

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: P628363

Luminaire Tested: **IFLD-S-SA6A-827-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628363
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-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

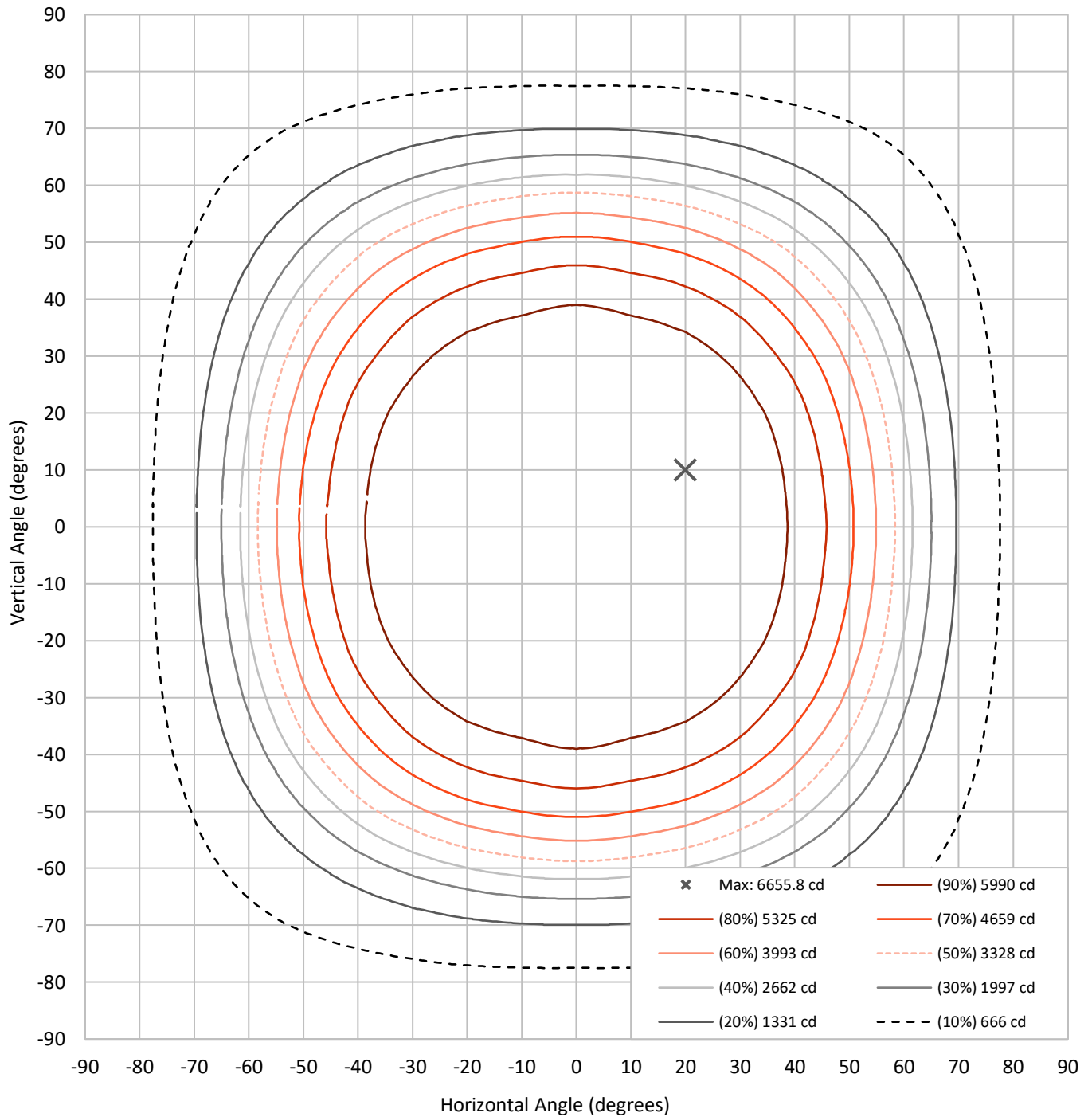
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	20419.1 lumens	Max Intensity:	6655.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	107.7 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:	12529.6 lumens	Field Lumens:	15020.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	189.6		
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		



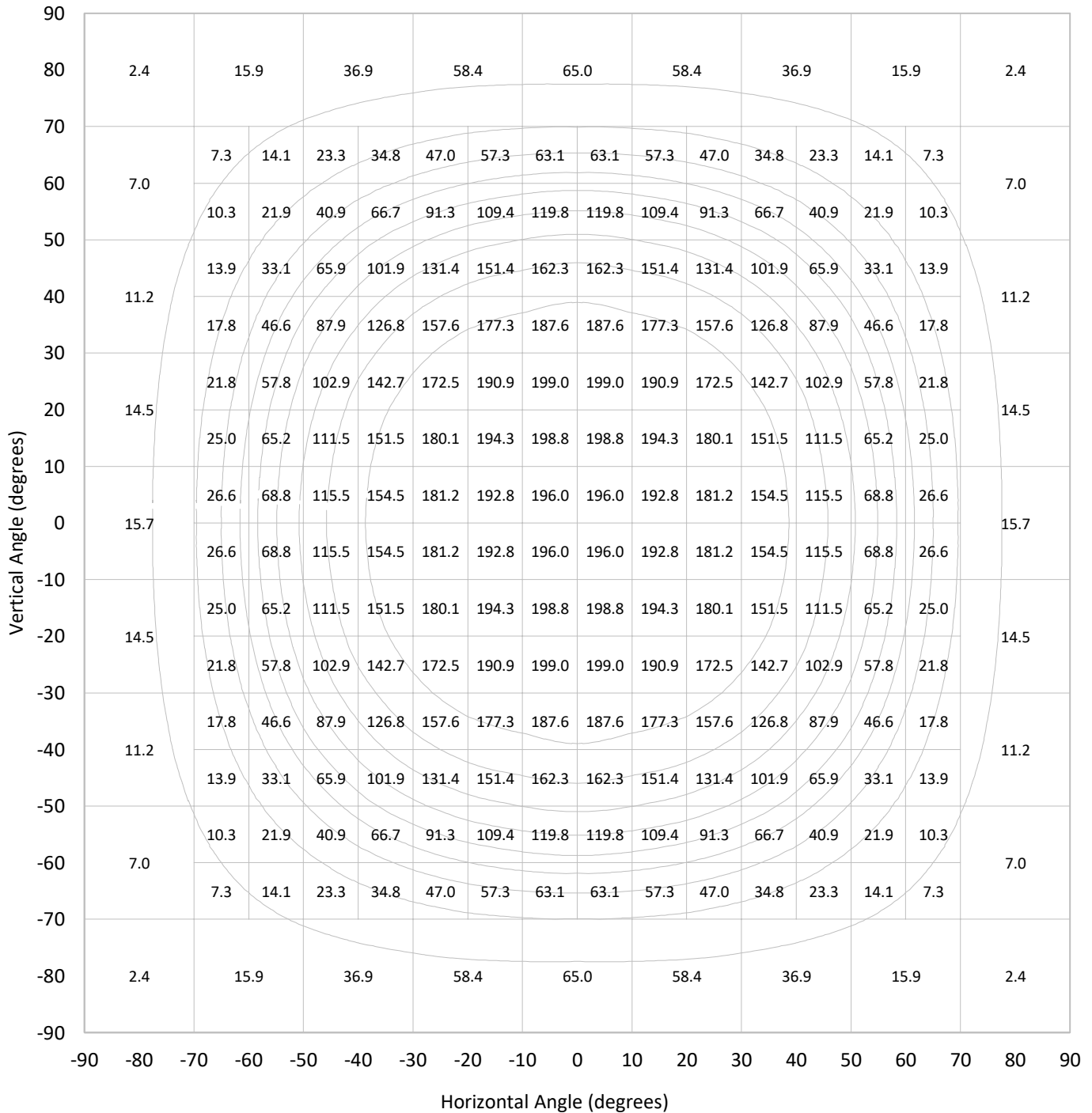
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Iso-Candela Plot



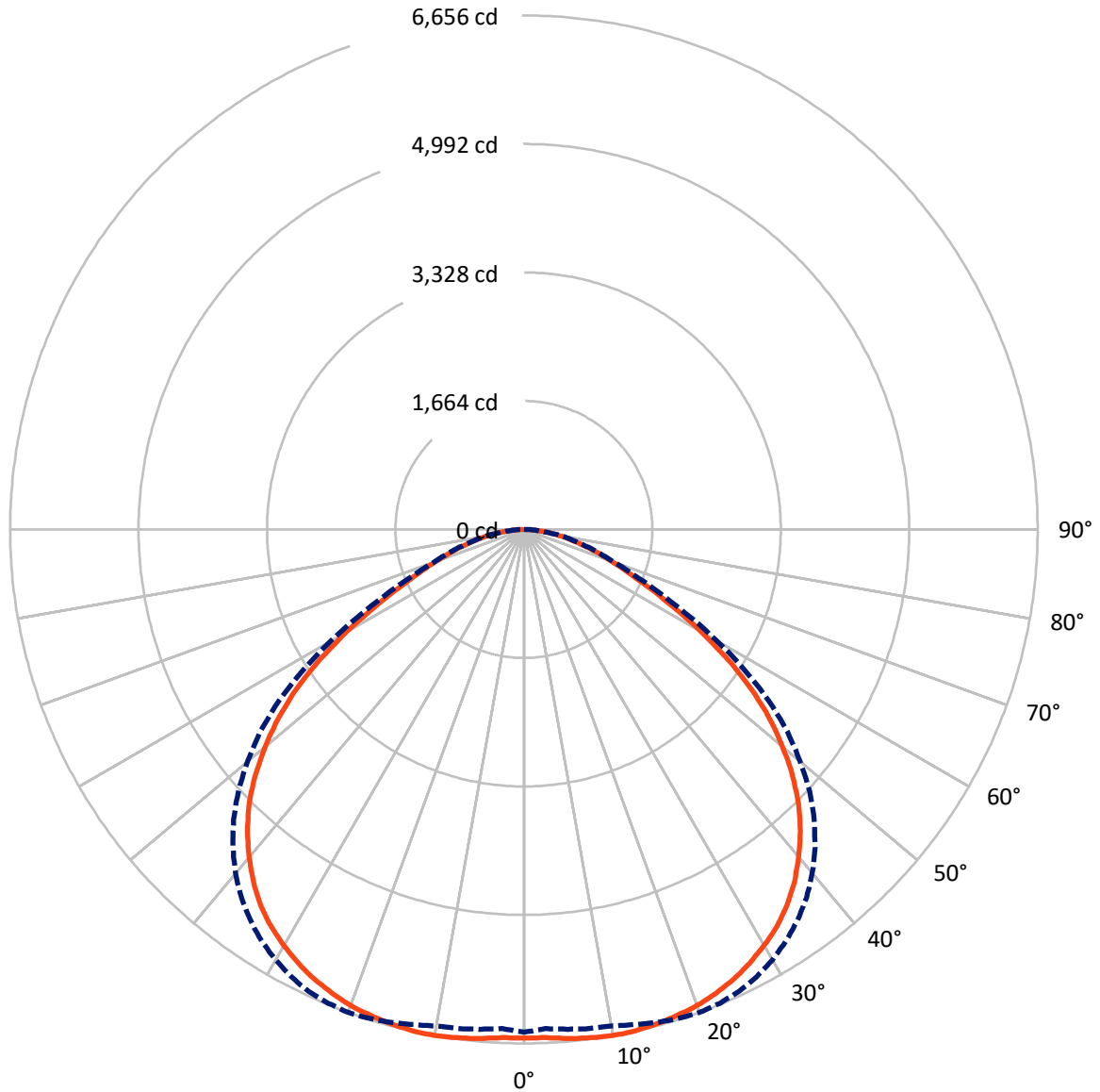
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Lumen Table



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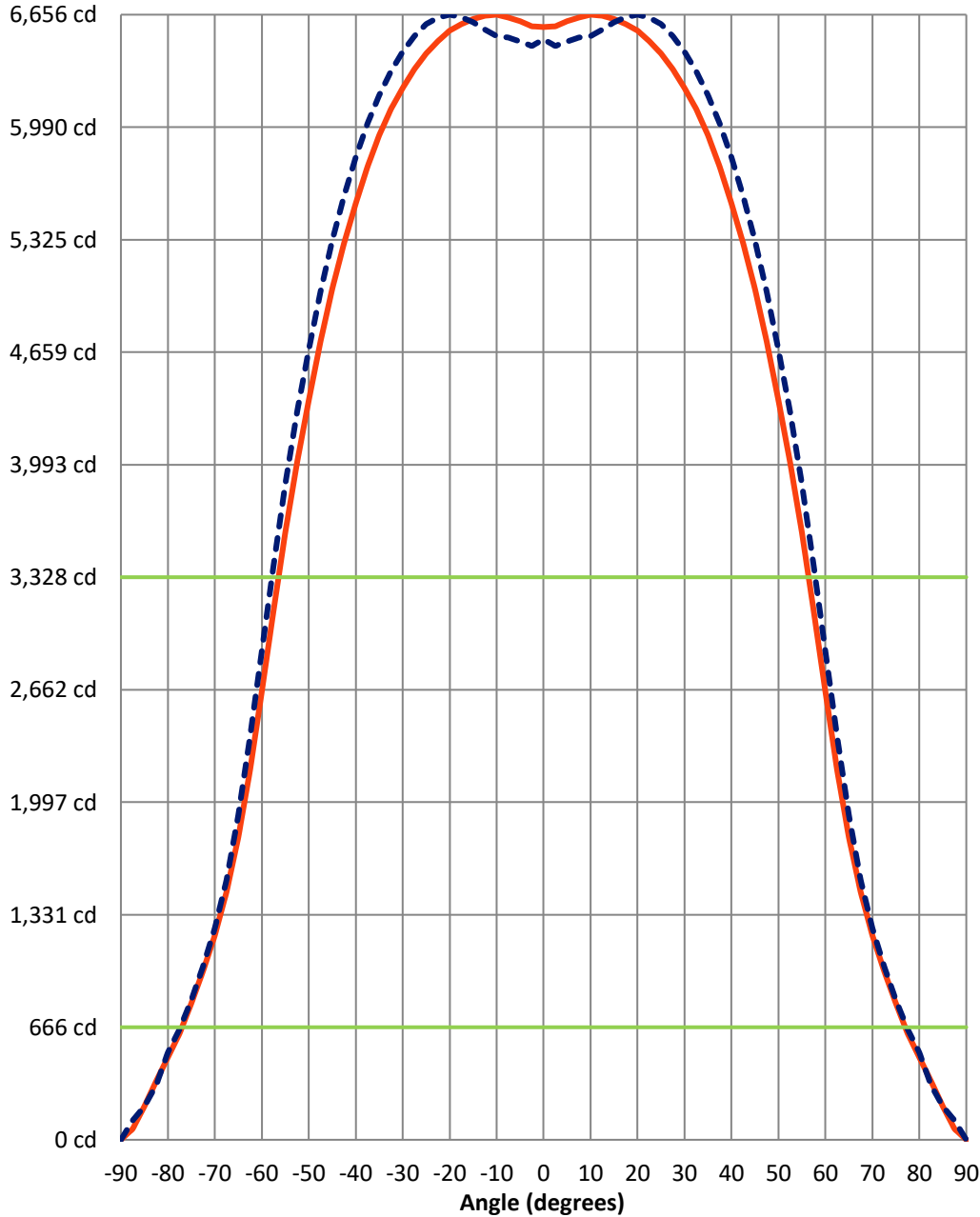
Luminous Intensity Polar Plot



— 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: 12529.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 15020.8
 Efficiency: 73.6%

Spill:
 Lumens: 5398.3
 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°	53.7	58.0	60.2	62.3	64.5	66.6	68.7	66.6	64.5	64.5	62.3
85°	143.9	148.2	150.4	165.4	180.5	189.1	199.8	197.7	197.7	195.5	193.4
