

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P560527

Luminaire Tested: **SDL-PA1-50-727-U-T4W**

Issue Date: 7/26/2021

Test Information

Test Method: LM-79-08
Report Number: P560527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-12)
Test Lab: INNOVATION CENTER
Issue Date: 7/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-50-727-U-T4W
Description: Springdale
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5352 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.4
Input Voltage (V): NR
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: 24 FT

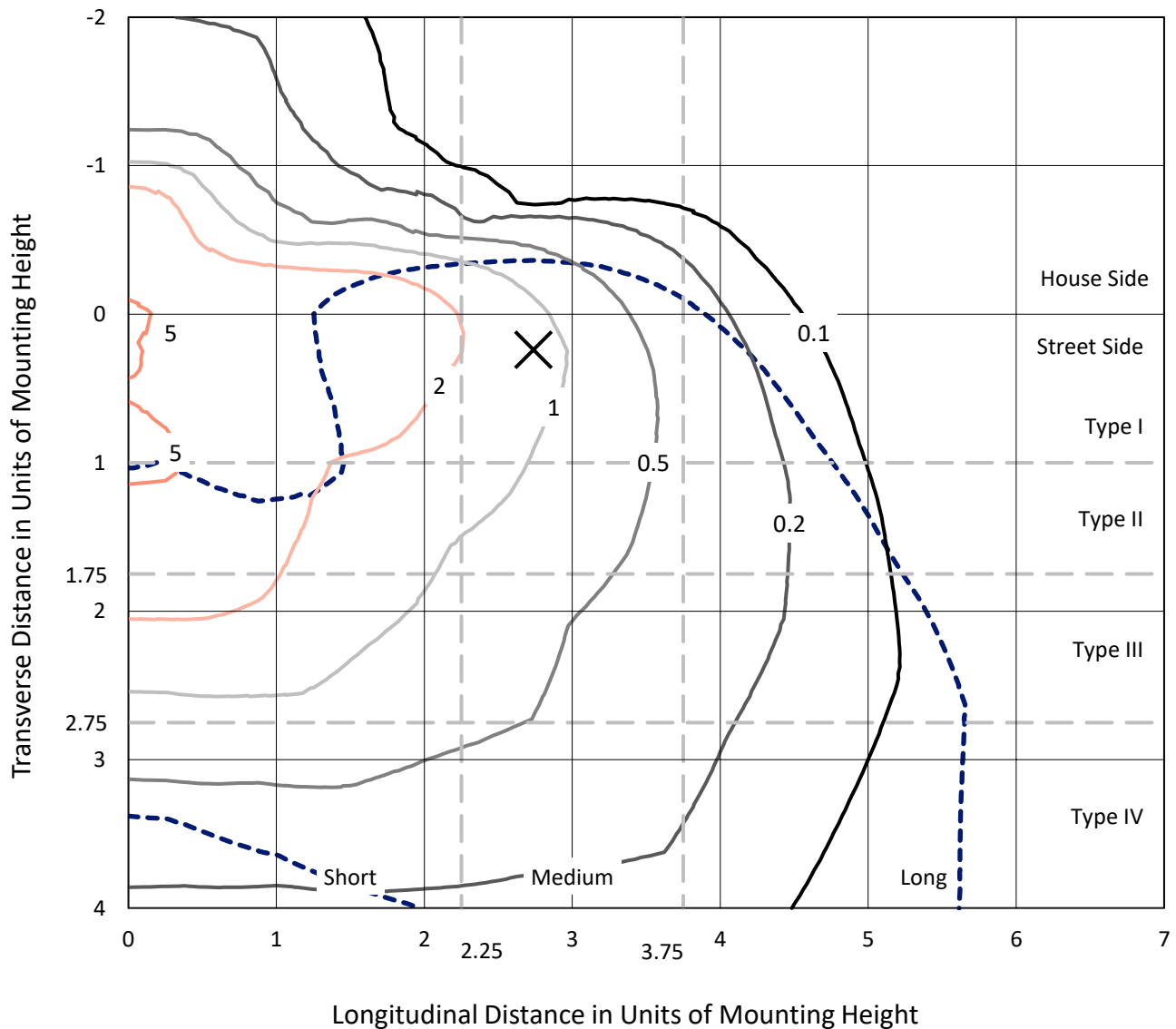


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

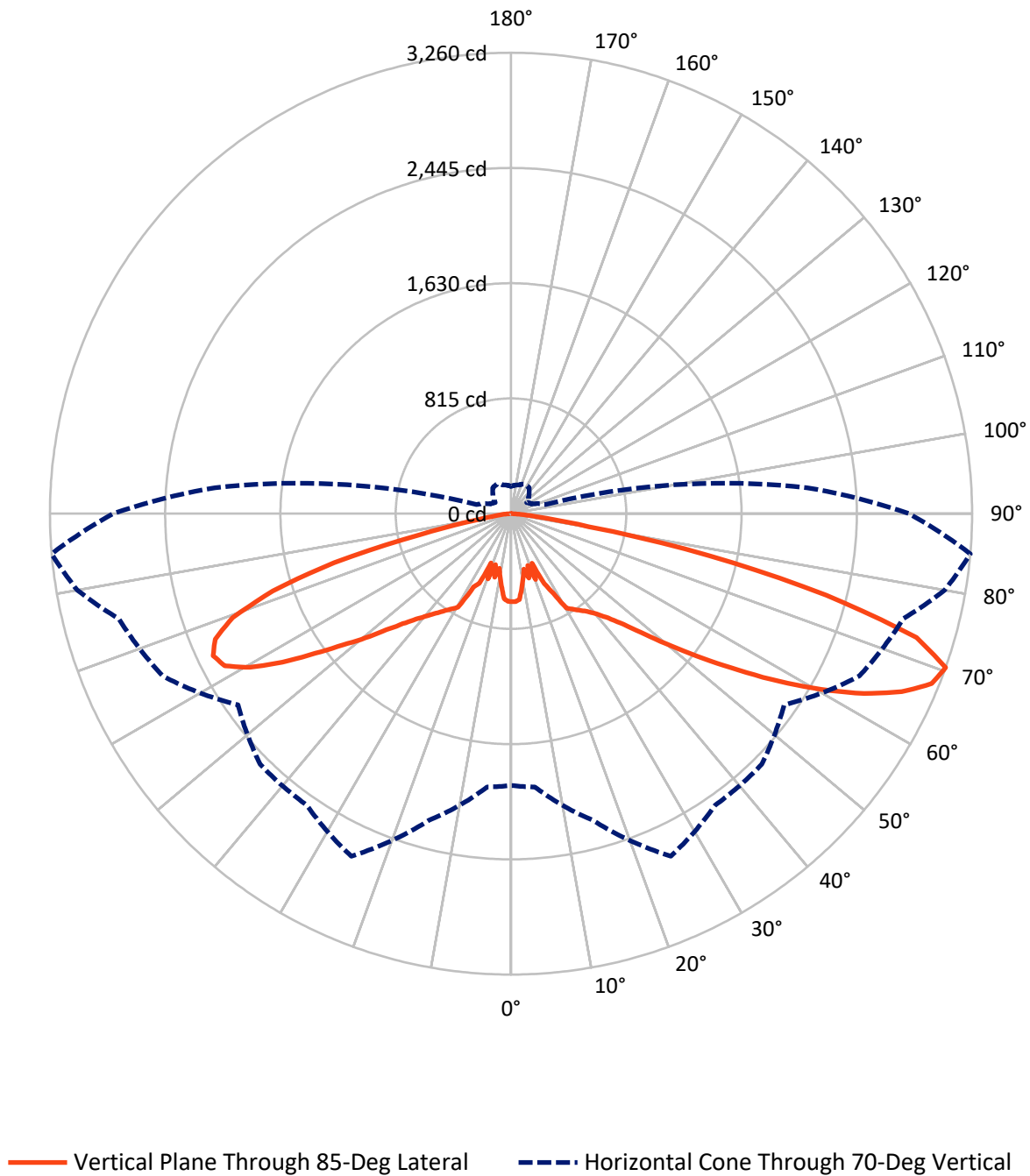


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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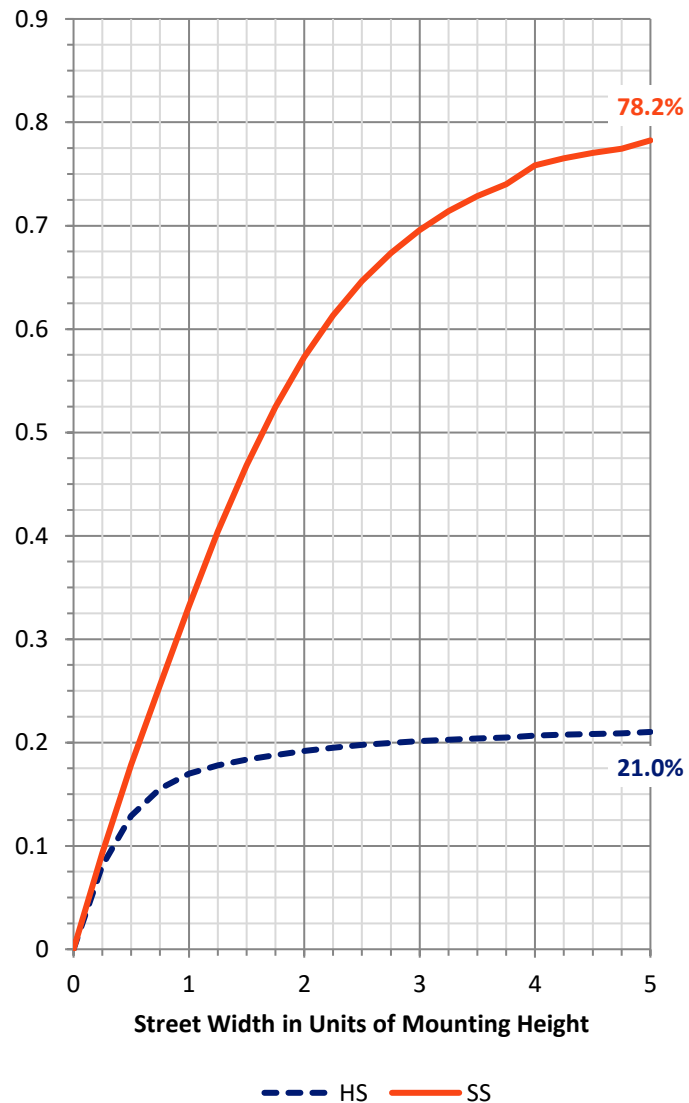
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1150.7	0.0	1150.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	4201.3	0.0	4201.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	5352.0	0.0	5352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	1.0
10°-20°	130.2	2.4
20°-30°	227.7	4.3
30°-40°	401.1	7.5
40°-50°	605.1	11.3
50°-60°	962.5	18.0
60°-70°	1411.3	26.4
70°-80°	1323.4	24.7
80°-90°	239.0	4.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5352.0	100.0
0°-180°	5352.0	100.0

Coefficient of Utilization



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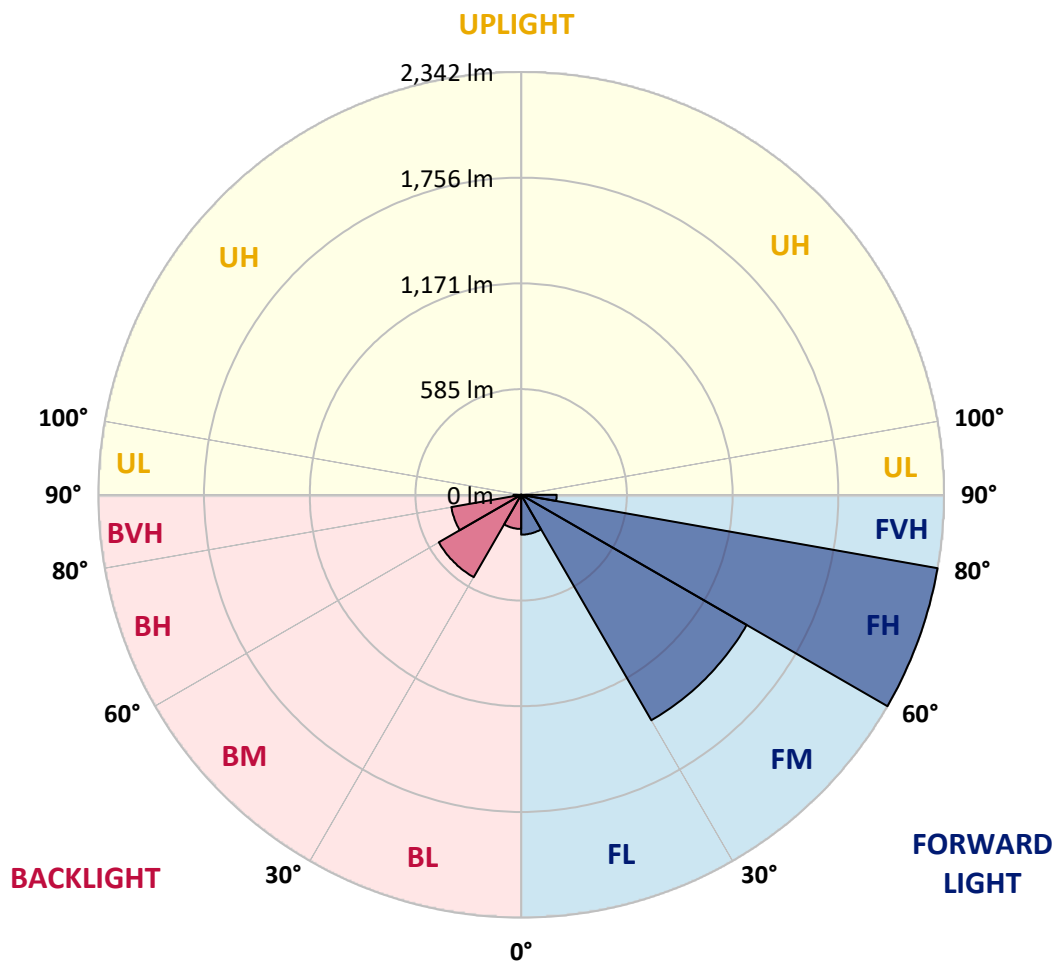
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.7	4.1			
