

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: P628278

Luminaire Tested: **IFLD-S-SA6C-740-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628278
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	42763.9 lumens	Max Intensity:	13939.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	133.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

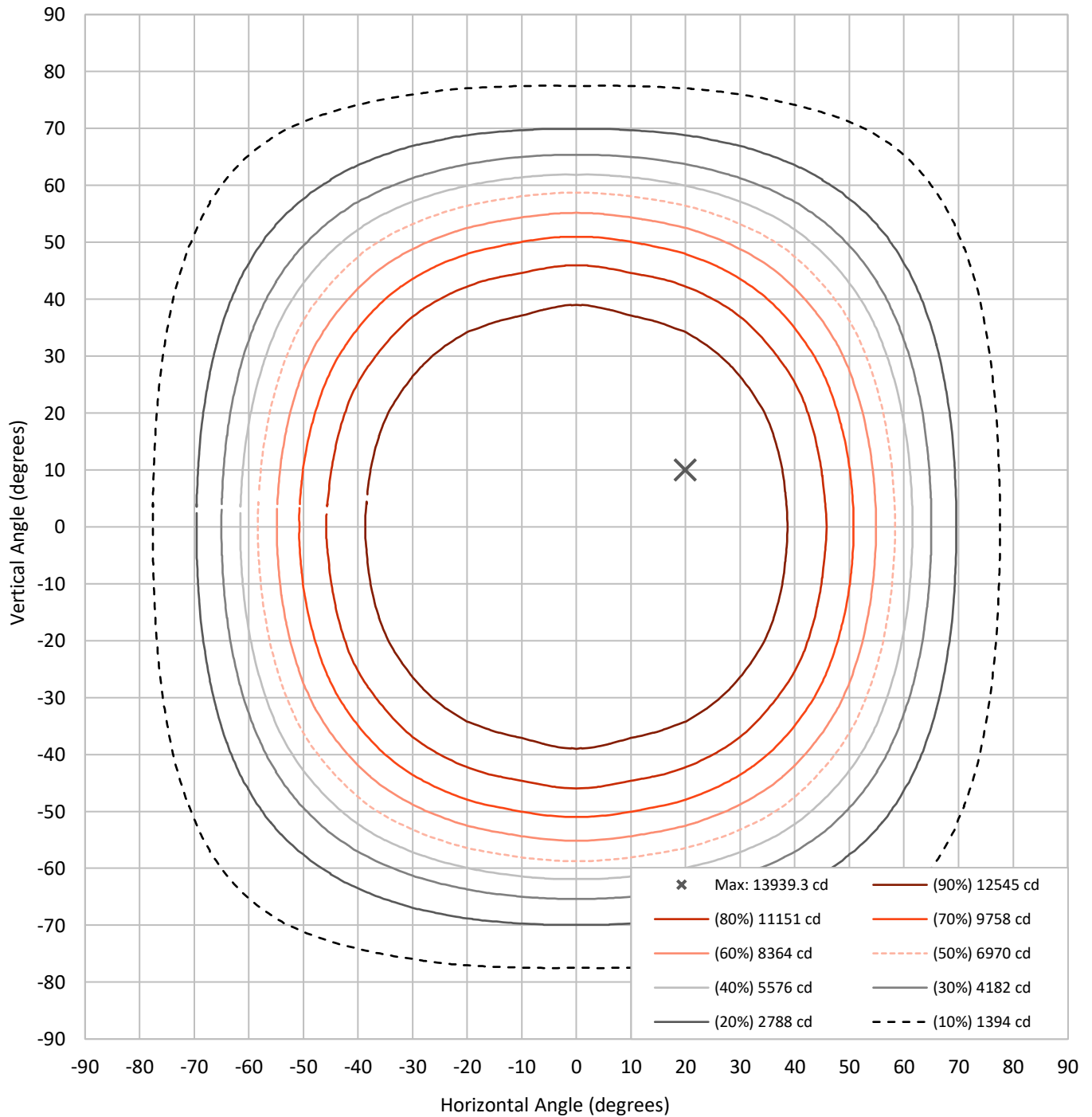
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	26240.8 lumens	Field Lumens:	31458.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 321.5
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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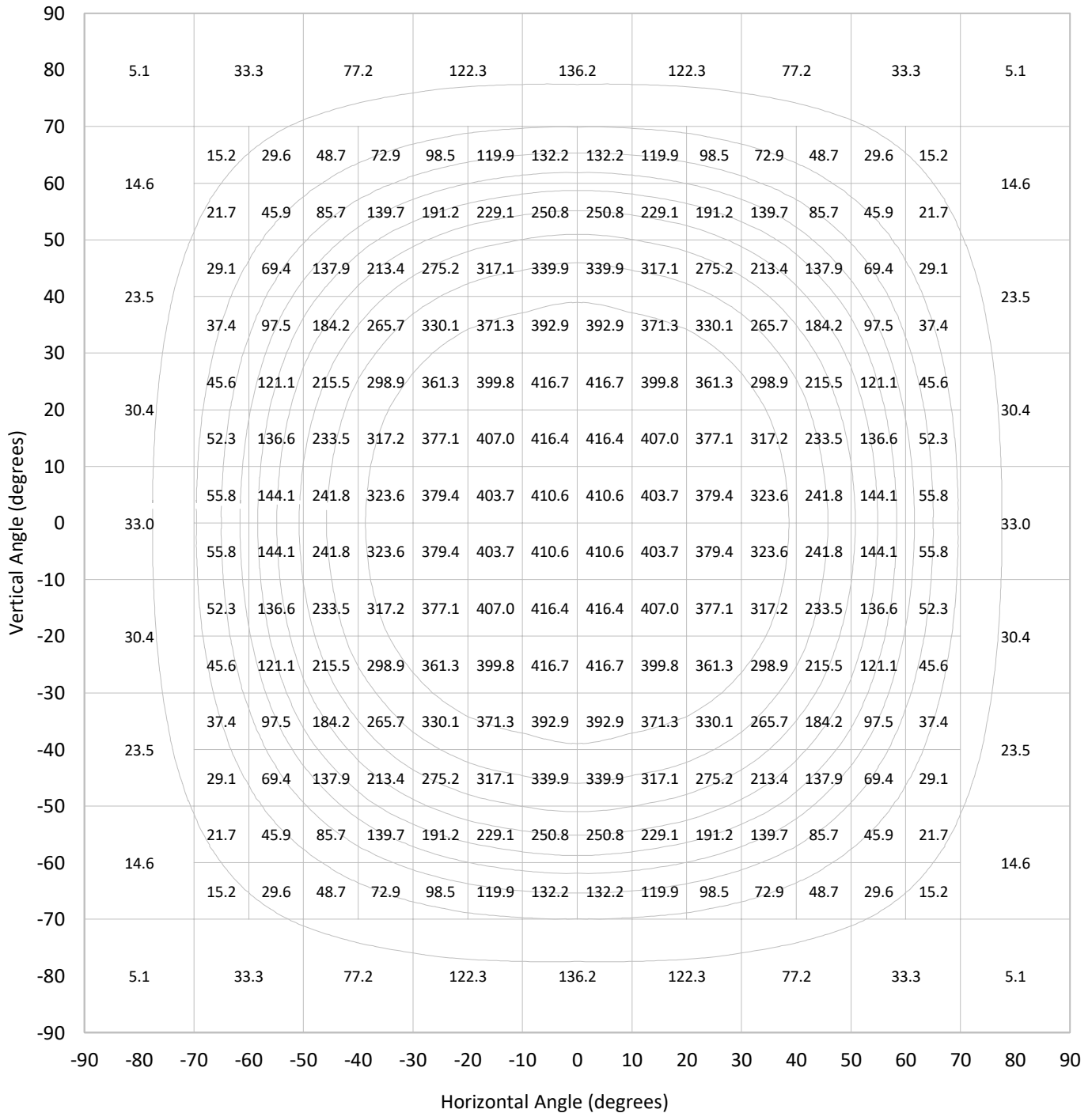
Iso-Candela Plot





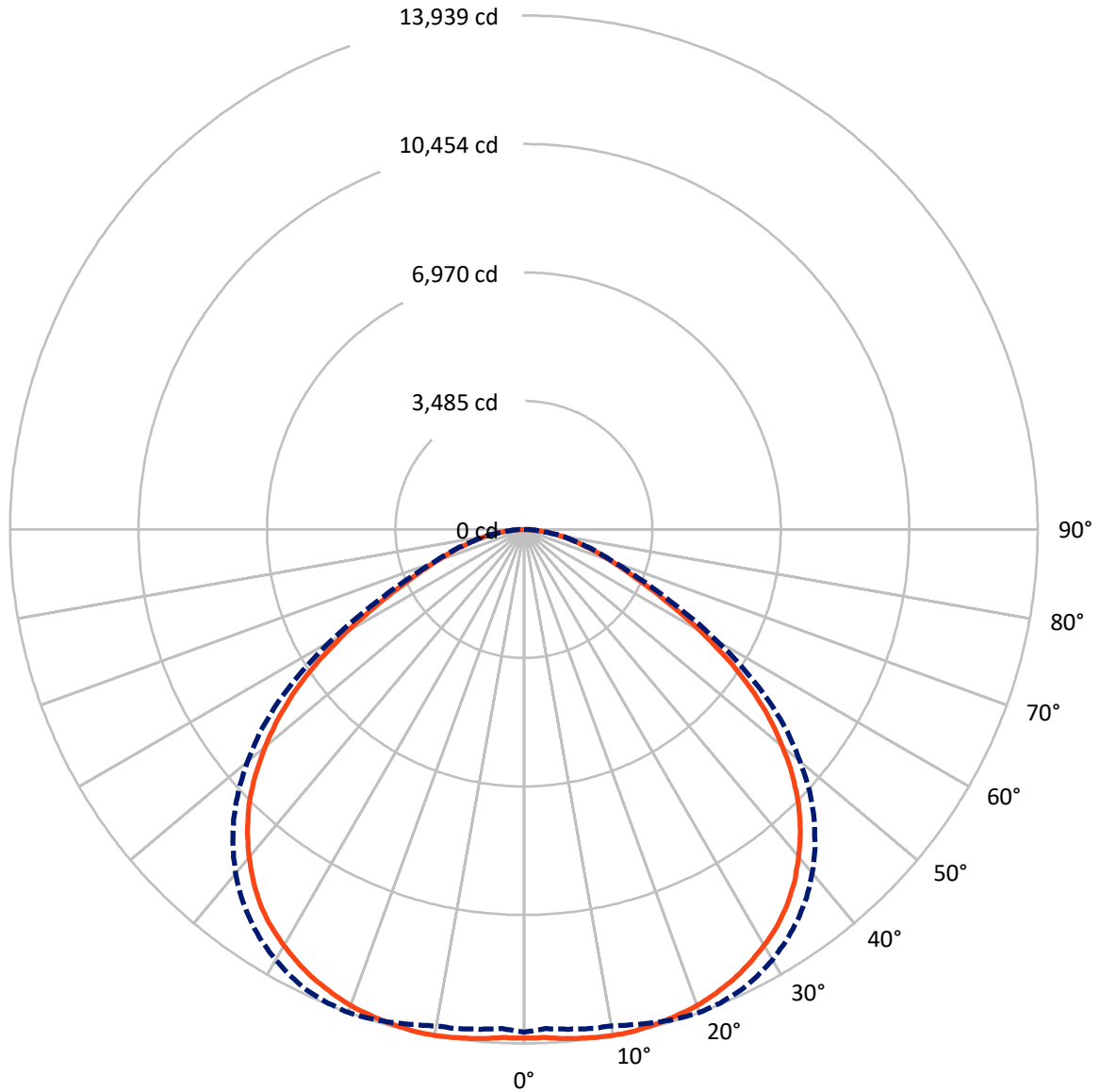
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Lumen Table



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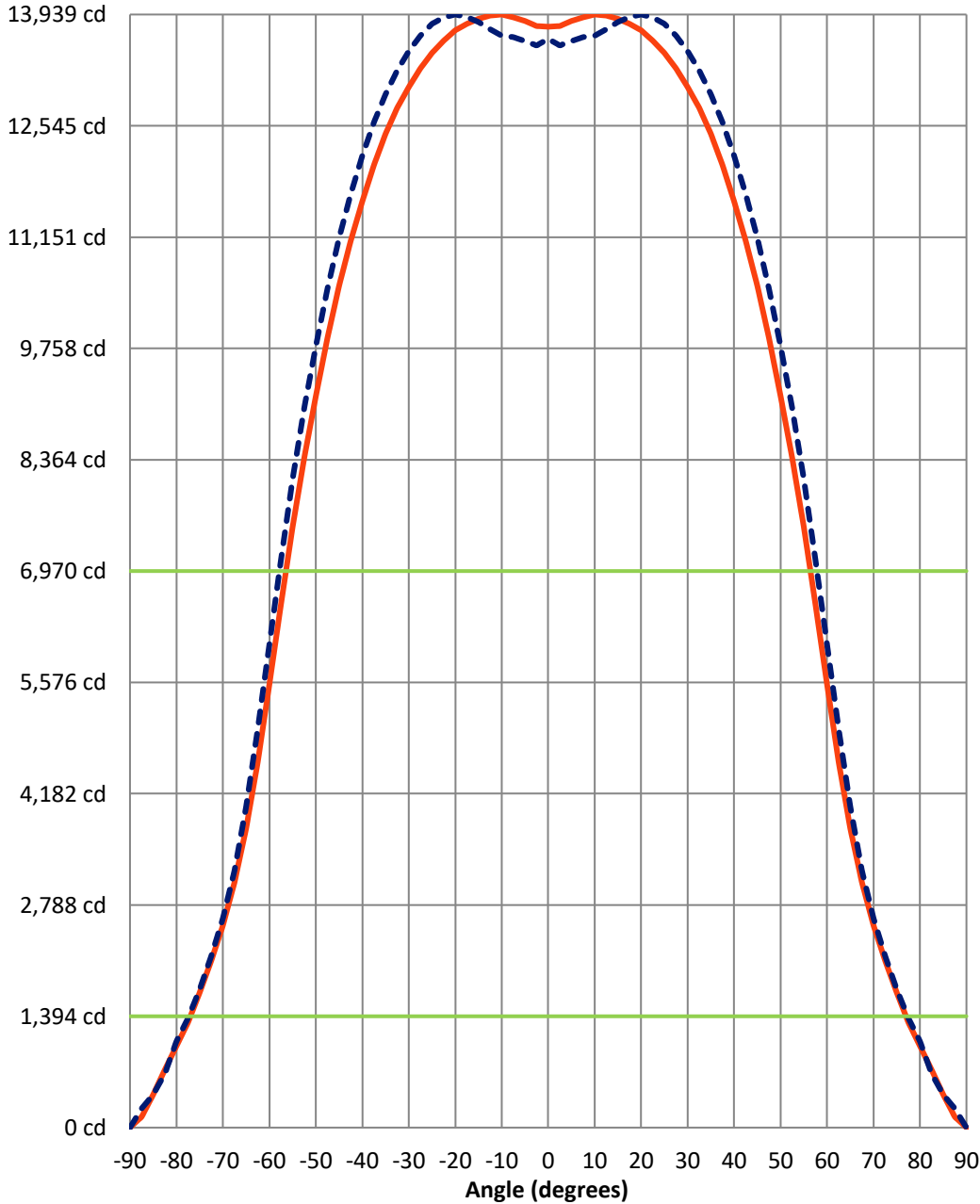
Luminous Intensity Polar Plot



— 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: 26240.8
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 31458.3
 Efficiency: 73.6%

Spill:
 Lumens: 11305.7
 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°	112.5	121.5	126.0	130.5	135.0	139.5	144.0	139.5	135.0	135.0	130.5
85°	301.5	310.5	315.0	346.5	378.0	396.0	418.4	414.0	414.0	409.5	405.0
82.5°	602.9	629.9	652.4	683.9	701.9	728.9	746.9	733.4	724.4	706.4	692.9
