

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: P624503

Luminaire Tested: **IFLD-S-SA3D-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624503
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

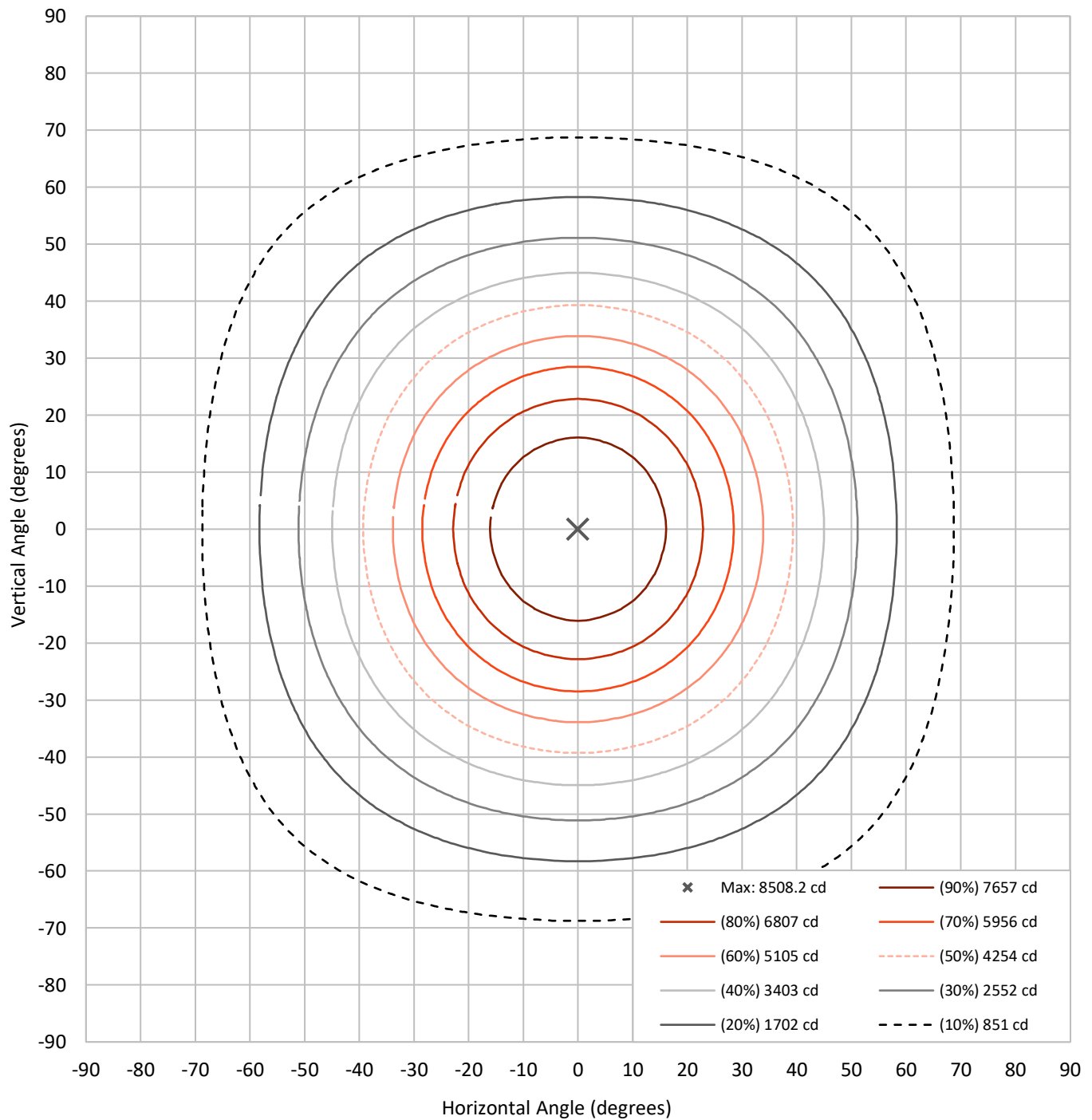
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15319.2 lumens	Max Intensity:	8508.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	83.2 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:	6628.5 lumens	Field Lumens:	10853.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
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		



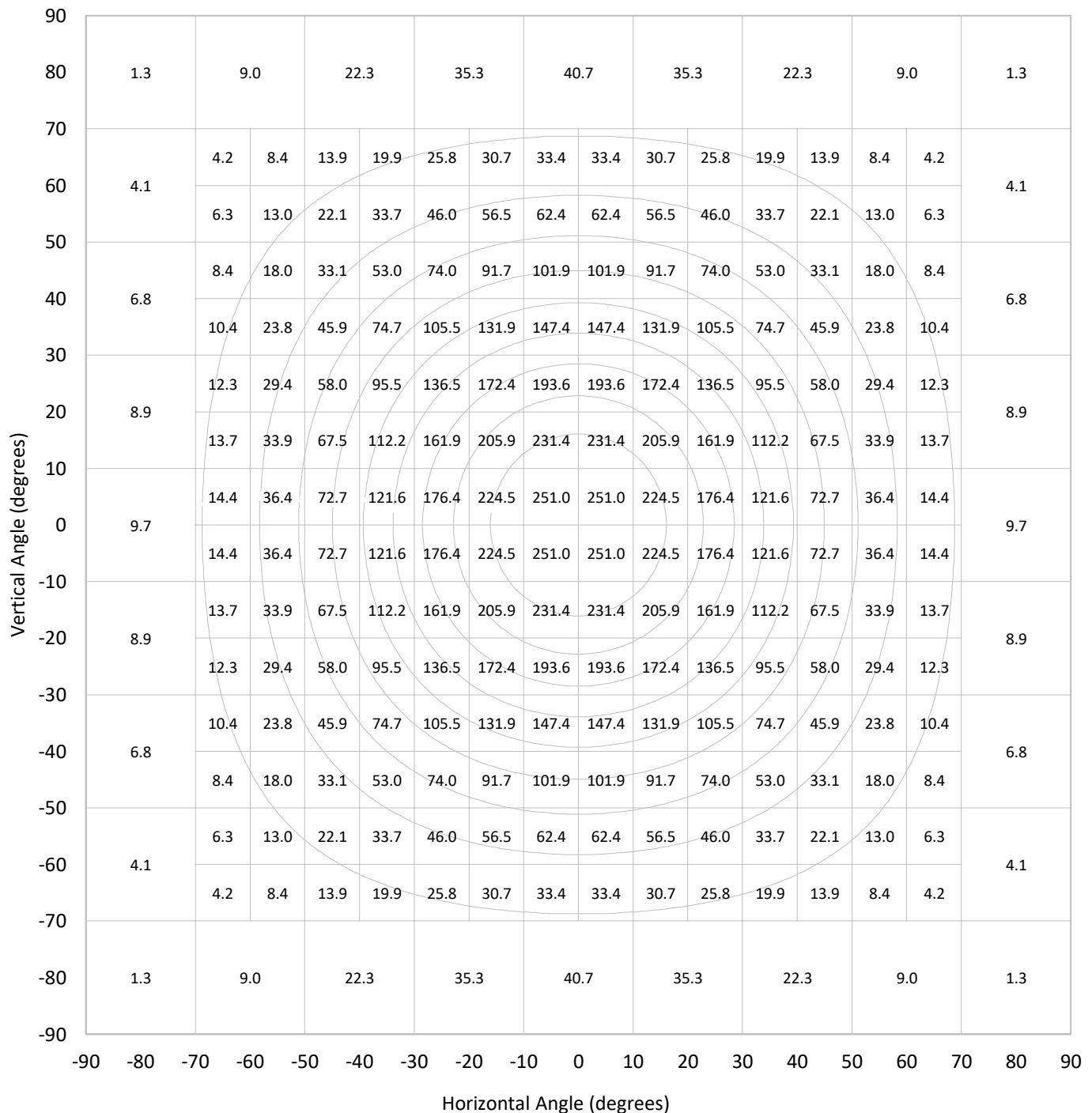
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Iso-Candela Plot



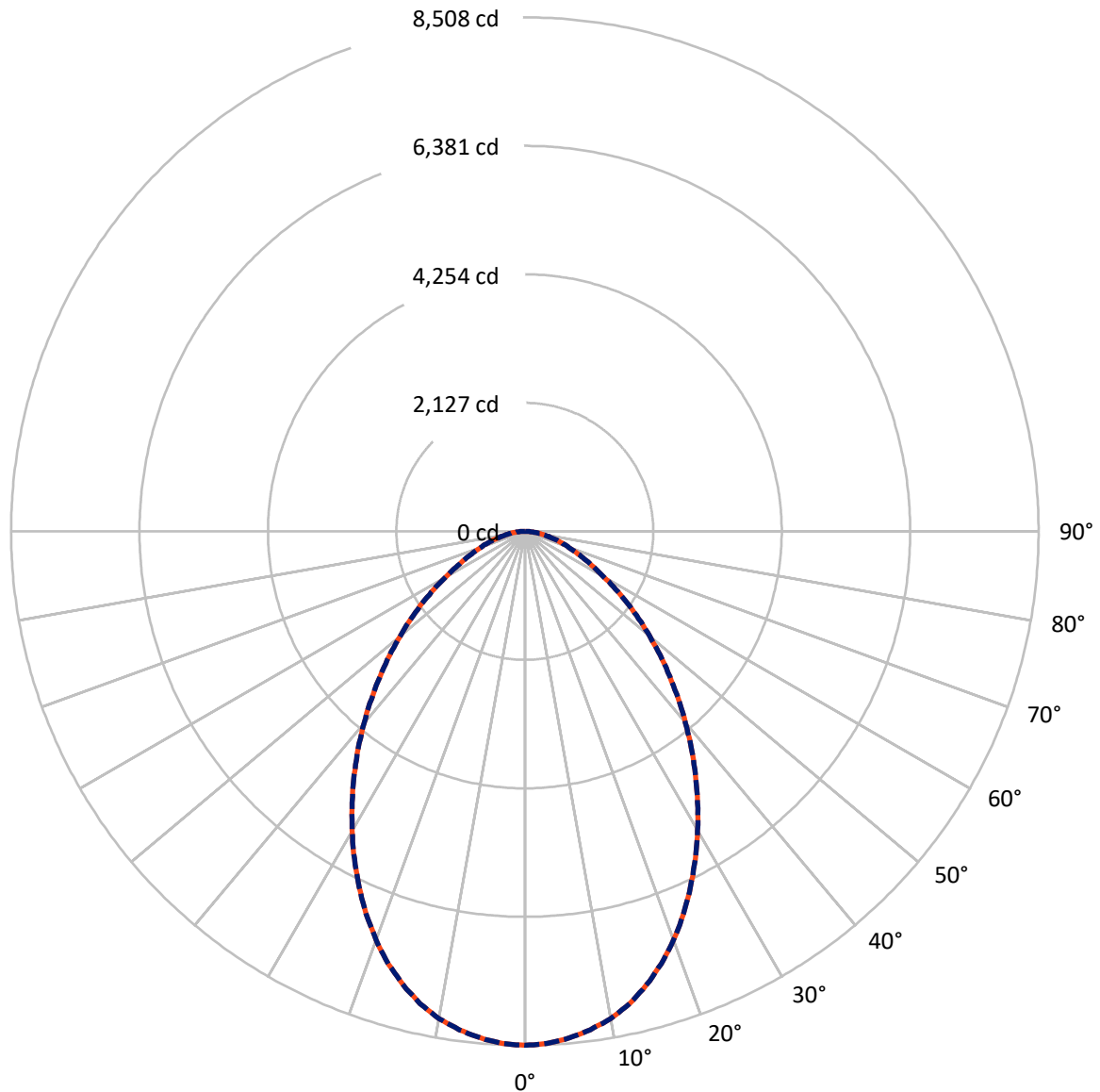
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Lumen Table



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Luminous Intensity Polar Plot

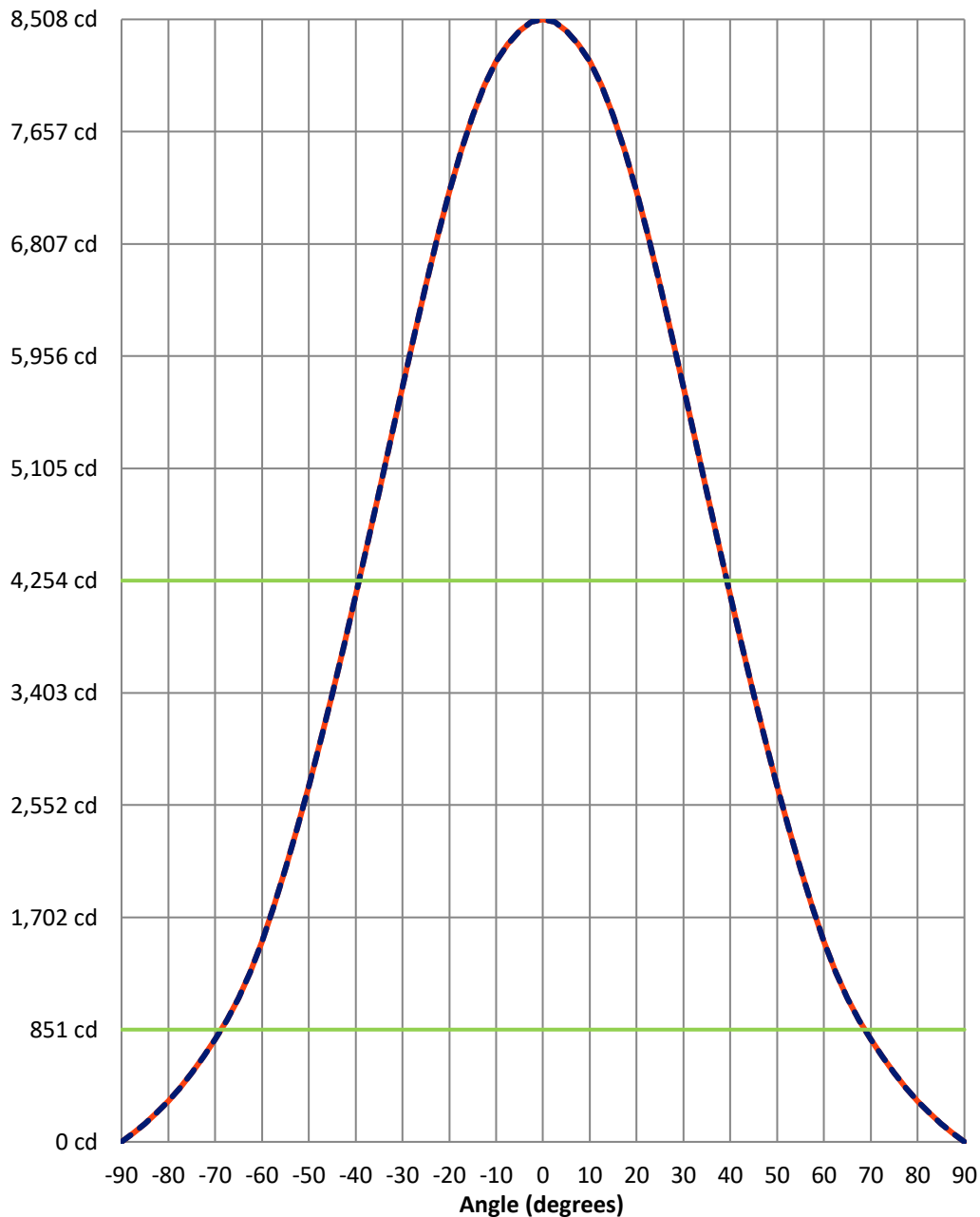


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 6628.5
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 10853.9
Efficiency: 70.9%

Spill:

Lumens: 4465.3
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°	65.5	65.5	65.5	65.5	65.5	65.5	65.5	62.3	62.3	60.7	59.1
85°	137.4	137.4	137.4	137.4	137.4	134.2	132.6	131.0	129.4	126.2	124.6
