

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: P623876

Luminaire Tested: **IFLD-S-SA3C-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623876
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	20024.9 lumens	Max Intensity:	11121.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	124.5 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:	8664.6 lumens	Field Lumens:	14188 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

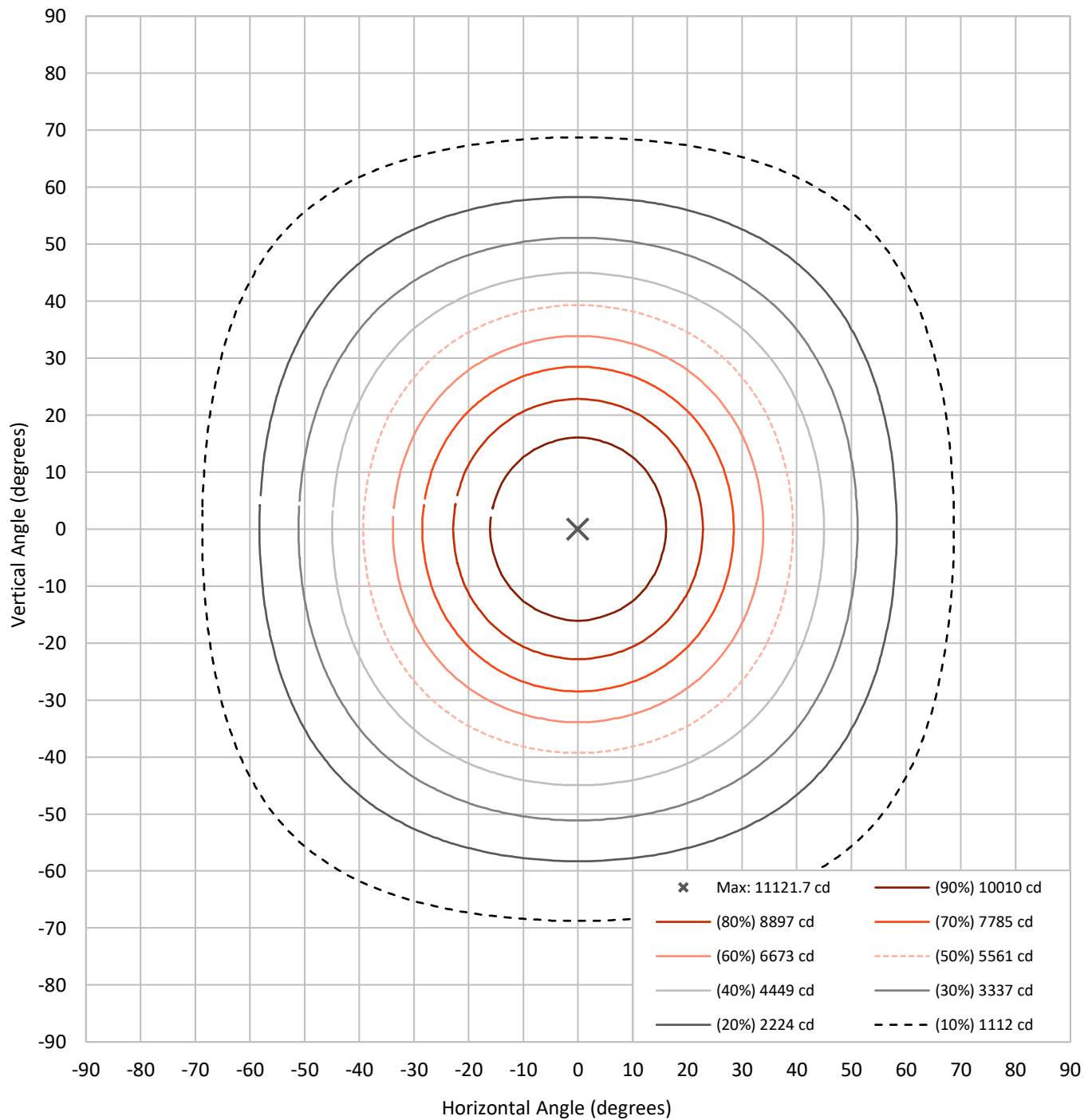
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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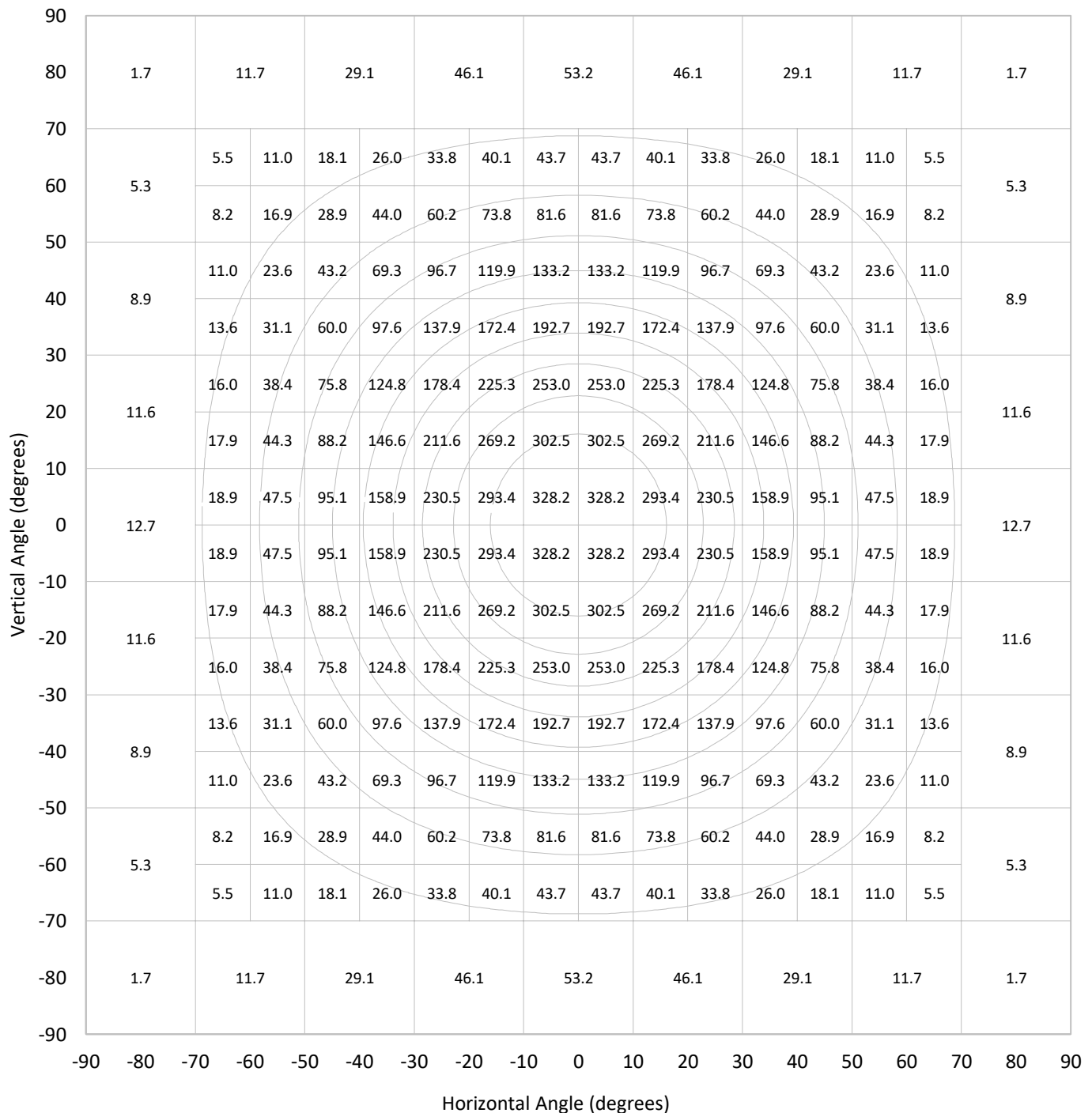
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Iso-Candela Plot



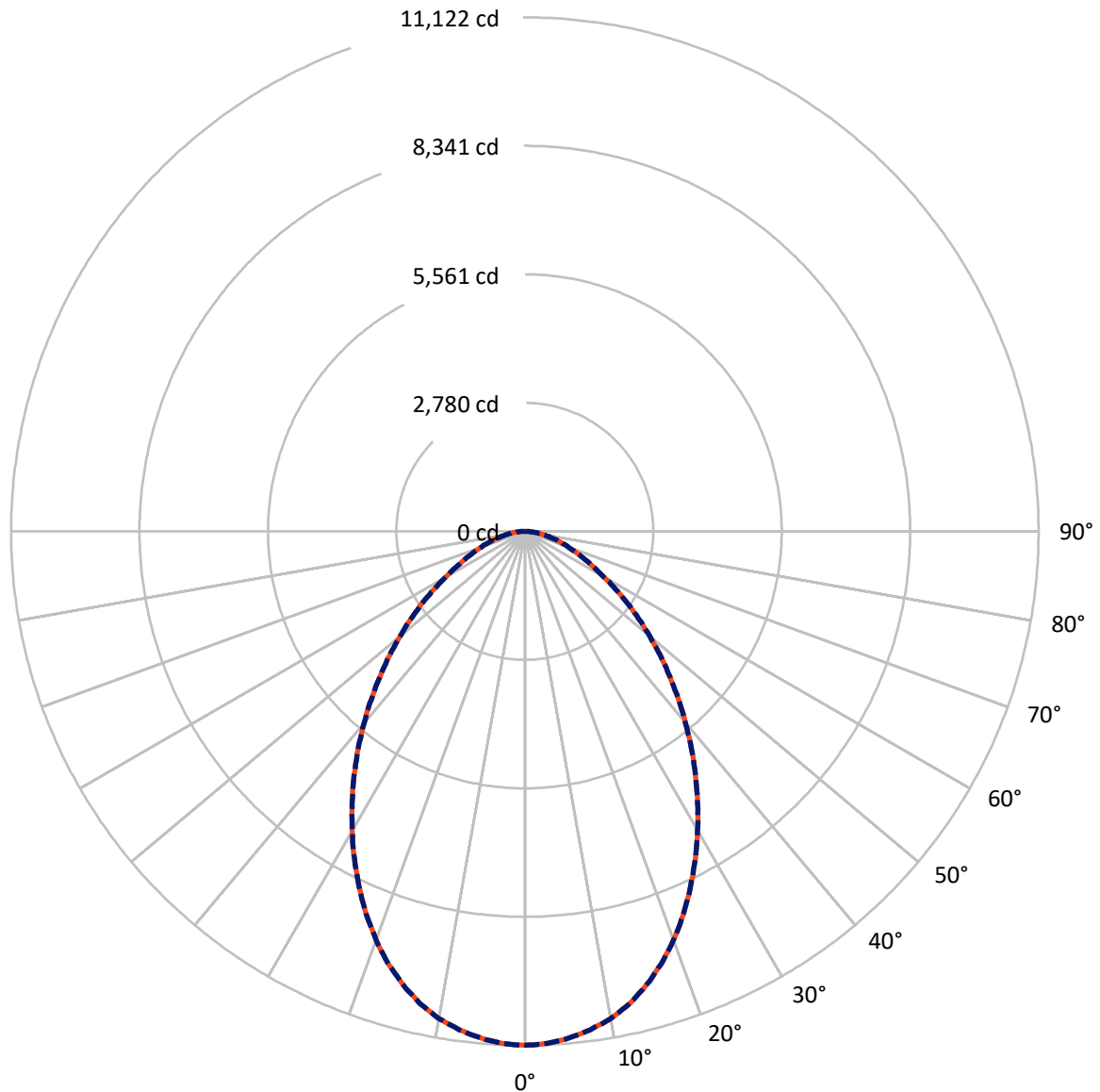
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Lumen Table



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Luminous Intensity Polar Plot

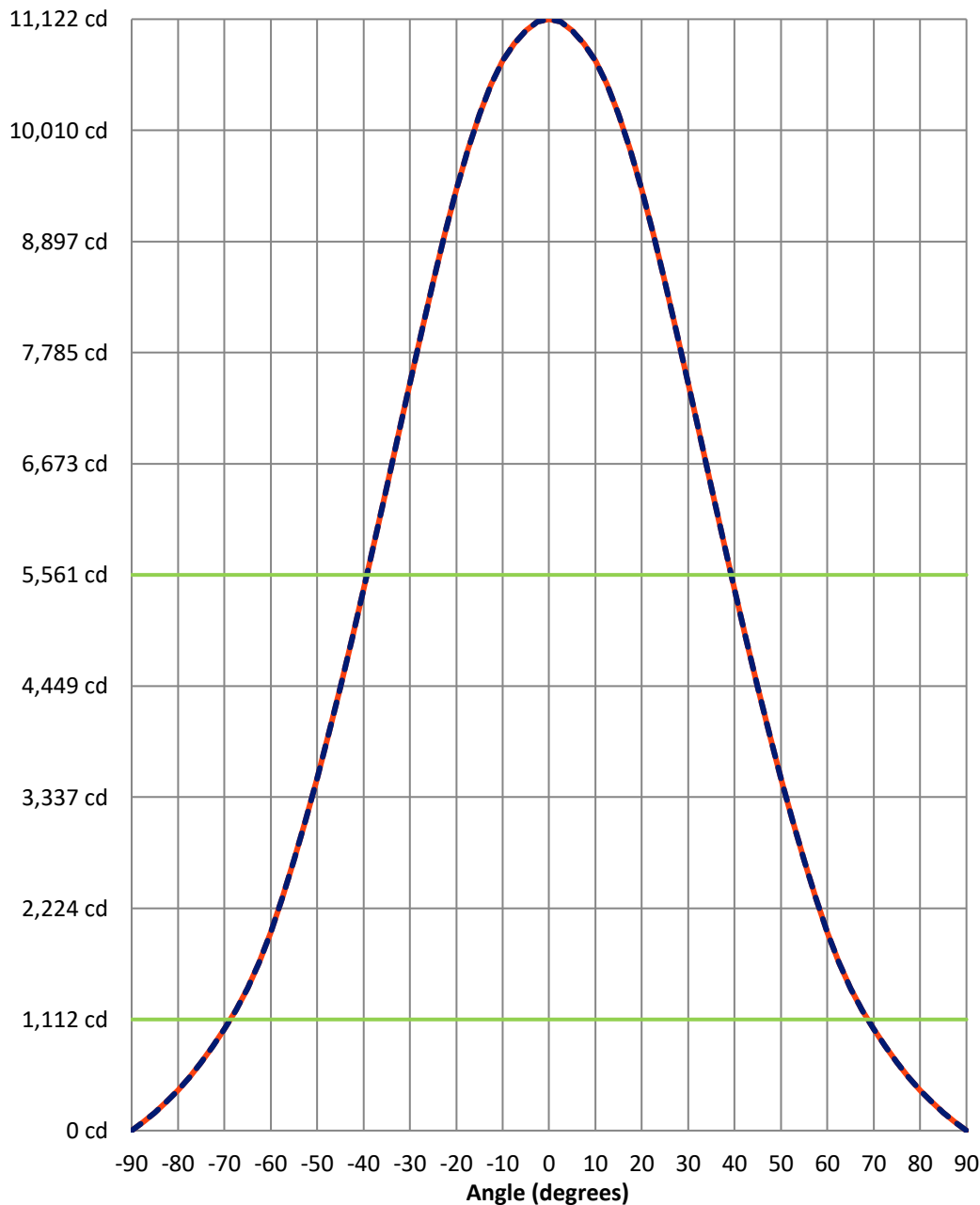


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 8664.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 14188
Efficiency: 70.9%

Spill:

Lumens: 5837
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°	85.6	85.6	85.6	85.6	85.6	85.6	85.6	81.4	81.4	79.3	77.2
85°	179.6	179.6	179.6	179.6	179.6	175.4	173.3	171.2	169.1	164.9	162.8
82.5°	288.1	288.1	288.1	288.1	283.9	279.8	277.7	273.5	269.3	263.1	256.8
