2	4181.8	4032.8	3867.5	3693.1
37.5°	5153.7	5153.7	5102.8	5041.1	4955.7	4846.7	4714.1	4565.1	4398.0	4214.5	4021.9
35°	5600.6	5600.6	5544.3	5477.0	5382.6	5262.7	5119.2	4953.9	4768.6	4568.7	4352.6
32.5°	6056.5	6056.5	5994.8	5918.5	5811.3	5678.7	5520.6	5340.8	5153.7	4921.2	4685.0
30°	6507.1	6507.1	6439.8	6356.3	6241.8	6096.5	5923.9	5725.9	5506.1	5268.1	5013.8
27.5°	6950.3	6932.1	6875.8	6786.8	6661.5	6507.1	6319.9	6105.6	5867.6	5606.0	5333.5
25°	7386.3	7366.3	7304.5	7206.4	7072.0	6903.1	6701.4	6472.5	6216.4	5940.3	5642.4
22.5°	7804.1	7782.3	7716.9	7611.5	7468.0	7284.6	7068.4	6823.1	6550.7	6254.5	5940.3
20°	8191.0	8167.4	8100.2	7989.4	7840.4	7646.1	7417.2	7153.8	6863.1	6550.7	6216.4
17.5°	8539.8	8516.2	8445.4	8330.9	8191.0	7974.9	7738.7	7460.8	7153.8	6823.1	6472.5
15°	8846.8	8821.4	8748.7	8634.3	8474.4	8271.0	8022.1	7738.7	7417.2	7068.4	6701.4
12.5°	9108.4	9083.0	9008.5	8894.1	8728.8	8525.3	8271.0	7974.9	7646.1	7284.6	6903.1
10°	9315.5	9290.1	9219.2	9110.2	8939.5	8728.8	8474.4	8191.0	7840.4	7468.0	7072.0
7.5°	9464.5	9440.9	9375.5	9266.5	9110.2	8894.1	8634.3	8330.9	7989.4	7611.5	7206.4
5°	9577.1	9549.9	9484.5	9375.5	9219.2	9008.5	8748.7	8445.4	8100.2	7716.9	7304.5
2.5°	9655.2	9622.5	9549.9	9440.9	9290.1	9083.0	8821.4	8516.2	8167.4	7782.3	7366.3
0°	9677.0	9655.2	9577.1	9464.5	9315.5	9108.4	8846.8	8539.8	8191.0	7804.1	7386.3

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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°	65.4	65.4	63.6	61.8	59.9	56.3	54.5	52.7	50.9	47.2	45.4
85°	138.1	134.4	130.8	127.2	121.7	118.1	112.6	109.0	103.5	98.1	92.6
82.5°	218.0	212.5	205.3	199.8	192.6	183.5	176.2	167.1	158.0	150.8	141.7
80°	305.2	296.1	287.0	277.9	267.0	256.1	245.2	234.3	221.6	208.9	196.2
77.5°	399.7	386.9	374.2	359.7	347.0	332.4	317.9	303.4	287.0	270.7	254.3
75°	505.0	488.7	470.5	452.3	436.0	416.0	396.0	376.0	354.2	334.3	312.5
72.5°	619.5	599.5	577.7	555.9	532.3	506.8	481.4	454.1	428.7	403.3	376.0
70°	743.0	719.4	692.1	664.9	635.8	604.9	574.0	541.3	508.6	475.9	443.2
67.5°	875.6	846.5	813.8	781.1	744.8	708.5	672.1	634.0	594.0	554.1	515.9
65°	1017.3	981.0	942.8	901.0	859.3	817.5	773.9	728.5	683.0	635.8	594.0
62.5°	1175.3	1129.9	1080.9	1030.0	982.8	931.9	884.7	828.4	773.9	721.2	668.5
60°	1358.8	1298.9	1238.9	1175.3	1115.4	1050.0	991.9	930.1	868.3	808.4	746.6
57.5°	1564.1	1487.8	1415.1	1338.8	1258.9	1186.2	1111.8	1037.3	968.2	897.4	830.2
55°	1796.6	1704.0	1613.1	1518.7	1426.0	1335.2	1240.7	1157.2	1071.8	991.9	913.7
52.5°	2050.9	1945.6	1832.9	1725.8	1607.7	1495.1	1389.7	1284.3	1184.4	1088.1	999.1
50°	2323.4	2199.9	2070.9	1940.1	1805.7	1673.1	1545.9	1422.4	1306.1	1193.5	1088.1