FM	(30°-60°)	1441.8	26.9			
FH	(60°-80°)	2342.0	43.8			G2/5000
FVH	(80°-90°)	196.8	3.7			G2/225
BL	(0°-30°)	189.0	3.5	B1/500		
BM	(30°-60°)	526.8	9.8	B1/1000		
BH	(60°-80°)	392.8	7.3	B1/500		G1/500
BVH	(80°-90°)	42.2	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3
2.5°	565.1	588.8	600.6	612.5	616.4	620.4	620.4	618.4	618.4	618.4	622.3
5°	574.9	573.0	573.0	573.0	571.0	569.0	567.0	563.1	561.1	557.1	555.2
7.5°	527.5	567.0	569.0	571.0	571.0	569.0	573.0	576.9	573.0	567.0	559.1
10°	626.3	624.3	620.4	616.4	610.5	604.6	559.1	511.7	515.7	519.6	482.1
12.5°	543.3	580.9	596.7	612.5	614.4	614.4	582.8	549.2	505.8	462.3	444.5
15°	663.8	659.9	652.0	644.1	590.7	535.4	503.8	472.2	472.2	472.2	418.8
17.5°	559.1	557.1	592.7	628.3	608.5	588.8	543.3	497.9	430.7	361.6	405.0
20°	685.6	685.6	675.7	665.8	574.9	482.1	488.0	491.9	493.9	493.9	474.2
22.5°	574.9	571.0	574.9	576.9	576.9	576.9	493.9	410.9	456.4	499.9	454.4
25°	685.6	687.5	685.6	683.6	600.6	515.7	529.5	543.3	480.1	414.9	458.4
27.5°	598.6	596.7	586.8	576.9	578.9	580.9	537.4	491.9	517.6	543.3	497.9
30°	733.0	735.0	729.0	721.1	638.2	555.2	551.2	545.3	527.5	509.7	525.5
32.5°	885.1	885.1	823.9	762.6	711.3	657.9	614.4	571.0	588.8	606.5	586.8
35°	966.1	962.2	942.4	920.7	825.8	729.0	669.8	608.5	614.4	618.4	618.4
37.5°	1110.3	1108.4	1080.7	1053.0	924.6	794.2	717.2	638.2	650.0	659.9	646.1
40°	1290.1	1290.1	1268.4	1244.7	1080.7	914.7	806.1	697.4	695.4	691.5	675.7
42.5°	1464.0	1469.9	1456.1	1442.3	1250.6	1059.0	916.7	774.5	756.7	738.9	723.1
