

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: P628297

Luminaire Tested: **IFLD-S-SA2C-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628297
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

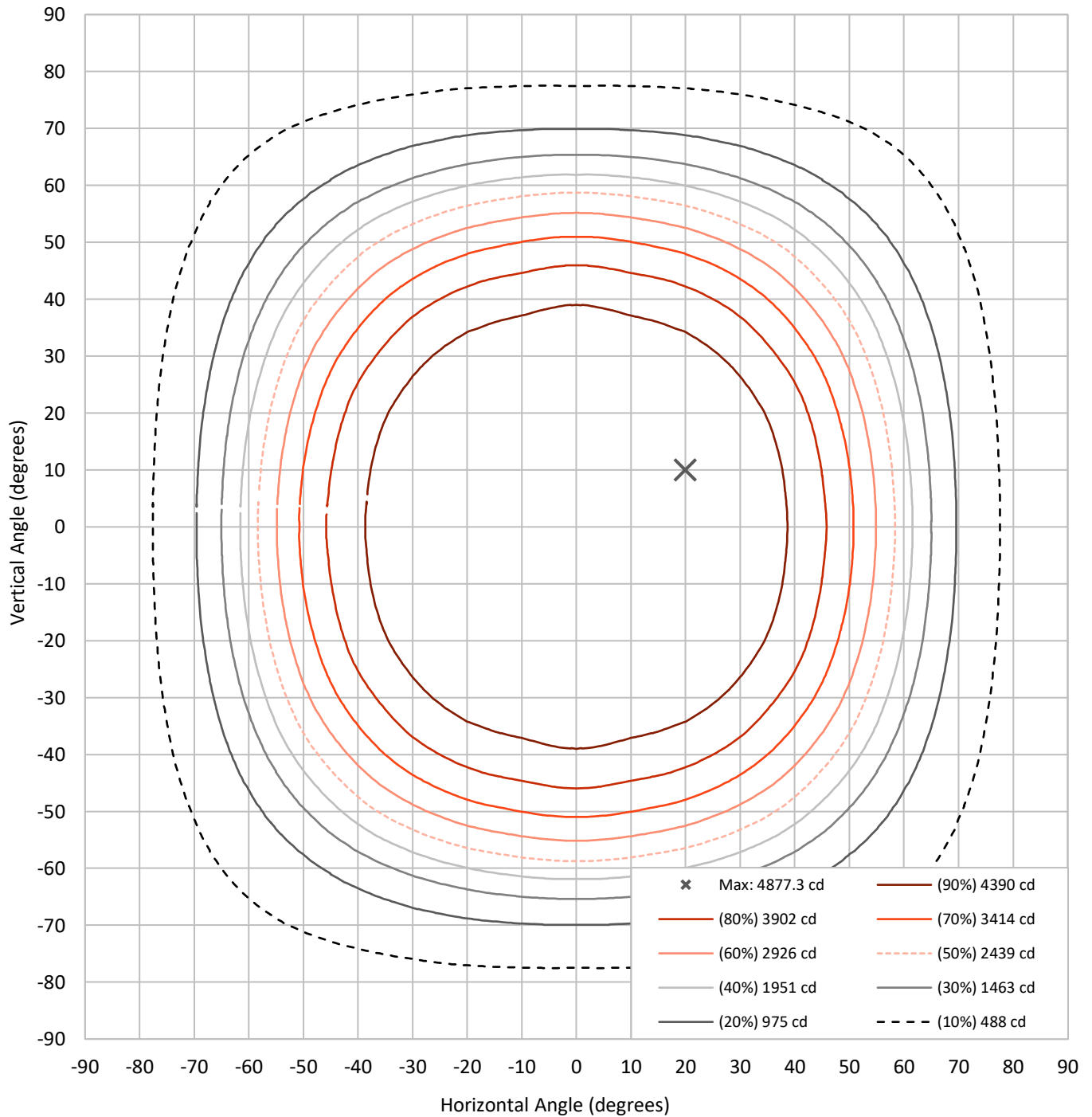
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14963 lumens	Max Intensity:	4877.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	138.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	9181.6 lumens	Field Lumens:	11007.2 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



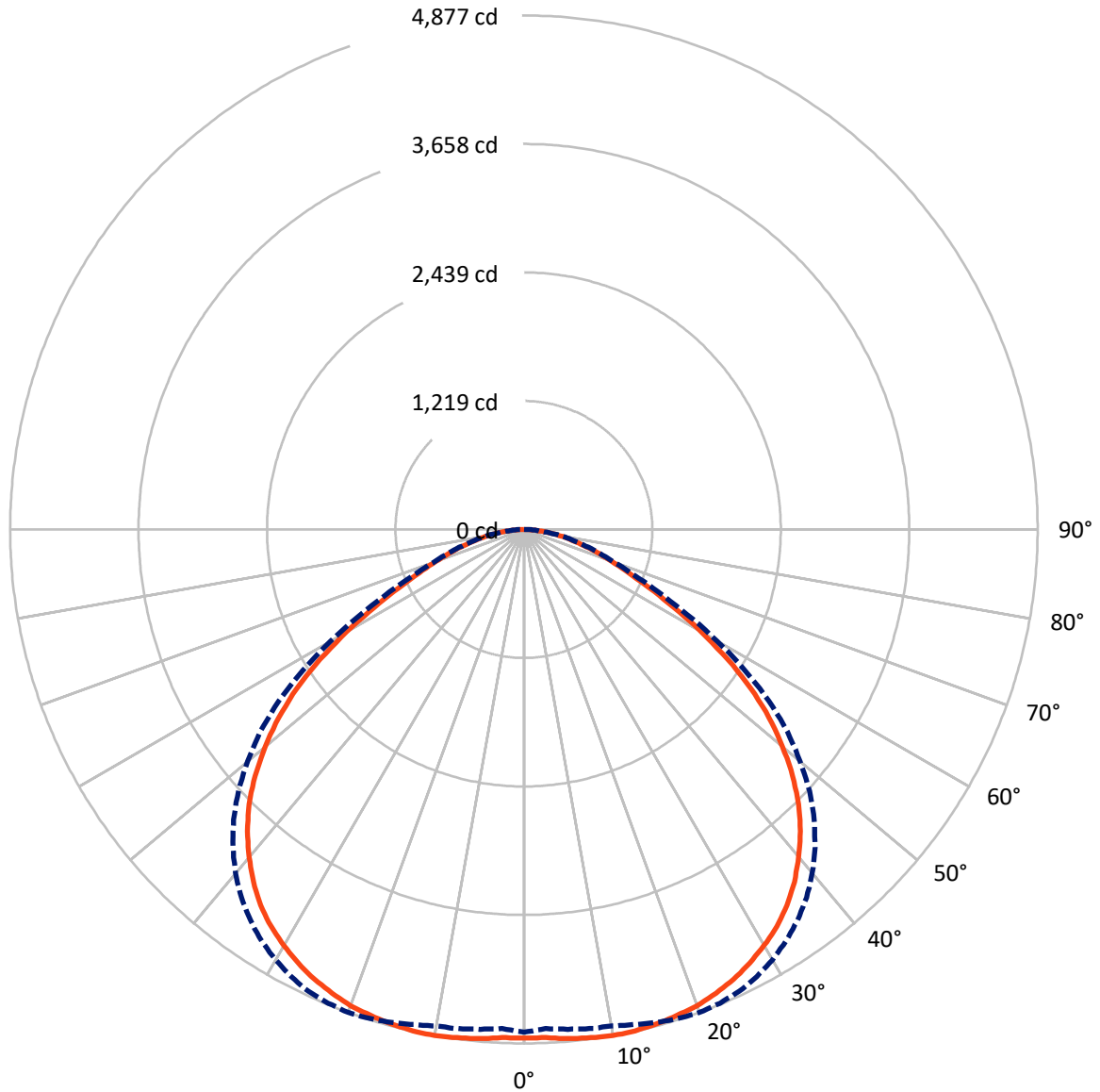
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Iso-Candela Plot



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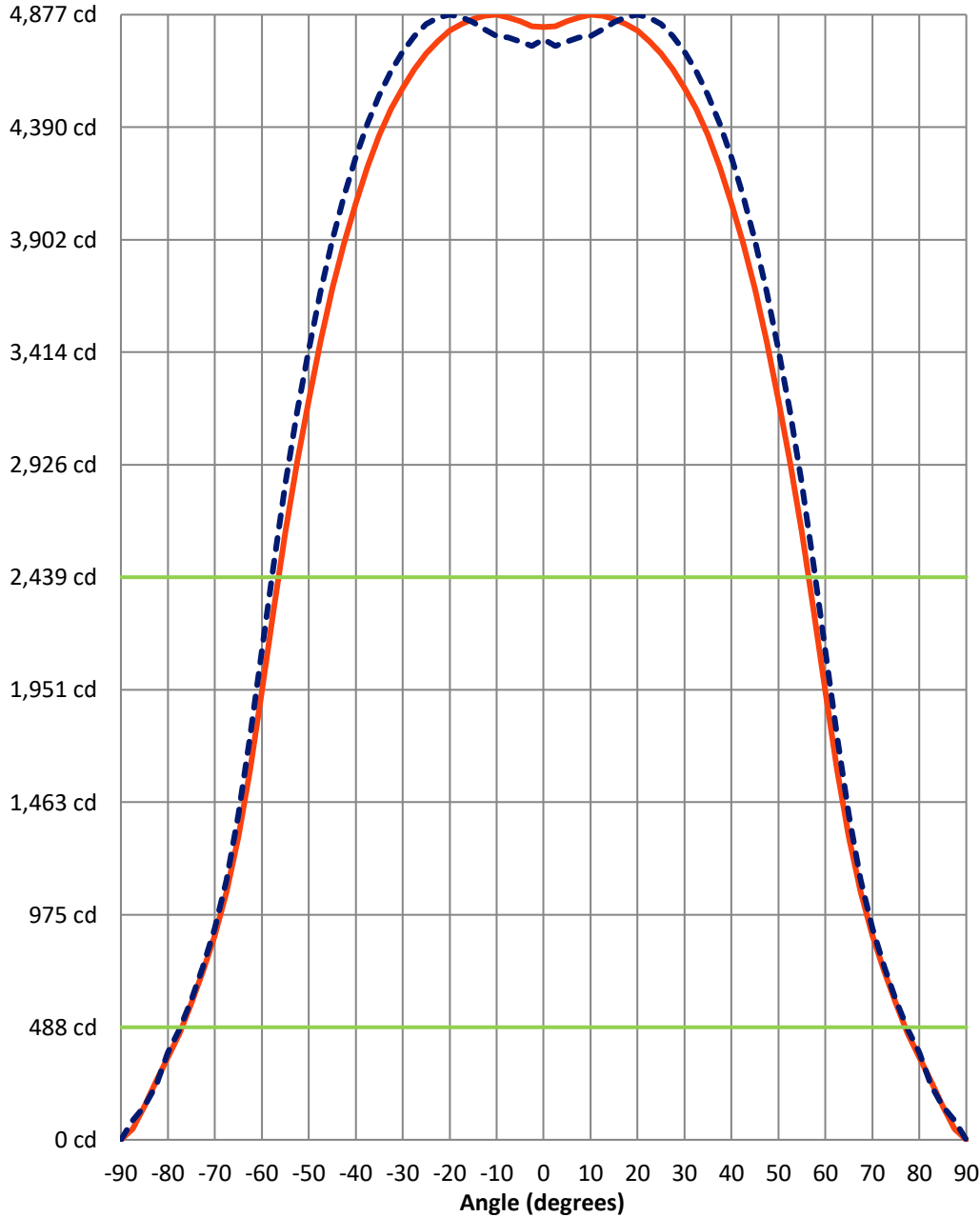
Luminous Intensity Polar Plot



— 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: 9181.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 11007.2
 Efficiency: 73.6%

Spill:
 Lumens: 3955.8
 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°	39.4	42.5	44.1	45.7	47.2	48.8	50.4	48.8	47.2	47.2	45.7
85°	105.5	108.6	110.2	121.2	132.2	138.5	146.4	144.8	144.8	143.3	141.7
82.5°	211.0	220.4	228.3	239.3	245.6	255.0	261.3	256.6	253.5	247.2	242.4
80°	374.7	377.8	379.4	381.0	373.1	371.5	368.4	363.7	357.4	349.5	341.6
77.5°	477.0	480.2	483.3	480.2	478.6	477.0	472.3	467.6	461.3	455.0	445.5
75°	631.3	631.3	631.3	626.6	623.4	618.7	610.8	603.0	592.0	579.4	565.2
72.5°	795.0	793.5	791.9	782.5	774.6	765.1	754.1	744.7	732.1	717.9	699.0
