

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: P623479

Luminaire Tested: **IFLD-M-SA4B-760-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623479
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-760-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	24258 lumens	Max Intensity:	78439.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	146.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

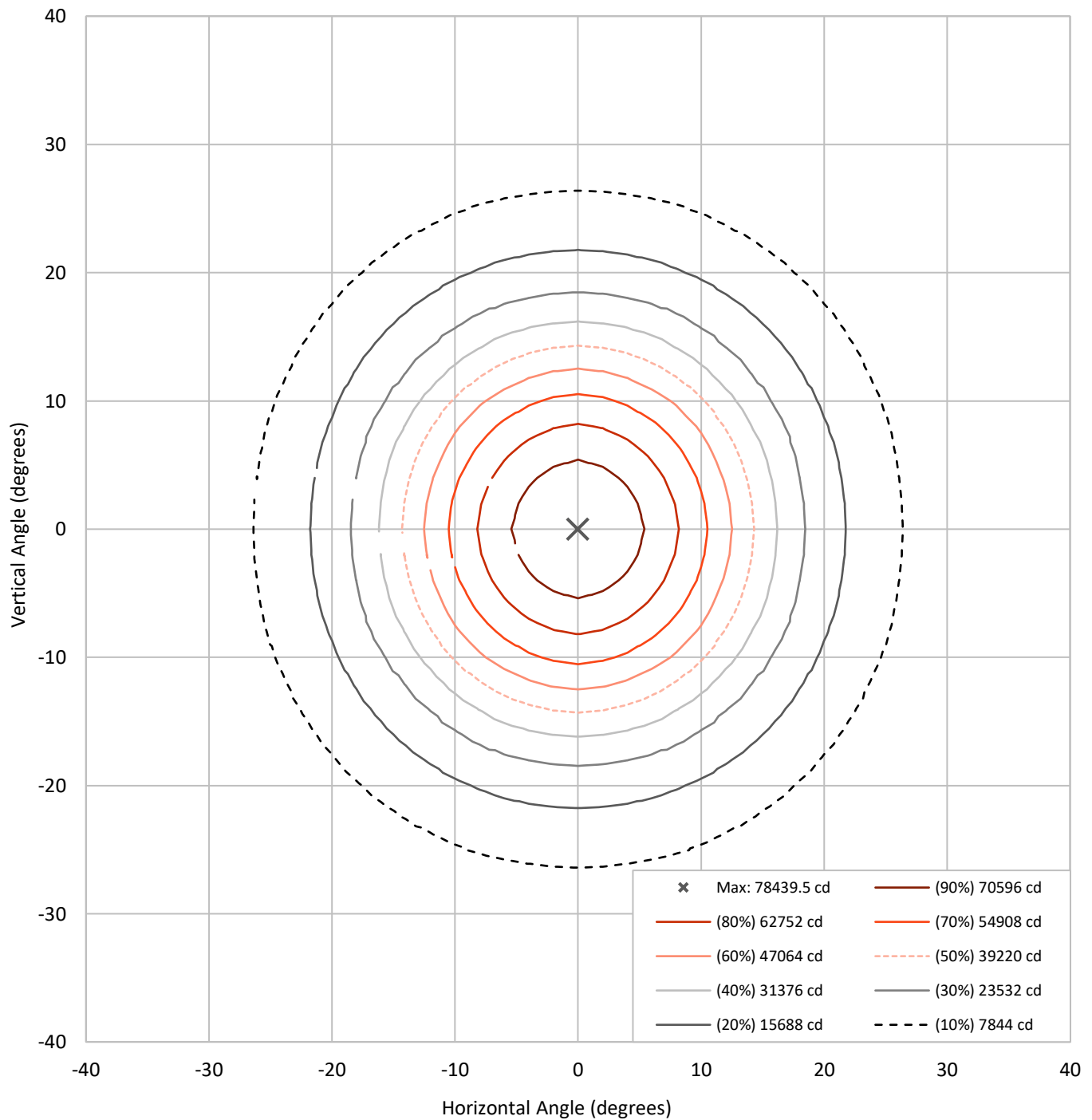
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	8752.8 lumens	Field Lumens:	14780.2 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 166.1
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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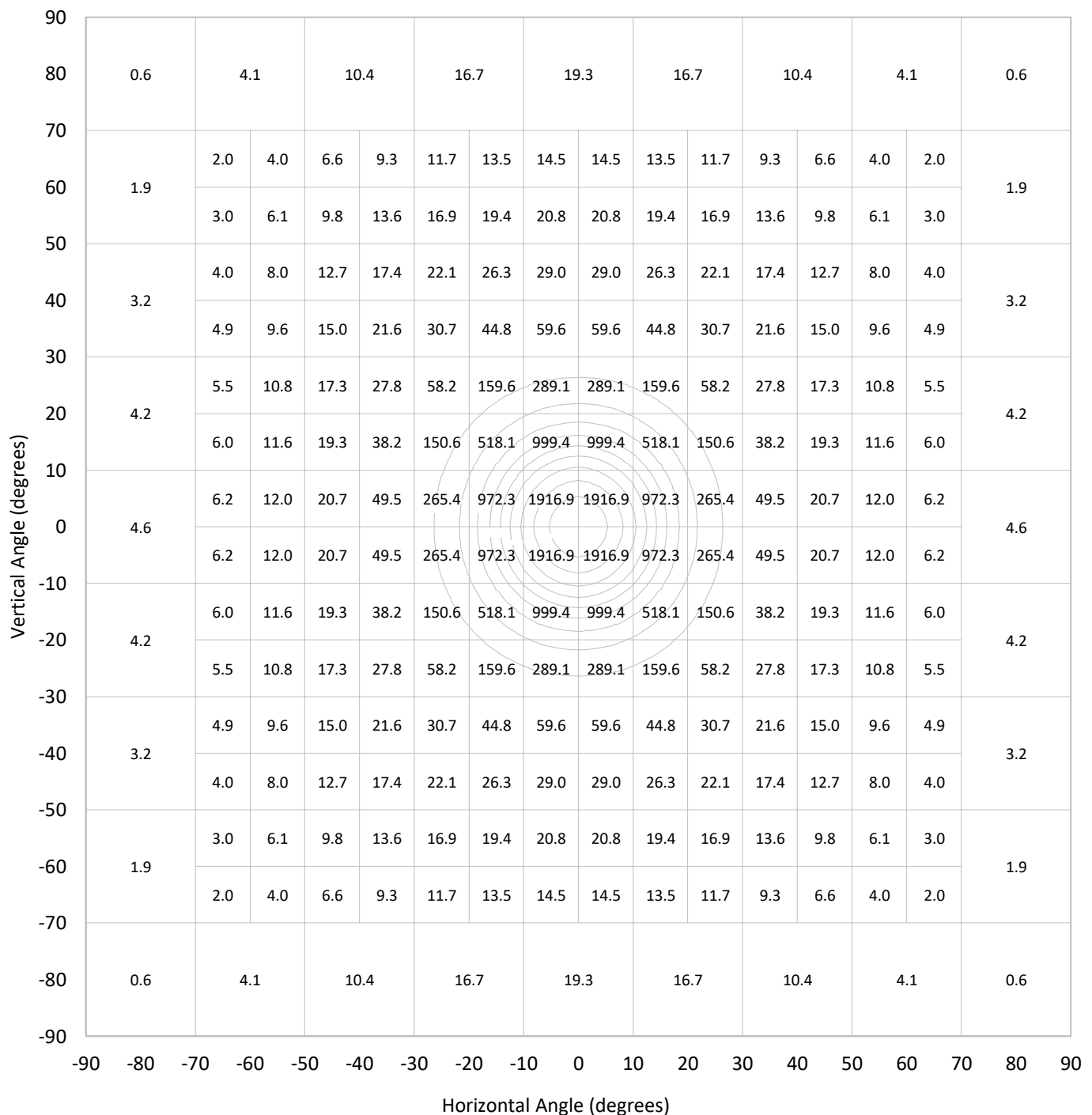
Iso-Candela Plot



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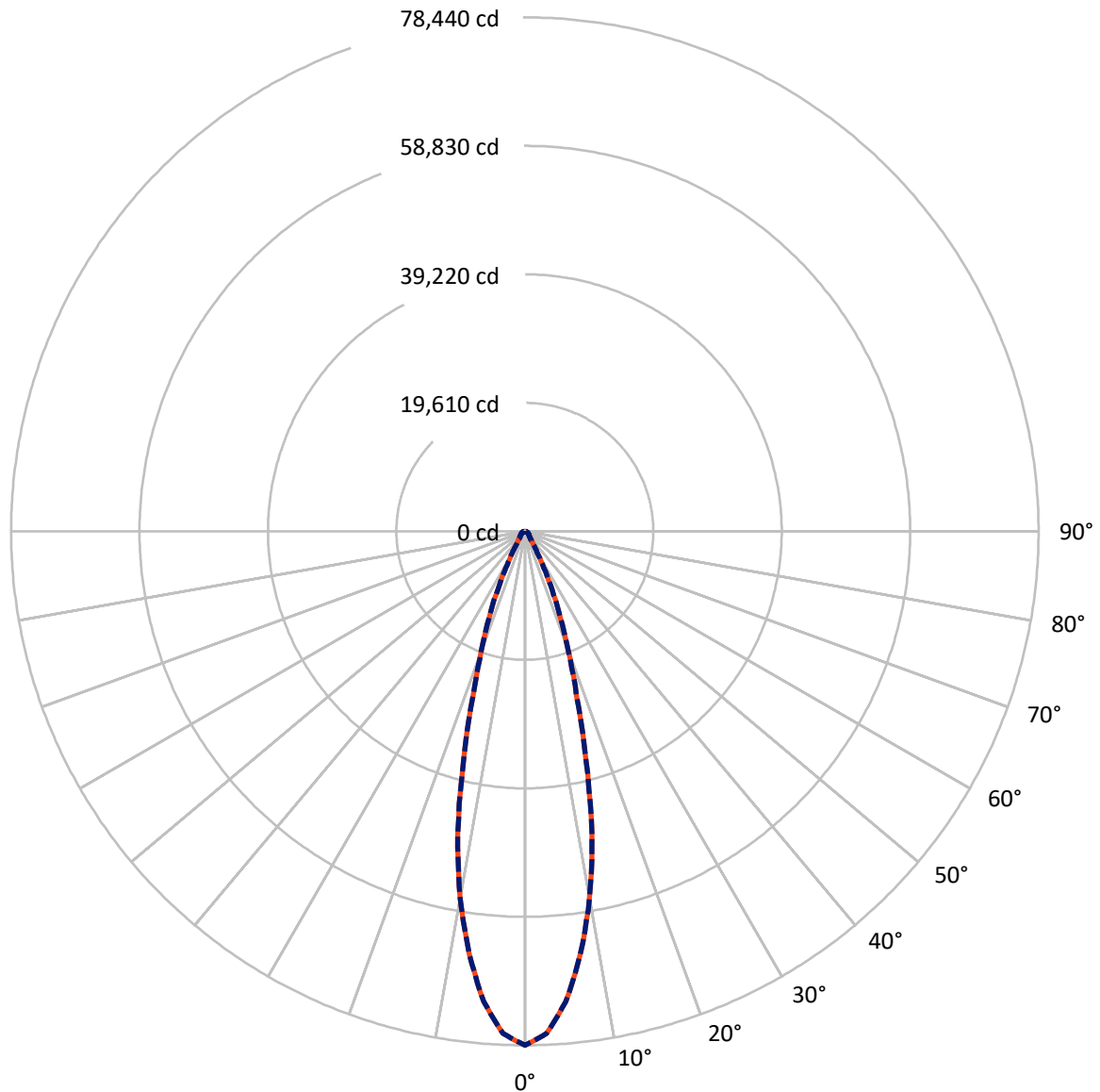
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Lumen Table



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Luminous Intensity Polar Plot

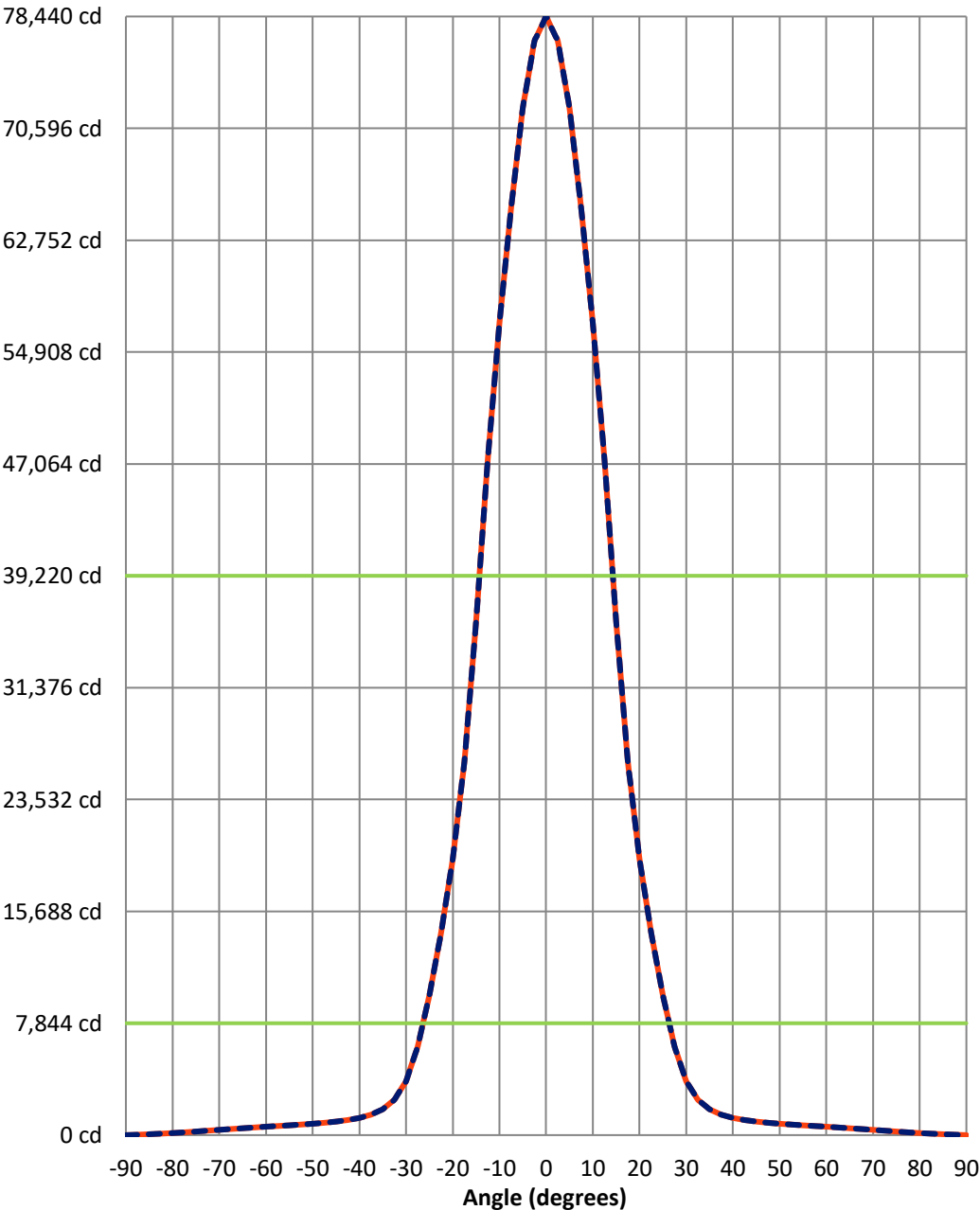


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 28.6°
V Angle: 28.6°
Lumens: 8752.8
Efficiency: 36.1%

Field:
H Angle: 52.7°
V Angle: 52.7°
Lumens: 14780.2
Efficiency: 60.9%

Spill:
Lumens: 9477.8
Efficiency: 39.1%