45°	1578.6	1586.5	1598.3	1610.2	1420.5	1230.9	1064.9	897.0	863.4	827.8	800.2
47.5°	1695.2	1683.3	1699.1	1714.9	1552.9	1390.9	1209.1	1027.4	972.0	916.7	887.1
50°	1803.8	1799.9	1805.8	1811.7	1679.3	1547.0	1359.3	1171.6	1104.4	1035.3	1001.7
52.5°	1946.1	1932.2	1924.3	1916.4	1803.8	1691.2	1513.4	1333.6	1254.6	1173.6	1134.1
55°	2082.4	2076.5	2064.6	2050.8	1954.0	1857.2	1669.5	1481.8	1398.8	1315.8	1270.4
57.5°	2222.7	2218.7	2216.7	2214.8	2129.8	2044.9	1853.2	1659.6	1564.8	1467.9	1430.4
60°	2355.0	2357.0	2372.8	2386.6	2321.4	2256.3	2062.6	1869.0	1748.5	1626.0	1588.5
62.5°	2434.1	2440.0	2479.5	2517.0	2481.5	2445.9	2246.4	2044.9	1918.4	1790.0	1764.3
65°	2333.3	2362.9	2477.5	2592.1	2592.1	2592.1	2410.4	2226.6	2116.0	2005.3	1983.6
67.5°	2108.1	2137.7	2301.7	2463.7	2548.7	2633.6	2515.1	2396.5	2321.4	2244.4	2216.7
70°	1922.4	1940.1	2094.2	2246.4	2459.7	2673.1	2596.1	2517.0	2513.1	2507.2	2432.1
72.5°	1766.3	1805.8	1932.2	2056.7	2351.1	2645.5	2643.5	2641.5	2722.5	2803.5	2659.3
75°	1412.6	1408.7	1527.2	1645.8	1977.7	2307.6	2493.3	2677.1	2910.2	3141.4	2920.1
77.5°	630.2	673.7	786.3	898.9	1197.3	1493.6	1851.2	2208.8	2722.5	3234.2	3009.0
80°	179.8	189.7	221.3	250.9	391.2	529.5	904.9	1278.3	1924.3	2568.4	2416.3
82.5°	94.8	98.8	118.5	136.3	175.8	213.4	355.6	495.9	1051.1	1604.3	1466.0
85°	45.4	41.5	53.3	63.2	85.0	106.7	164.0	221.3	407.0	592.7	511.7
87.5°	9.9	9.9	11.9	11.9	17.8	23.7	35.6	47.4	45.4	41.5	49.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3
2.5°	624.3	626.3	628.3	626.3	624.3	622.3	622.3	620.4	620.4	618.4	614.4
