

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: P628178

Luminaire Tested: **IFLD-L-SA8D-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628178
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

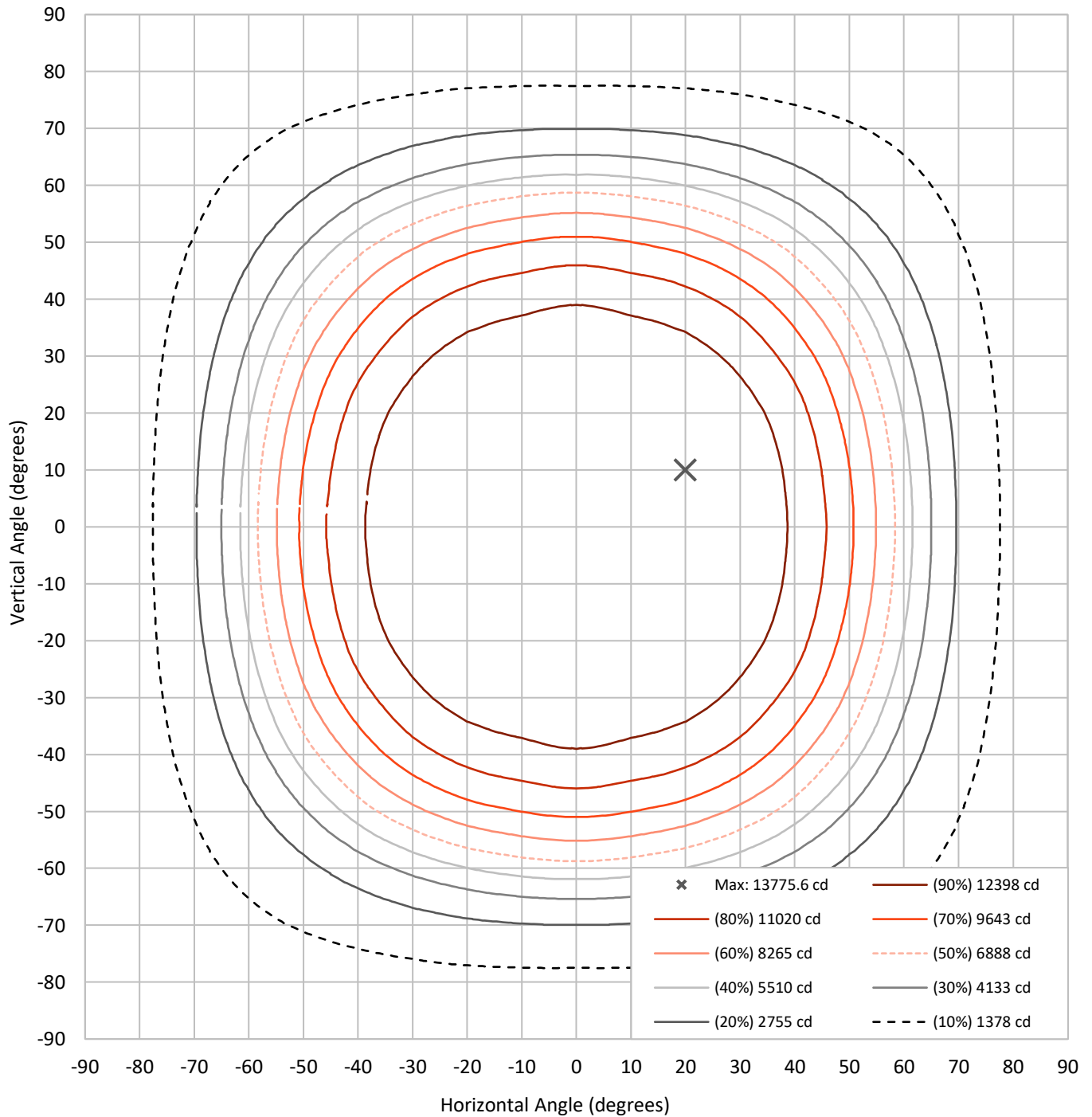
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	42261.6 lumens	Max Intensity:	13775.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	86.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	25932.6 lumens	Field Lumens:	31088.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 488.3
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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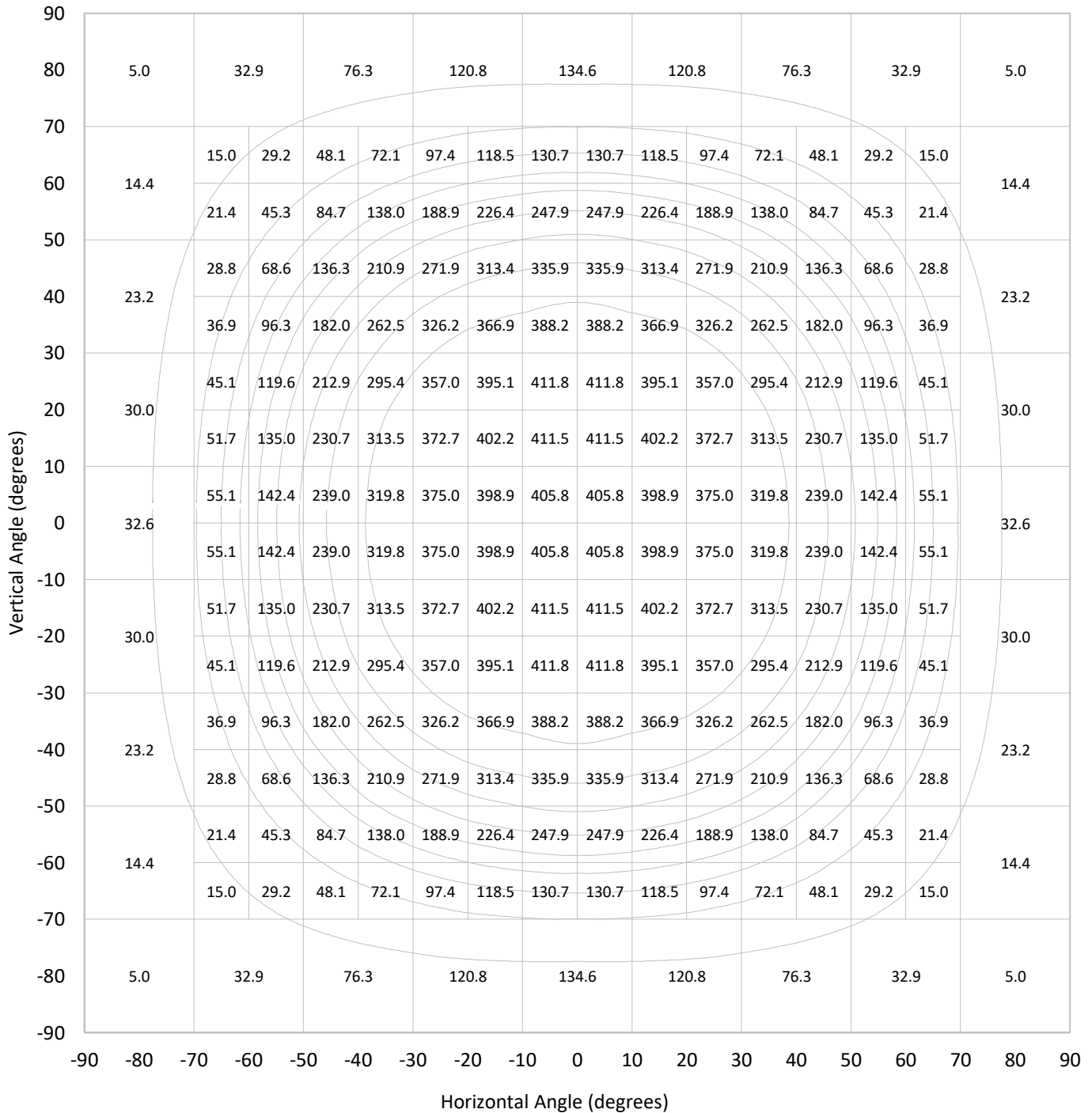
Iso-Candela Plot





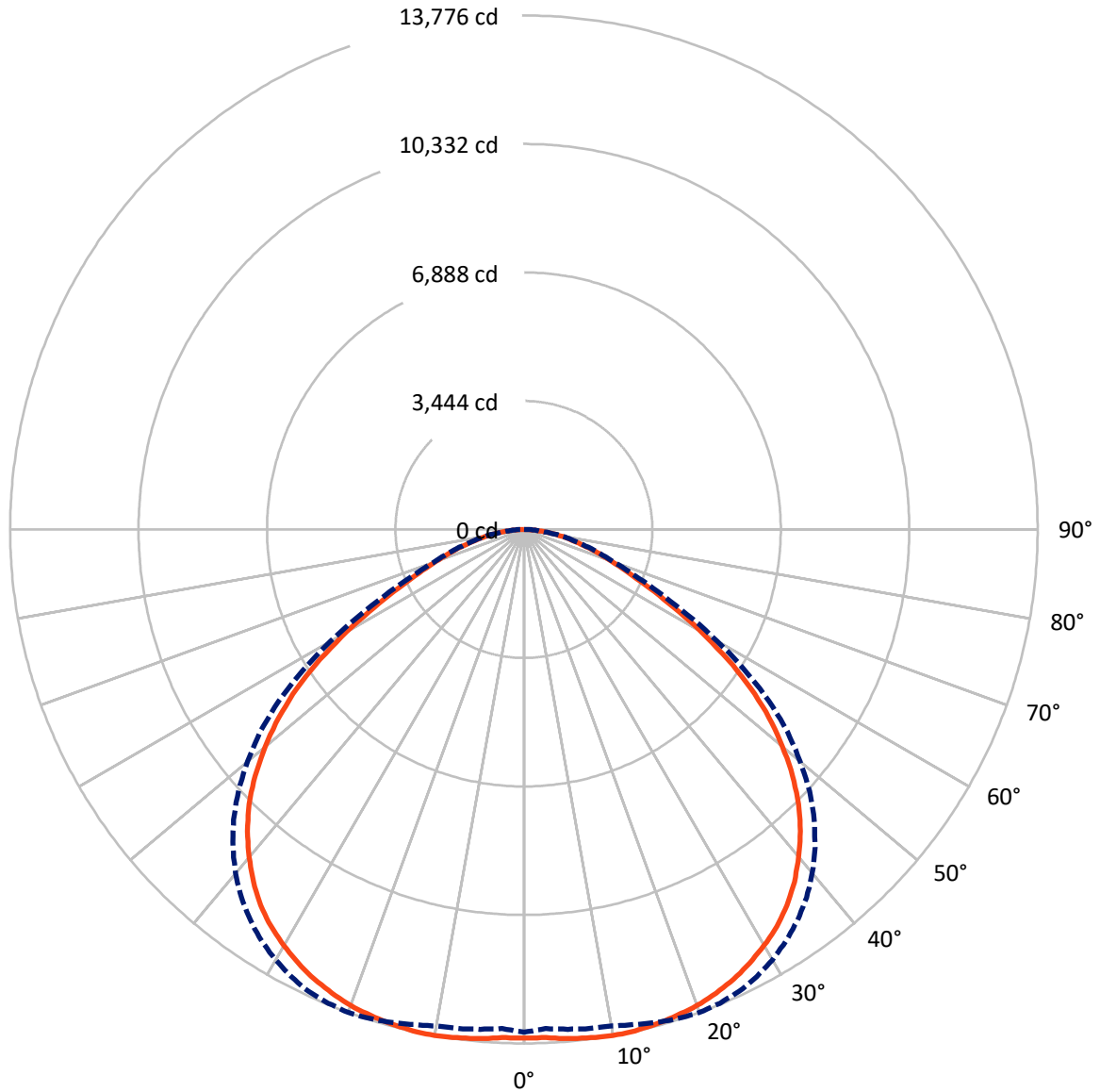
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Lumen Table



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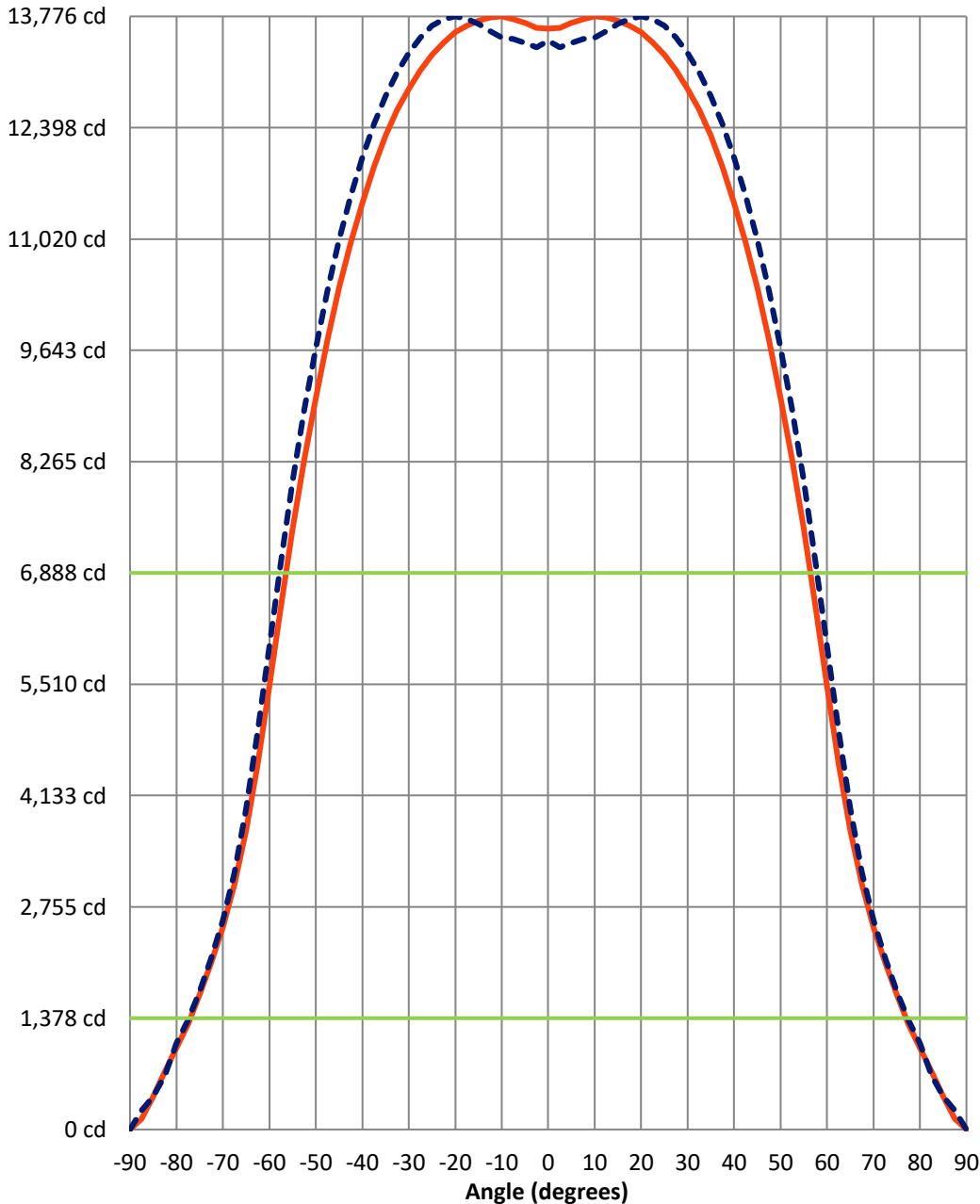
Luminous Intensity Polar Plot



— 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: 25932.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 31088.7
 Efficiency: 73.6%

Spill:
 Lumens: 11172.8
 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°	111.2	120.1	124.5	129.0	133.4	137.8	142.3	137.8	133.4	133.4	129.0
85°	297.9	306.8	311.3	342.4	373.5	391.3	413.5	409.1	409.1	404.6	400.2
82.5°	595.8	622.5	644.8	675.9	693.7	720.3	738.1	724.8	715.9	698.1	684.8
