

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: P628229

Luminaire Tested: **IFLD-L-SA7B-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628229
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

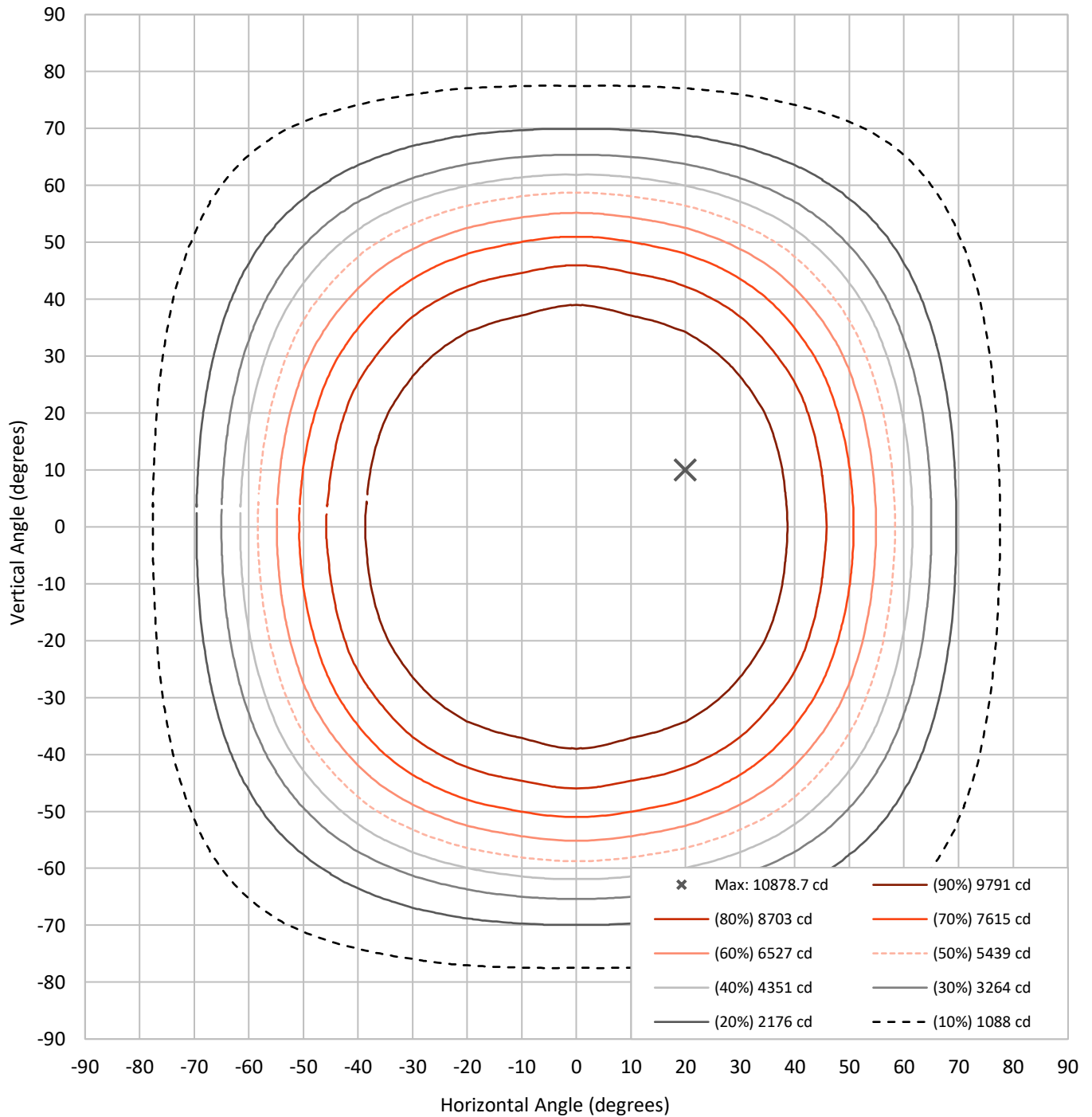
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33374.3 lumens	Max Intensity:	10878.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	118.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	20479.2 lumens	Field Lumens:	24551 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 281
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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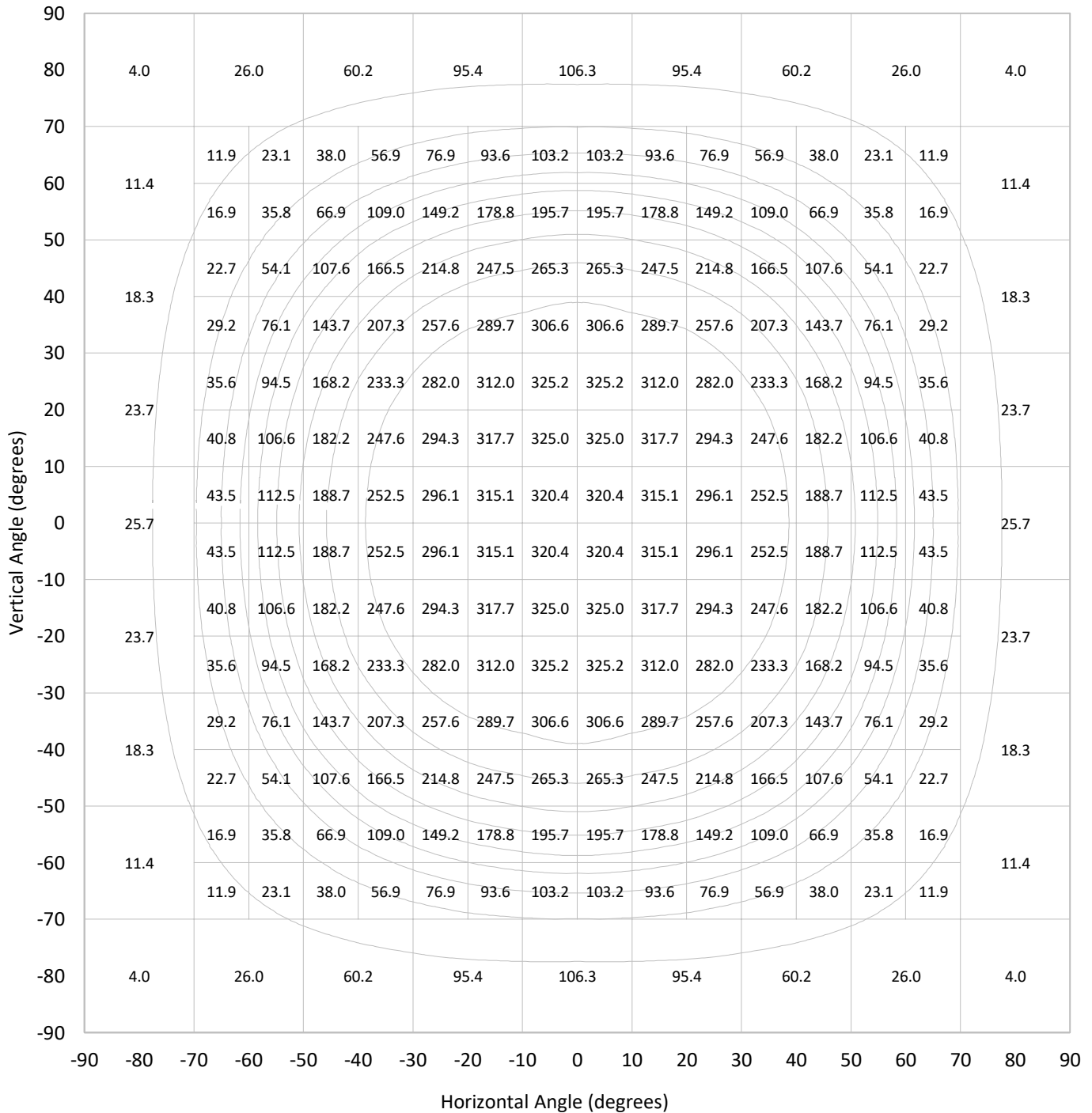
Iso-Candela Plot





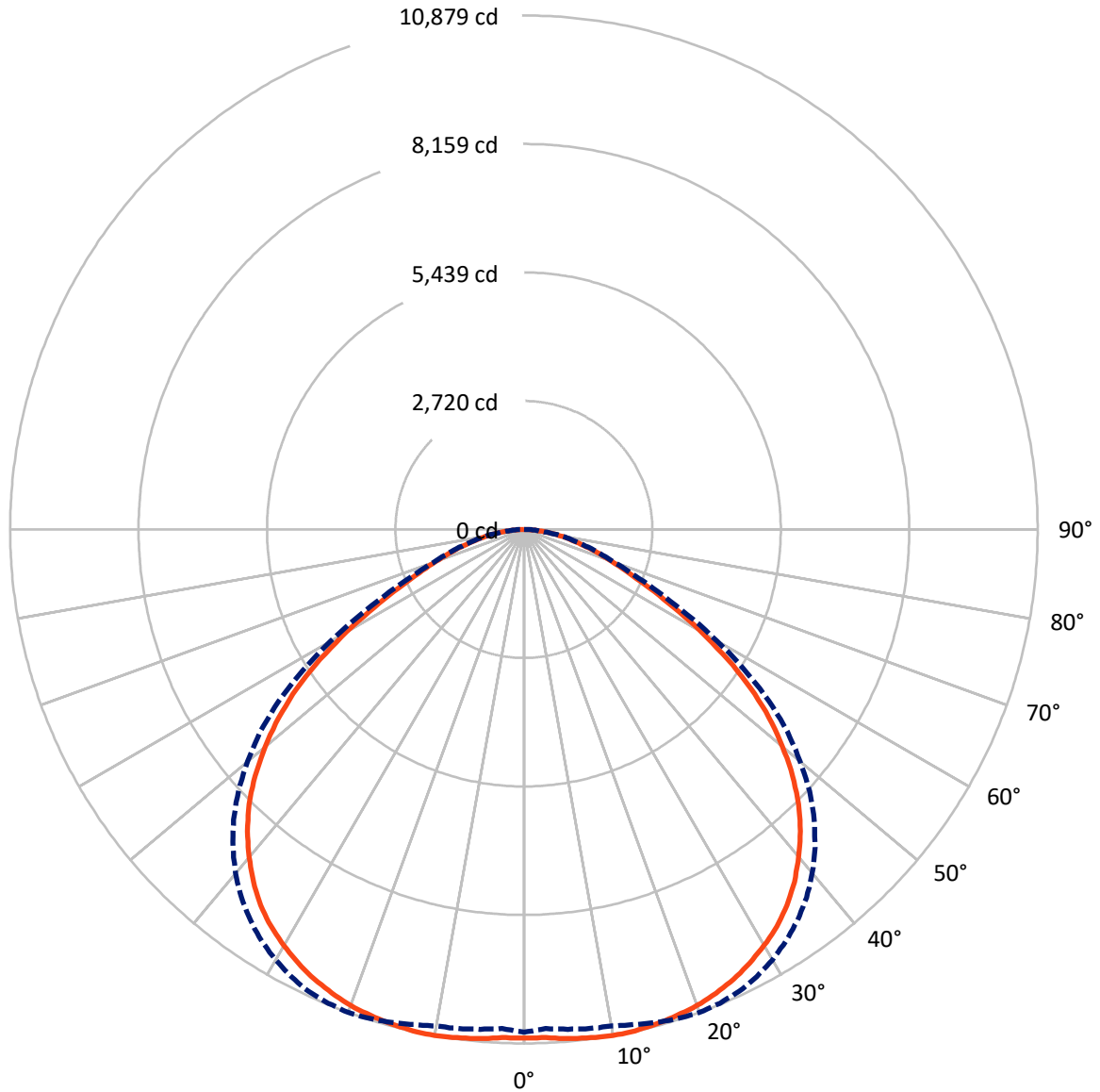
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Lumen Table



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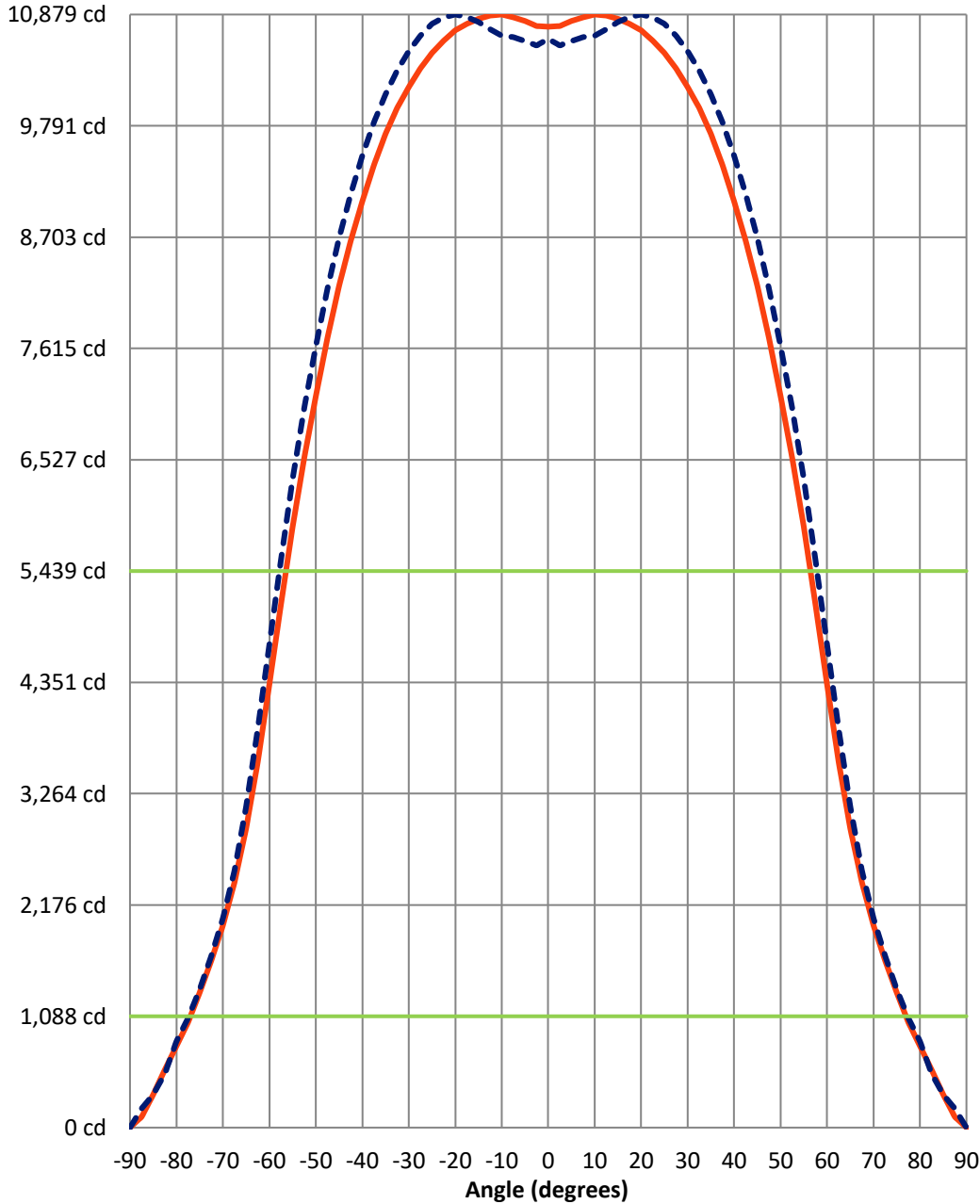
Luminous Intensity Polar Plot



— 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: 20479.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 24551
 Efficiency: 73.6%

Spill:
 Lumens: 8823.3
 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°	87.8	94.8	98.3	101.8	105.3	108.9	112.4	108.9	105.3	105.3	101.8
85°	235.3	242.3	245.8	270.4	295.0	309.0	326.6	323.1	323.1	319.5	316.0
82.5°	470.5	491.6	509.2	533.8	547.8	568.9	582.9	572.4	565.4	551.3	540.8
