

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: P628286

Luminaire Tested: **IFLD-L-SA7A-740-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628286
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

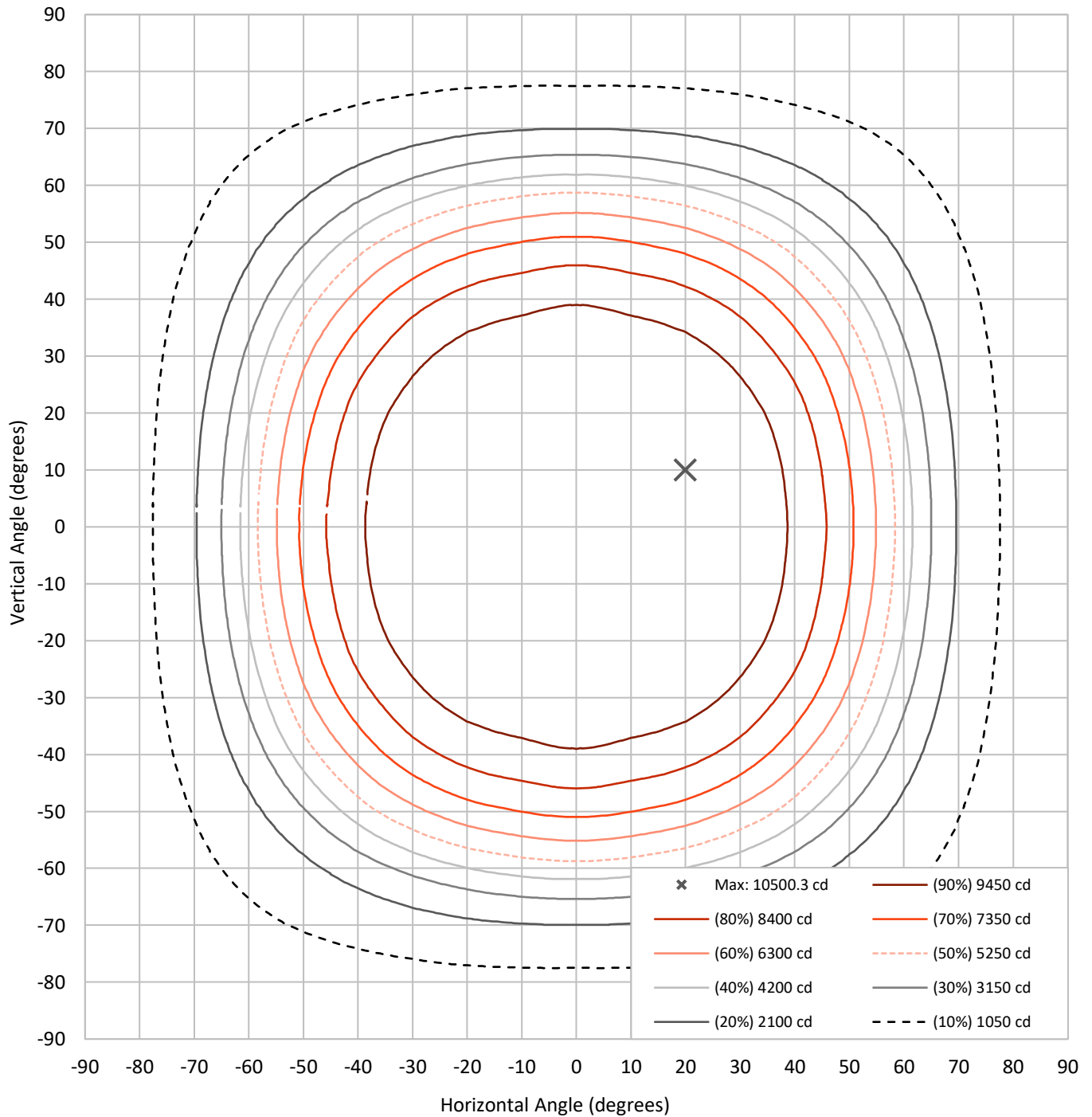
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	32213.6 lumens	Max Intensity:	10500.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	148.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	19766.9 lumens	Field Lumens:	23697.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 217.6
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



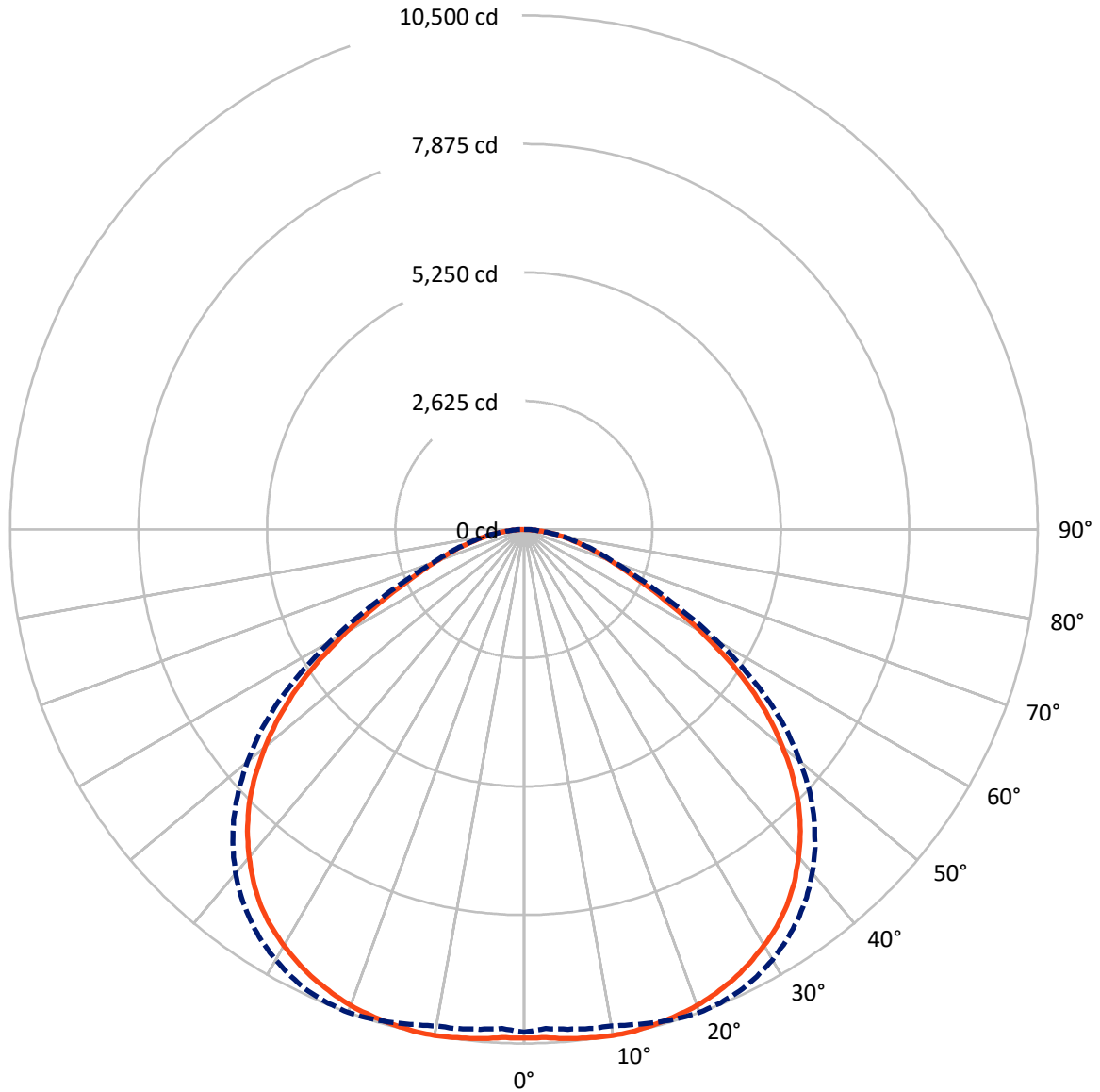
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Iso-Candela Plot



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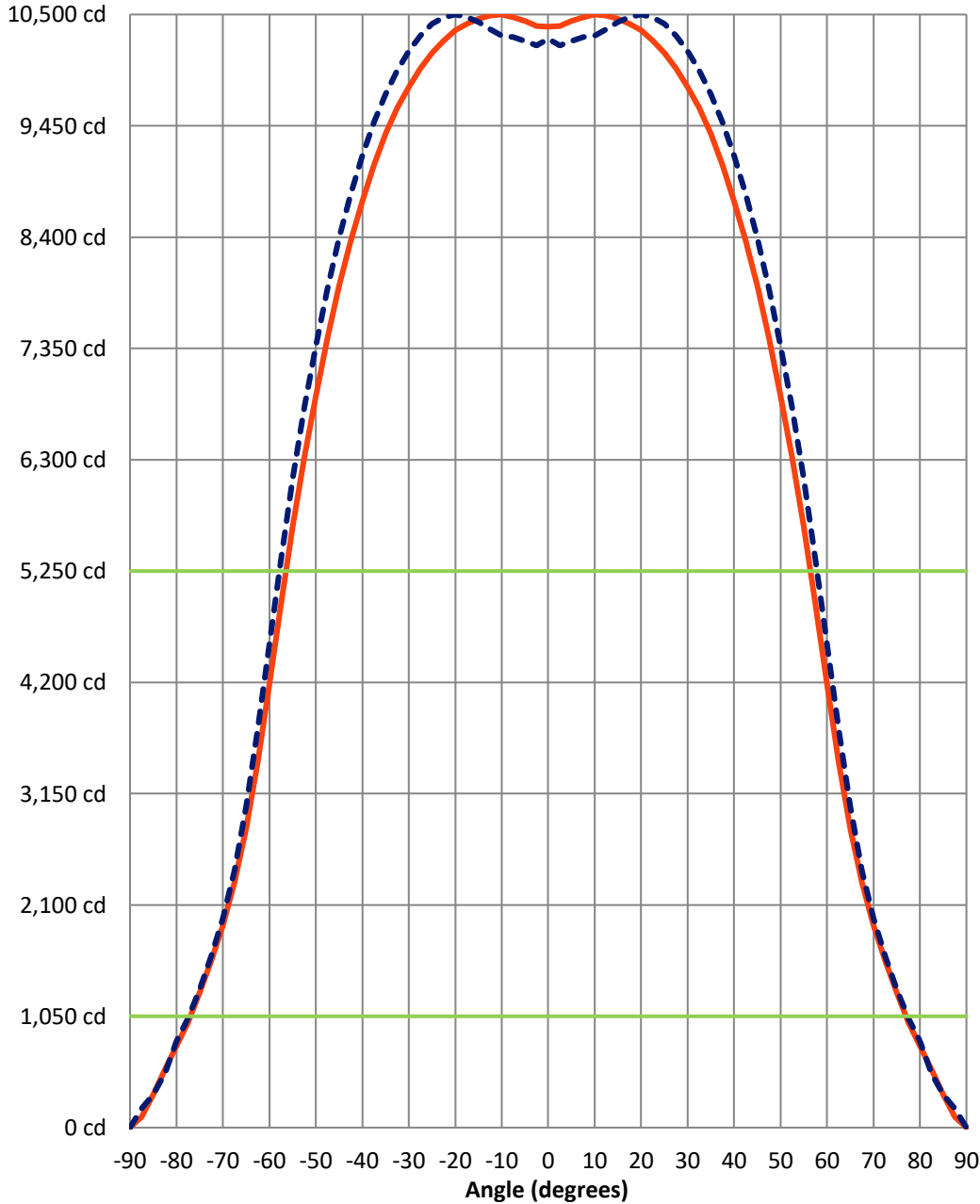
Luminous Intensity Polar Plot



— 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: 19766.9
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 23697.2
Efficiency: 73.6%

Spill:
Lumens: 8516.4
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°	84.7	91.5	94.9	98.3	101.7	105.1	108.5	105.1	101.7	101.7	98.3
85°	227.1	233.9	237.3	261.0	284.7	298.3	315.2	311.8	311.8	308.4	305.0
82.5°	454.2	474.5	491.5	515.2	528.7	549.1	562.6	552.5	545.7	532.1	522.0
80°	806.7	813.5	816.8	820.2	803.3	799.9	793.1	782.9	769.4	752.4	735.5
77.5°	1027.0	1033.8	1040.5	1033.8	1030.4	1027.0	1016.8	1006.6	993.1	979.5	959.2
75°	1359.1	1359.1	1359.1	1349.0	1342.2	1332.0	1315.1	1298.1	1274.4	1247.3	1216.8
72.5°	1711.6	1708.3	1704.9	1684.5	1667.6	1647.2	1623.5	1603.2	1576.1	1545.6	1504.9