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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°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	25.3	25.3	25.3	25.3
85°	63.2	63.2	63.2	63.2	63.2	60.7	60.7	60.7	58.2	58.2	55.6
82.5°	101.2	101.2	101.2	101.2	98.6	98.6	96.1	96.1	93.6	93.6	91.0
80°	144.2	144.2	144.2	144.2	141.6	139.1	139.1	136.6	134.0	131.5	129.0
77.5°	194.7	194.7	194.7	192.2	189.7	189.7	187.2	182.1	179.6	174.5	172.0
75°	250.4	250.4	250.4	247.9	245.3	242.8	237.7	235.2	230.2	225.1	217.5
72.5°	311.1	311.1	311.1	308.6	303.5	301.0	295.9	290.9	285.8	278.2	270.6
70°	369.3	369.3	369.3	364.2	361.7	356.6	351.6	346.5	338.9	331.3	323.7
67.5°	427.4	427.4	427.4	422.4	419.8	414.8	409.7	402.1	394.5	384.4	376.8
65°	480.5	480.5	478.0	475.5	473.0	467.9	460.3	455.2	447.7	437.5	427.4
62.5°	536.2	536.2	533.7	531.1	526.1	521.0	513.4	505.8	495.7	485.6	475.5
60°	591.8	591.8	589.3	586.8	581.7	574.1	566.5	558.9	548.8	536.2	523.5
57.5°	637.3	637.3	634.8	632.3	627.2	622.2	614.6	607.0	596.9	586.8	571.6
55°	685.4	685.4	682.9	677.8	672.8	667.7	660.1	650.0	639.9	627.2	617.1
52.5°	741.0	741.0	738.5	733.5	725.9	718.3	708.2	695.5	682.9	670.2	655.1
50°	796.7	796.7	791.6	786.6	781.5	771.4	761.3	748.6	733.5	718.3	700.6
47.5°	865.0	865.0	859.9	852.3	842.2	832.1	816.9	799.2	784.0	766.3	746.1