70°	966.7	969.8	971.4	958.8	949.3	936.7	922.6	905.3	886.4	865.9	839.1
67.5°	1202.8	1199.7	1196.5	1179.2	1166.6	1149.3	1128.8	1103.6	1075.3	1043.8	1006.0
65°	1495.6	1500.4	1490.9	1473.6	1450.0	1421.6	1390.2	1353.9	1311.4	1264.2	1210.7
62.5°	1849.9	1857.7	1846.7	1824.7	1794.8	1757.0	1712.9	1660.9	1602.7	1536.6	1470.4
60°	2252.9	2251.3	2230.9	2200.9	2161.6	2114.4	2065.5	2008.9	1942.7	1865.6	1785.3
57.5°	2622.9	2619.7	2594.5	2564.6	2525.3	2474.9	2422.9	2363.1	2293.8	2212.0	2119.1
55°	2955.1	2951.9	2926.7	2895.2	2854.3	2803.9	2756.7	2700.0	2632.3	2545.7	2446.5
52.5°	3249.5	3251.0	3229.0	3194.4	3150.3	3101.5	3055.8	2999.1	2934.6	2848.0	2752.0
50°	3520.2	3518.7	3495.1	3463.6	3422.6	3375.4	3329.8	3273.1	3205.4	3121.9	3029.0
47.5°	3772.1	3769.0	3742.2	3707.6	3665.1	3624.2	3581.6	3531.3	3460.4	3377.0	3284.1
45°	3983.1	3976.8	3950.0	3917.0	3876.0	3839.8	3802.1	3764.3	3688.7	3611.6	3523.4
42.5°	4164.2	4162.6	4135.8	4102.8	4061.8	4030.3	3995.7	3948.5	3885.5	3814.6	3728.1
40°	4337.3	4324.7	4298.0	4266.5	4228.7	4201.9	4167.3	4120.1	4058.7	3989.4	3906.0
37.5°	4466.4	4468.0	4439.7	4405.0	4372.0	4346.8	4315.3	4271.2	4217.7	4150.0	4066.5
35°	4589.2	4581.4	4557.7	4527.8	4497.9	4469.6	4436.5	4398.7	4354.7	4291.7	4213.0
32.5°	4669.5	4680.5	4652.2	4620.7	4603.4	4581.4	4546.7	4507.4	4468.0	4405.0	4334.2
30°	4757.7	4748.2	4726.2	4699.4	4686.8	4672.7	4642.8	4605.0	4559.3	4502.6	4436.5
27.5°	4819.1	4814.4	4787.6	4762.4	4756.1	4743.5	4719.9	4686.8	4641.2	4586.1	4524.7
