

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: P628388

Luminaire Tested: **IFLD-S-SA3B-830-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628388
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

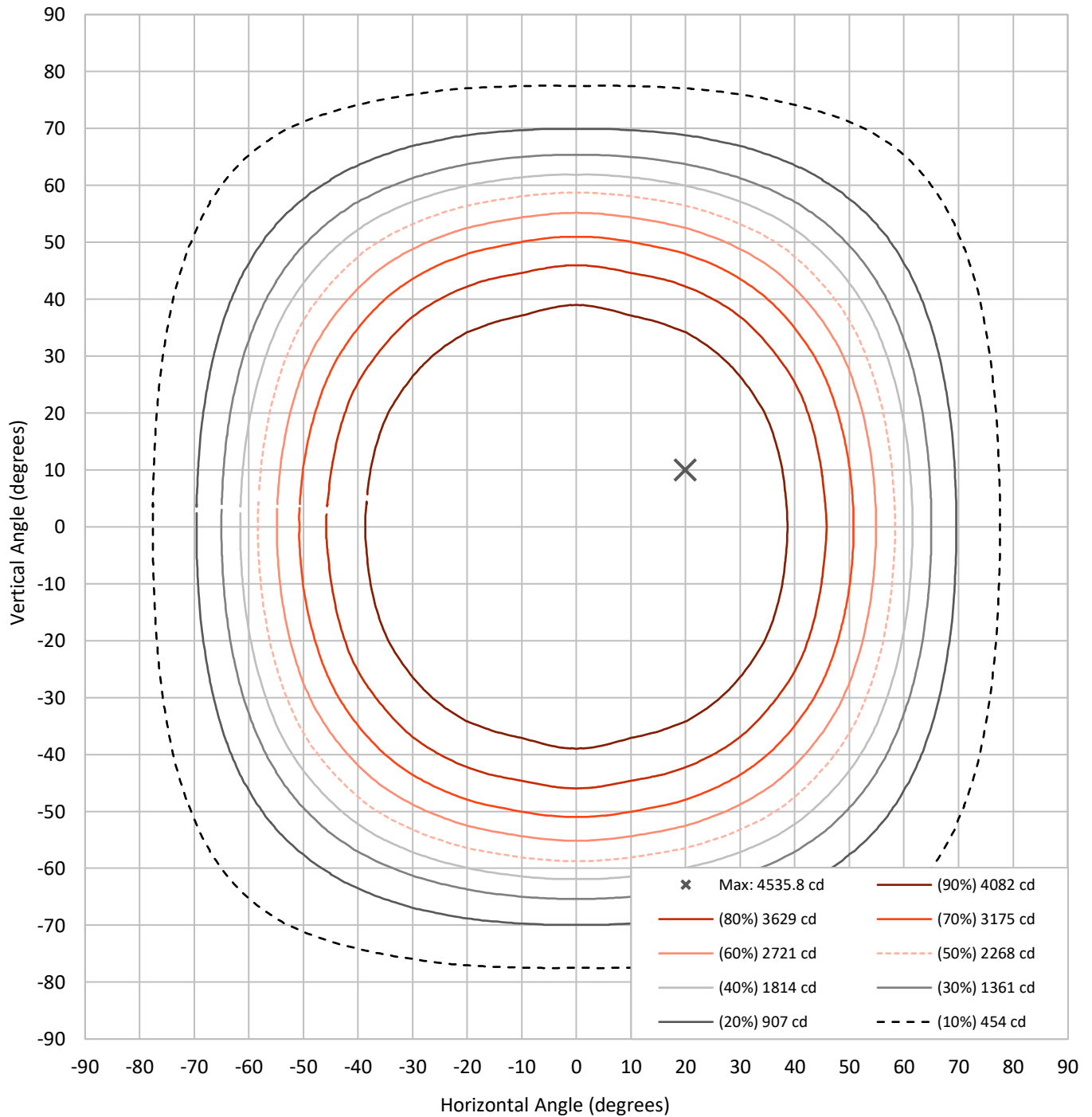
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	13915.2 lumens	Max Intensity:	4535.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	113.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	8538.7 lumens	Field Lumens:	10236.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	122.4		
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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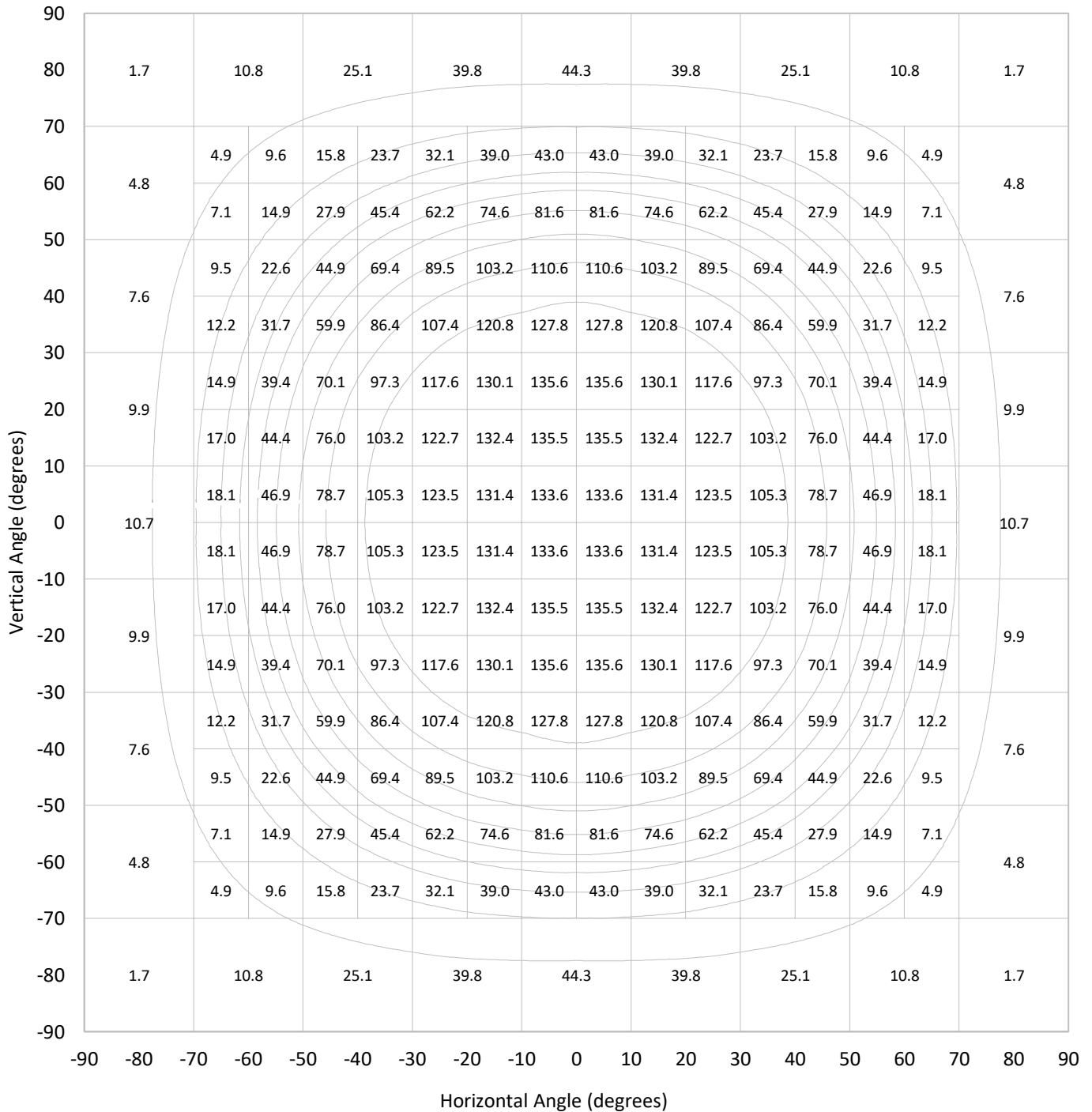
Iso-Candela Plot





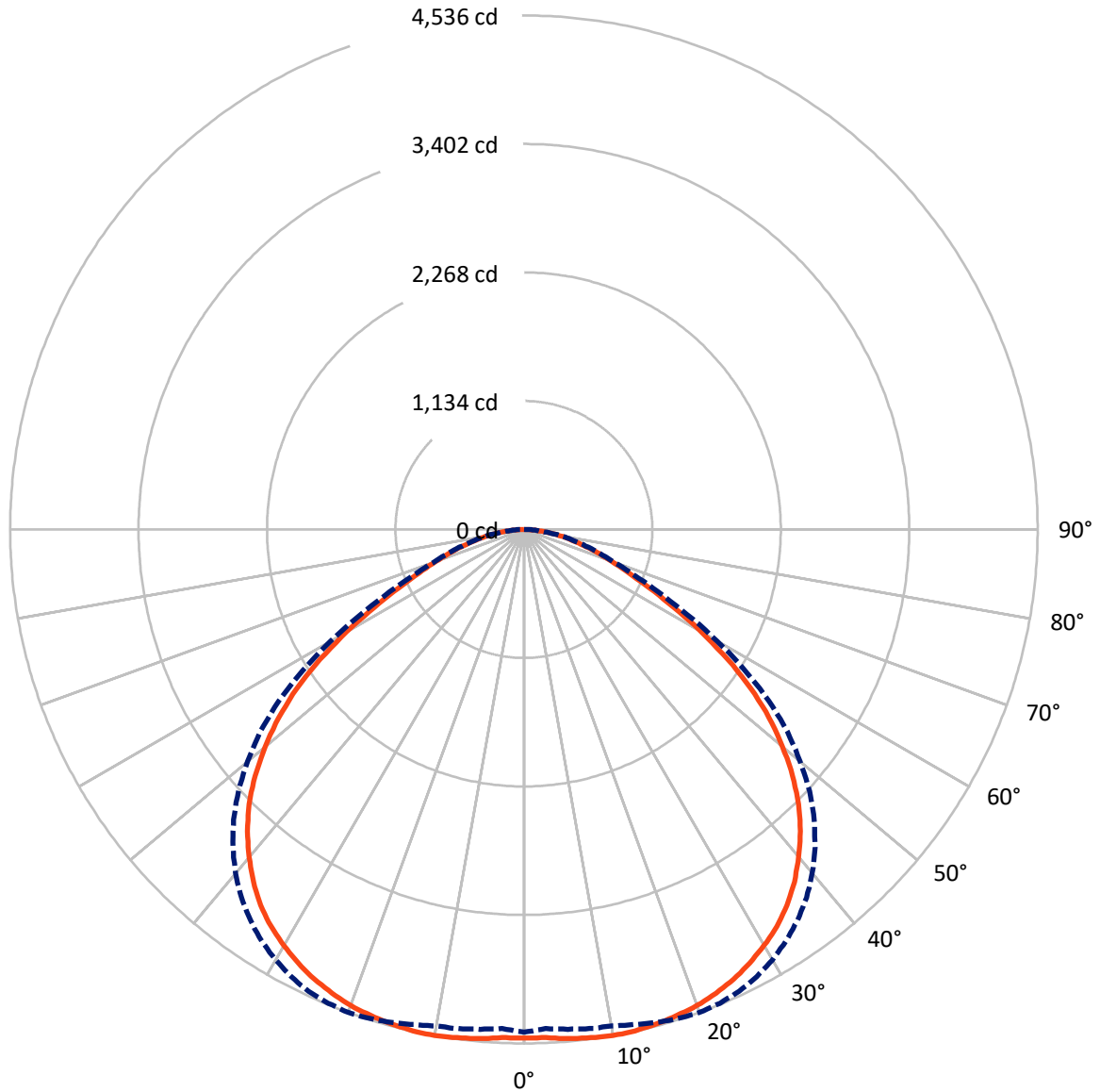
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Lumen Table



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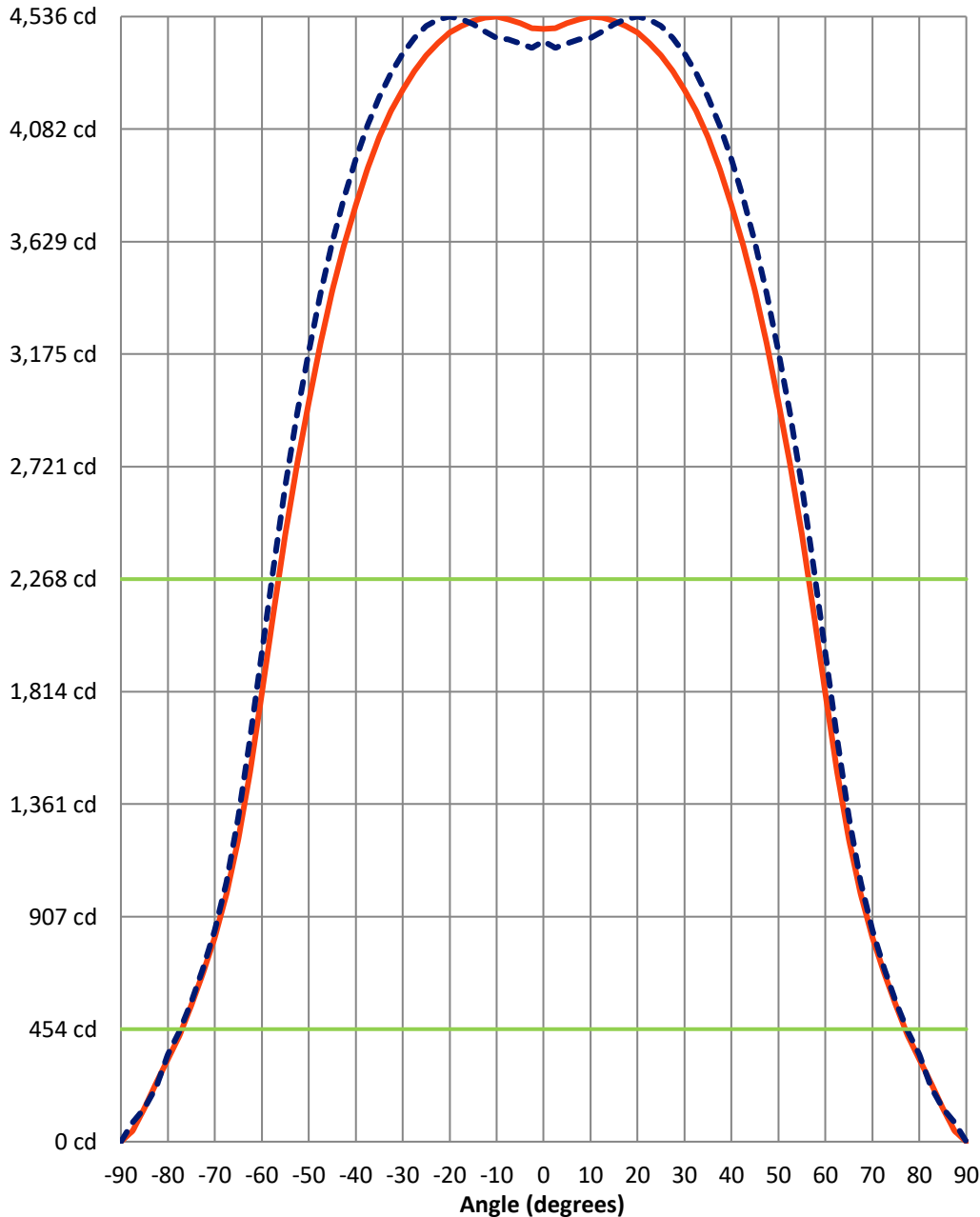
Luminous Intensity Polar Plot



— 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: 8538.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 10236.4
 Efficiency: 73.6%

Spill:
 Lumens: 3678.8
 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°	36.6	39.5	41.0	42.5	43.9	45.4	46.9	45.4	43.9	43.9	42.5
85°	98.1	101.0	102.5	112.7	123.0	128.8	136.2	134.7	134.7	133.2	131.8