45°	948.4	948.4	940.8	933.3	920.6	902.9	885.2	865.0	842.2	819.4	794.2
42.5°	1057.2	1057.2	1047.1	1034.4	1016.7	994.0	966.1	938.3	910.5	880.1	849.8
40°	1203.9	1203.9	1188.7	1171.0	1143.2	1110.3	1069.8	1031.9	994.0	951.0	913.0
37.5°	1434.0	1434.0	1408.7	1375.9	1330.3	1274.7	1206.4	1155.8	1097.7	1042.0	991.4
35°	1810.9	1810.9	1765.4	1707.2	1626.3	1525.1	1416.3	1330.3	1234.2	1155.8	1082.5
32.5°	2481.1	2481.1	2390.1	2276.2	2122.0	1924.7	1742.6	1590.8	1434.0	1312.6	1196.3
30°	3778.6	3778.6	3583.8	3343.6	3012.2	2597.5	2286.4	1995.5	1729.9	1530.1	1360.7
27.5°	6214.2	6113.0	5809.5	5311.2	4628.4	3778.6	3237.3	2622.7	2202.9	1821.0	1585.8
25°	9810.6	9643.7	9142.9	8326.0	7213.2	5951.1	4845.9	3679.9	2943.9	2309.1	1871.6
22.5°	14181.0	13950.9	13270.5	12160.2	10655.4	8976.0	7187.9	5511.1	4018.8	3052.7	2309.1
20°	19355.7	19047.1	18134.1	16652.0	14659.0	12521.9	10134.4	7888.5	5736.1	4018.8	2943.9
17.5°	26187.0	25716.6	24333.1	22107.4	19355.7	16475.0	13490.6	10592.1	7888.5	5511.1	3679.9
15°	36007.7	35213.6	32891.8	29204.3	24919.9	20903.6	17097.2	13490.6	10134.4	7187.9	4845.9
12.5°	47361.2	46255.9	43056.5	38066.5	32244.3	25893.6	20903.6	16475.0	12521.9	8976.0	5951.1
10°	56926.5	55760.5	52454.9	47449.7	40067.0	32244.3	24919.9	19355.7	14659.0	10655.4	7213.2
