

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: P628243

Luminaire Tested: **IFLD-S-SA3B-735-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628243
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

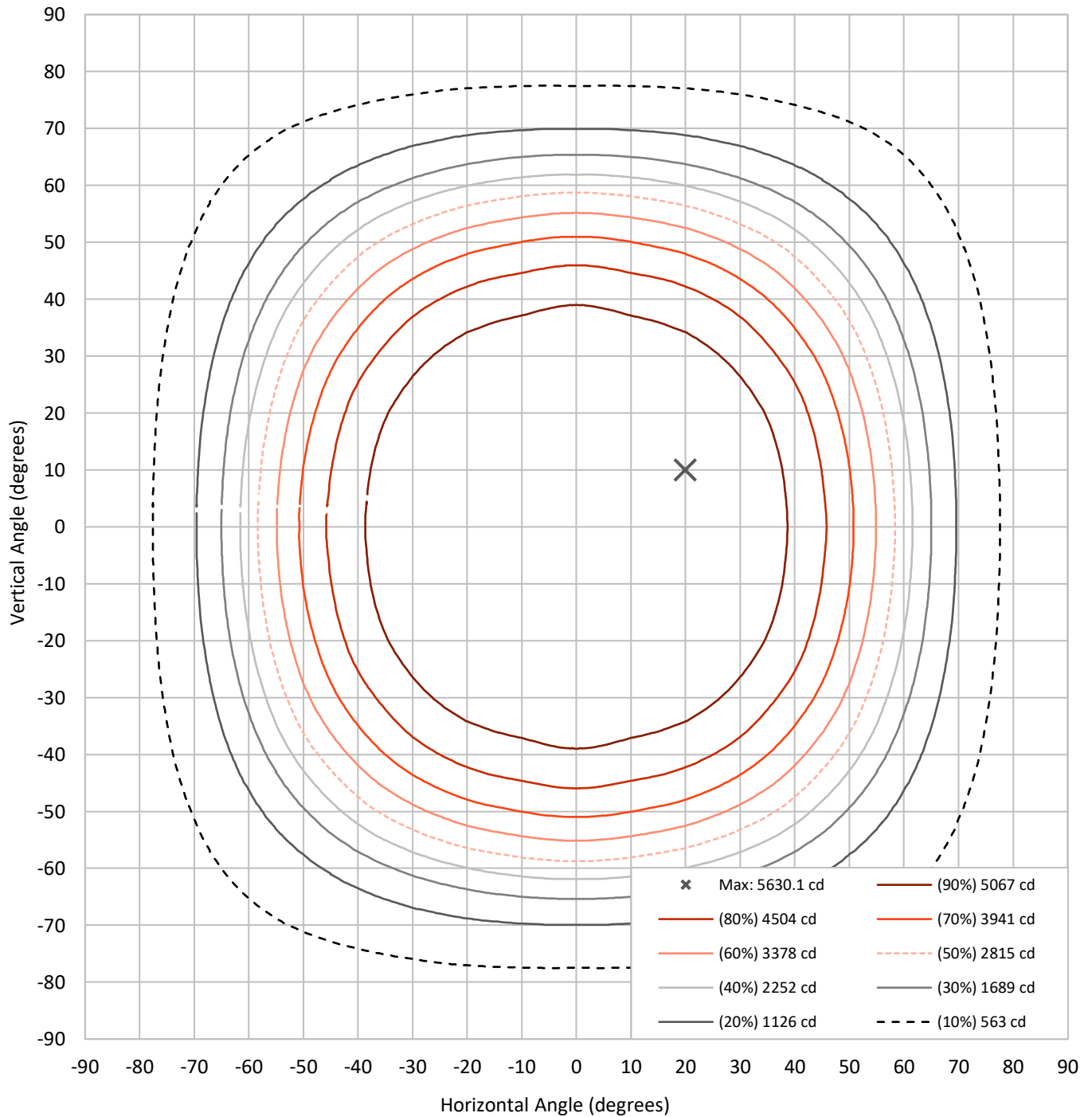
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17272.3 lumens	Max Intensity:	5630.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	141.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	10598.6 lumens	Field Lumens:	12706 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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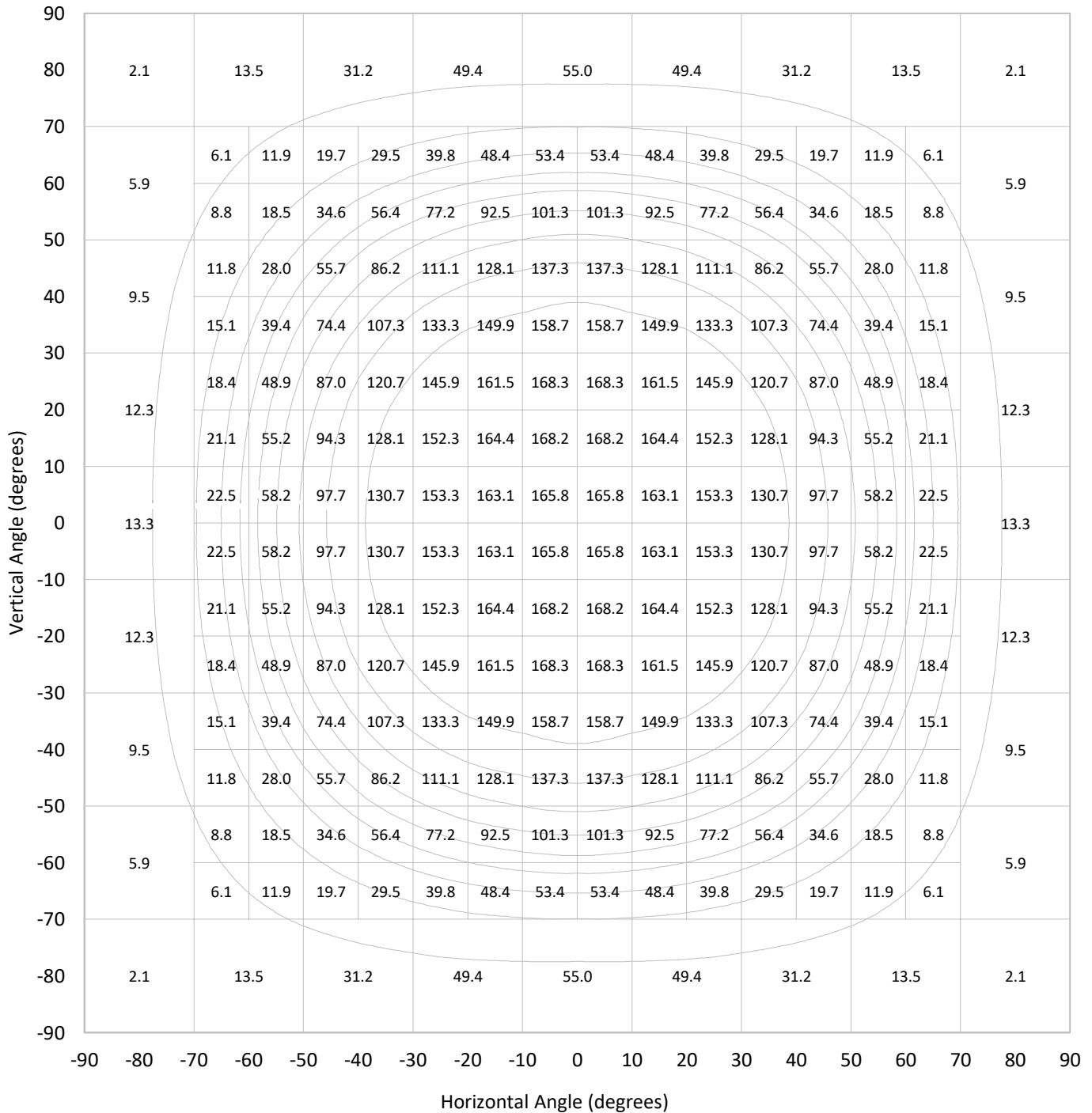
Iso-Candela Plot





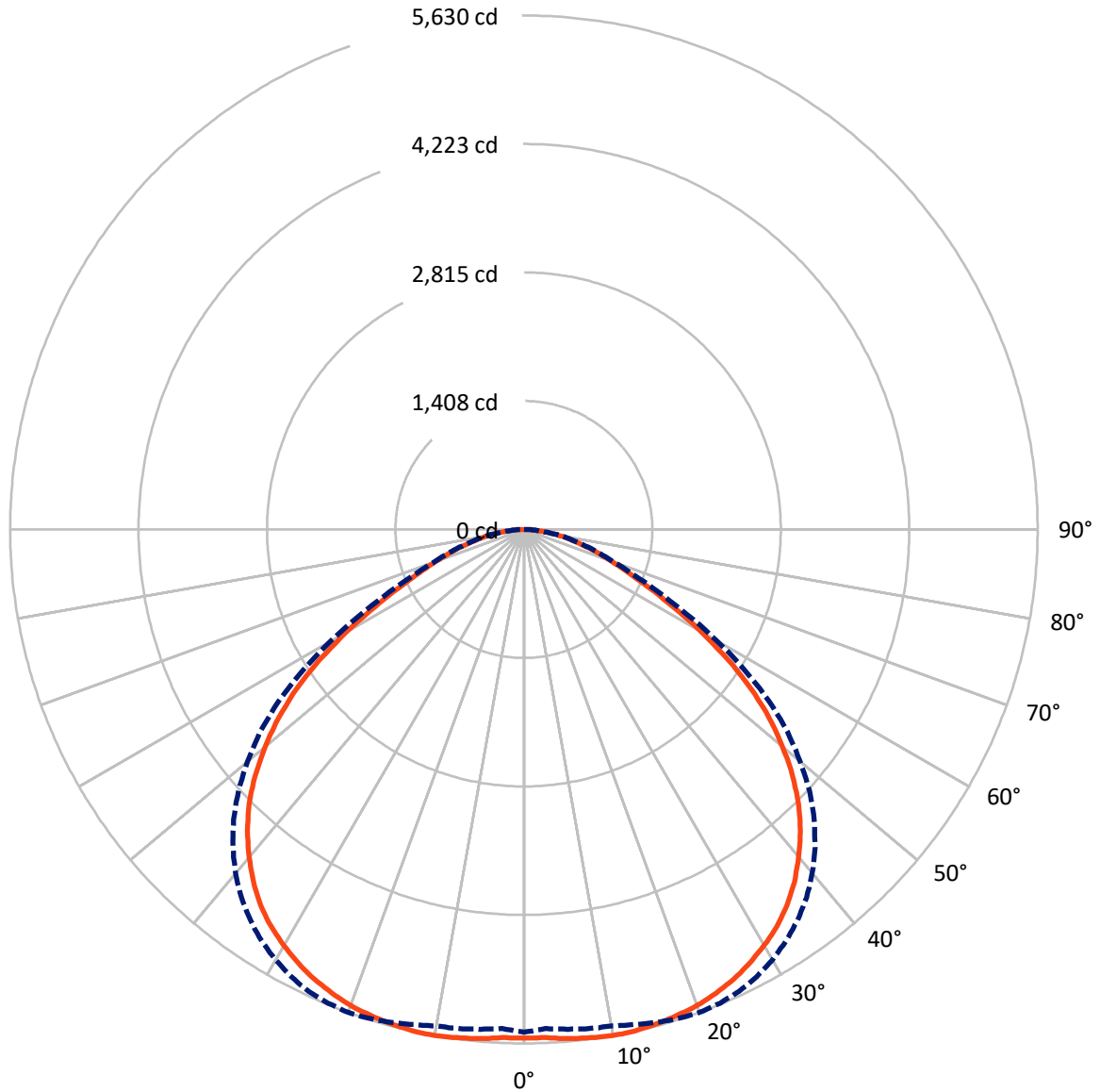
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Lumen Table



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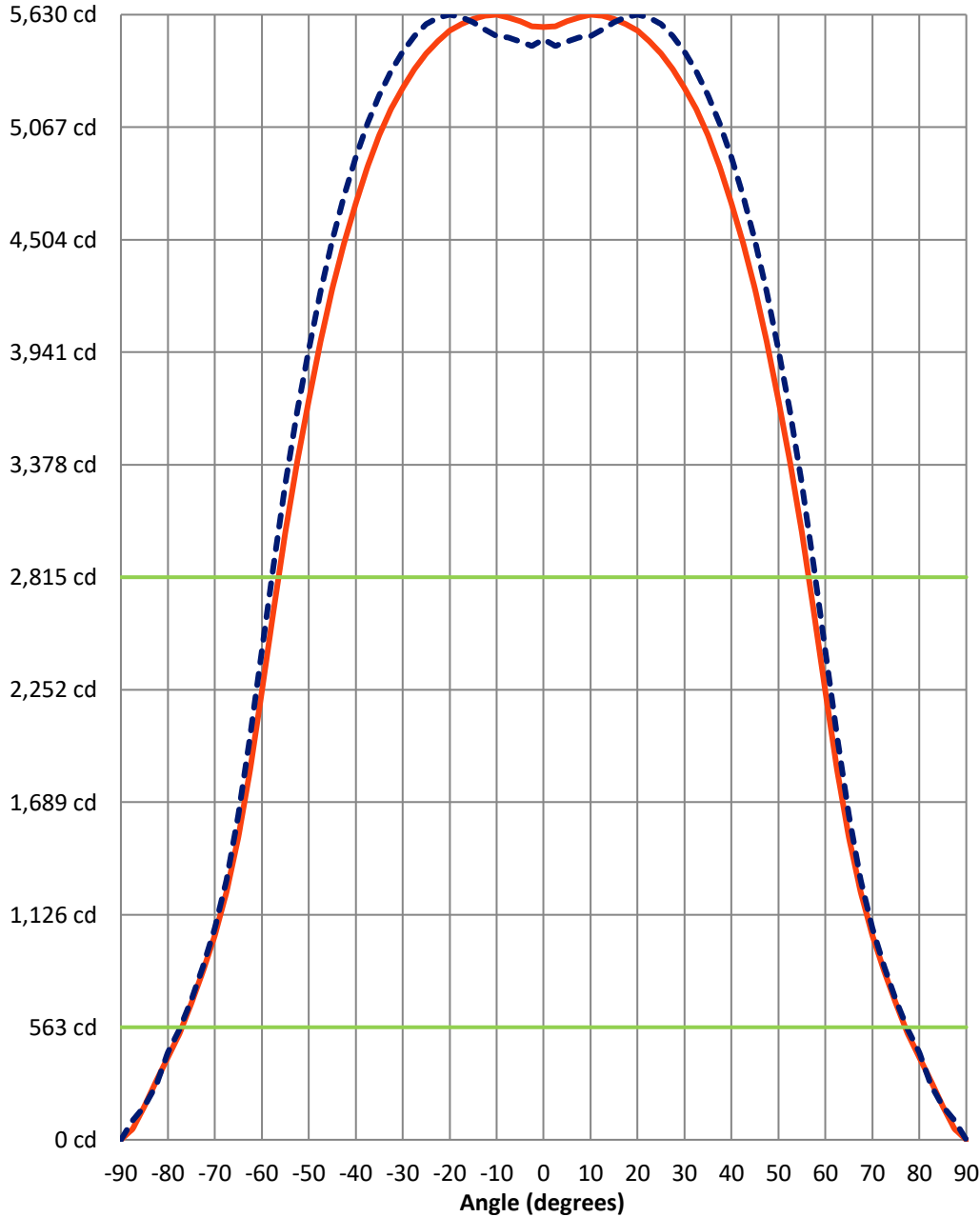
Luminous Intensity Polar Plot



— 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: 10598.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 12706
 Efficiency: 73.6%

Spill:
 Lumens: 4566.3
 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°	45.4	49.1	50.9	52.7	54.5	56.3	58.2	56.3	54.5	54.5	52.7
85°	121.8	125.4	127.2	139.9	152.7	159.9	169.0	167.2	167.2	165.4	163.6
82.5°	243.5	254.4	263.5	276.2	283.5	294.4	301.7	296.2	292.6	285.3	279.9