82.5°	220.4	220.4	220.4	220.4	217.2	214.0	212.4	209.2	206.0	201.2	196.5
80°	308.3	308.3	308.3	308.3	303.5	300.3	295.5	292.3	287.5	281.1	274.7
77.5°	408.9	408.9	408.9	404.1	400.9	396.1	391.3	384.9	378.5	370.5	361.0
75°	522.3	522.3	522.3	515.9	511.1	506.3	498.3	490.3	480.8	469.6	456.8
72.5°	645.3	645.3	645.3	637.3	632.5	624.5	614.9	603.7	592.6	578.2	562.2
70°	777.8	777.8	777.8	768.2	760.3	752.3	739.5	726.7	710.7	694.8	675.6
67.5°	921.6	921.6	921.6	910.4	900.8	889.6	875.3	859.3	840.1	817.8	795.4
65°	1089.3	1089.3	1082.9	1073.3	1062.1	1046.2	1028.6	1006.2	982.3	953.5	923.2
62.5°	1287.3	1287.3	1277.7	1266.6	1252.2	1231.4	1207.5	1178.7	1145.2	1108.4	1071.7
60°	1517.3	1517.3	1506.1	1491.8	1471.0	1445.5	1413.5	1376.8	1335.2	1288.9	1244.2
57.5°	1782.5	1782.5	1768.1	1748.9	1723.4	1691.4	1651.5	1605.2	1552.5	1495.0	1439.1
55°	2069.9	2069.9	2052.4	2030.0	1999.7	1961.3	1913.4	1859.1	1795.2	1729.7	1657.9
52.5°	2375.0	2375.0	2354.2	2328.7	2293.6	2248.8	2194.5	2130.6	2057.2	1980.5	1895.9
50°	2696.0	2696.0	2672.1	2643.3	2603.4	2550.7	2488.4	2414.9	2333.5	2244.0	2146.6
47.5°	3039.4	3039.4	3012.3	2978.7	2930.8	2870.1	2796.7	2712.0	2619.4	2518.8	2408.6
45°	3392.4	3392.4	3362.1	3323.7	3271.0	3202.4	3120.9	3039.4	2921.2	2804.7	2676.9
42.5°	3759.8	3759.8	3724.6	3681.5	3620.8	3545.7	3453.1	3347.7	3231.1	3100.1	2961.2
