

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

Brand: STREETWORKS

Report Number: P386138

Luminaire Tested: GAW-SA1D-730-U-SLL-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-730-U-SLL-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5594 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

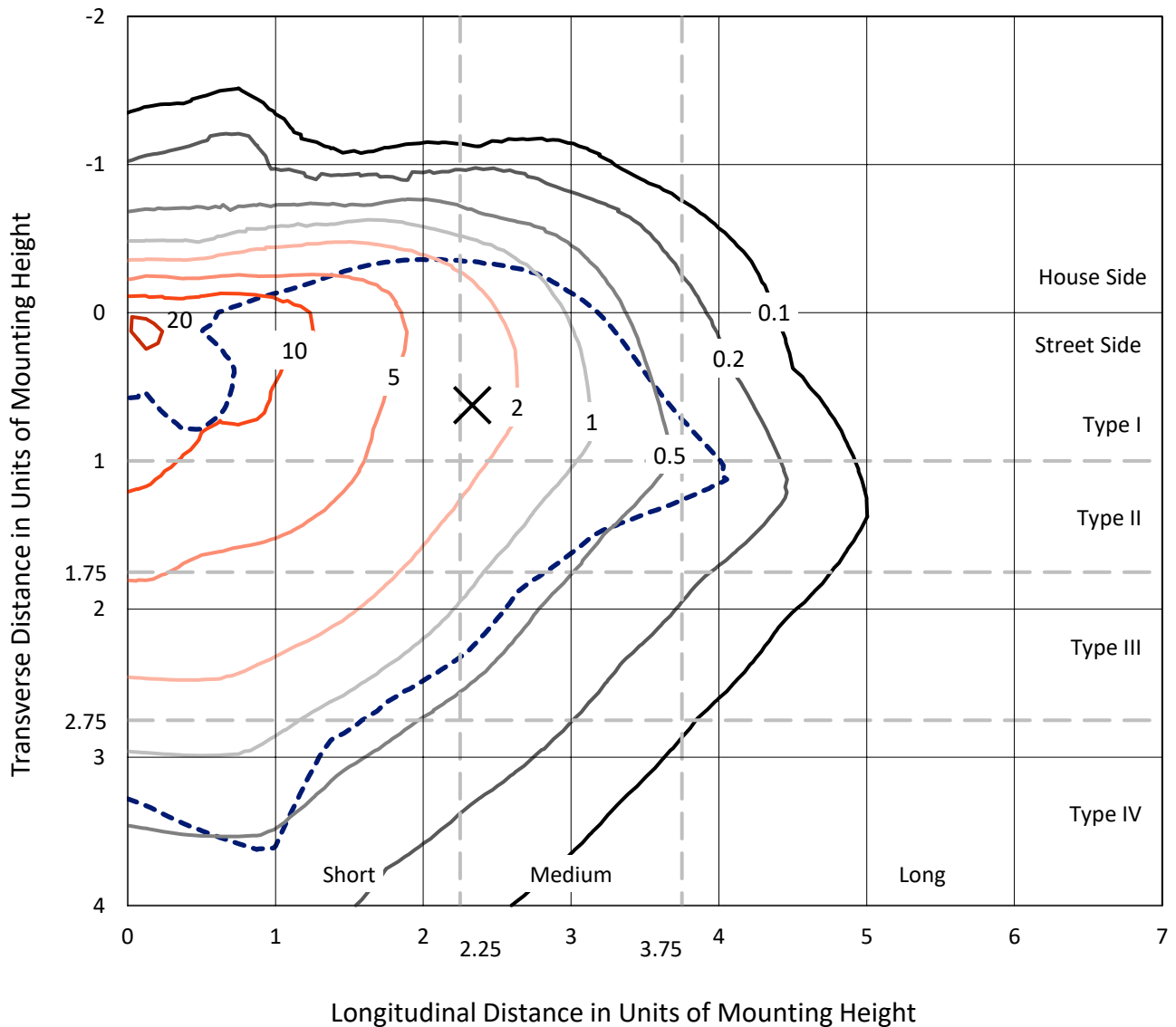
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

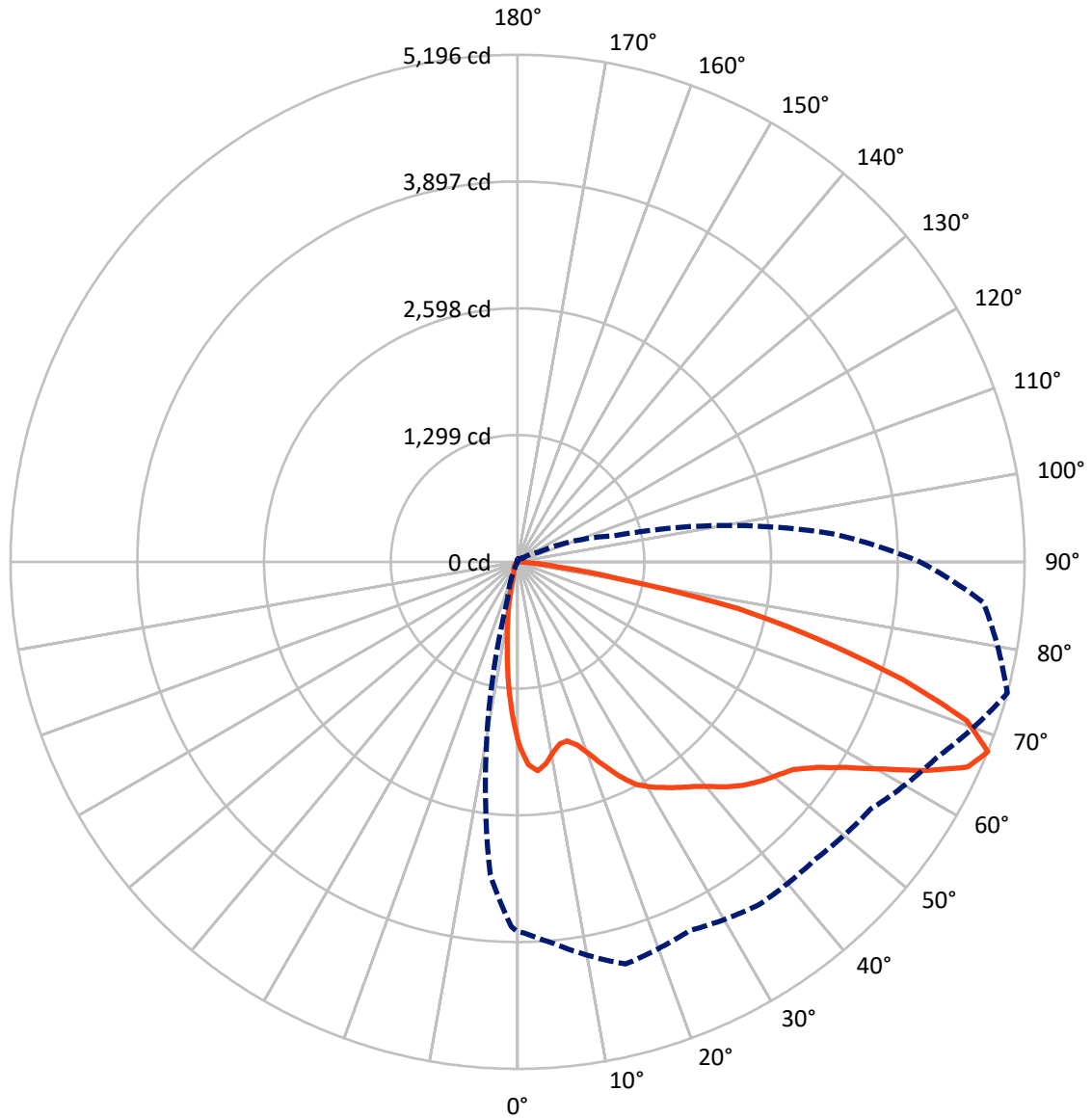
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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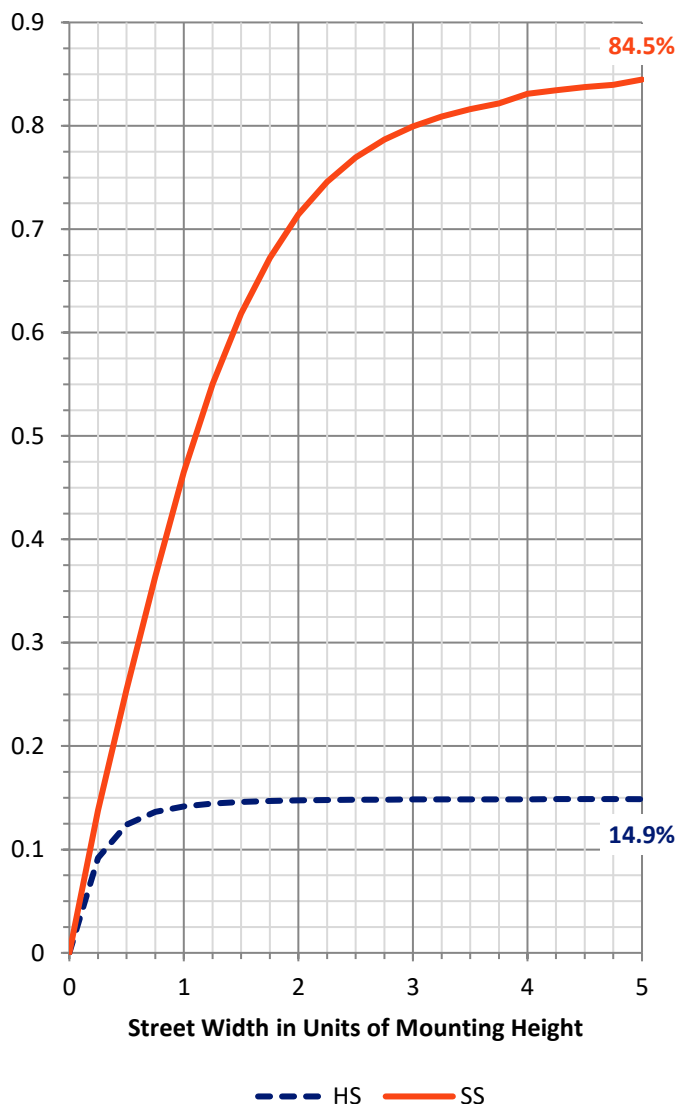
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	839.4	0.0	839.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	4754.6	0.0	4754.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	5594.0	0.0	5594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	2.5
10°-20°	280.3	5.0
20°-30°	396.5	7.1
30°-40°	583.0	10.4
40°-50°	838.0	15.0
50°-60°	1179.7	21.1
60°-70°	1377.8	24.6
70°-80°	702.9	12.6
80°-90°	93.4	1.7
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°	5594.0	100.0
0°-180°	5594.0	100.0