82.5°	196.2	205.0	212.3	222.5	228.4	237.2	243.0	238.6	235.7	229.9	225.5
80°	348.5	351.4	352.8	354.3	347.0	345.5	342.6	338.2	332.4	325.0	317.7
77.5°	443.6	446.6	449.5	446.6	445.1	443.6	439.2	434.8	429.0	423.1	414.3
75°	587.1	587.1	587.1	582.7	579.8	575.4	568.1	560.8	550.5	538.8	525.6
72.5°	739.4	737.9	736.4	727.7	720.3	711.6	701.3	692.5	680.8	667.6	650.1
70°	899.0	901.9	903.4	891.6	882.9	871.1	858.0	841.9	824.3	805.3	780.4
67.5°	1118.6	1115.6	1112.7	1096.6	1084.9	1068.8	1049.8	1026.3	1000.0	970.7	935.6
65°	1390.9	1395.3	1386.5	1370.4	1348.4	1322.1	1292.8	1259.1	1219.6	1175.7	1125.9
62.5°	1720.3	1727.6	1717.4	1696.9	1669.1	1633.9	1592.9	1544.6	1490.5	1429.0	1367.5
60°	2095.1	2093.7	2074.6	2046.8	2010.2	1966.3	1920.9	1868.2	1806.7	1735.0	1660.3
57.5°	2439.2	2436.3	2412.8	2385.0	2348.4	2301.6	2253.3	2197.6	2133.2	2057.1	1970.7
55°	2748.1	2745.2	2721.8	2692.5	2654.4	2607.6	2563.7	2510.9	2448.0	2367.5	2275.2
52.5°	3021.9	3023.4	3002.9	2970.7	2929.7	2884.3	2841.8	2789.1	2729.1	2648.6	2559.3
50°	3273.7	3272.3	3250.3	3221.0	3183.0	3139.0	3096.6	3043.9	2980.9	2903.3	2816.9
47.5°	3508.0	3505.1	3480.2	3448.0	3408.4	3370.4	3330.8	3284.0	3218.1	3140.5	3054.1
45°	3704.2	3698.3	3673.4	3642.7	3604.6	3571.0	3535.8	3500.7	3430.4	3358.7	3276.7
42.5°	3872.6	3871.1	3846.2	3815.5	3777.4	3748.1	3715.9	3672.0	3613.4	3547.5	3467.0