5°	553.2	580.9	608.5	610.5	612.5	612.5	610.5	608.5	604.6	602.6	598.6
7.5°	551.2	541.3	531.5	533.4	535.4	537.4	537.4	531.5	529.5	513.7	497.9
10°	442.6	432.7	422.8	428.7	434.7	456.4	468.2	464.3	460.3	432.7	403.0
12.5°	426.8	422.8	418.8	389.2	359.6	385.3	403.0	401.1	395.1	369.5	343.8
15°	365.5	367.5	367.5	401.1	434.7	456.4	472.2	468.2	464.3	432.7	401.1
17.5°	446.5	424.8	401.1	395.1	389.2	399.1	385.3	363.5	377.4	373.4	369.5
20°	452.4	399.1	343.8	399.1	454.4	468.2	497.9	495.9	490.0	462.3	434.7
22.5°	409.0	440.6	470.2	440.6	410.9	391.2	381.3	377.4	375.4	383.3	389.2
25°	501.8	442.6	381.3	454.4	525.5	541.3	549.2	543.3	541.3	505.8	470.2
27.5°	450.5	482.1	513.7	537.4	561.1	580.9	640.1	582.8	580.9	547.3	511.7
30°	539.4	573.0	606.5	667.8	729.0	762.6	774.5	770.5	760.6	707.3	654.0
32.5°	567.0	634.2	699.4	727.1	752.7	788.3	806.1	804.1	794.2	731.0	665.8
35°	618.4	667.8	717.2	754.7	790.3	823.9	839.7	845.6	833.7	754.7	673.7
37.5°	632.2	695.4	758.7	798.2	837.7	863.4	877.2	895.0	881.2	786.3	689.5
40°	659.9	735.0	808.1	847.6	885.1	908.8	932.5	954.3	936.5	821.9	705.3
42.5°	705.3	782.4	857.5	902.9	946.4	979.9	1007.6	1037.2	1003.7	855.5	705.3
45°	772.5	843.6	914.7	976.0	1035.3	1076.8	1116.3	1157.8	1090.6	898.9	705.3
47.5°	857.5	926.6	993.8	1090.6	1187.4	1224.9	1272.4	1311.9	1203.2	954.3	705.3
50°	966.1	1043.2	1120.2	1248.6	1375.1	1410.7	1469.9	1499.6	1353.4	1039.2	723.1
52.5°	1092.6	1177.5	1260.5	1410.7	1560.8	1620.1	1699.1	1718.9	1505.5	1124.2	740.9
55°	1224.9	1339.5	1452.1	1618.1	1782.1	1839.4	1952.0	1967.8	1701.1	1228.9	754.7