47.5°	2606.8	2466.9	2319.8	2170.8	2027.3	1865.6	1713.1	1573.2	1433.3	1306.1	1184.4
45°	2897.5	2739.4	2577.8	2408.8	2239.9	2065.5	1896.5	1725.8	1573.2	1422.4	1284.3
42.5°	3197.2	3019.2	2839.3	2652.2	2465.1	2274.4	2083.6	1896.5	1713.1	1545.9	1389.7
40°	3506.0	3309.8	3104.6	2901.1	2701.3	2483.3	2274.4	2065.5	1865.6	1673.1	1495.1
37.5°	3814.9	3600.5	3378.9	3150.0	2921.1	2701.3	2465.1	2239.9	2027.3	1805.7	1607.7
35°	4125.5	3889.3	3649.5	3400.7	3150.0	2901.1	2652.2	2408.8	2170.8	1940.1	1725.8
32.5°	4437.9	4180.0	3914.8	3649.5	3378.9	3104.6	2839.3	2577.8	2319.8	2070.9	1832.9
30°	4745.0	4465.2	4180.0	3889.3	3600.5	3309.8	3019.2	2739.4	2466.9	2199.9	1945.6
27.5°	5044.7	4745.0	4437.9	4125.5	3814.9	3506.0	3197.2	2897.5	2606.8	2323.4	2050.9
25°	5333.5	5013.8	4685.0	4352.6	4021.9	3693.1	3368.0	3044.6	2739.4	2441.5	2156.3
22.5°	5606.0	5268.1	4921.2	4568.7	4214.5	3867.5	3526.0	3189.9	2864.8	2552.3	2252.6
20°	5867.6	5506.1	5153.7	4768.6	4398.0	4032.8	3675.0	3322.6	2979.2	2654.0	2339.8
17.5°	6105.6	5725.9	5340.8	4953.9	4565.1	4181.8	3807.6	3457.0	3084.6	2746.7	2423.3
15°	6319.9	5923.9	5520.6	5119.2	4714.1	4316.2	3927.5	3549.6	3180.9	2830.3	2496.0
12.5°	6507.1	6096.5	5678.7	5262.7	4846.7	4434.3	4032.8	3642.3	3264.4	2901.1	2557.8
10°	6661.5	6241.8	5811.3	5382.6	4955.7	4532.4	4118.2	3720.4	3333.5	2961.1	2608.6
7.5°	6786.8	6356.3	5918.5	5477.0	5041.1	4608.7	4187.3	3780.3	3388.0	3006.5	2648.6
5°	6875.8	6439.8	5994.8	5544.3	5102.8	4665.0	4236.3	3823.9	3426.1	3039.2	2677.7
2.5°	6932.1	6507.1	6056.5	5600.6	5153.7	4710.4	4276.3	3858.5	3457.0	3066.4	2701.3
0°	6950.3	6507.1	6056.5	5600.6	5153.7	4710.4	4276.3	3858.5	3457.0	3066.4	2701.3

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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°	43.6	40.0	36.3	34.5	30.9	29.1	25.4	21.8	20.0	16.3	12.7
85°	87.2	79.9	74.5	69.0	63.6	56.3	50.9	45.4	38.1	32.7	25.4
82.5°	132.6	123.5	114.4	105.4	96.3	87.2	76.3	67.2	58.1	49.0	38.1
80°	183.5	168.9	156.2	143.5	130.8	118.1	103.5	90.8	76.3	63.6	50.9
77.5°	236.2	219.8	201.6	183.5	165.3	149.0	130.8	114.4	98.1	79.9	63.6
75°	292.5	270.7	250.7	227.1	205.3	181.7	159.9	138.1	118.1	98.1	76.3
72.5°	350.6	323.4	296.1	270.7	243.4	216.2	190.7	163.5	138.1	114.4	90.8
70°	410.6	377.9	345.2	314.3	283.4	250.7	221.6	190.7	159.9	130.8	103.5
67.5°	474.1	436.0	397.8	357.9	323.4	287.0	250.7	216.2	181.7	149.0	118.1
65°	543.2	497.7	450.5	408.7	363.3	323.4	283.4	243.4	205.3	165.3	130.8
62.5°	614.0	561.3	508.6	456.0	408.7	357.9	314.3	270.7	227.1	183.5	143.5
60°	686.7	626.7	566.8	508.6	450.5	397.8	345.2	296.1	250.7	201.6	156.2
57.5°	761.2	693.9	626.7	561.3	497.7	436.0	377.9	323.4	270.7	219.8	168.9
55°	837.5	761.2	686.7	614.0	543.2	474.1	410.6	350.6	292.5	236.2	183.5