40°	4033.6	4021.9	3997.0	3967.7	3932.6	3907.7	3875.5	3831.6	3774.5	3710.0	3632.4
37.5°	4153.7	4155.1	4128.8	4096.6	4065.8	4042.4	4013.1	3972.1	3922.3	3859.4	3781.8
35°	4267.9	4260.5	4238.6	4210.8	4183.0	4156.6	4125.9	4090.7	4049.7	3991.2	3917.9
32.5°	4342.5	4352.8	4326.4	4297.2	4281.0	4260.5	4228.3	4191.7	4155.1	4096.6	4030.7
30°	4424.5	4415.7	4395.2	4370.4	4358.6	4345.5	4317.7	4282.5	4240.1	4187.3	4125.9
27.5°	4481.6	4477.2	4452.3	4428.9	4423.1	4411.4	4389.4	4358.6	4316.2	4264.9	4207.8
25°	4506.5	4509.4	4486.0	4472.8	4472.8	4465.5	4448.0	4421.6	4379.1	4332.3	4276.7
22.5°	4518.2	4515.3	4499.2	4496.3	4503.6	4497.7	4490.4	4467.0	4428.9	4390.9	4344.0
20°	4525.6	4505.1	4490.4	4502.1	4510.9	4509.4	4503.6	4489.0	4471.4	4439.2	4398.2
17.5°	4509.4	4496.3	4478.7	4496.3	4515.3	4516.8	4510.9	4502.1	4497.7	4477.2	4440.6
15°	4469.9	4459.7	4462.6	4480.2	4502.1	4509.4	4513.8	4524.1	4518.2	4502.1	4469.9
12.5°	4443.6	4430.4	4443.6	4461.1	4472.8	4477.2	4512.4	4531.4	4531.4	4516.8	4496.3
10°	4436.2	4409.9	4427.5	4443.6	4449.4	4475.8	4505.1	4525.6	4535.8	4524.1	4497.7
7.5°	4421.6	4404.0	4411.4	4418.7	4452.3	4471.4	4487.5	4509.4	4524.1	4522.6	4499.2
5°	4414.3	4392.3	4395.2	4426.0	4449.4	4462.6	4468.5	4487.5	4509.4	4513.8	4496.3
2.5°	4395.2	4385.0	4407.0	4409.9	4427.5	4437.7	4443.6	4461.1	4489.0	4499.2	4491.9
