

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: P623558

Luminaire Tested: **IFLD-S-SA3D-722-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623558
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	17900.6 lumens	Max Intensity:	21875.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	97.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

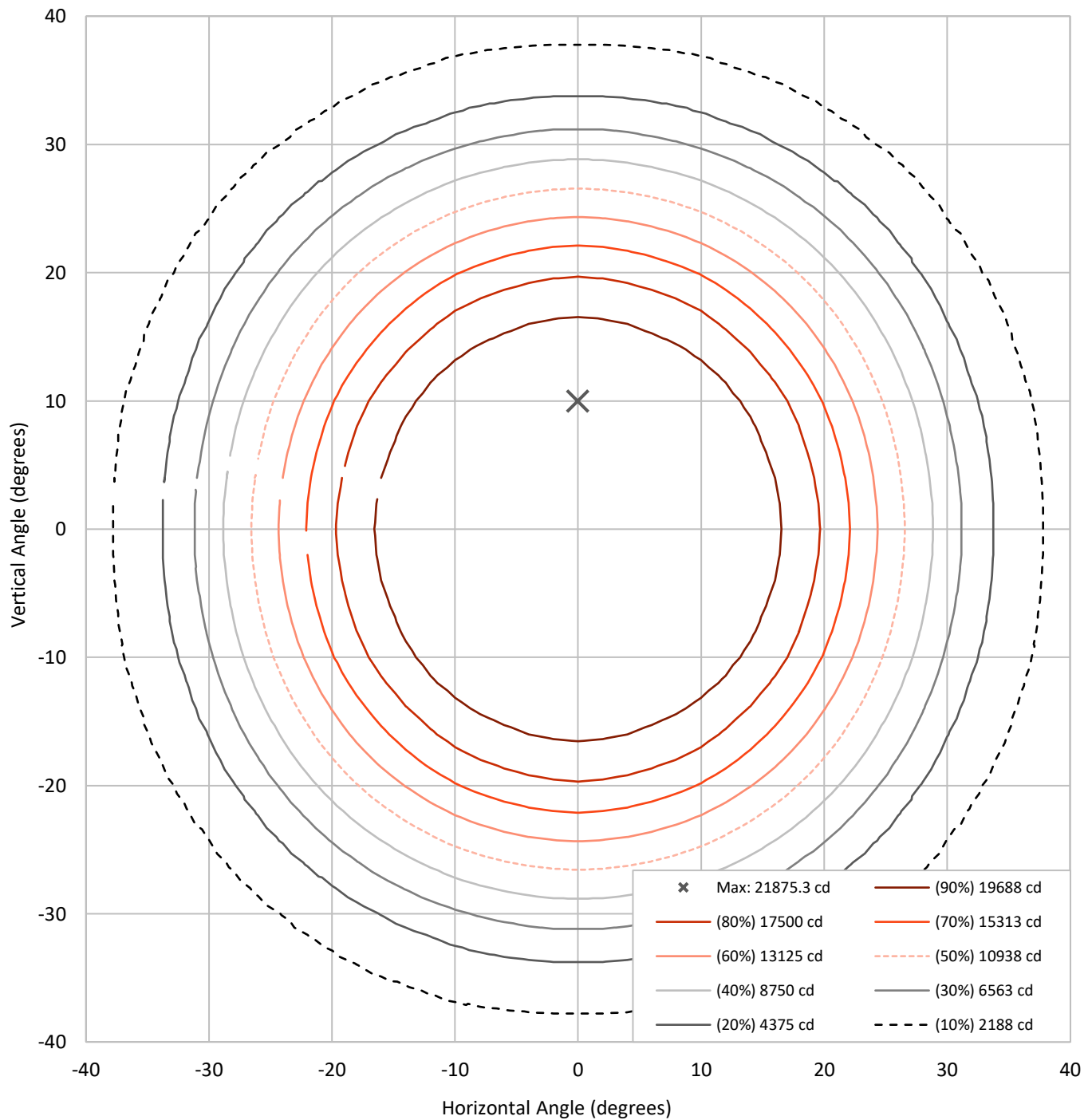
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	8897 lumens	Field Lumens:	11570.9 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 184.1
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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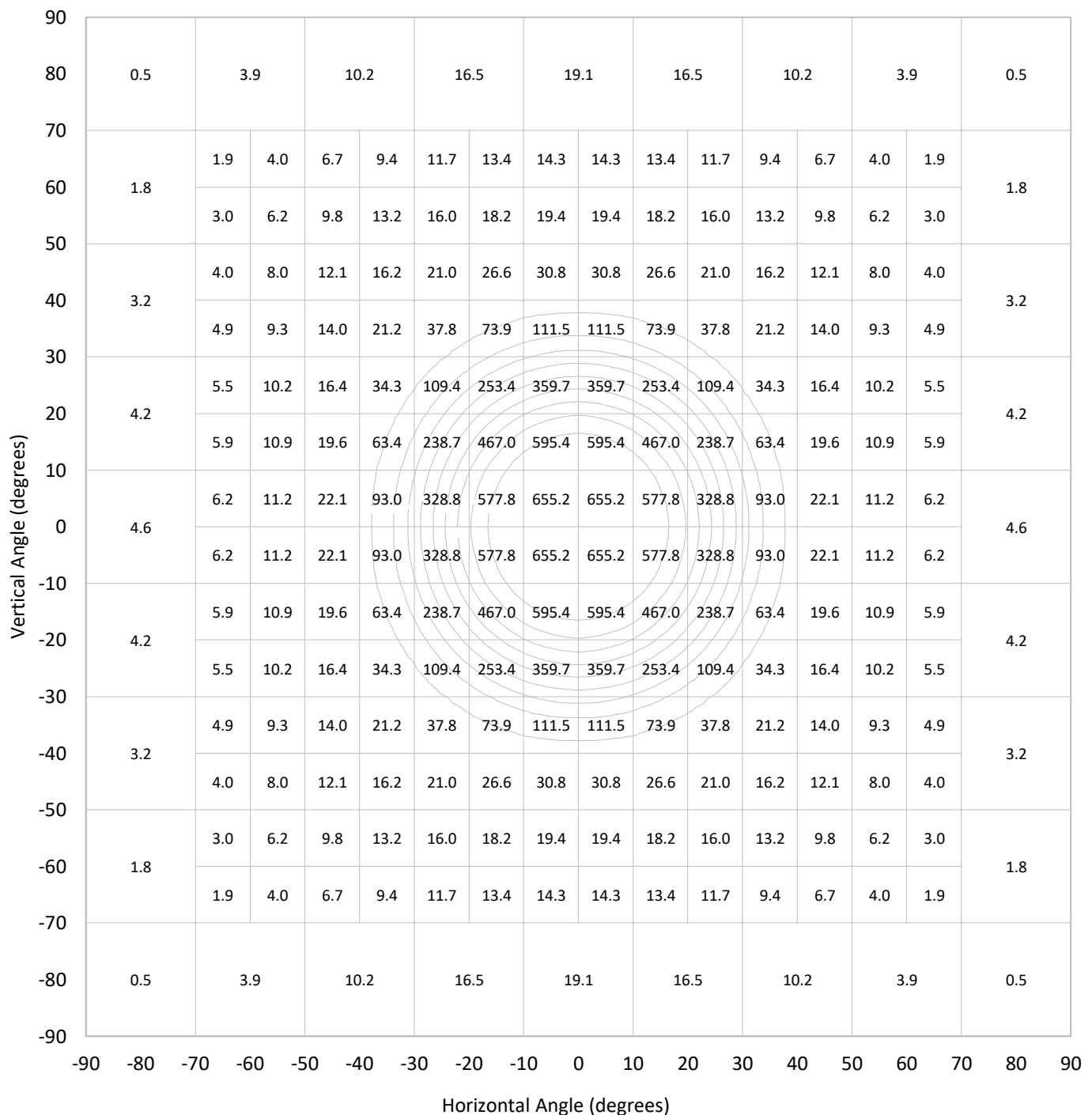
Iso-Candela Plot





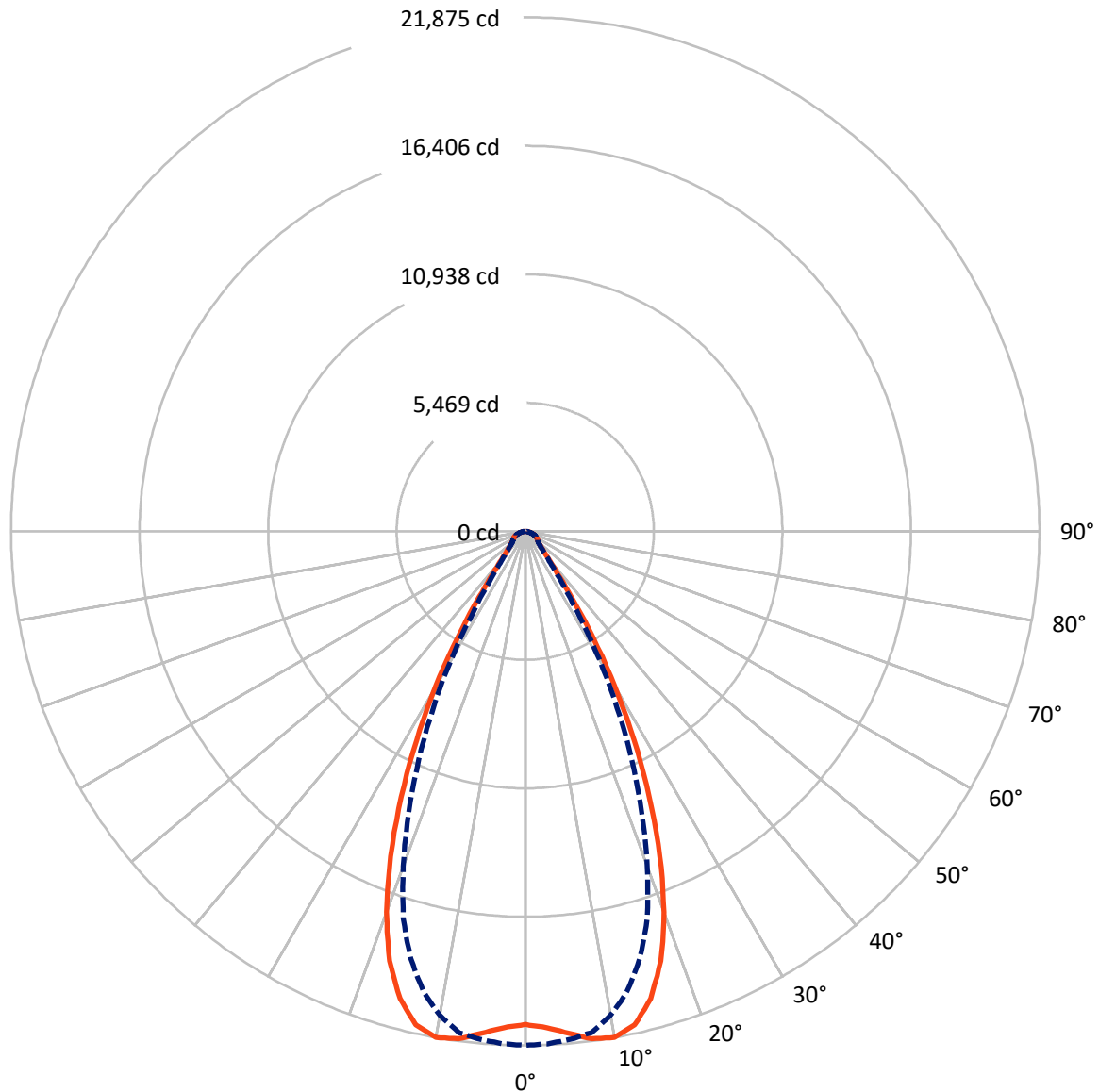
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Lumen Table



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Luminous Intensity Polar Plot

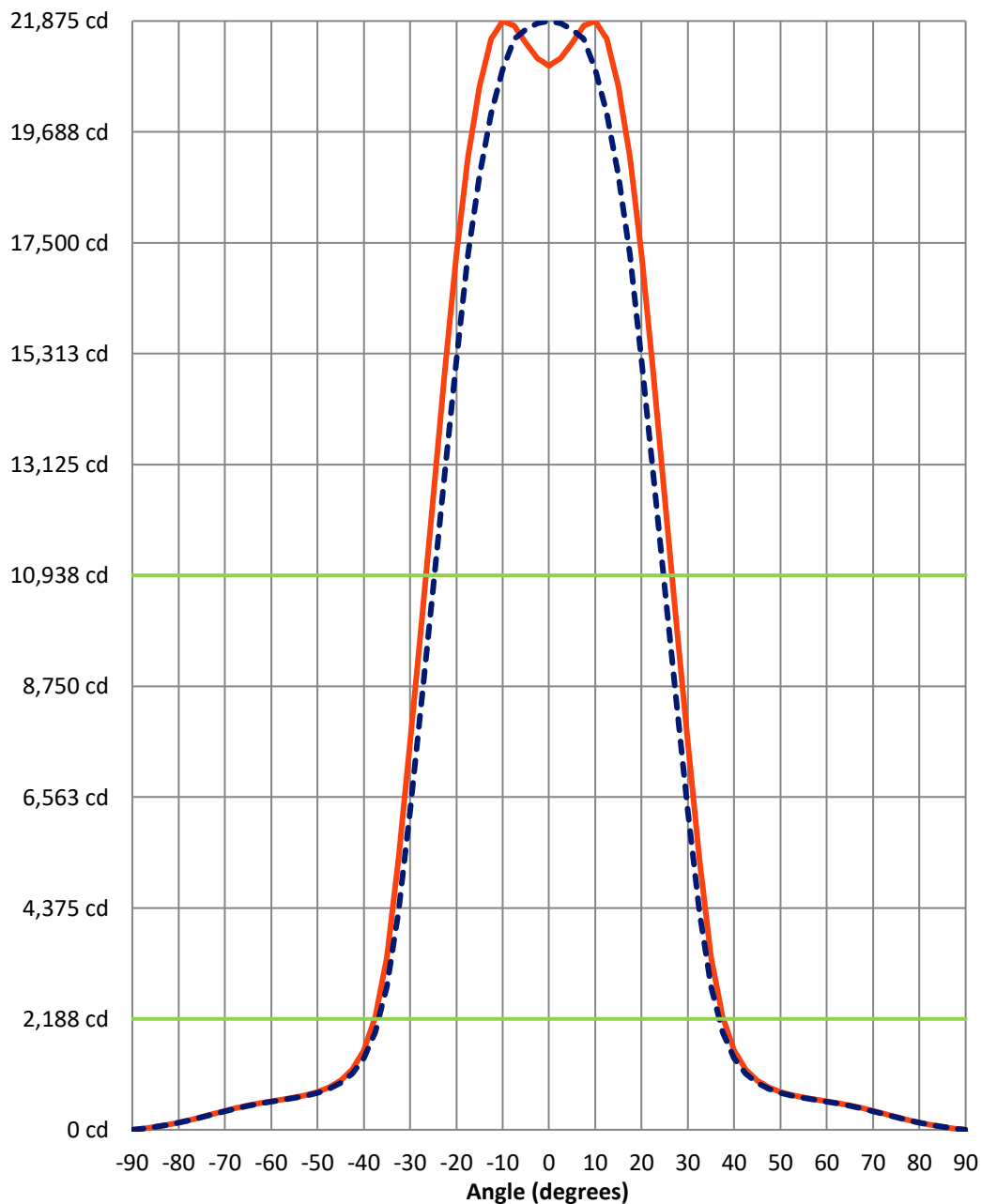


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 8897
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 11570.9
Efficiency: 64.6%

Spill:
Lumens: 6329.7
Efficiency: 35.4%

— Vertical Distribution through 0-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°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	22.3	22.3	22.3	22.3