Coefficient of Utilization

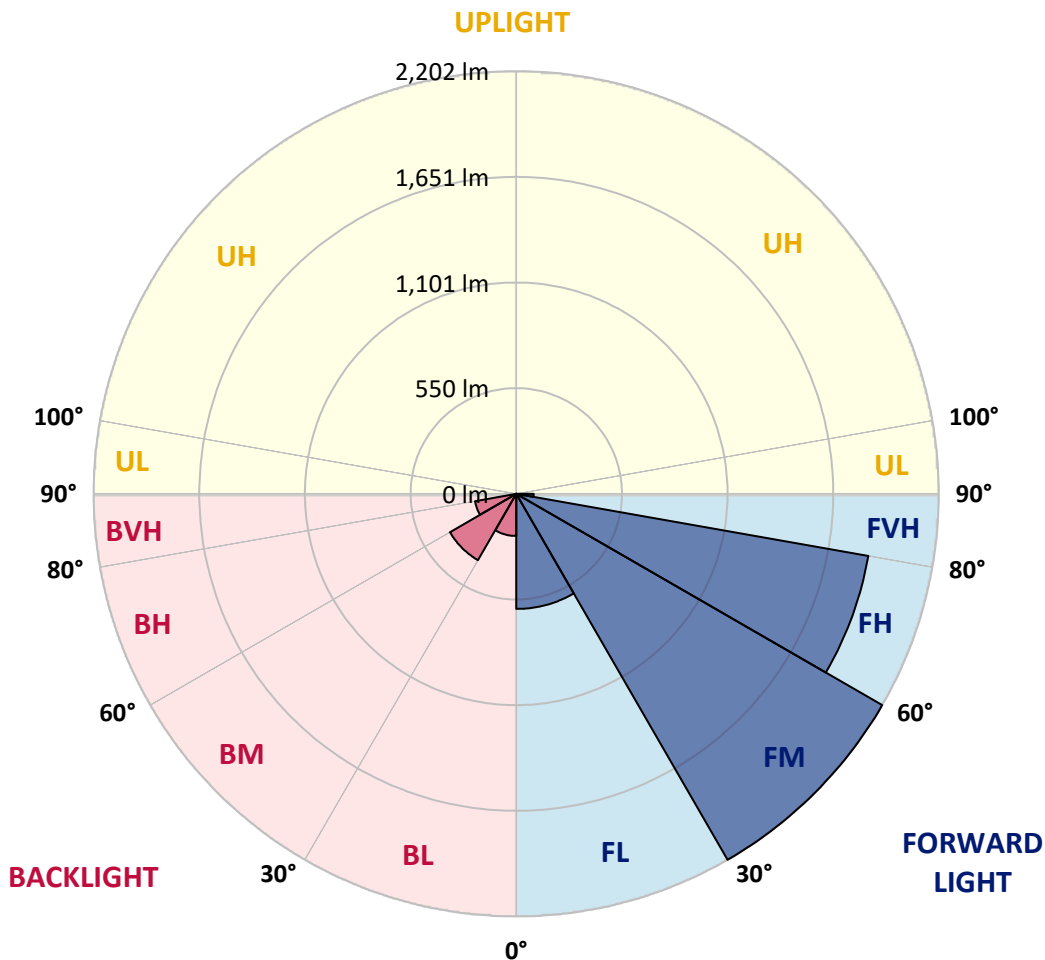


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.7	10.7			
FM (30°-60°)	2201.7	39.4			
FH (60°-80°)	1862.6	33.3			G2/5000
FVH (80°-90°)	90.5	1.6			G1/100
BL (0°-30°)	219.5	3.9	B1/500		
BM (30°-60°)	399.0	7.1	B1/1000		
BH (60°-80°)	218.0	3.9	B1/500		G1/500
BVH (80°-90°)	2.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	2034.4	2037.5	2054.0	2092.1	2133.7	2136.9	2165.0	2136.1	2126.3	2079.7	2031.4
5°	2049.7	2061.9	2118.4	2230.5	2327.7	2359.0	2381.2	2324.5	2264.9	2151.0	2029.3
7.5°	1926.0	1946.4	2035.2	2245.6	2419.4	2496.2	2510.8	2422.1	2276.0	2088.4	1905.6
10°	1767.5	1790.8	1897.9	2156.5	2395.3	2527.0	2547.1	2430.8	2220.9	1987.2	1771.8
12.5°	1639.3	1666.6	1776.0	2056.4	2312.3	2458.1	2497.8	2401.4	2173.2	1915.4	1680.3
15°	1580.2	1611.4	1726.4	1991.7	2220.4	2335.1	2368.0	2326.4	2146.7	1904.0	1659.1
17.5°	1614.1	1648.0	1766.7	1997.3	2134.0	2183.0	2209.5	2226.5	2146.7	1972.6	1721.1
20°	1753.2	1789.8	1915.4	2053.7	2062.5	2044.2	2072.5	2132.1	2171.6	2103.0	1870.1
22.5°	1945.6	1988.5	2130.3	2150.4	2027.5	1958.3	1962.0	2055.6	2216.9	2268.4	2076.8