0°	4385.0	4370.4	4355.7	4367.4	4396.7	4418.7	4427.5	4453.8	4486.0	4496.3	4480.2



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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°	41.0	39.5	38.1	36.6	38.1	38.1	38.1	36.6	38.1	36.6	36.6
85°	127.4	121.5	117.1	111.3	105.4	101.0	95.2	89.3	87.8	86.4	83.5
82.5°	219.6	212.3	205.0	196.2	187.4	177.2	166.9	155.2	152.3	149.3	144.9
80°	308.9	298.7	288.4	278.2	269.4	259.1	247.4	234.3	225.5	218.2	209.4
77.5°	402.6	388.0	373.3	355.8	345.5	335.3	323.6	310.4	297.2	285.5	272.3
75°	509.5	493.4	478.8	461.2	442.2	423.1	404.1	386.5	367.5	349.9	332.4
72.5°	628.1	604.7	581.3	559.3	535.9	512.4	487.5	464.1	440.7	417.3	392.4
70°	752.6	723.3	694.0	664.7	634.0	603.2	573.9	544.6	515.4	484.6	456.8
67.5°	899.0	865.3	827.2	786.2	740.8	701.3	663.2	628.1	593.0	557.8	522.7
65°	1082.0	1035.1	983.9	928.2	875.5	822.8	767.2	714.5	673.5	632.5	593.0
62.5°	1307.4	1241.6	1169.8	1098.1	1033.7	964.8	900.4	831.6	767.2	708.6	660.3
60°	1576.8	1487.5	1399.7	1307.4	1218.1	1124.4	1042.4	957.5	877.0	805.3	735.0
57.5°	1874.1	1770.1	1664.7	1552.0	1430.4	1320.6	1209.4	1098.1	1002.9	907.7	828.7
55°	2175.7	2065.9	1947.3	1819.9	1686.7	1546.1	1395.3	1270.8	1140.5	1029.3	926.8
52.5°	2462.6	2348.4	2225.4	2108.3	1948.7	1787.7	1622.2	1458.3	1306.0	1164.0	1039.5
50°	2718.8	2607.6	2489.0	2352.8	2204.9	2033.6	1849.2	1664.7	1484.6	1317.7	1162.5