25°	4845.8	4849.0	4823.8	4809.6	4809.6	4801.8	4782.9	4754.5	4708.9	4658.5	4598.7
22.5°	4858.4	4855.3	4838.0	4834.8	4842.7	4836.4	4828.5	4803.3	4762.4	4721.5	4671.1
20°	4866.3	4844.3	4828.5	4841.1	4850.6	4849.0	4842.7	4827.0	4808.1	4773.4	4729.3
17.5°	4849.0	4834.8	4815.9	4834.8	4855.3	4856.9	4850.6	4841.1	4836.4	4814.4	4775.0
15°	4806.5	4795.5	4798.6	4817.5	4841.1	4849.0	4853.7	4864.7	4858.4	4841.1	4806.5
12.5°	4778.2	4764.0	4778.2	4797.0	4809.6	4814.4	4852.1	4872.6	4872.6	4856.9	4834.8
10°	4770.3	4741.9	4760.8	4778.2	4784.4	4812.8	4844.3	4866.3	4877.3	4864.7	4836.4
7.5°	4754.5	4735.6	4743.5	4751.4	4787.6	4808.1	4825.4	4849.0	4864.7	4863.2	4838.0
5°	4746.7	4723.0	4726.2	4759.3	4784.4	4798.6	4804.9	4825.4	4849.0	4853.7	4834.8
2.5°	4726.2	4715.2	4738.8	4741.9	4760.8	4771.9	4778.2	4797.0	4827.0	4838.0	4830.1
0°	4715.2	4699.4	4683.7	4696.3	4727.8	4751.4	4760.8	4789.2	4823.8	4834.8	4817.5



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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°	44.1	42.5	40.9	39.4	40.9	40.9	40.9	39.4	40.9	39.4	39.4
85°	137.0	130.7	125.9	119.7	113.4	108.6	102.3	96.0	94.5	92.9	89.7
82.5°	236.2	228.3	220.4	211.0	201.5	190.5	179.5	166.9	163.7	160.6	155.9
80°	332.2	321.2	310.1	299.1	289.7	278.7	266.1	251.9	242.4	234.6	225.1
77.5°	432.9	417.2	401.5	382.6	371.5	360.5	347.9	333.8	319.6	307.0	292.8
75°	547.9	530.6	514.8	495.9	475.5	455.0	434.5	415.6	395.2	376.3	357.4
72.5°	675.4	650.2	625.0	601.4	576.2	551.0	524.3	499.1	473.9	448.7	421.9
70°	809.2	777.7	746.2	714.8	681.7	648.6	617.1	585.7	554.2	521.1	491.2
