

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: P624564

Luminaire Tested: **IFLD-S-SA6B-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624564
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 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:	23010.6 lumens	Max Intensity:	12779.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	94.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	9956.4 lumens	Field Lumens:	16303.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

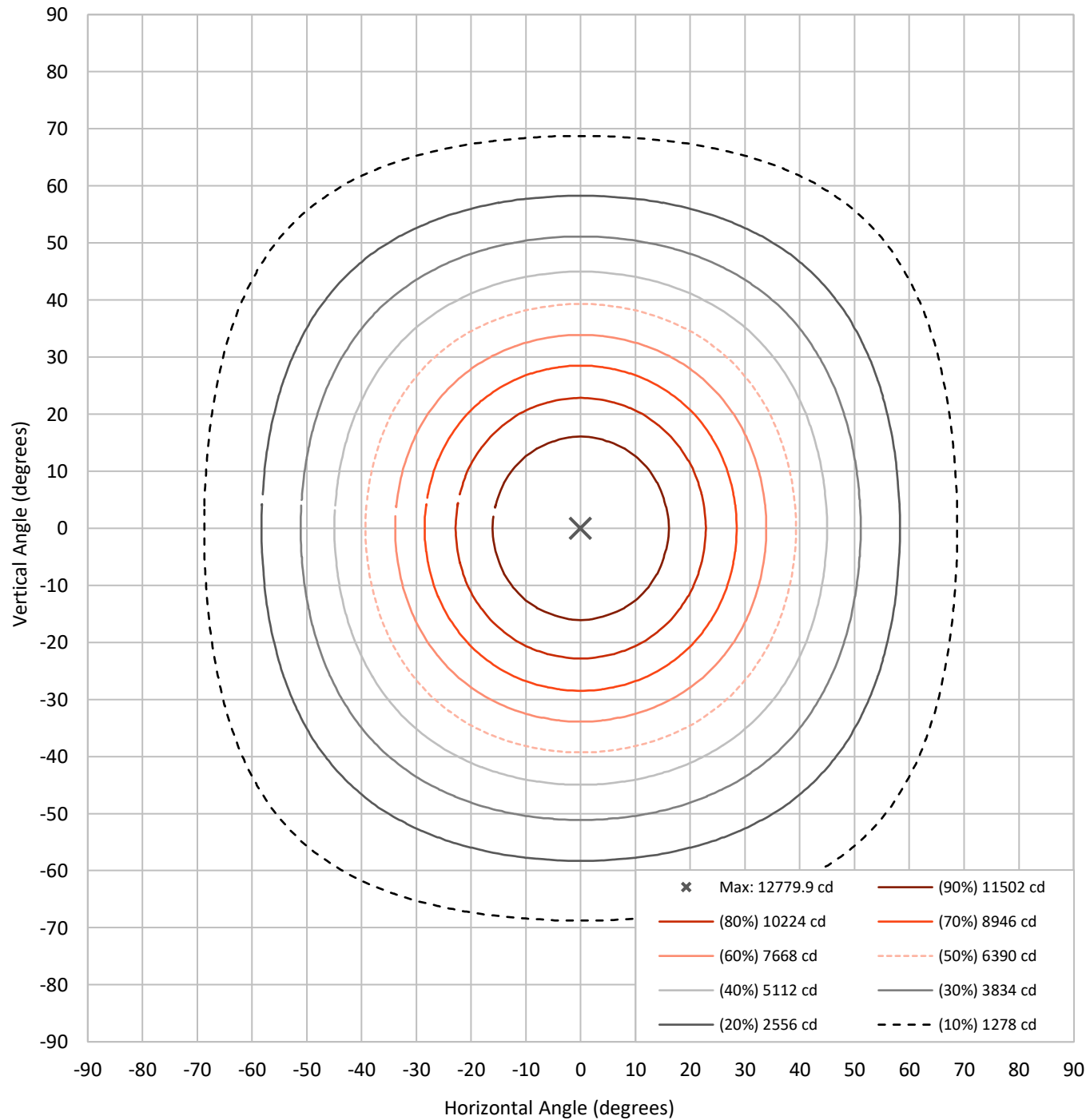
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





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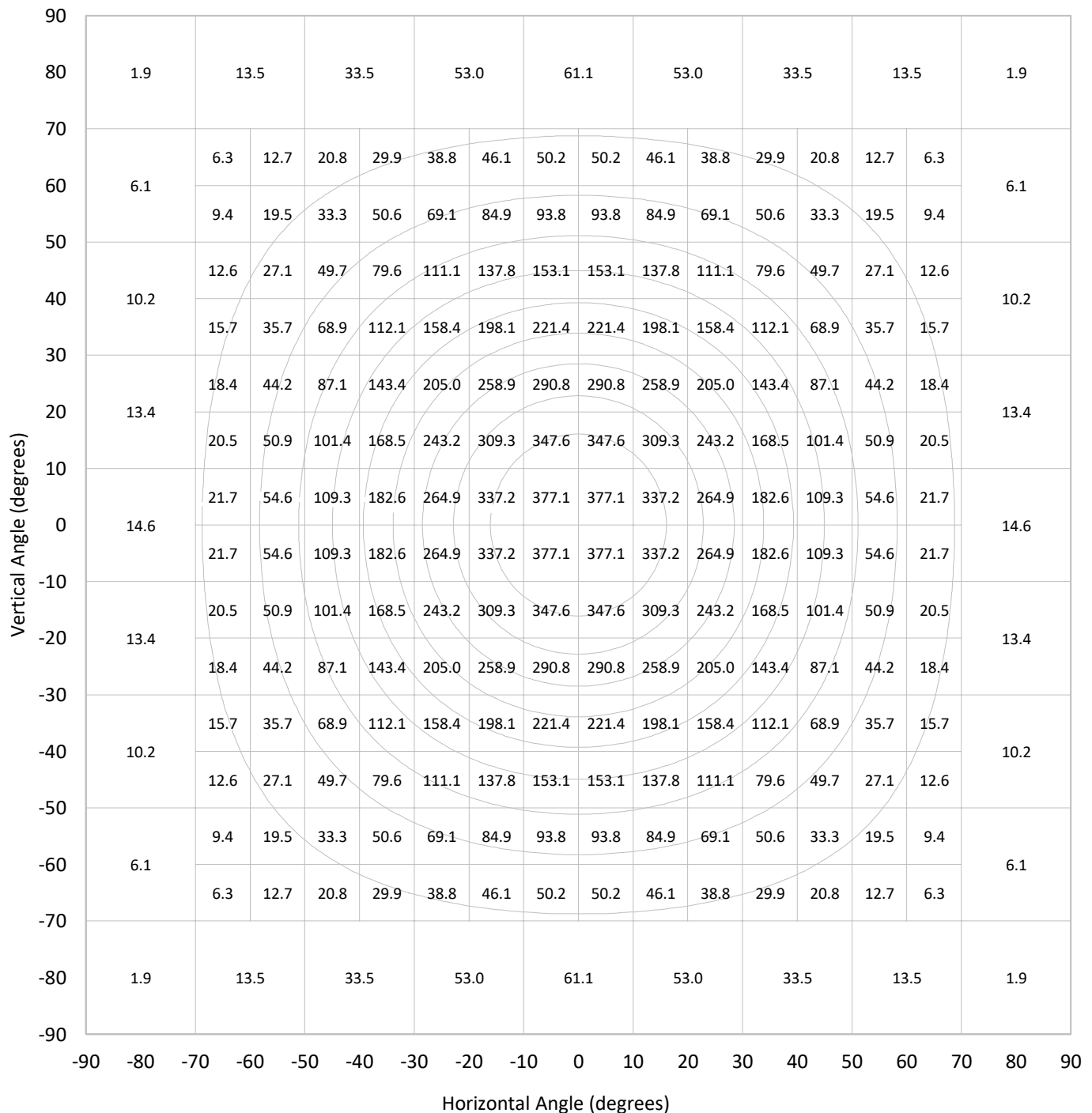
Iso-Candela Plot



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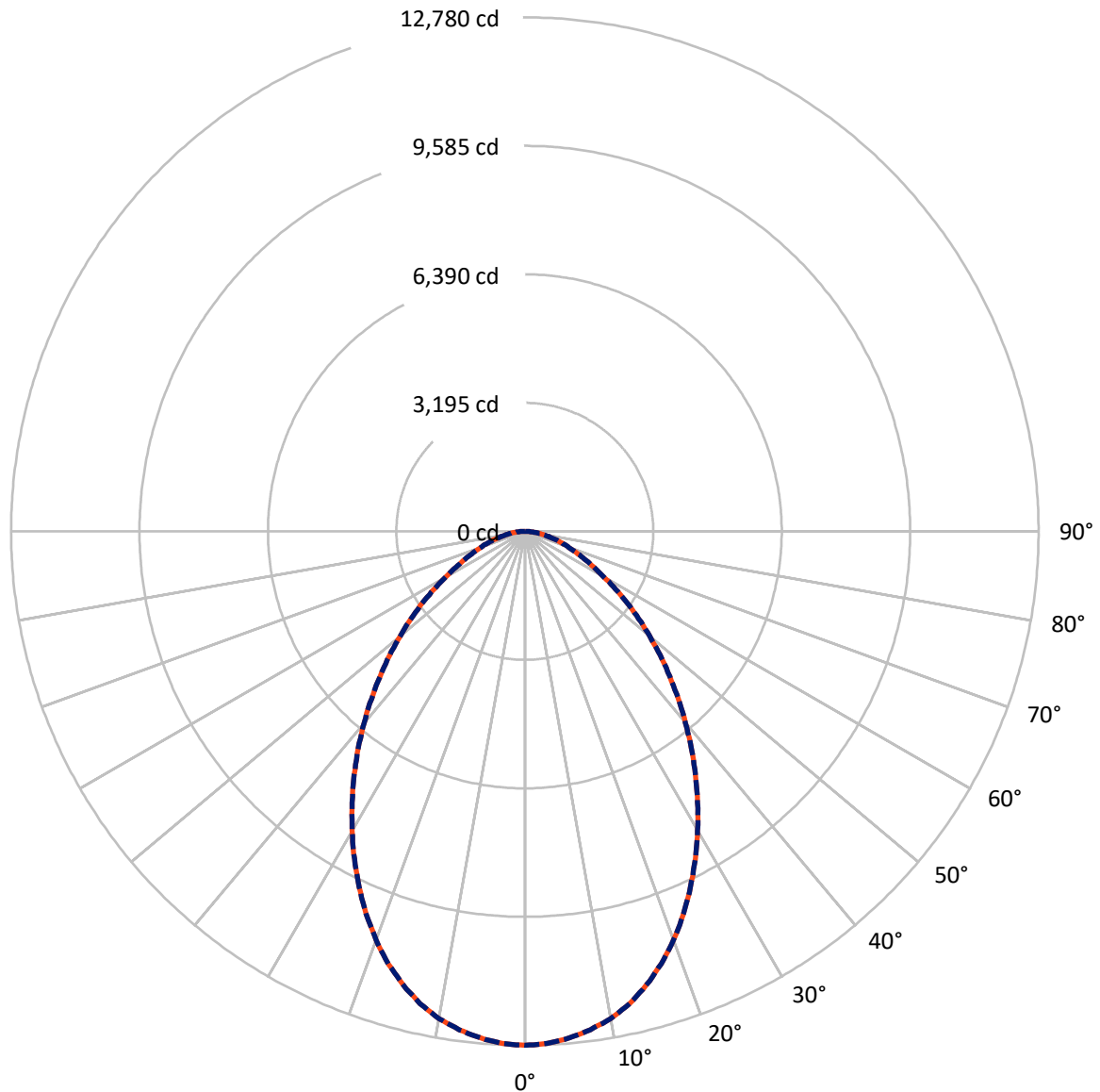
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Lumen Table



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Luminous Intensity Polar Plot

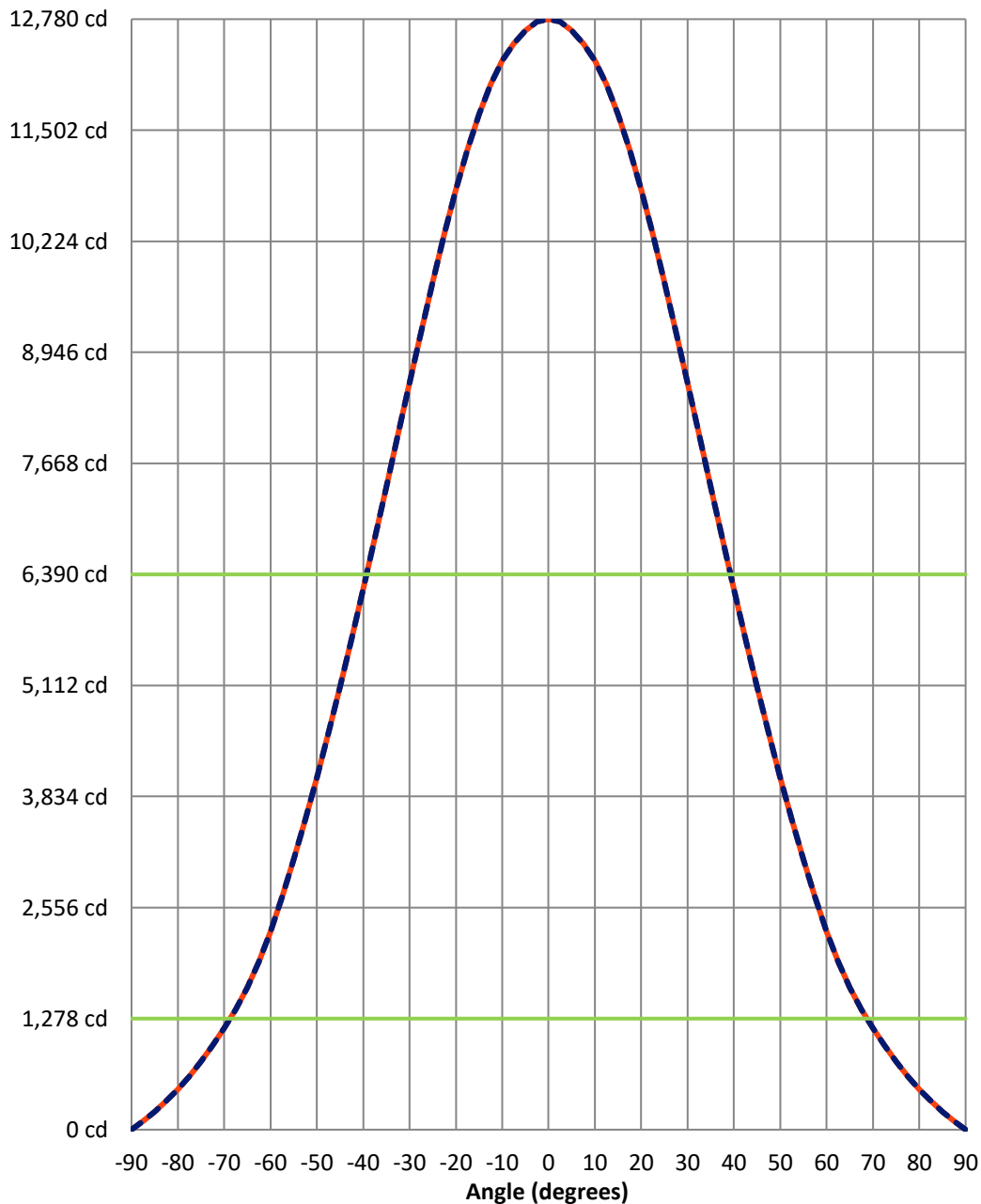


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 9956.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 16303.3
Efficiency: 70.9%

Spill:

Lumens: 6707.2
Efficiency: 29.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-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°	98.4	98.4	98.4	98.4	98.4	98.4	98.4	93.6	93.6	91.2	88.8
