

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: P623934

Luminaire Tested: **IFLD-S-SA3C-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623934
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21990.9 lumens	Max Intensity:	12213.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	136.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' 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:	9515.3 lumens	Field Lumens:	15580.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

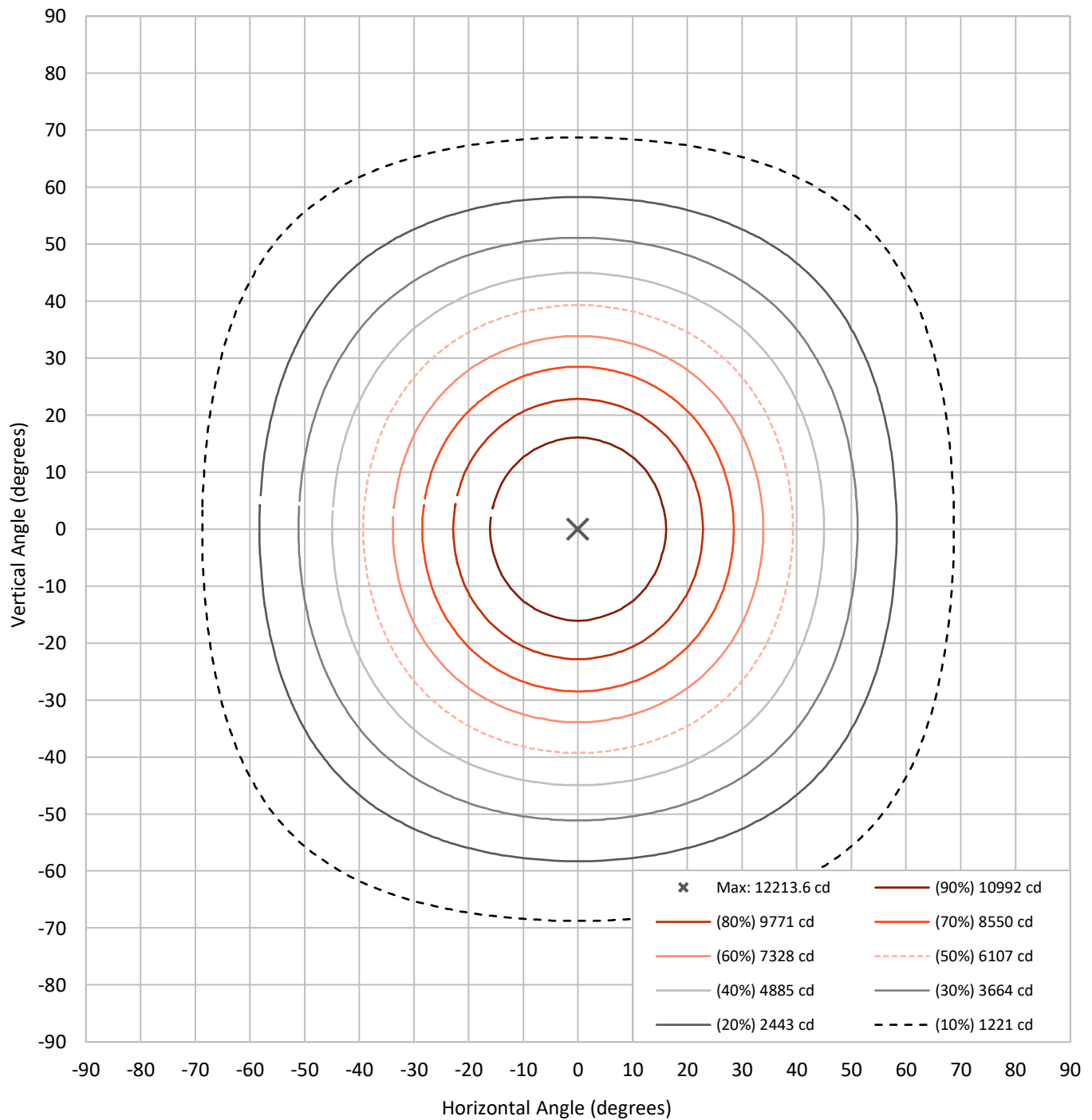
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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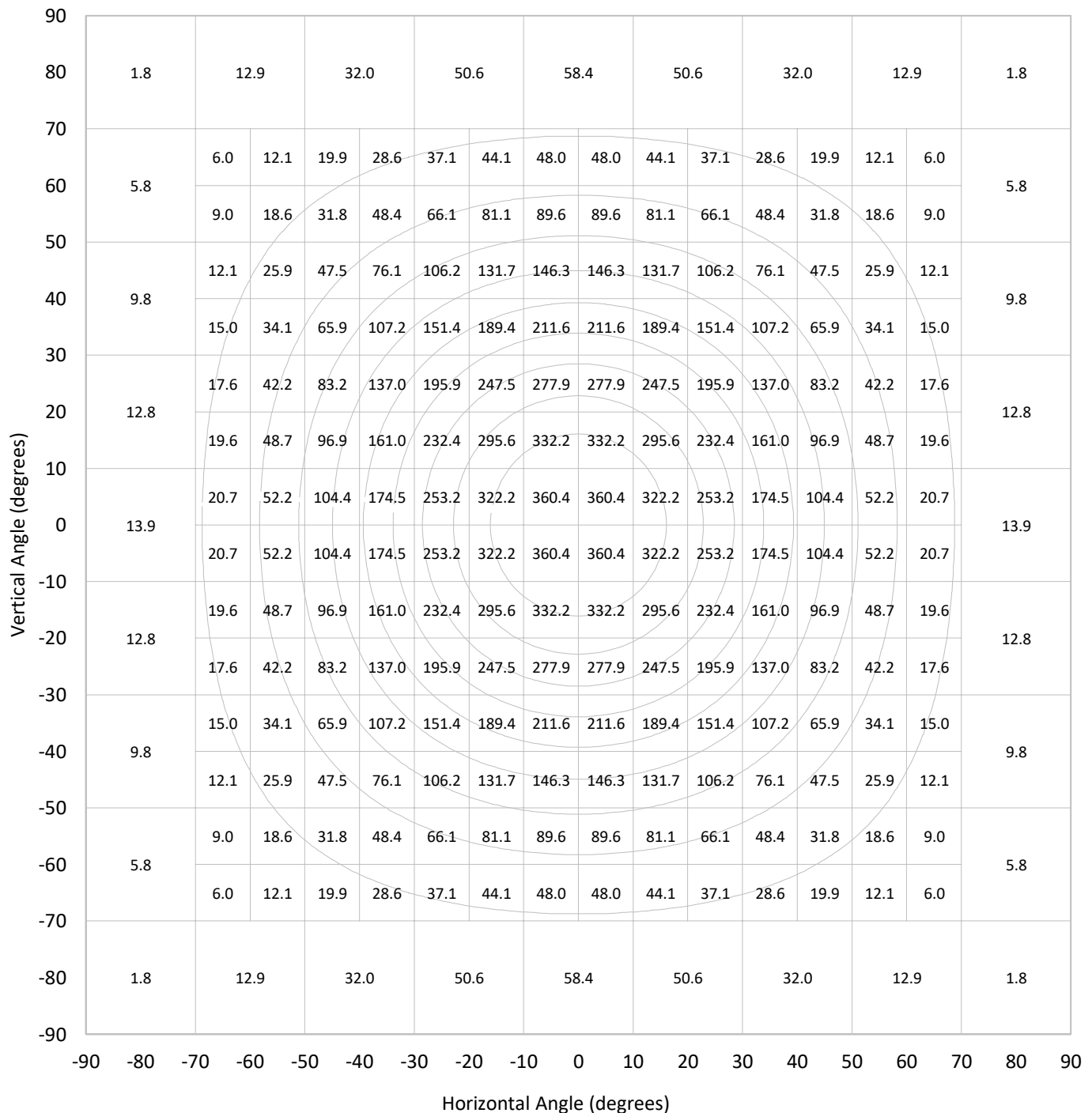
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Iso-Candela Plot



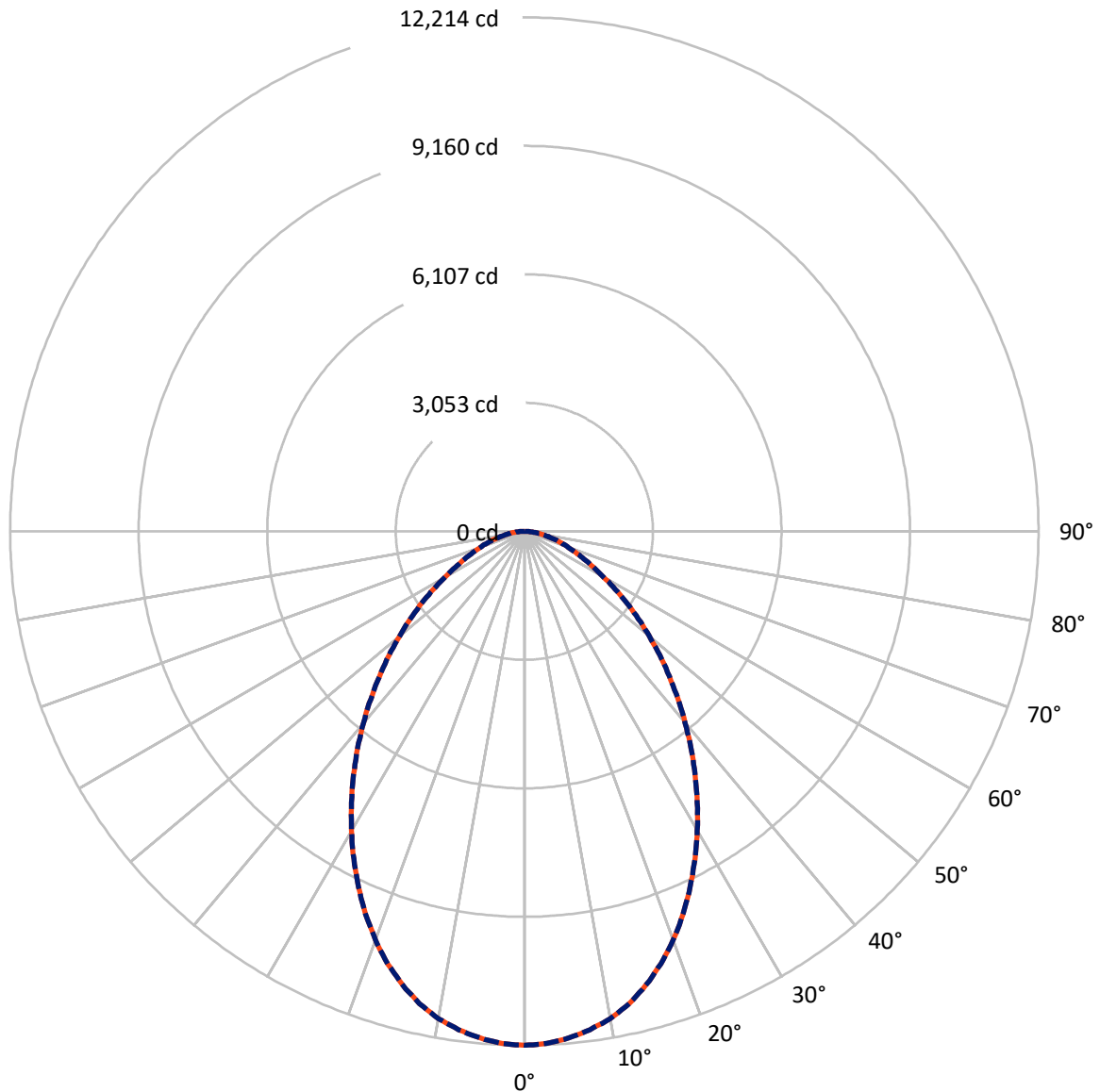
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Lumen Table



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Luminous Intensity Polar Plot

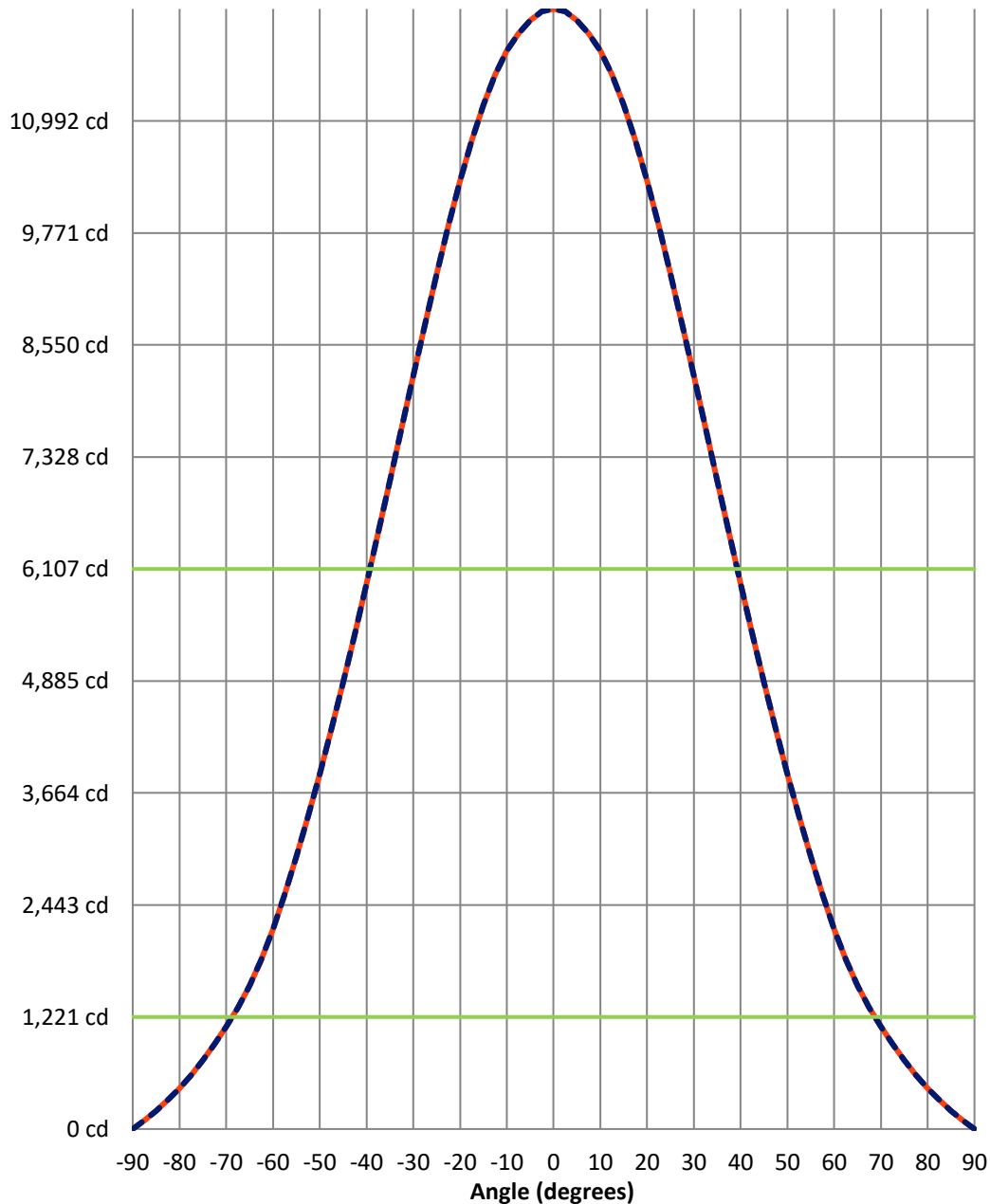


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 9515.3
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 15580.9
Efficiency: 70.9%

Spill:

Lumens: 6410
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°	94.0	94.0	94.0	94.0	94.0	94.0	94.0	89.4	89.4	87.1	84.8
85°	197.2	197.2	197.2	197.2	197.2	192.6	190.3	188.0	185.7	181.1	178.8
