

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: P628421

Luminaire Tested: **IFLD-S-SA6A-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628421
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-927-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

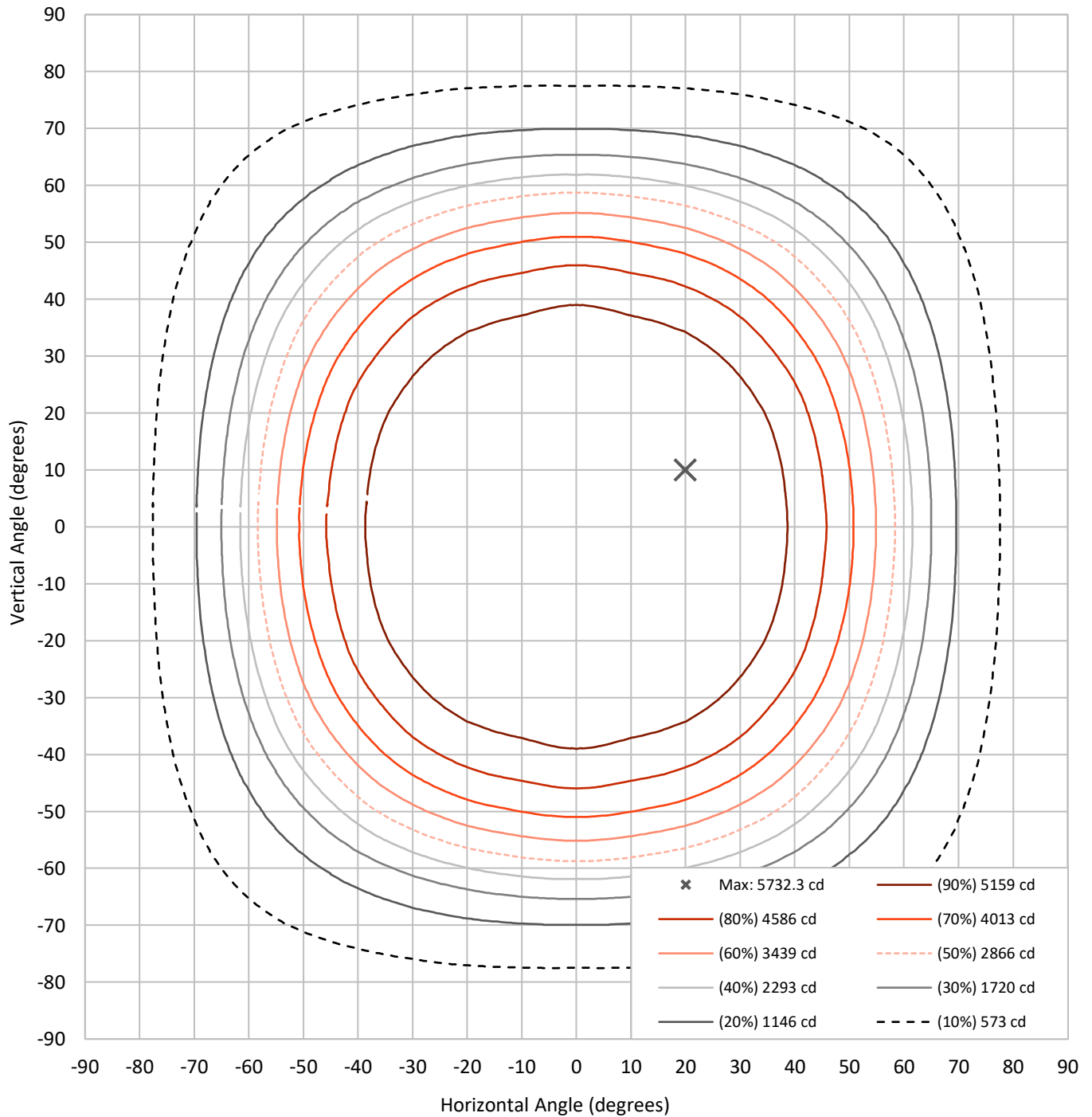
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17585.8 lumens	Max Intensity:	5732.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	92.8 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:	10791 lumens	Field Lumens:	12936.6 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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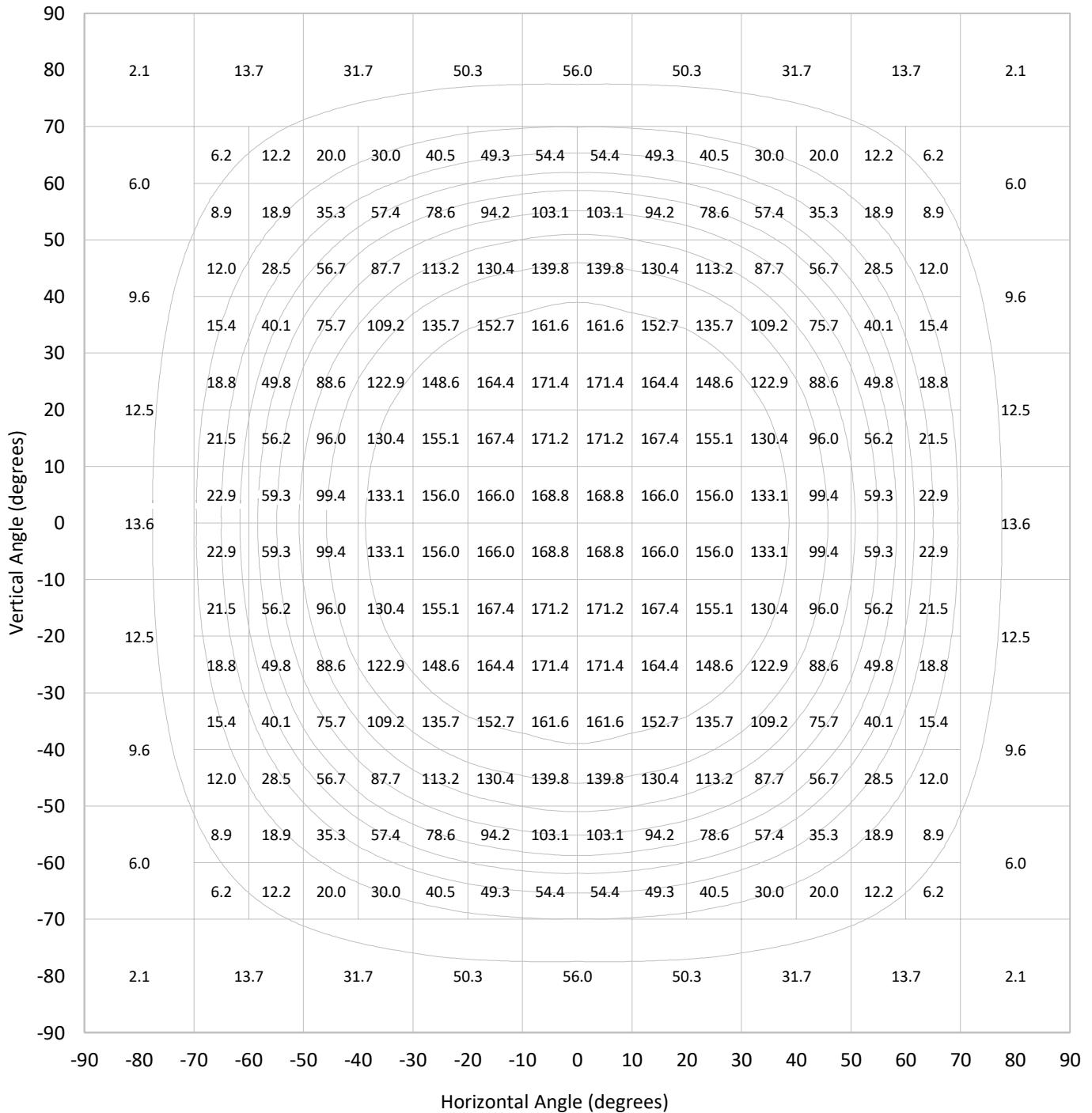
Iso-Candela Plot





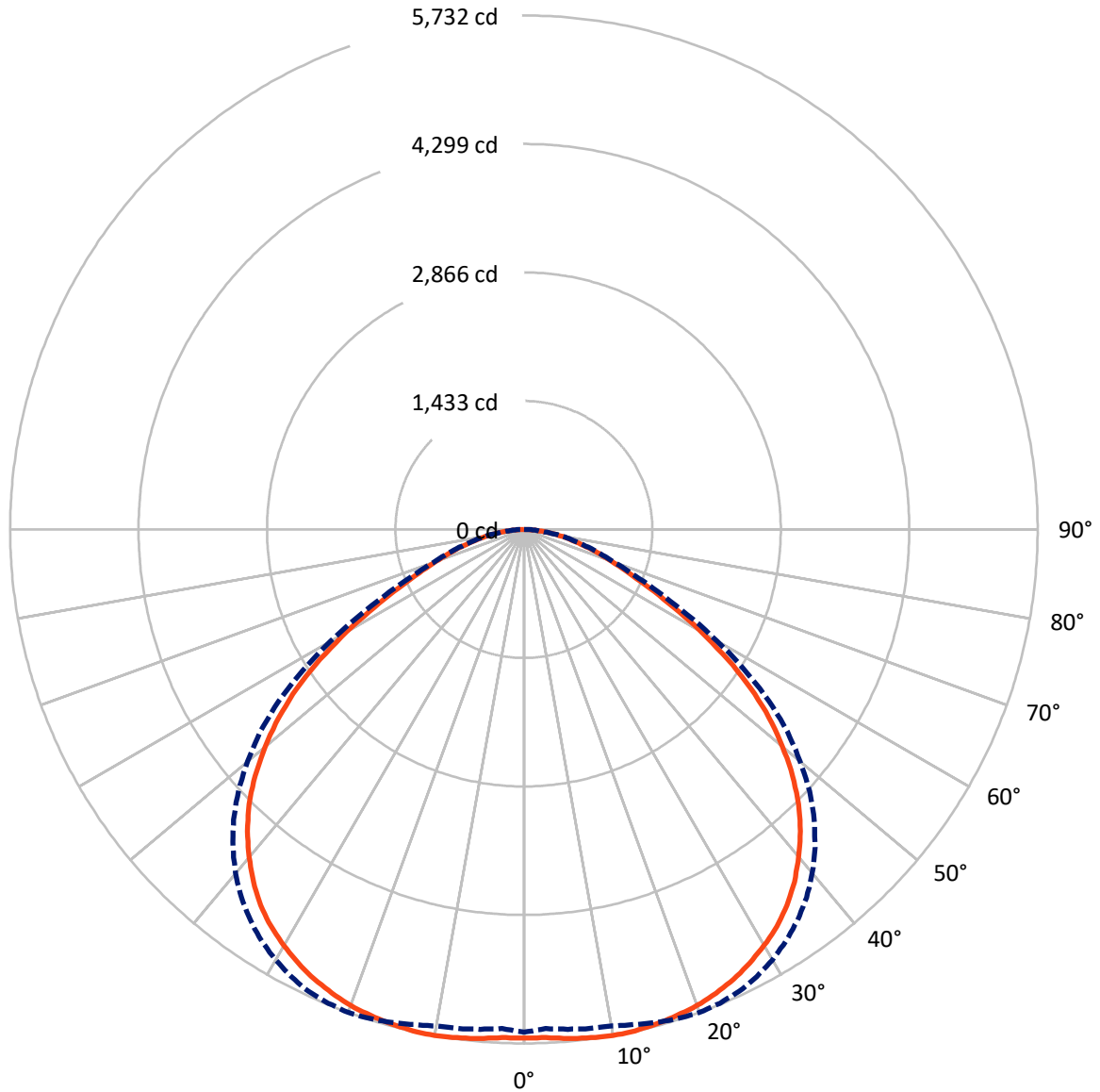
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Lumen Table



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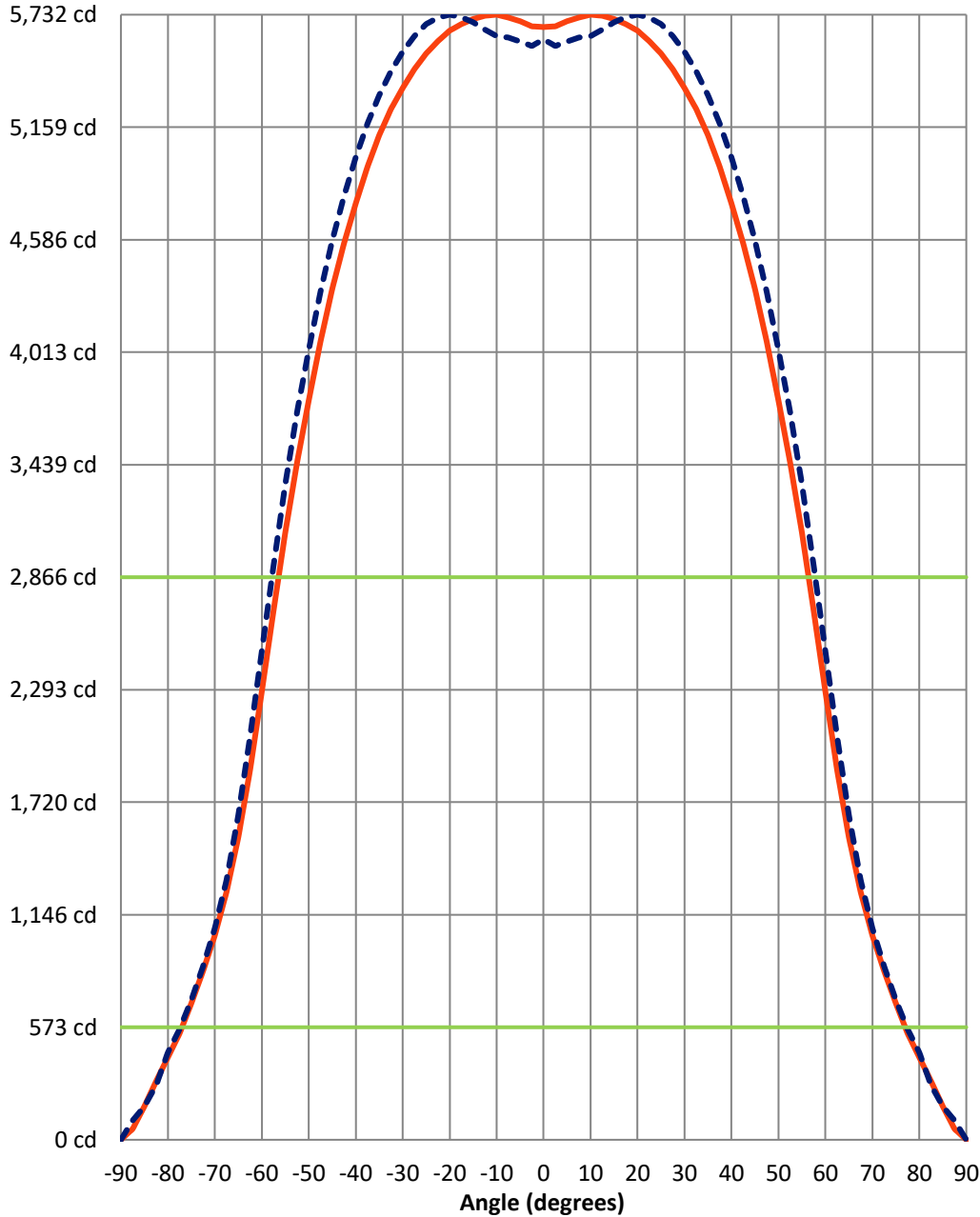
Luminous Intensity Polar Plot



— 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: 10791
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 12936.6
 Efficiency: 73.6%

Spill:
 Lumens: 4649.2
 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°	46.3	50.0	51.8	53.7	55.5	57.4	59.2	57.4	55.5	55.5	53.7
85°	124.0	127.7	129.5	142.5	155.4	162.8	172.1	170.2	170.2	168.4	166.5
