

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: P624015

Luminaire Tested: **IFLD-S-SA2B-827-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624015
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

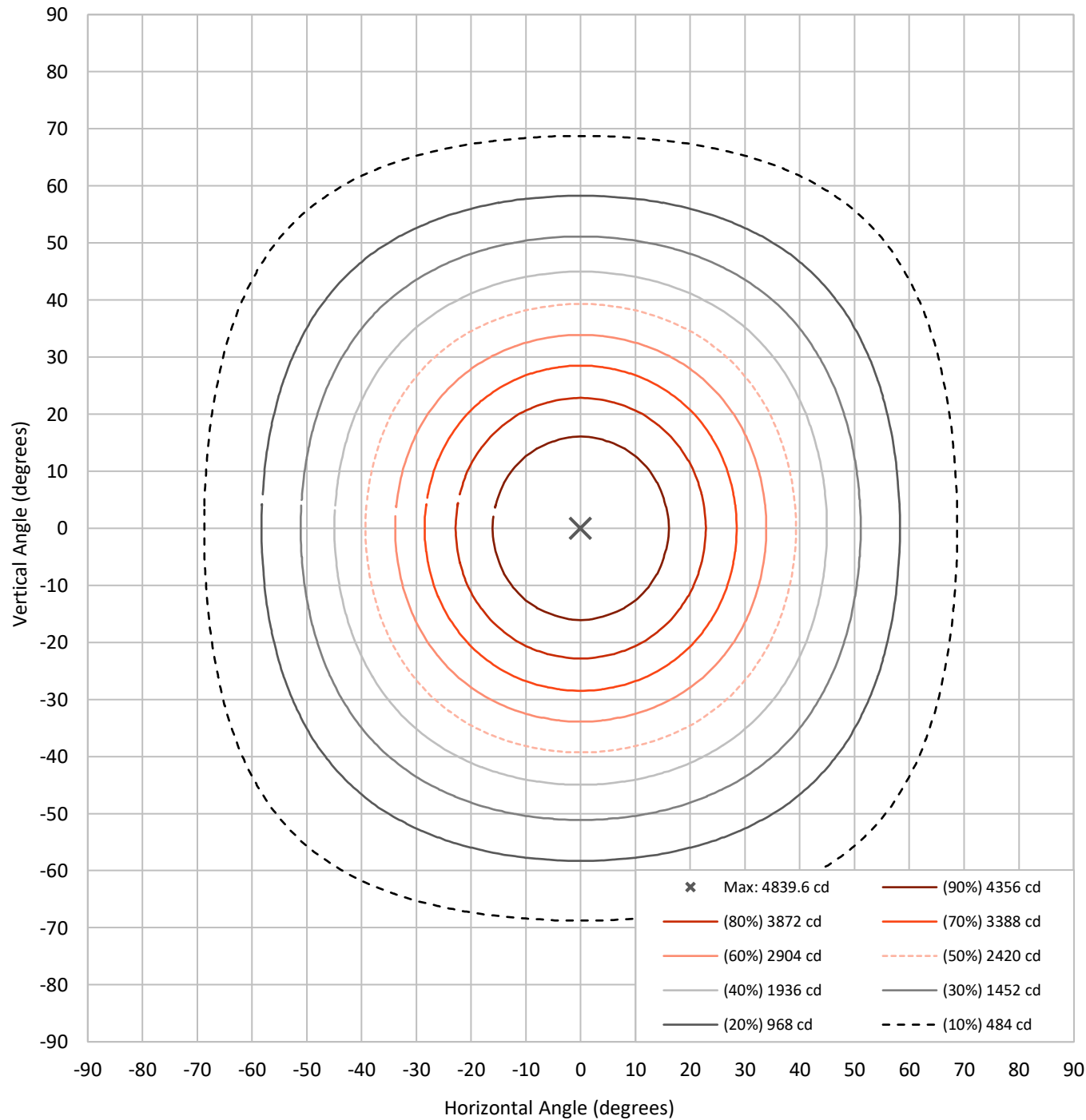
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	8713.7 lumens	Max Intensity:	4839.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	105.7 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	3770.4 lumens	Field Lumens:	6173.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	82.4		
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		