80°	402.9	402.9	402.9	402.9	396.7	392.5	386.2	382.1	375.8	367.5	359.1
77.5°	534.5	534.5	534.5	528.2	524.0	517.8	511.5	503.2	494.8	484.4	471.8
75°	682.7	682.7	682.7	674.4	668.1	661.8	651.4	641.0	628.4	613.8	597.1
72.5°	843.5	843.5	843.5	833.0	826.8	816.3	803.8	789.2	774.6	755.8	734.9
70°	1016.8	1016.8	1016.8	1004.2	993.8	983.4	966.7	950.0	929.1	908.2	883.1
67.5°	1204.7	1204.7	1204.7	1190.0	1177.5	1162.9	1144.1	1123.2	1098.2	1069.0	1039.7
65°	1423.9	1423.9	1415.5	1403.0	1388.4	1367.5	1344.5	1315.3	1284.0	1246.4	1206.8
62.5°	1682.8	1682.8	1670.2	1655.6	1636.8	1609.7	1578.4	1540.8	1497.0	1448.9	1400.9
60°	1983.4	1983.4	1968.8	1950.0	1922.9	1889.5	1847.7	1799.7	1745.4	1684.9	1626.4
57.5°	2330.0	2330.0	2311.2	2286.1	2252.7	2211.0	2158.8	2098.2	2029.3	1954.2	1881.1
55°	2705.8	2705.8	2682.8	2653.6	2613.9	2563.8	2501.2	2430.2	2346.7	2261.1	2167.1
52.5°	3104.6	3104.6	3077.4	3044.0	2998.1	2939.6	2868.6	2785.1	2689.1	2588.9	2478.2
50°	3524.2	3524.2	3492.9	3455.3	3403.1	3334.2	3252.8	3156.8	3050.3	2933.4	2806.0
47.5°	3973.1	3973.1	3937.6	3893.8	3831.1	3751.8	3655.7	3545.1	3424.0	3292.5	3148.4
45°	4434.5	4434.5	4394.8	4344.7	4275.8	4186.0	4079.6	3973.1	3818.6	3666.2	3499.2
42.5°	4914.7	4914.7	4868.8	4812.4	4733.1	4634.9	4513.8	4376.0	4223.6	4052.4	3870.8
40°	5413.7	5413.7	5361.5	5296.8	5209.1	5096.3	4960.6	4806.1	4634.9	4444.9	4244.5