80°	835.7	842.8	846.3	849.8	832.2	828.7	821.7	811.2	797.1	779.6	762.0
77.5°	1064.0	1071.0	1078.0	1071.0	1067.5	1064.0	1053.5	1042.9	1028.9	1014.8	993.8
75°	1408.1	1408.1	1408.1	1397.6	1390.6	1380.0	1362.5	1344.9	1320.3	1292.2	1260.6
72.5°	1773.3	1769.8	1766.3	1745.2	1727.7	1706.6	1682.0	1660.9	1632.9	1601.3	1559.1
70°	2156.1	2163.1	2166.6	2138.5	2117.4	2089.4	2057.8	2019.1	1977.0	1931.3	1871.6
67.5°	2682.8	2675.8	2668.8	2630.1	2602.0	2563.4	2517.8	2461.6	2398.4	2328.1	2243.9
65°	3335.9	3346.5	3325.4	3286.8	3234.1	3170.9	3100.7	3019.9	2925.1	2819.8	2700.4
62.5°	4126.0	4143.6	4119.0	4069.9	4003.1	3918.9	3820.5	3704.7	3574.7	3427.2	3279.8
60°	5025.0	5021.5	4975.8	4909.1	4821.3	4716.0	4607.1	4480.7	4333.2	4161.2	3982.1
57.5°	5850.2	5843.2	5787.0	5720.3	5632.5	5520.1	5404.2	5270.8	5116.3	4933.7	4726.5
55°	6591.1	6584.1	6527.9	6457.7	6366.4	6254.0	6148.7	6022.3	5871.3	5678.1	5456.9
52.5°	7247.8	7251.3	7202.1	7124.9	7026.6	6917.7	6815.9	6689.4	6545.5	6352.3	6138.1
50°	7851.8	7848.2	7795.6	7725.3	7634.0	7528.7	7426.9	7300.4	7149.5	6963.3	6756.2
47.5°	8413.6	8406.6	8346.9	8269.6	8174.8	8083.5	7988.7	7876.3	7718.3	7532.2	7325.0
45°	8884.1	8870.1	8810.4	8736.7	8645.4	8564.6	8480.3	8396.0	8227.5	8055.4	7858.8
42.5°	9288.0	9284.5	9224.8	9151.0	9059.7	8989.5	8912.2	8806.9	8666.4	8508.4	8315.3
40°	9674.2	9646.1	9586.4	9516.2	9431.9	9372.2	9295.0	9189.6	9052.7	8898.2	8712.1