25°	2180.1	2232.6	2376.7	2294.6	2042.0	1907.2	1905.8	1992.5	2261.2	2434.0	2307.0
27.5°	2413.0	2470.8	2597.5	2470.5	2102.2	1897.9	1895.2	1973.4	2304.4	2581.3	2558.5
30°	2608.3	2664.5	2773.7	2598.0	2167.1	1919.6	1906.9	1993.8	2330.1	2677.0	2741.9
32.5°	2767.3	2812.4	2900.6	2685.7	2236.6	1961.8	1934.2	2048.4	2373.8	2757.8	2910.4
35°	2942.2	2989.7	3024.9	2769.2	2314.5	2022.4	1983.0	2135.1	2441.1	2839.9	3095.1
37.5°	3141.8	3188.9	3184.7	2845.5	2413.3	2122.9	2097.7	2272.3	2545.8	2921.3	3301.3
40°	3337.1	3385.3	3350.9	2929.0	2529.4	2288.5	2269.9	2478.5	2686.0	3025.4	3543.0
42.5°	3519.9	3572.1	3498.5	3008.0	2667.7	2497.3	2529.1	2744.0	2861.4	3153.7	3751.3
45°	3667.3	3720.5	3622.2	3084.8	2813.4	2750.6	2846.3	3038.2	3072.3	3262.1	3892.0
47.5°	3774.3	3824.7	3708.1	3161.6	3000.0	3060.4	3227.1	3346.6	3262.9	3356.2	3991.9
50°	3842.7	3881.9	3733.2	3257.8	3244.9	3421.9	3623.8	3682.1	3442.3	3441.0	4113.2
52.5°	3886.1	3903.9	3751.8	3358.3	3500.3	3815.4	4012.3	4030.6	3627.0	3534.2	4276.7
55°	4035.9	4050.2	3883.2	3479.9	3711.5	4160.1	4363.7	4346.7	3836.1	3716.8	4469.7