82.5°	316.4	316.4	316.4	316.4	311.8	307.2	304.9	300.4	295.8	288.9	282.0
80°	442.5	442.5	442.5	442.5	435.6	431.0	424.2	419.6	412.7	403.5	394.4
77.5°	587.0	587.0	587.0	580.1	575.5	568.6	561.7	552.6	543.4	531.9	518.2
75°	749.7	749.7	749.7	740.6	733.7	726.8	715.3	703.9	690.1	674.1	655.7
72.5°	926.3	926.3	926.3	914.8	907.9	896.5	882.7	866.7	850.6	830.0	807.1
70°	1116.6	1116.6	1116.6	1102.8	1091.4	1079.9	1061.6	1043.2	1020.3	997.4	969.8
67.5°	1322.9	1322.9	1322.9	1306.9	1293.1	1277.1	1256.4	1233.5	1206.0	1173.9	1141.8
65°	1563.7	1563.7	1554.5	1540.7	1524.7	1501.8	1476.5	1444.5	1410.1	1368.8	1325.2
62.5°	1848.0	1848.0	1834.2	1818.2	1797.5	1767.7	1733.3	1692.1	1643.9	1591.2	1538.5
60°	2178.1	2178.1	2162.1	2141.5	2111.6	2075.0	2029.1	1976.4	1916.8	1850.3	1786.1
57.5°	2558.7	2558.7	2538.1	2510.6	2473.9	2428.1	2370.7	2304.2	2228.6	2146.0	2065.8
55°	2971.4	2971.4	2946.2	2914.1	2870.6	2815.5	2746.7	2668.8	2577.1	2483.1	2379.9
52.5°	3409.4	3409.4	3379.6	3342.9	3292.4	3228.2	3150.3	3058.6	2953.1	2843.0	2721.5
50°	3870.2	3870.2	3835.8	3794.5	3737.2	3661.6	3572.1	3466.7	3349.8	3221.4	3081.5
47.5°	4363.2	4363.2	4324.2	4276.0	4207.2	4120.1	4014.7	3893.1	3760.2	3615.7	3457.5
45°	4869.9	4869.9	4826.3	4771.3	4695.6	4597.0	4480.1	4363.2	4193.5	4026.1	3842.7
42.5°	5397.2	5397.2	5346.8	5284.9	5197.7	5090.0	4957.0	4805.7	4638.3	4450.3	4250.8