37.5°	9962.2	9965.7	9902.5	9825.2	9751.5	9695.3	9625.1	9526.8	9407.4	9256.4	9070.3
35°	10236.1	10218.5	10165.8	10099.1	10032.4	9969.2	9895.5	9811.2	9712.9	9572.4	9396.8
32.5°	10415.2	10439.7	10376.5	10306.3	10267.7	10218.5	10141.3	10053.5	9965.7	9825.2	9667.2
30°	10611.8	10590.7	10541.6	10481.9	10453.8	10422.2	10355.5	10271.2	10169.4	10042.9	9895.5
27.5°	10748.8	10738.2	10678.5	10622.3	10608.3	10580.2	10527.5	10453.8	10352.0	10229.1	10092.1
25°	10808.5	10815.5	10759.3	10727.7	10727.7	10710.1	10668.0	10604.8	10503.0	10390.6	10257.1
22.5°	10836.5	10829.5	10790.9	10783.9	10801.4	10787.4	10769.8	10713.6	10622.3	10531.0	10418.7
20°	10854.1	10804.9	10769.8	10797.9	10819.0	10815.5	10801.4	10766.3	10724.2	10646.9	10548.6
17.5°	10815.5	10783.9	10741.7	10783.9	10829.5	10833.0	10819.0	10797.9	10787.4	10738.2	10650.4
15°	10720.7	10696.1	10703.1	10745.2	10797.9	10815.5	10826.0	10850.6	10836.5	10797.9	10720.7
12.5°	10657.5	10625.9	10657.5	10699.6	10727.7	10738.2	10822.5	10868.2	10868.2	10833.0	10783.9
10°	10639.9	10576.7	10618.8	10657.5	10671.5	10734.7	10804.9	10854.1	10878.7	10850.6	10787.4
7.5°	10604.8	10562.7	10580.2	10597.8	10678.5	10724.2	10762.8	10815.5	10850.6	10847.1	10790.9
5°	10587.2	10534.6	10541.6	10615.3	10671.5	10703.1	10717.2	10762.8	10815.5	10826.0	10783.9
2.5°	10541.6	10517.0	10569.7	10576.7	10618.8	10643.4	10657.5	10699.6	10766.3	10790.9	10773.3
0°	10517.0	10481.9	10446.8	10474.9	10545.1	10597.8	10618.8	10682.0	10759.3	10783.9	10745.2