85°	206.3	206.3	206.3	206.3	206.3	201.5	199.1	196.7	194.3	189.5	187.1
82.5°	331.1	331.1	331.1	331.1	326.3	321.5	319.1	314.3	309.5	302.3	295.1
80°	463.0	463.0	463.0	463.0	455.8	451.0	443.8	439.0	431.8	422.2	412.6
77.5°	614.2	614.2	614.2	607.0	602.2	595.0	587.8	578.2	568.6	556.6	542.2
75°	784.5	784.5	784.5	774.9	767.7	760.5	748.5	736.5	722.1	705.3	686.1
72.5°	969.2	969.2	969.2	957.2	950.0	938.0	923.6	906.9	890.1	868.5	844.5
70°	1168.4	1168.4	1168.4	1154.0	1142.0	1130.0	1110.8	1091.6	1067.6	1043.6	1014.8
67.5°	1384.3	1384.3	1384.3	1367.5	1353.1	1336.3	1314.7	1290.7	1261.9	1228.3	1194.7
65°	1636.2	1636.2	1626.6	1612.2	1595.4	1571.4	1545.0	1511.4	1475.4	1432.3	1386.7
62.5°	1933.7	1933.7	1919.3	1902.5	1880.9	1849.7	1813.7	1770.5	1720.1	1665.0	1609.8
60°	2279.1	2279.1	2262.3	2240.7	2209.6	2171.2	2123.2	2068.0	2005.6	1936.1	1868.9
57.5°	2677.4	2677.4	2655.8	2627.0	2588.6	2540.6	2480.7	2411.1	2331.9	2245.5	2161.6
55°	3109.2	3109.2	3082.8	3049.2	3003.7	2946.1	2874.1	2792.5	2696.6	2598.2	2490.3
52.5°	3567.4	3567.4	3536.3	3497.9	3445.1	3377.9	3296.3	3200.4	3090.0	2974.9	2847.7
50°	4049.7	4049.7	4013.7	3970.5	3910.5	3831.3	3737.8	3627.4	3505.1	3370.7	3224.4
47.5°	4565.5	4565.5	4524.7	4474.3	4402.3	4311.2	4200.8	4073.6	3934.5	3783.4	3617.8
45°	5095.7	5095.7	5050.1	4992.5	4913.3	4810.2	4687.8	4565.5	4387.9	4212.8	4020.9
42.5°	5647.4	5647.4	5594.7	5529.9	5438.7	5326.0	5186.8	5028.5	4853.4	4656.6	4447.9