40°	4141.5	4141.5	4101.6	4052.1	3985.0	3898.7	3794.9	3676.7	3545.7	3400.4	3247.1
37.5°	4531.2	4531.2	4486.5	4432.2	4357.1	4261.3	4144.7	4013.7	3866.8	3705.5	3536.2
35°	4924.1	4924.1	4874.6	4815.5	4732.5	4627.0	4500.9	4355.5	4192.6	4016.9	3826.8
32.5°	5325.0	5325.0	5270.7	5203.6	5109.4	4992.8	4853.8	4695.7	4531.2	4326.8	4119.1
30°	5721.1	5721.1	5662.0	5588.5	5487.9	5360.1	5208.4	5034.3	4841.1	4631.8	4408.2
27.5°	6110.8	6094.8	6045.3	5967.1	5856.9	5721.1	5556.6	5368.1	5158.9	4928.9	4689.3
25°	6494.1	6476.6	6422.3	6336.0	6217.8	6069.3	5892.0	5690.8	5465.6	5222.8	4960.8
22.5°	6861.5	6842.3	6784.8	6692.2	6566.0	6404.7	6214.6	5999.0	5759.4	5499.1	5222.8
20°	7201.7	7180.9	7121.8	7024.4	6893.4	6722.5	6521.3	6289.7	6034.2	5759.4	5465.6
17.5°	7508.4	7487.6	7425.3	7324.7	7201.7	7011.6	6804.0	6559.6	6289.7	5999.0	5690.8
15°	7778.3	7755.9	7692.0	7591.4	7450.9	7272.0	7053.2	6804.0	6521.3	6214.6	5892.0
12.5°	8008.3	7985.9	7920.4	7819.8	7674.5	7495.6	7272.0	7011.6	6722.5	6404.7	6069.3
10°	8190.4	8168.0	8105.7	8009.9	7859.7	7674.5	7450.9	7201.7	6893.4	6566.0	6217.8
7.5°	8321.3	8300.6	8243.1	8147.2	8009.9	7819.8	7591.4	7324.7	7024.4	6692.2	6336.0
5°	8420.3	8396.4	8338.9	8243.1	8105.7	7920.4	7692.0	7425.3	7121.8	6784.8	6422.3
2.5°	8489.0	8460.3	8396.4	8300.6	8168.0	7985.9	7755.9	7487.6	7180.9	6842.3	6476.6