80°	432.5	436.2	438.0	439.8	430.7	428.9	425.3	419.8	412.5	403.4	394.4
77.5°	550.7	554.3	557.9	554.3	552.5	550.7	545.2	539.7	532.5	525.2	514.3
75°	728.7	728.7	728.7	723.3	719.7	714.2	705.1	696.0	683.3	668.8	652.4
72.5°	917.8	915.9	914.1	903.2	894.1	883.2	870.5	859.6	845.1	828.7	806.9
70°	1115.8	1119.5	1121.3	1106.8	1095.8	1081.3	1065.0	1045.0	1023.2	999.5	968.6
67.5°	1388.4	1384.8	1381.2	1361.2	1346.6	1326.6	1303.0	1273.9	1241.2	1204.9	1161.3
65°	1726.5	1731.9	1721.0	1701.0	1673.8	1641.0	1604.7	1562.9	1513.8	1459.3	1397.5
62.5°	2135.4	2144.4	2131.7	2106.3	2071.8	2028.1	1977.3	1917.3	1850.0	1773.7	1697.4
60°	2600.6	2598.8	2575.2	2540.6	2495.2	2440.7	2384.3	2318.9	2242.6	2153.5	2060.8
57.5°	3027.7	3024.0	2995.0	2960.4	2915.0	2856.8	2796.9	2727.8	2647.8	2553.3	2446.1
55°	3411.1	3407.5	3378.4	3342.1	3294.8	3236.7	3182.1	3116.7	3038.6	2938.6	2824.1
52.5°	3751.0	3752.8	3727.3	3687.4	3636.5	3580.1	3527.4	3462.0	3387.5	3287.5	3176.7
50°	4063.5	4061.7	4034.5	3998.1	3950.9	3896.3	3843.6	3778.2	3700.1	3603.8	3496.5
47.5°	4354.3	4350.7	4319.8	4279.8	4230.7	4183.5	4134.4	4076.3	3994.5	3898.2	3790.9
45°	4597.8	4590.6	4559.7	4521.5	4474.3	4432.5	4388.8	4345.2	4258.0	4168.9	4067.2
42.5°	4806.8	4805.0	4774.1	4736.0	4688.7	4652.4	4612.4	4557.9	4485.2	4403.4	4303.4
40°	5006.7	4992.2	4961.3	4925.0	4881.3	4850.4	4810.5	4755.9	4685.1	4605.1	4508.8