40°	6220.8	6220.8	6160.9	6086.5	5985.7	5856.2	5700.2	5522.7	5326.0	5107.7	4877.3
37.5°	6806.2	6806.2	6739.0	6657.5	6544.7	6400.8	6225.6	6028.9	5808.2	5565.9	5311.6
35°	7396.4	7396.4	7322.0	7233.2	7108.5	6950.2	6760.6	6542.3	6297.6	6033.7	5748.2
32.5°	7998.6	7998.6	7917.0	7816.2	7674.7	7499.5	7290.8	7053.3	6806.2	6499.1	6187.2
30°	8593.5	8593.5	8504.8	8394.4	8243.3	8051.3	7823.4	7561.9	7271.6	6957.3	6621.5
27.5°	9178.9	9154.9	9080.5	8963.0	8797.4	8593.5	8346.4	8063.3	7749.0	7403.6	7043.7
25°	9754.7	9728.3	9646.7	9517.2	9339.6	9116.5	8850.2	8547.9	8209.7	7845.0	7451.6
22.5°	10306.5	10277.7	10191.3	10052.2	9862.6	9620.3	9334.8	9011.0	8651.1	8260.1	7845.0
20°	10817.5	10786.3	10697.5	10551.2	10354.5	10097.8	9795.5	9447.6	9063.7	8651.1	8209.7
17.5°	11278.1	11246.9	11153.4	11002.2	10817.5	10532.0	10220.1	9853.0	9447.6	9011.0	8547.9
15°	11683.5	11650.0	11554.0	11402.9	11191.7	10923.0	10594.4	10220.1	9795.5	9334.8	8850.2
12.5°	12029.0	11995.4	11897.1	11745.9	11527.6	11258.9	10923.0	10532.0	10097.8	9620.3	9116.5
10°	12302.5	12268.9	12175.4	12031.4	11805.9	11527.6	11191.7	10817.5	10354.5	9862.6	9339.6
7.5°	12499.2	12468.1	12381.7	12237.7	12031.4	11745.9	11402.9	11002.2	10551.2	10052.2	9517.2
5°	12648.0	12612.0	12525.6	12381.7	12175.4	11897.1	11554.0	11153.4	10697.5	10191.3	9646.7