57.5°	1392.9	1527.2	1659.6	1821.6	1981.6	2062.6	2238.5	2244.4	1928.3	1357.3	784.4
60°	1550.9	1718.9	1884.8	2038.9	2193.0	2319.5	2523.0	2524.9	2141.7	1454.1	764.6
62.5°	1738.6	1938.2	2135.7	2268.1	2400.5	2556.6	2801.5	2766.0	2291.8	1466.0	640.1
65°	1959.9	2165.4	2370.8	2483.5	2594.1	2771.9	3036.7	2900.3	2333.3	1398.8	462.3
67.5°	2187.1	2378.7	2570.4	2659.3	2748.2	2973.4	3208.5	2916.1	2272.1	1298.0	322.0
70°	2357.0	2536.8	2716.6	2793.6	2870.7	3113.7	3259.9	2813.4	2100.2	1175.5	250.9
72.5°	2513.1	2683.0	2850.9	2890.5	2928.0	3052.5	2999.1	2479.5	1770.2	989.8	207.4
75°	2698.8	2807.5	2914.2	2843.0	2771.9	2604.0	2301.7	1807.8	1296.1	736.9	177.8
77.5°	2783.8	2758.1	2730.4	2487.4	2244.4	1793.9	1430.4	1045.1	657.9	405.0	152.1
80°	2264.2	2161.4	2056.7	1649.7	1242.7	849.6	557.1	353.7	241.0	181.8	122.5
82.5°	1325.7	1086.6	847.6	622.3	397.1	278.6	181.8	144.2	112.6	106.7	98.8
85°	428.7	379.3	329.9	260.8	191.6	118.5	69.1	63.2	59.3	65.2	69.1
87.5°	57.3	57.3	55.3	41.5	25.7	13.8	7.9	5.9	5.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3
2.5°	614.4	612.5	610.5	608.5	606.5	602.6	586.8	571.0	565.1	557.1	551.2
5°	578.9	559.1	545.3	531.5	525.5	517.6	519.6	521.6	523.6	523.6	523.6
7.5°	501.8	505.8	507.8	507.8	513.7	517.6	521.6	523.6	515.7	507.8	497.9
10°	399.1	393.2	401.1	407.0	416.9	424.8	450.5	476.1	499.9	523.6	533.4
12.5°	363.5	383.3	367.5	351.7	383.3	412.9	448.5	484.0	505.8	525.5	507.8
15°	369.5	335.9	339.8	341.8	381.3	418.8	397.1	375.4	436.6	495.9	513.7
17.5°	363.5	357.6	379.3	399.1	361.6	324.0	377.4	428.7	456.4	484.0	476.1
20°	393.2	349.7	349.7	349.7	383.3	416.9	391.2	365.5	395.1	424.8	474.2