82.5°	247.9	259.0	268.3	281.2	288.6	299.8	307.2	301.6	297.9	290.5	284.9
80°	440.4	444.1	445.9	447.8	438.5	436.7	433.0	427.4	420.0	410.8	401.5
77.5°	560.6	564.3	568.0	564.3	562.5	560.6	555.1	549.5	542.1	534.7	523.6
75°	742.0	742.0	742.0	736.4	732.7	727.2	717.9	708.7	695.7	680.9	664.3
72.5°	934.4	932.6	930.7	919.6	910.4	899.3	886.3	875.2	860.4	843.7	821.5
70°	1136.1	1139.8	1141.6	1126.8	1115.7	1100.9	1084.3	1063.9	1041.7	1017.7	986.2
67.5°	1413.6	1409.9	1406.2	1385.9	1371.1	1350.7	1326.7	1297.1	1263.8	1226.8	1182.3
65°	1757.8	1763.3	1752.2	1731.9	1704.1	1670.8	1633.8	1591.3	1541.3	1485.8	1422.9
62.5°	2174.1	2183.4	2170.4	2144.5	2109.4	2064.9	2013.1	1952.1	1883.6	1805.9	1728.2
60°	2647.8	2645.9	2621.9	2586.7	2540.5	2485.0	2427.6	2361.0	2283.3	2192.6	2098.3
57.5°	3082.6	3078.9	3049.3	3014.2	2967.9	2908.7	2847.6	2777.3	2695.9	2599.7	2490.5
55°	3473.0	3469.3	3439.7	3402.7	3354.6	3295.4	3239.9	3173.3	3093.7	2992.0	2875.4
52.5°	3819.0	3820.9	3795.0	3754.3	3702.5	3645.1	3591.5	3524.8	3449.0	3347.2	3234.3
50°	4137.3	4135.4	4107.7	4070.7	4022.6	3967.1	3913.4	3846.8	3767.2	3669.2	3560.0
47.5°	4433.3	4429.6	4398.2	4357.5	4307.5	4259.4	4209.5	4150.2	4067.0	3968.9	3859.7
45°	4681.3	4673.9	4642.4	4603.6	4555.5	4512.9	4468.5	4424.1	4335.3	4244.6	4141.0
42.5°	4894.1	4892.2	4860.8	4821.9	4773.8	4736.8	4696.1	4640.6	4566.6	4483.3	4381.5