2.5°	12751.1	12708.0	12612.0	12468.1	12268.9	11995.4	11650.0	11246.9	10786.3	10277.7	9728.3
0°	12779.9	12751.1	12648.0	12499.2	12302.5	12029.0	11683.5	11278.1	10817.5	10306.5	9754.7

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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°	86.4	86.4	84.0	81.6	79.2	74.4	72.0	69.6	67.2	62.4	60.0
85°	182.3	177.5	172.7	167.9	160.7	155.9	148.7	143.9	136.7	129.6	122.4
82.5°	287.9	280.7	271.1	263.9	254.3	242.3	232.7	220.7	208.7	199.1	187.1
80°	403.0	391.1	379.1	367.1	352.7	338.3	323.9	309.5	292.7	275.9	259.1
77.5°	527.8	511.0	494.2	475.0	458.2	439.0	419.8	400.6	379.1	357.5	335.9
75°	666.9	645.4	621.4	597.4	575.8	549.4	523.0	496.6	467.8	441.4	412.6
72.5°	818.1	791.7	762.9	734.1	702.9	669.3	635.8	599.8	566.2	532.6	496.6
70°	981.2	950.0	914.1	878.1	839.7	798.9	758.1	714.9	671.7	628.6	585.4
67.5°	1156.4	1118.0	1074.8	1031.6	983.6	935.6	887.7	837.3	784.5	731.7	681.3
65°	1343.5	1295.5	1245.1	1189.9	1134.8	1079.6	1022.0	962.0	902.1	839.7	784.5
62.5°	1552.2	1492.2	1427.5	1360.3	1297.9	1230.7	1168.4	1094.0	1022.0	952.4	882.9
60°	1794.5	1715.3	1636.2	1552.2	1473.0	1386.7	1309.9	1228.3	1146.8	1067.6	986.0
57.5°	2065.6	1964.9	1868.9	1768.1	1662.6	1566.6	1468.2	1369.9	1278.7	1185.1	1096.4
55°	2372.7	2250.3	2130.4	2005.6	1883.3	1763.3	1638.6	1528.2	1415.5	1309.9	1206.7
52.5°	2708.6	2569.4	2420.7	2279.1	2123.2	1974.4	1835.3	1696.2	1564.2	1437.1	1319.5