37.5°	5923.1	5923.1	5864.6	5793.7	5695.5	5570.3	5417.9	5246.7	5054.6	4843.7	4622.4
35°	6436.7	6436.7	6372.0	6294.7	6186.2	6048.4	5883.4	5693.4	5480.5	5250.8	5002.4
32.5°	6960.7	6960.7	6889.8	6802.1	6678.9	6526.5	6344.8	6138.1	5923.1	5655.9	5384.4
30°	7478.5	7478.5	7401.3	7305.2	7173.7	7006.7	6808.3	6580.8	6328.1	6054.6	5762.3
27.5°	7987.9	7967.1	7902.3	7800.0	7656.0	7478.5	7263.5	7017.1	6743.6	6443.0	6129.8
25°	8489.0	8466.0	8395.1	8282.3	8127.8	7933.7	7701.9	7438.8	7144.5	6827.1	6484.7
22.5°	8969.2	8944.2	8869.0	8747.9	8583.0	8372.1	8123.6	7841.8	7528.6	7188.3	6827.1
20°	9413.9	9386.8	9309.5	9182.2	9011.0	8787.6	8524.5	8221.8	7887.7	7528.6	7144.5
17.5°	9814.8	9787.6	9706.2	9574.7	9413.9	9165.5	8894.0	8574.6	8221.8	7841.8	7438.8
15°	10167.6	10138.4	10054.9	9923.3	9739.6	9505.8	9219.7	8894.0	8524.5	8123.6	7701.9
12.5°	10468.3	10439.0	10353.4	10221.9	10031.9	9798.1	9505.8	9165.5	8787.6	8372.1	7933.7
10°	10706.3	10677.0	10595.6	10470.3	10274.1	10031.9	9739.6	9413.9	9011.0	8583.0	8127.8
7.5°	10877.5	10850.3	10775.2	10649.9	10470.3	10221.9	9923.3	9574.7	9182.2	8747.9	8282.3
5°	11006.9	10975.6	10900.4	10775.2	10595.6	10353.4	10054.9	9706.2	9309.5	8869.0	8395.1
2.5°	11096.7	11059.1	10975.6	10850.3	10677.0	10439.0	10138.4	9787.6	9386.8	8944.2	8466.0
