

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: P628481

Luminaire Tested: **IFLD-S-SA6C-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628481
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

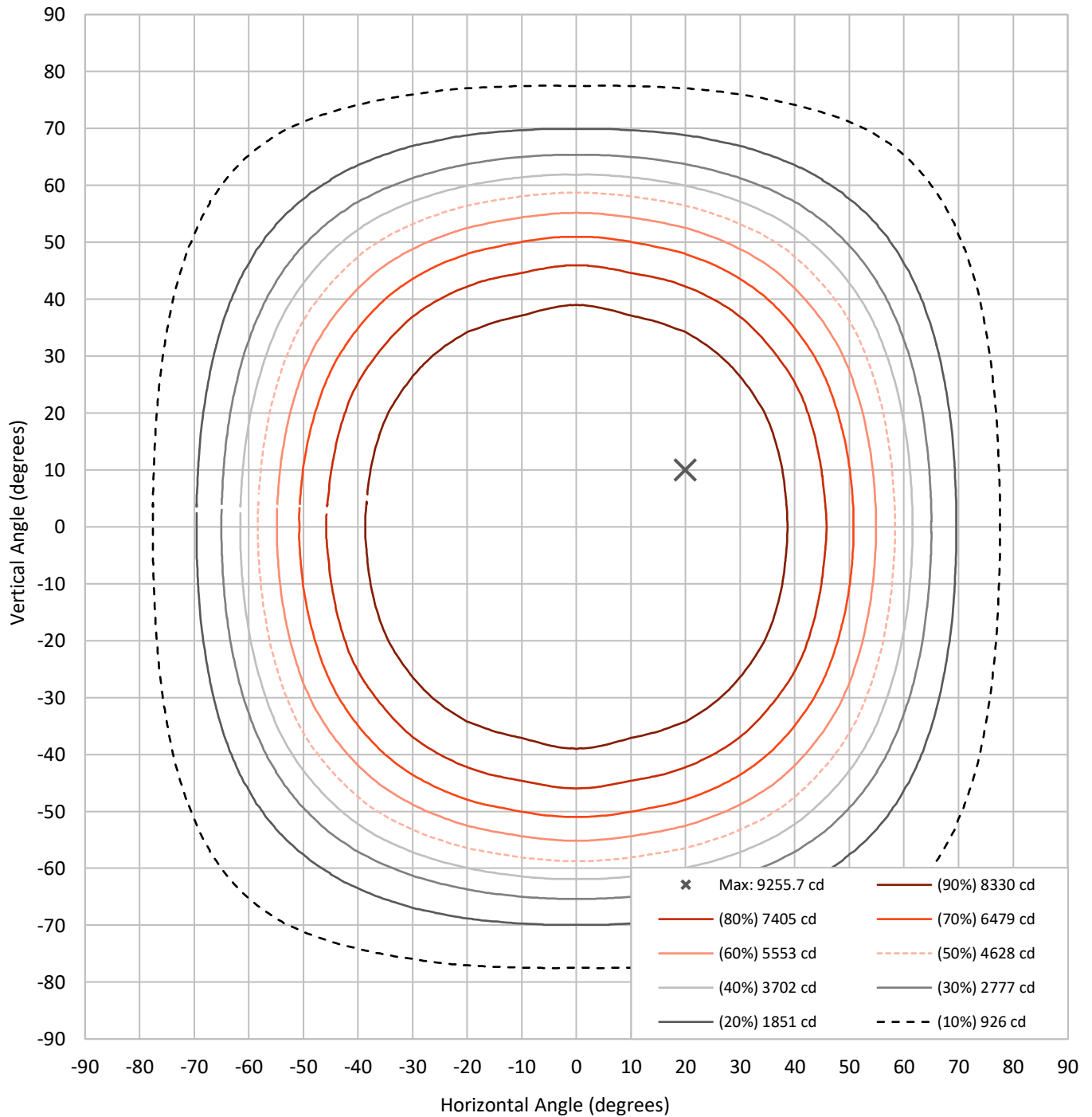
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	28395.2 lumens	Max Intensity:	9255.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	88.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	17423.9 lumens	Field Lumens:	20888.3 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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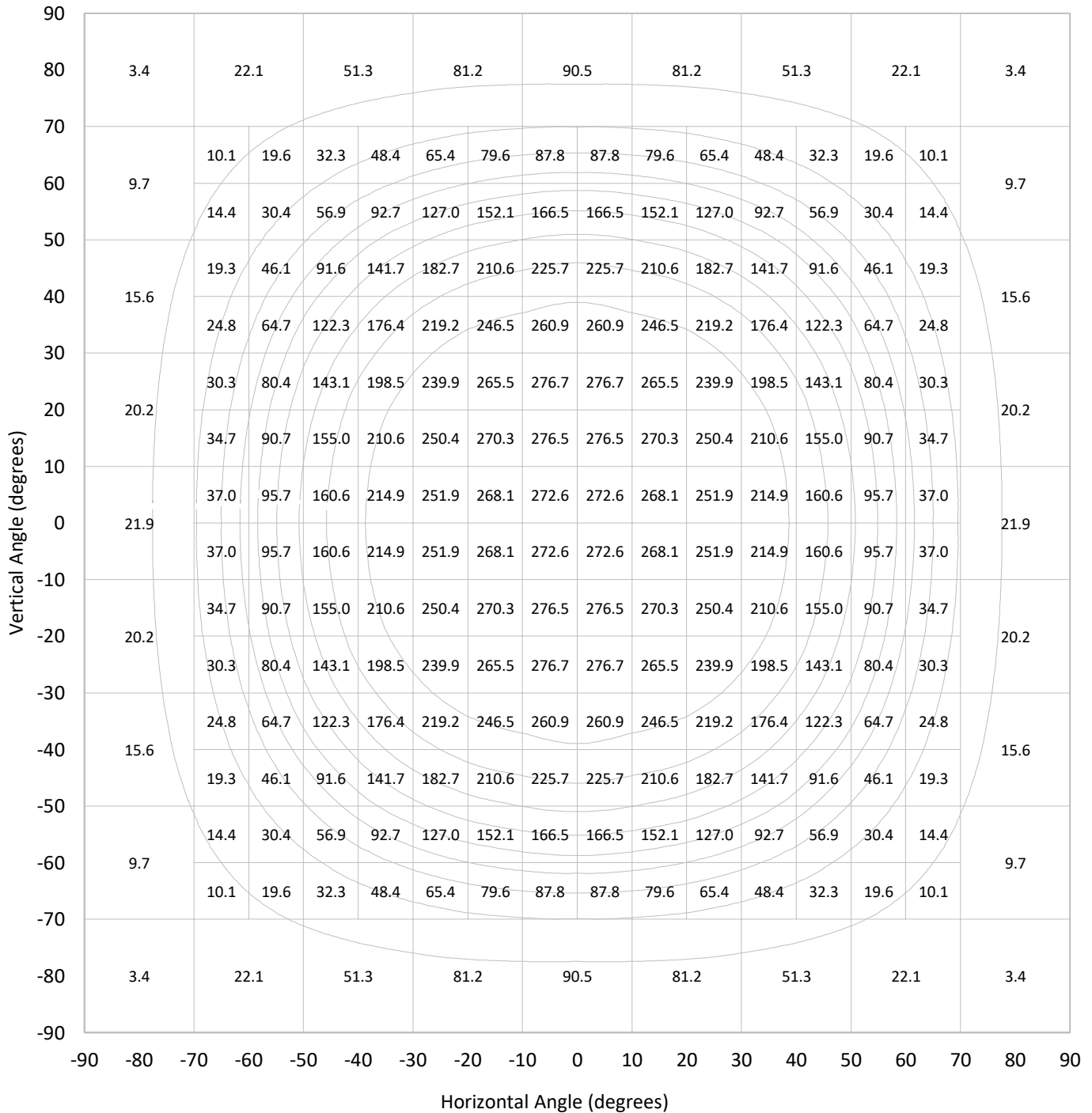
Iso-Candela Plot





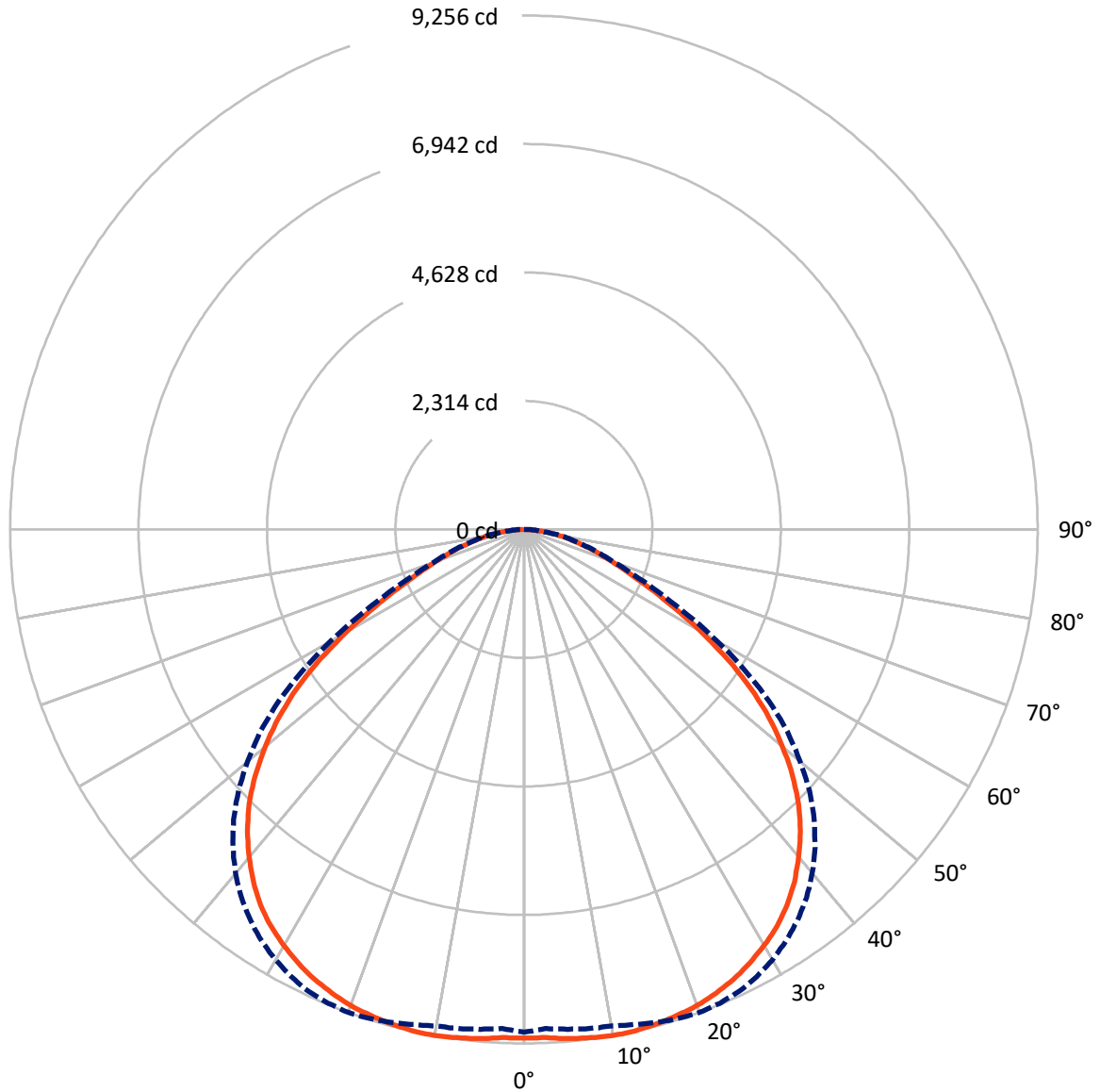
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Lumen Table



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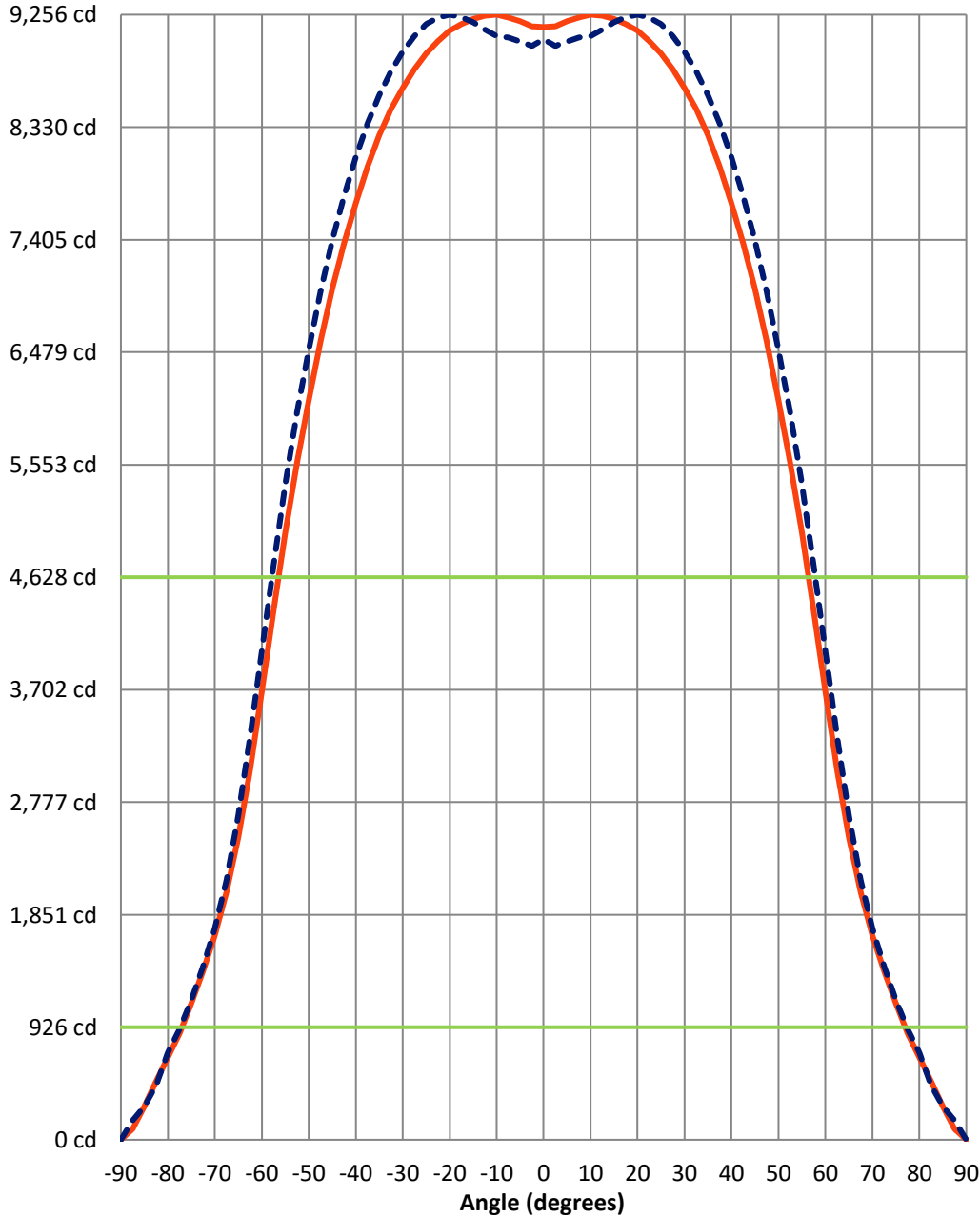
Luminous Intensity Polar Plot



— 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: 17423.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 20888.3
 Efficiency: 73.6%

Spill:
 Lumens: 7506.9
 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°	74.7	80.7	83.7	86.6	89.6	92.6	95.6	92.6	89.6	89.6	86.6
85°	200.2	206.1	209.1	230.0	251.0	262.9	277.9	274.9	274.9	271.9	268.9
82.5°	400.3	418.3	433.2	454.1	466.1	484.0	495.9	487.0	481.0	469.1	460.1
80°	711.1	717.0	720.0	723.0	708.1	705.1	699.1	690.1	678.2	663.3	648.3