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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°	98.3	94.8	91.3	87.8	91.3	91.3	91.3	87.8	91.3	87.8	87.8
85°	305.5	291.5	280.9	266.9	252.8	242.3	228.2	214.2	210.7	207.2	200.2
82.5°	526.7	509.2	491.6	470.5	449.5	424.9	400.3	372.2	365.2	358.2	347.6
80°	740.9	716.3	691.8	667.2	646.1	621.5	593.4	561.8	540.8	523.2	502.1
77.5°	965.7	930.6	895.4	853.3	828.7	804.1	776.0	744.4	712.8	684.7	653.1
75°	1222.0	1183.4	1148.3	1106.1	1060.5	1014.8	969.2	927.0	881.4	839.3	797.1
72.5°	1506.4	1450.3	1394.1	1341.4	1285.2	1229.0	1169.3	1113.2	1057.0	1000.8	941.1
70°	1804.9	1734.7	1664.5	1594.2	1520.5	1446.7	1376.5	1306.3	1236.1	1162.3	1095.6
67.5°	2156.1	2075.3	1984.0	1885.7	1776.8	1682.0	1590.7	1506.4	1422.2	1337.9	1253.6
65°	2595.0	2482.6	2359.7	2226.3	2099.9	1973.5	1840.0	1713.6	1615.3	1517.0	1422.2
62.5°	3135.8	2977.8	2805.7	2633.6	2479.1	2314.1	2159.6	1994.5	1840.0	1699.6	1583.7
60°	3781.9	3567.7	3357.0	3135.8	2921.6	2696.8	2500.2	2296.5	2103.4	1931.3	1762.8
57.5°	4494.7	4245.4	3992.6	3722.2	3430.8	3167.4	2900.5	2633.6	2405.4	2177.1	1987.5
55°	5218.1	4954.8	4670.3	4364.8	4045.3	3708.2	3346.5	3048.0	2735.5	2468.6	2222.8
52.5°	5906.4	5632.5	5337.5	5056.6	4673.8	4287.6	3890.8	3497.5	3132.3	2791.7	2493.2
50°	6520.9	6254.0	5969.6	5643.0	5288.3	4877.5	4435.0	3992.6	3560.7	3160.4	2788.1