37.5°	5155.8	5157.6	5124.9	5084.9	5046.7	5017.6	4981.3	4930.4	4868.6	4790.5	4694.2
35°	5297.5	5288.4	5261.2	5226.6	5192.1	5159.4	5121.2	5077.6	5026.7	4954.0	4863.2
32.5°	5390.2	5402.9	5370.2	5333.9	5313.9	5288.4	5248.4	5203.0	5157.6	5084.9	5003.1
30°	5492.0	5481.1	5455.6	5424.7	5410.2	5393.8	5359.3	5315.7	5263.0	5197.6	5121.2
27.5°	5562.8	5557.4	5526.5	5497.4	5490.1	5475.6	5448.3	5410.2	5357.5	5293.9	5223.0
25°	5593.7	5597.4	5568.3	5551.9	5551.9	5542.8	5521.0	5488.3	5435.6	5377.5	5308.4
22.5°	5608.3	5604.6	5584.6	5581.0	5590.1	5582.8	5573.7	5544.7	5497.4	5450.2	5392.0
20°	5617.4	5591.9	5573.7	5588.3	5599.2	5597.4	5590.1	5571.9	5550.1	5510.1	5459.3
17.5°	5597.4	5581.0	5559.2	5581.0	5604.6	5606.5	5599.2	5588.3	5582.8	5557.4	5512.0
15°	5548.3	5535.6	5539.2	5561.0	5588.3	5597.4	5602.8	5615.5	5608.3	5588.3	5548.3
12.5°	5515.6	5499.2	5515.6	5537.4	5551.9	5557.4	5601.0	5624.6	5624.6	5606.5	5581.0
10°	5506.5	5473.8	5495.6	5515.6	5522.9	5555.6	5591.9	5617.4	5630.1	5615.5	5582.8
7.5°	5488.3	5466.5	5475.6	5484.7	5526.5	5550.1	5570.1	5597.4	5615.5	5613.7	5584.6
5°	5479.2	5452.0	5455.6	5493.8	5522.9	5539.2	5546.5	5570.1	5597.4	5602.8	5581.0
2.5°	5455.6	5442.9	5470.2	5473.8	5495.6	5508.3	5515.6	5537.4	5571.9	5584.6	5575.6
0°	5442.9	5424.7	5406.5	5421.1	5457.4	5484.7	5495.6	5528.3	5568.3	5581.0	5561.0