85°	59.5	59.5	59.5	59.5	59.5	57.6	57.6	55.8	55.8	53.9	52.1
82.5°	96.7	96.7	96.7	96.7	94.8	94.8	93.0	91.1	89.3	87.4	85.5
80°	141.3	141.3	141.3	141.3	139.5	137.6	135.7	133.9	130.2	128.3	124.6
77.5°	193.4	193.4	193.4	191.5	189.7	187.8	184.1	180.4	176.7	172.9	169.2
75°	252.9	252.9	252.9	249.2	247.3	243.6	239.9	236.2	230.6	225.0	219.4
72.5°	314.3	314.3	314.3	310.5	306.8	303.1	299.4	293.8	288.2	280.8	273.3
70°	371.9	371.9	371.9	368.2	364.5	360.7	355.2	349.6	342.2	334.7	327.3
67.5°	431.4	431.4	431.4	425.8	422.1	418.4	412.8	405.4	397.9	388.6	379.3
65°	479.8	479.8	477.9	476.0	472.3	466.7	463.0	455.6	448.1	440.7	431.4
62.5°	524.4	524.4	522.5	520.7	516.9	511.4	505.8	500.2	492.8	483.5	474.2
60°	561.6	561.6	559.7	557.9	554.1	550.4	544.8	539.3	531.8	524.4	515.1
57.5°	598.8	598.8	596.9	595.0	591.3	585.7	580.2	574.6	567.2	557.9	548.6
55°	637.8	637.8	636.0	632.2	628.5	622.9	617.4	609.9	600.6	591.3	582.0
52.5°	684.3	684.3	680.6	676.9	671.3	665.7	656.4	647.1	636.0	624.8	613.6
50°	745.7	745.7	741.9	736.4	727.1	717.8	706.6	691.7	678.7	663.8	649.0
47.5°	836.8	836.8	829.3	820.0	807.0	792.2	771.7	749.4	730.8	712.2	689.9
45°	970.7	970.7	959.5	944.6	924.2	898.1	868.4	836.8	805.2	773.6	741.9
42.5°	1188.2	1188.2	1167.8	1141.7	1106.4	1061.8	1006.0	953.9	909.3	859.1	816.3