47.5°	7082.7	6822.9	6538.4	6211.9	5888.8	5432.3	4986.4	4498.3	4017.2	3557.2	3121.7
45°	7609.5	7346.1	7051.1	6738.6	6366.4	5959.0	5499.0	5007.4	4491.2	3975.0	3472.9
42.5°	8087.0	7823.7	7525.2	7202.1	6833.4	6429.6	5983.6	5488.5	4968.8	4407.0	3855.6
40°	8504.9	8248.6	7960.6	7623.5	7279.4	6854.5	6415.5	5945.0	5407.7	4842.4	4234.9
37.5°	8870.1	8631.3	8346.9	8013.3	7648.1	7268.8	6815.9	6345.3	5860.7	5246.2	4624.7
35°	9193.2	8971.9	8680.5	8364.4	8006.3	7606.0	7181.1	6721.0	6197.8	5621.9	5018.0
32.5°	9474.1	9249.3	8982.5	8666.4	8318.8	7943.1	7507.6	7044.1	6549.0	5962.6	5305.9
30°	9712.9	9495.1	9242.3	8943.8	8610.2	8238.0	7813.1	7346.1	6840.4	6257.5	5607.9
27.5°	9920.0	9712.9	9467.1	9189.6	8870.1	8511.9	8083.5	7613.0	7096.8	6534.9	5885.3
25°	10099.1	9899.0	9670.7	9407.4	9091.3	8740.2	8336.3	7844.7	7328.5	6763.2	6120.6
22.5°	10260.7	10067.5	9839.3	9582.9	9295.0	8943.8	8536.5	8048.4	7525.2	6966.9	6334.8
20°	10404.6	10225.5	10000.8	9737.4	9449.5	9094.8	8691.0	8227.5	7700.8	7153.0	6527.9
17.5°	10520.5	10362.5	10137.8	9860.3	9572.4	9228.3	8835.0	8410.1	7851.8	7311.0	6689.4
15°	10601.3	10446.8	10243.1	9962.2	9681.3	9340.6	8947.4	8508.4	7988.7	7437.4	6822.9
12.5°	10657.5	10492.4	10302.8	10042.9	9762.0	9424.9	9042.2	8610.2	8104.6	7549.8	6938.8
10°	10671.5	10520.5	10330.9	10099.1	9825.2	9498.7	9122.9	8694.5	8199.4	7637.6	7033.6
7.5°	10678.5	10534.6	10362.5	10141.3	9870.9	9554.8	9182.6	8761.2	8269.6	7711.3	7103.8