82.5°	287.9	300.8	311.5	326.6	335.2	348.0	356.6	350.2	345.9	337.3	330.9
80°	511.3	515.6	517.8	519.9	509.2	507.0	502.7	496.3	487.7	476.9	466.2
77.5°	651.0	655.3	659.6	655.3	653.1	651.0	644.5	638.1	629.5	620.9	608.0
75°	861.5	861.5	861.5	855.1	850.8	844.3	833.6	822.8	807.8	790.6	771.3
72.5°	1085.0	1082.8	1080.7	1067.8	1057.0	1044.1	1029.1	1016.2	999.0	979.7	953.9
70°	1319.1	1323.4	1325.6	1308.4	1295.5	1278.3	1259.0	1235.3	1209.6	1181.6	1145.1
67.5°	1641.4	1637.1	1632.8	1609.2	1592.0	1568.3	1540.4	1506.0	1467.4	1424.4	1372.8
65°	2041.0	2047.4	2034.6	2010.9	1978.7	1940.0	1897.1	1847.6	1789.6	1725.2	1652.1
62.5°	2524.4	2535.1	2520.1	2490.0	2449.2	2397.6	2337.5	2266.6	2187.1	2096.9	2006.6
60°	3074.4	3072.2	3044.3	3003.5	2949.8	2885.3	2818.7	2741.4	2651.1	2545.9	2436.3
57.5°	3579.3	3575.0	3540.6	3499.8	3446.1	3377.3	3306.4	3224.8	3130.2	3018.5	2891.8
55°	4032.6	4028.3	3993.9	3950.9	3895.1	3826.3	3761.9	3684.5	3592.2	3474.0	3338.6
52.5°	4434.3	4436.5	4406.4	4359.1	4299.0	4232.4	4170.1	4092.7	4004.6	3886.5	3755.4
50°	4803.9	4801.7	4769.5	4726.5	4670.7	4606.2	4543.9	4466.6	4374.2	4260.3	4133.6
47.5°	5147.6	5143.3	5106.8	5059.5	5001.5	4945.7	4887.6	4818.9	4722.2	4608.4	4481.6
45°	5435.5	5426.9	5390.4	5345.3	5289.4	5240.0	5188.4	5136.9	5033.7	4928.5	4808.2
42.5°	5682.6	5680.4	5643.9	5598.8	5542.9	5499.9	5452.7	5388.2	5302.3	5205.6	5087.4
