

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: P628364

Luminaire Tested: **IFLD-S-SA6B-827-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628364
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

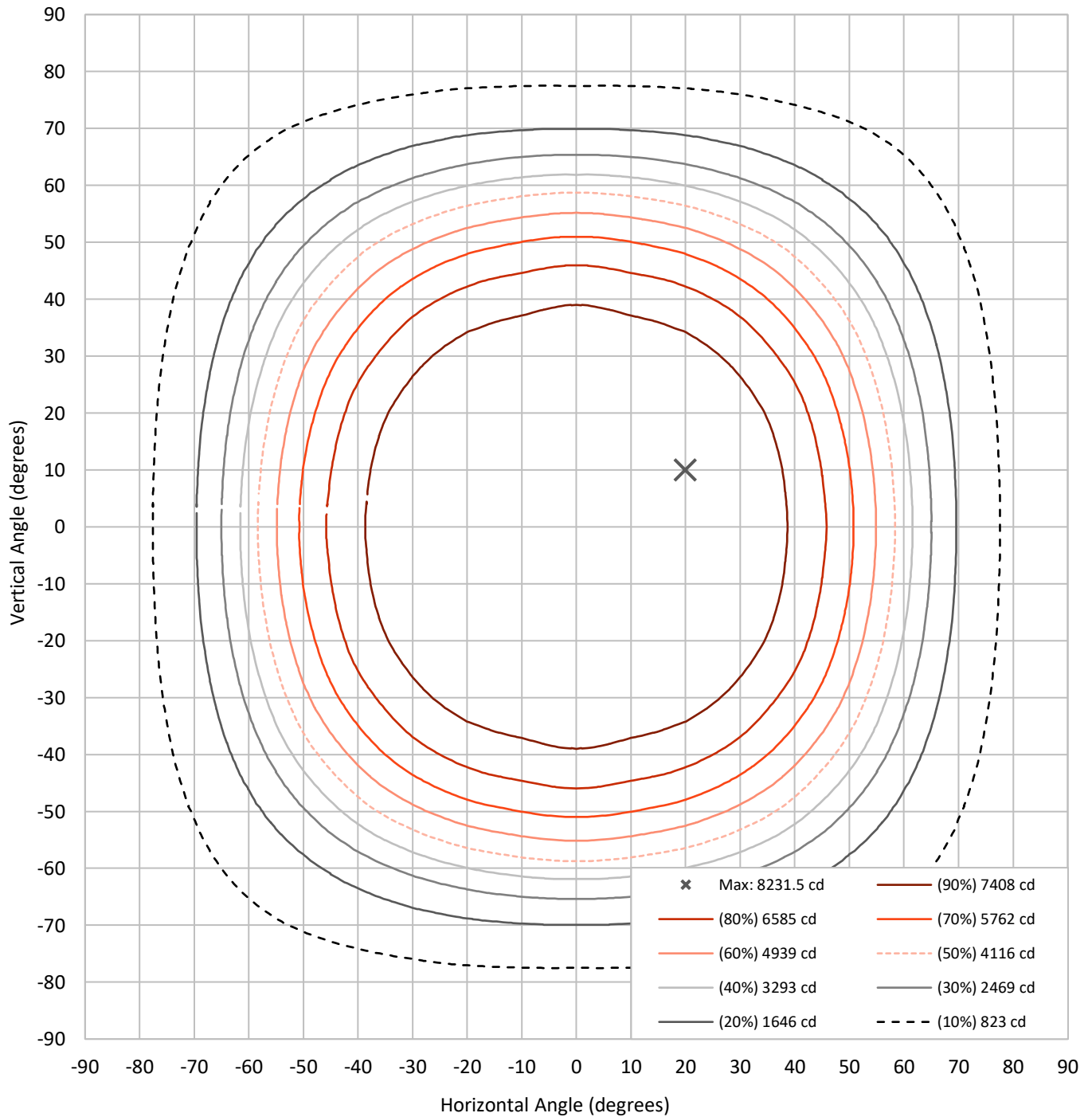
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	25253.2 lumens	Max Intensity:	8231.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	103.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	15495.9 lumens	Field Lumens:	18576.9 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



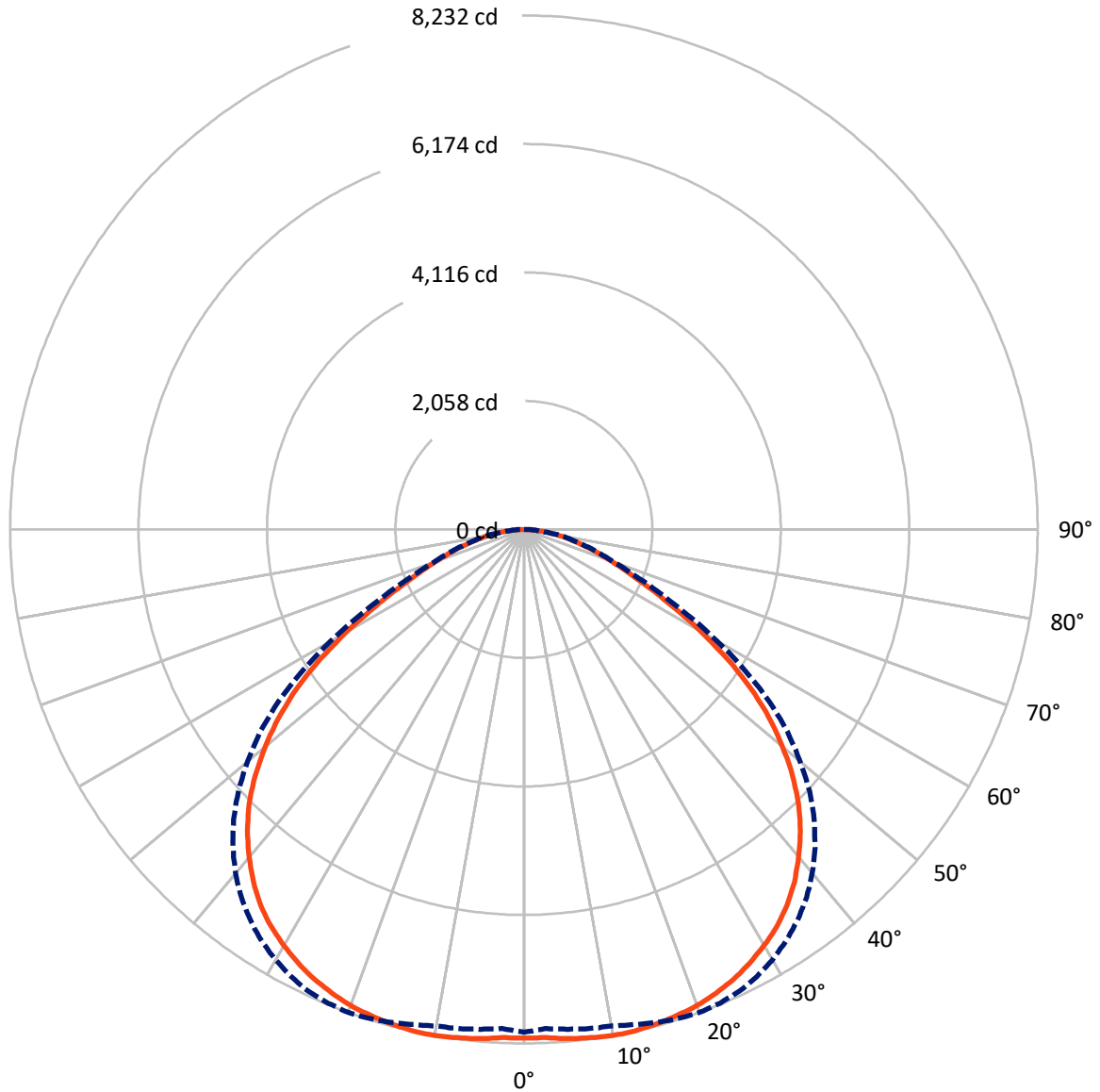
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Iso-Candela Plot



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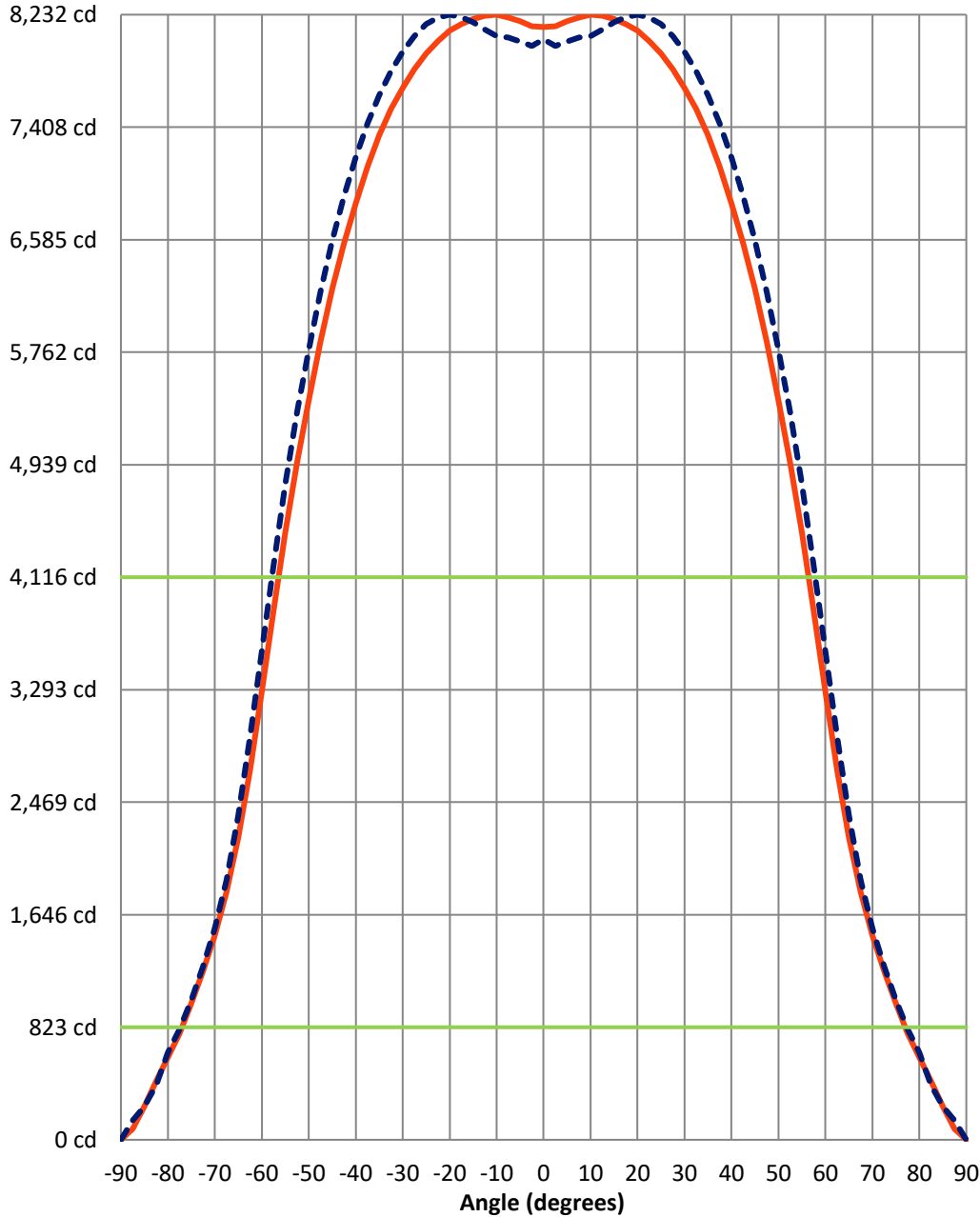
Luminous Intensity Polar Plot



— 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: 15495.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 18576.9
 Efficiency: 73.6%

Spill:
 Lumens: 6676.3
 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°	66.4	71.7	74.4	77.1	79.7	82.4	85.0	82.4	79.7	79.7	77.1
85°	178.0	183.3	186.0	204.6	223.2	233.8	247.1	244.4	244.4	241.8	239.1
82.5°	356.0	372.0	385.3	403.9	414.5	430.4	441.1	433.1	427.8	417.2	409.2
80°	632.4	637.7	640.3	643.0	629.7	627.1	621.7	613.8	603.1	589.9	576.6
77.5°	805.1	810.4	815.7	810.4	807.7	805.1	797.1	789.1	778.5	767.9	751.9
75°	1065.5	1065.5	1065.5	1057.5	1052.2	1044.2	1030.9	1017.6	999.0	977.8	953.9
72.5°	1341.8	1339.1	1336.5	1320.6	1307.3	1291.3	1272.7	1256.8	1235.5	1211.6	1179.7
