

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: P623933

Luminaire Tested: **IFLD-S-SA3B-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623933
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

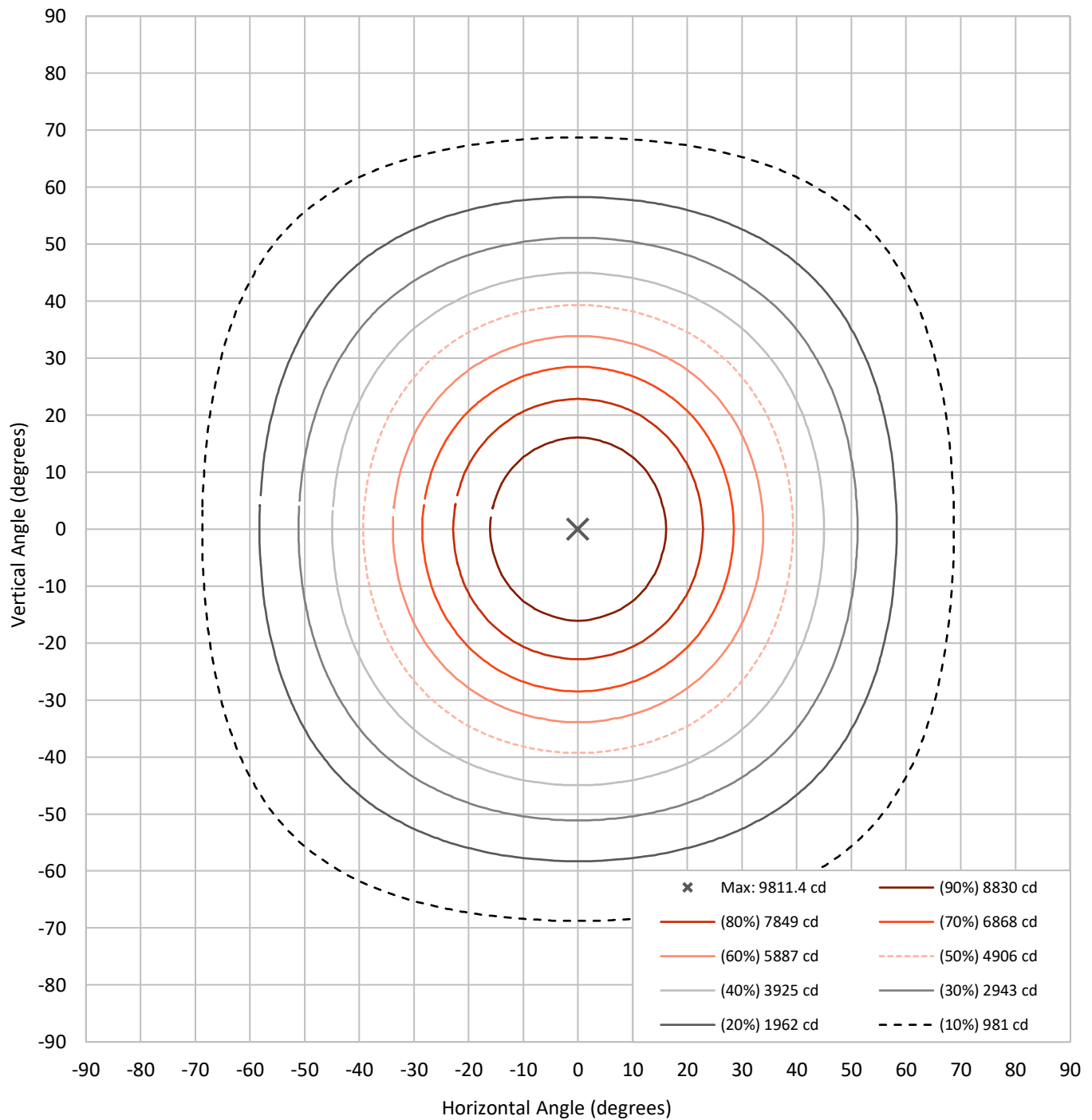
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17665.7 lumens	Max Intensity:	9811.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	144.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	7643.8 lumens	Field Lumens:	12516.4 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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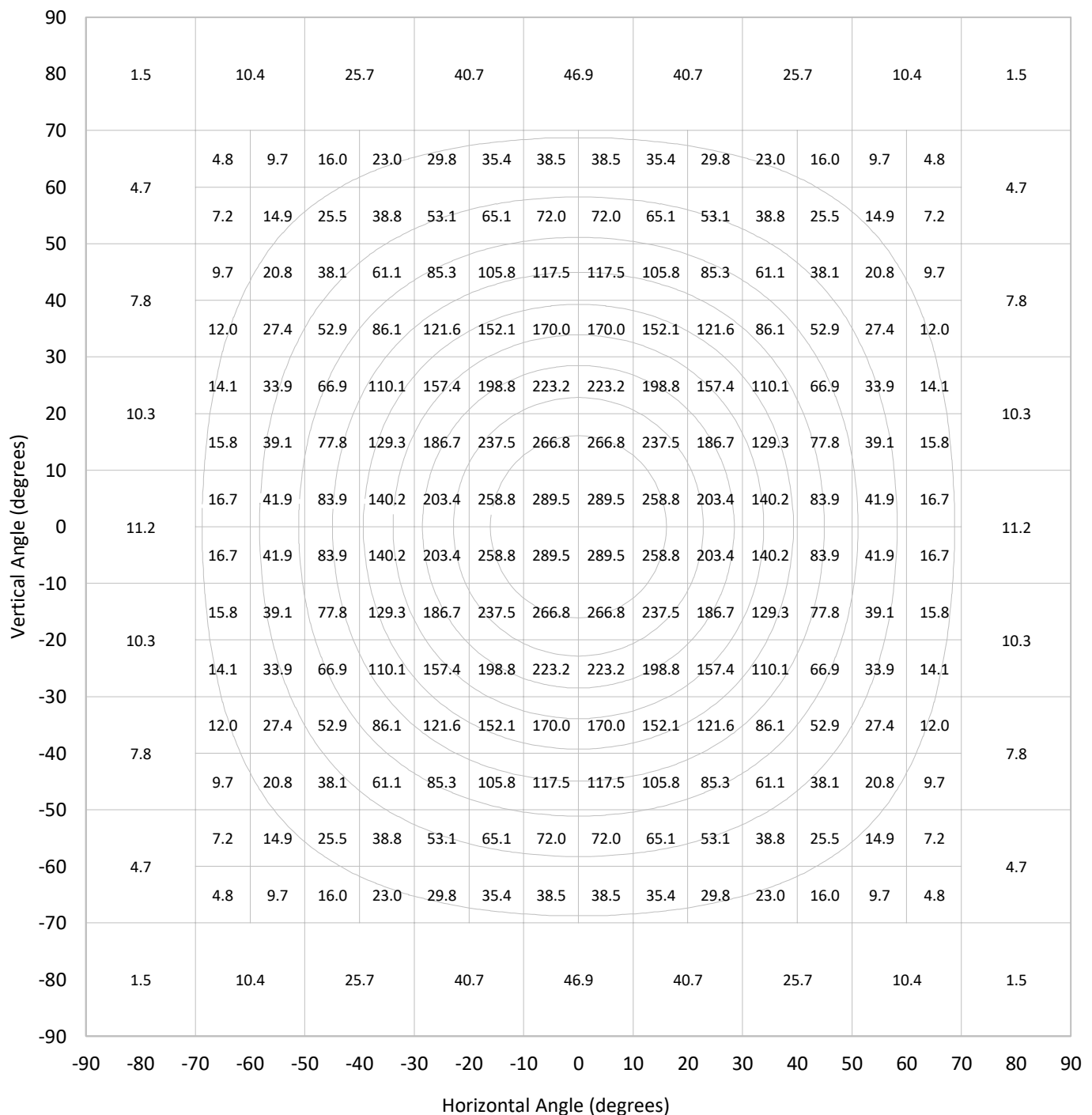
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Iso-Candela Plot



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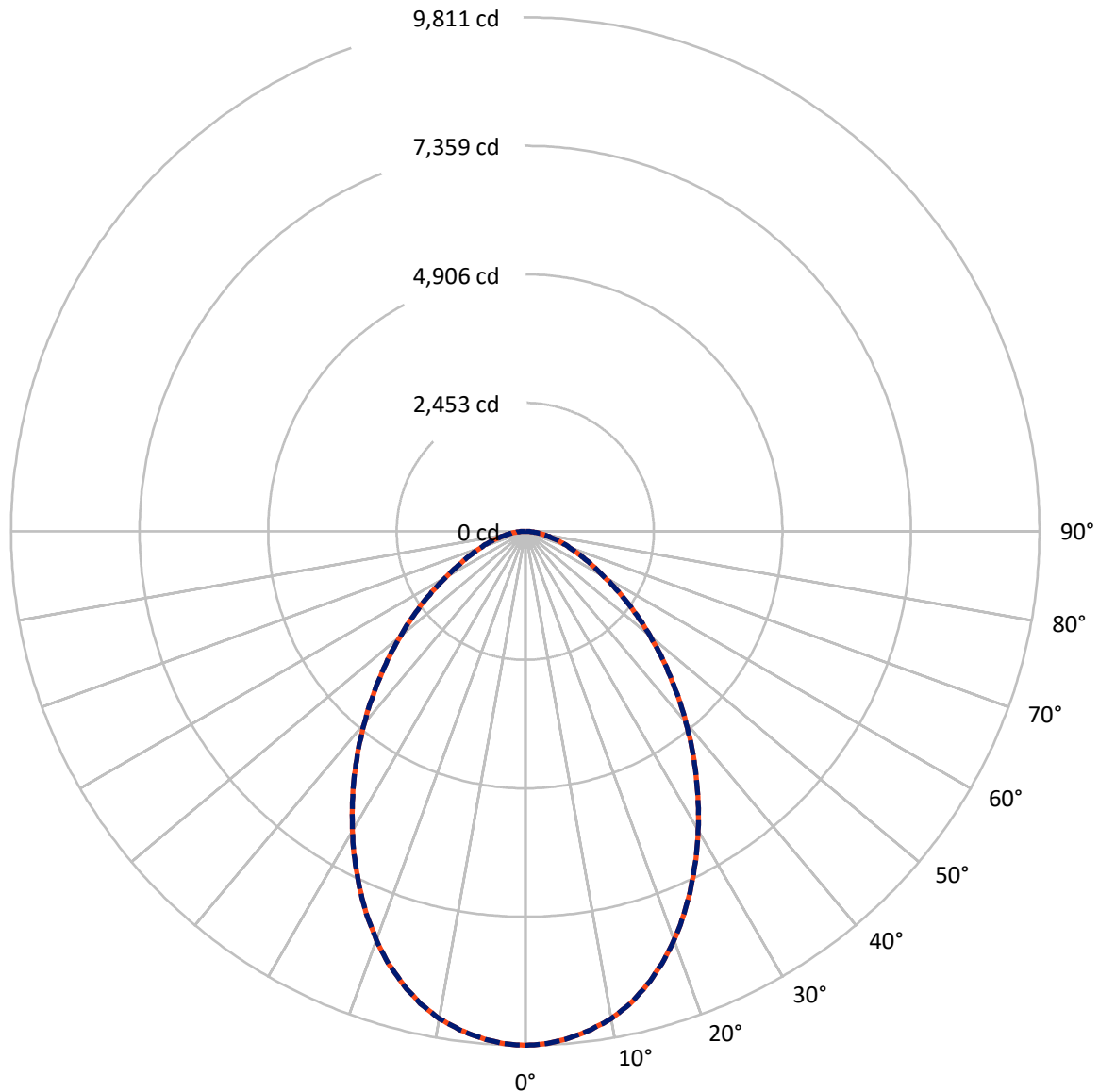
Lumen Table



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Luminous Intensity Polar Plot

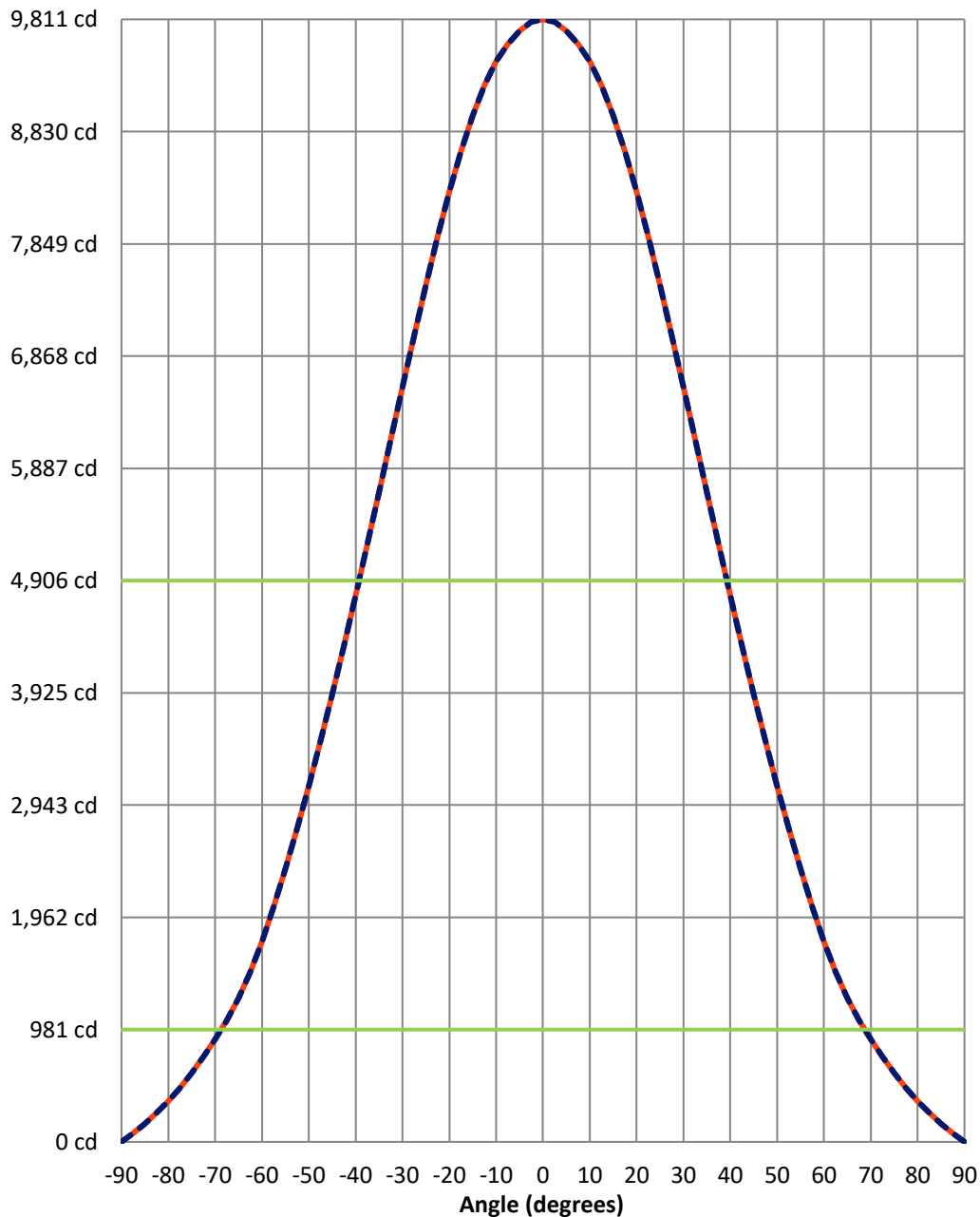


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 7643.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 12516.4
Efficiency: 70.9%

Spill:

Lumens: 5149.3
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°	75.5	75.5	75.5	75.5	75.5	75.5	75.5	71.8	71.8	70.0	68.1
85°	158.4	158.4	158.4	158.4	158.4	154.7	152.9	151.0	149.2	145.5	143.7