67.5°	966.7	930.4	889.5	845.4	796.6	754.1	713.2	675.4	637.6	599.8	562.0
65°	1163.4	1113.1	1058.0	998.1	941.5	884.8	825.0	768.3	724.2	680.1	637.6
62.5°	1405.9	1335.0	1257.9	1180.8	1111.5	1037.5	968.2	894.2	825.0	762.0	710.0
60°	1695.6	1599.5	1505.1	1405.9	1309.9	1209.1	1120.9	1029.6	943.0	865.9	790.3
57.5°	2015.2	1903.4	1790.0	1668.8	1538.1	1420.1	1300.4	1180.8	1078.4	976.1	891.1
55°	2339.5	2221.4	2093.9	1956.9	1813.7	1662.5	1500.4	1366.5	1226.4	1106.8	996.6
52.5°	2648.1	2525.3	2393.0	2267.1	2095.5	1922.3	1744.4	1568.1	1404.3	1251.6	1117.8
50°	2923.6	2803.9	2676.4	2530.0	2371.0	2186.8	1988.4	1790.0	1596.4	1416.9	1250.0
47.5°	3175.5	3059.0	2931.4	2785.0	2640.2	2435.5	2235.6	2016.7	1801.1	1594.8	1399.6
45°	3411.6	3293.5	3161.3	3021.2	2854.3	2671.7	2465.4	2245.0	2013.6	1782.2	1557.0
42.5°	3625.7	3507.7	3373.8	3229.0	3063.7	2882.6	2682.7	2460.7	2227.7	1975.8	1728.6
40°	3813.1	3698.1	3569.1	3417.9	3263.6	3073.1	2876.3	2665.4	2424.5	2171.0	1898.7
37.5°	3976.8	3869.8	3742.2	3592.7	3428.9	3258.9	3055.8	2844.9	2627.6	2352.1	2073.4
35°	4121.6	4022.5	3891.8	3750.1	3589.5	3410.0	3219.5	3013.3	2778.7	2520.5	2249.7
32.5°	4247.6	4146.8	4027.2	3885.5	3729.6	3561.2	3366.0	3158.1	2936.2	2673.2	2378.8
30°	4354.7	4257.0	4143.7	4009.9	3860.3	3693.4	3502.9	3293.5	3066.8	2805.5	2514.2
27.5°	4447.5	4354.7	4244.4	4120.1	3976.8	3816.2	3624.2	3413.2	3181.8	2929.9	2638.6
25°	4527.8	4438.1	4335.8	4217.7	4076.0	3918.6	3737.5	3517.1	3285.7	3032.2	2744.1