57.5°	4291.3	4306.4	4154.8	3654.8	3882.4	4373.2	4618.3	4648.8	4081.2	3973.3	4676.4
60°	4419.6	4447.7	4393.6	3876.3	4048.1	4509.4	4791.9	4889.1	4387.5	4311.5	4876.7
62.5°	4303.2	4344.1	4422.5	4122.0	4212.6	4584.4	4846.0	4975.3	4701.3	4705.5	5000.2
65°	4071.1	4103.7	4236.7	4256.6	4308.0	4575.1	4712.4	4855.0	4893.4	5067.5	4993.6
67.5°	3790.7	3802.9	3915.8	4267.2	4169.7	4296.4	4311.2	4416.7	4741.5	5195.7	4793.0
70°	3387.2	3393.8	3492.4	3912.4	3583.3	3611.1	3589.1	3610.6	4076.4	4883.3	4286.6
72.5°	2726.0	2742.7	2882.9	3249.1	2610.5	2530.2	2702.9	2693.4	3139.4	4125.7	3183.6
75°	2007.1	2036.0	2247.7	2617.1	1832.2	1657.3	1783.4	1817.1	2231.8	3191.3	1990.9
77.5°	1405.3	1426.7	1631.8	1923.9	1326.0	1185.1	1139.5	1179.5	1473.1	2308.6	1003.0
80°	809.6	817.5	948.4	1110.9	893.6	1022.3	926.2	953.7	882.7	1027.1	431.4
82.5°	529.7	531.0	582.2	661.2	556.5	646.6	478.6	611.9	543.0	412.6	140.4
85°	286.2	287.8	337.6	469.3	315.1	178.1	104.7	214.9	335.7	94.6	38.4
87.5°	31.5	28.9	101.8	170.7	87.4	16.2	5.6	24.1	53.8	6.1	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	2006.8	1984.8	1930.0	1871.9	1825.3	1781.6	1737.6	1683.8	1642.2	1633.7	1619.9