82.5°	254.2	254.2	254.2	254.2	250.5	246.8	245.0	241.3	237.6	232.1	226.5
80°	355.5	355.5	355.5	355.5	349.9	346.3	340.7	337.1	331.5	324.2	316.8
77.5°	471.5	471.5	471.5	466.0	462.3	456.8	451.2	443.9	436.5	427.3	416.3
75°	602.3	602.3	602.3	594.9	589.4	583.9	574.7	565.4	554.4	541.5	526.8
72.5°	744.1	744.1	744.1	734.9	729.4	720.2	709.1	696.2	683.3	666.7	648.3
70°	897.0	897.0	897.0	885.9	876.7	867.5	852.8	838.0	819.6	801.2	779.1
67.5°	1062.7	1062.7	1062.7	1049.8	1038.8	1025.9	1009.3	990.9	968.8	943.0	917.2
65°	1256.1	1256.1	1248.8	1237.7	1224.8	1206.4	1186.1	1160.4	1132.7	1099.6	1064.6
62.5°	1484.5	1484.5	1473.5	1460.6	1444.0	1420.1	1392.4	1359.3	1320.6	1278.2	1235.9
60°	1749.7	1749.7	1736.8	1720.3	1696.3	1666.9	1630.0	1587.7	1539.8	1486.4	1434.8
57.5°	2055.5	2055.5	2038.9	2016.8	1987.3	1950.5	1904.5	1851.0	1790.3	1724.0	1659.5
55°	2387.0	2387.0	2366.8	2341.0	2306.0	2261.8	2206.5	2143.9	2070.2	1994.7	1911.8
52.5°	2738.8	2738.8	2714.9	2685.4	2644.9	2593.3	2530.7	2457.0	2372.3	2283.9	2186.3
50°	3109.0	3109.0	3081.4	3048.2	3002.2	2941.4	2869.6	2784.8	2690.9	2587.8	2475.4
47.5°	3505.0	3505.0	3473.7	3435.0	3379.8	3309.8	3225.0	3127.4	3020.6	2904.6	2777.5
45°	3912.0	3912.0	3877.1	3832.8	3772.1	3692.9	3598.9	3505.0	3368.7	3234.3	3086.9
42.5°	4335.7	4335.7	4295.1	4245.4	4175.4	4088.9	3982.0	3860.5	3726.0	3575.0	3414.8
