

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: P628488

Luminaire Tested: **IFLD-M-SA4E-935-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628488  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-935-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

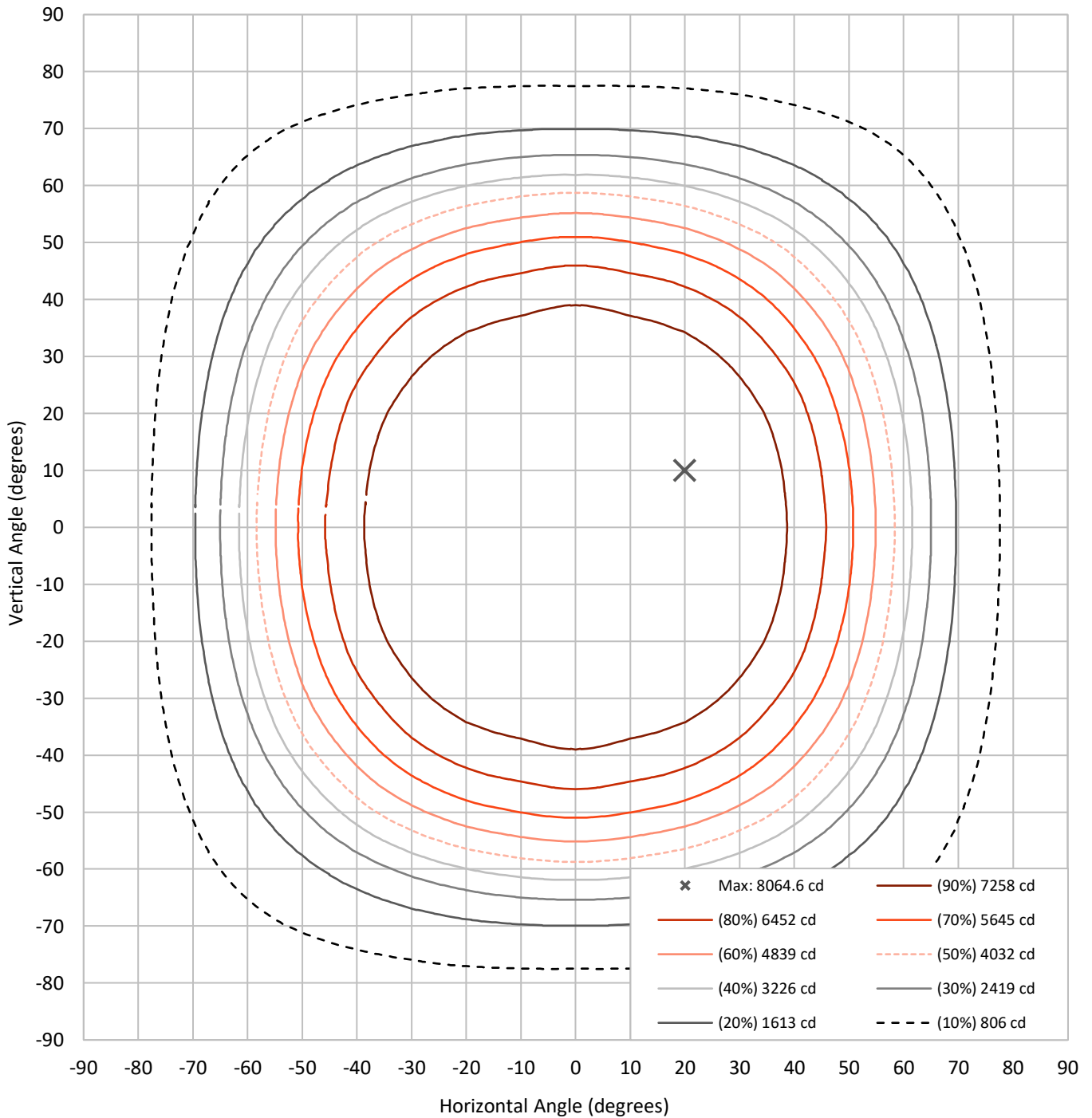
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	24741.1 lumens	Max Intensity:	8064.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	78.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	15181.7 lumens	Field Lumens:	18200.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 314.8  
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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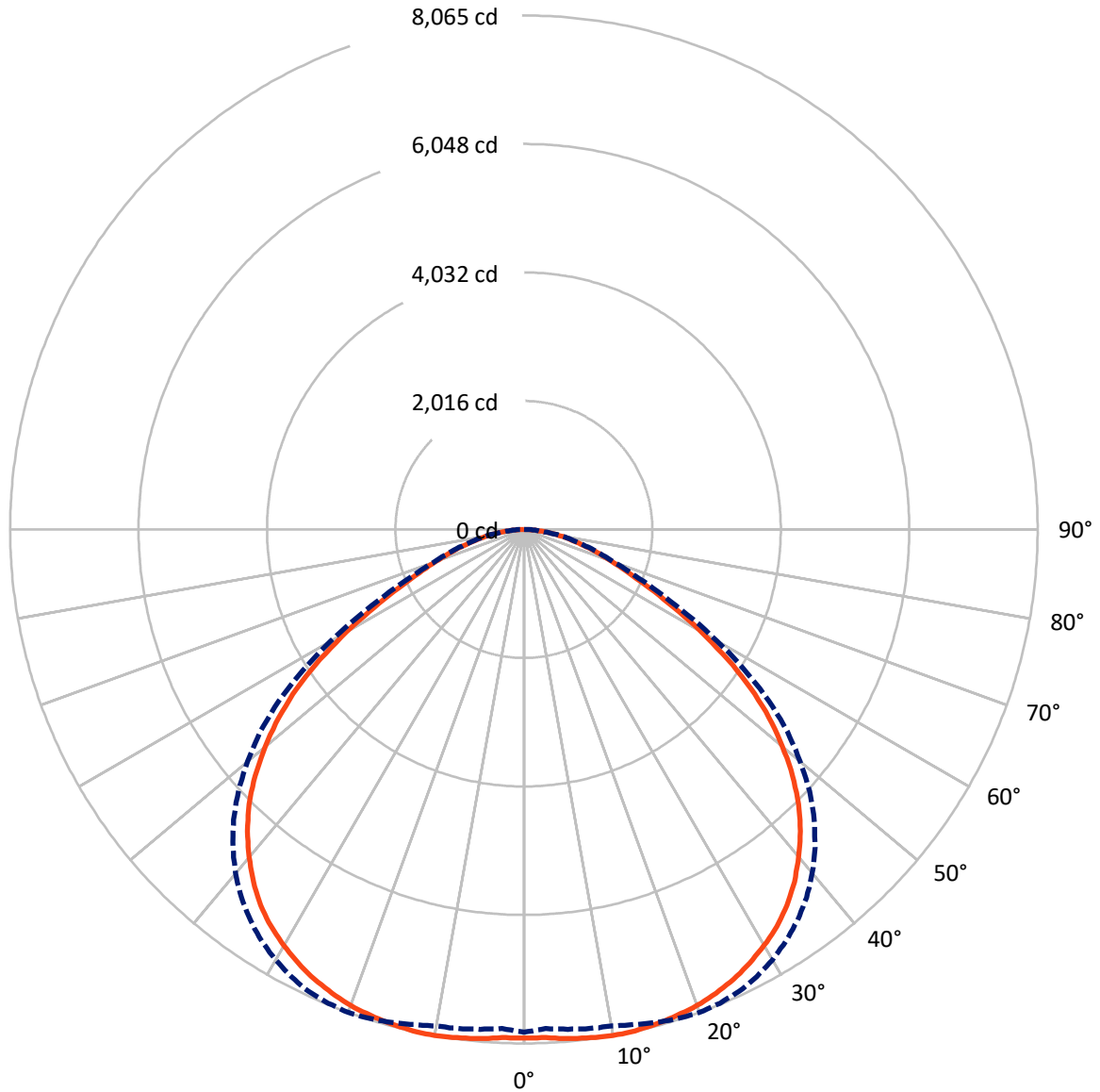
### Iso-Candela Plot





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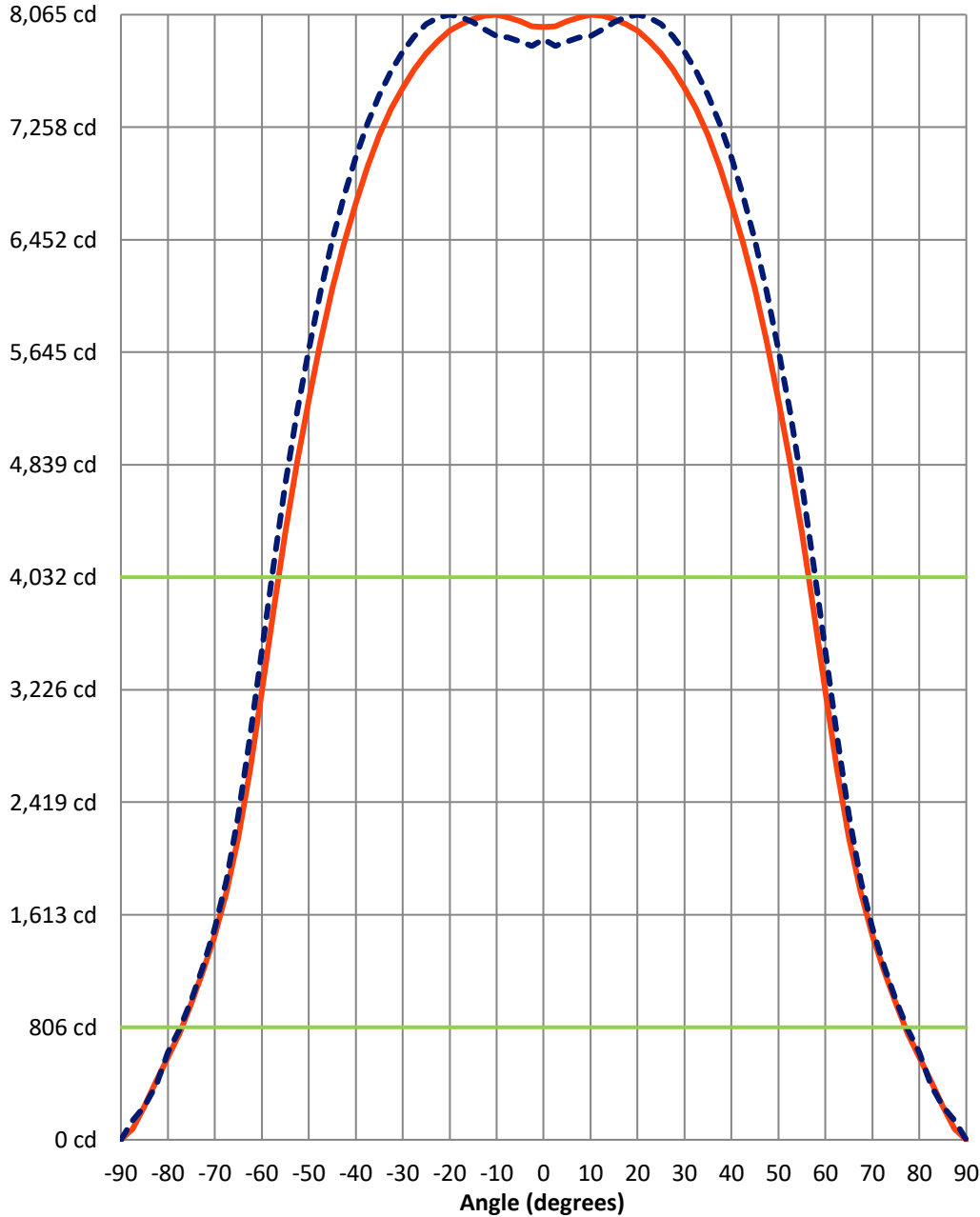
### Luminous Intensity Polar Plot



— 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: 15181.7  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 18200.2  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 6540.9  
 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°	65.1	70.3	72.9	75.5	78.1	80.7	83.3	80.7	78.1	78.1	75.5
85°	174.4	179.6	182.2	200.4	218.7	229.1	242.1	239.5	239.5	236.9	234.3
82.5°	348.8	364.4	377.5	395.7	406.1	421.7	432.1	424.3	419.1	408.7	400.9
80°	619.6	624.8	627.4	630.0	617.0	614.3	609.1	601.3	590.9	577.9	564.9
77.5°	788.8	794.0	799.2	794.0	791.4	788.8	780.9	773.1	762.7	752.3	736.7
75°	1043.9	1043.9	1043.9	1036.1	1030.9	1023.0	1010.0	997.0	978.8	958.0	934.5
