

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: P624575

Luminaire Tested: **IFLD-L-SA7C-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624575
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

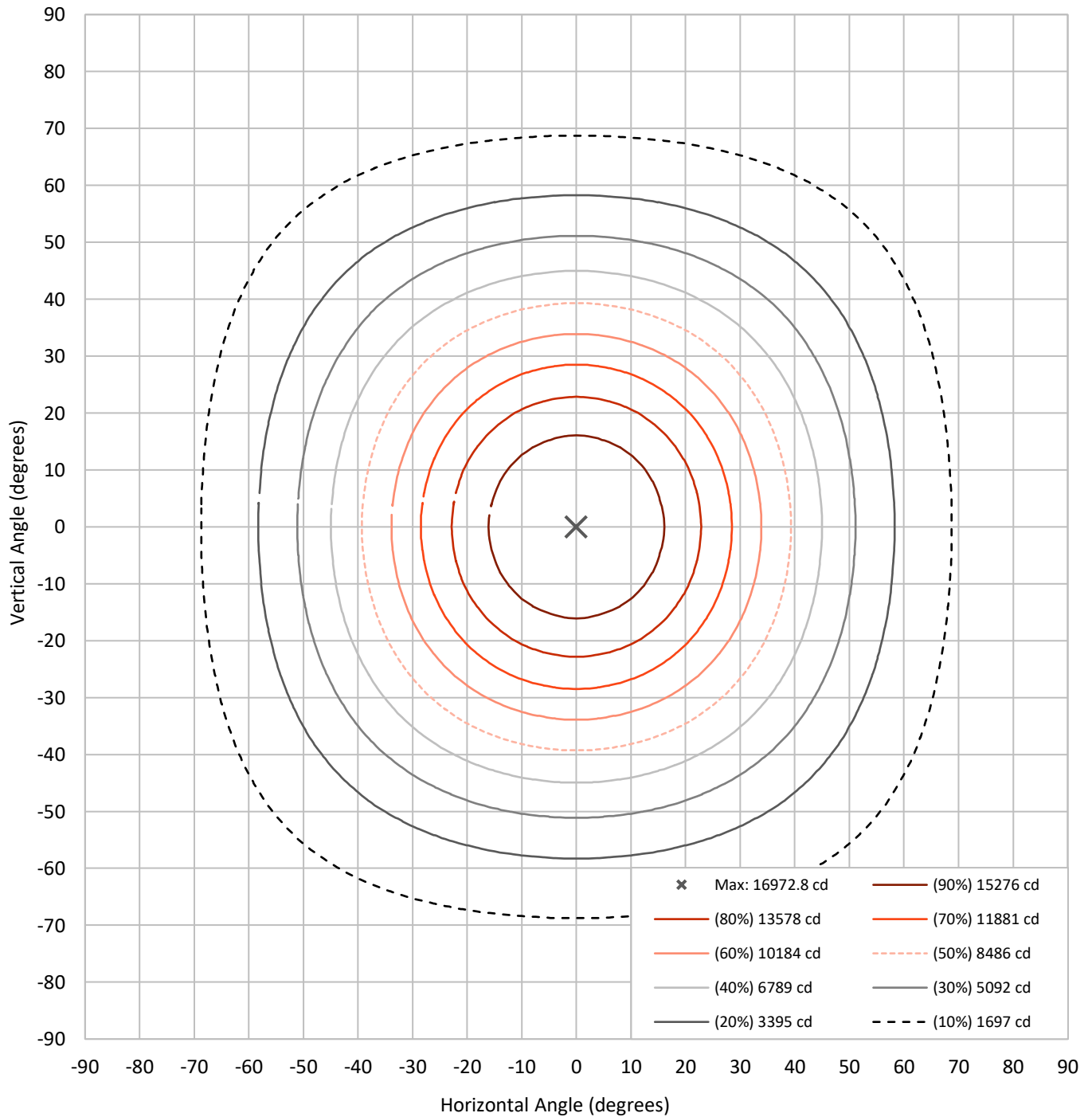
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	30559.8 lumens	Max Intensity:	16972.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	82.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	13222.9 lumens	Field Lumens:	21652.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

Input Watts (W): 369
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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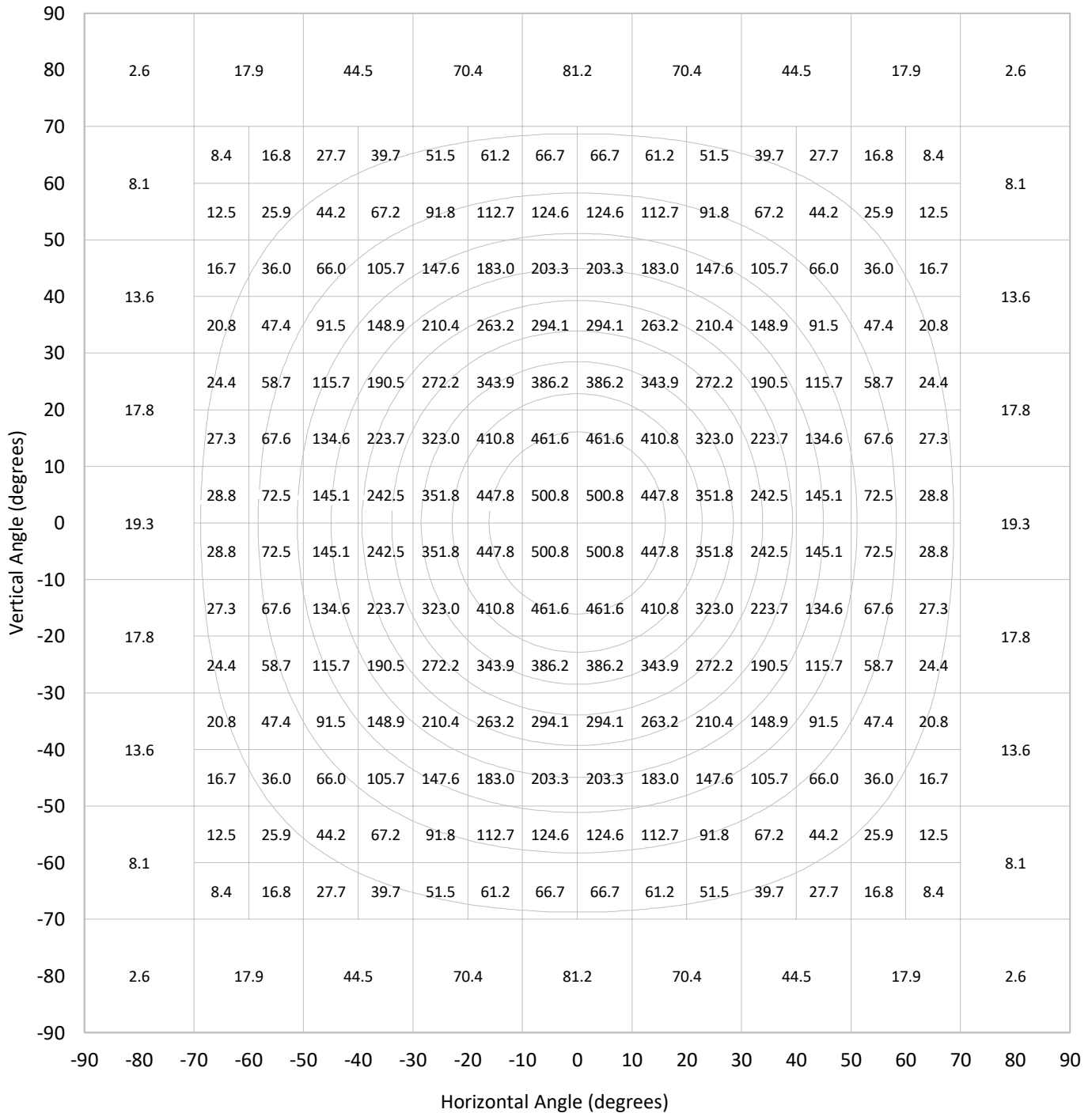
Iso-Candela Plot





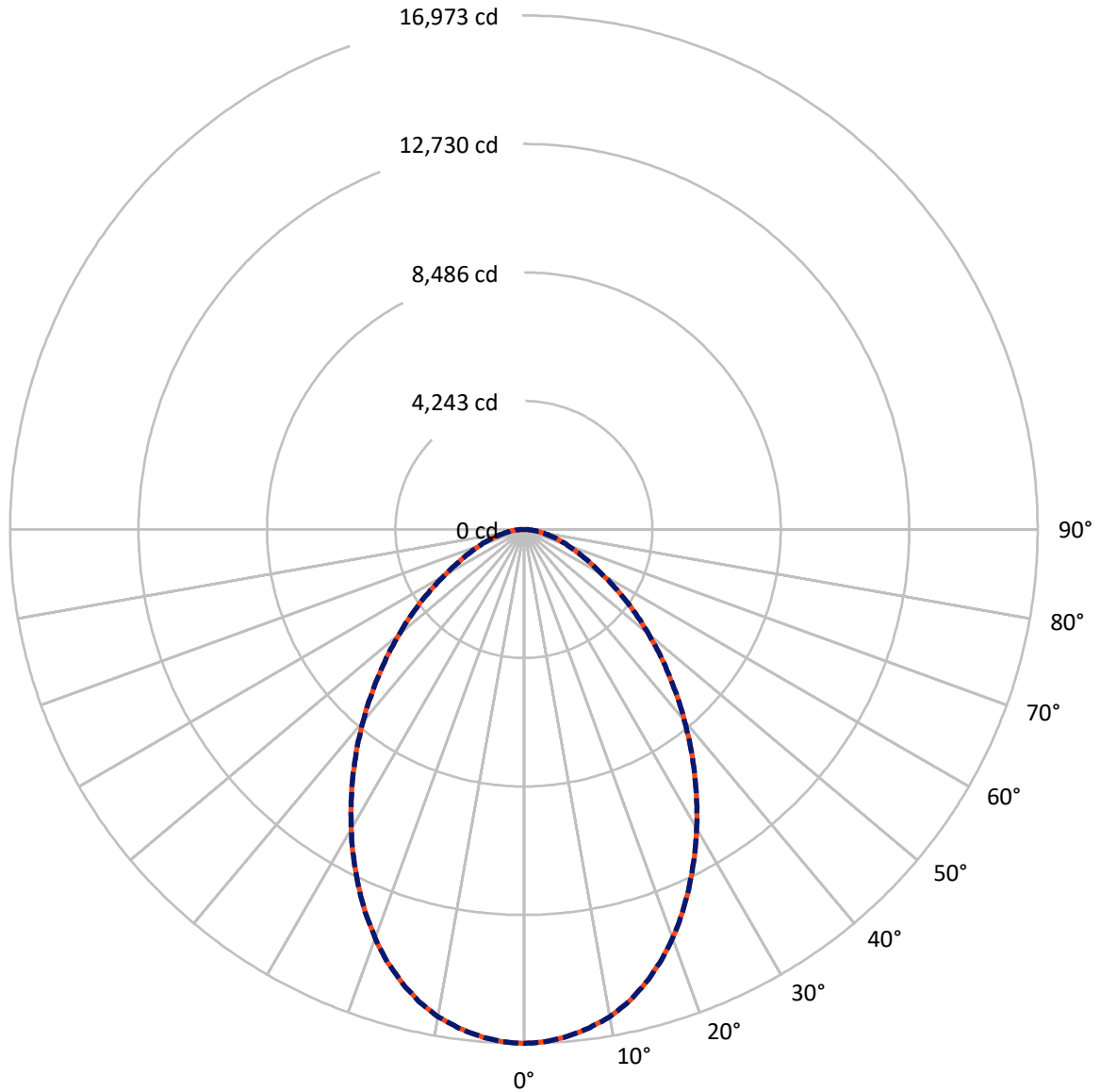
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Lumen Table



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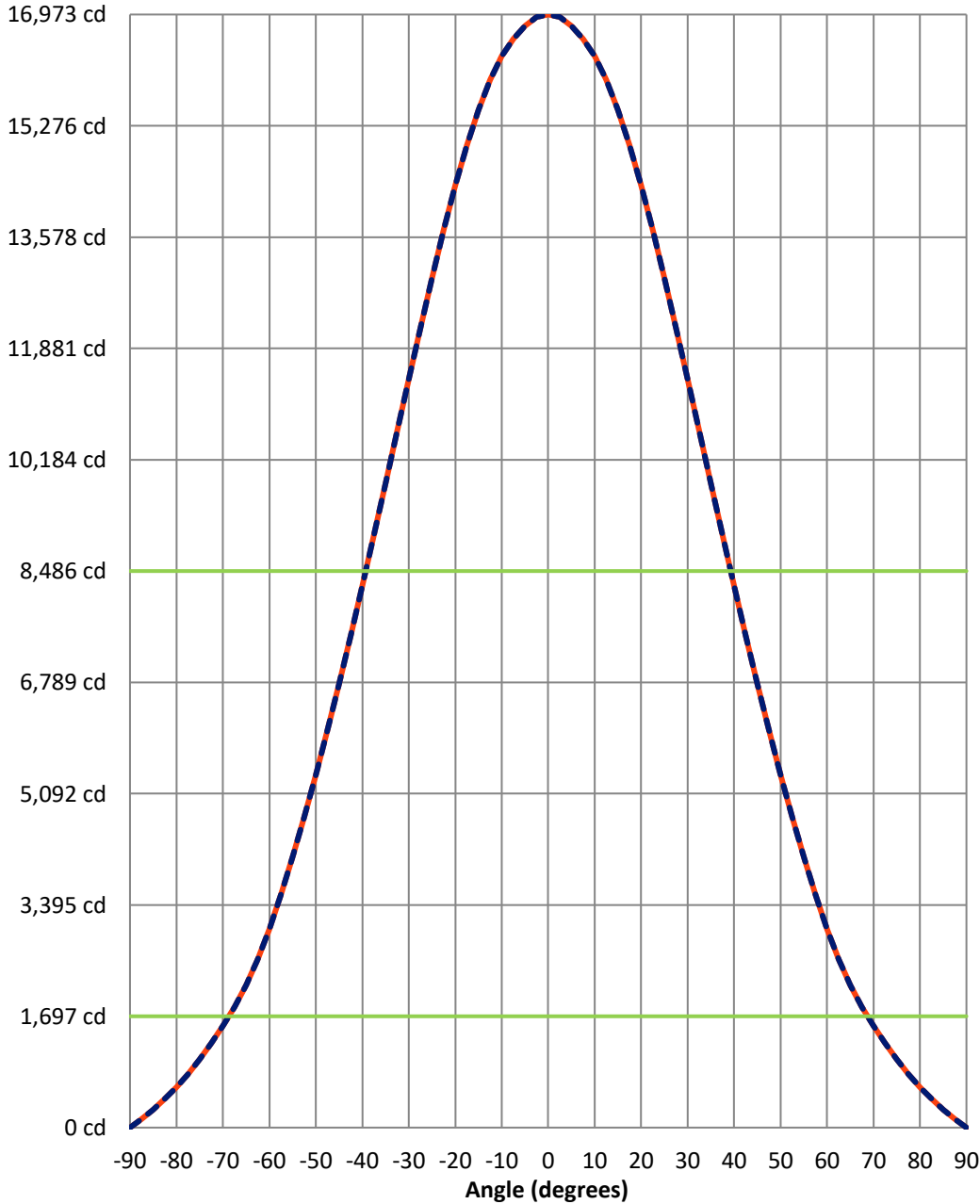
Luminous Intensity Polar Plot



— 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: 13222.9
 Efficiency: 43.3%

Field:
 H Angle: 137.5°
 V Angle: 137.5°
 Lumens: 21652.1
 Efficiency: 70.9%

Spill:
 Lumens: 8907.7
 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°	130.6	130.6	130.6	130.6	130.6	130.6	130.6	124.3	124.3	121.1	117.9
85°	274.0	274.0	274.0	274.0	274.0	267.6	264.5	261.3	258.1	251.7	248.5