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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°	50.9	49.1	47.3	45.4	47.3	47.3	47.3	45.4	47.3	45.4	45.4
85°	158.1	150.8	145.4	138.1	130.8	125.4	118.1	110.9	109.0	107.2	103.6
82.5°	272.6	263.5	254.4	243.5	232.6	219.9	207.2	192.6	189.0	185.4	179.9
80°	383.5	370.7	358.0	345.3	334.4	321.7	307.1	290.8	279.9	270.8	259.9
77.5°	499.8	481.6	463.4	441.6	428.9	416.2	401.6	385.3	368.9	354.4	338.0
75°	632.4	612.4	594.3	572.5	548.8	525.2	501.6	479.8	456.1	434.3	412.5
72.5°	779.6	750.6	721.5	694.2	665.1	636.1	605.2	576.1	547.0	517.9	487.0
70°	934.1	897.8	861.4	825.1	786.9	748.7	712.4	676.0	639.7	601.5	567.0
67.5°	1115.8	1074.0	1026.8	975.9	919.6	870.5	823.2	779.6	736.0	692.4	648.8
65°	1343.0	1284.9	1221.2	1152.2	1086.8	1021.3	952.3	886.9	836.0	785.1	736.0
62.5°	1622.9	1541.1	1452.0	1363.0	1283.0	1197.6	1117.7	1032.2	952.3	879.6	819.6
60°	1957.3	1846.4	1737.4	1622.9	1512.0	1395.7	1293.9	1188.5	1088.6	999.5	912.3
57.5°	2326.2	2197.1	2066.3	1926.4	1775.5	1639.2	1501.1	1363.0	1244.9	1126.7	1028.6
55°	2700.5	2564.2	2417.0	2258.9	2093.6	1919.1	1731.9	1577.4	1415.7	1277.6	1150.4
52.5°	3056.7	2915.0	2762.3	2617.0	2418.9	2219.0	2013.6	1810.1	1621.1	1444.8	1290.3
50°	3374.8	3236.7	3089.5	2920.4	2736.9	2524.3	2295.3	2066.3	1842.8	1635.6	1443.0
47.5°	3665.5	3531.1	3383.9	3214.9	3047.7	2811.4	2580.6	2328.0	2079.0	1841.0	1615.6