40°	5945.2	5945.2	5887.9	5816.8	5720.5	5596.7	5447.6	5278.0	5090.0	4881.3	4661.2
37.5°	6504.6	6504.6	6440.4	6362.5	6254.7	6117.1	5949.8	5761.8	5550.8	5319.2	5076.2
35°	7068.6	7068.6	6997.6	6912.7	6793.5	6642.2	6461.1	6252.4	6018.5	5766.3	5493.5
32.5°	7644.1	7644.1	7566.2	7469.9	7334.6	7167.2	6967.8	6740.8	6504.6	6211.1	5913.1
30°	8212.7	8212.7	8127.9	8022.4	7878.0	7694.6	7476.8	7226.8	6949.4	6649.1	6328.1
27.5°	8772.2	8749.2	8678.2	8565.8	8407.6	8212.7	7976.6	7706.0	7405.7	7075.5	6731.6
25°	9322.4	9297.2	9219.3	9095.5	8925.8	8712.6	8458.1	8169.2	7845.9	7497.4	7121.4
22.5°	9849.8	9822.3	9739.7	9606.7	9425.6	9194.0	8921.2	8611.7	8267.8	7894.0	7497.4
20°	10338.1	10308.3	10223.5	10083.6	9895.6	9650.3	9361.4	9029.0	8662.1	8267.8	7845.9
17.5°	10778.4	10748.5	10659.1	10514.7	10338.1	10065.3	9767.2	9416.4	9029.0	8611.7	8169.2
15°	11165.8	11133.7	11042.0	10897.6	10695.8	10439.0	10124.9	9767.2	9361.4	8921.2	8458.1
12.5°	11496.0	11463.9	11369.9	11225.4	11016.8	10760.0	10439.0	10065.3	9650.3	9194.0	8712.6
10°	11757.4	11725.3	11635.9	11498.3	11282.8	11016.8	10695.8	10338.1	9895.6	9425.6	8925.8
7.5°	11945.4	11915.6	11833.0	11695.5	11498.3	11225.4	10897.6	10514.7	10083.6	9606.7	9095.5
5°	12087.5	12053.1	11970.6	11833.0	11635.9	11369.9	11042.0	10659.1	10223.5	9739.7	9219.3
2.5°	12186.1	12144.9	12053.1	11915.6	11725.3	11463.9	11133.7	10748.5	10308.3	9822.3	9297.2