40°	5918.9	5901.7	5865.2	5822.2	5770.6	5734.1	5686.9	5622.4	5538.6	5444.1	5330.2
37.5°	6095.1	6097.2	6058.5	6011.3	5966.2	5931.8	5888.8	5828.7	5755.6	5663.2	5549.4
35°	6262.6	6251.9	6219.7	6178.8	6138.0	6099.4	6054.2	6002.7	5942.5	5856.6	5749.2
32.5°	6372.2	6387.2	6348.6	6305.6	6282.0	6251.9	6204.6	6150.9	6097.2	6011.3	5914.6
30°	6492.5	6479.6	6449.5	6413.0	6395.8	6376.5	6335.7	6284.1	6221.8	6144.5	6054.2
27.5°	6576.3	6569.9	6533.3	6499.0	6490.4	6473.2	6441.0	6395.8	6333.5	6258.3	6174.5
25°	6612.8	6617.1	6582.7	6563.4	6563.4	6552.7	6526.9	6488.2	6425.9	6357.2	6275.5
22.5°	6630.0	6625.7	6602.1	6597.8	6608.5	6599.9	6589.2	6554.8	6499.0	6443.1	6374.4
20°	6640.8	6610.7	6589.2	6606.4	6619.3	6617.1	6608.5	6587.0	6561.3	6514.0	6453.8
17.5°	6617.1	6597.8	6572.0	6597.8	6625.7	6627.9	6619.3	6606.4	6599.9	6569.9	6516.1
15°	6559.1	6544.1	6548.4	6574.2	6606.4	6617.1	6623.6	6638.6	6630.0	6606.4	6559.1
12.5°	6520.4	6501.1	6520.4	6546.2	6563.4	6569.9	6621.4	6649.3	6649.3	6627.9	6597.8
10°	6509.7	6471.0	6496.8	6520.4	6529.0	6567.7	6610.7	6640.8	6655.8	6638.6	6599.9
7.5°	6488.2	6462.4	6473.2	6483.9	6533.3	6561.3	6584.9	6617.1	6638.6	6636.5	6602.1
5°	6477.5	6445.2	6449.5	6494.7	6529.0	6548.4	6557.0	6584.9	6617.1	6623.6	6597.8
2.5°	6449.5	6434.5	6466.7	6471.0	6496.8	6511.8	6520.4	6546.2	6587.0	6602.1	6591.3