80°	1058.3	1067.2	1071.6	1076.1	1053.8	1049.4	1040.5	1027.2	1009.4	987.1	964.9
77.5°	1347.3	1356.2	1365.1	1356.2	1351.8	1347.3	1334.0	1320.6	1302.9	1285.1	1258.4
75°	1783.1	1783.1	1783.1	1769.7	1760.9	1747.5	1725.3	1703.0	1671.9	1636.3	1596.3
72.5°	2245.5	2241.1	2236.6	2210.0	2187.7	2161.0	2129.9	2103.2	2067.7	2027.7	1974.3
70°	2730.2	2739.1	2743.6	2708.0	2681.3	2645.7	2605.7	2556.8	2503.4	2445.6	2370.0
67.5°	3397.2	3388.3	3379.4	3330.5	3294.9	3246.0	3188.2	3117.1	3037.0	2948.1	2841.4
65°	4224.3	4237.6	4210.9	4162.0	4095.3	4015.3	3926.4	3824.1	3704.0	3570.6	3419.4
62.5°	5224.8	5247.0	5215.9	5153.6	5069.1	4962.4	4837.9	4691.2	4526.6	4339.9	4153.1
60°	6363.1	6358.6	6300.8	6216.4	6105.2	5971.8	5833.9	5673.9	5487.1	5269.2	5042.4
57.5°	7408.0	7399.1	7328.0	7243.5	7132.4	6990.1	6843.3	6674.4	6478.7	6247.5	5985.1
55°	8346.3	8337.4	8266.2	8177.3	8061.7	7919.4	7786.0	7625.9	7434.7	7190.2	6910.0
52.5°	9177.8	9182.2	9120.0	9022.2	8897.7	8759.8	8630.9	8470.8	8288.5	8043.9	7772.7
50°	9942.6	9938.2	9871.5	9782.5	9666.9	9533.5	9404.6	9244.5	9053.3	8817.6	8555.3
47.5°	10654.1	10645.2	10569.6	10471.8	10351.7	10236.1	10116.0	9973.7	9773.6	9538.0	9275.6
45°	11249.9	11232.1	11156.5	11063.1	10947.5	10845.3	10738.5	10631.8	10418.4	10200.5	9951.5
42.5°	11761.3	11756.8	11681.2	11587.8	11472.2	11383.3	11285.5	11152.1	10974.2	10774.1	10529.6
40°	12250.4	12214.8	12139.2	12050.3	11943.6	11868.0	11770.2	11636.8	11463.3	11267.7	11032.0