0°	12213.6	12186.1	12087.5	11945.4	11757.4	11496.0	11165.8	10778.4	10338.1	9849.8	9322.4

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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°	82.5	82.5	80.2	78.0	75.7	71.1	68.8	66.5	64.2	59.6	57.3
85°	174.3	169.7	165.1	160.5	153.6	149.0	142.2	137.6	130.7	123.8	116.9
82.5°	275.1	268.3	259.1	252.2	243.0	231.6	222.4	210.9	199.5	190.3	178.8
80°	385.2	373.7	362.3	350.8	337.0	323.3	309.5	295.8	279.7	263.7	247.6
77.5°	504.4	488.4	472.3	454.0	437.9	419.6	401.2	382.9	362.3	341.6	321.0
75°	637.4	616.8	593.8	570.9	550.3	525.0	499.8	474.6	447.1	421.9	394.4
72.5°	781.8	756.6	729.1	701.6	671.8	639.7	607.6	573.2	541.1	509.0	474.6
70°	937.7	907.9	873.5	839.2	802.5	763.5	724.5	683.2	642.0	600.7	559.4
67.5°	1105.1	1068.4	1027.2	985.9	940.0	894.2	848.3	800.2	749.7	699.3	651.1
65°	1284.0	1238.1	1190.0	1137.2	1084.5	1031.8	976.7	919.4	862.1	802.5	749.7
62.5°	1483.4	1426.1	1364.2	1300.0	1240.4	1176.2	1116.6	1045.5	976.7	910.2	843.7
60°	1715.0	1639.3	1563.7	1483.4	1407.8	1325.2	1251.9	1173.9	1095.9	1020.3	942.3
57.5°	1974.1	1877.8	1786.1	1689.8	1588.9	1497.2	1403.2	1309.2	1222.1	1132.6	1047.8
55°	2267.6	2150.6	2036.0	1916.8	1799.8	1685.2	1566.0	1460.5	1352.7	1251.9	1153.3
52.5°	2588.5	2455.6	2313.4	2178.1	2029.1	1887.0	1754.0	1621.0	1494.9	1373.4	1261.0