80°	1070.9	1079.9	1084.4	1088.9	1066.4	1061.9	1052.9	1039.4	1021.4	998.9	976.4
77.5°	1363.3	1372.3	1381.3	1372.3	1367.8	1363.3	1349.8	1336.3	1318.3	1300.3	1273.3
75°	1804.3	1804.3	1804.3	1790.8	1781.8	1768.3	1745.8	1723.3	1691.8	1655.8	1615.3
72.5°	2272.2	2267.7	2263.2	2236.2	2213.7	2186.7	2155.2	2128.2	2092.2	2051.8	1997.8
70°	2762.7	2771.7	2776.2	2740.2	2713.2	2677.2	2636.7	2587.2	2533.2	2474.7	2398.2
67.5°	3437.6	3428.6	3419.6	3370.1	3334.1	3284.6	3226.1	3154.1	3073.1	2983.1	2875.2
65°	4274.5	4288.0	4261.0	4211.5	4144.0	4063.0	3973.0	3869.5	3748.0	3613.1	3460.1
62.5°	5286.9	5309.4	5277.9	5214.9	5129.4	5021.4	4895.4	4746.9	4580.4	4391.5	4202.5
60°	6438.7	6434.2	6375.7	6290.2	6177.8	6042.8	5903.3	5741.3	5552.3	5331.9	5102.4
57.5°	7496.1	7487.1	7415.1	7329.6	7217.1	7073.1	6924.7	6753.7	6555.7	6321.7	6056.3
55°	8445.5	8436.5	8364.5	8274.5	8157.5	8013.5	7878.5	7716.6	7523.1	7275.6	6992.2
52.5°	9286.9	9291.4	9228.4	9129.4	9003.4	8863.9	8733.4	8571.5	8387.0	8139.5	7865.1
50°	10060.8	10056.3	9988.8	9898.8	9781.8	9646.8	9516.4	9354.4	9160.9	8922.4	8657.0
47.5°	10780.7	10771.7	10695.2	10596.2	10474.7	10357.8	10236.3	10092.3	9889.8	9651.3	9385.9
45°	11383.6	11365.6	11289.1	11194.6	11077.7	10974.2	10866.2	10758.2	10542.2	10321.8	10069.8
42.5°	11901.1	11896.6	11820.1	11725.6	11608.6	11518.6	11419.6	11284.6	11104.7	10902.2	10654.7
40°	12396.0	12360.0	12283.5	12193.5	12085.5	12009.1	11910.1	11775.1	11599.6	11401.6	11163.2