0°	8508.2	8489.0	8420.3	8321.3	8190.4	8008.3	7778.3	7508.4	7201.7	6861.5	6494.1

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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°	57.5	57.5	55.9	54.3	52.7	49.5	47.9	46.3	44.7	41.5	39.9
85°	121.4	118.2	115.0	111.8	107.0	103.8	99.0	95.8	91.0	86.2	81.5
82.5°	191.7	186.9	180.5	175.7	169.3	161.3	154.9	146.9	139.0	132.6	124.6
80°	268.3	260.3	252.4	244.4	234.8	225.2	215.6	206.0	194.9	183.7	172.5
77.5°	351.4	340.2	329.0	316.2	305.1	292.3	279.5	266.7	252.4	238.0	223.6
75°	444.0	429.6	413.7	397.7	383.3	365.8	348.2	330.6	311.5	293.9	274.7
72.5°	544.6	527.1	507.9	488.7	468.0	445.6	423.3	399.3	376.9	354.6	330.6
70°	653.2	632.5	608.5	584.6	559.0	531.9	504.7	476.0	447.2	418.5	389.7
67.5°	769.8	744.3	715.5	686.8	654.8	622.9	591.0	557.4	522.3	487.1	453.6
65°	894.4	862.5	828.9	792.2	755.5	718.7	680.4	640.5	600.5	559.0	522.3
62.5°	1033.4	993.4	950.3	905.6	864.1	819.4	777.8	728.3	680.4	634.1	587.8
60°	1194.7	1142.0	1089.3	1033.4	980.7	923.2	872.1	817.8	763.5	710.7	656.4
57.5°	1375.2	1308.1	1244.2	1177.1	1106.8	1043.0	977.5	912.0	851.3	789.0	729.9
55°	1579.6	1498.2	1418.3	1335.2	1253.8	1173.9	1090.9	1017.4	942.3	872.1	803.4
52.5°	1803.2	1710.6	1611.6	1517.3	1413.5	1314.5	1221.8	1129.2	1041.4	956.7	878.5
50°	2042.8	1934.2	1820.8	1705.8	1587.6	1471.0	1359.2	1250.6	1148.4	1049.3	956.7