47.5°	2953.1	2844.8	2726.2	2590.0	2455.3	2265.0	2079.0	1875.5	1674.9	1483.1	1301.6
45°	3172.7	3062.9	2939.9	2809.6	2654.4	2484.6	2292.8	2087.8	1872.6	1657.4	1448.0
42.5°	3371.8	3262.0	3137.6	3002.9	2849.2	2680.8	2494.8	2288.4	2071.7	1837.5	1607.6
40°	3546.1	3439.2	3319.1	3178.6	3035.1	2857.9	2674.9	2478.7	2254.7	2019.0	1765.7
37.5°	3698.3	3598.8	3480.2	3341.1	3188.8	3030.7	2841.8	2645.6	2443.6	2187.4	1928.2
35°	3833.0	3740.8	3619.3	3487.5	3338.2	3171.3	2994.1	2802.3	2584.1	2344.0	2092.2
32.5°	3950.2	3856.5	3745.2	3613.4	3468.5	3311.8	3130.3	2937.0	2730.6	2486.1	2212.3
30°	4049.7	3958.9	3853.5	3729.1	3590.0	3434.8	3257.6	3062.9	2852.1	2609.0	2338.2
27.5°	4136.1	4049.7	3947.2	3831.6	3698.3	3549.0	3370.4	3174.2	2959.0	2724.7	2453.8
25°	4210.8	4127.3	4032.1	3922.3	3790.6	3644.2	3475.8	3270.8	3055.6	2819.9	2551.9
22.5°	4278.1	4197.6	4102.4	3995.5	3875.5	3729.1	3559.2	3355.7	3137.6	2904.8	2641.2
20°	4338.1	4263.5	4169.8	4060.0	3939.9	3792.0	3623.7	3430.4	3210.8	2982.4	2721.8
17.5°	4386.5	4320.6	4226.9	4111.2	3991.2	3847.7	3683.7	3506.5	3273.7	3048.3	2789.1
15°	4420.1	4355.7	4270.8	4153.7	4036.5	3894.5	3730.5	3547.5	3330.8	3101.0	2844.8
12.5°	4443.6	4374.8	4295.7	4187.3	4070.2	3929.7	3770.1	3590.0	3379.2	3147.8	2893.1
10°	4449.4	4386.5	4307.4	4210.8	4096.6	3960.4	3803.7	3625.1	3418.7	3184.4	2932.6