0°	11121.7	11096.7	11006.9	10877.5	10706.3	10468.3	10167.6	9814.8	9413.9	8969.2	8489.0

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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°	75.2	75.2	73.1	71.0	68.9	64.7	62.6	60.5	58.5	54.3	52.2
85°	158.7	154.5	150.3	146.1	139.9	135.7	129.4	125.3	119.0	112.7	106.5
82.5°	250.5	244.3	235.9	229.7	221.3	210.9	202.5	192.1	181.6	173.3	162.8
80°	350.8	340.3	329.9	319.4	306.9	294.4	281.9	269.3	254.7	240.1	225.5
77.5°	459.3	444.7	430.1	413.4	398.8	382.1	365.4	348.7	329.9	311.1	292.3
75°	580.4	561.6	540.7	519.9	501.1	478.1	455.1	432.2	407.1	384.2	359.1
72.5°	711.9	689.0	663.9	638.9	611.7	582.5	553.3	522.0	492.7	463.5	432.2
70°	853.9	826.8	795.5	764.1	730.7	695.2	659.7	622.2	584.6	547.0	509.4
67.5°	1006.3	972.9	935.3	897.8	856.0	814.2	772.5	728.6	682.7	636.8	592.9
65°	1169.2	1127.4	1083.6	1035.6	987.5	939.5	889.4	837.2	785.0	730.7	682.7
62.5°	1350.8	1298.6	1242.2	1183.8	1129.5	1071.0	1016.8	952.0	889.4	828.9	768.3
60°	1561.7	1492.8	1423.9	1350.8	1281.9	1206.8	1139.9	1069.0	998.0	929.1	858.1
57.5°	1797.6	1709.9	1626.4	1538.7	1446.8	1363.3	1277.7	1192.1	1112.8	1031.4	954.1
55°	2064.8	1958.4	1854.0	1745.4	1638.9	1534.5	1426.0	1329.9	1231.8	1139.9	1050.2
52.5°	2357.1	2236.0	2106.6	1983.4	1847.7	1718.3	1597.2	1476.1	1361.2	1250.6	1148.3
50°	2670.3	2528.3	2380.1	2229.8	2075.3	1922.9	1776.7	1634.8	1501.1	1371.7	1250.6