37.5°	12615.0	12619.5	12539.4	12441.6	12348.2	12277.1	12188.1	12063.6	11912.4	11721.2	11485.6
35°	12961.8	12939.6	12872.9	12788.4	12703.9	12623.9	12530.5	12423.8	12299.3	12121.4	11899.1
32.5°	13188.6	13219.8	13139.7	13050.8	13001.9	12939.6	12841.8	12730.6	12619.5	12441.6	12241.5
30°	13437.6	13411.0	13348.7	13273.1	13237.5	13197.5	13113.0	13006.3	12877.4	12717.3	12530.5
27.5°	13611.1	13597.7	13522.1	13451.0	13433.2	13397.6	13330.9	13237.5	13108.6	12953.0	12779.5
25°	13686.6	13695.5	13624.4	13584.4	13584.4	13562.1	13508.8	13428.7	13299.8	13157.5	12988.5
22.5°	13722.2	13713.3	13664.4	13655.5	13677.8	13660.0	13637.7	13566.6	13451.0	13335.4	13193.1
20°	13744.5	13682.2	13637.7	13673.3	13700.0	13695.5	13677.8	13633.3	13579.9	13482.1	13357.6
17.5°	13695.5	13655.5	13602.2	13655.5	13713.3	13717.8	13700.0	13673.3	13660.0	13597.7	13486.5
15°	13575.5	13544.4	13553.2	13606.6	13673.3	13695.5	13708.9	13740.0	13722.2	13673.3	13575.5
12.5°	13495.4	13455.4	13495.4	13548.8	13584.4	13597.7	13704.4	13762.2	13762.2	13717.8	13655.5
10°	13473.2	13393.2	13446.5	13495.4	13513.2	13593.3	13682.2	13744.5	13775.6	13740.0	13660.0
7.5°	13428.7	13375.4	13397.6	13419.8	13522.1	13579.9	13628.8	13695.5	13740.0	13735.6	13664.4
5°	13406.5	13339.8	13348.7	13442.1	13513.2	13553.2	13571.0	13628.8	13695.5	13708.9	13655.5
2.5°	13348.7	13317.6	13384.3	13393.2	13446.5	13477.7	13495.4	13548.8	13633.3	13664.4	13642.2
0°	13317.6	13273.1	13228.6	13264.2	13353.1	13419.8	13446.5	13526.6	13624.4	13655.5	13606.6