0°	6434.5	6413.0	6391.5	6408.7	6451.7	6483.9	6496.8	6535.5	6582.7	6597.8	6574.2



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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°	60.2	58.0	55.9	53.7	55.9	55.9	55.9	53.7	55.9	53.7	53.7
85°	186.9	178.3	171.9	163.3	154.7	148.2	139.6	131.1	128.9	126.8	122.5
82.5°	322.3	311.5	300.8	287.9	275.0	260.0	244.9	227.7	223.4	219.1	212.7
80°	453.3	438.3	423.2	408.2	395.3	380.3	363.1	343.7	330.9	320.1	307.2
77.5°	590.8	569.3	547.8	522.1	507.0	492.0	474.8	455.5	436.1	418.9	399.6
75°	747.6	724.0	702.5	676.8	648.8	620.9	593.0	567.2	539.3	513.5	487.7
72.5°	921.7	887.3	852.9	820.7	786.3	751.9	715.4	681.0	646.7	612.3	575.8
70°	1104.3	1061.3	1018.3	975.4	930.3	885.1	842.2	799.2	756.2	711.1	670.3
67.5°	1319.1	1269.7	1213.9	1153.7	1087.1	1029.1	973.2	921.7	870.1	818.5	767.0
65°	1587.7	1518.9	1443.7	1362.1	1284.8	1207.4	1125.8	1048.4	988.3	928.1	870.1
62.5°	1918.5	1821.9	1716.6	1611.3	1516.8	1415.8	1321.3	1220.3	1125.8	1039.8	968.9
60°	2313.8	2182.8	2053.9	1918.5	1787.5	1650.0	1529.7	1405.1	1286.9	1181.6	1078.5
57.5°	2750.0	2597.4	2442.7	2277.3	2099.0	1937.9	1774.6	1611.3	1471.7	1332.0	1216.0
55°	3192.5	3031.4	2857.4	2670.5	2475.0	2268.7	2047.4	1864.8	1673.6	1510.3	1359.9
52.5°	3613.6	3446.1	3265.6	3093.7	2859.5	2623.2	2380.4	2139.8	1916.4	1708.0	1525.4
50°	3989.6	3826.3	3652.3	3452.5	3235.5	2984.2	2713.4	2442.7	2178.5	1933.6	1705.8
