

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: P628190

Luminaire Tested: **IFLD-S-SA6B-727-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628190
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

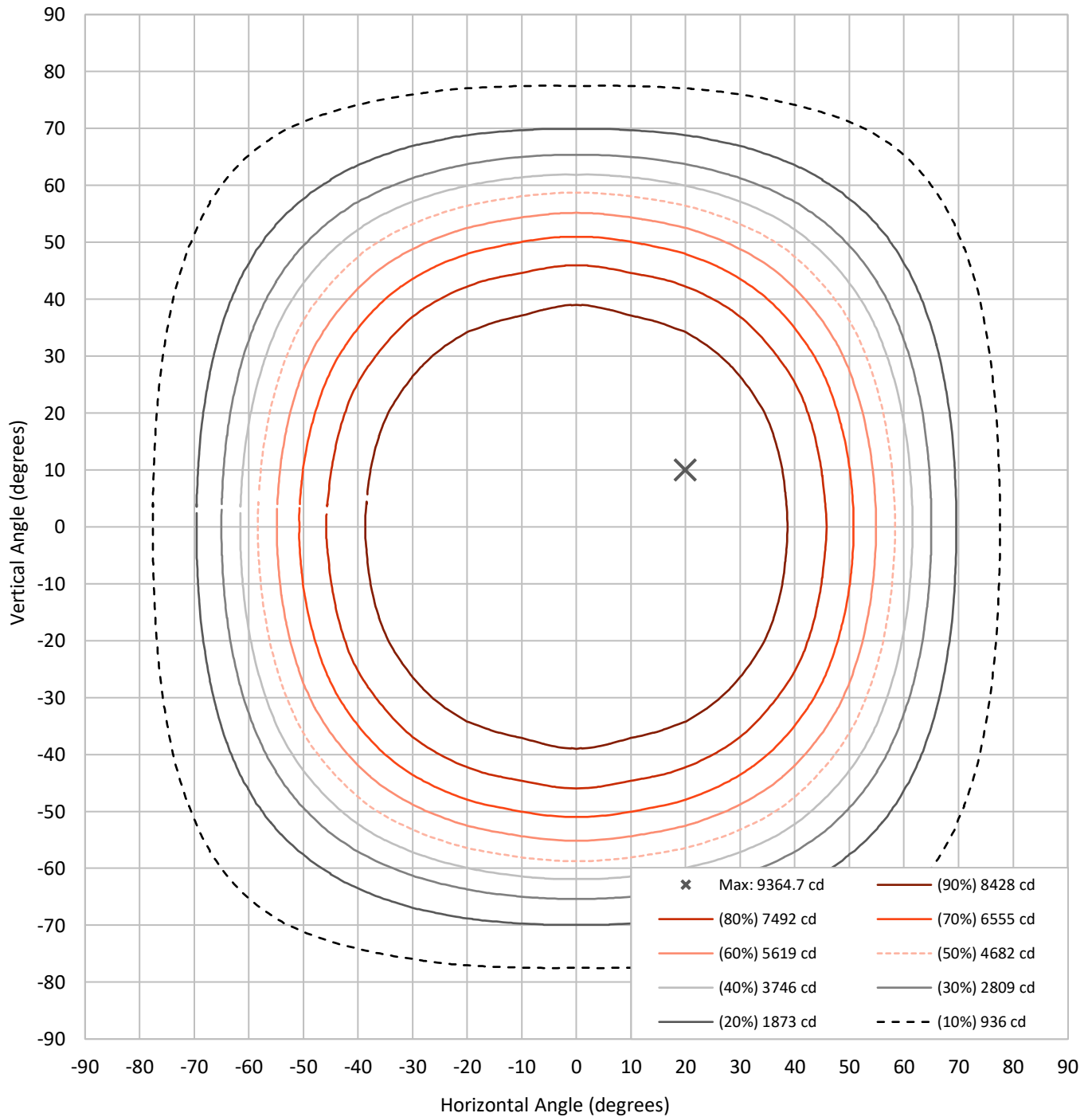
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	28729.7 lumens	Max Intensity:	9364.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	117.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	17629.2 lumens	Field Lumens:	21134.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 244.9
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



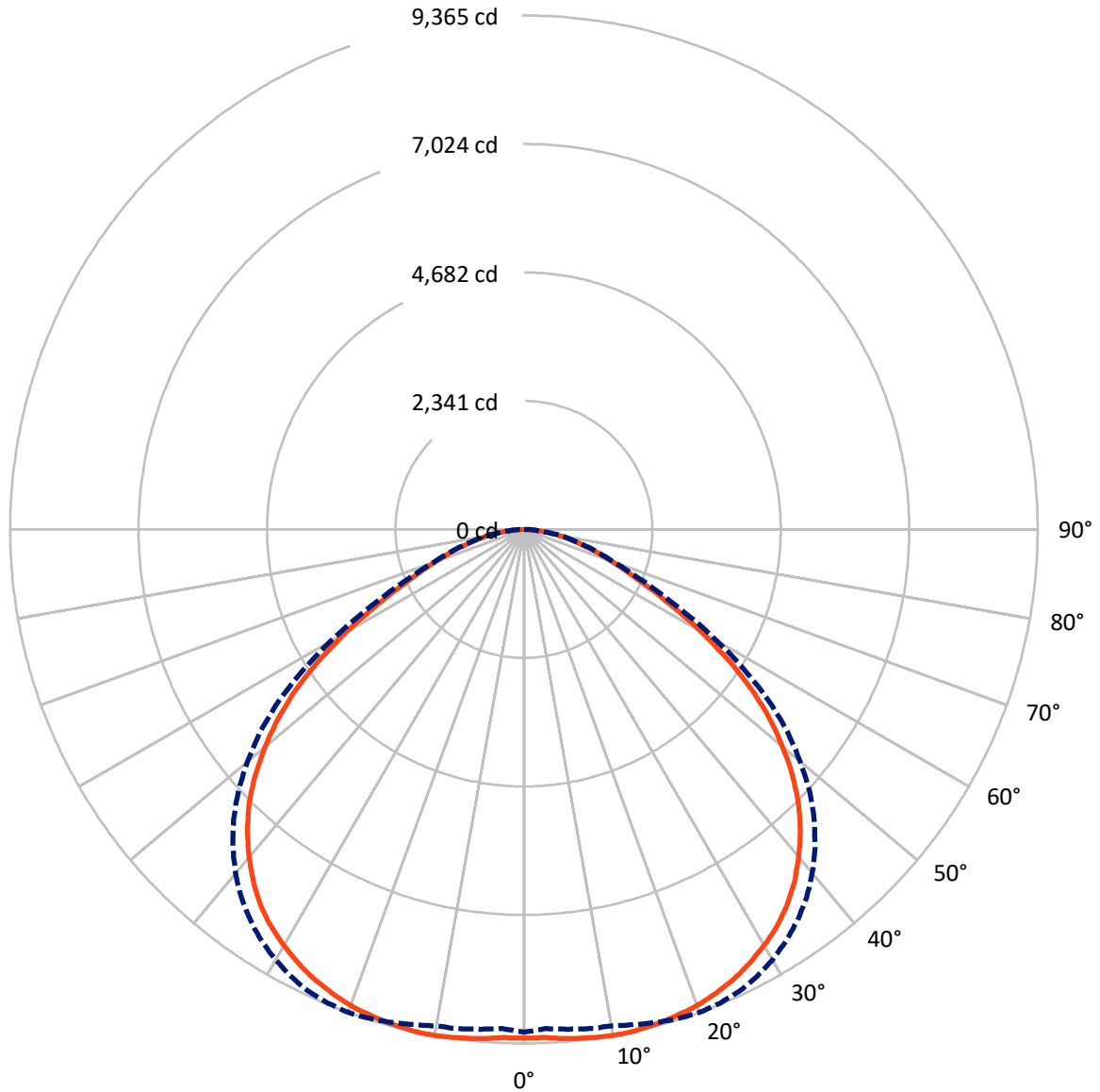
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Iso-Candela Plot



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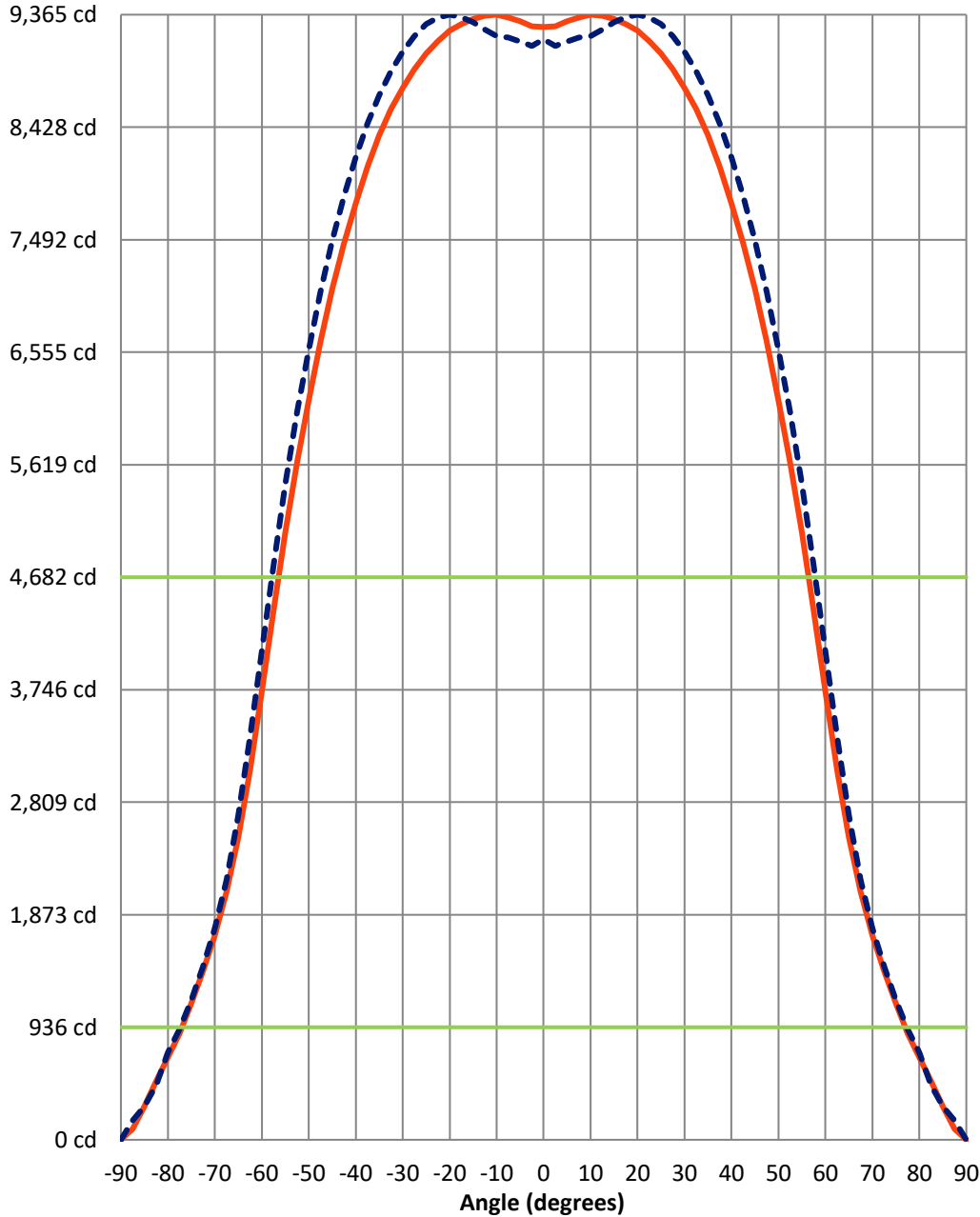
Luminous Intensity Polar Plot



— 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: 17629.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 21134.4
 Efficiency: 73.6%

Spill:
 Lumens: 7595.4
 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°	75.6	81.6	84.6	87.7	90.7	93.7	96.7	93.7	90.7	90.7	87.7
85°	202.5	208.6	211.6	232.8	253.9	266.0	281.1	278.1	278.1	275.1	272.1
82.5°	405.1	423.2	438.3	459.5	471.6	489.7	501.8	492.7	486.7	474.6	465.5
80°	719.4	725.5	728.5	731.5	716.4	713.4	707.3	698.3	686.2	671.1	656.0
77.5°	915.9	922.0	928.0	922.0	918.9	915.9	906.9	897.8	885.7	873.6	855.5
75°	1212.2	1212.2	1212.2	1203.1	1197.0	1188.0	1172.9	1157.7	1136.6	1112.4	1085.2
72.5°	1526.5	1523.5	1520.5	1502.3	1487.2	1469.1	1447.9	1429.8	1405.6	1378.4	1342.1