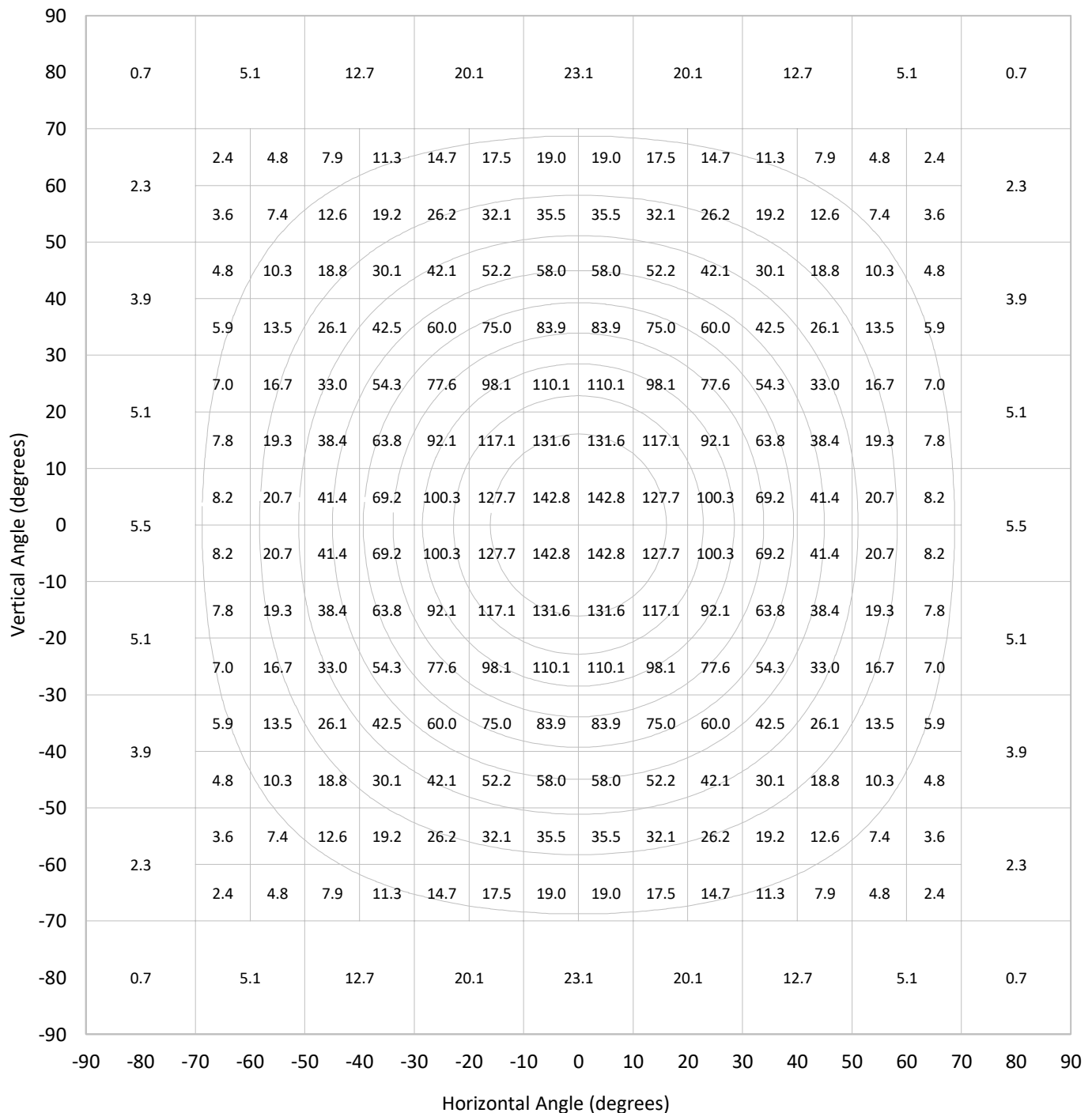
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Iso-Candela Plot