40°	5097.6	5082.8	5051.3	5014.3	4969.9	4938.5	4897.8	4842.3	4770.1	4688.7	4590.6
37.5°	5249.3	5251.2	5217.9	5177.2	5138.3	5108.7	5071.7	5019.9	4957.0	4877.4	4779.3
35°	5393.7	5384.4	5356.6	5321.5	5286.3	5253.0	5214.2	5169.8	5118.0	5043.9	4951.4
32.5°	5488.0	5501.0	5467.7	5430.7	5410.3	5384.4	5343.7	5297.4	5251.2	5177.2	5093.9
30°	5591.6	5580.5	5554.6	5523.2	5508.4	5491.7	5456.6	5412.2	5358.5	5291.9	5214.2
27.5°	5663.8	5658.2	5626.8	5597.2	5589.8	5575.0	5547.2	5508.4	5454.7	5390.0	5317.8
25°	5695.3	5699.0	5669.3	5652.7	5652.7	5643.4	5621.2	5587.9	5534.3	5475.1	5404.8
22.5°	5710.1	5706.4	5686.0	5682.3	5691.6	5684.2	5674.9	5645.3	5597.2	5549.1	5489.9
20°	5719.3	5693.4	5674.9	5689.7	5700.8	5699.0	5691.6	5673.0	5650.8	5610.1	5558.3
17.5°	5699.0	5682.3	5660.1	5682.3	5706.4	5708.2	5700.8	5689.7	5684.2	5658.2	5612.0
15°	5649.0	5636.0	5639.7	5661.9	5689.7	5699.0	5704.5	5717.5	5710.1	5689.7	5649.0
12.5°	5615.7	5599.0	5615.7	5637.9	5652.7	5658.2	5702.7	5726.7	5726.7	5708.2	5682.3
10°	5606.4	5573.1	5595.3	5615.7	5623.1	5656.4	5693.4	5719.3	5732.3	5717.5	5684.2
7.5°	5587.9	5565.7	5575.0	5584.2	5626.8	5650.8	5671.2	5699.0	5717.5	5715.6	5686.0
5°	5578.7	5550.9	5554.6	5593.5	5623.1	5639.7	5647.1	5671.2	5699.0	5704.5	5682.3
2.5°	5554.6	5541.7	5569.4	5573.1	5595.3	5608.3	5615.7	5637.9	5673.0	5686.0	5676.7
0°	5541.7	5523.2	5504.7	5519.5	5556.5	5584.2	5595.3	5628.6	5669.3	5682.3	5661.9