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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°	124.5	120.1	115.6	111.2	115.6	115.6	115.6	111.2	115.6	111.2	111.2
85°	386.9	369.1	355.7	337.9	320.2	306.8	289.0	271.2	266.8	262.3	253.5
82.5°	667.0	644.8	622.5	595.8	569.2	538.0	506.9	471.3	462.4	453.6	440.2
80°	938.2	907.1	876.0	844.9	818.2	787.0	751.5	711.5	684.8	662.5	635.9
77.5°	1222.8	1178.3	1133.9	1080.5	1049.4	1018.3	982.7	942.7	902.7	867.1	827.1
75°	1547.4	1498.5	1454.0	1400.7	1342.9	1285.1	1227.3	1173.9	1116.1	1062.7	1009.4
72.5°	1907.6	1836.4	1765.3	1698.6	1627.5	1556.3	1480.7	1409.6	1338.4	1267.3	1191.7
70°	2285.6	2196.6	2107.7	2018.8	1925.4	1832.0	1743.1	1654.1	1565.2	1471.8	1387.3
67.5°	2730.2	2627.9	2512.3	2387.8	2250.0	2129.9	2014.3	1907.6	1800.9	1694.2	1587.4
65°	3286.0	3143.7	2988.1	2819.1	2659.1	2499.0	2330.0	2169.9	2045.4	1920.9	1800.9
62.5°	3970.8	3770.7	3552.8	3335.0	3139.3	2930.3	2734.7	2525.7	2330.0	2152.2	2005.4
60°	4789.0	4517.7	4251.0	3970.8	3699.6	3415.0	3166.0	2908.1	2663.5	2445.6	2232.2
57.5°	5691.7	5375.9	5055.8	4713.4	4344.3	4010.8	3672.9	3335.0	3045.9	2756.9	2516.8
55°	6607.7	6274.2	5914.0	5527.1	5122.5	4695.6	4237.6	3859.7	3463.9	3126.0	2814.7
52.5°	7479.2	7132.4	6758.8	6403.1	5918.4	5429.3	4926.8	4428.8	3966.4	3535.0	3157.1
50°	8257.3	7919.4	7559.2	7145.7	6696.6	6176.3	5616.1	5055.8	4508.9	4001.9	3530.6