22.5°	407.0	422.8	391.2	357.6	379.3	401.1	401.1	399.1	432.7	464.3	456.4
25°	410.9	351.7	379.3	405.0	391.2	375.4	393.2	409.0	418.8	428.7	472.2
27.5°	470.2	428.7	397.1	363.5	389.2	414.9	409.0	403.0	410.9	418.8	428.7
30°	557.1	460.3	424.8	387.2	373.4	357.6	375.4	391.2	420.8	450.5	490.0
32.5°	582.8	497.9	440.6	381.3	379.3	375.4	381.3	385.3	418.8	450.5	505.8
35°	578.9	482.1	426.8	369.5	357.6	345.7	355.6	363.5	412.9	462.3	515.7
37.5°	574.9	458.4	401.1	343.8	335.9	326.0	335.9	345.7	383.3	420.8	470.2
40°	569.0	430.7	375.4	318.1	308.2	298.3	308.2	316.1	345.7	375.4	414.9
42.5°	555.2	403.0	347.7	290.4	282.5	272.6	280.5	288.5	314.1	339.8	363.5
45°	539.4	371.4	318.1	264.7	256.8	248.9	254.9	258.8	282.5	304.3	316.1
47.5°	521.6	337.8	288.5	239.1	231.2	223.3	229.2	233.1	250.9	268.7	272.6
50°	517.6	310.2	264.7	217.3	211.4	203.5	207.4	211.4	225.2	237.1	237.1
52.5°	509.7	276.6	239.1	199.5	195.6	189.7	191.6	193.6	203.5	213.4	211.4
55°	503.8	252.9	219.3	185.7	181.8	175.8	177.8	179.8	189.7	197.6	195.6
57.5°	509.7	233.1	203.5	171.9	167.9	164.0	167.9	171.9	181.8	191.6	191.6
60°	490.0	213.4	185.7	158.1	156.1	152.1	162.0	169.9	185.7	199.5	203.5
62.5°	418.8	195.6	171.9	148.2	150.2	150.2	167.9	183.7	205.5	225.2	229.2
65°	322.0	181.8	162.0	140.3	150.2	160.0	183.7	207.4	227.2	247.0	241.0
67.5°	247.0	171.9	156.1	138.3	160.0	179.8	201.5	223.3	233.1	241.0	231.2
70°	207.4	162.0	150.2	136.3	158.1	179.8	201.5	223.3	227.2	231.2	221.3
72.5°	181.8	154.1	142.3	130.4	148.2	166.0	191.6	215.4	219.3	221.3	211.4