70°	2081.1	2087.9	2091.3	2064.1	2043.8	2016.7	1986.2	1948.9	1908.2	1864.2	1806.5
67.5°	2589.5	2582.7	2575.9	2538.7	2511.5	2474.3	2430.2	2376.0	2315.0	2247.2	2165.8
65°	3219.9	3230.1	3209.8	3172.5	3121.6	3060.6	2992.8	2914.9	2823.4	2721.7	2606.4
62.5°	3982.5	3999.5	3975.8	3928.3	3863.9	3782.6	3687.7	3575.8	3450.4	3308.0	3165.7
60°	4850.2	4846.8	4802.8	4738.4	4653.6	4552.0	4446.9	4324.9	4182.5	4016.4	3843.6
57.5°	5646.7	5639.9	5585.7	5521.3	5436.6	5328.1	5216.3	5087.5	4938.3	4762.1	4562.1
55°	6361.9	6355.1	6300.9	6233.1	6145.0	6036.5	5934.8	5812.8	5667.1	5480.6	5267.1
52.5°	6995.7	6999.1	6951.6	6877.1	6782.2	6677.1	6578.8	6456.8	6317.8	6131.4	5924.7
50°	7578.7	7575.3	7524.4	7456.7	7368.5	7266.9	7168.6	7046.5	6900.8	6721.2	6521.2
47.5°	8121.0	8114.2	8056.6	7982.0	7890.5	7802.4	7710.9	7602.4	7449.9	7270.2	7070.3
45°	8575.2	8561.6	8504.0	8432.8	8344.7	8266.7	8185.4	8104.0	7941.3	7775.3	7585.5
42.5°	8964.9	8961.5	8903.9	8832.8	8744.6	8676.8	8602.3	8500.6	8365.0	8212.5	8026.1
40°	9337.8	9310.7	9253.0	9185.2	9103.9	9046.3	8971.7	8870.0	8737.9	8588.7	8409.1
37.5°	9615.7	9619.1	9558.1	9483.5	9412.3	9358.1	9290.3	9195.4	9080.2	8934.4	8754.8
35°	9880.1	9863.1	9812.3	9747.9	9683.5	9622.5	9551.3	9470.0	9375.1	9239.5	9070.0
32.5°	10052.9	10076.7	10015.7	9947.9	9910.6	9863.1	9788.6	9703.8	9619.1	9483.5	9331.0
30°	10242.7	10222.4	10175.0	10117.3	10090.2	10059.7	9995.3	9914.0	9815.7	9693.7	9551.3
27.5°	10374.9	10364.8	10307.1	10252.9	10239.4	10212.2	10161.4	10090.2	9991.9	9873.3	9741.1
25°	10432.5	10439.3	10385.1	10354.6	10354.6	10337.6	10297.0	10236.0	10137.7	10029.2	9900.4