47.5°	2996.0	2835.2	2666.1	2494.9	2330.0	2144.2	1968.8	1808.0	1647.3	1501.1	1361.2
45°	3330.0	3148.4	2962.6	2768.4	2574.3	2373.8	2179.7	1983.4	1808.0	1634.8	1476.1
42.5°	3674.5	3469.9	3263.2	3048.2	2833.2	2613.9	2394.7	2179.7	1968.8	1776.7	1597.2
40°	4029.5	3804.0	3568.1	3334.2	3104.6	2854.0	2613.9	2373.8	2144.2	1922.9	1718.3
37.5°	4384.4	4138.0	3883.3	3620.3	3357.2	3104.6	2833.2	2574.3	2330.0	2075.3	1847.7
35°	4741.4	4470.0	4194.4	3908.4	3620.3	3334.2	3048.2	2768.4	2494.9	2229.8	1983.4
32.5°	5100.5	4804.0	4499.2	4194.4	3883.3	3568.1	3263.2	2962.6	2666.1	2380.1	2106.6
30°	5453.3	5131.8	4804.0	4470.0	4138.0	3804.0	3469.9	3148.4	2835.2	2528.3	2236.0
27.5°	5797.8	5453.3	5100.5	4741.4	4384.4	4029.5	3674.5	3330.0	2996.0	2670.3	2357.1
25°	6129.8	5762.3	5384.4	5002.4	4622.4	4244.5	3870.8	3499.2	3148.4	2806.0	2478.2
22.5°	6443.0	6054.6	5655.9	5250.8	4843.7	4444.9	4052.4	3666.2	3292.5	2933.4	2588.9
20°	6743.6	6328.1	5923.1	5480.5	5054.6	4634.9	4223.6	3818.6	3424.0	3050.3	2689.1
17.5°	7017.1	6580.8	6138.1	5693.4	5246.7	4806.1	4376.0	3973.1	3545.1	3156.8	2785.1
15°	7263.5	6808.3	6344.8	5883.4	5417.9	4960.6	4513.8	4079.6	3655.7	3252.8	2868.6
12.5°	7478.5	7006.7	6526.5	6048.4	5570.3	5096.3	4634.9	4186.0	3751.8	3334.2	2939.6
10°	7656.0	7173.7	6678.9	6186.2	5695.5	5209.1	4733.1	4275.8	3831.1	3403.1	2998.1