72.5°	1314.6	1312.0	1309.4	1293.8	1280.8	1265.1	1246.9	1231.3	1210.5	1187.0	1155.8
70°	1598.3	1603.6	1606.2	1585.3	1569.7	1548.9	1525.5	1496.8	1465.6	1431.7	1387.5
67.5°	1988.8	1983.6	1978.4	1949.8	1928.9	1900.3	1866.5	1824.8	1778.0	1725.9	1663.4
65°	2473.0	2480.8	2465.2	2436.6	2397.5	2350.7	2298.6	2238.7	2168.4	2090.3	2001.8
62.5°	3058.7	3071.7	3053.5	3017.1	2967.6	2905.1	2832.2	2746.3	2650.0	2540.7	2431.4
60°	3725.1	3722.5	3688.7	3639.2	3574.1	3496.1	3415.4	3321.6	3212.3	3084.8	2952.0
57.5°	4336.9	4331.7	4290.0	4240.6	4175.5	4092.2	4006.3	3907.4	3792.8	3657.4	3503.9
55°	4886.1	4880.9	4839.3	4787.2	4719.5	4636.2	4558.1	4464.4	4352.5	4209.3	4045.3
52.5°	5372.9	5375.5	5339.1	5281.8	5208.9	5128.2	5052.7	4959.0	4852.3	4709.1	4550.3
50°	5820.7	5818.1	5779.0	5727.0	5659.3	5581.2	5505.7	5412.0	5300.0	5162.1	5008.5
47.5°	6237.2	6232.0	6187.7	6130.5	6060.2	5992.5	5922.2	5838.9	5721.8	5583.8	5430.2
45°	6586.0	6575.6	6531.3	6476.7	6409.0	6349.1	6286.6	6224.2	6099.2	5971.7	5825.9
42.5°	6885.4	6882.8	6838.5	6783.8	6716.2	6664.1	6606.8	6528.7	6424.6	6307.5	6164.3
40°	7171.7	7150.9	7106.6	7054.6	6992.1	6947.8	6890.6	6812.5	6711.0	6596.4	6458.5
37.5°	7385.2	7387.8	7340.9	7283.7	7229.0	7187.3	7135.3	7062.4	6973.9	6861.9	6724.0
35°	7588.2	7575.2	7536.2	7486.7	7437.2	7390.4	7335.7	7273.2	7200.4	7096.2	6966.1
32.5°	7721.0	7739.2	7692.4	7640.3	7611.7	7575.2	7517.9	7452.9	7387.8	7283.7	7166.5
30°	7866.8	7851.1	7814.7	7770.4	7749.6	7726.2	7676.7	7614.3	7538.8	7445.1	7335.7