77.5°	905.3	911.2	917.2	911.2	908.2	905.3	896.3	887.3	875.4	863.4	845.5
75°	1198.0	1198.0	1198.0	1189.1	1183.1	1174.1	1159.2	1144.3	1123.4	1099.5	1072.6
72.5°	1508.8	1505.8	1502.8	1484.9	1469.9	1452.0	1431.1	1413.2	1389.3	1362.4	1326.5
70°	1834.4	1840.4	1843.4	1819.5	1801.5	1777.6	1750.8	1717.9	1682.0	1643.2	1592.4
67.5°	2282.6	2276.6	2270.6	2237.7	2213.8	2181.0	2142.1	2094.3	2040.6	1980.8	1909.1
65°	2838.3	2847.2	2829.3	2796.4	2751.6	2697.8	2638.1	2569.4	2488.7	2399.1	2297.5
62.5°	3510.5	3525.4	3504.5	3462.7	3405.9	3334.2	3250.6	3152.0	3041.4	2915.9	2790.5
60°	4275.3	4272.3	4233.5	4176.7	4102.0	4012.4	3919.8	3812.2	3686.7	3540.4	3388.0
57.5°	4977.4	4971.4	4923.6	4866.9	4792.2	4696.6	4598.0	4484.4	4353.0	4197.6	4021.4
55°	5607.8	5601.8	5554.0	5494.3	5416.6	5321.0	5231.4	5123.8	4995.3	4831.0	4642.8
52.5°	6166.5	6169.5	6127.6	6061.9	5978.3	5885.7	5799.0	5691.5	5569.0	5404.6	5222.4
50°	6680.4	6677.4	6632.6	6572.8	6495.1	6405.5	6318.9	6211.3	6082.8	5924.5	5748.2
47.5°	7158.4	7152.4	7101.6	7035.9	6955.2	6877.5	6796.9	6701.3	6566.8	6408.5	6232.2
45°	7558.7	7546.8	7496.0	7433.2	7355.6	7286.9	7215.1	7143.4	7000.0	6853.6	6686.3
42.5°	7902.3	7899.3	7848.5	7785.8	7708.1	7648.4	7582.6	7493.0	7373.5	7239.1	7074.7
40°	8230.9	8207.0	8156.3	8096.5	8024.8	7974.0	7908.3	7818.7	7702.1	7570.7	7412.3