37.5°	12765.0	12769.5	12688.5	12589.5	12495.0	12423.0	12333.0	12207.0	12054.0	11860.6	11622.1
35°	13115.9	13093.4	13025.9	12940.4	12854.9	12774.0	12679.5	12571.5	12445.5	12265.5	12040.5
32.5°	13345.4	13376.9	13295.9	13205.9	13156.4	13093.4	12994.4	12881.9	12769.5	12589.5	12387.0
30°	13597.4	13570.4	13507.4	13430.9	13394.9	13354.4	13268.9	13160.9	13030.4	12868.4	12679.5
27.5°	13772.8	13759.3	13682.8	13610.9	13592.9	13556.9	13489.4	13394.9	13264.4	13106.9	12931.4
25°	13849.3	13858.3	13786.3	13745.8	13745.8	13723.3	13669.4	13588.4	13457.9	13313.9	13142.9
22.5°	13885.3	13876.3	13826.8	13817.8	13840.3	13822.3	13799.8	13727.8	13610.9	13493.9	13349.9
20°	13907.8	13844.8	13799.8	13835.8	13862.8	13858.3	13840.3	13795.3	13741.3	13642.4	13516.4
17.5°	13858.3	13817.8	13763.8	13817.8	13876.3	13880.8	13862.8	13835.8	13822.3	13759.3	13646.9
15°	13736.8	13705.3	13714.3	13768.3	13835.8	13858.3	13871.8	13903.3	13885.3	13835.8	13736.8
12.5°	13655.9	13615.4	13655.9	13709.8	13745.8	13759.3	13867.3	13925.8	13925.8	13880.8	13817.8
10°	13633.4	13552.4	13606.4	13655.9	13673.9	13754.8	13844.8	13907.8	13939.3	13903.3	13822.3
7.5°	13588.4	13534.4	13556.9	13579.4	13682.8	13741.3	13790.8	13858.3	13903.3	13898.8	13826.8
5°	13565.9	13498.4	13507.4	13601.9	13673.9	13714.3	13732.3	13790.8	13858.3	13871.8	13817.8
2.5°	13507.4	13475.9	13543.4	13552.4	13606.4	13637.9	13655.9	13709.8	13795.3	13826.8	13804.3
0°	13475.9	13430.9	13385.9	13421.9	13511.9	13579.4	13606.4	13687.3	13786.3	13817.8	13768.3