22.5°	10459.7	10452.9	10415.6	10408.8	10425.8	10412.2	10395.3	10341.0	10252.9	10164.8	10056.3
20°	10476.6	10429.2	10395.3	10422.4	10442.7	10439.3	10425.8	10391.9	10351.2	10276.6	10181.7
17.5°	10439.3	10408.8	10368.1	10408.8	10452.9	10456.3	10442.7	10422.4	10412.2	10364.8	10280.0
15°	10347.8	10324.1	10330.9	10371.5	10422.4	10439.3	10449.5	10473.2	10459.7	10422.4	10347.8
12.5°	10286.8	10256.3	10286.8	10327.5	10354.6	10364.8	10446.1	10490.2	10490.2	10456.3	10408.8
10°	10269.9	10208.8	10249.5	10286.8	10300.4	10361.4	10429.2	10476.6	10500.3	10473.2	10412.2
7.5°	10236.0	10195.3	10212.2	10229.2	10307.1	10351.2	10388.5	10439.3	10473.2	10469.8	10415.6
5°	10219.0	10168.2	10175.0	10246.1	10300.4	10330.9	10344.4	10388.5	10439.3	10449.5	10408.8
2.5°	10175.0	10151.2	10202.1	10208.8	10249.5	10273.2	10286.8	10327.5	10391.9	10415.6	10398.7
0°	10151.2	10117.3	10083.4	10110.6	10178.3	10229.2	10249.5	10310.5	10385.1	10408.8	10371.5



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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°	94.9	91.5	88.1	84.7	88.1	88.1	88.1	84.7	88.1	84.7	84.7
85°	294.9	281.3	271.2	257.6	244.0	233.9	220.3	206.8	203.4	200.0	193.2
82.5°	508.4	491.5	474.5	454.2	433.8	410.1	386.4	359.3	352.5	345.7	335.5
80°	715.2	691.4	667.7	644.0	623.6	599.9	572.8	542.3	522.0	505.0	484.7
77.5°	932.1	898.2	864.3	823.6	799.9	776.2	749.1	718.6	688.0	660.9	630.4
75°	1179.5	1142.2	1108.3	1067.7	1023.6	979.5	935.5	894.8	850.7	810.1	769.4
72.5°	1454.0	1399.8	1345.6	1294.7	1240.5	1186.3	1128.7	1074.4	1020.2	966.0	908.4