45°	3938.1	3801.8	3649.2	3487.5	3294.8	3084.0	2845.9	2591.5	2324.4	2057.2	1797.3
42.5°	4185.3	4049.0	3894.5	3727.3	3536.5	3327.5	3096.7	2840.5	2571.5	2280.7	1995.4
40°	4401.6	4268.9	4119.9	3945.4	3767.3	3547.4	3320.3	3076.7	2798.7	2506.1	2191.7
37.5°	4590.6	4467.0	4319.8	4147.1	3958.1	3761.9	3527.4	3283.9	3033.1	2715.1	2393.4
35°	4757.8	4643.3	4492.4	4328.9	4143.5	3936.3	3716.4	3478.4	3207.6	2909.5	2597.0
32.5°	4903.1	4786.8	4648.7	4485.2	4305.2	4110.8	3885.4	3645.6	3389.3	3085.8	2746.0
30°	5026.7	4914.1	4783.2	4628.7	4456.1	4263.4	4043.6	3801.8	3540.2	3238.5	2902.3
27.5°	5133.9	5026.7	4899.5	4755.9	4590.6	4405.2	4183.5	3940.0	3672.8	3382.0	3045.8
25°	5226.6	5123.0	5004.9	4868.6	4705.1	4523.3	4314.3	4059.9	3792.8	3500.2	3167.6
22.5°	5310.2	5210.3	5092.2	4959.5	4810.5	4628.7	4417.9	4165.3	3894.5	3605.6	3278.5
20°	5384.7	5292.1	5175.7	5039.4	4890.4	4706.9	4497.9	4258.0	3985.4	3701.9	3378.4
17.5°	5444.7	5362.9	5246.6	5103.1	4954.0	4775.9	4572.4	4352.5	4063.5	3783.7	3462.0
15°	5486.5	5406.5	5301.1	5155.8	5010.4	4834.1	4630.5	4403.4	4134.4	3849.1	3531.1
12.5°	5515.6	5430.2	5332.0	5197.6	5052.2	4877.7	4679.6	4456.1	4194.4	3907.3	3591.0
10°	5522.9	5444.7	5346.6	5226.6	5084.9	4915.9	4721.4	4499.7	4243.5	3952.7	3640.1
7.5°	5526.5	5452.0	5362.9	5248.4	5108.5	4944.9	4752.3	4534.2	4279.8	3990.9	3676.5