7.5°	65007.1	63702.1	60138.5	54662.9	47449.7	38066.5	29204.3	22107.4	16652.0	12160.2	8326.0
5°	72025.6	70371.5	66223.7	60138.5	52454.9	43056.5	32891.8	24333.1	18134.1	13270.5	9142.9
2.5°	76714.6	74772.2	70371.5	63702.1	55760.5	46255.9	35213.6	25716.6	19047.1	13950.9	9643.7
0°	78439.5	76714.6	72025.6	65007.1	56926.5	47361.2	36007.7	26187.0	19355.7	14181.0	9810.6

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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°	25.3	25.3	22.8	22.8	22.8	20.2	20.2	20.2	17.7	17.7	17.7
85°	55.6	53.1	53.1	50.6	48.1	45.5	45.5	43.0	40.5	37.9	35.4
82.5°	88.5	86.0	83.5	80.9	78.4	73.3	70.8	68.3	63.2	60.7	58.2
80°	123.9	121.4	116.3	113.8	108.8	103.7	98.6	93.6	88.5	83.5	78.4
77.5°	166.9	159.3	154.3	149.2	141.6	136.6	129.0	123.9	116.3	108.8	101.2
75°	212.4	204.9	197.3	189.7	182.1	172.0	164.4	154.3	146.7	136.6	129.0
72.5°	263.0	252.9	242.8	232.7	222.6	212.4	202.3	189.7	179.6	166.9	154.3
70°	313.6	303.5	293.4	280.7	268.1	255.4	242.8	227.6	215.0	199.8	184.6
67.5°	366.7	354.1	341.4	328.8	316.1	301.0	283.3	268.1	250.4	232.7	217.5
65°	417.3	404.7	389.5	374.3	359.1	344.0	326.3	308.6	288.3	268.1	250.4
62.5°	462.8	450.2	437.5	419.8	404.7	387.0	369.3	346.5	326.3	306.0	283.3
60°	510.9	495.7	480.5	462.8	445.1	427.4	407.2	384.4	364.2	338.9	316.1
57.5°	556.4	541.2	523.5	505.8	485.6	465.4	445.1	422.4	399.6	374.3	349.0