40°	4775.9	4775.9	4729.8	4672.7	4595.4	4495.9	4376.2	4239.9	4088.9	3921.3	3744.4
37.5°	5225.3	5225.3	5173.7	5111.1	5024.5	4914.0	4779.6	4628.5	4459.1	4273.0	4077.8
35°	5678.4	5678.4	5621.3	5553.1	5457.3	5335.8	5190.3	5022.7	4834.8	4632.2	4413.0
32.5°	6140.7	6140.7	6078.0	6000.7	5892.0	5757.6	5597.3	5415.0	5225.3	4989.5	4750.1
30°	6597.4	6597.4	6529.3	6444.6	6328.5	6181.2	6006.2	5805.4	5582.6	5341.3	5083.5
27.5°	7046.8	7028.4	6971.3	6881.1	6754.0	6597.4	6407.7	6190.4	5949.1	5683.9	5407.6
25°	7488.9	7468.6	7406.0	7306.5	7170.2	6999.0	6794.5	6562.4	6302.7	6022.8	5720.7
22.5°	7912.5	7890.4	7824.1	7717.3	7571.8	7385.7	7166.6	6917.9	6641.6	6341.4	6022.8
20°	8304.8	8280.9	8212.7	8100.4	7949.3	7752.3	7520.2	7253.1	6958.4	6641.6	6302.7
17.5°	8658.4	8634.5	8562.7	8446.6	8304.8	8085.6	7846.2	7564.4	7253.1	6917.9	6562.4
15°	8969.7	8943.9	8870.3	8754.2	8592.1	8385.9	8133.5	7846.2	7520.2	7166.6	6794.5
12.5°	9234.9	9209.2	9133.6	9017.6	8850.0	8643.7	8385.9	8085.6	7752.3	7385.7	6999.0
10°	9444.9	9419.1	9347.3	9236.8	9063.6	8850.0	8592.1	8304.8	7949.3	7571.8	7170.2
7.5°	9595.9	9572.0	9505.7	9395.2	9236.8	9017.6	8754.2	8446.6	8100.4	7717.3	7306.5
5°	9710.1	9682.5	9616.2	9505.7	9347.3	9133.6	8870.3	8562.7	8212.7	7824.1	7406.0
2.5°	9789.3	9756.2	9682.5	9572.0	9419.1	9209.2	8943.9	8634.5	8280.9	7890.4	7468.6
0°	9811.4	9789.3	9710.1	9595.9	9444.9	9234.9	8969.7	8658.4	8304.8	7912.5	7488.9