27.5°	7968.3	7960.5	7916.2	7874.6	7864.2	7843.3	7804.3	7749.6	7674.1	7583.0	7481.5
25°	8012.5	8017.8	7976.1	7952.7	7952.7	7939.7	7908.4	7861.6	7786.1	7702.8	7603.8
22.5°	8033.4	8028.2	7999.5	7994.3	8007.3	7996.9	7983.9	7942.3	7874.6	7806.9	7723.6
20°	8046.4	8009.9	7983.9	8004.7	8020.4	8017.8	8007.3	7981.3	7950.1	7892.8	7819.9
17.5°	8017.8	7994.3	7963.1	7994.3	8028.2	8030.8	8020.4	8004.7	7996.9	7960.5	7895.4
15°	7947.5	7929.2	7934.4	7965.7	8004.7	8017.8	8025.6	8043.8	8033.4	8004.7	7947.5
12.5°	7900.6	7877.2	7900.6	7931.8	7952.7	7960.5	8023.0	8056.8	8056.8	8030.8	7994.3
10°	7887.6	7840.7	7872.0	7900.6	7911.0	7957.9	8009.9	8046.4	8064.6	8043.8	7996.9
7.5°	7861.6	7830.3	7843.3	7856.4	7916.2	7950.1	7978.7	8017.8	8043.8	8041.2	7999.5
5°	7848.5	7809.5	7814.7	7869.4	7911.0	7934.4	7944.9	7978.7	8017.8	8025.6	7994.3
2.5°	7814.7	7796.5	7835.5	7840.7	7872.0	7890.2	7900.6	7931.8	7981.3	7999.5	7986.5
0°	7796.5	7770.4	7744.4	7765.2	7817.3	7856.4	7872.0	7918.8	7976.1	7994.3	7965.7



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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°	72.9	70.3	67.7	65.1	67.7	67.7	67.7	65.1	67.7	65.1	65.1
85°	226.5	216.1	208.3	197.8	187.4	179.6	169.2	158.8	156.2	153.6	148.4
82.5°	390.5	377.5	364.4	348.8	333.2	315.0	296.8	275.9	270.7	265.5	257.7
80°	549.3	531.0	512.8	494.6	479.0	460.8	439.9	416.5	400.9	387.9	372.3
77.5°	715.9	689.8	663.8	632.6	614.3	596.1	575.3	551.9	528.4	507.6	484.2
75°	905.9	877.3	851.2	820.0	786.2	752.3	718.5	687.2	653.4	622.2	590.9
72.5°	1116.8	1075.1	1033.5	994.4	952.8	911.1	866.9	825.2	783.6	741.9	697.6