5°	10675.0	10538.1	10383.6	10169.4	9899.0	9586.4	9221.3	8806.9	8318.8	7760.5	7156.5
2.5°	10664.5	10541.6	10397.6	10190.4	9930.6	9621.6	9259.9	8859.6	8371.5	7802.6	7198.6
0°	10692.6	10587.2	10404.6	10183.4	9937.6	9621.6	9256.4	8866.6	8378.5	7799.1	7195.1



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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°	87.8	84.3	84.3	80.8	77.3	73.7	66.7	63.2	56.2	45.6	35.1
85°	189.6	179.1	168.6	161.5	154.5	147.5	136.9	126.4	112.4	91.3	70.2
82.5°	333.6	312.5	291.5	266.9	245.8	224.7	207.2	189.6	168.6	136.9	105.3
80°	477.6	446.0	414.4	379.2	347.6	312.5	280.9	252.8	224.7	182.6	140.5
77.5°	621.5	579.4	533.8	491.6	446.0	400.3	354.7	316.0	273.9	224.7	175.6
75°	755.0	705.8	663.7	604.0	547.8	488.1	428.4	375.7	323.1	263.4	210.7
72.5°	888.4	825.2	765.5	709.3	646.1	572.4	505.7	438.9	372.2	302.0	238.8
70°	1021.9	944.6	870.9	804.1	733.9	660.2	579.4	502.1	421.4	337.1	263.4
67.5°	1158.8	1071.0	986.7	902.5	821.7	737.4	653.1	565.4	470.5	372.2	291.5
65°	1309.8	1200.9	1099.1	1004.3	909.5	818.2	723.4	628.6	523.2	410.8	316.0
62.5°	1460.8	1341.4	1222.0	1102.6	997.3	895.4	793.6	688.3	572.4	453.0	340.6
60°	1622.3	1485.4	1348.4	1215.0	1085.1	972.7	860.3	748.0	625.1	491.6	365.2
57.5°	1801.4	1636.4	1481.9	1330.9	1183.4	1049.9	927.0	807.6	670.7	530.2	393.3
55°	2005.1	1801.4	1618.8	1450.3	1288.7	1127.2	993.8	870.9	723.4	568.9	424.9