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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°	126.0	121.5	117.0	112.5	117.0	117.0	117.0	112.5	117.0	112.5	112.5
85°	391.5	373.5	360.0	342.0	324.0	310.5	292.5	274.5	270.0	265.5	256.5
82.5°	674.9	652.4	629.9	602.9	575.9	544.4	512.9	476.9	467.9	458.9	445.4
80°	949.4	917.9	886.4	854.9	827.9	796.4	760.4	719.9	692.9	670.4	643.4
77.5°	1237.4	1192.4	1147.4	1093.4	1061.9	1030.4	994.4	953.9	913.4	877.4	836.9
75°	1565.8	1516.3	1471.3	1417.3	1358.8	1300.3	1241.9	1187.9	1129.4	1075.4	1021.4
72.5°	1930.3	1858.3	1786.3	1718.8	1646.8	1574.8	1498.3	1426.3	1354.3	1282.3	1205.9
70°	2312.7	2222.7	2132.7	2042.8	1948.3	1853.8	1763.8	1673.8	1583.8	1489.3	1403.8
67.5°	2762.7	2659.2	2542.2	2416.2	2276.7	2155.2	2038.3	1930.3	1822.3	1714.3	1606.3
65°	3325.1	3181.1	3023.6	2852.7	2690.7	2528.7	2357.7	2195.7	2069.8	1943.8	1822.3
62.5°	4018.0	3815.5	3595.1	3374.6	3176.6	2965.1	2767.2	2555.7	2357.7	2177.7	2029.3
60°	4845.9	4571.4	4301.5	4018.0	3743.5	3455.6	3203.6	2942.6	2695.2	2474.7	2258.7
57.5°	5759.3	5439.8	5115.9	4769.4	4396.0	4058.5	3716.6	3374.6	3082.1	2789.7	2546.7
55°	6686.2	6348.7	5984.3	5592.8	5183.4	4751.4	4288.0	3905.5	3505.1	3163.1	2848.2
52.5°	7568.1	7217.1	6839.2	6479.2	5988.8	5493.8	4985.4	4481.5	4013.5	3577.1	3194.6
50°	8355.5	8013.5	7649.1	7230.6	6776.2	6249.7	5682.8	5115.9	4562.4	4049.5	3572.6