37.5°	8475.9	8478.9	8425.1	8359.4	8296.7	8248.9	8189.1	8105.5	8003.9	7875.4	7717.1
35°	8709.0	8694.0	8649.2	8592.5	8535.7	8481.9	8419.2	8347.5	8263.8	8144.3	7994.9
32.5°	8861.3	8882.3	8828.5	8768.7	8735.9	8694.0	8628.3	8553.6	8478.9	8359.4	8225.0
30°	9028.6	9010.7	8968.9	8918.1	8894.2	8867.3	8810.5	8738.8	8652.2	8544.6	8419.2
27.5°	9145.2	9136.2	9085.4	9037.6	9025.7	9001.8	8956.9	8894.2	8807.6	8703.0	8586.5
25°	9196.0	9201.9	9154.1	9127.2	9127.2	9112.3	9076.4	9022.7	8936.0	8840.4	8726.9
22.5°	9219.9	9213.9	9181.0	9175.0	9190.0	9178.0	9163.1	9115.3	9037.6	8959.9	8864.3
20°	9234.8	9193.0	9163.1	9187.0	9204.9	9201.9	9190.0	9160.1	9124.3	9058.5	8974.9
17.5°	9201.9	9175.0	9139.2	9175.0	9213.9	9216.9	9204.9	9187.0	9178.0	9136.2	9061.5
15°	9121.3	9100.4	9106.3	9142.2	9187.0	9201.9	9210.9	9231.8	9219.9	9187.0	9121.3
12.5°	9067.5	9040.6	9067.5	9103.3	9127.2	9136.2	9207.9	9246.7	9246.7	9216.9	9175.0
10°	9052.5	8998.8	9034.6	9067.5	9079.4	9133.2	9193.0	9234.8	9255.7	9231.8	9178.0
7.5°	9022.7	8986.8	9001.8	9016.7	9085.4	9124.3	9157.1	9201.9	9231.8	9228.8	9181.0
5°	9007.7	8962.9	8968.9	9031.6	9079.4	9106.3	9118.3	9157.1	9201.9	9210.9	9175.0
2.5°	8968.9	8948.0	8992.8	8998.8	9034.6	9055.5	9067.5	9103.3	9160.1	9181.0	9166.1
0°	8948.0	8918.1	8888.2	8912.1	8971.9	9016.7	9034.6	9088.4	9154.1	9175.0	9142.2