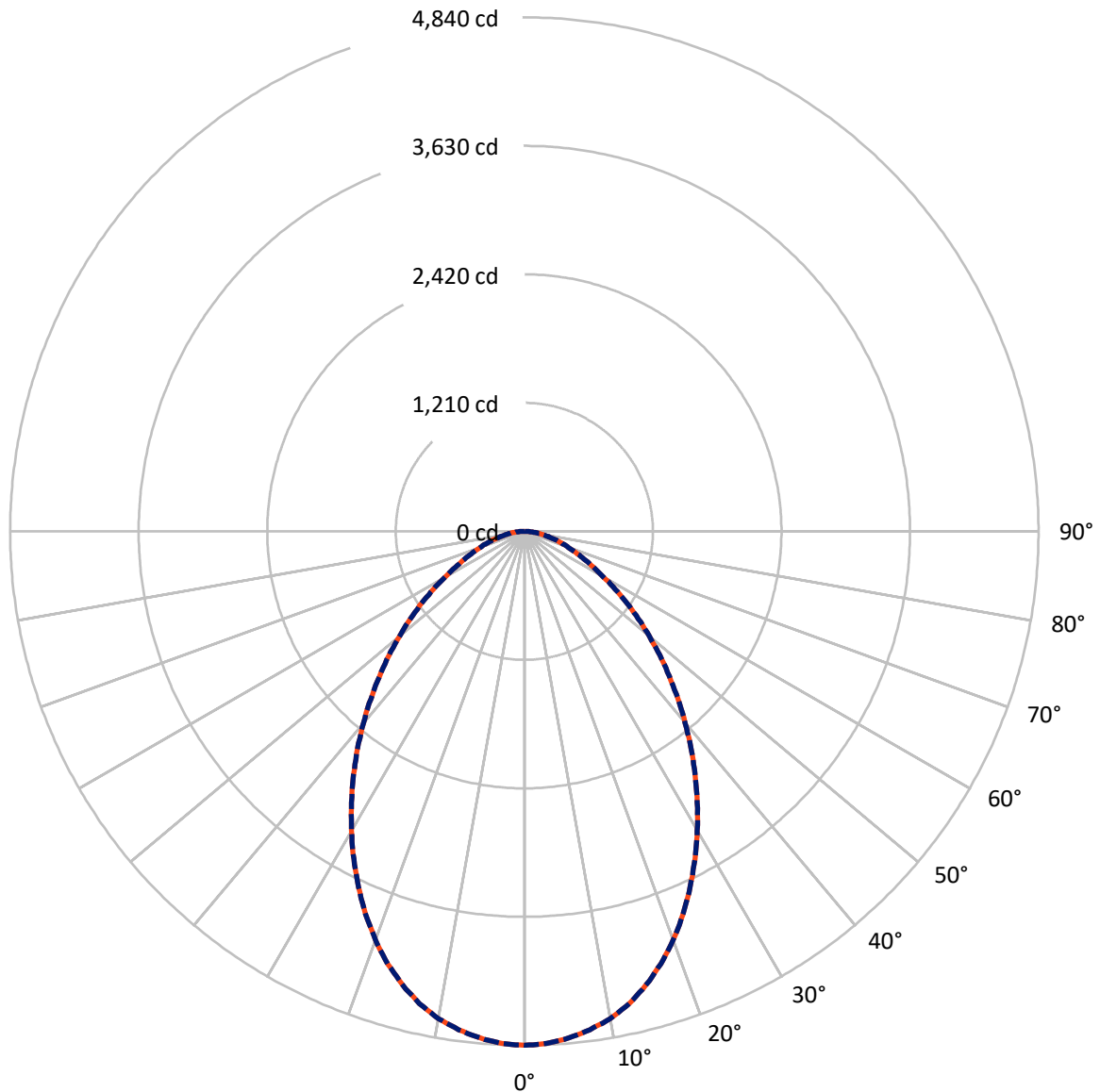
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Lumen Table



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Luminous Intensity Polar Plot