50°	2932.5	2776.6	2613.8	2448.7	2279.0	2111.6	1951.2	1795.2	1648.5	1506.4	1373.4
47.5°	3290.1	3113.6	2927.9	2739.9	2558.7	2354.7	2162.1	1985.5	1809.0	1648.5	1494.9
45°	3657.0	3457.5	3253.5	3040.2	2827.0	2606.9	2393.7	2178.1	1985.5	1795.2	1621.0
42.5°	4035.3	3810.6	3583.6	3347.5	3111.3	2870.6	2629.8	2393.7	2162.1	1951.2	1754.0
40°	4425.1	4177.4	3918.4	3661.6	3409.4	3134.2	2870.6	2606.9	2354.7	2111.6	1887.0
37.5°	4814.8	4544.3	4264.6	3975.7	3686.8	3409.4	3111.3	2827.0	2558.7	2279.0	2029.1
35°	5206.9	4908.8	4606.2	4292.1	3975.7	3661.6	3347.5	3040.2	2739.9	2448.7	2178.1
32.5°	5601.3	5275.7	4940.9	4606.2	4264.6	3918.4	3583.6	3253.5	2927.9	2613.8	2313.4
30°	5988.7	5635.7	5275.7	4908.8	4544.3	4177.4	3810.6	3457.5	3113.6	2776.6	2455.6
27.5°	6367.0	5988.7	5601.3	5206.9	4814.8	4425.1	4035.3	3657.0	3290.1	2932.5	2588.5
25°	6731.6	6328.1	5913.1	5493.5	5076.2	4661.2	4250.8	3842.7	3457.5	3081.5	2721.5
22.5°	7075.5	6649.1	6211.1	5766.3	5319.2	4881.3	4450.3	4026.1	3615.7	3221.4	2843.0
20°	7405.7	6949.4	6504.6	6018.5	5550.8	5090.0	4638.3	4193.5	3760.2	3349.8	2953.1
17.5°	7706.0	7226.8	6740.8	6252.4	5761.8	5278.0	4805.7	4363.2	3893.1	3466.7	3058.6
15°	7976.6	7476.8	6967.8	6461.1	5949.8	5447.6	4957.0	4480.1	4014.7	3572.1	3150.3
12.5°	8212.7	7694.6	7167.2	6642.2	6117.1	5596.7	5090.0	4597.0	4120.1	3661.6	3228.2
10°	8407.6	7878.0	7334.6	6793.5	6254.7	5720.5	5197.7	4695.6	4207.2	3737.2	3292.4