7.5°	7800.0	7305.2	6802.1	6294.7	5793.7	5296.8	4812.4	4344.7	3893.8	3455.3	3044.0
5°	7902.3	7401.3	6889.8	6372.0	5864.6	5361.5	4868.8	4394.8	3937.6	3492.9	3077.4
2.5°	7967.1	7478.5	6960.7	6436.7	5923.1	5413.7	4914.7	4434.5	3973.1	3524.2	3104.6
0°	7987.9	7478.5	6960.7	6436.7	5923.1	5413.7	4914.7	4434.5	3973.1	3524.2	3104.6

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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°	50.1	45.9	41.8	39.7	35.5	33.4	29.2	25.1	23.0	18.8	14.6
85°	100.2	91.9	85.6	79.3	73.1	64.7	58.5	52.2	43.8	37.6	29.2
82.5°	152.4	142.0	131.5	121.1	110.7	100.2	87.7	77.2	66.8	56.4	43.8
80°	210.9	194.2	179.6	164.9	150.3	135.7	119.0	104.4	87.7	73.1	58.5
77.5°	271.4	252.6	231.7	210.9	190.0	171.2	150.3	131.5	112.7	91.9	73.1
75°	336.1	311.1	288.1	261.0	235.9	208.8	183.7	158.7	135.7	112.7	87.7
72.5°	402.9	371.6	340.3	311.1	279.8	248.4	219.2	187.9	158.7	131.5	104.4
70°	471.8	434.3	396.7	361.2	325.7	288.1	254.7	219.2	183.7	150.3	119.0
67.5°	544.9	501.1	457.2	411.3	371.6	329.9	288.1	248.4	208.8	171.2	135.7
65°	624.3	572.1	517.8	469.8	417.6	371.6	325.7	279.8	235.9	190.0	150.3
62.5°	705.7	645.1	584.6	524.0	469.8	411.3	361.2	311.1	261.0	210.9	164.9
60°	789.2	720.3	651.4	584.6	517.8	457.2	396.7	340.3	288.1	231.7	179.6
57.5°	874.8	797.5	720.3	645.1	572.1	501.1	434.3	371.6	311.1	252.6	194.2
55°	962.5	874.8	789.2	705.7	624.3	544.9	471.8	402.9	336.1	271.4	210.9