5°	5524.7	5453.8	5373.8	5263.0	5123.0	4961.3	4772.3	4557.9	4305.2	4016.3	3703.7
2.5°	5519.2	5455.6	5381.1	5273.9	5139.4	4979.5	4792.3	4585.1	4332.5	4038.1	3725.5
0°	5533.8	5479.2	5384.7	5270.2	5143.0	4979.5	4790.5	4588.8	4336.1	4036.3	3723.7



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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°	45.4	43.6	43.6	41.8	40.0	38.2	34.5	32.7	29.1	23.6	18.2
85°	98.1	92.7	87.2	83.6	80.0	76.3	70.9	65.4	58.2	47.3	36.3
82.5°	172.6	161.7	150.8	138.1	127.2	116.3	107.2	98.1	87.2	70.9	54.5
80°	247.2	230.8	214.4	196.3	179.9	161.7	145.4	130.8	116.3	94.5	72.7
77.5°	321.7	299.9	276.2	254.4	230.8	207.2	183.6	163.6	141.8	116.3	90.9
75°	390.7	365.3	343.5	312.6	283.5	252.6	221.7	194.5	167.2	136.3	109.0
72.5°	459.8	427.1	396.2	367.1	334.4	296.2	261.7	227.2	192.6	156.3	123.6
70°	528.8	488.9	450.7	416.2	379.8	341.7	299.9	259.9	218.1	174.5	136.3
67.5°	599.7	554.3	510.7	467.1	425.3	381.6	338.0	292.6	243.5	192.6	150.8
65°	677.9	621.5	568.8	519.8	470.7	423.4	374.4	325.3	270.8	212.6	163.6
62.5°	756.0	694.2	632.4	570.6	516.1	463.4	410.7	356.2	296.2	234.4	176.3
60°	839.6	768.7	697.9	628.8	561.6	503.4	445.2	387.1	323.5	254.4	189.0
57.5°	932.3	846.9	766.9	688.8	612.4	543.4	479.8	418.0	347.1	274.4	203.5
55°	1037.7	932.3	837.8	750.6	667.0	583.4	514.3	450.7	374.4	294.4	219.9