82.5°	439.7	439.7	439.7	439.7	433.3	426.9	423.8	417.4	411.0	401.5	391.9
80°	614.9	614.9	614.9	614.9	605.4	599.0	589.4	583.1	573.5	560.8	548.0
77.5°	815.7	815.7	815.7	806.1	799.7	790.2	780.6	767.9	755.1	739.2	720.1
75°	1041.9	1041.9	1041.9	1029.1	1019.6	1010.0	994.1	978.2	959.0	936.7	911.2
72.5°	1287.2	1287.2	1287.2	1271.3	1261.7	1245.8	1226.7	1204.4	1182.1	1153.4	1121.5
70°	1551.7	1551.7	1551.7	1532.6	1516.6	1500.7	1475.2	1449.7	1417.8	1386.0	1347.8
67.5°	1838.4	1838.4	1838.4	1816.1	1797.0	1774.7	1746.0	1714.2	1675.9	1631.3	1586.7
65°	2173.0	2173.0	2160.2	2141.1	2118.8	2086.9	2051.9	2007.3	1959.5	1902.1	1841.6
62.5°	2568.1	2568.1	2548.9	2526.6	2498.0	2456.5	2408.7	2351.4	2284.5	2211.2	2137.9
60°	3026.9	3026.9	3004.6	2975.9	2934.5	2883.5	2819.8	2746.5	2663.6	2571.2	2482.0
57.5°	3555.8	3555.8	3527.1	3488.9	3437.9	3374.2	3294.5	3202.1	3097.0	2982.3	2870.7
55°	4129.3	4129.3	4094.2	4049.6	3989.1	3912.6	3817.0	3708.7	3581.3	3450.6	3307.3
52.5°	4737.8	4737.8	4696.4	4645.4	4575.3	4486.1	4377.8	4250.4	4103.8	3950.9	3782.0
50°	5378.3	5378.3	5330.5	5273.1	5193.5	5088.3	4964.1	4817.5	4655.0	4476.6	4282.2
47.5°	6063.3	6063.3	6009.1	5942.2	5846.6	5725.6	5579.0	5410.1	5225.3	5024.6	4804.8
45°	6767.4	6767.4	6706.9	6630.4	6525.3	6388.3	6225.8	6063.3	5827.5	5594.9	5340.0
42.5°	7500.3	7500.3	7430.2	7344.1	7223.1	7073.3	6888.5	6678.2	6445.6	6184.4	5907.2
40°	8261.8	8261.8	8182.1	8083.3	7949.5	7777.5	7570.4	7334.6	7073.3	6783.4	6477.5