47.5°	2292.0	2169.0	2039.6	1908.6	1782.5	1640.3	1506.1	1383.2	1260.2	1148.4	1041.4
45°	2547.5	2408.6	2266.4	2117.9	1969.3	1816.0	1667.5	1517.3	1383.2	1250.6	1129.2
42.5°	2811.0	2654.5	2496.4	2331.9	2167.4	1999.7	1832.0	1667.5	1506.1	1359.2	1221.8
40°	3082.6	2910.1	2729.6	2550.7	2375.0	2183.3	1999.7	1816.0	1640.3	1471.0	1314.5
37.5°	3354.1	3165.6	2970.8	2769.5	2568.3	2375.0	2167.4	1969.3	1782.5	1587.6	1413.5
35°	3627.2	3419.6	3208.7	2989.9	2769.5	2550.7	2331.9	2117.9	1908.6	1705.8	1517.3
32.5°	3901.9	3675.1	3441.9	3208.7	2970.8	2729.6	2496.4	2266.4	2039.6	1820.8	1611.6
30°	4171.8	3925.9	3675.1	3419.6	3165.6	2910.1	2654.5	2408.6	2169.0	1934.2	1710.6
27.5°	4435.4	4171.8	3901.9	3627.2	3354.1	3082.6	2811.0	2547.5	2292.0	2042.8	1803.2
25°	4689.3	4408.2	4119.1	3826.8	3536.2	3247.1	2961.2	2676.9	2408.6	2146.6	1895.9
22.5°	4928.9	4631.8	4326.8	4016.9	3705.5	3400.4	3100.1	2804.7	2518.8	2244.0	1980.5
20°	5158.9	4841.1	4531.2	4192.6	3866.8	3545.7	3231.1	2921.2	2619.4	2333.5	2057.2
17.5°	5368.1	5034.3	4695.7	4355.5	4013.7	3676.7	3347.7	3039.4	2712.0	2414.9	2130.6
15°	5556.6	5208.4	4853.8	4500.9	4144.7	3794.9	3453.1	3120.9	2796.7	2488.4	2194.5
12.5°	5721.1	5360.1	4992.8	4627.0	4261.3	3898.7	3545.7	3202.4	2870.1	2550.7	2248.8
10°	5856.9	5487.9	5109.4	4732.5	4357.1	3985.0	3620.8	3271.0	2930.8	2603.4	2293.6