52.5°	1148.6	1026.8	912.3	814.2	725.1	630.6	547.0	476.1	401.6	314.4	234.4
50°	1277.6	1123.1	995.9	876.0	776.0	677.9	581.5	505.2	428.9	338.0	249.0
47.5°	1410.2	1239.4	1079.5	948.6	830.5	723.3	621.5	530.7	454.3	359.8	263.5
45°	1564.7	1350.3	1174.0	1019.5	883.2	770.5	661.5	557.9	476.1	381.6	278.1
42.5°	1713.7	1481.1	1272.1	1097.7	943.2	816.0	697.9	587.0	497.9	403.4	290.8
40°	1890.0	1612.0	1366.6	1172.2	1003.2	859.6	734.2	617.9	517.9	423.4	303.5
37.5°	2059.0	1744.6	1481.1	1254.0	1061.3	903.2	770.5	647.0	536.1	443.4	319.8
35°	2226.2	1891.8	1590.2	1330.3	1121.3	952.3	806.9	674.2	554.3	459.8	334.4
32.5°	2386.2	2030.0	1701.0	1415.7	1186.7	997.7	839.6	699.7	572.5	474.3	348.9
30°	2535.2	2160.8	1810.1	1502.9	1246.7	1039.5	870.5	725.1	594.3	487.0	363.5
27.5°	2671.5	2288.0	1919.1	1584.7	1303.0	1077.7	903.2	748.7	612.4	499.8	376.2
25°	2795.0	2402.5	2019.1	1659.2	1353.9	1119.5	934.1	772.4	628.8	510.7	387.1
22.5°	2911.4	2507.9	2109.9	1733.7	1415.7	1161.3	963.2	794.2	645.2	521.6	398.0
20°	3013.1	2604.2	2197.1	1808.2	1470.2	1199.4	988.6	814.2	659.7	528.8	408.9
17.5°	3094.9	2689.6	2275.3	1873.7	1517.5	1232.1	1010.4	832.3	672.4	537.9	416.2
15°	3167.6	2762.3	2340.7	1930.0	1559.3	1259.4	1030.4	846.9	683.3	543.4	425.3
12.5°	3229.4	2824.1	2397.1	1979.1	1595.6	1283.0	1046.8	857.8	692.4	548.8	430.7