47.5°	4333.4	4174.4	4000.4	3800.5	3602.9	3323.6	3050.8	2752.1	2457.8	2176.3	1909.9
45°	4655.6	4494.5	4314.0	4122.8	3895.1	3645.9	3364.4	3063.6	2747.8	2432.0	2124.8
42.5°	4947.8	4786.7	4604.1	4406.4	4180.8	3933.8	3660.9	3358.0	3040.0	2696.3	2359.0
40°	5203.5	5046.6	4870.5	4664.2	4453.7	4193.7	3925.2	3637.3	3308.6	2962.7	2591.0
37.5°	5426.9	5280.8	5106.8	4902.7	4679.3	4447.2	4170.1	3882.2	3585.7	3209.7	2829.5
35°	5624.6	5489.2	5310.9	5117.5	4898.4	4653.5	4393.5	4112.1	3792.0	3439.6	3070.1
32.5°	5796.4	5658.9	5495.6	5302.3	5089.6	4859.7	4593.3	4309.7	4006.8	3648.0	3246.3
30°	5942.5	5809.3	5654.6	5472.0	5267.9	5040.2	4780.2	4494.5	4185.1	3828.5	3431.0
27.5°	6069.3	5942.5	5792.1	5622.4	5426.9	5207.8	4945.7	4657.8	4341.9	3998.2	3600.7
25°	6178.8	6056.4	5916.7	5755.6	5562.2	5347.4	5100.3	4799.6	4483.7	4137.8	3744.7
22.5°	6277.7	6159.5	6019.9	5863.0	5686.9	5472.0	5222.8	4924.2	4604.1	4262.5	3875.7
20°	6365.8	6256.2	6118.7	5957.6	5781.4	5564.4	5317.3	5033.7	4711.5	4376.3	3993.9
17.5°	6436.7	6340.0	6202.5	6032.8	5856.6	5646.0	5405.4	5145.5	4803.9	4473.0	4092.7
15°	6486.1	6391.5	6266.9	6095.1	5923.2	5714.8	5474.2	5205.6	4887.6	4550.3	4174.4
12.5°	6520.4	6419.5	6303.5	6144.5	5972.6	5766.3	5532.2	5267.9	4958.5	4619.1	4245.3
10°	6529.0	6436.7	6320.6	6178.8	6011.3	5811.5	5581.6	5319.5	5016.6	4672.8	4303.3