5°	1963.9	1894.2	1779.2	1663.6	1570.6	1453.2	1378.8	1320.7	1264.0	1260.6	1249.2
7.5°	1813.9	1722.2	1560.3	1400.5	1269.6	1157.8	1044.9	969.4	910.0	889.1	876.6
10°	1669.7	1566.6	1364.5	1182.1	1065.3	966.4	886.9	808.0	736.4	687.1	664.9
12.5°	1569.0	1455.1	1232.2	1075.1	991.3	897.5	800.5	702.0	619.6	560.2	523.9
15°	1530.1	1408.4	1188.0	1032.7	929.3	810.6	686.6	574.0	482.6	428.8	396.2
17.5°	1576.5	1434.9	1184.5	981.0	836.6	689.0	552.0	419.0	332.8	292.0	271.1
20°	1694.1	1519.2	1183.2	917.7	726.4	544.8	373.9	275.6	223.4	200.6	190.8
22.5°	1860.5	1626.8	1193.8	855.1	611.6	389.3	258.1	202.5	175.7	163.5	157.9
25°	2074.6	1777.8	1223.7	798.4	503.8	290.4	201.1	169.6	150.8	141.2	137.3
27.5°	2302.8	1951.7	1270.4	749.1	416.0	231.6	172.2	145.2	131.7	125.1	121.4
30°	2490.9	2153.1	1317.6	694.3	352.4	201.9	157.7	132.5	116.9	112.6	109.2
32.5°	2655.5	2305.5	1350.9	644.7	310.8	179.4	142.6	118.5	107.9	99.6	95.9
35°	2825.9	2432.4	1349.9	610.0	282.2	162.4	129.8	106.0	93.3	83.7	80.8
37.5°	3010.3	2575.7	1326.8	580.3	269.8	148.9	122.7	99.4	86.7	77.1	73.4