47.5°	9075.4	8742.4	8378.0	7959.5	7545.6	6960.7	6389.2	5763.8	5147.4	4558.0	4000.0
45°	9750.3	9412.9	9034.9	8634.5	8157.5	7635.6	7046.2	6416.2	5754.8	5093.4	4450.0
42.5°	10362.3	10024.8	9642.3	9228.4	8755.9	8238.5	7667.1	7032.7	6366.7	5646.8	4940.4
40°	10897.7	10569.2	10200.3	9768.3	9327.4	8782.9	8220.5	7617.6	6929.2	6204.8	5426.3
37.5°	11365.6	11059.7	10695.2	10267.8	9799.8	9313.9	8733.4	8130.5	7509.6	6722.2	5925.8
35°	11779.6	11496.1	11122.7	10717.7	10258.8	9745.8	9201.4	8612.0	7941.5	7203.6	6429.7
32.5°	12139.5	11851.6	11509.6	11104.7	10659.2	10177.8	9619.8	9025.9	8391.5	7640.1	6798.7
30°	12445.5	12166.5	11842.6	11460.1	11032.7	10555.7	10011.3	9412.9	8764.9	8018.0	7185.6
27.5°	12711.0	12445.5	12130.5	11775.1	11365.6	10906.7	10357.8	9754.8	9093.4	8373.5	7541.1
25°	12940.4	12684.0	12391.5	12054.0	11649.1	11199.1	10681.7	10051.8	9390.4	8666.0	7842.6
22.5°	13147.4	12899.9	12607.5	12279.0	11910.1	11460.1	10938.2	10312.8	9642.3	8926.9	8117.0
20°	13331.9	13102.4	12814.5	12477.0	12108.0	11653.6	11136.2	10542.2	9867.3	9165.4	8364.5
17.5°	13480.4	13277.9	12989.9	12634.5	12265.5	11824.6	11320.6	10776.2	10060.8	9367.9	8571.5
15°	13583.9	13385.9	13124.9	12765.0	12405.0	11968.6	11464.6	10902.2	10236.3	9529.9	8742.4
12.5°	13655.9	13444.4	13201.4	12868.4	12508.5	12076.5	11586.1	11032.7	10384.7	9673.8	8890.9
10°	13673.9	13480.4	13237.4	12940.4	12589.5	12171.0	11689.6	11140.7	10506.2	9786.3	9012.4
7.5°	13682.8	13498.4	13277.9	12994.4	12648.0	12243.0	11766.1	11226.1	10596.2	9880.8	9102.4