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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°	66.3	66.3	64.5	62.6	60.8	57.1	55.3	53.4	51.6	47.9	46.0
85°	140.0	136.3	132.6	128.9	123.4	119.7	114.2	110.5	105.0	99.5	93.9
82.5°	221.0	215.5	208.1	202.6	195.2	186.0	178.7	169.4	160.2	152.9	143.7
80°	309.4	300.2	291.0	281.8	270.7	259.7	248.6	237.6	224.7	211.8	198.9
77.5°	405.2	392.3	379.4	364.7	351.8	337.1	322.3	307.6	291.0	274.4	257.9
75°	512.0	495.5	477.0	458.6	442.0	421.8	401.5	381.3	359.2	338.9	316.8
72.5°	628.1	607.8	585.7	563.6	539.7	513.9	488.1	460.5	434.7	408.9	381.3
70°	753.3	729.4	701.7	674.1	644.6	613.3	582.0	548.9	515.7	482.6	449.4
67.5°	887.8	858.3	825.1	792.0	755.2	718.3	681.5	642.8	602.3	561.8	523.1
65°	1031.4	994.6	955.9	913.5	871.2	828.8	784.6	738.6	692.5	644.6	602.3
62.5°	1191.7	1145.6	1095.9	1044.3	996.4	944.9	897.0	839.9	784.6	731.2	677.8
60°	1377.7	1316.9	1256.1	1191.7	1130.9	1064.6	1005.6	943.0	880.4	819.6	757.0
57.5°	1585.8	1508.5	1434.8	1357.4	1276.4	1202.7	1127.2	1051.7	981.7	909.9	841.7
55°	1821.6	1727.6	1635.5	1539.8	1445.8	1353.7	1258.0	1173.2	1086.7	1005.6	926.4
52.5°	2079.4	1972.6	1858.4	1749.7	1630.0	1515.8	1409.0	1302.2	1200.9	1103.3	1013.0
50°	2355.7	2230.5	2099.7	1967.1	1830.8	1696.3	1567.4	1442.2	1324.3	1210.1	1103.3