70°	1631.4	1636.7	1639.4	1618.1	1602.2	1580.9	1557.0	1527.8	1495.9	1461.4	1416.2
67.5°	2030.0	2024.7	2019.4	1990.1	1968.9	1939.6	1905.1	1862.6	1814.8	1761.6	1697.9
65°	2524.2	2532.2	2516.2	2487.0	2447.1	2399.3	2346.2	2285.1	2213.3	2133.6	2043.3
62.5°	3122.0	3135.3	3116.7	3079.5	3029.0	2965.3	2890.9	2803.2	2704.9	2593.3	2481.7
60°	3802.2	3799.6	3765.0	3714.5	3648.1	3568.4	3486.0	3390.4	3278.8	3148.6	3013.1
57.5°	4426.6	4421.3	4378.8	4328.3	4261.9	4176.9	4089.2	3988.2	3871.3	3733.1	3576.4
55°	4987.3	4982.0	4939.4	4886.3	4817.2	4732.2	4652.5	4556.8	4442.6	4296.4	4129.0
52.5°	5484.1	5486.8	5449.6	5391.1	5316.7	5234.4	5157.3	5061.7	4952.7	4806.6	4644.5
50°	5941.1	5938.5	5898.6	5845.5	5776.4	5696.7	5619.6	5524.0	5409.7	5268.9	5112.2
47.5°	6366.3	6361.0	6315.8	6257.3	6185.6	6116.5	6044.8	5959.7	5840.2	5699.4	5542.6
45°	6722.3	6711.7	6666.5	6610.7	6541.6	6480.5	6416.8	6353.0	6225.5	6095.3	5946.5
42.5°	7027.9	7025.2	6980.1	6924.3	6855.2	6802.0	6743.6	6663.9	6557.6	6438.0	6291.9
40°	7320.2	7298.9	7253.7	7200.6	7136.8	7091.6	7033.2	6953.5	6849.9	6732.9	6592.1
37.5°	7538.0	7540.7	7492.9	7434.4	7378.6	7336.1	7283.0	7208.6	7118.2	7004.0	6863.1
35°	7745.3	7732.0	7692.1	7641.7	7591.2	7543.3	7487.5	7423.8	7349.4	7243.1	7110.2
32.5°	7880.8	7899.4	7851.6	7798.4	7769.2	7732.0	7673.5	7607.1	7540.7	7434.4	7314.8
30°	8029.6	8013.6	7976.4	7931.3	7910.0	7886.1	7835.6	7771.9	7694.8	7599.1	7487.5
27.5°	8133.2	8125.2	8080.1	8037.6	8026.9	8005.7	7965.8	7910.0	7833.0	7740.0	7636.3
25°	8178.4	8183.7	8141.2	8117.3	8117.3	8104.0	8072.1	8024.3	7947.2	7862.2	7761.2