22.5°	4600.3	4513.7	4411.3	4296.4	4167.3	4009.9	3827.2	3608.4	3373.8	3123.5	2840.1
20°	4664.8	4584.5	4483.7	4365.7	4236.6	4077.6	3896.5	3688.7	3452.5	3207.0	2926.7
17.5°	4716.8	4645.9	4545.1	4420.8	4291.7	4137.4	3961.1	3770.6	3520.2	3277.8	2999.1
15°	4753.0	4683.7	4592.4	4466.4	4340.5	4187.8	4011.4	3814.6	3581.6	3334.5	3059.0
12.5°	4778.2	4704.2	4619.1	4502.6	4376.7	4225.6	4054.0	3860.3	3633.6	3384.9	3110.9
10°	4784.4	4716.8	4631.7	4527.8	4405.0	4258.6	4090.2	3898.1	3676.1	3424.2	3153.4
7.5°	4787.6	4723.0	4645.9	4546.7	4425.5	4283.8	4116.9	3928.0	3707.6	3457.3	3184.9
5°	4786.0	4724.6	4655.4	4559.3	4438.1	4298.0	4134.2	3948.5	3729.6	3479.3	3208.5
2.5°	4781.3	4726.2	4661.7	4568.8	4452.3	4313.7	4151.6	3972.1	3753.3	3498.2	3227.4
0°	4793.9	4746.7	4664.8	4565.6	4455.4	4313.7	4150.0	3975.2	3756.4	3496.6	3225.8



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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°	39.4	37.8	37.8	36.2	34.6	33.1	29.9	28.3	25.2	20.5	15.7
85°	85.0	80.3	75.6	72.4	69.3	66.1	61.4	56.7	50.4	40.9	31.5
82.5°	149.6	140.1	130.7	119.7	110.2	100.8	92.9	85.0	75.6	61.4	47.2
80°	214.1	199.9	185.8	170.0	155.9	140.1	125.9	113.4	100.8	81.9	63.0
77.5°	278.7	259.8	239.3	220.4	199.9	179.5	159.0	141.7	122.8	100.8	78.7
75°	338.5	316.4	297.6	270.8	245.6	218.8	192.1	168.5	144.8	118.1	94.5
72.5°	398.3	370.0	343.2	318.0	289.7	256.6	226.7	196.8	166.9	135.4	107.1
70°	458.1	423.5	390.4	360.5	329.0	296.0	259.8	225.1	188.9	151.1	118.1
67.5°	519.5	480.2	442.4	404.6	368.4	330.6	292.8	253.5	211.0	166.9	130.7