52.5°	913.7	830.2	746.6	668.5	594.0	515.9	443.2	376.0	312.5	254.3	196.2
50°	991.9	897.4	808.4	721.2	635.8	554.1	475.9	403.3	334.3	270.7	208.9
47.5°	1071.8	968.2	868.3	773.9	683.0	594.0	508.6	428.7	354.2	287.0	221.6
45°	1157.2	1037.3	930.1	828.4	728.5	634.0	541.3	454.1	376.0	303.4	234.3
42.5°	1240.7	1111.8	991.9	884.7	773.9	672.1	574.0	481.4	396.0	317.9	245.2
40°	1335.2	1186.2	1050.0	931.9	817.5	708.5	604.9	506.8	416.0	332.4	256.1
37.5°	1426.0	1258.9	1115.4	982.8	859.3	744.8	635.8	532.3	436.0	347.0	267.0
35°	1518.7	1338.8	1175.3	1030.0	901.0	781.1	664.9	555.9	452.3	359.7	277.9
32.5°	1613.1	1415.1	1238.9	1080.9	942.8	813.8	692.1	577.7	470.5	374.2	287.0
30°	1704.0	1487.8	1298.9	1129.9	981.0	846.5	719.4	599.5	488.7	386.9	296.1
27.5°	1796.6	1564.1	1358.8	1175.3	1017.3	875.6	743.0	619.5	505.0	399.7	305.2
25°	1885.6	1636.8	1415.1	1218.9	1050.0	904.7	768.4	639.4	519.5	410.6	312.5
22.5°	1967.4	1700.3	1466.0	1260.7	1084.5	930.1	790.2	657.6	534.1	421.5	319.7
20°	2041.9	1765.7	1518.7	1302.5	1117.2	955.5	808.4	674.0	546.8	430.5	327.0
17.5°	2114.5	1825.7	1565.9	1340.6	1144.5	977.3	826.6	686.7	557.7	437.8	332.4
15°	2176.3	1878.4	1607.7	1373.3	1169.9	995.5	841.1	699.4	566.8	445.1	336.1
12.5°	2230.8	1923.8	1644.0	1400.6	1189.9	1011.8	855.6	710.3	575.9	450.5	341.5
10°	2274.4	1960.1	1673.1	1424.2	1208.0	1024.6	864.7	719.4	581.3	456.0	345.2
7.5°	2308.9	1989.2	1696.7	1440.6	1220.8	1035.5	873.8	724.8	586.8	459.6	350.6
5°	2334.3	2011.0	1713.1	1453.3	1231.7	1048.2	884.7	733.9	594.0	465.0	350.6
2.5°	2354.3	2027.3	1725.8	1464.2	1238.9	1048.2	884.7	733.9	594.0	465.0	350.6
0°	2354.3	2027.3	1725.8	1464.2	1238.9	1048.2	884.7	733.9	594.0	465.0	350.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.1	7.3	3.6	0.0
85°	20.0	12.7	7.3	0.0
82.5°	29.1	20.0	9.1	0.0
80°	38.1	25.4	12.7	0.0
77.5°	49.0	32.7	16.3	0.0
75°	58.1	38.1	20.0	0.0
72.5°	67.2	45.4	21.8	0.0
70°	76.3	50.9	25.4	0.0
67.5°	87.2	56.3	29.1	0.0
65°	96.3	63.6	30.9	0.0
62.5°	105.4	69.0	34.5	0.0
60°	114.4	74.5	36.3	0.0
57.5°	123.5	79.9	40.0	0.0
55°	132.6	87.2	43.6	0.0
52.5°	141.7	92.6	45.4	0.0
50°	150.8	98.1	47.2	0.0
47.5°	158.0	103.5	50.9	0.0
45°	167.1	109.0	52.7	0.0
42.5°	176.2	112.6	54.5	0.0
40°	183.5	118.1	56.3	0.0
37.5°	192.6	121.7	59.9	0.0
35°	199.8	127.2	61.8	0.0
32.5°	205.3	130.8	63.6	0.0
30°	212.5	134.4	65.4	0.0
27.5°	218.0	138.1	65.4	0.0
25°	223.4	141.7	67.2	0.0
22.5°	228.9	143.5	69.0	0.0
20°	234.3	147.1	70.8	0.0
17.5°	238.0	149.0	70.8	0.0
15°	241.6	150.8	74.5	0.0
12.5°	243.4	152.6	74.5	0.0
10°	247.1	156.2	74.5	0.0
7.5°	250.7	156.2	74.5	0.0
5°	250.7	156.2	74.5	0.0
2.5°	250.7	156.2	74.5	0.0
0°	250.7	156.2	74.5	0.0

(END OF REPORT)