40°	1563.8	1563.8	1524.8	1476.5	1409.5	1324.0	1221.7	1139.9	1061.8	974.4	914.9
37.5°	2231.4	2231.4	2155.2	2062.2	1932.0	1768.4	1571.3	1439.3	1294.2	1156.6	1056.2
35°	3410.3	3410.3	3263.4	3083.1	2832.0	2515.9	2179.3	1930.2	1653.1	1441.1	1253.3
32.5°	5344.2	5344.2	5080.2	4754.8	4306.6	3739.5	3200.2	2726.0	2231.4	1880.0	1541.5
30°	7642.6	7642.6	7296.7	6870.9	6287.0	5550.6	4782.7	3940.3	3159.3	2532.7	2021.3
27.5°	10019.0	9920.5	9623.0	9137.6	8471.9	7642.6	6684.9	5597.1	4540.9	3436.4	2705.6
25°	12477.3	12362.0	12021.7	11463.9	10701.5	9762.4	8683.9	7467.8	6164.3	4847.7	3583.3
22.5°	14961.6	14831.5	14444.7	13814.3	12958.9	11906.4	10684.7	9332.9	7876.9	6355.8	4847.7
20°	17258.1	17120.5	16715.1	16058.7	15173.6	14018.9	12661.4	11162.6	9552.3	7876.9	6164.3
17.5°	19180.9	19048.8	18658.3	18031.7	17258.1	15980.6	14569.3	12921.7	11162.6	9332.9	7467.8
15°	20584.8	20471.4	20138.5	19612.3	18823.8	17693.2	16255.8	14569.3	12661.4	10684.7	8683.9
12.5°	21516.4	21425.3	21163.1	20754.0	20047.4	19099.0	17693.2	15980.6	14018.9	11906.4	9762.4
10°	21875.3	21830.7	21707.9	21520.1	20917.6	20047.4	18823.8	17258.1	15173.6	12958.9	10701.5
7.5°	21780.5	21795.3	21838.1	21789.7	21520.1	20754.0	19612.3	18031.7	16058.7	13814.3	11463.9