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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°	83.7	80.7	77.7	74.7	77.7	77.7	77.7	74.7	77.7	74.7	74.7
85°	259.9	248.0	239.0	227.1	215.1	206.1	194.2	182.2	179.3	176.3	170.3
82.5°	448.1	433.2	418.3	400.3	382.4	361.5	340.6	316.7	310.7	304.7	295.8
80°	630.4	609.5	588.6	567.7	549.7	528.8	504.9	478.0	460.1	445.2	427.2
77.5°	821.6	791.7	761.8	726.0	705.1	684.2	660.3	633.4	606.5	582.6	555.7
75°	1039.7	1006.8	977.0	941.1	902.3	863.4	824.6	788.7	749.9	714.0	678.2
72.5°	1281.7	1233.9	1186.1	1141.3	1093.5	1045.7	994.9	947.1	899.3	851.5	800.7
70°	1535.6	1475.9	1416.1	1356.4	1293.6	1230.9	1171.2	1111.4	1051.6	988.9	932.1
67.5°	1834.4	1765.7	1688.0	1604.4	1511.7	1431.1	1353.4	1281.7	1210.0	1138.3	1066.6
65°	2207.9	2112.3	2007.7	1894.2	1786.6	1679.1	1565.5	1458.0	1374.3	1290.7	1210.0
62.5°	2668.0	2533.5	2387.1	2240.7	2109.3	1968.9	1837.4	1697.0	1565.5	1446.0	1347.4
60°	3217.7	3035.4	2856.2	2668.0	2485.7	2294.5	2127.2	1953.9	1789.6	1643.2	1499.8
57.5°	3824.2	3612.1	3396.9	3166.9	2918.9	2694.9	2467.8	2240.7	2046.5	1852.3	1691.0
55°	4439.6	4215.6	3973.6	3713.6	3441.8	3154.9	2847.2	2593.3	2327.4	2100.3	1891.2
52.5°	5025.2	4792.2	4541.2	4302.2	3976.5	3647.9	3310.3	2975.7	2665.0	2375.2	2121.2
50°	5548.0	5321.0	5079.0	4801.1	4499.4	4149.8	3773.4	3396.9	3029.5	2688.9	2372.2
47.5°	6026.1	5805.0	5563.0	5285.1	5010.3	4621.9	4242.4	3827.2	3417.9	3026.5	2656.0