47.5°	2643.0	2501.2	2352.0	2201.0	2055.5	1891.6	1736.8	1595.0	1453.2	1324.3	1200.9
45°	2937.7	2777.5	2613.6	2442.3	2271.0	2094.2	1922.9	1749.7	1595.0	1442.2	1302.2
42.5°	3241.6	3061.1	2878.8	2689.1	2499.4	2306.0	2112.6	1922.9	1736.8	1567.4	1409.0
40°	3554.7	3355.8	3147.7	2941.4	2738.8	2517.8	2306.0	2094.2	1891.6	1696.3	1515.8
37.5°	3867.8	3650.5	3425.8	3193.7	2961.7	2738.8	2499.4	2271.0	2055.5	1830.8	1630.0
35°	4182.8	3943.4	3700.2	3447.9	3193.7	2941.4	2689.1	2442.3	2201.0	1967.1	1749.7
32.5°	4499.6	4238.1	3969.1	3700.2	3425.8	3147.7	2878.8	2613.6	2352.0	2099.7	1858.4
30°	4810.9	4527.2	4238.1	3943.4	3650.5	3355.8	3061.1	2777.5	2501.2	2230.5	1972.6
27.5°	5114.8	4810.9	4499.6	4182.8	3867.8	3554.7	3241.6	2937.7	2643.0	2355.7	2079.4
25°	5407.6	5083.5	4750.1	4413.0	4077.8	3744.4	3414.8	3086.9	2777.5	2475.4	2186.3
22.5°	5683.9	5341.3	4989.5	4632.2	4273.0	3921.3	3575.0	3234.3	2904.6	2587.8	2283.9
20°	5949.1	5582.6	5225.3	4834.8	4459.1	4088.9	3726.0	3368.7	3020.6	2690.9	2372.3
17.5°	6190.4	5805.4	5415.0	5022.7	4628.5	4239.9	3860.5	3505.0	3127.4	2784.8	2457.0
15°	6407.7	6006.2	5597.3	5190.3	4779.6	4376.2	3982.0	3598.9	3225.0	2869.6	2530.7
12.5°	6597.4	6181.2	5757.6	5335.8	4914.0	4495.9	4088.9	3692.9	3309.8	2941.4	2593.3
10°	6754.0	6328.5	5892.0	5457.3	5024.5	4595.4	4175.4	3772.1	3379.8	3002.2	2644.9