5°	21442.0	21522.0	21720.9	21838.1	21707.9	21163.1	20138.5	18658.3	16715.1	14444.7	12021.7
2.5°	21140.8	21265.4	21522.0	21795.3	21830.7	21425.3	20471.4	19048.8	17120.5	14831.5	12362.0
0°	20992.0	21140.8	21442.0	21780.5	21875.3	21516.4	20584.8	19180.9	17258.1	14961.6	12477.3

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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°	22.3	20.5	20.5	20.5	18.6	18.6	18.6	16.7	16.7	14.9	14.9
85°	52.1	50.2	48.3	46.5	44.6	42.8	40.9	39.0	37.2	33.5	31.6
82.5°	83.7	81.8	80.0	76.2	74.4	70.7	66.9	63.2	59.5	57.6	53.9
80°	120.9	117.1	113.4	109.7	104.1	98.6	94.8	89.3	85.5	80.0	76.2
77.5°	163.6	158.1	152.5	145.0	139.5	133.9	126.4	120.9	113.4	106.0	98.6
75°	212.0	204.5	195.2	187.8	180.4	171.1	161.8	152.5	143.2	133.9	124.6
72.5°	264.1	254.8	245.5	236.2	225.0	212.0	200.8	187.8	176.7	165.5	152.5
70°	318.0	306.8	295.7	284.5	271.5	256.6	243.6	228.7	213.8	199.0	184.1
67.5°	368.2	357.0	344.0	332.9	318.0	303.1	286.4	269.6	252.9	234.3	215.7
65°	420.2	407.2	392.4	377.5	362.6	345.9	329.1	312.4	291.9	271.5	252.9
62.5°	463.0	451.9	438.8	424.0	407.2	388.6	371.9	349.6	329.1	308.7	284.5
60°	503.9	490.9	479.8	463.0	448.1	431.4	411.0	388.6	366.3	342.2	319.8
57.5°	539.3	528.1	515.1	500.2	483.5	466.7	448.1	427.7	401.7	377.5	351.4
55°	570.9	557.9	544.8	531.8	516.9	498.3	479.8	459.3	437.0	411.0	383.1