70°	1338.0	1286.0	1233.9	1181.8	1127.2	1072.5	1020.4	968.4	916.3	861.6	812.2
67.5°	1598.3	1538.5	1470.8	1397.9	1317.2	1246.9	1179.2	1116.8	1054.3	991.8	929.3
65°	1923.7	1840.4	1749.3	1650.4	1556.7	1463.0	1364.1	1270.3	1197.5	1124.6	1054.3
62.5°	2324.6	2207.5	2079.9	1952.4	1837.8	1715.5	1600.9	1478.6	1364.1	1259.9	1174.0
60°	2803.6	2644.8	2488.6	2324.6	2165.8	1999.2	1853.5	1702.5	1559.3	1431.7	1306.8
57.5°	3332.1	3147.2	2959.8	2759.4	2543.3	2348.1	2150.2	1952.4	1783.2	1614.0	1473.4
55°	3868.3	3673.1	3462.2	3235.7	2998.8	2748.9	2480.8	2259.5	2027.9	1830.0	1647.8
52.5°	4378.5	4175.5	3956.8	3748.6	3464.8	3178.5	2884.3	2592.8	2322.0	2069.5	1848.2
50°	4834.1	4636.2	4425.4	4183.3	3920.4	3615.8	3287.8	2959.8	2639.6	2342.8	2066.9
47.5°	5250.6	5058.0	4847.1	4605.0	4365.5	4027.1	3696.5	3334.7	2978.0	2637.0	2314.2
45°	5641.1	5445.8	5227.2	4995.5	4719.5	4417.6	4076.6	3712.1	3329.4	2946.8	2574.5
42.5°	5995.1	5799.9	5578.6	5339.1	5065.8	4766.4	4435.8	4068.7	3683.5	3267.0	2858.3
40°	6304.9	6114.8	5901.4	5651.5	5396.4	5081.4	4756.0	4407.2	4008.9	3589.8	3139.4
37.5°	6575.6	6398.6	6187.7	5940.4	5669.7	5388.6	5052.7	4703.9	4344.7	3889.1	3428.4
35°	6815.1	6651.1	6435.0	6200.7	5935.2	5638.5	5323.5	4982.5	4594.6	4167.7	3719.9
32.5°	7023.3	6856.7	6658.9	6424.6	6166.9	5888.4	5565.6	5222.0	4854.9	4420.2	3933.4
30°	7200.4	7039.0	6851.5	6630.3	6383.0	6107.0	5792.0	5445.8	5071.0	4638.8	4157.3
27.5°	7353.9	7200.4	7018.1	6812.5	6575.6	6310.1	5992.5	5643.7	5261.0	4844.5	4362.9
25°	7486.7	7338.3	7169.1	6973.9	6739.6	6479.3	6179.9	5815.5	5432.8	5013.7	4537.3