45°	6474.2	6250.1	5999.2	5733.3	5416.6	5070.0	4678.6	4260.4	3821.2	3382.0	2954.8
42.5°	6880.5	6656.5	6402.5	6127.6	5813.9	5470.4	5090.9	4669.7	4227.5	3749.5	3280.4
40°	7236.1	7018.0	6773.0	6486.2	6193.4	5831.9	5458.4	5058.1	4601.0	4120.0	3603.1
37.5°	7546.8	7343.6	7101.6	6817.8	6507.1	6184.4	5799.0	5398.7	4986.4	4463.5	3934.7
35°	7821.6	7633.4	7385.4	7116.6	6811.8	6471.2	6109.7	5718.3	5273.2	4783.2	4269.3
32.5°	8060.7	7869.4	7642.4	7373.5	7077.7	6758.0	6387.6	5993.2	5571.9	5073.0	4514.3
30°	8263.8	8078.6	7863.5	7609.5	7325.7	7009.0	6647.5	6250.1	5819.9	5324.0	4771.3
27.5°	8440.1	8263.8	8054.7	7818.7	7546.8	7242.0	6877.5	6477.2	6038.0	5560.0	5007.3
25°	8592.5	8422.2	8228.0	8003.9	7735.0	7436.2	7092.7	6674.4	6235.2	5754.2	5207.5
22.5°	8729.9	8565.6	8371.4	8153.3	7908.3	7609.5	7263.0	6847.7	6402.5	5927.5	5389.7
20°	8852.4	8700.0	8508.8	8284.7	8039.7	7738.0	7394.4	7000.0	6551.9	6085.8	5554.0
17.5°	8951.0	8816.5	8625.3	8389.3	8144.3	7851.5	7516.9	7155.4	6680.4	6220.3	5691.5
15°	9019.7	8888.2	8714.9	8475.9	8236.9	7947.1	7612.5	7239.1	6796.9	6327.8	5805.0
12.5°	9067.5	8927.1	8765.7	8544.6	8305.6	8018.8	7693.2	7325.7	6895.5	6423.4	5903.6
10°	9079.4	8951.0	8789.6	8592.5	8359.4	8081.6	7761.9	7397.4	6976.1	6498.1	5984.2
7.5°	9085.4	8962.9	8816.5	8628.3	8398.3	8129.4	7812.7	7454.2	7035.9	6560.9	6044.0
5°	9082.4	8965.9	8834.5	8652.2	8422.2	8156.3	7845.5	7493.0	7077.7	6602.7	6088.8