10°	3280.3	2873.2	2444.3	2017.2	1624.7	1301.2	1059.5	868.7	699.7	554.3	436.2
7.5°	3318.4	2909.5	2478.8	2049.9	1648.3	1313.9	1070.4	876.0	706.9	557.9	445.2
5°	3347.5	2940.4	2506.1	2071.8	1666.5	1332.1	1083.1	885.0	714.2	561.6	445.2
2.5°	3369.3	2965.9	2527.9	2089.9	1681.0	1328.5	1083.1	883.2	714.2	561.6	443.4
0°	3365.7	2967.7	2526.1	2089.9	1681.0	1324.8	1083.1	881.4	714.2	561.6	443.4



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.7	9.1	3.6	0.0
85°	27.3	18.2	9.1	0.0
82.5°	40.0	25.4	12.7	0.0
80°	52.7	34.5	16.4	0.0
77.5°	67.2	43.6	21.8	0.0
75°	80.0	50.9	25.4	0.0
72.5°	92.7	60.0	29.1	0.0
70°	103.6	67.2	32.7	0.0
67.5°	114.5	76.3	38.2	0.0
65°	123.6	83.6	41.8	0.0
62.5°	130.8	92.7	45.4	0.0
60°	139.9	100.0	49.1	0.0
57.5°	147.2	105.4	52.7	0.0
55°	154.5	109.0	56.3	0.0
52.5°	161.7	114.5	60.0	0.0
50°	169.0	119.9	63.6	0.0
47.5°	176.3	123.6	65.4	0.0
45°	187.2	129.0	69.1	0.0
42.5°	196.3	132.7	72.7	0.0
40°	205.4	136.3	74.5	0.0
37.5°	214.4	139.9	78.1	0.0
35°	223.5	143.6	80.0	0.0
32.5°	230.8	147.2	81.8	0.0
30°	238.1	150.8	83.6	0.0
27.5°	245.3	152.7	85.4	0.0
25°	250.8	156.3	87.2	0.0
22.5°	256.2	158.1	89.0	0.0
20°	259.9	159.9	90.9	0.0
17.5°	265.3	161.7	92.7	0.0
15°	267.1	163.6	96.3	0.0
12.5°	270.8	165.4	96.3	0.0
10°	272.6	167.2	96.3	0.0
7.5°	276.2	167.2	96.3	0.0
5°	274.4	167.2	96.3	0.0
2.5°	274.4	167.2	96.3	0.0
0°	272.6	167.2	96.3	0.0

(END OF REPORT)