7.5°	8565.8	8022.4	7469.9	6912.7	6362.5	5816.8	5284.9	4771.3	4276.0	3794.5	3342.9
5°	8678.2	8127.9	7566.2	6997.6	6440.4	5887.9	5346.8	4826.3	4324.2	3835.8	3379.6
2.5°	8749.2	8212.7	7644.1	7068.6	6504.6	5945.2	5397.2	4869.9	4363.2	3870.2	3409.4
0°	8772.2	8212.7	7644.1	7068.6	6504.6	5945.2	5397.2	4869.9	4363.2	3870.2	3409.4

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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°	55.0	50.4	45.9	43.6	39.0	36.7	32.1	27.5	25.2	20.6	16.0
85°	110.1	100.9	94.0	87.1	80.2	71.1	64.2	57.3	48.1	41.3	32.1
82.5°	167.4	155.9	144.4	133.0	121.5	110.1	96.3	84.8	73.4	61.9	48.1
80°	231.6	213.2	197.2	181.1	165.1	149.0	130.7	114.6	96.3	80.2	64.2
77.5°	298.1	277.4	254.5	231.6	208.6	188.0	165.1	144.4	123.8	100.9	80.2
75°	369.1	341.6	316.4	286.6	259.1	229.3	201.8	174.3	149.0	123.8	96.3
72.5°	442.5	408.1	373.7	341.6	307.2	272.8	240.7	206.4	174.3	144.4	114.6
70°	518.2	476.9	435.6	396.7	357.7	316.4	279.7	240.7	201.8	165.1	130.7
67.5°	598.4	550.3	502.1	451.7	408.1	362.3	316.4	272.8	229.3	188.0	149.0
65°	685.5	628.2	568.6	515.9	458.6	408.1	357.7	307.2	259.1	208.6	165.1
62.5°	775.0	708.5	642.0	575.5	515.9	451.7	396.7	341.6	286.6	231.6	181.1
60°	866.7	791.0	715.3	642.0	568.6	502.1	435.6	373.7	316.4	254.5	197.2
57.5°	960.7	875.8	791.0	708.5	628.2	550.3	476.9	408.1	341.6	277.4	213.2