75°	162.0	144.2	130.4	116.6	134.3	150.2	175.8	201.5	205.5	207.4	199.5
77.5°	142.3	132.4	116.6	100.8	118.5	136.3	160.0	183.7	189.7	195.6	185.7
80°	118.5	112.6	100.8	88.9	108.7	126.4	148.2	169.9	175.8	181.8	171.9
82.5°	94.8	90.9	83.0	75.1	94.8	114.6	136.3	156.1	162.0	166.0	154.1
85°	69.1	69.1	65.2	61.2	81.0	98.8	112.6	126.4	124.5	122.5	114.6
87.5°	9.9	9.9	13.8	17.8	23.7	27.7	35.6	41.5	43.5	43.5	33.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	622.3	622.3	622.3	622.3
2.5°	545.3	545.3	543.3	547.3
5°	523.6	525.5	525.5	527.5
7.5°	488.0	478.1	466.3	468.2
10°	543.3	545.3	547.3	547.3
12.5°	488.0	480.1	470.2	472.2
15°	529.5	535.4	541.3	543.3
17.5°	466.3	464.3	462.3	460.3
20°	521.6	531.5	541.3	541.3
22.5°	448.5	448.5	448.5	450.5
25°	515.7	527.5	537.4	537.4
27.5°	436.6	464.3	491.9	513.7
30°	527.5	533.4	539.4	541.3
32.5°	559.1	588.8	616.4	622.3
35°	567.0	580.9	592.7	598.6
37.5°	519.6	531.5	543.3	551.2
40°	452.4	462.3	472.2	478.1
42.5°	385.3	387.2	389.2	399.1
45°	328.0	318.1	308.2	306.2
47.5°	274.6	260.8	247.0	245.0
50°	235.1	223.3	211.4	211.4
52.5°	207.4	199.5	191.6	191.6
55°	193.6	189.7	183.7	183.7
57.5°	191.6	189.7	187.7	187.7
60°	205.5	207.4	207.4	207.4
62.5°	231.2	233.1	233.1	233.1
65°	233.1	229.2	225.2	225.2
67.5°	221.3	215.4	209.4	205.5
70°	209.4	205.5	199.5	193.6
72.5°	199.5	195.6	189.7	183.7
75°	189.7	183.7	175.8	171.9
77.5°	175.8	171.9	166.0	162.0
80°	160.0	156.1	150.2	142.3
82.5°	142.3	144.2	144.2	124.5
85°	104.7	98.8	90.9	75.1
87.5°	21.7	19.8	15.8	13.8
90°	0.0	0.0	0.0	0.0

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