37.5°	9039.2	9039.2	8950.0	8841.6	8691.9	8500.7	8268.1	8006.9	7713.7	7391.9	7054.2
35°	9823.0	9823.0	9724.2	9606.3	9440.6	9230.4	8978.6	8688.7	8363.7	8013.2	7634.1
32.5°	10622.7	10622.7	10514.4	10380.6	10192.6	9960.0	9682.8	9367.4	9039.2	8631.4	8217.1
30°	11412.9	11412.9	11295.0	11148.4	10947.7	10692.8	10390.1	10042.8	9657.3	9239.9	8793.8
27.5°	12190.3	12158.5	12059.7	11903.6	11683.7	11412.9	11084.7	10708.7	10291.4	9832.5	9354.6
25°	12955.0	12919.9	12811.6	12639.6	12403.8	12107.5	11753.8	11352.3	10903.1	10418.8	9896.3
22.5°	13687.8	13649.6	13534.9	13350.1	13098.4	12776.6	12397.4	11967.3	11489.4	10970.0	10418.8
20°	14366.5	14325.1	14207.2	14012.8	13751.5	13410.6	13009.2	12547.2	12037.4	11489.4	10903.1
17.5°	14978.2	14936.8	14812.5	14611.8	14366.5	13987.3	13573.1	13085.6	12547.2	11967.3	11352.3
15°	15516.7	15472.1	15344.6	15143.9	14863.5	14506.7	14070.2	13573.1	13009.2	12397.4	11753.8
12.5°	15975.5	15930.9	15800.3	15599.5	15309.6	14952.7	14506.7	13987.3	13410.6	12776.6	12107.5
10°	16338.7	16294.1	16169.8	15978.7	15679.2	15309.6	14863.5	14366.5	13751.5	13098.4	12403.8
7.5°	16600.0	16558.6	16443.9	16252.7	15978.7	15599.5	15143.9	14611.8	14012.8	13350.1	12639.6
5°	16797.5	16749.7	16635.0	16443.9	16169.8	15800.3	15344.6	14812.5	14207.2	13534.9	12811.6
2.5°	16934.5	16877.2	16749.7	16558.6	16294.1	15930.9	15472.1	14936.8	14325.1	13649.6	12919.9