22.5°	7606.4	7463.3	7294.1	7104.0	6890.6	6630.3	6328.3	5966.5	5578.6	5164.7	4696.1
20°	7713.2	7580.4	7413.8	7218.6	7005.1	6742.2	6442.8	6099.2	5708.7	5302.6	4839.3
17.5°	7799.1	7681.9	7515.3	7309.7	7096.2	6841.1	6549.6	6234.6	5820.7	5419.8	4959.0
15°	7859.0	7744.4	7593.4	7385.2	7176.9	6924.4	6632.9	6307.5	5922.2	5513.5	5058.0
12.5°	7900.6	7778.3	7637.7	7445.1	7236.8	6986.9	6703.2	6383.0	6008.1	5596.8	5143.9
10°	7911.0	7799.1	7658.5	7486.7	7283.7	7041.6	6763.0	6445.4	6078.4	5661.9	5214.1
7.5°	7916.2	7809.5	7681.9	7517.9	7317.5	7083.2	6807.3	6494.9	6130.5	5716.6	5266.2
5°	7913.6	7812.1	7697.6	7538.8	7338.3	7106.6	6835.9	6528.7	6166.9	5753.0	5305.3
2.5°	7905.8	7814.7	7708.0	7554.4	7361.8	7132.7	6864.5	6567.8	6205.9	5784.2	5336.5
0°	7926.6	7848.5	7713.2	7549.2	7367.0	7132.7	6861.9	6573.0	6211.2	5781.6	5333.9





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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°	65.1	62.5	62.5	59.9	57.3	54.7	49.5	46.9	41.7	33.8	26.0
85°	140.6	132.8	125.0	119.7	114.5	109.3	101.5	93.7	83.3	67.7	52.1
82.5°	247.3	231.7	216.1	197.8	182.2	166.6	153.6	140.6	125.0	101.5	78.1
80°	354.0	330.6	307.2	281.1	257.7	231.7	208.3	187.4	166.6	135.4	104.1
77.5°	460.8	429.5	395.7	364.4	330.6	296.8	262.9	234.3	203.0	166.6	130.2
75°	559.7	523.2	492.0	447.7	406.1	361.8	317.6	278.5	239.5	195.2	156.2
72.5°	658.6	611.7	567.5	525.8	479.0	424.3	374.9	325.4	275.9	223.9	177.0
70°	757.5	700.3	645.6	596.1	544.1	489.4	429.5	372.3	312.4	249.9	195.2
67.5°	859.0	794.0	731.5	669.0	609.1	546.7	484.2	419.1	348.8	275.9	216.1