52.5°	2219.3	1984.0	1762.8	1573.2	1401.1	1218.5	1057.0	920.0	776.0	607.5	453.0
50°	2468.6	2170.1	1924.3	1692.6	1499.4	1309.8	1123.7	976.2	828.7	653.1	481.1
47.5°	2724.9	2394.9	2085.8	1833.0	1604.8	1397.6	1200.9	1025.4	877.9	695.3	509.2
45°	3023.4	2609.1	2268.4	1970.0	1706.6	1488.9	1278.2	1078.0	920.0	737.4	537.3
42.5°	3311.4	2861.9	2458.1	2121.0	1822.5	1576.7	1348.4	1134.2	962.2	779.6	561.8
40°	3652.0	3114.7	2640.7	2264.9	1938.4	1660.9	1418.7	1193.9	1000.8	818.2	586.4
37.5°	3978.6	3371.1	2861.9	2422.9	2050.7	1745.2	1488.9	1250.1	1035.9	856.8	618.0
35°	4301.6	3655.5	3072.6	2570.4	2166.6	1840.0	1559.1	1302.8	1071.0	888.4	646.1
32.5°	4610.6	3922.4	3286.8	2735.5	2293.0	1927.8	1622.3	1351.9	1106.1	916.5	674.2
30°	4898.6	4175.2	3497.5	2904.0	2408.9	2008.6	1682.0	1401.1	1148.3	941.1	702.3
27.5°	5161.9	4421.0	3708.2	3062.0	2517.8	2082.3	1745.2	1446.7	1183.4	965.7	726.9
25°	5400.7	4642.2	3901.3	3206.0	2616.1	2163.1	1804.9	1492.4	1215.0	986.7	748.0
22.5°	5625.5	4845.9	4076.9	3350.0	2735.5	2243.9	1861.1	1534.5	1246.6	1007.8	769.0
20°	5822.1	5032.0	4245.4	3494.0	2840.8	2317.6	1910.3	1573.2	1274.7	1021.9	790.1
17.5°	5980.1	5197.0	4396.4	3620.4	2932.1	2380.8	1952.4	1608.3	1299.3	1039.4	804.1
15°	6120.6	5337.5	4522.8	3729.2	3012.9	2433.5	1991.0	1636.4	1320.3	1049.9	821.7
12.5°	6240.0	5456.9	4631.7	3824.0	3083.1	2479.1	2022.6	1657.4	1337.9	1060.5	832.2
10°	6338.3	5551.7	4723.0	3897.8	3139.3	2514.2	2047.2	1678.5	1351.9	1071.0	842.8