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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°	51.8	50.0	48.1	46.3	48.1	48.1	48.1	46.3	48.1	46.3	46.3
85°	161.0	153.6	148.0	140.6	133.2	127.7	120.3	112.9	111.0	109.2	105.5
82.5°	277.5	268.3	259.0	247.9	236.8	223.9	210.9	196.1	192.4	188.7	183.2
80°	390.4	377.5	364.5	351.6	340.5	327.5	312.7	296.0	284.9	275.7	264.6
77.5°	508.8	490.3	471.8	449.6	436.7	423.7	408.9	392.3	375.6	360.8	344.2
75°	643.9	623.6	605.1	582.8	558.8	534.7	510.7	488.5	464.4	442.2	420.0
72.5°	793.8	764.2	734.6	706.8	677.2	647.6	616.2	586.5	556.9	527.3	495.9
70°	951.1	914.1	877.0	840.0	801.2	762.3	725.3	688.3	651.3	612.5	577.3
67.5°	1136.1	1093.5	1045.4	993.6	936.3	886.3	838.2	793.8	749.4	705.0	660.6
65°	1367.4	1308.2	1243.4	1173.1	1106.5	1039.9	969.6	903.0	851.1	799.3	749.4
62.5°	1652.3	1569.1	1478.4	1387.7	1306.3	1219.4	1137.9	1051.0	969.6	895.5	834.5
60°	1992.8	1879.9	1768.9	1652.3	1539.5	1421.0	1317.4	1210.1	1108.3	1017.7	928.9
57.5°	2368.4	2237.0	2103.8	1961.3	1807.8	1669.0	1528.4	1387.7	1267.5	1147.2	1047.3
55°	2749.6	2610.8	2460.9	2299.9	2131.6	1953.9	1763.3	1606.1	1441.4	1300.8	1171.2
52.5°	3112.2	2967.9	2812.5	2664.4	2462.8	2259.2	2050.1	1842.9	1650.5	1471.0	1313.7
50°	3436.0	3295.4	3145.5	2973.4	2786.6	2570.1	2336.9	2103.8	1876.2	1665.3	1469.1