0°	16972.8	16934.5	16797.5	16600.0	16338.7	15975.5	15516.7	14978.2	14366.5	13687.8	12955.0



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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°	114.7	114.7	111.5	108.3	105.1	98.8	95.6	92.4	89.2	82.8	79.7
85°	242.1	235.8	229.4	223.0	213.5	207.1	197.5	191.2	181.6	172.1	162.5
82.5°	382.3	372.8	360.0	350.5	337.7	321.8	309.1	293.1	277.2	264.5	248.5
80°	535.3	519.3	503.4	487.5	468.4	449.3	430.1	411.0	388.7	366.4	344.1
77.5°	701.0	678.7	656.4	630.9	608.6	583.1	557.6	532.1	503.4	474.7	446.1
75°	885.8	857.1	825.2	793.4	764.7	729.6	694.6	659.5	621.3	586.3	548.0
72.5°	1086.5	1051.4	1013.2	975.0	933.5	888.9	844.3	796.5	751.9	707.3	659.5
70°	1303.1	1261.7	1213.9	1166.1	1115.2	1061.0	1006.8	949.5	892.1	834.8	777.4
67.5°	1535.7	1484.8	1427.4	1370.1	1306.3	1242.6	1178.9	1112.0	1041.9	971.8	904.9
65°	1784.3	1720.5	1653.6	1580.3	1507.1	1433.8	1357.3	1277.7	1198.0	1115.2	1041.9
62.5°	2061.5	1981.8	1895.8	1806.6	1723.7	1634.5	1551.7	1452.9	1357.3	1264.9	1172.5
60°	2383.3	2278.1	2173.0	2061.5	1956.3	1841.6	1739.7	1631.3	1523.0	1417.8	1309.5
57.5°	2743.3	2609.5	2482.0	2348.2	2208.0	2080.6	1949.9	1819.3	1698.2	1574.0	1456.1
55°	3151.1	2988.6	2829.3	2663.6	2501.1	2341.8	2176.2	2029.6	1879.8	1739.7	1602.6
52.5°	3597.2	3412.4	3214.9	3026.9	2819.8	2622.2	2437.4	2252.6	2077.4	1908.5	1752.4
50°	4075.1	3858.5	3632.2	3402.8	3167.1	2934.5	2711.4	2494.8	2290.9	2093.3	1908.5