55°	601.9	586.8	569.1	548.8	526.1	503.3	480.5	457.8	435.0	407.2	379.4
52.5°	639.9	624.7	607.0	591.8	566.5	543.8	518.5	490.7	465.4	437.5	409.7
50°	680.3	662.6	642.4	624.7	604.5	581.7	553.9	526.1	495.7	467.9	437.5
47.5°	725.9	703.1	680.3	657.6	637.3	612.1	589.3	558.9	528.6	495.7	465.4
45°	771.4	746.1	720.8	693.0	667.7	642.4	617.1	591.8	558.9	526.1	490.7
42.5°	819.4	789.1	761.3	733.5	703.1	672.8	644.9	617.1	589.3	553.9	518.5
40°	875.1	839.7	804.3	771.4	741.0	705.6	672.8	642.4	612.1	581.7	543.8
37.5°	938.3	895.3	852.3	811.9	773.9	741.0	703.1	667.7	637.3	604.5	566.5
35°	1019.3	956.0	905.4	854.9	811.9	771.4	733.5	693.0	657.6	624.7	591.8
32.5°	1110.3	1031.9	963.6	905.4	852.3	804.3	761.3	720.8	680.3	642.4	607.0
30°	1221.6	1120.4	1031.9	956.0	895.3	839.7	789.1	746.1	703.1	662.6	624.7
27.5°	1378.4	1221.6	1110.3	1019.3	938.3	875.1	819.4	771.4	725.9	680.3	639.9
25°	1585.8	1360.7	1196.3	1082.5	991.4	913.0	849.8	794.2	746.1	700.6	655.1
22.5°	1821.0	1530.1	1312.6	1155.8	1042.0	951.0	880.1	819.4	766.3	718.3	670.2
20°	2202.9	1729.9	1434.0	1234.2	1097.7	994.0	910.5	842.2	784.0	733.5	682.9
17.5°	2622.7	1995.5	1590.8	1330.3	1155.8	1031.9	938.3	865.0	799.2	748.6	695.5
15°	3237.3	2286.4	1742.6	1416.3	1206.4	1069.8	966.1	885.2	816.9	761.3	708.2
