

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: P628239

Luminaire Tested: **IFLD-S-SA2C-735-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628239
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

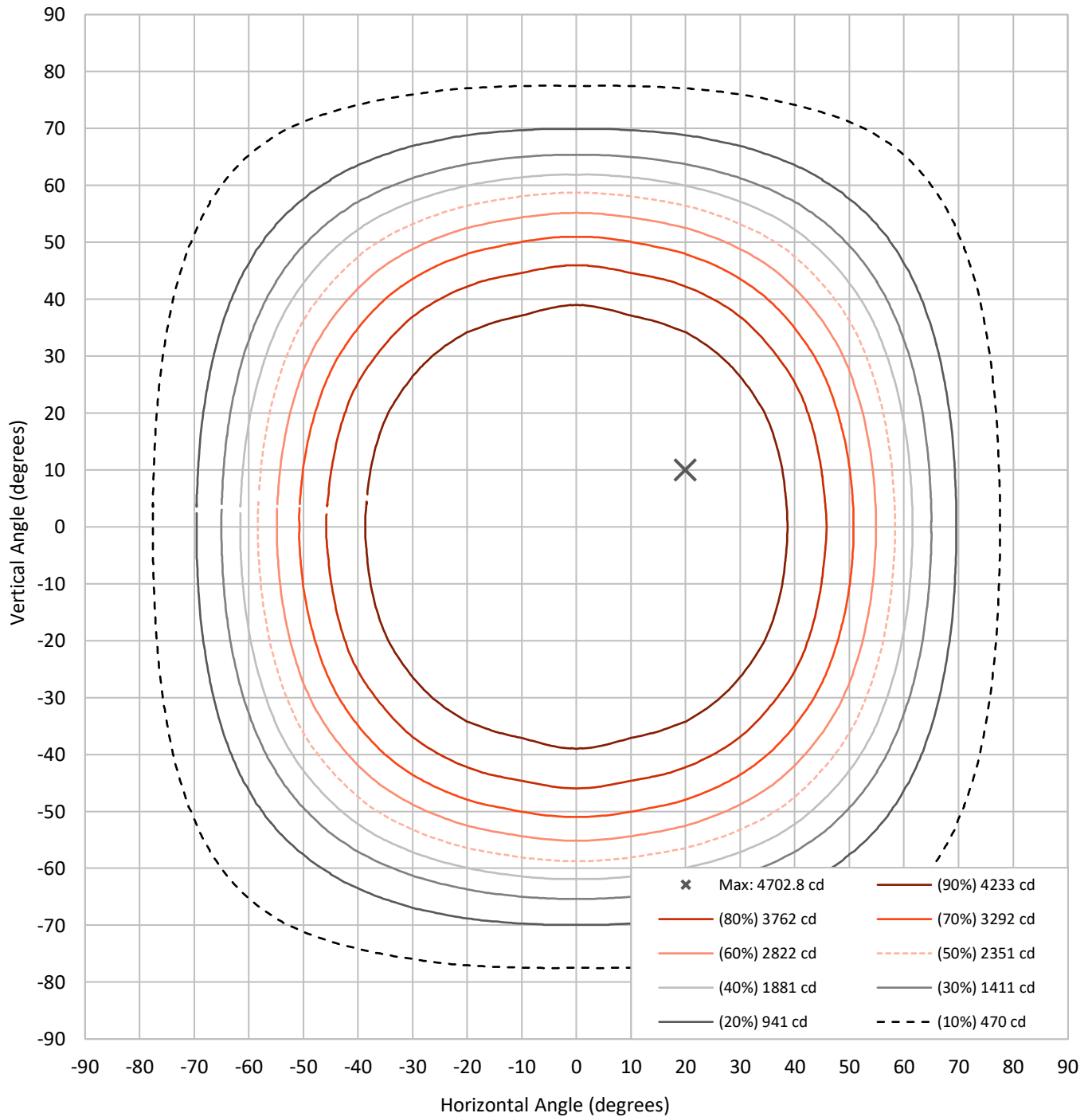
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14427.6 lumens	Max Intensity:	4702.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	133.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	8853.1 lumens	Field Lumens:	10613.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	108.2		
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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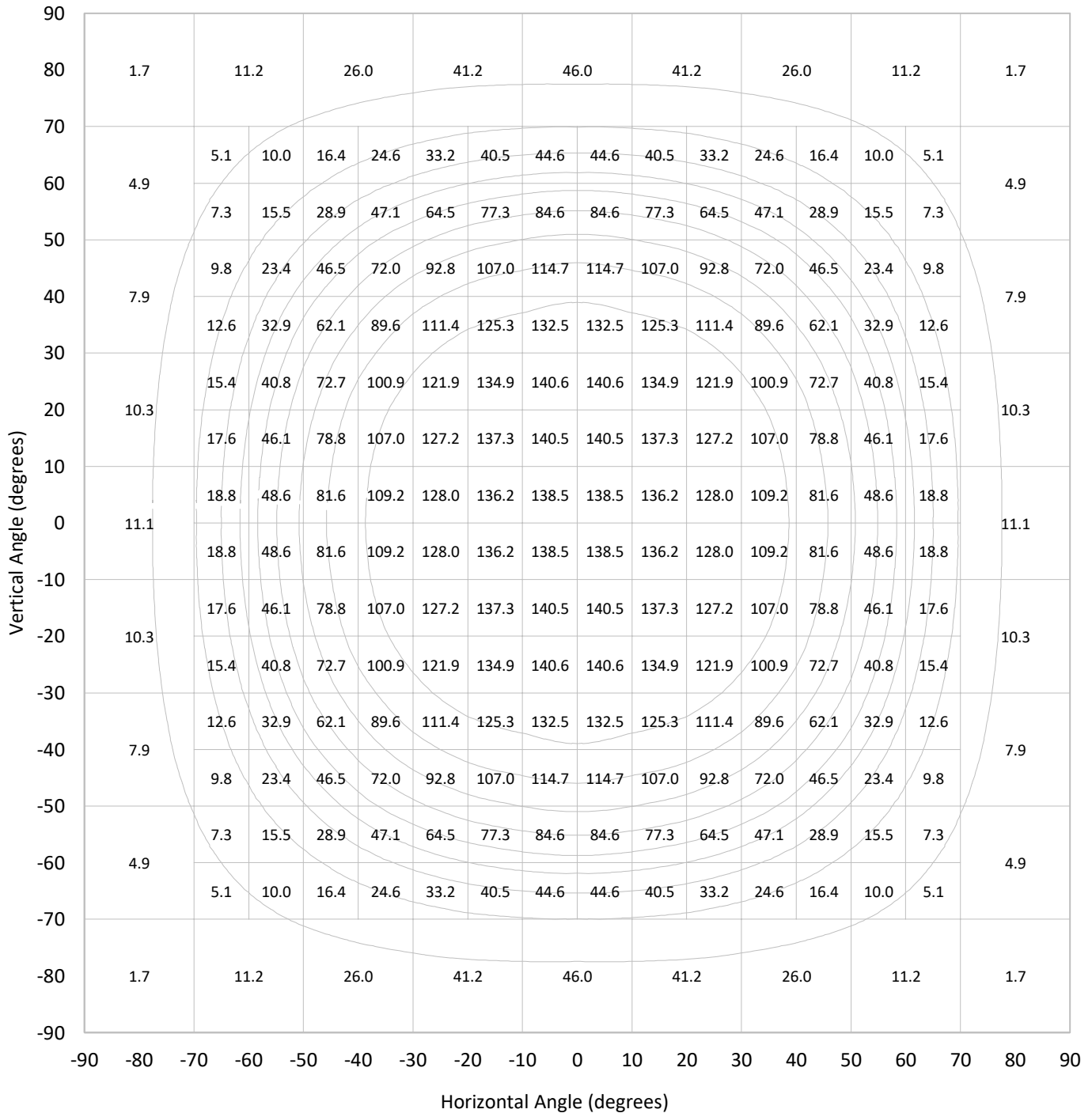
Iso-Candela Plot





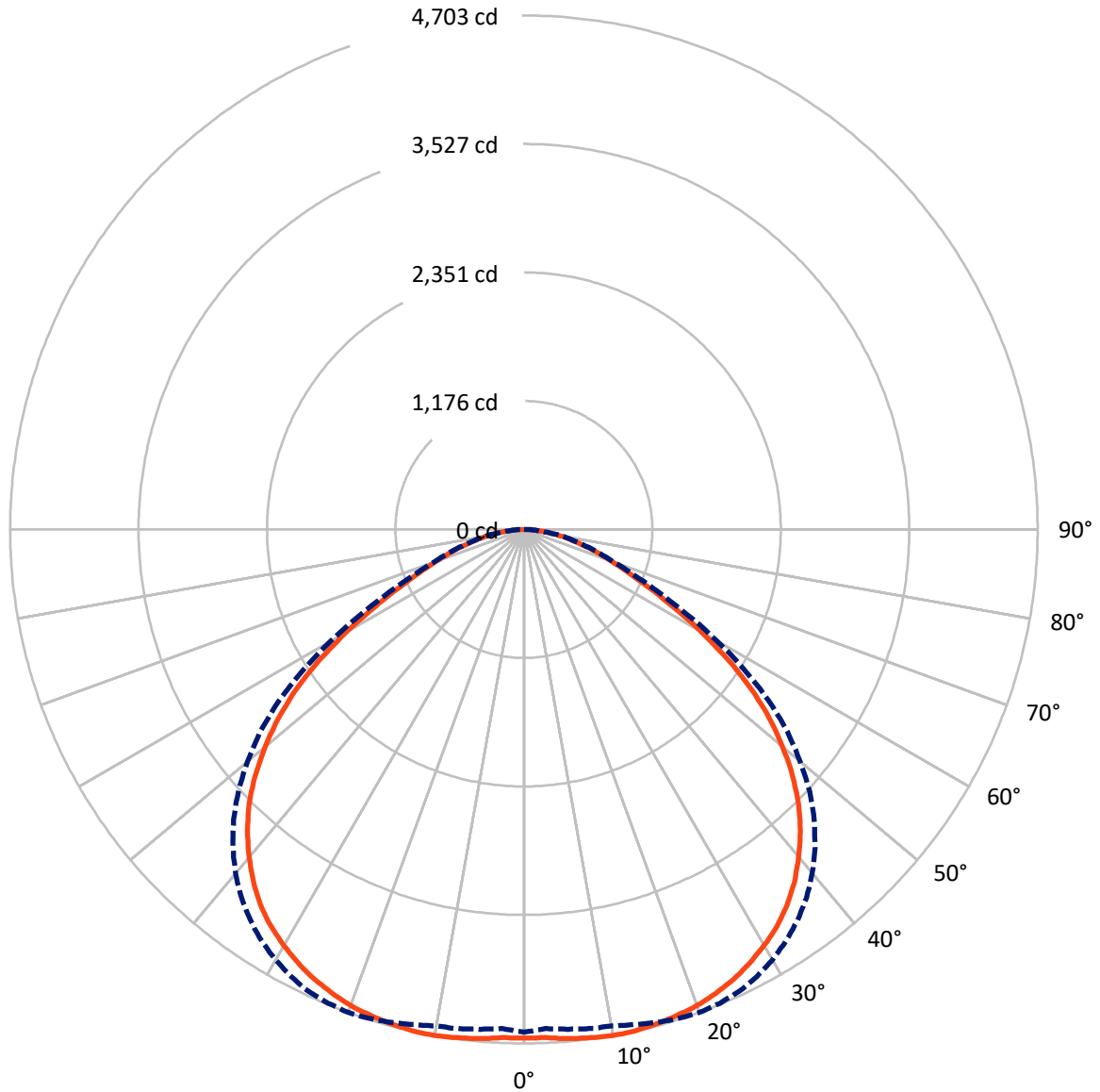
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Lumen Table



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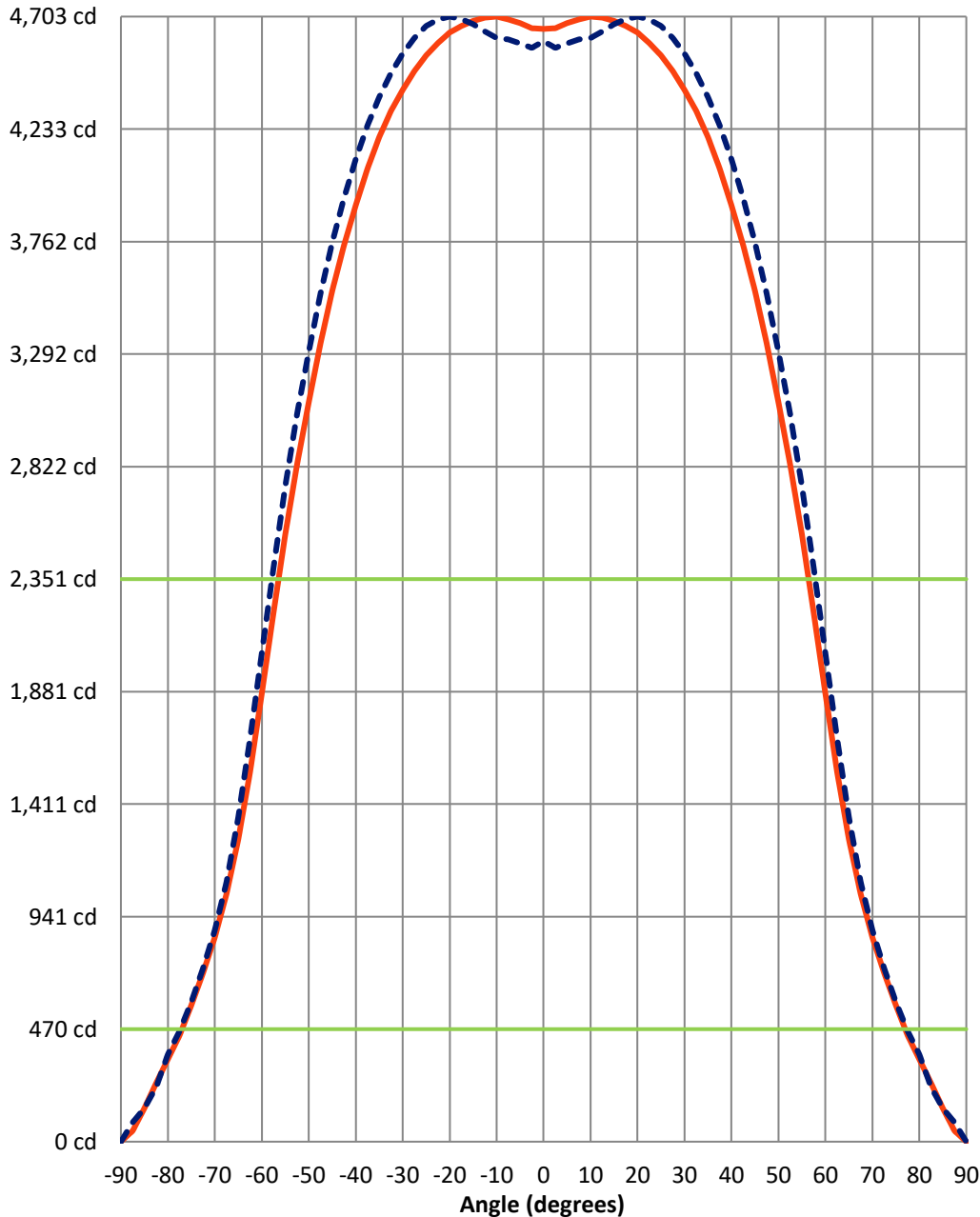
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 8853.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 10613.3
 Efficiency: 73.6%

Spill:
 Lumens: 3814.3
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-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°	38.0	41.0	42.5	44.0	45.5	47.1	48.6	47.1	45.5	45.5	44.0
85°	101.7	104.7	106.3	116.9	127.5	133.6	141.2	139.7	139.7	138.1	136.6