50°	3068.4	2905.3	2735.0	2562.2	2384.7	2209.6	2041.6	1878.5	1724.9	1576.2	1437.1
47.5°	3442.7	3258.0	3063.6	2866.9	2677.4	2463.9	2262.3	2077.6	1892.9	1724.9	1564.2
45°	3826.5	3617.8	3404.3	3181.2	2958.1	2727.8	2504.6	2279.1	2077.6	1878.5	1696.2
42.5°	4222.4	3987.3	3749.8	3502.7	3255.6	3003.7	2751.8	2504.6	2262.3	2041.6	1835.3
40°	4630.2	4371.1	4100.0	3831.3	3567.4	3279.6	3003.7	2727.8	2463.9	2209.6	1974.4
37.5°	5038.1	4755.0	4462.3	4160.0	3857.7	3567.4	3255.6	2958.1	2677.4	2384.7	2123.2
35°	5448.3	5136.4	4819.8	4491.1	4160.0	3831.3	3502.7	3181.2	2866.9	2562.2	2279.1
32.5°	5861.0	5520.3	5170.0	4819.8	4462.3	4100.0	3749.8	3404.3	3063.6	2735.0	2420.7
30°	6266.4	5897.0	5520.3	5136.4	4755.0	4371.1	3987.3	3617.8	3258.0	2905.3	2569.4
27.5°	6662.3	6266.4	5861.0	5448.3	5038.1	4630.2	4222.4	3826.5	3442.7	3068.4	2708.6
25°	7043.7	6621.5	6187.2	5748.2	5311.6	4877.3	4447.9	4020.9	3617.8	3224.4	2847.7
22.5°	7403.6	6957.3	6499.1	6033.7	5565.9	5107.7	4656.6	4212.8	3783.4	3370.7	2974.9
20°	7749.0	7271.6	6806.2	6297.6	5808.2	5326.0	4853.4	4387.9	3934.5	3505.1	3090.0
17.5°	8063.3	7561.9	7053.3	6542.3	6028.9	5522.7	5028.5	4565.5	4073.6	3627.4	3200.4
15°	8346.4	7823.4	7290.8	6760.6	6225.6	5700.2	5186.8	4687.8	4200.8	3737.8	3296.3
12.5°	8593.5	8051.3	7499.5	6950.2	6400.8	5856.2	5326.0	4810.2	4311.2	3831.3	3377.9
10°	8797.4	8243.3	7674.7	7108.5	6544.7	5985.7	5438.7	4913.3	4402.3	3910.5	3445.1