52.5°	1050.2	954.1	858.1	768.3	682.7	592.9	509.4	432.2	359.1	292.3	225.5
50°	1139.9	1031.4	929.1	828.9	730.7	636.8	547.0	463.5	384.2	311.1	240.1
47.5°	1231.8	1112.8	998.0	889.4	785.0	682.7	584.6	492.7	407.1	329.9	254.7
45°	1329.9	1192.1	1069.0	952.0	837.2	728.6	622.2	522.0	432.2	348.7	269.3
42.5°	1426.0	1277.7	1139.9	1016.8	889.4	772.5	659.7	553.3	455.1	365.4	281.9
40°	1534.5	1363.3	1206.8	1071.0	939.5	814.2	695.2	582.5	478.1	382.1	294.4
37.5°	1638.9	1446.8	1281.9	1129.5	987.5	856.0	730.7	611.7	501.1	398.8	306.9
35°	1745.4	1538.7	1350.8	1183.8	1035.6	897.8	764.1	638.9	519.9	413.4	319.4
32.5°	1854.0	1626.4	1423.9	1242.2	1083.6	935.3	795.5	663.9	540.7	430.1	329.9
30°	1958.4	1709.9	1492.8	1298.6	1127.4	972.9	826.8	689.0	561.6	444.7	340.3
27.5°	2064.8	1797.6	1561.7	1350.8	1169.2	1006.3	853.9	711.9	580.4	459.3	350.8
25°	2167.1	1881.1	1626.4	1400.9	1206.8	1039.7	883.1	734.9	597.1	471.8	359.1
22.5°	2261.1	1954.2	1684.9	1448.9	1246.4	1069.0	908.2	755.8	613.8	484.4	367.5
20°	2346.7	2029.3	1745.4	1497.0	1284.0	1098.2	929.1	774.6	628.4	494.8	375.8
17.5°	2430.2	2098.2	1799.7	1540.8	1315.3	1123.2	950.0	789.2	641.0	503.2	382.1
15°	2501.2	2158.8	1847.7	1578.4	1344.5	1144.1	966.7	803.8	651.4	511.5	386.2
12.5°	2563.8	2211.0	1889.5	1609.7	1367.5	1162.9	983.4	816.3	661.8	517.8	392.5