82.5°	203.4	212.5	220.1	230.7	236.8	245.9	252.0	247.4	244.4	238.3	233.8
80°	361.3	364.3	365.8	367.4	359.8	358.3	355.2	350.7	344.6	337.0	329.4
77.5°	460.0	463.0	466.0	463.0	461.5	460.0	455.4	450.9	444.8	438.7	429.6
75°	608.7	608.7	608.7	604.2	601.1	596.6	589.0	581.4	570.8	558.6	545.0
72.5°	766.6	765.1	763.6	754.5	746.9	737.8	727.1	718.0	705.9	692.2	674.0
70°	932.1	935.1	936.6	924.5	915.4	903.2	889.6	872.9	854.6	834.9	809.1
67.5°	1159.8	1156.7	1153.7	1137.0	1124.9	1108.2	1088.4	1064.1	1036.8	1006.4	970.0
65°	1442.1	1446.7	1437.6	1420.9	1398.1	1370.8	1340.4	1305.5	1264.5	1219.0	1167.4
62.5°	1783.7	1791.3	1780.6	1759.4	1730.5	1694.1	1651.6	1601.5	1545.3	1481.6	1417.8
60°	2172.3	2170.8	2151.0	2122.2	2084.2	2038.7	1991.6	1937.0	1873.2	1798.9	1721.4
57.5°	2529.0	2526.0	2501.7	2472.9	2434.9	2386.3	2336.2	2278.5	2211.8	2132.8	2043.3
55°	2849.3	2846.3	2822.0	2791.6	2752.2	2703.6	2658.1	2603.4	2538.1	2454.6	2359.0
52.5°	3133.2	3134.7	3113.5	3080.1	3037.6	2990.5	2946.5	2891.8	2829.6	2746.1	2653.5
50°	3394.3	3392.8	3370.0	3339.6	3300.2	3254.6	3210.6	3156.0	3090.7	3010.2	2920.7
47.5°	3637.2	3634.1	3608.3	3574.9	3533.9	3494.5	3453.5	3404.9	3336.6	3256.2	3166.6
45°	3840.6	3834.5	3808.7	3776.8	3737.4	3702.4	3666.0	3629.6	3556.7	3482.3	3397.3
42.5°	4015.2	4013.6	3987.8	3956.0	3916.5	3886.1	3852.7	3807.2	3746.5	3678.2	3594.7