52.5°	602.5	589.5	574.6	561.6	544.8	528.1	509.5	489.1	466.7	442.6	412.8
50°	634.1	619.2	604.3	587.6	570.9	554.1	535.5	516.9	492.8	468.6	442.6
47.5°	671.3	652.7	634.1	615.5	598.8	578.3	559.7	539.3	518.8	492.8	466.7
45°	717.8	689.9	667.6	645.3	624.8	604.3	582.0	561.6	539.3	516.9	489.1
42.5°	775.4	738.2	708.5	678.7	652.7	628.5	606.2	582.0	559.7	535.5	509.5
40°	853.5	803.3	755.0	717.8	684.3	654.5	628.5	604.3	578.3	554.1	528.1
37.5°	955.8	885.1	818.2	764.3	721.5	684.3	652.7	624.8	598.8	570.9	544.8
35°	1110.1	987.4	901.9	823.8	764.3	717.8	678.7	645.3	615.5	587.6	561.6
32.5°	1327.7	1138.0	1000.4	901.9	818.2	755.0	708.5	667.6	634.1	604.3	574.6
30°	1614.1	1351.9	1138.0	987.4	885.1	803.3	738.2	689.9	652.7	619.2	589.5
27.5°	2067.8	1614.1	1327.7	1110.1	955.8	853.5	775.4	717.8	671.3	634.1	602.5
25°	2705.6	2021.3	1541.5	1253.3	1056.2	914.9	816.3	741.9	689.9	649.0	613.6
22.5°	3436.4	2532.7	1880.0	1441.1	1156.6	974.4	859.1	773.6	712.2	663.8	624.8
20°	4540.9	3159.3	2231.4	1653.1	1294.2	1061.8	909.3	805.2	730.8	678.7	636.0
17.5°	5597.1	3940.3	2726.0	1930.2	1439.3	1139.9	953.9	836.8	749.4	691.7	647.1
15°	6684.9	4782.7	3200.2	2179.3	1571.3	1221.7	1006.0	868.4	771.7	706.6	656.4
12.5°	7642.6	5550.6	3739.5	2515.9	1768.4	1324.0	1061.8	898.1	792.2	717.8	665.7