12.5°	3778.6	2597.5	1924.7	1525.1	1274.7	1110.3	994.0	902.9	832.1	771.4	718.3
10°	4628.4	3012.2	2122.0	1626.3	1330.3	1143.2	1016.7	920.6	842.2	781.5	725.9
7.5°	5311.2	3343.6	2276.2	1707.2	1375.9	1171.0	1034.4	933.3	852.3	786.6	733.5
5°	5809.5	3583.8	2390.1	1765.4	1408.7	1188.7	1047.1	940.8	859.9	791.6	738.5
2.5°	6113.0	3778.6	2481.1	1810.9	1434.0	1203.9	1057.2	948.4	865.0	796.7	741.0
0°	6214.2	3778.6	2481.1	1810.9	1434.0	1203.9	1057.2	948.4	865.0	796.7	741.0

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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°	15.2	15.2	12.6	12.6	12.6	10.1	10.1	7.6	7.6	5.1	5.1
85°	32.9	30.3	27.8	25.3	22.8	20.2	20.2	17.7	15.2	12.6	10.1
82.5°	53.1	50.6	45.5	40.5	37.9	32.9	27.8	25.3	22.8	17.7	15.2
80°	73.3	68.3	63.2	58.2	53.1	45.5	40.5	35.4	27.8	22.8	20.2
77.5°	96.1	88.5	80.9	73.3	65.8	60.7	53.1	45.5	37.9	30.3	22.8
75°	118.9	108.8	101.2	91.0	83.5	73.3	63.2	55.6	48.1	37.9	27.8
72.5°	144.2	131.5	121.4	108.8	98.6	88.5	75.9	65.8	55.6	45.5	35.4
70°	172.0	156.8	141.6	129.0	116.3	101.2	88.5	75.9	63.2	53.1	40.5
67.5°	199.8	182.1	164.4	146.7	131.5	116.3	101.2	88.5	73.3	60.7	45.5
65°	227.6	207.4	189.7	169.5	149.2	131.5	116.3	98.6	83.5	65.8	53.1
62.5°	258.0	235.2	212.4	189.7	169.5	146.7	129.0	108.8	91.0	73.3	58.2
60°	290.9	265.6	237.7	212.4	189.7	164.4	141.6	121.4	101.2	80.9	63.2