65°	971.0	890.3	814.8	744.5	674.2	606.5	536.3	466.0	387.9	304.6	234.3
62.5°	1082.9	994.4	905.9	817.4	739.3	663.8	588.3	510.2	424.3	335.8	252.5
60°	1202.7	1101.1	999.6	900.7	804.4	721.1	637.8	554.5	463.4	364.4	270.7
57.5°	1335.4	1213.1	1098.5	986.6	877.3	778.3	687.2	598.7	497.2	393.1	291.6
55°	1486.4	1335.4	1200.1	1075.1	955.4	835.6	736.7	645.6	536.3	421.7	315.0
52.5°	1645.2	1470.8	1306.8	1166.2	1038.7	903.3	783.6	682.0	575.3	450.3	335.8
50°	1830.0	1608.8	1426.5	1254.7	1111.6	971.0	833.0	723.7	614.3	484.2	356.6
47.5°	2020.1	1775.4	1546.3	1358.9	1189.6	1036.1	890.3	760.1	650.8	515.4	377.5
45°	2241.3	1934.2	1681.6	1460.4	1265.1	1103.7	947.6	799.2	682.0	546.7	398.3
42.5°	2454.8	2121.6	1822.2	1572.3	1351.0	1168.8	999.6	840.8	713.3	577.9	416.5
40°	2707.3	2309.0	1957.6	1679.0	1436.9	1231.3	1051.7	885.1	741.9	606.5	434.7
37.5°	2949.4	2499.0	2121.6	1796.2	1520.2	1293.8	1103.7	926.7	767.9	635.2	458.2
35°	3188.9	2709.9	2277.8	1905.5	1606.2	1364.1	1155.8	965.8	794.0	658.6	479.0
32.5°	3418.0	2907.7	2436.6	2027.9	1699.9	1429.1	1202.7	1002.2	820.0	679.4	499.8
30°	3631.4	3095.2	2592.8	2152.8	1785.8	1489.0	1246.9	1038.7	851.2	697.6	520.6
27.5°	3826.7	3277.4	2748.9	2270.0	1866.5	1543.7	1293.8	1072.5	877.3	715.9	538.9
25°	4003.7	3441.4	2892.1	2376.7	1939.4	1603.6	1338.0	1106.3	900.7	731.5	554.5
22.5°	4170.3	3592.4	3022.3	2483.4	2027.9	1663.4	1379.7	1137.6	924.1	747.1	570.1
20°	4316.0	3730.3	3147.2	2590.1	2106.0	1718.1	1416.1	1166.2	944.9	757.5	585.7
17.5°	4433.2	3852.7	3259.2	2683.9	2173.6	1764.9	1447.4	1192.2	963.2	770.5	596.1