22.5°	8199.6	8194.3	8165.1	8159.8	8173.1	8162.4	8149.2	8106.6	8037.6	7968.5	7883.4
20°	8212.9	8175.7	8149.2	8170.4	8186.4	8183.7	8173.1	8146.5	8114.6	8056.2	7981.8
17.5°	8183.7	8159.8	8127.9	8159.8	8194.3	8197.0	8186.4	8170.4	8162.4	8125.2	8058.8
15°	8112.0	8093.4	8098.7	8130.6	8170.4	8183.7	8191.7	8210.3	8199.6	8170.4	8112.0
12.5°	8064.1	8040.2	8064.1	8096.0	8117.3	8125.2	8189.0	8223.5	8223.5	8197.0	8159.8
10°	8050.8	8003.0	8034.9	8064.1	8074.8	8122.6	8175.7	8212.9	8231.5	8210.3	8162.4
7.5°	8024.3	7992.4	8005.7	8019.0	8080.1	8114.6	8143.8	8183.7	8210.3	8207.6	8165.1
5°	8011.0	7971.1	7976.4	8032.2	8074.8	8098.7	8109.3	8143.8	8183.7	8191.7	8159.8
2.5°	7976.4	7957.8	7997.7	8003.0	8034.9	8053.5	8064.1	8096.0	8146.5	8165.1	8151.8
0°	7957.8	7931.3	7904.7	7926.0	7979.1	8019.0	8034.9	8082.7	8141.2	8159.8	8130.6



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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°	74.4	71.7	69.1	66.4	69.1	69.1	69.1	66.4	69.1	66.4	66.4
85°	231.2	220.5	212.6	201.9	191.3	183.3	172.7	162.1	159.4	156.8	151.5
82.5°	398.6	385.3	372.0	356.0	340.1	321.5	302.9	281.6	276.3	271.0	263.0
80°	560.6	542.0	523.4	504.8	488.9	470.3	449.0	425.1	409.2	395.9	380.0
77.5°	730.7	704.1	677.5	645.7	627.1	608.5	587.2	563.3	539.4	518.1	494.2
75°	924.7	895.4	868.9	837.0	802.4	767.9	733.3	701.5	666.9	635.0	603.1
72.5°	1139.9	1097.4	1054.8	1015.0	972.5	930.0	884.8	842.3	799.8	757.3	712.1
70°	1365.7	1312.6	1259.4	1206.3	1150.5	1094.7	1041.6	988.4	935.3	879.5	829.0