70°	1742.1	1674.4	1606.6	1538.8	1467.6	1396.4	1328.6	1260.9	1193.1	1121.9	1057.5
67.5°	2081.1	2003.1	1915.0	1820.1	1715.0	1623.5	1535.4	1454.0	1372.7	1291.4	1210.0
65°	2504.8	2396.3	2277.7	2148.9	2026.9	1904.8	1776.0	1654.0	1559.1	1464.2	1372.7
62.5°	3026.7	2874.2	2708.1	2542.0	2392.9	2233.6	2084.5	1925.2	1776.0	1640.5	1528.6
60°	3650.4	3443.6	3240.3	3026.7	2820.0	2603.1	2413.2	2216.7	2030.2	1864.2	1701.5
57.5°	4338.4	4097.8	3853.7	3592.8	3311.4	3057.2	2799.6	2542.0	2321.7	2101.4	1918.4
55°	5036.6	4782.4	4507.9	4213.0	3904.6	3579.2	3230.1	2942.0	2640.3	2382.7	2145.5
52.5°	5701.0	5436.6	5151.9	4880.7	4511.3	4138.4	3755.4	3375.8	3023.3	2694.6	2406.5
50°	6294.1	6036.5	5762.0	5446.8	5104.4	4707.9	4280.8	3853.7	3436.8	3050.5	2691.2
47.5°	6836.4	6585.6	6311.0	5995.8	5684.0	5243.4	4812.9	4341.8	3877.5	3433.5	3013.2
45°	7344.8	7090.6	6805.9	6504.2	6145.0	5751.8	5307.8	4833.3	4335.0	3836.8	3352.1
42.5°	7805.8	7551.6	7263.5	6951.6	6595.8	6206.0	5775.5	5297.6	4796.0	4253.7	3721.6
40°	8209.1	7961.7	7683.7	7358.4	7026.2	6616.1	6192.4	5738.2	5219.7	4674.0	4087.6
37.5°	8561.6	8331.1	8056.6	7734.6	7382.1	7016.0	6578.8	6124.6	5656.9	5063.8	4463.8
35°	8873.4	8659.9	8378.6	8073.5	7727.8	7341.4	6931.3	6487.3	5982.3	5426.4	4843.4
32.5°	9144.6	8927.7	8670.1	8365.0	8029.5	7666.8	7246.5	6799.1	6321.2	5755.2	5121.4
30°	9375.1	9164.9	8920.9	8632.8	8310.8	7951.5	7541.4	7090.6	6602.5	6039.9	5412.9
27.5°	9575.0	9375.1	9137.8	8870.0	8561.6	8215.9	7802.4	7348.2	6850.0	6307.7	5680.6
25°	9747.9	9554.7	9334.4	9080.2	8775.1	8436.2	8046.4	7571.9	7073.7	6528.0	5907.7