47.5°	8968.8	8639.7	8279.6	7866.0	7457.0	6878.9	6314.2	5696.1	5086.9	4504.4	3953.0
45°	9635.8	9302.3	8928.8	8533.0	8061.7	7545.9	6963.4	6340.9	5687.2	5033.6	4397.7
42.5°	10240.5	9907.0	9529.1	9120.0	8653.1	8141.7	7577.0	6950.0	6291.9	5580.5	4882.4
40°	10769.7	10445.1	10080.4	9653.6	9217.8	8679.8	8123.9	7528.1	6847.8	6131.9	5362.6
37.5°	11232.1	10929.8	10569.6	10147.1	9684.7	9204.5	8630.9	8035.0	7421.4	6643.2	5856.2
35°	11641.2	11361.1	10992.0	10591.8	10138.3	9631.3	9093.3	8510.8	7848.3	7119.0	6354.2
32.5°	11996.9	11712.4	11374.4	10974.2	10534.0	10058.2	9506.8	8919.9	8292.9	7550.3	6718.8
30°	12299.3	12023.6	11703.5	11325.5	10903.1	10431.7	9893.7	9302.3	8662.0	7923.8	7101.2
27.5°	12561.7	12299.3	11988.0	11636.8	11232.1	10778.6	10236.1	9640.2	8986.6	8275.1	7452.5
25°	12788.4	12535.0	12245.9	11912.4	11512.3	11067.6	10556.2	9933.7	9280.1	8564.2	7750.4
22.5°	12993.0	12748.4	12459.4	12134.8	11770.2	11325.5	10809.7	10191.6	9529.1	8822.1	8021.7
20°	13175.3	12948.5	12663.9	12330.4	11965.8	11516.7	11005.3	10418.4	9751.4	9057.7	8266.2
17.5°	13322.0	13121.9	12837.3	12486.1	12121.4	11685.7	11187.7	10649.6	9942.6	9257.8	8470.8
15°	13424.3	13228.6	12970.7	12615.0	12259.3	11828.0	11329.9	10774.1	10116.0	9417.9	8639.7
12.5°	13495.4	13286.5	13046.3	12717.3	12361.6	11934.7	11450.0	10903.1	10262.8	9560.2	8786.5
10°	13513.2	13322.0	13081.9	12788.4	12441.6	12028.1	11552.3	11009.8	10382.8	9671.4	8906.5
7.5°	13522.1	13339.8	13121.9	12841.8	12499.4	12099.2	11627.9	11094.3	10471.8	9764.7	8995.5