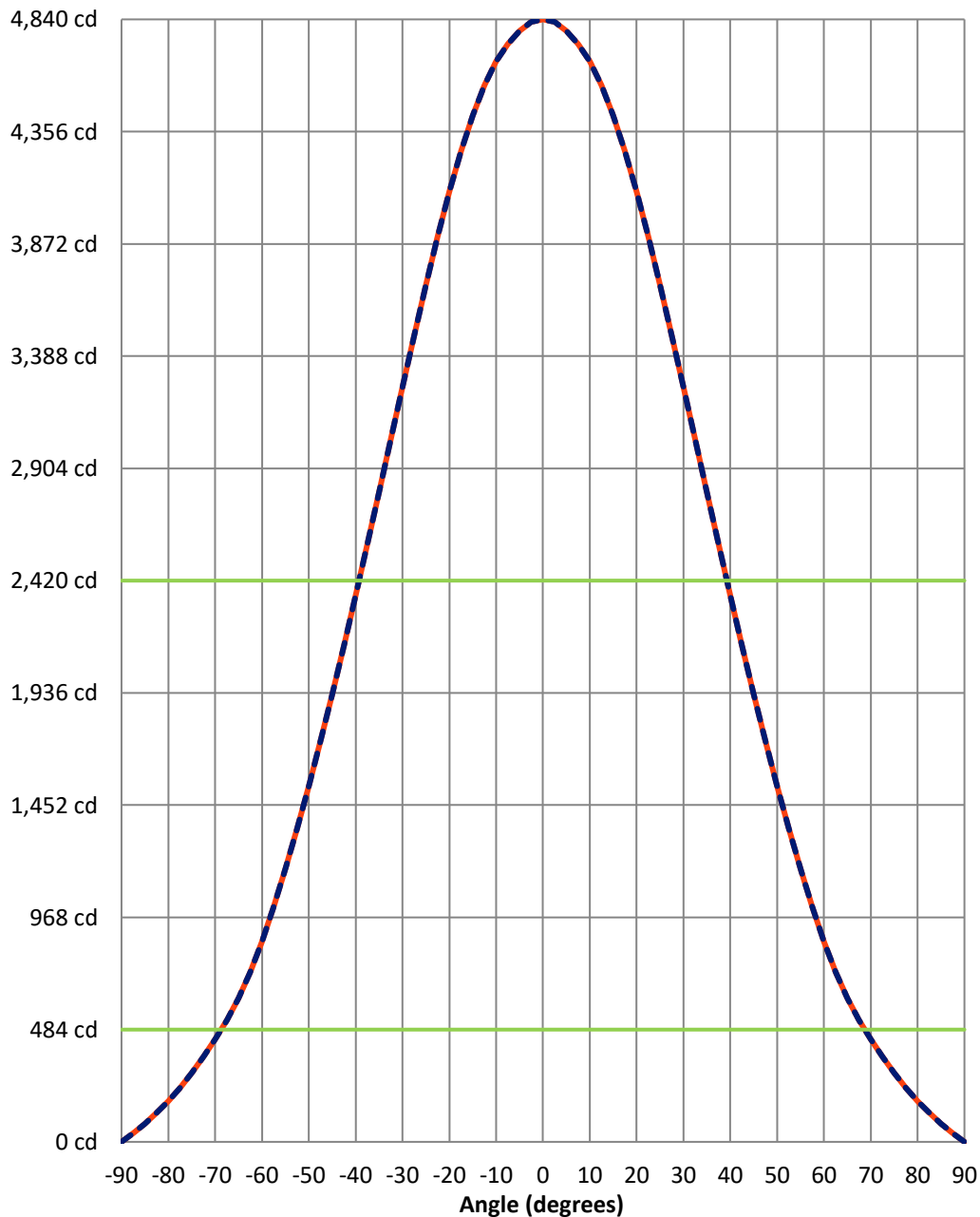


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg

Beam:

H Angle:	78.6°
V Angle:	78.6°
Lumens:	3770.4
Efficiency:	43.3%

Field:

H Angle:	137.5°
V Angle:	137.5°
Lumens:	6173.8
Efficiency:	70.9%

Spill:

Lumens:	2539.9
Efficiency:	29.1%



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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°	37.2	37.2	37.2	37.2	37.2	37.2	37.2	35.4	35.4	34.5	33.6
85°	78.1	78.1	78.1	78.1	78.1	76.3	75.4	74.5	73.6	71.8	70.9
82.5°	125.4	125.4	125.4	125.4	123.6	121.7	120.8	119.0	117.2	114.5	111.7
80°	175.3	175.3	175.3	175.3	172.6	170.8	168.1	166.3	163.5	159.9	156.3
77.5°	232.6	232.6	232.6	229.8	228.0	225.3	222.6	218.9	215.3	210.8	205.3
75°	297.1	297.1	297.1	293.4	290.7	288.0	283.5	278.9	273.5	267.1	259.8
72.5°	367.0	367.0	367.0	362.5	359.8	355.2	349.8	343.4	337.1	328.9	319.8
70°	442.4	442.4	442.4	437.0	432.4	427.9	420.6	413.4	404.3	395.2	384.3
67.5°	524.2	524.2	524.2	517.8	512.4	506.0	497.9	488.8	477.9	465.2	452.4
65°	619.6	619.6	616.0	610.5	604.2	595.1	585.1	572.4	558.7	542.4	525.1
62.5°	732.2	732.2	726.8	720.4	712.3	700.5	686.8	670.5	651.4	630.5	609.6
60°	863.1	863.1	856.7	848.5	836.7	822.2	804.0	783.1	759.5	733.2	707.7
57.5°	1013.9	1013.9	1005.7	994.8	980.3	962.1	939.4	913.0	883.1	850.4	818.6
55°	1177.4	1177.4	1167.4	1154.7	1137.4	1115.6	1088.4	1057.5	1021.2	983.9	943.0
52.5°	1350.9	1350.9	1339.1	1324.6	1304.6	1279.2	1248.3	1211.9	1170.1	1126.5	1078.4
50°	1533.5	1533.5	1519.9	1503.6	1480.8	1450.9	1415.4	1373.6	1327.3	1276.4	1221.0
47.5°	1728.9	1728.9	1713.4	1694.3	1667.1	1632.6	1590.8	1542.6	1489.9	1432.7	1370.0
45°	1929.6	1929.6	1912.4	1890.6	1860.6	1821.5	1775.2	1728.9	1661.6	1595.3	1522.6
42.5°	2138.6	2138.6	2118.6	2094.1	2059.6	2016.9	1964.2	1904.2	1837.9	1763.4	1684.4
40°	2355.7	2355.7	2333.0	2304.9	2266.7	2217.6	2158.6	2091.4	2016.9	1934.2	1847.0
37.5°	2577.4	2577.4	2552.0	2521.1	2478.4	2423.9	2357.5	2283.1	2199.5	2107.7	2011.4
35°	2800.9	2800.9	2772.7	2739.1	2691.9	2631.9	2560.1	2477.5	2384.8	2284.9	2176.8
32.5°	3028.9	3028.9	2998.0	2959.9	2906.3	2840.0	2760.9	2671.0	2577.4	2461.1	2343.0
30°	3254.2	3254.2	3220.6	3178.8	3121.6	3048.9	2962.6	2863.6	2753.7	2634.6	2507.5
27.5°	3475.9	3466.8	3438.7	3394.1	3331.5	3254.2	3160.7	3053.5	2934.4	2803.6	2667.3
25°	3693.9	3684.0	3653.1	3604.0	3536.8	3452.3	3351.4	3237.0	3108.9	2970.8	2821.8
22.5°	3902.9	3892.0	3859.3	3806.6	3734.8	3643.1	3535.0	3412.3	3276.0	3128.0	2970.8
20°	4096.4	4084.6	4051.0	3995.6	3921.1	3823.9	3709.4	3577.7	3432.3	3276.0	3108.9
17.5°	4270.8	4259.0	4223.6	4166.4	4096.4	3988.3	3870.2	3731.2	3577.7	3412.3	3237.0
15°	4424.4	4411.7	4375.3	4318.1	4238.1	4136.4	4011.9	3870.2	3709.4	3535.0	3351.4
12.5°	4555.2	4542.5	4505.2	4448.0	4365.3	4263.6	4136.4	3988.3	3823.9	3643.1	3452.3
10°	4658.8	4646.1	4610.6	4556.1	4470.7	4365.3	4238.1	4096.4	3921.1	3734.8	3536.8
7.5°	4733.3	4721.5	4688.8	4634.2	4556.1	4448.0	4318.1	4166.4	3995.6	3806.6	3604.0
5°	4789.6	4776.0	4743.3	4688.8	4610.6	4505.2	4375.3	4223.6	4051.0	3859.3	3653.1
2.5°	4828.7	4812.3	4776.0	4721.5	4646.1	4542.5	4411.7	4259.0	4084.6	3892.0	3684.0
0°	4839.6	4828.7	4789.6	4733.3	4658.8	4555.2	4424.4	4270.8	4096.4	3902.9	3693.9