70°	1856.0	1862.1	1865.1	1840.9	1822.8	1798.6	1771.4	1738.1	1701.9	1662.6	1611.2
67.5°	2309.4	2303.4	2297.4	2264.1	2239.9	2206.7	2167.4	2119.0	2064.6	2004.1	1931.6
65°	2871.7	2880.8	2862.6	2829.4	2784.0	2729.6	2669.2	2599.6	2518.0	2427.3	2324.6
62.5°	3551.8	3566.9	3545.8	3503.5	3446.0	3373.5	3288.8	3189.1	3077.2	2950.3	2823.3
60°	4325.7	4322.7	4283.4	4225.9	4150.4	4059.7	3966.0	3857.1	3730.2	3582.1	3427.9
57.5°	5036.0	5030.0	4981.6	4924.2	4848.6	4751.9	4652.1	4537.3	4404.3	4247.1	4068.7
55°	5673.9	5667.8	5619.4	5559.0	5480.4	5383.7	5293.0	5184.2	5054.2	4887.9	4697.5
52.5°	6239.1	6242.2	6199.8	6133.3	6048.7	5955.0	5867.3	5758.5	5634.6	5468.3	5283.9
50°	6759.1	6756.0	6710.7	6650.2	6571.6	6481.0	6393.3	6284.5	6154.5	5994.3	5815.9
47.5°	7242.7	7236.7	7185.3	7118.8	7037.2	6958.6	6876.9	6780.2	6644.2	6484.0	6305.6
45°	7647.8	7635.7	7584.3	7520.8	7442.2	7372.7	7300.1	7227.6	7082.5	6934.4	6765.1
42.5°	7995.4	7992.4	7941.0	7877.5	7798.9	7738.5	7672.0	7581.3	7460.4	7324.3	7158.1
40°	8327.9	8303.7	8252.3	8191.9	8119.3	8067.9	8001.4	7910.8	7792.9	7659.9	7499.7
37.5°	8575.8	8578.8	8524.4	8457.9	8394.4	8346.0	8285.6	8200.9	8098.2	7968.2	7808.0
35°	8811.6	8796.4	8751.1	8693.7	8636.2	8581.8	8518.3	8445.8	8361.2	8240.2	8089.1
32.5°	8965.7	8986.9	8932.5	8872.0	8838.8	8796.4	8729.9	8654.4	8578.8	8457.9	8321.9
30°	9135.0	9116.9	9074.5	9023.2	8999.0	8971.8	8914.3	8841.8	8754.1	8645.3	8518.3
27.5°	9252.9	9243.8	9192.4	9144.1	9132.0	9107.8	9062.5	8999.0	8911.3	8805.5	8687.6