22.5°	9903.8	9717.4	9497.1	9249.6	8971.7	8632.8	8239.6	7768.5	7263.5	6724.6	6114.5
20°	10042.8	9869.9	9653.0	9398.8	9120.9	8778.5	8388.7	7941.3	7432.9	6904.2	6300.9
17.5°	10154.6	10002.1	9785.2	9517.4	9239.5	8907.3	8527.7	8117.6	7578.7	7056.7	6456.8
15°	10232.6	10083.4	9886.9	9615.7	9344.6	9015.8	8636.2	8212.5	7710.9	7178.7	6585.6
12.5°	10286.8	10127.5	9944.5	9693.7	9422.5	9097.1	8727.7	8310.8	7822.7	7287.2	6697.4
10°	10300.4	10154.6	9971.6	9747.9	9483.5	9168.3	8805.6	8392.1	7914.2	7371.9	6789.0
7.5°	10307.1	10168.2	10002.1	9788.6	9527.6	9222.5	8863.3	8456.5	7982.0	7443.1	6856.7
5°	10303.7	10171.6	10022.4	9815.7	9554.7	9253.0	8900.5	8500.6	8029.5	7490.6	6907.6
2.5°	10293.6	10175.0	10036.0	9836.0	9585.2	9286.9	8937.8	8551.4	8080.3	7531.2	6948.3
0°	10320.7	10219.0	10042.8	9829.2	9592.0	9286.9	8934.4	8558.2	8087.1	7527.8	6944.9



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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°	84.7	81.3	81.3	78.0	74.6	71.2	64.4	61.0	54.2	44.1	33.9
85°	183.0	172.9	162.7	155.9	149.1	142.4	132.2	122.0	108.5	88.1	67.8
82.5°	322.0	301.7	281.3	257.6	237.3	216.9	200.0	183.0	162.7	132.2	101.7
80°	461.0	430.5	399.9	366.1	335.5	301.7	271.2	244.0	216.9	176.2	135.6
77.5°	599.9	559.2	515.2	474.5	430.5	386.4	342.3	305.0	264.4	216.9	169.5
75°	728.7	681.3	640.6	583.0	528.7	471.1	413.5	362.7	311.8	254.2	203.4
72.5°	857.5	796.5	738.9	684.7	623.6	552.5	488.1	423.7	359.3	291.5	230.5
70°	986.3	911.7	840.6	776.2	708.4	637.2	559.2	484.7	406.7	325.4	254.2
67.5°	1118.5	1033.8	952.4	871.1	793.1	711.8	630.4	545.7	454.2	359.3	281.3