7.5°	4452.3	4392.3	4320.6	4228.3	4115.6	3983.8	3828.6	3652.9	3448.0	3215.2	2961.9
5°	4450.9	4393.8	4329.4	4240.1	4127.3	3997.0	3844.7	3672.0	3468.5	3235.7	2983.8
2.5°	4446.5	4395.2	4335.2	4248.8	4140.5	4011.7	3860.8	3693.9	3490.4	3253.2	3001.4
0°	4458.2	4414.3	4338.1	4245.9	4143.4	4011.7	3859.4	3696.9	3493.4	3251.8	3000.0



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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°	36.6	35.1	35.1	33.7	32.2	30.7	27.8	26.4	23.4	19.0	14.6
85°	79.1	74.7	70.3	67.3	64.4	61.5	57.1	52.7	46.9	38.1	29.3
82.5°	139.1	130.3	121.5	111.3	102.5	93.7	86.4	79.1	70.3	57.1	43.9
80°	199.1	185.9	172.8	158.1	144.9	130.3	117.1	105.4	93.7	76.1	58.6
77.5°	259.1	241.6	222.5	205.0	185.9	166.9	147.9	131.8	114.2	93.7	73.2
75°	314.8	294.3	276.7	251.8	228.4	203.5	178.6	156.7	134.7	109.8	87.8
72.5°	370.4	344.1	319.2	295.7	269.4	238.6	210.8	183.0	155.2	125.9	99.6
70°	426.1	393.8	363.1	335.3	306.0	275.3	241.6	209.4	175.7	140.6	109.8
67.5°	483.2	446.6	411.4	376.3	342.6	307.5	272.3	235.7	196.2	155.2	121.5
65°	546.1	500.7	458.3	418.7	379.2	341.1	301.6	262.1	218.2	171.3	131.8
62.5°	609.1	559.3	509.5	459.7	415.8	373.3	330.9	287.0	238.6	188.9	142.0
60°	676.4	619.3	562.2	506.6	452.4	405.6	358.7	311.9	260.6	205.0	152.3
57.5°	751.1	682.3	617.9	554.9	493.4	437.8	386.5	336.7	279.6	221.1	164.0