25°	9304.3	9310.3	9262.0	9234.8	9234.8	9219.6	9183.4	9129.0	9041.3	8944.6	8829.7
22.5°	9328.5	9322.4	9289.2	9283.1	9298.2	9286.1	9271.0	9222.7	9144.1	9065.5	8968.7
20°	9343.6	9301.3	9271.0	9295.2	9313.4	9310.3	9298.2	9268.0	9231.7	9165.2	9080.6
17.5°	9310.3	9283.1	9246.8	9283.1	9322.4	9325.4	9313.4	9295.2	9286.1	9243.8	9168.3
15°	9228.7	9207.6	9213.6	9249.9	9295.2	9310.3	9319.4	9340.6	9328.5	9295.2	9228.7
12.5°	9174.3	9147.1	9174.3	9210.6	9234.8	9243.8	9316.4	9355.7	9355.7	9325.4	9283.1
10°	9159.2	9104.8	9141.0	9174.3	9186.4	9240.8	9301.3	9343.6	9364.7	9340.6	9286.1
7.5°	9129.0	9092.7	9107.8	9122.9	9192.4	9231.7	9265.0	9310.3	9340.6	9337.5	9289.2
5°	9113.8	9068.5	9074.5	9138.0	9186.4	9213.6	9225.7	9265.0	9310.3	9319.4	9283.1
2.5°	9074.5	9053.4	9098.7	9104.8	9141.0	9162.2	9174.3	9210.6	9268.0	9289.2	9274.1
0°	9053.4	9023.2	8992.9	9017.1	9077.6	9122.9	9141.0	9195.5	9262.0	9283.1	9249.9



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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°	84.6	81.6	78.6	75.6	78.6	78.6	78.6	75.6	78.6	75.6	75.6
85°	263.0	250.9	241.8	229.7	217.6	208.6	196.5	184.4	181.4	178.3	172.3
82.5°	453.4	438.3	423.2	405.1	386.9	365.8	344.6	320.4	314.4	308.3	299.3
80°	637.8	616.7	595.5	574.3	556.2	535.0	510.9	483.7	465.5	450.4	432.3
77.5°	831.3	801.1	770.8	734.5	713.4	692.2	668.0	640.8	613.6	589.5	562.2
75°	1051.9	1018.7	988.5	952.2	912.9	873.6	834.3	798.0	758.7	722.5	686.2
72.5°	1296.8	1248.4	1200.1	1154.7	1106.4	1058.0	1006.6	958.2	909.9	861.5	810.1
70°	1553.7	1493.3	1432.8	1372.4	1308.9	1245.4	1185.0	1124.5	1064.0	1000.6	943.1