65°	587.2	538.4	492.8	450.3	407.8	366.8	324.3	281.8	234.6	184.2	141.7
62.5°	654.9	601.4	547.9	494.3	447.1	401.5	355.8	308.6	256.6	203.1	152.7
60°	727.3	666.0	604.6	544.7	486.5	436.1	385.7	335.3	280.2	220.4	163.7
57.5°	807.6	733.6	664.4	596.7	530.6	470.7	415.6	362.1	300.7	237.7	176.3
55°	899.0	807.6	725.8	650.2	577.8	505.4	445.5	390.4	324.3	255.0	190.5
52.5°	995.0	889.5	790.3	705.3	628.2	546.3	473.9	412.5	347.9	272.4	203.1
50°	1106.8	972.9	862.7	758.8	672.2	587.2	503.8	437.7	371.5	292.8	215.7
47.5°	1221.7	1073.7	935.2	821.8	719.5	626.6	538.4	459.7	393.6	311.7	228.3
45°	1355.5	1169.7	1017.0	883.2	765.1	667.5	573.1	483.3	412.5	330.6	240.9
42.5°	1484.6	1283.1	1102.0	950.9	817.1	706.9	604.6	508.5	431.4	349.5	251.9
40°	1637.3	1396.4	1183.9	1015.5	869.0	744.7	636.0	535.3	448.7	366.8	262.9
37.5°	1783.7	1511.4	1283.1	1086.3	919.4	782.5	667.5	560.5	464.4	384.1	277.1
35°	1928.6	1638.9	1377.6	1152.4	971.4	825.0	699.0	584.1	480.2	398.3	289.7
32.5°	2067.1	1758.5	1473.6	1226.4	1028.1	864.3	727.3	606.1	495.9	410.9	302.3
30°	2196.2	1871.9	1568.1	1302.0	1080.0	900.5	754.1	628.2	514.8	421.9	314.9
27.5°	2314.3	1982.1	1662.5	1372.8	1128.8	933.6	782.5	648.6	530.6	432.9	325.9
25°	2421.4	2081.3	1749.1	1437.4	1172.9	969.8	809.2	669.1	544.7	442.4	335.3
22.5°	2522.1	2172.6	1827.8	1501.9	1226.4	1006.0	834.4	688.0	558.9	451.8	344.8
20°	2610.3	2256.0	1903.4	1566.5	1273.6	1039.1	856.4	705.3	571.5	458.1	354.2
17.5°	2681.1	2330.0	1971.1	1623.2	1314.6	1067.4	875.3	721.1	582.5	466.0	360.5