7.5°	6881.1	6444.6	6000.7	5553.1	5111.1	4672.7	4245.4	3832.8	3435.0	3048.2	2685.4
5°	6971.3	6529.3	6078.0	5621.3	5173.7	4729.8	4295.1	3877.1	3473.7	3081.4	2714.9
2.5°	7028.4	6597.4	6140.7	5678.4	5225.3	4775.9	4335.7	3912.0	3505.0	3109.0	2738.8
0°	7046.8	6597.4	6140.7	5678.4	5225.3	4775.9	4335.7	3912.0	3505.0	3109.0	2738.8

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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°	44.2	40.5	36.8	35.0	31.3	29.5	25.8	22.1	20.3	16.6	12.9
85°	88.4	81.0	75.5	70.0	64.5	57.1	51.6	46.0	38.7	33.2	25.8
82.5°	134.5	125.2	116.0	106.8	97.6	88.4	77.4	68.1	58.9	49.7	38.7
80°	186.0	171.3	158.4	145.5	132.6	119.7	105.0	92.1	77.4	64.5	51.6
77.5°	239.4	222.9	204.4	186.0	167.6	151.0	132.6	116.0	99.5	81.0	64.5
75°	296.5	274.4	254.2	230.2	208.1	184.2	162.1	140.0	119.7	99.5	77.4
72.5°	355.5	327.8	300.2	274.4	246.8	219.2	193.4	165.8	140.0	116.0	92.1
70°	416.3	383.1	349.9	318.6	287.3	254.2	224.7	193.4	162.1	132.6	105.0
67.5°	480.7	442.0	403.4	362.8	327.8	291.0	254.2	219.2	184.2	151.0	119.7
65°	550.7	504.7	456.8	414.4	368.4	327.8	287.3	246.8	208.1	167.6	132.6
62.5°	622.5	569.1	515.7	462.3	414.4	362.8	318.6	274.4	230.2	186.0	145.5
60°	696.2	635.4	574.7	515.7	456.8	403.4	349.9	300.2	254.2	204.4	158.4
57.5°	771.7	703.6	635.4	569.1	504.7	442.0	383.1	327.8	274.4	222.9	171.3