67.5°	1856.0	1786.5	1707.9	1623.3	1529.6	1447.9	1369.3	1296.8	1224.2	1151.7	1079.2
65°	2233.9	2137.1	2031.3	1916.5	1807.7	1698.8	1584.0	1475.1	1390.5	1305.9	1224.2
62.5°	2699.4	2563.4	2415.2	2267.1	2134.1	1992.0	1859.0	1717.0	1584.0	1463.1	1363.3
60°	3255.6	3071.2	2889.8	2699.4	2515.0	2321.5	2152.3	1976.9	1810.7	1662.6	1517.5
57.5°	3869.2	3654.6	3437.0	3204.2	2953.3	2726.6	2496.9	2267.1	2070.6	1874.2	1710.9
55°	4491.9	4265.2	4020.4	3757.4	3482.3	3192.1	2880.8	2623.8	2354.8	2125.1	1913.5
52.5°	5084.4	4848.6	4594.7	4352.9	4023.4	3690.9	3349.3	3010.7	2696.4	2403.2	2146.2
50°	5613.4	5383.7	5138.8	4857.7	4552.4	4198.7	3817.8	3437.0	3065.2	2720.6	2400.1
47.5°	6097.1	5873.4	5628.5	5347.4	5069.3	4676.3	4292.4	3872.3	3458.1	3062.1	2687.3
45°	6550.5	6323.8	6069.9	5800.8	5480.4	5129.7	4733.8	4310.6	3866.2	3421.8	2989.6
42.5°	6961.6	6734.9	6477.9	6199.8	5882.4	5534.8	5150.9	4724.7	4277.3	3793.7	3319.1
40°	7321.3	7100.6	6852.8	6562.6	6266.3	5900.6	5522.7	5117.7	4655.2	4168.5	3645.5
37.5°	7635.7	7430.1	7185.3	6898.1	6583.7	6257.3	5867.3	5462.3	5045.1	4516.1	3981.1
35°	7913.8	7723.3	7472.4	7200.4	6892.1	6547.5	6181.7	5785.7	5335.3	4839.6	4319.6
32.5°	8155.6	7962.1	7732.4	7460.4	7161.1	6837.7	6462.8	6063.8	5637.6	5132.8	4567.5
30°	8361.2	8173.7	7956.1	7699.2	7412.0	7091.6	6725.8	6323.8	5888.5	5386.7	4827.5
27.5°	8539.5	8361.2	8149.6	7910.8	7635.7	7327.3	6958.6	6553.5	6109.1	5625.5	5066.3
25°	8693.7	8521.4	8324.9	8098.2	7826.1	7523.8	7176.2	6753.0	6308.7	5822.0	5268.8
22.5°	8832.7	8666.5	8470.0	8249.3	8001.4	7699.2	7348.5	6928.3	6477.9	5997.3	5453.2