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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°	32.7	32.7	31.8	30.9	30.0	28.2	27.3	26.3	25.4	23.6	22.7
85°	69.0	67.2	65.4	63.6	60.9	59.1	56.3	54.5	51.8	49.1	46.3
82.5°	109.0	106.3	102.7	99.9	96.3	91.8	88.1	83.6	79.0	75.4	70.9
80°	152.6	148.1	143.5	139.0	133.5	128.1	122.6	117.2	110.8	104.5	98.1
77.5°	199.9	193.5	187.2	179.9	173.5	166.3	159.0	151.7	143.5	135.4	127.2
75°	252.6	244.4	235.3	226.2	218.0	208.0	198.1	188.1	177.2	167.2	156.3
72.5°	309.8	299.8	288.9	278.0	266.2	253.5	240.8	227.1	214.4	201.7	188.1
70°	371.6	359.8	346.1	332.5	318.0	302.5	287.1	270.7	254.4	238.0	221.7
67.5°	437.9	423.4	407.0	390.7	372.5	354.3	336.1	317.1	297.1	277.1	258.0
65°	508.8	490.6	471.5	450.6	429.7	408.8	387.0	364.3	341.6	318.0	297.1
62.5°	587.8	565.1	540.6	515.1	491.5	466.1	442.4	414.3	387.0	360.7	334.3
60°	679.6	649.6	619.6	587.8	557.8	525.1	496.0	465.2	434.3	404.3	373.4
57.5°	782.2	744.1	707.7	669.6	629.6	593.2	556.0	518.8	484.2	448.8	415.2
55°	898.5	852.2	806.7	759.5	713.2	667.7	620.5	578.7	536.0	496.0	457.0
52.5°	1025.7	973.0	916.7	863.1	804.0	747.7	695.0	642.3	592.3	544.2	499.7
50°	1162.0	1100.2	1035.7	970.3	903.0	836.7	773.1	711.4	653.2	596.9	544.2
47.5°	1303.7	1233.7	1160.2	1085.7	1013.9	933.0	856.7	786.8	716.8	653.2	592.3
45°	1449.1	1370.0	1289.2	1204.7	1120.2	1033.0	948.5	863.1	786.8	711.4	642.3
42.5°	1599.0	1509.9	1420.0	1326.4	1232.8	1137.4	1042.0	948.5	856.7	773.1	695.0
40°	1753.4	1655.3	1552.6	1450.9	1350.9	1241.9	1137.4	1033.0	933.0	836.7	747.7
37.5°	1907.8	1800.6	1689.8	1575.3	1460.9	1350.9	1232.8	1120.2	1013.9	903.0	804.0
35°	2063.2	1945.1	1825.2	1700.7	1575.3	1450.9	1326.4	1204.7	1085.7	970.3	863.1
32.5°	2219.5	2090.5	1957.8	1825.2	1689.8	1552.6	1420.0	1289.2	1160.2	1035.7	916.7
30°	2373.0	2233.1	2090.5	1945.1	1800.6	1655.3	1509.9	1370.0	1233.7	1100.2	973.0
27.5°	2522.9	2373.0	2219.5	2063.2	1907.8	1753.4	1599.0	1449.1	1303.7	1162.0	1025.7
25°	2667.3	2507.5	2343.0	2176.8	2011.4	1847.0	1684.4	1522.6	1370.0	1221.0	1078.4
22.5°	2803.6	2634.6	2461.1	2284.9	2107.7	1934.2	1763.4	1595.3	1432.7	1276.4	1126.5
20°	2934.4	2753.7	2577.4	2384.8	2199.5	2016.9	1837.9	1661.6	1489.9	1327.3	1170.1
17.5°	3053.5	2863.6	2671.0	2477.5	2283.1	2091.4	1904.2	1728.9	1542.6	1373.6	1211.9
15°	3160.7	2962.6	2760.9	2560.1	2357.5	2158.6	1964.2	1775.2	1590.8	1415.4	1248.3
12.5°	3254.2	3048.9	2840.0	2631.9	2423.9	2217.6	2016.9	1821.5	1632.6	1450.9	1279.2
10°	3331.5	3121.6	2906.3	2691.9	2478.4	2266.7	2059.6	1860.6	1667.1	1480.8	1304.6
7.5°	3394.1	3178.8	2959.9	2739.1	2521.1	2304.9	2094.1	1890.6	1694.3	1503.6	1324.6
5°	3438.7	3220.6	2998.0	2772.7	2552.0	2333.0	2118.6	1912.4	1713.4	1519.9	1339.1
2.5°	3466.8	3254.2	3028.9	2800.9	2577.4	2355.7	2138.6	1929.6	1728.9	1533.5	1350.9
0°	3475.9	3254.2	3028.9	2800.9	2577.4	2355.7	2138.6	1929.6	1728.9	1533.5	1350.9