10°	8471.9	6287.0	4306.6	2832.0	1932.0	1409.5	1106.4	924.2	807.0	727.1	671.3
7.5°	9137.6	6870.9	4754.8	3083.1	2062.2	1476.5	1141.7	944.6	820.0	736.4	676.9
5°	9623.0	7296.7	5080.2	3263.4	2155.2	1524.8	1167.8	959.5	829.3	741.9	680.6
2.5°	9920.5	7642.6	5344.2	3410.3	2231.4	1563.8	1188.2	970.7	836.8	745.7	684.3
0°	10019.0	7642.6	5344.2	3410.3	2231.4	1563.8	1188.2	970.7	836.8	745.7	684.3

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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°	13.0	13.0	11.2	11.2	9.3	9.3	7.4	7.4	5.6	5.6	3.7
85°	29.8	26.0	24.2	22.3	20.5	18.6	16.7	14.9	13.0	11.2	9.3
82.5°	50.2	46.5	40.9	37.2	33.5	29.8	24.2	22.3	18.6	14.9	13.0
80°	70.7	65.1	59.5	53.9	48.3	42.8	37.2	31.6	26.0	20.5	16.7
77.5°	91.1	83.7	78.1	70.7	63.2	55.8	48.3	40.9	33.5	26.0	20.5
75°	115.3	106.0	96.7	87.4	78.1	68.8	61.4	52.1	42.8	33.5	26.0
72.5°	141.3	128.3	117.1	106.0	93.0	83.7	72.5	63.2	52.1	40.9	31.6
70°	169.2	154.3	139.5	124.6	111.6	96.7	85.5	72.5	61.4	48.3	37.2
67.5°	197.1	180.4	163.6	145.0	128.3	113.4	96.7	83.7	68.8	55.8	42.8
65°	230.6	208.3	187.8	167.4	146.9	128.3	111.6	93.0	78.1	63.2	48.3
62.5°	262.2	238.0	213.8	189.7	167.4	145.0	124.6	106.0	87.4	70.7	53.9
60°	293.8	267.8	239.9	213.8	187.8	163.6	139.5	117.1	96.7	78.1	59.5
57.5°	325.4	295.7	267.8	238.0	208.3	180.4	154.3	128.3	106.0	83.7	65.1