7.5°	6533.3	6445.2	6340.0	6204.6	6039.2	5845.8	5618.1	5360.3	5059.5	4717.9	4346.2
5°	6531.2	6447.4	6352.9	6221.8	6056.4	5865.2	5641.7	5388.2	5089.6	4748.0	4378.5
2.5°	6524.7	6449.5	6361.5	6234.7	6075.7	5886.7	5665.4	5420.5	5121.8	4773.8	4404.3
0°	6541.9	6477.5	6365.8	6230.4	6080.0	5886.7	5663.2	5424.8	5126.1	4771.6	4402.1



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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°	53.7	51.6	51.6	49.4	47.3	45.1	40.8	38.7	34.4	27.9	21.5
85°	116.0	109.6	103.1	98.8	94.5	90.2	83.8	77.3	68.7	55.9	43.0
82.5°	204.1	191.2	178.3	163.3	150.4	137.5	126.8	116.0	103.1	83.8	64.5
80°	292.2	272.8	253.5	232.0	212.7	191.2	171.9	154.7	137.5	111.7	85.9
77.5°	380.3	354.5	326.6	300.8	272.8	244.9	217.0	193.4	167.6	137.5	107.4
75°	461.9	431.8	406.1	369.5	335.2	298.6	262.1	229.9	197.7	161.1	128.9
72.5°	543.5	504.9	468.4	434.0	395.3	350.2	309.4	268.6	227.7	184.8	146.1
70°	625.2	577.9	532.8	492.0	449.0	403.9	354.5	307.2	257.8	206.2	161.1
67.5°	709.0	655.3	603.7	552.1	502.7	451.2	399.6	345.9	287.9	227.7	178.3
65°	801.4	734.8	672.5	614.4	556.4	500.6	442.6	384.6	320.1	251.4	193.4
62.5°	893.7	820.7	747.6	674.6	610.2	547.8	485.5	421.1	350.2	277.1	208.4
60°	992.6	908.8	825.0	743.4	663.9	595.1	526.4	457.6	382.4	300.8	223.4
57.5°	1102.1	1001.2	906.6	814.2	724.0	642.4	567.2	494.1	410.3	324.4	240.6
55°	1226.7	1102.1	990.4	887.3	788.5	689.6	608.0	532.8	442.6	348.0	260.0