67.5°	1631.4	1570.3	1501.2	1426.8	1344.5	1272.7	1203.6	1139.9	1076.1	1012.3	948.6
65°	1963.6	1878.5	1785.5	1684.6	1588.9	1493.3	1392.3	1296.6	1222.2	1147.8	1076.1
62.5°	2372.7	2253.2	2123.0	1992.8	1875.9	1751.0	1634.1	1509.2	1392.3	1286.0	1198.3
60°	2861.6	2699.6	2540.1	2372.7	2210.7	2040.6	1891.8	1737.7	1591.6	1461.4	1333.8
57.5°	3401.0	3212.4	3021.1	2816.5	2595.9	2396.7	2194.7	1992.8	1820.1	1647.4	1503.9
55°	3948.4	3749.1	3533.9	3302.7	3060.9	2805.8	2532.2	2306.3	2069.8	1867.9	1681.9
52.5°	4469.1	4261.9	4038.7	3826.1	3536.5	3244.2	2944.0	2646.4	2370.1	2112.3	1886.5
50°	4934.1	4732.2	4517.0	4269.9	4001.5	3690.6	3355.8	3021.1	2694.2	2391.3	2109.7
47.5°	5359.3	5162.6	4947.4	4700.3	4455.9	4110.4	3773.0	3403.7	3039.7	2691.6	2362.1
45°	5757.8	5558.5	5335.3	5098.9	4817.2	4509.0	4160.9	3788.9	3398.4	3007.8	2627.8
42.5°	6119.2	5919.9	5694.0	5449.6	5170.6	4865.0	4527.6	4153.0	3759.7	3334.6	2917.4
40°	6435.4	6241.4	6023.5	5768.4	5508.1	5186.5	4854.4	4498.4	4091.8	3664.1	3204.4
37.5°	6711.7	6531.0	6315.8	6063.4	5787.0	5500.1	5157.3	4801.3	4434.6	3969.6	3499.3
35°	6956.1	6788.7	6568.2	6329.1	6058.1	5755.2	5433.7	5085.6	4689.7	4253.9	3796.9
32.5°	7168.7	6998.7	6796.7	6557.6	6294.5	6010.2	5680.8	5330.0	4955.4	4511.7	4014.8
30°	7349.4	7184.6	6993.3	6767.5	6515.1	6233.4	5911.9	5558.5	5175.9	4734.9	4243.3
27.5°	7506.1	7349.4	7163.4	6953.5	6711.7	6440.7	6116.5	5760.5	5369.9	4944.8	4453.2
25°	7641.7	7490.2	7317.5	7118.2	6879.1	6613.4	6307.8	5935.8	5545.2	5117.5	4631.2
22.5°	7763.9	7617.7	7445.0	7251.1	7033.2	6767.5	6459.3	6089.9	5694.0	5271.6	4793.3