47.5°	4572.2	4326.8	4068.7	3807.5	3555.8	3272.2	3004.6	2759.2	2513.9	2290.9	2077.4
45°	5082.0	4804.8	4521.2	4224.9	3928.6	3622.7	3326.4	3026.9	2759.2	2494.8	2252.6
42.5°	5607.7	5295.4	4980.0	4651.8	4323.6	3989.1	3654.5	3326.4	3004.6	2711.4	2437.4
40°	6149.3	5805.2	5445.2	5088.3	4737.8	4355.5	3989.1	3622.7	3272.2	2934.5	2622.2
37.5°	6691.0	6315.0	5926.3	5524.8	5123.4	4737.8	4323.6	3928.6	3555.8	3167.1	2819.8
35°	7235.8	6821.6	6401.0	5964.5	5524.8	5088.3	4651.8	4224.9	3807.5	3402.8	3026.9
32.5°	7783.8	7331.4	6866.2	6401.0	5926.3	5445.2	4980.0	4521.2	4068.7	3632.2	3214.9
30°	8322.3	7831.6	7331.4	6821.6	6315.0	5805.2	5295.4	4804.8	4326.8	3858.5	3412.4
27.5°	8848.0	8322.3	7783.8	7235.8	6691.0	6149.3	5607.7	5082.0	4572.2	4075.1	3597.2
25°	9354.6	8793.8	8217.1	7634.1	7054.2	6477.5	5907.2	5340.0	4804.8	4282.2	3782.0
22.5°	9832.5	9239.9	8631.4	8013.2	7391.9	6783.4	6184.4	5594.9	5024.6	4476.6	3950.9
20°	10291.4	9657.3	9039.2	8363.7	7713.7	7073.3	6445.6	5827.5	5225.3	4655.0	4103.8
17.5°	10708.7	10042.8	9367.4	8688.7	8006.9	7334.6	6678.2	6063.3	5410.1	4817.5	4250.4
15°	11084.7	10390.1	9682.8	8978.6	8268.1	7570.4	6888.5	6225.8	5579.0	4964.1	4377.8
12.5°	11412.9	10692.8	9960.0	9230.4	8500.7	7777.5	7073.3	6388.3	5725.6	5088.3	4486.1
10°	11683.7	10947.7	10192.6	9440.6	8691.9	7949.5	7223.1	6525.3	5846.6	5193.5	4575.3