52.5°	1357.8	1213.9	1078.5	962.5	857.2	745.5	646.7	562.9	474.8	371.7	277.1
50°	1510.3	1327.7	1177.3	1035.5	917.4	801.4	687.5	597.3	507.0	399.6	294.3
47.5°	1667.2	1465.2	1276.2	1121.5	981.8	855.1	734.8	627.3	537.1	425.4	311.5
45°	1849.8	1596.3	1387.9	1205.3	1044.1	910.9	782.0	659.6	562.9	451.2	328.7
42.5°	2026.0	1751.0	1503.9	1297.6	1115.0	964.6	825.0	693.9	588.7	476.9	343.7
40°	2234.4	1905.6	1615.6	1385.7	1185.9	1016.2	868.0	730.5	612.3	500.6	358.8
37.5°	2434.2	2062.5	1751.0	1482.4	1254.7	1067.8	910.9	764.8	633.8	524.2	378.1
35°	2631.8	2236.5	1879.9	1572.6	1325.6	1125.8	953.9	797.1	655.3	543.5	395.3
32.5°	2820.9	2399.8	2010.9	1673.6	1402.9	1179.5	992.6	827.1	676.8	560.7	412.5
30°	2997.0	2554.5	2139.8	1776.7	1473.8	1228.9	1029.1	857.2	702.5	575.8	429.7
27.5°	3158.2	2704.9	2268.7	1873.4	1540.4	1274.0	1067.8	885.1	724.0	590.8	444.7
25°	3304.3	2840.2	2386.9	1961.5	1600.6	1323.4	1104.3	913.1	743.4	603.7	457.6
22.5°	3441.8	2964.8	2494.3	2049.6	1673.6	1372.8	1138.7	938.9	762.7	616.6	470.5
20°	3562.1	3078.7	2597.4	2137.7	1738.1	1418.0	1168.7	962.5	779.9	625.2	483.4
17.5°	3658.8	3179.7	2689.8	2215.0	1793.9	1456.6	1194.5	984.0	794.9	635.9	492.0
15°	3744.7	3265.6	2767.2	2281.6	1843.3	1488.9	1218.2	1001.2	807.8	642.4	502.7
12.5°	3817.7	3338.6	2833.8	2339.6	1886.3	1516.8	1237.5	1014.1	818.5	648.8	509.2