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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°	21.8	20.0	18.2	17.3	15.4	14.5	12.7	10.9	10.0	8.2	6.4
85°	43.6	40.0	37.2	34.5	31.8	28.2	25.4	22.7	19.1	16.4	12.7
82.5°	66.3	61.8	57.2	52.7	48.2	43.6	38.2	33.6	29.1	24.5	19.1
80°	91.8	84.5	78.1	71.8	65.4	59.1	51.8	45.4	38.2	31.8	25.4
77.5°	118.1	109.9	100.8	91.8	82.7	74.5	65.4	57.2	49.1	40.0	31.8
75°	146.3	135.4	125.4	113.6	102.7	90.8	79.9	69.0	59.1	49.1	38.2
72.5°	175.3	161.7	148.1	135.4	121.7	108.1	95.4	81.8	69.0	57.2	45.4
70°	205.3	189.0	172.6	157.2	141.7	125.4	110.8	95.4	79.9	65.4	51.8
67.5°	237.1	218.0	199.0	179.0	161.7	143.5	125.4	108.1	90.8	74.5	59.1
65°	271.6	248.9	225.3	204.4	181.7	161.7	141.7	121.7	102.7	82.7	65.4
62.5°	307.1	280.7	254.4	228.0	204.4	179.0	157.2	135.4	113.6	91.8	71.8
60°	343.4	313.4	283.5	254.4	225.3	199.0	172.6	148.1	125.4	100.8	78.1
57.5°	380.7	347.0	313.4	280.7	248.9	218.0	189.0	161.7	135.4	109.9	84.5
55°	418.8	380.7	343.4	307.1	271.6	237.1	205.3	175.3	146.3	118.1	91.8
52.5°	457.0	415.2	373.4	334.3	297.1	258.0	221.7	188.1	156.3	127.2	98.1
50°	496.0	448.8	404.3	360.7	318.0	277.1	238.0	201.7	167.2	135.4	104.5
47.5°	536.0	484.2	434.3	387.0	341.6	297.1	254.4	214.4	177.2	143.5	110.8
45°	578.7	518.8	465.2	414.3	364.3	317.1	270.7	227.1	188.1	151.7	117.2
42.5°	620.5	556.0	496.0	442.4	387.0	336.1	287.1	240.8	198.1	159.0	122.6
40°	667.7	593.2	525.1	466.1	408.8	354.3	302.5	253.5	208.0	166.3	128.1
37.5°	713.2	629.6	557.8	491.5	429.7	372.5	318.0	266.2	218.0	173.5	133.5
35°	759.5	669.6	587.8	515.1	450.6	390.7	332.5	278.0	226.2	179.9	139.0
32.5°	806.7	707.7	619.6	540.6	471.5	407.0	346.1	288.9	235.3	187.2	143.5
30°	852.2	744.1	649.6	565.1	490.6	423.4	359.8	299.8	244.4	193.5	148.1