40°	4182.1	4170.0	4144.2	4113.8	4077.4	4051.6	4018.2	3972.7	3913.5	3846.7	3766.2
37.5°	4306.6	4308.1	4280.8	4247.4	4215.5	4191.2	4160.9	4118.4	4066.8	4001.5	3921.0
35°	4425.0	4417.4	4394.7	4365.8	4337.0	4309.7	4277.8	4241.3	4198.8	4138.1	4062.2
32.5°	4502.4	4513.1	4485.7	4455.4	4438.7	4417.4	4384.0	4346.1	4308.1	4247.4	4179.1
30°	4587.5	4578.3	4557.1	4531.3	4519.1	4505.5	4476.6	4440.2	4396.2	4341.5	4277.8
27.5°	4646.7	4642.1	4616.3	4592.0	4585.9	4573.8	4551.0	4519.1	4475.1	4422.0	4362.8
25°	4672.5	4675.5	4651.2	4637.5	4637.5	4630.0	4611.7	4584.4	4540.4	4491.8	4434.1
22.5°	4684.6	4681.6	4664.9	4661.8	4669.4	4663.4	4655.8	4631.5	4592.0	4552.5	4504.0
20°	4692.2	4670.9	4655.8	4667.9	4677.0	4675.5	4669.4	4654.2	4636.0	4602.6	4560.1
17.5°	4675.5	4661.8	4643.6	4661.8	4681.6	4683.1	4677.0	4667.9	4663.4	4642.1	4604.2
15°	4634.5	4623.9	4626.9	4645.1	4667.9	4675.5	4680.1	4690.7	4684.6	4667.9	4634.5
12.5°	4607.2	4593.5	4607.2	4625.4	4637.5	4642.1	4678.5	4698.3	4698.3	4683.1	4661.8
10°	4599.6	4572.3	4590.5	4607.2	4613.3	4640.6	4670.9	4692.2	4702.8	4690.7	4663.4
7.5°	4584.4	4566.2	4573.8	4581.4	4616.3	4636.0	4652.7	4675.5	4690.7	4689.2	4664.9
5°	4576.8	4554.1	4557.1	4589.0	4613.3	4626.9	4633.0	4652.7	4675.5	4680.1	4661.8
2.5°	4557.1	4546.5	4569.2	4572.3	4590.5	4601.1	4607.2	4625.4	4654.2	4664.9	4657.3