55°	353.3	325.4	293.8	262.2	230.6	197.1	169.2	141.3	115.3	91.1	70.7
52.5°	383.1	351.4	319.8	284.5	252.9	215.7	184.1	152.5	124.6	98.6	76.2
50°	411.0	377.5	342.2	308.7	271.5	234.3	199.0	165.5	133.9	106.0	80.0
47.5°	437.0	401.7	366.3	329.1	291.9	252.9	213.8	176.7	143.2	113.4	85.5
45°	459.3	427.7	388.6	349.6	312.4	269.6	228.7	187.8	152.5	120.9	89.3
42.5°	479.8	448.1	411.0	371.9	329.1	286.4	243.6	200.8	161.8	126.4	94.8
40°	498.3	466.7	431.4	388.6	345.9	303.1	256.6	212.0	171.1	133.9	98.6
37.5°	516.9	483.5	448.1	407.2	362.6	318.0	271.5	225.0	180.4	139.5	104.1
35°	531.8	500.2	463.0	424.0	377.5	332.9	284.5	236.2	187.8	145.0	109.7
32.5°	544.8	515.1	479.8	438.8	392.4	344.0	295.7	245.5	195.2	152.5	113.4
30°	557.9	528.1	490.9	451.9	407.2	357.0	306.8	254.8	204.5	158.1	117.1
27.5°	570.9	539.3	503.9	463.0	420.2	368.2	318.0	264.1	212.0	163.6	120.9
25°	582.0	548.6	515.1	474.2	431.4	379.3	327.3	273.3	219.4	169.2	124.6
22.5°	591.3	557.9	524.4	483.5	440.7	388.6	334.7	280.8	225.0	172.9	128.3
20°	600.6	567.2	531.8	492.8	448.1	397.9	342.2	288.2	230.6	176.7	130.2
17.5°	609.9	574.6	539.3	500.2	455.6	405.4	349.6	293.8	236.2	180.4	133.9
15°	617.4	580.2	544.8	505.8	463.0	412.8	355.2	299.4	239.9	184.1	135.7
12.5°	622.9	585.7	550.4	511.4	466.7	418.4	360.7	303.1	243.6	187.8	137.6