47.5°	3732.1	3595.2	3445.3	3273.2	3103.0	2862.4	2627.4	2370.2	2116.8	1874.4	1644.9
45°	4009.6	3870.8	3715.4	3550.7	3354.6	3140.0	2897.6	2638.5	2366.5	2094.6	1830.0
42.5°	4261.3	4122.5	3965.2	3795.0	3600.7	3387.9	3152.9	2892.0	2618.2	2322.1	2031.6
40°	4481.4	4346.4	4194.7	4017.0	3835.7	3611.8	3380.5	3132.6	2849.5	2551.6	2231.5
37.5°	4673.9	4548.1	4398.2	4222.4	4030.0	3830.1	3591.5	3343.5	3088.2	2764.4	2436.9
35°	4844.1	4727.5	4574.0	4407.4	4218.7	4007.8	3783.9	3541.5	3265.8	2962.3	2644.1
32.5°	4992.1	4873.7	4733.1	4566.6	4383.4	4185.4	3956.0	3711.7	3450.8	3141.8	2795.8
30°	5118.0	5003.2	4870.0	4712.7	4537.0	4340.8	4116.9	3870.8	3604.4	3297.3	2954.9
27.5°	5227.1	5118.0	4988.4	4842.3	4673.9	4485.1	4259.4	4011.5	3739.5	3443.4	3101.1
25°	5321.5	5216.0	5095.8	4957.0	4790.5	4605.4	4392.6	4133.6	3861.6	3563.7	3225.1
22.5°	5406.6	5304.8	5184.6	5049.5	4897.8	4712.7	4498.1	4240.9	3965.2	3671.0	3338.0
20°	5482.5	5388.1	5269.7	5130.9	4979.2	4792.3	4579.5	4335.3	4057.7	3769.1	3439.7
17.5°	5543.5	5460.3	5341.8	5195.7	5043.9	4862.6	4655.4	4431.5	4137.3	3852.3	3524.8
15°	5586.1	5504.7	5397.4	5249.3	5101.3	4921.8	4714.6	4483.3	4209.5	3919.0	3595.2
12.5°	5615.7	5528.7	5428.8	5291.9	5143.9	4966.2	4764.5	4537.0	4270.5	3978.2	3656.2
10°	5623.1	5543.5	5443.6	5321.5	5177.2	5005.1	4807.1	4581.4	4320.5	4024.4	3706.2