0°	4546.5	4531.3	4516.1	4528.2	4558.6	4581.4	4590.5	4617.8	4651.2	4661.8	4645.1



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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°	42.5	41.0	39.5	38.0	39.5	39.5	39.5	38.0	39.5	38.0	38.0
85°	132.1	126.0	121.4	115.4	109.3	104.7	98.7	92.6	91.1	89.6	86.5
82.5°	227.7	220.1	212.5	203.4	194.3	183.7	173.1	160.9	157.9	154.8	150.3
80°	320.3	309.7	299.0	288.4	279.3	268.7	256.5	242.9	233.8	226.2	217.1
77.5°	417.5	402.3	387.1	368.9	358.3	347.6	335.5	321.8	308.2	296.0	282.4
75°	528.3	511.6	496.4	478.2	458.4	438.7	419.0	400.8	381.0	362.8	344.6
72.5°	651.2	626.9	602.7	579.9	555.6	531.3	505.5	481.2	456.9	432.6	406.8
70°	780.3	749.9	719.5	689.2	657.3	625.4	595.1	564.7	534.3	502.5	473.6
67.5°	932.1	897.1	857.7	815.2	768.1	727.1	687.7	651.2	614.8	578.4	541.9
65°	1121.8	1073.2	1020.1	962.4	907.8	853.1	795.4	740.8	698.3	655.8	614.8
62.5°	1355.6	1287.3	1212.9	1138.5	1071.7	1000.4	933.6	862.2	795.4	734.7	684.6
60°	1634.9	1542.3	1451.2	1355.6	1263.0	1165.8	1080.8	992.8	909.3	834.9	762.0
57.5°	1943.1	1835.3	1726.0	1609.1	1483.1	1369.3	1253.9	1138.5	1039.8	941.2	859.2
55°	2255.8	2141.9	2019.0	1886.9	1748.8	1603.0	1446.7	1317.6	1182.5	1067.2	960.9
52.5°	2553.3	2434.9	2307.4	2185.9	2020.5	1853.5	1682.0	1511.9	1354.1	1206.8	1077.8
50°	2819.0	2703.6	2580.6	2439.5	2286.1	2108.5	1917.3	1726.0	1539.3	1366.2	1205.3