55°	836.0	751.1	675.0	604.7	537.3	470.0	414.3	363.1	301.6	237.2	177.2
52.5°	925.3	827.2	735.0	655.9	584.2	508.0	440.7	383.6	323.6	253.3	188.9
50°	1029.3	904.8	802.3	705.7	625.2	546.1	468.5	407.0	345.5	272.3	200.6
47.5°	1136.1	998.5	869.7	764.3	669.1	582.7	500.7	427.5	366.0	289.9	212.3
45°	1260.6	1087.8	945.8	821.4	711.6	620.8	532.9	449.5	383.6	307.5	224.0
42.5°	1380.7	1193.2	1024.9	884.3	759.9	657.4	562.2	472.9	401.2	325.0	234.3
40°	1522.7	1298.7	1101.0	944.3	808.2	692.5	591.5	497.8	417.3	341.1	244.5
37.5°	1658.8	1405.5	1193.2	1010.2	855.0	727.7	620.8	521.2	431.9	357.2	257.7
35°	1793.5	1524.1	1281.1	1071.7	903.4	767.2	650.1	543.2	446.6	370.4	269.4
32.5°	1922.4	1635.4	1370.4	1140.5	956.1	803.8	676.4	563.7	461.2	382.1	281.1
30°	2042.4	1740.8	1458.3	1210.8	1004.4	837.5	701.3	584.2	478.8	392.4	292.8
27.5°	2152.2	1843.3	1546.1	1276.7	1049.8	868.2	727.7	603.2	493.4	402.6	303.1
25°	2251.8	1935.5	1626.6	1336.7	1090.8	901.9	752.6	622.2	506.6	411.4	311.9
22.5°	2345.5	2020.5	1699.8	1396.8	1140.5	935.6	776.0	639.8	519.8	420.2	320.6
20°	2427.5	2098.1	1770.1	1456.8	1184.5	966.3	796.5	655.9	531.5	426.1	329.4
17.5°	2493.4	2166.9	1833.1	1509.5	1222.5	992.7	814.0	670.6	541.7	433.4	335.3
15°	2551.9	2225.4	1885.8	1554.9	1256.2	1014.6	830.1	682.3	550.5	437.8	342.6
12.5°	2601.7	2275.2	1931.2	1594.4	1285.5	1033.7	843.3	691.1	557.8	442.2	347.0