55°	1057.0	960.7	866.7	775.0	685.5	598.4	518.2	442.5	369.1	298.1	231.6
52.5°	1153.3	1047.8	942.3	843.7	749.7	651.1	559.4	474.6	394.4	321.0	247.6
50°	1251.9	1132.6	1020.3	910.2	802.5	699.3	600.7	509.0	421.9	341.6	263.7
47.5°	1352.7	1222.1	1095.9	976.7	862.1	749.7	642.0	541.1	447.1	362.3	279.7
45°	1460.5	1309.2	1173.9	1045.5	919.4	800.2	683.2	573.2	474.6	382.9	295.8
42.5°	1566.0	1403.2	1251.9	1116.6	976.7	848.3	724.5	607.6	499.8	401.2	309.5
40°	1685.2	1497.2	1325.2	1176.2	1031.8	894.2	763.5	639.7	525.0	419.6	323.3
37.5°	1799.8	1588.9	1407.8	1240.4	1084.5	940.0	802.5	671.8	550.3	437.9	337.0
35°	1916.8	1689.8	1483.4	1300.0	1137.2	985.9	839.2	701.6	570.9	454.0	350.8
32.5°	2036.0	1786.1	1563.7	1364.2	1190.0	1027.2	873.5	729.1	593.8	472.3	362.3
30°	2150.6	1877.8	1639.3	1426.1	1238.1	1068.4	907.9	756.6	616.8	488.4	373.7
27.5°	2267.6	1974.1	1715.0	1483.4	1284.0	1105.1	937.7	781.8	637.4	504.4	385.2
25°	2379.9	2065.8	1786.1	1538.5	1325.2	1141.8	969.8	807.1	655.7	518.2	394.4
22.5°	2483.1	2146.0	1850.3	1591.2	1368.8	1173.9	997.4	830.0	674.1	531.9	403.5
20°	2577.1	2228.6	1916.8	1643.9	1410.1	1206.0	1020.3	850.6	690.1	543.4	412.7
17.5°	2668.8	2304.2	1976.4	1692.1	1444.5	1233.5	1043.2	866.7	703.9	552.6	419.6
15°	2746.7	2370.7	2029.1	1733.3	1476.5	1256.4	1061.6	882.7	715.3	561.7	424.2
12.5°	2815.5	2428.1	2075.0	1767.7	1501.8	1277.1	1079.9	896.5	726.8	568.6	431.0