47.5°	3061.8	2949.5	2826.6	2685.4	2545.7	2348.4	2155.6	1944.6	1736.6	1537.8	1349.5
45°	3289.5	3175.7	3048.2	2913.1	2752.2	2576.1	2377.2	2164.7	1941.5	1718.4	1501.3
42.5°	3496.0	3382.1	3253.1	3113.5	2954.1	2779.5	2586.7	2372.7	2148.0	1905.1	1666.8
40°	3676.6	3565.8	3441.3	3295.6	3146.9	2963.2	2773.4	2570.0	2337.7	2093.3	1830.7
37.5°	3834.5	3731.3	3608.3	3464.1	3306.2	3142.3	2946.5	2743.1	2533.6	2267.9	1999.2
35°	3974.2	3878.5	3752.5	3615.9	3461.1	3288.0	3104.3	2905.5	2679.3	2430.3	2169.2
32.5°	4095.6	3998.5	3883.1	3746.5	3596.2	3433.8	3245.5	3045.1	2831.1	2577.6	2293.7
30°	4198.8	4104.7	3995.4	3866.4	3722.2	3561.3	3377.6	3175.7	2957.1	2705.1	2424.3
27.5°	4288.4	4198.8	4092.6	3972.7	3834.5	3679.7	3494.5	3291.1	3067.9	2825.0	2544.2
25°	4365.8	4279.3	4180.6	4066.8	3930.2	3778.3	3603.8	3391.3	3168.1	2923.7	2645.9
22.5°	4435.7	4352.2	4253.5	4142.7	4018.2	3866.4	3690.3	3479.3	3253.1	3011.7	2738.5
20°	4497.9	4420.5	4323.3	4209.5	4085.0	3931.7	3757.1	3556.7	3329.0	3092.2	2822.0
17.5°	4548.0	4479.7	4382.5	4262.6	4138.1	3989.4	3819.3	3635.7	3394.3	3160.5	2891.8
15°	4582.9	4516.1	4428.1	4306.6	4185.2	4037.9	3867.9	3678.2	3453.5	3215.2	2949.5
12.5°	4607.2	4535.8	4453.9	4341.5	4220.1	4074.4	3908.9	3722.2	3503.6	3263.7	2999.6
10°	4613.3	4548.0	4466.0	4365.8	4247.4	4106.2	3943.8	3758.6	3544.6	3301.7	3040.6