10°	628.5	591.3	554.1	516.9	472.3	422.1	364.5	306.8	247.3	189.7	139.5
7.5°	632.2	595.0	557.9	520.7	476.0	425.8	368.2	310.5	249.2	191.5	141.3
5°	636.0	596.9	559.7	522.5	477.9	431.4	371.9	314.3	252.9	193.4	141.3
2.5°	637.8	598.8	561.6	524.4	479.8	431.4	371.9	314.3	252.9	193.4	141.3
0°	637.8	598.8	561.6	524.4	479.8	431.4	371.9	314.3	252.9	193.4	141.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.7	1.9	1.9	0.0
85°	5.6	3.7	1.9	0.0
82.5°	9.3	5.6	3.7	0.0
80°	13.0	9.3	3.7	0.0
77.5°	14.9	11.2	5.6	0.0
75°	18.6	13.0	5.6	0.0
72.5°	22.3	14.9	7.4	0.0
70°	24.2	16.7	7.4	0.0
67.5°	29.8	18.6	9.3	0.0
65°	33.5	20.5	9.3	0.0
62.5°	37.2	22.3	11.2	0.0
60°	40.9	24.2	11.2	0.0
57.5°	46.5	26.0	13.0	0.0
55°	50.2	29.8	13.0	0.0
52.5°	53.9	31.6	14.9	0.0
50°	57.6	33.5	14.9	0.0
47.5°	59.5	37.2	16.7	0.0
45°	63.2	39.0	16.7	0.0
42.5°	66.9	40.9	18.6	0.0
40°	70.7	42.8	18.6	0.0
37.5°	74.4	44.6	18.6	0.0
35°	76.2	46.5	20.5	0.0
32.5°	80.0	48.3	20.5	0.0
30°	81.8	50.2	20.5	0.0
27.5°	83.7	52.1	22.3	0.0
25°	85.5	52.1	22.3	0.0
22.5°	87.4	53.9	22.3	0.0
20°	89.3	55.8	22.3	0.0
17.5°	91.1	55.8	22.3	0.0
15°	93.0	57.6	24.2	0.0
12.5°	94.8	57.6	24.2	0.0
10°	94.8	59.5	24.2	0.0
7.5°	96.7	59.5	24.2	0.0
5°	96.7	59.5	24.2	0.0
2.5°	96.7	59.5	24.2	0.0
0°	96.7	59.5	24.2	0.0

(END OF REPORT)