20°	7872.8	7737.3	7567.3	7368.0	7150.1	6881.7	6576.2	6225.5	5826.9	5412.4	4939.4
17.5°	7960.5	7840.9	7670.9	7461.0	7243.1	6982.7	6685.1	6363.6	5941.1	5532.0	5061.7
15°	8021.6	7904.7	7750.6	7538.0	7325.5	7067.7	6770.1	6438.0	6044.8	5627.6	5162.6
12.5°	8064.1	7939.2	7795.8	7599.1	7386.6	7131.5	6841.9	6515.1	6132.5	5712.6	5250.3
10°	8074.8	7960.5	7817.0	7641.7	7434.4	7187.3	6903.0	6578.8	6204.2	5779.1	5322.1
7.5°	8080.1	7971.1	7840.9	7673.5	7468.9	7229.8	6948.2	6629.3	6257.3	5834.9	5375.2
5°	8077.4	7973.8	7856.9	7694.8	7490.2	7253.7	6977.4	6663.9	6294.5	5872.1	5415.1
2.5°	8069.4	7976.4	7867.5	7710.7	7514.1	7280.3	7006.6	6703.7	6334.4	5904.0	5446.9
0°	8090.7	8011.0	7872.8	7705.4	7519.4	7280.3	7004.0	6709.0	6339.7	5901.3	5444.3



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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°	66.4	63.8	63.8	61.1	58.5	55.8	50.5	47.8	42.5	34.5	26.6
85°	143.5	135.5	127.5	122.2	116.9	111.6	103.6	95.7	85.0	69.1	53.1
82.5°	252.4	236.5	220.5	201.9	186.0	170.1	156.8	143.5	127.5	103.6	79.7
80°	361.4	337.4	313.5	287.0	263.0	236.5	212.6	191.3	170.1	138.2	106.3
77.5°	470.3	438.4	403.9	372.0	337.4	302.9	268.4	239.1	207.2	170.1	132.9
75°	571.3	534.1	502.2	457.0	414.5	369.3	324.2	284.3	244.4	199.3	159.4
72.5°	672.2	624.4	579.2	536.7	488.9	433.1	382.6	332.1	281.6	228.5	180.7
70°	773.2	714.7	658.9	608.5	555.3	499.5	438.4	380.0	318.8	255.1	199.3
67.5°	876.8	810.4	746.6	682.9	621.7	558.0	494.2	427.8	356.0	281.6	220.5
65°	991.1	908.7	831.7	759.9	688.2	619.1	547.4	475.6	395.9	310.9	239.1