20°	8956.7	8802.5	8609.0	8382.3	8134.4	7829.1	7481.5	7082.5	6629.1	6157.5	5619.4
17.5°	9056.4	8920.4	8726.9	8488.1	8240.2	7944.0	7605.5	7239.7	6759.1	6293.5	5758.5
15°	9125.9	8992.9	8817.6	8575.8	8334.0	8040.7	7702.2	7324.3	6876.9	6402.4	5873.4
12.5°	9174.3	9032.2	8869.0	8645.3	8403.5	8113.3	7783.8	7412.0	6976.7	6499.1	5973.1
10°	9186.4	9056.4	8893.2	8693.7	8457.9	8176.8	7853.3	7484.5	7058.3	6574.7	6054.7
7.5°	9192.4	9068.5	8920.4	8729.9	8497.2	8225.1	7904.7	7542.0	7118.8	6638.1	6115.2
5°	9189.4	9071.5	8938.5	8754.1	8521.4	8252.3	7938.0	7581.3	7161.1	6680.5	6160.5
2.5°	9180.3	9074.5	8950.6	8772.3	8548.6	8282.6	7971.2	7626.6	7206.4	6716.7	6196.8
0°	9204.5	9113.8	8956.7	8766.2	8554.6	8282.6	7968.2	7632.7	7212.5	6713.7	6193.8



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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°	75.6	72.5	72.5	69.5	66.5	63.5	57.4	54.4	48.4	39.3	30.2
85°	163.2	154.2	145.1	139.1	133.0	127.0	117.9	108.8	96.7	78.6	60.5
82.5°	287.2	269.0	250.9	229.7	211.6	193.5	178.3	163.2	145.1	117.9	90.7
80°	411.1	383.9	356.7	326.5	299.3	269.0	241.8	217.6	193.5	157.2	120.9
77.5°	535.0	498.8	459.5	423.2	383.9	344.6	305.3	272.1	235.8	193.5	151.1
75°	649.9	607.6	571.3	519.9	471.6	420.2	368.8	323.4	278.1	226.7	181.4
72.5°	764.8	710.4	659.0	610.6	556.2	492.7	435.3	377.9	320.4	260.0	205.6
70°	879.6	813.1	749.7	692.2	631.8	568.3	498.8	432.3	362.7	290.2	226.7
67.5°	997.5	922.0	849.4	776.9	707.3	634.8	562.2	486.7	405.1	320.4	250.9
65°	1127.5	1033.8	946.1	864.5	782.9	704.3	622.7	541.1	450.4	353.7	272.1