7.5°	8963.0	8394.4	7816.2	7233.2	6657.5	6086.5	5529.9	4992.5	4474.3	3970.5	3497.9
5°	9080.5	8504.8	7917.0	7322.0	6739.0	6160.9	5594.7	5050.1	4524.7	4013.7	3536.3
2.5°	9154.9	8593.5	7998.6	7396.4	6806.2	6220.8	5647.4	5095.7	4565.5	4049.7	3567.4
0°	9178.9	8593.5	7998.6	7396.4	6806.2	6220.8	5647.4	5095.7	4565.5	4049.7	3567.4

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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°	57.6	52.8	48.0	45.6	40.8	38.4	33.6	28.8	26.4	21.6	16.8
85°	115.2	105.6	98.4	91.2	84.0	74.4	67.2	60.0	50.4	43.2	33.6
82.5°	175.1	163.1	151.1	139.1	127.2	115.2	100.8	88.8	76.8	64.8	50.4
80°	242.3	223.1	206.3	189.5	172.7	155.9	136.7	120.0	100.8	84.0	67.2
77.5°	311.9	290.3	266.3	242.3	218.3	196.7	172.7	151.1	129.6	105.6	84.0
75°	386.3	357.5	331.1	299.9	271.1	239.9	211.1	182.3	155.9	129.6	100.8
72.5°	463.0	427.0	391.1	357.5	321.5	285.5	251.9	215.9	182.3	151.1	120.0
70°	542.2	499.0	455.8	415.0	374.3	331.1	292.7	251.9	211.1	172.7	136.7
67.5°	626.2	575.8	525.4	472.6	427.0	379.1	331.1	285.5	239.9	196.7	155.9
65°	717.3	657.3	595.0	539.8	479.8	427.0	374.3	321.5	271.1	218.3	172.7
62.5°	810.9	741.3	671.7	602.2	539.8	472.6	415.0	357.5	299.9	242.3	189.5
60°	906.9	827.7	748.5	671.7	595.0	525.4	455.8	391.1	331.1	266.3	206.3
57.5°	1005.2	916.5	827.7	741.3	657.3	575.8	499.0	427.0	357.5	290.3	223.1