62.5°	1105.3	1015.0	924.7	834.3	754.6	677.5	600.5	520.8	433.1	342.8	257.7
60°	1227.6	1123.9	1020.3	919.3	821.0	736.0	651.0	566.0	473.0	372.0	276.3
57.5°	1363.1	1238.2	1121.3	1007.0	895.4	794.5	701.5	611.1	507.5	401.2	297.6
55°	1517.2	1363.1	1224.9	1097.4	975.1	852.9	751.9	658.9	547.4	430.4	321.5
52.5°	1679.3	1501.2	1333.8	1190.4	1060.2	922.0	799.8	696.1	587.2	459.7	342.8
50°	1867.9	1642.1	1456.1	1280.7	1134.6	991.1	850.3	738.7	627.1	494.2	364.0
47.5°	2061.9	1812.1	1578.3	1387.0	1214.3	1057.5	908.7	775.9	664.3	526.1	385.3
45°	2287.7	1974.2	1716.4	1490.6	1291.3	1126.6	967.2	815.7	696.1	558.0	406.5
42.5°	2505.6	2165.5	1859.9	1604.9	1379.0	1193.0	1020.3	858.2	728.0	589.9	425.1
40°	2763.3	2356.8	1998.1	1713.8	1466.7	1256.8	1073.4	903.4	757.3	619.1	443.7
37.5°	3010.4	2550.8	2165.5	1833.4	1551.7	1320.6	1126.6	945.9	783.8	648.3	467.6
35°	3254.9	2766.0	2324.9	1945.0	1639.4	1392.3	1179.7	985.8	810.4	672.2	488.9
32.5°	3488.7	2967.9	2487.0	2069.8	1735.0	1458.7	1227.6	1023.0	837.0	693.5	510.2
30°	3706.6	3159.2	2646.4	2197.4	1822.7	1519.8	1272.7	1060.2	868.9	712.1	531.4
27.5°	3905.9	3345.2	2805.8	2316.9	1905.1	1575.6	1320.6	1094.7	895.4	730.7	550.0
25°	4086.5	3512.6	2952.0	2425.9	1979.5	1636.7	1365.7	1129.2	919.3	746.6	566.0
22.5°	4256.6	3666.7	3084.8	2534.8	2069.8	1697.9	1408.2	1161.1	943.3	762.6	581.9
20°	4405.4	3807.5	3212.4	2643.8	2149.5	1753.6	1445.4	1190.4	964.5	773.2	597.8
17.5°	4524.9	3932.4	3326.6	2739.4	2218.6	1801.5	1477.3	1216.9	983.1	786.5	608.5