7.5°	4616.3	4554.1	4479.7	4384.0	4267.2	4130.5	3969.6	3787.5	3574.9	3333.6	3071.0
5°	4614.8	4555.6	4488.8	4396.2	4279.3	4144.2	3986.3	3807.2	3596.2	3354.8	3093.7
2.5°	4610.2	4557.1	4494.9	4405.3	4293.0	4159.4	4003.0	3830.0	3619.0	3373.0	3111.9
0°	4622.4	4576.8	4497.9	4402.3	4296.0	4159.4	4001.5	3833.0	3622.0	3371.5	3110.4



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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°	38.0	36.4	36.4	34.9	33.4	31.9	28.8	27.3	24.3	19.7	15.2
85°	82.0	77.4	72.9	69.8	66.8	63.8	59.2	54.6	48.6	39.5	30.4
82.5°	144.2	135.1	126.0	115.4	106.3	97.2	89.6	82.0	72.9	59.2	45.5
80°	206.5	192.8	179.1	163.9	150.3	135.1	121.4	109.3	97.2	78.9	60.7
77.5°	268.7	250.5	230.7	212.5	192.8	173.1	153.3	136.6	118.4	97.2	75.9
75°	326.4	305.1	286.9	261.1	236.8	211.0	185.2	162.4	139.7	113.9	91.1
72.5°	384.1	356.7	330.9	306.6	279.3	247.4	218.6	189.8	160.9	130.5	103.2
70°	441.7	408.3	376.5	347.6	317.3	285.4	250.5	217.1	182.2	145.7	113.9
67.5°	500.9	463.0	426.6	390.1	355.2	318.8	282.4	244.4	203.4	160.9	126.0
65°	566.2	519.2	475.1	434.2	393.2	353.7	312.7	271.7	226.2	177.6	136.6
62.5°	631.5	579.9	528.3	476.7	431.1	387.1	343.1	297.5	247.4	195.8	147.2
60°	701.3	642.1	582.9	525.2	469.1	420.5	371.9	323.3	270.2	212.5	157.9
57.5°	778.7	707.4	640.6	575.3	511.6	453.9	400.8	349.1	289.9	229.2	170.0