7.5°	6412.0	5621.9	4789.7	3961.0	3184.9	2538.8	2068.3	1692.6	1366.0	1078.0	860.3
5°	6468.2	5681.6	4842.4	4003.1	3220.1	2573.9	2092.9	1710.1	1380.0	1085.1	860.3
2.5°	6510.4	5730.8	4884.5	4038.2	3248.2	2566.9	2092.9	1706.6	1380.0	1085.1	856.8
0°	6503.3	5734.3	4881.0	4038.2	3248.2	2559.9	2092.9	1703.1	1380.0	1085.1	856.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	24.6	17.6	7.0	0.0
85°	52.7	35.1	17.6	0.0
82.5°	77.3	49.2	24.6	0.0
80°	101.8	66.7	31.6	0.0
77.5°	129.9	84.3	42.1	0.0
75°	154.5	98.3	49.2	0.0
72.5°	179.1	115.9	56.2	0.0
70°	200.2	129.9	63.2	0.0
67.5°	221.2	147.5	73.7	0.0
65°	238.8	161.5	80.8	0.0
62.5°	252.8	179.1	87.8	0.0
60°	270.4	193.1	94.8	0.0
57.5°	284.4	203.7	101.8	0.0
55°	298.5	210.7	108.9	0.0
52.5°	312.5	221.2	115.9	0.0
50°	326.6	231.8	122.9	0.0
47.5°	340.6	238.8	126.4	0.0
45°	361.7	249.3	133.4	0.0
42.5°	379.2	256.3	140.5	0.0
40°	396.8	263.4	144.0	0.0
37.5°	414.4	270.4	151.0	0.0
35°	431.9	277.4	154.5	0.0
32.5°	446.0	284.4	158.0	0.0
30°	460.0	291.5	161.5	0.0
27.5°	474.1	295.0	165.0	0.0
25°	484.6	302.0	168.6	0.0
22.5°	495.1	305.5	172.1	0.0
20°	502.1	309.0	175.6	0.0
17.5°	512.7	312.5	179.1	0.0
15°	516.2	316.0	186.1	0.0
12.5°	523.2	319.5	186.1	0.0
10°	526.7	323.1	186.1	0.0
7.5°	533.8	323.1	186.1	0.0
5°	530.2	323.1	186.1	0.0
2.5°	530.2	323.1	186.1	0.0
0°	526.7	323.1	186.1	0.0

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