10°	2870.6	2473.9	2111.6	1797.5	1524.7	1293.1	1091.4	907.9	733.7	575.5	435.6
7.5°	2914.1	2510.6	2141.5	1818.2	1540.7	1306.9	1102.8	914.8	740.6	580.1	442.5
5°	2946.2	2538.1	2162.1	1834.2	1554.5	1322.9	1116.6	926.3	749.7	587.0	442.5
2.5°	2971.4	2558.7	2178.1	1848.0	1563.7	1322.9	1116.6	926.3	749.7	587.0	442.5
0°	2971.4	2558.7	2178.1	1848.0	1563.7	1322.9	1116.6	926.3	749.7	587.0	442.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.5	9.2	4.6	0.0
85°	25.2	16.0	9.2	0.0
82.5°	36.7	25.2	11.5	0.0
80°	48.1	32.1	16.0	0.0
77.5°	61.9	41.3	20.6	0.0
75°	73.4	48.1	25.2	0.0
72.5°	84.8	57.3	27.5	0.0
70°	96.3	64.2	32.1	0.0
67.5°	110.1	71.1	36.7	0.0
65°	121.5	80.2	39.0	0.0
62.5°	133.0	87.1	43.6	0.0
60°	144.4	94.0	45.9	0.0
57.5°	155.9	100.9	50.4	0.0
55°	167.4	110.1	55.0	0.0
52.5°	178.8	116.9	57.3	0.0
50°	190.3	123.8	59.6	0.0
47.5°	199.5	130.7	64.2	0.0
45°	210.9	137.6	66.5	0.0
42.5°	222.4	142.2	68.8	0.0
40°	231.6	149.0	71.1	0.0
37.5°	243.0	153.6	75.7	0.0
35°	252.2	160.5	78.0	0.0
32.5°	259.1	165.1	80.2	0.0
30°	268.3	169.7	82.5	0.0
27.5°	275.1	174.3	82.5	0.0
25°	282.0	178.8	84.8	0.0
22.5°	288.9	181.1	87.1	0.0
20°	295.8	185.7	89.4	0.0
17.5°	300.4	188.0	89.4	0.0
15°	304.9	190.3	94.0	0.0
12.5°	307.2	192.6	94.0	0.0
10°	311.8	197.2	94.0	0.0
7.5°	316.4	197.2	94.0	0.0
5°	316.4	197.2	94.0	0.0
2.5°	316.4	197.2	94.0	0.0
0°	316.4	197.2	94.0	0.0

(END OF REPORT)