55°	866.8	778.7	699.8	626.9	557.1	487.3	429.6	376.5	312.7	245.9	183.7
52.5°	959.4	857.7	762.0	680.1	605.7	526.8	456.9	397.7	335.5	262.6	195.8
50°	1067.2	938.1	831.9	731.7	648.2	566.2	485.8	422.0	358.3	282.4	208.0
47.5°	1178.0	1035.3	901.7	792.4	693.7	604.2	519.2	443.3	379.5	300.6	220.1
45°	1307.0	1127.9	980.6	851.6	737.8	643.6	552.6	466.0	397.7	318.8	232.3
42.5°	1431.5	1237.2	1062.6	916.9	787.9	681.6	582.9	490.3	415.9	337.0	242.9
40°	1578.7	1346.5	1141.6	979.1	837.9	718.0	613.3	516.1	432.6	353.7	253.5
37.5°	1719.9	1457.3	1237.2	1047.4	886.5	754.5	643.6	540.4	447.8	370.4	267.2
35°	1859.6	1580.3	1328.3	1111.2	936.6	795.4	674.0	563.2	463.0	384.1	279.3
32.5°	1993.2	1695.6	1420.9	1182.5	991.3	833.4	701.3	584.4	478.2	396.2	291.5
30°	2117.6	1804.9	1511.9	1255.4	1041.4	868.3	727.1	605.7	496.4	406.8	303.6
27.5°	2231.5	1911.2	1603.0	1323.7	1088.4	900.2	754.5	625.4	511.6	417.5	314.2
25°	2334.7	2006.8	1686.5	1386.0	1130.9	935.1	780.3	645.2	525.2	426.6	323.3
22.5°	2431.9	2094.9	1762.4	1448.2	1182.5	970.0	804.5	663.4	538.9	435.7	332.4
20°	2516.9	2175.3	1835.3	1510.4	1228.1	1001.9	825.8	680.1	551.0	441.7	341.6
17.5°	2585.2	2246.7	1900.6	1565.1	1267.5	1029.2	844.0	695.3	561.7	449.3	347.6
15°	2645.9	2307.4	1955.2	1612.1	1302.5	1052.0	860.7	707.4	570.8	453.9	355.2
12.5°	2697.5	2359.0	2002.3	1653.1	1332.8	1071.7	874.4	716.5	578.4	458.4	359.8