55°	1106.0	1005.2	906.9	810.9	717.3	626.2	542.2	463.0	386.3	311.9	242.3
52.5°	1206.7	1096.4	986.0	882.9	784.5	681.3	585.4	496.6	412.6	335.9	259.1
50°	1309.9	1185.1	1067.6	952.4	839.7	731.7	628.6	532.6	441.4	357.5	275.9
47.5°	1415.5	1278.7	1146.8	1022.0	902.1	784.5	671.7	566.2	467.8	379.1	292.7
45°	1528.2	1369.9	1228.3	1094.0	962.0	837.3	714.9	599.8	496.6	400.6	309.5
42.5°	1638.6	1468.2	1309.9	1168.4	1022.0	887.7	758.1	635.8	523.0	419.8	323.9
40°	1763.3	1566.6	1386.7	1230.7	1079.6	935.6	798.9	669.3	549.4	439.0	338.3
37.5°	1883.3	1662.6	1473.0	1297.9	1134.8	983.6	839.7	702.9	575.8	458.2	352.7
35°	2005.6	1768.1	1552.2	1360.3	1189.9	1031.6	878.1	734.1	597.4	475.0	367.1
32.5°	2130.4	1868.9	1636.2	1427.5	1245.1	1074.8	914.1	762.9	621.4	494.2	379.1
30°	2250.3	1964.9	1715.3	1492.2	1295.5	1118.0	950.0	791.7	645.4	511.0	391.1
27.5°	2372.7	2065.6	1794.5	1552.2	1343.5	1156.4	981.2	818.1	666.9	527.8	403.0
25°	2490.3	2161.6	1868.9	1609.8	1386.7	1194.7	1014.8	844.5	686.1	542.2	412.6
22.5°	2598.2	2245.5	1936.1	1665.0	1432.3	1228.3	1043.6	868.5	705.3	556.6	422.2
20°	2696.6	2331.9	2005.6	1720.1	1475.4	1261.9	1067.6	890.1	722.1	568.6	431.8
17.5°	2792.5	2411.1	2068.0	1770.5	1511.4	1290.7	1091.6	906.9	736.5	578.2	439.0
15°	2874.1	2480.7	2123.2	1813.7	1545.0	1314.7	1110.8	923.6	748.5	587.8	443.8
12.5°	2946.1	2540.6	2171.2	1849.7	1571.4	1336.3	1130.0	938.0	760.5	595.0	451.0