7.5°	11903.6	11148.4	10380.6	9606.3	8841.6	8083.3	7344.1	6630.4	5942.2	5273.1	4645.4
5°	12059.7	11295.0	10514.4	9724.2	8950.0	8182.1	7430.2	6706.9	6009.1	5330.5	4696.4
2.5°	12158.5	11412.9	10622.7	9823.0	9039.2	8261.8	7500.3	6767.4	6063.3	5378.3	4737.8
0°	12190.3	11412.9	10622.7	9823.0	9039.2	8261.8	7500.3	6767.4	6063.3	5378.3	4737.8



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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°	76.5	70.1	63.7	60.5	54.2	51.0	44.6	38.2	35.0	28.7	22.3
85°	152.9	140.2	130.6	121.1	111.5	98.8	89.2	79.7	66.9	57.4	44.6
82.5°	232.6	216.7	200.7	184.8	168.9	152.9	133.8	117.9	102.0	86.0	66.9
80°	321.8	296.3	274.0	251.7	229.4	207.1	181.6	159.3	133.8	111.5	89.2
77.5°	414.2	385.5	353.7	321.8	289.9	261.3	229.4	200.7	172.1	140.2	111.5
75°	513.0	474.7	439.7	398.3	360.0	318.6	280.4	242.1	207.1	172.1	133.8
72.5°	614.9	567.1	519.3	474.7	426.9	379.2	334.5	286.8	242.1	200.7	159.3
70°	720.1	662.7	605.4	551.2	497.0	439.7	388.7	334.5	280.4	229.4	181.6
67.5°	831.6	764.7	697.8	627.7	567.1	503.4	439.7	379.2	318.6	261.3	207.1
65°	952.7	873.0	790.2	716.9	637.2	567.1	497.0	426.9	360.0	289.9	229.4
62.5°	1076.9	984.5	892.1	799.7	716.9	627.7	551.2	474.7	398.3	321.8	251.7
60°	1204.4	1099.2	994.1	892.1	790.2	697.8	605.4	519.3	439.7	353.7	274.0
57.5°	1335.0	1217.1	1099.2	984.5	873.0	764.7	662.7	567.1	474.7	385.5	296.3
55°	1468.8	1335.0	1204.4	1076.9	952.7	831.6	720.1	614.9	513.0	414.2	321.8