65°	1264.2	1159.2	1060.9	969.4	877.9	789.7	698.2	606.7	505.0	396.6	305.0
62.5°	1410.0	1294.7	1179.5	1064.3	962.6	864.3	766.0	664.3	552.5	437.2	328.8
60°	1565.9	1433.7	1301.5	1172.7	1047.3	938.9	830.4	721.9	603.3	474.5	352.5
57.5°	1738.8	1579.5	1430.3	1284.6	1142.2	1013.4	894.8	779.6	647.4	511.8	379.6
55°	1935.3	1738.8	1562.5	1399.8	1243.9	1088.0	959.2	840.6	698.2	549.1	410.1
52.5°	2142.1	1915.0	1701.5	1518.4	1352.4	1176.1	1020.2	888.0	749.1	586.4	437.2
50°	2382.7	2094.6	1857.4	1633.7	1447.3	1264.2	1084.6	942.3	799.9	630.4	464.3
47.5°	2630.2	2311.6	2013.3	1769.3	1549.0	1349.0	1159.2	989.7	847.3	671.1	491.5
45°	2918.3	2518.3	2189.5	1901.4	1647.2	1437.1	1233.7	1040.5	888.0	711.8	518.6
42.5°	3196.2	2762.4	2372.6	2047.2	1759.1	1521.8	1301.5	1094.8	928.7	752.4	542.3
40°	3525.0	3006.4	2548.8	2186.2	1870.9	1603.2	1369.3	1152.4	966.0	789.7	566.0
37.5°	3840.2	3253.8	2762.4	2338.7	1979.4	1684.5	1437.1	1206.6	999.9	827.0	596.5
35°	4152.0	3528.4	2965.7	2481.0	2091.3	1776.0	1504.9	1257.5	1033.8	857.5	623.6
32.5°	4450.3	3785.9	3172.5	2640.3	2213.3	1860.8	1565.9	1304.9	1067.7	884.6	650.8
30°	4728.2	4030.0	3375.8	2803.0	2325.1	1938.7	1623.5	1352.4	1108.3	908.4	677.9
27.5°	4982.4	4267.2	3579.2	2955.5	2430.2	2009.9	1684.5	1396.4	1142.2	932.1	701.6
25°	5212.9	4480.8	3765.6	3094.5	2525.1	2087.9	1742.1	1440.5	1172.7	952.4	721.9
22.5°	5429.8	4677.4	3935.1	3233.5	2640.3	2165.8	1796.4	1481.2	1203.2	972.8	742.3
20°	5619.6	4857.0	4097.8	3372.4	2742.0	2237.0	1843.8	1518.4	1230.3	986.3	762.6
17.5°	5772.1	5016.3	4243.5	3494.5	2830.1	2298.0	1884.5	1552.3	1254.1	1003.3	776.2