2.5°	9073.5	8968.9	8846.4	8670.1	8449.0	8186.1	7878.4	7537.8	7122.5	6638.5	6124.7
0°	9097.4	9007.7	8852.4	8664.2	8455.0	8186.1	7875.4	7543.8	7128.5	6635.5	6121.7



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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°	74.7	71.7	71.7	68.7	65.7	62.7	56.8	53.8	47.8	38.8	29.9
85°	161.3	152.4	143.4	137.4	131.5	125.5	116.5	107.6	95.6	77.7	59.8
82.5°	283.8	265.9	248.0	227.1	209.1	191.2	176.3	161.3	143.4	116.5	89.6
80°	406.3	379.4	352.5	322.7	295.8	265.9	239.0	215.1	191.2	155.4	119.5
77.5°	528.8	493.0	454.1	418.3	379.4	340.6	301.8	268.9	233.0	191.2	149.4
75°	642.3	600.5	564.7	513.9	466.1	415.3	364.5	319.7	274.9	224.1	179.3
72.5°	755.9	702.1	651.3	603.5	549.7	487.0	430.2	373.5	316.7	256.9	203.2
70°	869.4	803.7	740.9	684.2	624.4	561.7	493.0	427.2	358.5	286.8	224.1
67.5°	985.9	911.2	839.5	767.8	699.1	627.4	555.7	481.0	400.3	316.7	248.0
65°	1114.4	1021.8	935.1	854.5	773.8	696.1	615.5	534.8	445.2	349.6	268.9
62.5°	1242.9	1141.3	1039.7	938.1	848.5	761.8	675.2	585.6	487.0	385.4	289.8
60°	1380.3	1263.8	1147.3	1033.7	923.2	827.6	732.0	636.4	531.8	418.3	310.7
57.5°	1532.7	1392.2	1260.8	1132.3	1006.8	893.3	788.7	687.2	570.6	451.1	334.6
55°	1705.9	1532.7	1377.3	1233.9	1096.5	959.0	845.5	740.9	615.5	484.0	361.5
52.5°	1888.2	1688.0	1499.8	1338.5	1192.1	1036.7	899.3	782.8	660.3	516.9	385.4