7.5°	5967.1	5588.5	5203.6	4815.5	4432.2	4052.1	3681.5	3323.7	2978.7	2643.3	2328.7
5°	6045.3	5662.0	5270.7	4874.6	4486.5	4101.6	3724.6	3362.1	3012.3	2672.1	2354.2
2.5°	6094.8	5721.1	5325.0	4924.1	4531.2	4141.5	3759.8	3392.4	3039.4	2696.0	2375.0
0°	6110.8	5721.1	5325.0	4924.1	4531.2	4141.5	3759.8	3392.4	3039.4	2696.0	2375.0

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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°	38.3	35.1	31.9	30.3	27.2	25.6	22.4	19.2	17.6	14.4	11.2
85°	76.7	70.3	65.5	60.7	55.9	49.5	44.7	39.9	33.5	28.7	22.4
82.5°	116.6	108.6	100.6	92.6	84.7	76.7	67.1	59.1	51.1	43.1	33.5
80°	161.3	148.5	137.4	126.2	115.0	103.8	91.0	79.9	67.1	55.9	44.7
77.5°	207.6	193.3	177.3	161.3	145.3	131.0	115.0	100.6	86.2	70.3	55.9
75°	257.1	238.0	220.4	199.6	180.5	159.7	140.6	121.4	103.8	86.2	67.1
72.5°	308.3	284.3	260.3	238.0	214.0	190.1	167.7	143.7	121.4	100.6	79.9
70°	361.0	332.2	303.5	276.3	249.2	220.4	194.9	167.7	140.6	115.0	91.0
67.5°	416.9	383.3	349.8	314.6	284.3	252.4	220.4	190.1	159.7	131.0	103.8
65°	477.6	437.6	396.1	359.4	319.4	284.3	249.2	214.0	180.5	145.3	115.0
62.5°	539.8	493.5	447.2	400.9	359.4	314.6	276.3	238.0	199.6	161.3	126.2
60°	603.7	551.0	498.3	447.2	396.1	349.8	303.5	260.3	220.4	177.3	137.4
57.5°	669.2	610.1	551.0	493.5	437.6	383.3	332.2	284.3	238.0	193.3	148.5