5°	13678.4	13502.9	13304.9	13030.4	12684.0	12283.5	11815.6	11284.6	10659.2	9943.8	9169.9
2.5°	13664.9	13507.4	13322.9	13057.4	12724.5	12328.5	11865.1	11352.1	10726.7	9997.8	9223.9
0°	13700.8	13565.9	13331.9	13048.4	12733.5	12328.5	11860.6	11361.1	10735.7	9993.3	9219.4



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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°	112.5	108.0	108.0	103.5	99.0	94.5	85.5	81.0	72.0	58.5	45.0
85°	243.0	229.5	216.0	207.0	198.0	189.0	175.5	162.0	144.0	117.0	90.0
82.5°	427.4	400.5	373.5	342.0	315.0	288.0	265.5	243.0	216.0	175.5	135.0
80°	611.9	571.4	530.9	485.9	445.4	400.5	360.0	324.0	288.0	234.0	180.0
77.5°	796.4	742.4	683.9	629.9	571.4	512.9	454.4	405.0	351.0	288.0	225.0
75°	967.4	904.4	850.4	773.9	701.9	625.4	548.9	481.4	414.0	337.5	270.0
72.5°	1138.4	1057.4	980.9	908.9	827.9	733.4	647.9	562.4	476.9	387.0	306.0
70°	1309.3	1210.4	1115.9	1030.4	940.4	845.9	742.4	643.4	539.9	431.9	337.5
67.5°	1484.8	1372.3	1264.3	1156.4	1052.9	944.9	836.9	724.4	602.9	476.9	373.5
65°	1678.3	1538.8	1408.3	1286.8	1165.4	1048.4	926.9	805.4	670.4	526.4	405.0
62.5°	1871.8	1718.8	1565.8	1412.8	1277.8	1147.4	1016.9	881.9	733.4	580.4	436.4
60°	2078.7	1903.3	1727.8	1556.8	1390.3	1246.3	1102.4	958.4	800.9	629.9	467.9
57.5°	2308.2	2096.7	1898.8	1705.3	1516.3	1345.3	1187.9	1034.9	859.4	679.4	503.9
55°	2569.2	2308.2	2074.2	1858.3	1651.3	1444.3	1273.3	1115.9	926.9	728.9	544.4