62.5°	1257.5	1154.7	1051.9	949.2	858.5	770.8	683.2	592.5	492.7	389.9	293.2
60°	1396.5	1278.7	1160.8	1045.9	934.1	837.3	740.6	643.9	538.1	423.2	314.4
57.5°	1550.7	1408.6	1275.6	1145.7	1018.7	903.8	798.0	695.3	577.4	456.4	338.6
55°	1726.0	1550.7	1393.5	1248.4	1109.4	970.3	855.5	749.7	622.7	489.7	365.8
52.5°	1910.4	1707.9	1517.5	1354.2	1206.1	1048.9	909.9	792.0	668.0	523.0	389.9
50°	2125.1	1868.1	1656.5	1457.0	1290.8	1127.5	967.3	840.3	713.4	562.2	414.1
47.5°	2345.7	2061.6	1795.6	1577.9	1381.4	1203.1	1033.8	882.7	755.7	598.5	438.3
45°	2602.7	2246.0	1952.8	1695.8	1469.1	1281.7	1100.3	928.0	792.0	634.8	462.5
42.5°	2850.5	2463.6	2116.0	1825.8	1568.9	1357.3	1160.8	976.4	828.3	671.1	483.7
40°	3143.7	2681.3	2273.2	1949.7	1668.6	1429.8	1221.2	1027.8	861.5	704.3	504.8
37.5°	3424.9	2901.9	2463.6	2085.8	1765.3	1502.3	1281.7	1076.1	891.7	737.6	532.0
35°	3703.0	3146.8	2645.0	2212.7	1865.1	1584.0	1342.1	1121.5	922.0	764.8	556.2
32.5°	3969.0	3376.5	2829.4	2354.8	1973.9	1659.5	1396.5	1163.8	952.2	789.0	580.4
30°	4216.9	3594.1	3010.7	2499.9	2073.7	1729.1	1447.9	1206.1	988.5	810.1	604.6
27.5°	4443.6	3805.7	3192.1	2635.9	2167.4	1792.5	1502.3	1245.4	1018.7	831.3	625.7
25°	4649.1	3996.2	3358.4	2759.8	2252.0	1862.1	1553.7	1284.7	1045.9	849.4	643.9
22.5°	4842.6	4171.5	3509.5	2883.8	2354.8	1931.6	1602.1	1321.0	1073.1	867.6	662.0
20°	5011.9	4331.7	3654.6	3007.7	2445.5	1995.1	1644.4	1354.2	1097.3	879.6	680.1
17.5°	5147.9	4473.8	3784.6	3116.5	2524.1	2049.5	1680.7	1384.5	1118.4	894.8	692.2