7.5°	5626.8	5550.9	5460.3	5343.7	5201.2	5034.7	4838.6	4616.5	4357.5	4063.3	3743.2
5°	5624.9	5552.8	5471.4	5358.5	5216.0	5051.3	4858.9	4640.6	4383.4	4089.2	3770.9
2.5°	5619.4	5554.6	5478.8	5369.6	5232.7	5069.8	4879.3	4668.3	4411.1	4111.4	3793.1
0°	5634.2	5578.7	5482.5	5365.9	5236.4	5069.8	4877.4	4672.0	4414.8	4109.5	3791.3



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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°	46.3	44.4	44.4	42.6	40.7	38.9	35.2	33.3	29.6	24.1	18.5
85°	99.9	94.4	88.8	85.1	81.4	77.7	72.2	66.6	59.2	48.1	37.0
82.5°	175.8	164.7	153.6	140.6	129.5	118.4	109.2	99.9	88.8	72.2	55.5
80°	251.6	235.0	218.3	199.8	183.2	164.7	148.0	133.2	118.4	96.2	74.0
77.5°	327.5	305.3	281.2	259.0	235.0	210.9	186.9	166.5	144.3	118.4	92.5
75°	397.8	371.9	349.7	318.3	288.6	257.2	225.7	198.0	170.2	138.8	111.0
72.5°	468.1	434.8	403.4	373.8	340.5	301.6	266.4	231.3	196.1	159.1	125.8
70°	538.4	497.7	458.9	423.7	386.7	347.9	305.3	264.6	222.0	177.6	138.8
67.5°	610.6	564.3	519.9	475.5	433.0	388.6	344.2	297.9	247.9	196.1	153.6
65°	690.2	632.8	579.1	529.2	479.2	431.1	381.2	331.2	275.7	216.5	166.5
62.5°	769.7	706.8	643.9	581.0	525.5	471.8	418.2	362.7	301.6	238.7	179.5
60°	854.8	782.7	710.5	640.2	571.7	512.5	453.3	394.1	329.4	259.0	192.4
57.5°	949.2	862.2	780.8	701.3	623.6	553.2	488.5	425.6	353.4	279.4	207.2
55°	1056.5	949.2	853.0	764.2	679.1	593.9	523.6	458.9	381.2	299.8	223.9