15°	4537.3	3956.8	3352.9	2764.6	2233.5	1804.0	1476.0	1213.1	978.8	778.3	609.1
12.5°	4625.8	4045.3	3433.6	2834.8	2285.6	1837.8	1499.4	1228.7	991.8	786.2	617.0
10°	4698.7	4115.6	3501.3	2889.5	2327.2	1863.9	1517.6	1244.3	1002.2	794.0	624.8
7.5°	4753.4	4167.7	3550.7	2936.4	2361.1	1882.1	1533.3	1254.7	1012.6	799.2	637.8
5°	4795.0	4211.9	3589.8	2967.6	2387.1	1908.1	1551.5	1267.7	1023.0	804.4	637.8
2.5°	4826.3	4248.4	3621.0	2993.6	2407.9	1902.9	1551.5	1265.1	1023.0	804.4	635.2
0°	4821.1	4251.0	3618.4	2993.6	2407.9	1897.7	1551.5	1262.5	1023.0	804.4	635.2



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.2	13.0	5.2	0.0
85°	39.0	26.0	13.0	0.0
82.5°	57.3	36.4	18.2	0.0
80°	75.5	49.5	23.4	0.0
77.5°	96.3	62.5	31.2	0.0
75°	114.5	72.9	36.4	0.0
72.5°	132.8	85.9	41.7	0.0
70°	148.4	96.3	46.9	0.0
67.5°	164.0	109.3	54.7	0.0
65°	177.0	119.7	59.9	0.0
62.5°	187.4	132.8	65.1	0.0
60°	200.4	143.2	70.3	0.0
57.5°	210.9	151.0	75.5	0.0
55°	221.3	156.2	80.7	0.0
52.5°	231.7	164.0	85.9	0.0
50°	242.1	171.8	91.1	0.0
47.5°	252.5	177.0	93.7	0.0
45°	268.1	184.8	98.9	0.0
42.5°	281.1	190.0	104.1	0.0
40°	294.2	195.2	106.7	0.0
37.5°	307.2	200.4	111.9	0.0
35°	320.2	205.7	114.5	0.0
32.5°	330.6	210.9	117.1	0.0
30°	341.0	216.1	119.7	0.0
27.5°	351.4	218.7	122.3	0.0
25°	359.2	223.9	125.0	0.0
22.5°	367.0	226.5	127.6	0.0
20°	372.3	229.1	130.2	0.0
17.5°	380.1	231.7	132.8	0.0
15°	382.7	234.3	138.0	0.0
12.5°	387.9	236.9	138.0	0.0
10°	390.5	239.5	138.0	0.0
7.5°	395.7	239.5	138.0	0.0
5°	393.1	239.5	138.0	0.0
2.5°	393.1	239.5	138.0	0.0
0°	390.5	239.5	138.0	0.0

(END OF REPORT)