52.5°	1602.6	1456.1	1309.5	1172.5	1041.9	904.9	777.4	659.5	548.0	446.1	344.1
50°	1739.7	1574.0	1417.8	1264.9	1115.2	971.8	834.8	707.3	586.3	474.7	366.4
47.5°	1879.8	1698.2	1523.0	1357.3	1198.0	1041.9	892.1	751.9	621.3	503.4	388.7
45°	2029.6	1819.3	1631.3	1452.9	1277.7	1112.0	949.5	796.5	659.5	532.1	411.0
42.5°	2176.2	1949.9	1739.7	1551.7	1357.3	1178.9	1006.8	844.3	694.6	557.6	430.1
40°	2341.8	2080.6	1841.6	1634.5	1433.8	1242.6	1061.0	888.9	729.6	583.1	449.3
37.5°	2501.1	2208.0	1956.3	1723.7	1507.1	1306.3	1115.2	933.5	764.7	608.6	468.4
35°	2663.6	2348.2	2061.5	1806.6	1580.3	1370.1	1166.1	975.0	793.4	630.9	487.5
32.5°	2829.3	2482.0	2173.0	1895.8	1653.6	1427.4	1213.9	1013.2	825.2	656.4	503.4
30°	2988.6	2609.5	2278.1	1981.8	1720.5	1484.8	1261.7	1051.4	857.1	678.7	519.3
27.5°	3151.1	2743.3	2383.3	2061.5	1784.3	1535.7	1303.1	1086.5	885.8	701.0	535.3
25°	3307.3	2870.7	2482.0	2137.9	1841.6	1586.7	1347.8	1121.5	911.2	720.1	548.0
22.5°	3450.6	2982.3	2571.2	2211.2	1902.1	1631.3	1386.0	1153.4	936.7	739.2	560.8
20°	3581.3	3097.0	2663.6	2284.5	1959.5	1675.9	1417.8	1182.1	959.0	755.1	573.5
17.5°	3708.7	3202.1	2746.5	2351.4	2007.3	1714.2	1449.7	1204.4	978.2	767.9	583.1
15°	3817.0	3294.5	2819.8	2408.7	2051.9	1746.0	1475.2	1226.7	994.1	780.6	589.4
12.5°	3912.6	3374.2	2883.5	2456.5	2086.9	1774.7	1500.7	1245.8	1010.0	790.2	599.0
10°	3989.1	3437.9	2934.5	2498.0	2118.8	1797.0	1516.6	1261.7	1019.6	799.7	605.4