10°	3877.9	3396.6	2889.6	2384.7	1920.7	1538.3	1252.5	1026.9	827.1	655.3	515.6
7.5°	3923.0	3439.6	2930.4	2423.4	1948.6	1553.3	1265.4	1035.5	835.7	659.6	526.4
5°	3957.4	3476.1	2962.7	2449.2	1970.1	1574.8	1280.5	1046.3	844.3	663.9	526.4
2.5°	3983.2	3506.2	2988.4	2470.7	1987.3	1570.5	1280.5	1044.1	844.3	663.9	524.2
0°	3978.9	3508.4	2986.3	2470.7	1987.3	1566.2	1280.5	1042.0	844.3	663.9	524.2



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.0	10.7	4.3	0.0
85°	32.2	21.5	10.7	0.0
82.5°	47.3	30.1	15.0	0.0
80°	62.3	40.8	19.3	0.0
77.5°	79.5	51.6	25.8	0.0
75°	94.5	60.2	30.1	0.0
72.5°	109.6	70.9	34.4	0.0
70°	122.5	79.5	38.7	0.0
67.5°	135.4	90.2	45.1	0.0
65°	146.1	98.8	49.4	0.0
62.5°	154.7	109.6	53.7	0.0
60°	165.4	118.2	58.0	0.0
57.5°	174.0	124.6	62.3	0.0
55°	182.6	128.9	66.6	0.0
52.5°	191.2	135.4	70.9	0.0
50°	199.8	141.8	75.2	0.0
47.5°	208.4	146.1	77.3	0.0
45°	221.3	152.5	81.6	0.0
42.5°	232.0	156.8	85.9	0.0
40°	242.8	161.1	88.1	0.0
37.5°	253.5	165.4	92.4	0.0
35°	264.3	169.7	94.5	0.0
32.5°	272.8	174.0	96.7	0.0
30°	281.4	178.3	98.8	0.0
27.5°	290.0	180.5	101.0	0.0
25°	296.5	184.8	103.1	0.0
22.5°	302.9	186.9	105.3	0.0
20°	307.2	189.1	107.4	0.0
17.5°	313.7	191.2	109.6	0.0
15°	315.8	193.4	113.9	0.0
12.5°	320.1	195.5	113.9	0.0
10°	322.3	197.7	113.9	0.0
7.5°	326.6	197.7	113.9	0.0
5°	324.4	197.7	113.9	0.0
2.5°	324.4	197.7	113.9	0.0
0°	322.3	197.7	113.9	0.0

(END OF REPORT)