27.5°	898.5	782.2	679.6	587.8	508.8	437.9	371.6	309.8	252.6	199.9	152.6
25°	943.0	818.6	707.7	609.6	525.1	452.4	384.3	319.8	259.8	205.3	156.3
22.5°	983.9	850.4	733.2	630.5	542.4	465.2	395.2	328.9	267.1	210.8	159.9
20°	1021.2	883.1	759.5	651.4	558.7	477.9	404.3	337.1	273.5	215.3	163.5
17.5°	1057.5	913.0	783.1	670.5	572.4	488.8	413.4	343.4	278.9	218.9	166.3
15°	1088.4	939.4	804.0	686.8	585.1	497.9	420.6	349.8	283.5	222.6	168.1
12.5°	1115.6	962.1	822.2	700.5	595.1	506.0	427.9	355.2	288.0	225.3	170.8
10°	1137.4	980.3	836.7	712.3	604.2	512.4	432.4	359.8	290.7	228.0	172.6
7.5°	1154.7	994.8	848.5	720.4	610.5	517.8	437.0	362.5	293.4	229.8	175.3
5°	1167.4	1005.7	856.7	726.8	616.0	524.2	442.4	367.0	297.1	232.6	175.3
2.5°	1177.4	1013.9	863.1	732.2	619.6	524.2	442.4	367.0	297.1	232.6	175.3
0°	1177.4	1013.9	863.1	732.2	619.6	524.2	442.4	367.0	297.1	232.6	175.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.5	3.6	1.8	0.0
85°	10.0	6.4	3.6	0.0
82.5°	14.5	10.0	4.5	0.0
80°	19.1	12.7	6.4	0.0
77.5°	24.5	16.4	8.2	0.0
75°	29.1	19.1	10.0	0.0
72.5°	33.6	22.7	10.9	0.0
70°	38.2	25.4	12.7	0.0
67.5°	43.6	28.2	14.5	0.0
65°	48.2	31.8	15.4	0.0
62.5°	52.7	34.5	17.3	0.0
60°	57.2	37.2	18.2	0.0
57.5°	61.8	40.0	20.0	0.0
55°	66.3	43.6	21.8	0.0
52.5°	70.9	46.3	22.7	0.0
50°	75.4	49.1	23.6	0.0
47.5°	79.0	51.8	25.4	0.0
45°	83.6	54.5	26.3	0.0
42.5°	88.1	56.3	27.3	0.0
40°	91.8	59.1	28.2	0.0
37.5°	96.3	60.9	30.0	0.0
35°	99.9	63.6	30.9	0.0
32.5°	102.7	65.4	31.8	0.0
30°	106.3	67.2	32.7	0.0
27.5°	109.0	69.0	32.7	0.0
25°	111.7	70.9	33.6	0.0
22.5°	114.5	71.8	34.5	0.0
20°	117.2	73.6	35.4	0.0
17.5°	119.0	74.5	35.4	0.0
15°	120.8	75.4	37.2	0.0
12.5°	121.7	76.3	37.2	0.0
10°	123.6	78.1	37.2	0.0
7.5°	125.4	78.1	37.2	0.0
5°	125.4	78.1	37.2	0.0
2.5°	125.4	78.1	37.2	0.0
0°	125.4	78.1	37.2	0.0

(END OF REPORT)