52.5°	2843.7	2542.2	2258.7	2015.8	1795.3	1561.3	1354.3	1178.9	994.4	778.4	580.4
50°	3163.1	2780.7	2465.7	2168.7	1921.3	1678.3	1439.8	1250.8	1061.9	836.9	616.4
47.5°	3491.6	3068.6	2672.7	2348.7	2056.3	1790.8	1538.8	1313.8	1124.9	890.9	652.4
45°	3874.0	3343.1	2906.6	2524.2	2186.7	1907.8	1637.8	1381.3	1178.9	944.9	688.4
42.5°	4243.0	3667.1	3149.6	2717.7	2335.2	2020.3	1727.8	1453.3	1232.9	998.9	719.9
40°	4679.4	3991.0	3383.6	2902.1	2483.7	2128.2	1817.8	1529.8	1282.3	1048.4	751.4
37.5°	5097.9	4319.5	3667.1	3104.6	2627.7	2236.2	1907.8	1601.8	1327.3	1097.9	791.9
35°	5511.8	4683.9	3937.0	3293.6	2776.2	2357.7	1997.8	1669.3	1372.3	1138.4	827.9
32.5°	5907.8	5025.9	4211.5	3505.1	2938.1	2470.2	2078.7	1732.3	1417.3	1174.4	863.9
30°	6276.7	5349.9	4481.5	3721.1	3086.6	2573.7	2155.2	1795.3	1471.3	1205.9	899.9
27.5°	6614.2	5664.8	4751.4	3923.5	3226.1	2668.2	2236.2	1853.8	1516.3	1237.4	931.4
25°	6920.2	5948.3	4998.9	4108.0	3352.1	2771.7	2312.7	1912.3	1556.8	1264.3	958.4
22.5°	7208.1	6209.3	5223.9	4292.5	3505.1	2875.2	2384.7	1966.3	1597.3	1291.3	985.4
20°	7460.1	6447.7	5439.8	4477.0	3640.1	2969.6	2447.7	2015.8	1633.3	1309.3	1012.4
17.5°	7662.6	6659.2	5633.3	4638.9	3757.0	3050.6	2501.7	2060.8	1664.8	1331.8	1030.4
15°	7842.6	6839.2	5795.3	4778.4	3860.5	3118.1	2551.2	2096.7	1691.8	1345.3	1052.9
12.5°	7995.5	6992.2	5934.8	4899.9	3950.5	3176.6	2591.7	2123.7	1714.3	1358.8	1066.4