52.5°	1169.4	1045.4	928.9	828.9	738.3	642.1	556.9	484.8	408.9	320.1	238.7
50°	1300.8	1143.5	1014.0	891.8	790.1	690.2	592.1	514.4	436.7	344.2	253.5
47.5°	1435.8	1261.9	1099.1	965.9	845.6	736.4	632.8	540.3	462.6	366.4	268.3
45°	1593.1	1374.8	1195.3	1038.0	899.3	784.5	673.5	568.0	484.8	388.6	283.1
42.5°	1744.8	1508.0	1295.2	1117.6	960.3	830.8	710.5	597.6	507.0	410.8	296.0
40°	1924.3	1641.2	1391.4	1193.4	1021.4	875.2	747.5	629.1	527.3	431.1	309.0
37.5°	2096.4	1776.3	1508.0	1276.7	1080.6	919.6	784.5	658.7	545.8	451.5	325.7
35°	2266.6	1926.2	1619.0	1354.4	1141.6	969.6	821.5	686.5	564.3	468.1	340.5
32.5°	2429.5	2066.8	1731.9	1441.4	1208.3	1015.8	854.8	712.4	582.8	482.9	355.3
30°	2581.2	2200.0	1842.9	1530.2	1269.3	1058.4	886.3	738.3	605.1	495.9	370.1
27.5°	2720.0	2329.5	1953.9	1613.5	1326.7	1097.2	919.6	762.3	623.6	508.8	383.0
25°	2845.8	2446.1	2055.7	1689.3	1378.5	1139.8	951.1	786.4	640.2	519.9	394.1
22.5°	2964.2	2553.4	2148.2	1765.2	1441.4	1182.3	980.7	808.6	656.9	531.0	405.2
20°	3067.8	2651.5	2237.0	1841.1	1496.9	1221.2	1006.6	828.9	671.7	538.4	416.3
17.5°	3151.1	2738.5	2316.6	1907.7	1545.0	1254.5	1028.8	847.4	684.6	547.7	423.7
15°	3225.1	2812.5	2383.2	1965.0	1587.6	1282.3	1049.1	862.2	695.7	553.2	433.0
12.5°	3288.0	2875.4	2440.6	2015.0	1624.6	1306.3	1065.8	873.3	705.0	558.8	438.5