57.5°	321.2	293.4	265.6	235.2	207.4	182.1	156.8	131.5	108.8	88.5	68.3
55°	351.6	321.2	290.9	258.0	227.6	199.8	172.0	144.2	118.9	96.1	73.3
52.5°	379.4	349.0	316.1	283.3	250.4	217.5	184.6	154.3	129.0	101.2	78.4
50°	407.2	374.3	338.9	306.0	268.1	232.7	199.8	166.9	136.6	108.8	83.5
47.5°	435.0	399.6	364.2	326.3	288.3	250.4	215.0	179.6	146.7	116.3	88.5
45°	457.8	422.4	384.4	346.5	308.6	268.1	227.6	189.7	154.3	123.9	93.6
42.5°	480.5	445.1	407.2	369.3	326.3	283.3	242.8	202.3	164.4	129.0	98.6
40°	503.3	465.4	427.4	387.0	344.0	301.0	255.4	212.4	172.0	136.6	103.7
37.5°	526.1	485.6	445.1	404.7	359.1	316.1	268.1	222.6	182.1	141.6	108.8
35°	548.8	505.8	462.8	419.8	374.3	328.8	280.7	232.7	189.7	149.2	113.8
32.5°	569.1	523.5	480.5	437.5	389.5	341.4	293.4	242.8	197.3	154.3	116.3
30°	586.8	541.2	495.7	450.2	404.7	354.1	303.5	252.9	204.9	159.3	121.4
27.5°	601.9	556.4	510.9	462.8	417.3	366.7	313.6	263.0	212.4	166.9	123.9
25°	617.1	571.6	523.5	475.5	427.4	376.8	323.7	270.6	217.5	172.0	129.0
22.5°	627.2	586.8	536.2	485.6	437.5	384.4	331.3	278.2	225.1	174.5	131.5
20°	639.9	596.9	548.8	495.7	447.7	394.5	338.9	285.8	230.2	179.6	134.0
17.5°	650.0	607.0	558.9	505.8	455.2	402.1	346.5	290.9	235.2	182.1	136.6
15°	660.1	614.6	566.5	513.4	460.3	409.7	351.6	295.9	237.7	187.2	139.1