10°	3003.7	2588.6	2209.6	1880.9	1595.4	1353.1	1142.0	950.0	767.7	602.2	455.8
7.5°	3049.2	2627.0	2240.7	1902.5	1612.2	1367.5	1154.0	957.2	774.9	607.0	463.0
5°	3082.8	2655.8	2262.3	1919.3	1626.6	1384.3	1168.4	969.2	784.5	614.2	463.0
2.5°	3109.2	2677.4	2279.1	1933.7	1636.2	1384.3	1168.4	969.2	784.5	614.2	463.0
0°	3109.2	2677.4	2279.1	1933.7	1636.2	1384.3	1168.4	969.2	784.5	614.2	463.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.0	9.6	4.8	0.0
85°	26.4	16.8	9.6	0.0
82.5°	38.4	26.4	12.0	0.0
80°	50.4	33.6	16.8	0.0
77.5°	64.8	43.2	21.6	0.0
75°	76.8	50.4	26.4	0.0
72.5°	88.8	60.0	28.8	0.0
70°	100.8	67.2	33.6	0.0
67.5°	115.2	74.4	38.4	0.0
65°	127.2	84.0	40.8	0.0
62.5°	139.1	91.2	45.6	0.0
60°	151.1	98.4	48.0	0.0
57.5°	163.1	105.6	52.8	0.0
55°	175.1	115.2	57.6	0.0
52.5°	187.1	122.4	60.0	0.0
50°	199.1	129.6	62.4	0.0
47.5°	208.7	136.7	67.2	0.0
45°	220.7	143.9	69.6	0.0
42.5°	232.7	148.7	72.0	0.0
40°	242.3	155.9	74.4	0.0
37.5°	254.3	160.7	79.2	0.0
35°	263.9	167.9	81.6	0.0
32.5°	271.1	172.7	84.0	0.0
30°	280.7	177.5	86.4	0.0
27.5°	287.9	182.3	86.4	0.0
25°	295.1	187.1	88.8	0.0
22.5°	302.3	189.5	91.2	0.0
20°	309.5	194.3	93.6	0.0
17.5°	314.3	196.7	93.6	0.0
15°	319.1	199.1	98.4	0.0
12.5°	321.5	201.5	98.4	0.0
10°	326.3	206.3	98.4	0.0
7.5°	331.1	206.3	98.4	0.0
5°	331.1	206.3	98.4	0.0
2.5°	331.1	206.3	98.4	0.0
0°	331.1	206.3	98.4	0.0

(END OF REPORT)