50°	2100.3	1846.4	1637.2	1440.0	1275.7	1114.4	956.0	830.6	705.1	555.7	409.3
47.5°	2318.4	2037.6	1774.7	1559.5	1365.4	1189.1	1021.8	872.4	746.9	591.6	433.2
45°	2572.4	2219.8	1930.0	1676.1	1452.0	1266.8	1087.5	917.2	782.8	627.4	457.1
42.5°	2817.3	2434.9	2091.3	1804.5	1550.6	1341.5	1147.3	965.0	818.6	663.3	478.0
40°	3107.1	2650.0	2246.7	1927.0	1649.2	1413.2	1207.0	1015.8	851.5	696.1	498.9
37.5°	3385.0	2868.1	2434.9	2061.5	1744.8	1484.9	1266.8	1063.6	881.4	729.0	525.8
35°	3659.9	3110.1	2614.2	2187.0	1843.4	1565.5	1326.5	1108.4	911.2	755.9	549.7
32.5°	3922.8	3337.2	2796.4	2327.4	1950.9	1640.2	1380.3	1150.2	941.1	779.8	573.6
30°	4167.8	3552.3	2975.7	2470.8	2049.5	1708.9	1431.1	1192.1	977.0	800.7	597.5
27.5°	4391.8	3761.4	3154.9	2605.2	2142.1	1771.7	1484.9	1230.9	1006.8	821.6	618.4
25°	4595.0	3949.7	3319.3	2727.7	2225.8	1840.4	1535.6	1269.7	1033.7	839.5	636.4
22.5°	4786.2	4122.9	3468.6	2850.2	2327.4	1909.1	1583.4	1305.6	1060.6	857.5	654.3
20°	4953.5	4281.3	3612.1	2972.7	2417.0	1971.8	1625.3	1338.5	1084.5	869.4	672.2
17.5°	5088.0	4421.7	3740.5	3080.3	2494.7	2025.6	1661.1	1368.3	1105.4	884.3	684.2
15°	5207.5	4541.2	3848.1	3172.9	2563.4	2070.4	1694.0	1392.2	1123.4	893.3	699.1
12.5°	5309.0	4642.8	3940.7	3253.5	2623.1	2109.3	1720.9	1410.2	1138.3	902.3	708.1
10°	5392.7	4723.5	4018.4	3316.3	2670.9	2139.1	1741.8	1428.1	1150.2	911.2	717.0