15°	2744.1	2393.0	2027.8	1672.0	1350.8	1091.0	892.7	733.6	592.0	470.7	368.4
12.5°	2797.6	2446.5	2076.6	1714.5	1382.3	1111.5	906.8	743.1	599.8	475.5	373.1
10°	2841.7	2489.0	2117.5	1747.5	1407.5	1127.2	917.8	752.5	606.1	480.2	377.8
7.5°	2874.8	2520.5	2147.4	1775.9	1427.9	1138.3	927.3	758.8	612.4	483.3	385.7
5°	2900.0	2547.3	2171.0	1794.8	1443.7	1154.0	938.3	766.7	618.7	486.5	385.7
2.5°	2918.8	2569.3	2189.9	1810.5	1456.3	1150.8	938.3	765.1	618.7	486.5	384.1
0°	2915.7	2570.9	2188.3	1810.5	1456.3	1147.7	938.3	763.6	618.7	486.5	384.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.0	7.9	3.1	0.0
85°	23.6	15.7	7.9	0.0
82.5°	34.6	22.0	11.0	0.0
80°	45.7	29.9	14.2	0.0
77.5°	58.3	37.8	18.9	0.0
75°	69.3	44.1	22.0	0.0
72.5°	80.3	52.0	25.2	0.0
70°	89.7	58.3	28.3	0.0
67.5°	99.2	66.1	33.1	0.0
65°	107.1	72.4	36.2	0.0
62.5°	113.4	80.3	39.4	0.0
60°	121.2	86.6	42.5	0.0
57.5°	127.5	91.3	45.7	0.0
55°	133.8	94.5	48.8	0.0
52.5°	140.1	99.2	52.0	0.0
50°	146.4	103.9	55.1	0.0
47.5°	152.7	107.1	56.7	0.0
45°	162.2	111.8	59.8	0.0
42.5°	170.0	114.9	63.0	0.0
40°	177.9	118.1	64.5	0.0
37.5°	185.8	121.2	67.7	0.0
35°	193.6	124.4	69.3	0.0
32.5°	199.9	127.5	70.8	0.0
30°	206.2	130.7	72.4	0.0
27.5°	212.5	132.2	74.0	0.0
25°	217.3	135.4	75.6	0.0
22.5°	222.0	137.0	77.1	0.0
20°	225.1	138.5	78.7	0.0
17.5°	229.9	140.1	80.3	0.0
15°	231.4	141.7	83.4	0.0
12.5°	234.6	143.3	83.4	0.0
10°	236.2	144.8	83.4	0.0
7.5°	239.3	144.8	83.4	0.0
5°	237.7	144.8	83.4	0.0
2.5°	237.7	144.8	83.4	0.0
0°	236.2	144.8	83.4	0.0

(END OF REPORT)