12.5°	667.7	622.2	574.1	521.0	467.9	414.8	356.6	301.0	242.8	189.7	139.1
10°	672.8	627.2	581.7	526.1	473.0	419.8	361.7	303.5	245.3	189.7	141.6
7.5°	677.8	632.3	586.8	531.1	475.5	422.4	364.2	308.6	247.9	192.2	144.2
5°	682.9	634.8	589.3	533.7	478.0	427.4	369.3	311.1	250.4	194.7	144.2
2.5°	685.4	637.3	591.8	536.2	480.5	427.4	369.3	311.1	250.4	194.7	144.2
0°	685.4	637.3	591.8	536.2	480.5	427.4	369.3	311.1	250.4	194.7	144.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	0.0	0.0
85°	7.6	5.1	2.5	0.0
82.5°	10.1	7.6	2.5	0.0
80°	15.2	10.1	5.1	0.0
77.5°	17.7	12.6	5.1	0.0
75°	22.8	15.2	7.6	0.0
72.5°	25.3	17.7	7.6	0.0
70°	27.8	20.2	10.1	0.0
67.5°	32.9	20.2	10.1	0.0
65°	37.9	22.8	12.6	0.0
62.5°	40.5	25.3	12.6	0.0
60°	45.5	27.8	12.6	0.0
57.5°	50.6	30.3	15.2	0.0
55°	53.1	32.9	15.2	0.0
52.5°	58.2	35.4	17.7	0.0
50°	60.7	37.9	17.7	0.0
47.5°	63.2	40.5	17.7	0.0
45°	68.3	43.0	20.2	0.0
42.5°	70.8	45.5	20.2	0.0
40°	73.3	45.5	20.2	0.0
37.5°	78.4	48.1	22.8	0.0
35°	80.9	50.6	22.8	0.0
32.5°	83.5	53.1	22.8	0.0
30°	86.0	53.1	25.3	0.0
27.5°	88.5	55.6	25.3	0.0
25°	91.0	55.6	25.3	0.0
22.5°	93.6	58.2	25.3	0.0
20°	93.6	58.2	25.3	0.0
17.5°	96.1	60.7	25.3	0.0
15°	96.1	60.7	27.8	0.0
12.5°	98.6	60.7	27.8	0.0
10°	98.6	63.2	27.8	0.0
7.5°	101.2	63.2	27.8	0.0
5°	101.2	63.2	27.8	0.0
2.5°	101.2	63.2	27.8	0.0
0°	101.2	63.2	27.8	0.0

(END OF REPORT)