7.5°	5455.4	4783.2	4075.1	3370.1	2709.8	2160.1	1759.7	1440.0	1162.2	917.2	732.0
5°	5503.2	4834.0	4120.0	3405.9	2739.7	2189.9	1780.6	1455.0	1174.1	923.2	732.0
2.5°	5539.1	4875.8	4155.8	3435.8	2763.6	2184.0	1780.6	1452.0	1174.1	923.2	729.0
0°	5533.1	4878.8	4152.8	3435.8	2763.6	2178.0	1780.6	1449.0	1174.1	923.2	729.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	20.9	14.9	6.0	0.0
85°	44.8	29.9	14.9	0.0
82.5°	65.7	41.8	20.9	0.0
80°	86.6	56.8	26.9	0.0
77.5°	110.5	71.7	35.9	0.0
75°	131.5	83.7	41.8	0.0
72.5°	152.4	98.6	47.8	0.0
70°	170.3	110.5	53.8	0.0
67.5°	188.2	125.5	62.7	0.0
65°	203.2	137.4	68.7	0.0
62.5°	215.1	152.4	74.7	0.0
60°	230.0	164.3	80.7	0.0
57.5°	242.0	173.3	86.6	0.0
55°	253.9	179.3	92.6	0.0
52.5°	265.9	188.2	98.6	0.0
50°	277.9	197.2	104.6	0.0
47.5°	289.8	203.2	107.6	0.0
45°	307.7	212.1	113.5	0.0
42.5°	322.7	218.1	119.5	0.0
40°	337.6	224.1	122.5	0.0
37.5°	352.5	230.0	128.5	0.0
35°	367.5	236.0	131.5	0.0
32.5°	379.4	242.0	134.4	0.0
30°	391.4	248.0	137.4	0.0
27.5°	403.3	251.0	140.4	0.0
25°	412.3	256.9	143.4	0.0
22.5°	421.3	259.9	146.4	0.0
20°	427.2	262.9	149.4	0.0
17.5°	436.2	265.9	152.4	0.0
15°	439.2	268.9	158.3	0.0
12.5°	445.2	271.9	158.3	0.0
10°	448.1	274.9	158.3	0.0
7.5°	454.1	274.9	158.3	0.0
5°	451.1	274.9	158.3	0.0
2.5°	451.1	274.9	158.3	0.0
0°	448.1	274.9	158.3	0.0

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