10°	2740.0	2400.0	2041.7	1685.0	1357.1	1086.9	885.0	725.6	584.4	463.0	364.3
7.5°	2771.9	2430.3	2070.6	1712.3	1376.8	1097.5	894.1	731.7	590.5	466.0	371.9
5°	2796.2	2456.2	2093.3	1730.5	1392.0	1112.7	904.7	739.3	596.6	469.1	371.9
2.5°	2814.4	2477.4	2111.6	1745.7	1404.2	1109.7	904.7	737.8	596.6	469.1	370.4
0°	2811.4	2478.9	2110.0	1745.7	1404.2	1106.6	904.7	736.2	596.6	469.1	370.4



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.6	7.6	3.0	0.0
85°	22.8	15.2	7.6	0.0
82.5°	33.4	21.3	10.6	0.0
80°	44.0	28.8	13.7	0.0
77.5°	56.2	36.4	18.2	0.0
75°	66.8	42.5	21.3	0.0
72.5°	77.4	50.1	24.3	0.0
70°	86.5	56.2	27.3	0.0
67.5°	95.6	63.8	31.9	0.0
65°	103.2	69.8	34.9	0.0
62.5°	109.3	77.4	38.0	0.0
60°	116.9	83.5	41.0	0.0
57.5°	123.0	88.0	44.0	0.0
55°	129.0	91.1	47.1	0.0
52.5°	135.1	95.6	50.1	0.0
50°	141.2	100.2	53.1	0.0
47.5°	147.2	103.2	54.6	0.0
45°	156.4	107.8	57.7	0.0
42.5°	163.9	110.8	60.7	0.0
40°	171.5	113.9	62.2	0.0
37.5°	179.1	116.9	65.3	0.0
35°	186.7	119.9	66.8	0.0
32.5°	192.8	123.0	68.3	0.0
30°	198.9	126.0	69.8	0.0
27.5°	204.9	127.5	71.3	0.0
25°	209.5	130.5	72.9	0.0
22.5°	214.0	132.1	74.4	0.0
20°	217.1	133.6	75.9	0.0
17.5°	221.6	135.1	77.4	0.0
15°	223.1	136.6	80.5	0.0
12.5°	226.2	138.1	80.5	0.0
10°	227.7	139.7	80.5	0.0
7.5°	230.7	139.7	80.5	0.0
5°	229.2	139.7	80.5	0.0
2.5°	229.2	139.7	80.5	0.0
0°	227.7	139.7	80.5	0.0

(END OF REPORT)