7.5°	4049.6	3488.9	2975.9	2526.6	2141.1	1816.1	1532.6	1271.3	1029.1	806.1	614.9
5°	4094.2	3527.1	3004.6	2548.9	2160.2	1838.4	1551.7	1287.2	1041.9	815.7	614.9
2.5°	4129.3	3555.8	3026.9	2568.1	2173.0	1838.4	1551.7	1287.2	1041.9	815.7	614.9
0°	4129.3	3555.8	3026.9	2568.1	2173.0	1838.4	1551.7	1287.2	1041.9	815.7	614.9



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.9	12.7	6.4	0.0
85°	35.0	22.3	12.7	0.0
82.5°	51.0	35.0	15.9	0.0
80°	66.9	44.6	22.3	0.0
77.5°	86.0	57.4	28.7	0.0
75°	102.0	66.9	35.0	0.0
72.5°	117.9	79.7	38.2	0.0
70°	133.8	89.2	44.6	0.0
67.5°	152.9	98.8	51.0	0.0
65°	168.9	111.5	54.2	0.0
62.5°	184.8	121.1	60.5	0.0
60°	200.7	130.6	63.7	0.0
57.5°	216.7	140.2	70.1	0.0
55°	232.6	152.9	76.5	0.0
52.5°	248.5	162.5	79.7	0.0
50°	264.5	172.1	82.8	0.0
47.5°	277.2	181.6	89.2	0.0
45°	293.1	191.2	92.4	0.0
42.5°	309.1	197.5	95.6	0.0
40°	321.8	207.1	98.8	0.0
37.5°	337.7	213.5	105.1	0.0
35°	350.5	223.0	108.3	0.0
32.5°	360.0	229.4	111.5	0.0
30°	372.8	235.8	114.7	0.0
27.5°	382.3	242.1	114.7	0.0
25°	391.9	248.5	117.9	0.0
22.5°	401.5	251.7	121.1	0.0
20°	411.0	258.1	124.3	0.0
17.5°	417.4	261.3	124.3	0.0
15°	423.8	264.5	130.6	0.0
12.5°	426.9	267.6	130.6	0.0
10°	433.3	274.0	130.6	0.0
7.5°	439.7	274.0	130.6	0.0
5°	439.7	274.0	130.6	0.0
2.5°	439.7	274.0	130.6	0.0
0°	439.7	274.0	130.6	0.0

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