5°	13517.7	13344.3	13148.6	12877.4	12535.0	12139.2	11676.8	11152.1	10534.0	9827.0	9062.2
2.5°	13504.3	13348.7	13166.4	12904.0	12575.0	12183.7	11725.7	11218.8	10600.7	9880.4	9115.5
0°	13539.9	13406.5	13175.3	12895.1	12583.9	12183.7	11721.2	11227.7	10609.6	9875.9	9111.1



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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°	111.2	106.7	106.7	102.3	97.8	93.4	84.5	80.0	71.1	57.8	44.5
85°	240.1	226.8	213.4	204.5	195.7	186.8	173.4	160.1	142.3	115.6	88.9
82.5°	422.4	395.7	369.1	337.9	311.3	284.6	262.3	240.1	213.4	173.4	133.4
80°	604.7	564.7	524.7	480.2	440.2	395.7	355.7	320.2	284.6	231.2	177.9
77.5°	787.0	733.7	675.9	622.5	564.7	506.9	449.1	400.2	346.8	284.6	222.3
75°	956.0	893.8	840.4	764.8	693.7	618.1	542.5	475.8	409.1	333.5	266.8
72.5°	1125.0	1045.0	969.4	898.2	818.2	724.8	640.3	555.8	471.3	382.4	302.4
70°	1294.0	1196.1	1102.8	1018.3	929.3	836.0	733.7	635.9	533.6	426.9	333.5
67.5°	1467.4	1356.2	1249.5	1142.8	1040.5	933.8	827.1	715.9	595.8	471.3	369.1
65°	1658.6	1520.7	1391.8	1271.7	1151.7	1036.1	916.0	795.9	662.5	520.3	400.2
62.5°	1849.8	1698.6	1547.4	1396.2	1262.8	1133.9	1004.9	871.5	724.8	573.6	431.3
60°	2054.3	1880.9	1707.5	1538.5	1374.0	1231.7	1089.4	947.1	791.5	622.5	462.4
57.5°	2281.1	2072.1	1876.5	1685.3	1498.5	1329.5	1173.9	1022.7	849.3	671.4	498.0
55°	2539.0	2281.1	2049.9	1836.4	1631.9	1427.4	1258.4	1102.8	916.0	720.3	538.0