55°	849.1	771.7	696.2	622.5	550.7	480.7	416.3	355.5	296.5	239.4	186.0
52.5°	926.4	841.7	757.0	677.8	602.3	523.1	449.4	381.3	316.8	257.9	198.9
50°	1005.6	909.9	819.6	731.2	644.6	561.8	482.6	408.9	338.9	274.4	211.8
47.5°	1086.7	981.7	880.4	784.6	692.5	602.3	515.7	434.7	359.2	291.0	224.7
45°	1173.2	1051.7	943.0	839.9	738.6	642.8	548.9	460.5	381.3	307.6	237.6
42.5°	1258.0	1127.2	1005.6	897.0	784.6	681.5	582.0	488.1	401.5	322.3	248.6
40°	1353.7	1202.7	1064.6	944.9	828.8	718.3	613.3	513.9	421.8	337.1	259.7
37.5°	1445.8	1276.4	1130.9	996.4	871.2	755.2	644.6	539.7	442.0	351.8	270.7
35°	1539.8	1357.4	1191.7	1044.3	913.5	792.0	674.1	563.6	458.6	364.7	281.8
32.5°	1635.5	1434.8	1256.1	1095.9	955.9	825.1	701.7	585.7	477.0	379.4	291.0
30°	1727.6	1508.5	1316.9	1145.6	994.6	858.3	729.4	607.8	495.5	392.3	300.2
27.5°	1821.6	1585.8	1377.7	1191.7	1031.4	887.8	753.3	628.1	512.0	405.2	309.4
25°	1911.8	1659.5	1434.8	1235.9	1064.6	917.2	779.1	648.3	526.8	416.3	316.8
22.5°	1994.7	1724.0	1486.4	1278.2	1099.6	943.0	801.2	666.7	541.5	427.3	324.2
20°	2070.2	1790.3	1539.8	1320.6	1132.7	968.8	819.6	683.3	554.4	436.5	331.5
17.5°	2143.9	1851.0	1587.7	1359.3	1160.4	990.9	838.0	696.2	565.4	443.9	337.1
15°	2206.5	1904.5	1630.0	1392.4	1186.1	1009.3	852.8	709.1	574.7	451.2	340.7
12.5°	2261.8	1950.5	1666.9	1420.1	1206.4	1025.9	867.5	720.2	583.9	456.8	346.3