55°	736.3	669.2	603.7	539.8	477.6	416.9	361.0	308.3	257.1	207.6	161.3
52.5°	803.4	729.9	656.4	587.8	522.3	453.6	389.7	330.6	274.7	223.6	172.5
50°	872.1	789.0	710.7	634.1	559.0	487.1	418.5	354.6	293.9	238.0	183.7
47.5°	942.3	851.3	763.5	680.4	600.5	522.3	447.2	376.9	311.5	252.4	194.9
45°	1017.4	912.0	817.8	728.3	640.5	557.4	476.0	399.3	330.6	266.7	206.0
42.5°	1090.9	977.5	872.1	777.8	680.4	591.0	504.7	423.3	348.2	279.5	215.6
40°	1173.9	1043.0	923.2	819.4	718.7	622.9	531.9	445.6	365.8	292.3	225.2
37.5°	1253.8	1106.8	980.7	864.1	755.5	654.8	559.0	468.0	383.3	305.1	234.8
35°	1335.2	1177.1	1033.4	905.6	792.2	686.8	584.6	488.7	397.7	316.2	244.4
32.5°	1418.3	1244.2	1089.3	950.3	828.9	715.5	608.5	507.9	413.7	329.0	252.4
30°	1498.2	1308.1	1142.0	993.4	862.5	744.3	632.5	527.1	429.6	340.2	260.3
27.5°	1579.6	1375.2	1194.7	1033.4	894.4	769.8	653.2	544.6	444.0	351.4	268.3
25°	1657.9	1439.1	1244.2	1071.7	923.2	795.4	675.6	562.2	456.8	361.0	274.7
22.5°	1729.7	1495.0	1288.9	1108.4	953.5	817.8	694.8	578.2	469.6	370.5	281.1
20°	1795.2	1552.5	1335.2	1145.2	982.3	840.1	710.7	592.6	480.8	378.5	287.5
17.5°	1859.1	1605.2	1376.8	1178.7	1006.2	859.3	726.7	603.7	490.3	384.9	292.3
15°	1913.4	1651.5	1413.5	1207.5	1028.6	875.3	739.5	614.9	498.3	391.3	295.5
12.5°	1961.3	1691.4	1445.5	1231.4	1046.2	889.6	752.3	624.5	506.3	396.1	300.3