10°	8121.5	7113.6	6051.8	4994.4	4022.5	3221.6	2623.2	2150.7	1732.3	1372.3	1079.9
7.5°	8216.0	7203.6	6137.3	5075.4	4081.0	3253.1	2650.2	2168.7	1750.3	1381.3	1102.4
5°	8288.0	7280.1	6204.8	5129.4	4126.0	3298.1	2681.7	2191.2	1768.3	1390.3	1102.4
2.5°	8342.0	7343.1	6258.7	5174.4	4162.0	3289.1	2681.7	2186.7	1768.3	1390.3	1097.9
0°	8333.0	7347.6	6254.2	5174.4	4162.0	3280.1	2681.7	2182.2	1768.3	1390.3	1097.9



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	31.5	22.5	9.0	0.0
85°	67.5	45.0	22.5	0.0
82.5°	99.0	63.0	31.5	0.0
80°	130.5	85.5	40.5	0.0
77.5°	166.5	108.0	54.0	0.0
75°	198.0	126.0	63.0	0.0
72.5°	229.5	148.5	72.0	0.0
70°	256.5	166.5	81.0	0.0
67.5°	283.5	189.0	94.5	0.0
65°	306.0	207.0	103.5	0.0
62.5°	324.0	229.5	112.5	0.0
60°	346.5	247.5	121.5	0.0
57.5°	364.5	261.0	130.5	0.0
55°	382.5	270.0	139.5	0.0
52.5°	400.5	283.5	148.5	0.0
50°	418.4	297.0	157.5	0.0
47.5°	436.4	306.0	162.0	0.0
45°	463.4	319.5	171.0	0.0
42.5°	485.9	328.5	180.0	0.0
40°	508.4	337.5	184.5	0.0
37.5°	530.9	346.5	193.5	0.0
35°	553.4	355.5	198.0	0.0
32.5°	571.4	364.5	202.5	0.0
30°	589.4	373.5	207.0	0.0
27.5°	607.4	378.0	211.5	0.0
25°	620.9	387.0	216.0	0.0
22.5°	634.4	391.5	220.5	0.0
20°	643.4	396.0	225.0	0.0
17.5°	656.9	400.5	229.5	0.0
15°	661.4	405.0	238.5	0.0
12.5°	670.4	409.5	238.5	0.0
10°	674.9	414.0	238.5	0.0
7.5°	683.9	414.0	238.5	0.0
5°	679.4	414.0	238.5	0.0
2.5°	679.4	414.0	238.5	0.0
0°	674.9	414.0	238.5	0.0

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