15°	5268.8	4594.7	3893.4	3210.2	2593.6	2094.8	1713.9	1408.6	1136.6	903.8	707.3
12.5°	5371.6	4697.5	3987.1	3291.9	2654.0	2134.1	1741.2	1426.8	1151.7	912.9	716.4
10°	5456.2	4779.1	4065.7	3355.3	2702.4	2164.3	1762.3	1444.9	1163.8	922.0	725.5
7.5°	5519.7	4839.6	4123.1	3409.8	2741.7	2185.5	1780.4	1457.0	1175.9	928.0	740.6
5°	5568.1	4890.9	4168.5	3446.0	2771.9	2215.7	1801.6	1472.1	1188.0	934.1	740.6
2.5°	5604.3	4933.3	4204.8	3476.3	2796.1	2209.7	1801.6	1469.1	1188.0	934.1	737.6
0°	5598.3	4936.3	4201.7	3476.3	2796.1	2203.6	1801.6	1466.1	1188.0	934.1	737.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	21.2	15.1	6.0	0.0
85°	45.3	30.2	15.1	0.0
82.5°	66.5	42.3	21.2	0.0
80°	87.7	57.4	27.2	0.0
77.5°	111.8	72.5	36.3	0.0
75°	133.0	84.6	42.3	0.0
72.5°	154.2	99.8	48.4	0.0
70°	172.3	111.8	54.4	0.0
67.5°	190.4	127.0	63.5	0.0
65°	205.6	139.1	69.5	0.0
62.5°	217.6	154.2	75.6	0.0
60°	232.8	166.3	81.6	0.0
57.5°	244.8	175.3	87.7	0.0
55°	256.9	181.4	93.7	0.0
52.5°	269.0	190.4	99.8	0.0
50°	281.1	199.5	105.8	0.0
47.5°	293.2	205.6	108.8	0.0
45°	311.4	214.6	114.9	0.0
42.5°	326.5	220.7	120.9	0.0
40°	341.6	226.7	123.9	0.0
37.5°	356.7	232.8	130.0	0.0
35°	371.8	238.8	133.0	0.0
32.5°	383.9	244.8	136.0	0.0
30°	396.0	250.9	139.1	0.0
27.5°	408.1	253.9	142.1	0.0
25°	417.2	260.0	145.1	0.0
22.5°	426.2	263.0	148.1	0.0
20°	432.3	266.0	151.1	0.0
17.5°	441.3	269.0	154.2	0.0
15°	444.4	272.1	160.2	0.0
12.5°	450.4	275.1	160.2	0.0
10°	453.4	278.1	160.2	0.0
7.5°	459.5	278.1	160.2	0.0
5°	456.4	278.1	160.2	0.0
2.5°	456.4	278.1	160.2	0.0
0°	453.4	278.1	160.2	0.0

(END OF REPORT)