10°	2613.9	2252.7	1922.9	1636.8	1388.4	1177.5	993.8	826.8	668.1	524.0	396.7
7.5°	2653.6	2286.1	1950.0	1655.6	1403.0	1190.0	1004.2	833.0	674.4	528.2	402.9
5°	2682.8	2311.2	1968.8	1670.2	1415.5	1204.7	1016.8	843.5	682.7	534.5	402.9
2.5°	2705.8	2330.0	1983.4	1682.8	1423.9	1204.7	1016.8	843.5	682.7	534.5	402.9
0°	2705.8	2330.0	1983.4	1682.8	1423.9	1204.7	1016.8	843.5	682.7	534.5	402.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.4	8.4	4.2	0.0
85°	23.0	14.6	8.4	0.0
82.5°	33.4	23.0	10.4	0.0
80°	43.8	29.2	14.6	0.0
77.5°	56.4	37.6	18.8	0.0
75°	66.8	43.8	23.0	0.0
72.5°	77.2	52.2	25.1	0.0
70°	87.7	58.5	29.2	0.0
67.5°	100.2	64.7	33.4	0.0
65°	110.7	73.1	35.5	0.0
62.5°	121.1	79.3	39.7	0.0
60°	131.5	85.6	41.8	0.0
57.5°	142.0	91.9	45.9	0.0
55°	152.4	100.2	50.1	0.0
52.5°	162.8	106.5	52.2	0.0
50°	173.3	112.7	54.3	0.0
47.5°	181.6	119.0	58.5	0.0
45°	192.1	125.3	60.5	0.0
42.5°	202.5	129.4	62.6	0.0
40°	210.9	135.7	64.7	0.0
37.5°	221.3	139.9	68.9	0.0
35°	229.7	146.1	71.0	0.0
32.5°	235.9	150.3	73.1	0.0
30°	244.3	154.5	75.2	0.0
27.5°	250.5	158.7	75.2	0.0
25°	256.8	162.8	77.2	0.0
22.5°	263.1	164.9	79.3	0.0
20°	269.3	169.1	81.4	0.0
17.5°	273.5	171.2	81.4	0.0
15°	277.7	173.3	85.6	0.0
12.5°	279.8	175.4	85.6	0.0
10°	283.9	179.6	85.6	0.0
7.5°	288.1	179.6	85.6	0.0
5°	288.1	179.6	85.6	0.0
2.5°	288.1	179.6	85.6	0.0
0°	288.1	179.6	85.6	0.0

(END OF REPORT)