10°	2642.7	2314.8	1969.2	1625.2	1308.9	1048.3	853.6	699.8	563.7	446.6	351.4
7.5°	2673.5	2344.0	1997.0	1651.5	1327.9	1058.5	862.4	705.7	569.5	449.5	358.7
5°	2696.9	2368.9	2019.0	1669.1	1342.6	1073.2	872.6	713.0	575.4	452.4	358.7
2.5°	2714.5	2389.4	2036.6	1683.7	1354.3	1070.3	872.6	711.6	575.4	452.4	357.2
0°	2711.5	2390.9	2035.1	1683.7	1354.3	1067.3	872.6	710.1	575.4	452.4	357.2



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.2	7.3	2.9	0.0
85°	22.0	14.6	7.3	0.0
82.5°	32.2	20.5	10.2	0.0
80°	42.5	27.8	13.2	0.0
77.5°	54.2	35.1	17.6	0.0
75°	64.4	41.0	20.5	0.0
72.5°	74.7	48.3	23.4	0.0
70°	83.5	54.2	26.4	0.0
67.5°	92.2	61.5	30.7	0.0
65°	99.6	67.3	33.7	0.0
62.5°	105.4	74.7	36.6	0.0
60°	112.7	80.5	39.5	0.0
57.5°	118.6	84.9	42.5	0.0
55°	124.4	87.8	45.4	0.0
52.5°	130.3	92.2	48.3	0.0
50°	136.2	96.6	51.2	0.0
47.5°	142.0	99.6	52.7	0.0
45°	150.8	104.0	55.6	0.0
42.5°	158.1	106.9	58.6	0.0
40°	165.4	109.8	60.0	0.0
37.5°	172.8	112.7	63.0	0.0
35°	180.1	115.7	64.4	0.0
32.5°	185.9	118.6	65.9	0.0
30°	191.8	121.5	67.3	0.0
27.5°	197.7	123.0	68.8	0.0
25°	202.0	125.9	70.3	0.0
22.5°	206.4	127.4	71.7	0.0
20°	209.4	128.8	73.2	0.0
17.5°	213.8	130.3	74.7	0.0
15°	215.2	131.8	77.6	0.0
12.5°	218.2	133.2	77.6	0.0
10°	219.6	134.7	77.6	0.0
7.5°	222.5	134.7	77.6	0.0
5°	221.1	134.7	77.6	0.0
2.5°	221.1	134.7	77.6	0.0
0°	219.6	134.7	77.6	0.0

(END OF REPORT)