10°	1999.7	1723.4	1471.0	1252.2	1062.1	900.8	760.3	632.5	511.1	400.9	303.5
7.5°	2030.0	1748.9	1491.8	1266.6	1073.3	910.4	768.2	637.3	515.9	404.1	308.3
5°	2052.4	1768.1	1506.1	1277.7	1082.9	921.6	777.8	645.3	522.3	408.9	308.3
2.5°	2069.9	1782.5	1517.3	1287.3	1089.3	921.6	777.8	645.3	522.3	408.9	308.3
0°	2069.9	1782.5	1517.3	1287.3	1089.3	921.6	777.8	645.3	522.3	408.9	308.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.0	6.4	3.2	0.0
85°	17.6	11.2	6.4	0.0
82.5°	25.6	17.6	8.0	0.0
80°	33.5	22.4	11.2	0.0
77.5°	43.1	28.7	14.4	0.0
75°	51.1	33.5	17.6	0.0
72.5°	59.1	39.9	19.2	0.0
70°	67.1	44.7	22.4	0.0
67.5°	76.7	49.5	25.6	0.0
65°	84.7	55.9	27.2	0.0
62.5°	92.6	60.7	30.3	0.0
60°	100.6	65.5	31.9	0.0
57.5°	108.6	70.3	35.1	0.0
55°	116.6	76.7	38.3	0.0
52.5°	124.6	81.5	39.9	0.0
50°	132.6	86.2	41.5	0.0
47.5°	139.0	91.0	44.7	0.0
45°	146.9	95.8	46.3	0.0
42.5°	154.9	99.0	47.9	0.0
40°	161.3	103.8	49.5	0.0
37.5°	169.3	107.0	52.7	0.0
35°	175.7	111.8	54.3	0.0
32.5°	180.5	115.0	55.9	0.0
30°	186.9	118.2	57.5	0.0
27.5°	191.7	121.4	57.5	0.0
25°	196.5	124.6	59.1	0.0
22.5°	201.2	126.2	60.7	0.0
20°	206.0	129.4	62.3	0.0
17.5°	209.2	131.0	62.3	0.0
15°	212.4	132.6	65.5	0.0
12.5°	214.0	134.2	65.5	0.0
10°	217.2	137.4	65.5	0.0
7.5°	220.4	137.4	65.5	0.0
5°	220.4	137.4	65.5	0.0
2.5°	220.4	137.4	65.5	0.0
0°	220.4	137.4	65.5	0.0

(END OF REPORT)