52.5°	2810.3	2512.3	2232.2	1992.1	1774.2	1543.0	1338.4	1165.0	982.7	769.3	573.6
50°	3126.0	2748.0	2436.7	2143.3	1898.7	1658.6	1422.9	1236.2	1049.4	827.1	609.2
47.5°	3450.6	3032.6	2641.3	2321.1	2032.1	1769.7	1520.7	1298.4	1111.7	880.4	644.8
45°	3828.5	3303.8	2872.5	2494.5	2161.0	1885.4	1618.6	1365.1	1165.0	933.8	680.3
42.5°	4193.1	3624.0	3112.6	2685.7	2307.8	1996.5	1707.5	1436.3	1218.4	987.1	711.5
40°	4624.5	3944.1	3343.8	2868.1	2454.5	2103.2	1796.4	1511.8	1267.3	1036.1	742.6
37.5°	5038.0	4268.7	3624.0	3068.2	2596.8	2210.0	1885.4	1583.0	1311.7	1085.0	782.6
35°	5447.1	4628.9	3890.8	3254.9	2743.6	2330.0	1974.3	1649.7	1356.2	1125.0	818.2
32.5°	5838.4	4966.9	4162.0	3463.9	2903.6	2441.2	2054.3	1711.9	1400.7	1160.6	853.7
30°	6203.0	5287.0	4428.8	3677.3	3050.4	2543.5	2129.9	1774.2	1454.0	1191.7	889.3
27.5°	6536.5	5598.3	4695.6	3877.4	3188.2	2636.8	2210.0	1832.0	1498.5	1222.8	920.4
25°	6838.9	5878.4	4940.2	4059.7	3312.7	2739.1	2285.6	1889.8	1538.5	1249.5	947.1
22.5°	7123.5	6136.3	5162.5	4242.1	3463.9	2841.4	2356.7	1943.2	1578.5	1276.2	973.8
20°	7372.5	6372.0	5375.9	4424.4	3597.3	2934.8	2419.0	1992.1	1614.1	1294.0	1000.5
17.5°	7572.6	6581.0	5567.1	4584.4	3712.9	3014.8	2472.3	2036.5	1645.2	1316.2	1018.3
15°	7750.4	6758.8	5727.2	4722.3	3815.2	3081.5	2521.2	2072.1	1671.9	1329.5	1040.5
12.5°	7901.6	6910.0	5865.1	4842.4	3904.1	3139.3	2561.2	2098.8	1694.2	1342.9	1053.8