10°	2306.0	1987.3	1696.3	1444.0	1224.8	1038.8	876.7	729.4	589.4	462.3	349.9
7.5°	2341.0	2016.8	1720.3	1460.6	1237.7	1049.8	885.9	734.9	594.9	466.0	355.5
5°	2366.8	2038.9	1736.8	1473.5	1248.8	1062.7	897.0	744.1	602.3	471.5	355.5
2.5°	2387.0	2055.5	1749.7	1484.5	1256.1	1062.7	897.0	744.1	602.3	471.5	355.5
0°	2387.0	2055.5	1749.7	1484.5	1256.1	1062.7	897.0	744.1	602.3	471.5	355.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.2	7.4	3.7	0.0
85°	20.3	12.9	7.4	0.0
82.5°	29.5	20.3	9.2	0.0
80°	38.7	25.8	12.9	0.0
77.5°	49.7	33.2	16.6	0.0
75°	58.9	38.7	20.3	0.0
72.5°	68.1	46.0	22.1	0.0
70°	77.4	51.6	25.8	0.0
67.5°	88.4	57.1	29.5	0.0
65°	97.6	64.5	31.3	0.0
62.5°	106.8	70.0	35.0	0.0
60°	116.0	75.5	36.8	0.0
57.5°	125.2	81.0	40.5	0.0
55°	134.5	88.4	44.2	0.0
52.5°	143.7	93.9	46.0	0.0
50°	152.9	99.5	47.9	0.0
47.5°	160.2	105.0	51.6	0.0
45°	169.4	110.5	53.4	0.0
42.5°	178.7	114.2	55.3	0.0
40°	186.0	119.7	57.1	0.0
37.5°	195.2	123.4	60.8	0.0
35°	202.6	128.9	62.6	0.0
32.5°	208.1	132.6	64.5	0.0
30°	215.5	136.3	66.3	0.0
27.5°	221.0	140.0	66.3	0.0
25°	226.5	143.7	68.1	0.0
22.5°	232.1	145.5	70.0	0.0
20°	237.6	149.2	71.8	0.0
17.5°	241.3	151.0	71.8	0.0
15°	245.0	152.9	75.5	0.0
12.5°	246.8	154.7	75.5	0.0
10°	250.5	158.4	75.5	0.0
7.5°	254.2	158.4	75.5	0.0
5°	254.2	158.4	75.5	0.0
2.5°	254.2	158.4	75.5	0.0
0°	254.2	158.4	75.5	0.0

(END OF REPORT)