15°	5907.7	5151.9	4365.5	3599.5	2908.1	2348.8	1921.8	1579.5	1274.4	1013.4	793.1
12.5°	6022.9	5267.1	4470.6	3691.0	2975.9	2392.9	1952.3	1599.8	1291.4	1023.6	803.3
10°	6117.9	5358.6	4558.7	3762.2	3030.1	2426.8	1976.0	1620.1	1304.9	1033.8	813.5
7.5°	6189.0	5426.4	4623.1	3823.2	3074.2	2450.5	1996.4	1633.7	1318.5	1040.5	830.4
5°	6243.3	5484.0	4674.0	3863.9	3108.1	2484.4	2020.1	1650.6	1332.0	1047.3	830.4
2.5°	6283.9	5531.5	4714.6	3897.8	3135.2	2477.6	2020.1	1647.2	1332.0	1047.3	827.0
0°	6277.2	5534.9	4711.3	3897.8	3135.2	2470.9	2020.1	1643.9	1332.0	1047.3	827.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	23.7	16.9	6.8	0.0
85°	50.8	33.9	16.9	0.0
82.5°	74.6	47.5	23.7	0.0
80°	98.3	64.4	30.5	0.0
77.5°	125.4	81.3	40.7	0.0
75°	149.1	94.9	47.5	0.0
72.5°	172.9	111.8	54.2	0.0
70°	193.2	125.4	61.0	0.0
67.5°	213.5	142.4	71.2	0.0
65°	230.5	155.9	78.0	0.0
62.5°	244.0	172.9	84.7	0.0
60°	261.0	186.4	91.5	0.0
57.5°	274.5	196.6	98.3	0.0
55°	288.1	203.4	105.1	0.0
52.5°	301.7	213.5	111.8	0.0
50°	315.2	223.7	118.6	0.0
47.5°	328.8	230.5	122.0	0.0
45°	349.1	240.6	128.8	0.0
42.5°	366.1	247.4	135.6	0.0
40°	383.0	254.2	139.0	0.0
37.5°	399.9	261.0	145.7	0.0
35°	416.9	267.8	149.1	0.0
32.5°	430.5	274.5	152.5	0.0
30°	444.0	281.3	155.9	0.0
27.5°	457.6	284.7	159.3	0.0
25°	467.7	291.5	162.7	0.0
22.5°	477.9	294.9	166.1	0.0
20°	484.7	298.3	169.5	0.0
17.5°	494.9	301.7	172.9	0.0
15°	498.2	305.0	179.6	0.0
12.5°	505.0	308.4	179.6	0.0
10°	508.4	311.8	179.6	0.0
7.5°	515.2	311.8	179.6	0.0
5°	511.8	311.8	179.6	0.0
2.5°	511.8	311.8	179.6	0.0
0°	508.4	311.8	179.6	0.0

(END OF REPORT)