10°	3339.8	2925.3	2488.7	2053.8	1654.2	1324.8	1078.7	884.4	712.4	564.3	444.1
7.5°	3378.7	2962.3	2523.8	2087.1	1678.2	1337.8	1089.8	891.8	719.8	568.0	453.3
5°	3408.3	2993.8	2551.6	2109.4	1696.7	1356.3	1102.8	901.1	727.2	571.7	453.3
2.5°	3430.5	3019.7	2573.8	2127.9	1711.5	1352.6	1102.8	899.3	727.2	571.7	451.5
0°	3426.8	3021.6	2571.9	2127.9	1711.5	1348.9	1102.8	897.4	727.2	571.7	451.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.0	9.3	3.7	0.0
85°	27.8	18.5	9.3	0.0
82.5°	40.7	25.9	13.0	0.0
80°	53.7	35.2	16.7	0.0
77.5°	68.5	44.4	22.2	0.0
75°	81.4	51.8	25.9	0.0
72.5°	94.4	61.1	29.6	0.0
70°	105.5	68.5	33.3	0.0
67.5°	116.6	77.7	38.9	0.0
65°	125.8	85.1	42.6	0.0
62.5°	133.2	94.4	46.3	0.0
60°	142.5	101.8	50.0	0.0
57.5°	149.9	107.3	53.7	0.0
55°	157.3	111.0	57.4	0.0
52.5°	164.7	116.6	61.1	0.0
50°	172.1	122.1	64.8	0.0
47.5°	179.5	125.8	66.6	0.0
45°	190.6	131.4	70.3	0.0
42.5°	199.8	135.1	74.0	0.0
40°	209.1	138.8	75.9	0.0
37.5°	218.3	142.5	79.6	0.0
35°	227.6	146.2	81.4	0.0
32.5°	235.0	149.9	83.3	0.0
30°	242.4	153.6	85.1	0.0
27.5°	249.8	155.4	87.0	0.0
25°	255.3	159.1	88.8	0.0
22.5°	260.9	161.0	90.7	0.0
20°	264.6	162.8	92.5	0.0
17.5°	270.1	164.7	94.4	0.0
15°	272.0	166.5	98.1	0.0
12.5°	275.7	168.4	98.1	0.0
10°	277.5	170.2	98.1	0.0
7.5°	281.2	170.2	98.1	0.0
5°	279.4	170.2	98.1	0.0
2.5°	279.4	170.2	98.1	0.0
0°	277.5	170.2	98.1	0.0

(END OF REPORT)