15°	4631.2	4038.7	3422.3	2821.8	2279.7	1841.3	1506.5	1238.2	999.0	794.5	621.7
12.5°	4721.6	4129.0	3504.6	2893.5	2332.9	1875.9	1530.5	1254.1	1012.3	802.4	629.7
10°	4796.0	4200.8	3573.7	2949.3	2375.4	1902.4	1549.1	1270.1	1023.0	810.4	637.7
7.5°	4851.8	4253.9	3624.2	2997.1	2409.9	1921.0	1565.0	1280.7	1033.6	815.7	651.0
5°	4894.3	4299.1	3664.1	3029.0	2436.5	1947.6	1583.6	1294.0	1044.2	821.0	651.0
2.5°	4926.2	4336.3	3695.9	3055.6	2457.8	1942.3	1583.6	1291.3	1044.2	821.0	648.3
0°	4920.8	4339.0	3693.3	3055.6	2457.8	1937.0	1583.6	1288.7	1044.2	821.0	648.3



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.6	13.3	5.3	0.0
85°	39.9	26.6	13.3	0.0
82.5°	58.5	37.2	18.6	0.0
80°	77.1	50.5	23.9	0.0
77.5°	98.3	63.8	31.9	0.0
75°	116.9	74.4	37.2	0.0
72.5°	135.5	87.7	42.5	0.0
70°	151.5	98.3	47.8	0.0
67.5°	167.4	111.6	55.8	0.0
65°	180.7	122.2	61.1	0.0
62.5°	191.3	135.5	66.4	0.0
60°	204.6	146.1	71.7	0.0
57.5°	215.2	154.1	77.1	0.0
55°	225.8	159.4	82.4	0.0
52.5°	236.5	167.4	87.7	0.0
50°	247.1	175.4	93.0	0.0
47.5°	257.7	180.7	95.7	0.0
45°	273.7	188.7	101.0	0.0
42.5°	287.0	194.0	106.3	0.0
40°	300.2	199.3	108.9	0.0
37.5°	313.5	204.6	114.3	0.0
35°	326.8	209.9	116.9	0.0
32.5°	337.4	215.2	119.6	0.0
30°	348.1	220.5	122.2	0.0
27.5°	358.7	223.2	124.9	0.0
25°	366.7	228.5	127.5	0.0
22.5°	374.6	231.2	130.2	0.0
20°	380.0	233.8	132.9	0.0
17.5°	387.9	236.5	135.5	0.0
15°	390.6	239.1	140.8	0.0
12.5°	395.9	241.8	140.8	0.0
10°	398.6	244.4	140.8	0.0
7.5°	403.9	244.4	140.8	0.0
5°	401.2	244.4	140.8	0.0
2.5°	401.2	244.4	140.8	0.0
0°	398.6	244.4	140.8	0.0

(END OF REPORT)