10°	8026.1	7030.1	5980.7	4935.7	3975.3	3183.8	2592.4	2125.5	1711.9	1356.2	1067.2
7.5°	8119.5	7119.0	6065.2	5015.8	4033.1	3214.9	2619.0	2143.3	1729.7	1365.1	1089.4
5°	8190.6	7194.6	6131.9	5069.1	4077.5	3259.4	2650.2	2165.5	1747.5	1374.0	1089.4
2.5°	8244.0	7256.9	6185.2	5113.6	4113.1	3250.5	2650.2	2161.0	1747.5	1374.0	1085.0
0°	8235.1	7261.3	6180.8	5113.6	4113.1	3241.6	2650.2	2156.6	1747.5	1374.0	1085.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	31.1	22.2	8.9	0.0
85°	66.7	44.5	22.2	0.0
82.5°	97.8	62.3	31.1	0.0
80°	129.0	84.5	40.0	0.0
77.5°	164.5	106.7	53.4	0.0
75°	195.7	124.5	62.3	0.0
72.5°	226.8	146.7	71.1	0.0
70°	253.5	164.5	80.0	0.0
67.5°	280.1	186.8	93.4	0.0
65°	302.4	204.5	102.3	0.0
62.5°	320.2	226.8	111.2	0.0
60°	342.4	244.6	120.1	0.0
57.5°	360.2	257.9	129.0	0.0
55°	378.0	266.8	137.8	0.0
52.5°	395.7	280.1	146.7	0.0
50°	413.5	293.5	155.6	0.0
47.5°	431.3	302.4	160.1	0.0
45°	458.0	315.7	169.0	0.0
42.5°	480.2	324.6	177.9	0.0
40°	502.5	333.5	182.3	0.0
37.5°	524.7	342.4	191.2	0.0
35°	546.9	351.3	195.7	0.0
32.5°	564.7	360.2	200.1	0.0
30°	582.5	369.1	204.5	0.0
27.5°	600.3	373.5	209.0	0.0
25°	613.6	382.4	213.4	0.0
22.5°	627.0	386.9	217.9	0.0
20°	635.9	391.3	222.3	0.0
17.5°	649.2	395.7	226.8	0.0
15°	653.7	400.2	235.7	0.0
12.5°	662.5	404.6	235.7	0.0
10°	667.0	409.1	235.7	0.0
7.5°	675.9	409.1	235.7	0.0
5°	671.4	409.1	235.7	0.0
2.5°	671.4	409.1	235.7	0.0
0°	667.0	409.1	235.7	0.0

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