40°	3226.3	2726.3	1303.2	552.5	266.3	138.1	117.7	94.1	80.6	71.3	67.6
42.5°	3436.7	2861.9	1282.6	531.8	251.5	137.8	113.2	90.1	75.8	66.8	62.5
45°	3605.0	2988.3	1278.6	519.4	235.8	142.6	110.8	87.4	72.1	63.1	59.1
47.5°	3744.9	3125.6	1304.0	510.6	221.0	130.1	116.6	85.6	68.6	59.9	55.4
50°	3911.3	3294.1	1363.9	496.3	205.4	117.1	133.6	86.1	65.7	56.7	51.9
52.5°	4143.5	3527.3	1451.9	472.2	183.9	105.2	131.4	86.7	62.5	53.3	48.5
55°	4403.7	3818.6	1546.5	432.2	154.0	89.6	112.6	82.9	56.4	49.6	45.0
57.5°	4677.2	4082.8	1602.7	384.5	122.4	77.4	90.1	75.5	49.8	44.5	41.6
60°	4720.1	4183.2	1577.0	325.9	97.3	67.3	66.8	76.8	44.5	39.2	37.1
62.5°	4613.3	4057.1	1452.7	273.7	81.4	59.1	54.9	67.0	40.3	35.0	32.9
65°	4407.9	3716.0	1251.3	246.7	75.5	50.6	45.6	47.2	35.2	30.5	28.6
67.5°	4122.3	3260.8	1027.4	231.3	74.7	43.5	39.0	35.8	30.5	26.5	24.9
70°	3538.2	2716.5	819.6	222.9	72.6	36.6	32.9	29.1	25.4	22.5	21.2
72.5°	2604.1	1924.9	637.6	213.6	73.1	29.1	28.6	24.1	20.4	17.5	17.0
75°	1504.6	1099.7	418.2	173.0	69.7	22.5	23.8	17.0	14.3	12.2	12.2
77.5°	801.9	670.7	159.3	72.1	25.4	14.3	13.5	10.1	9.0	7.4	7.2
80°	349.5	295.2	48.0	20.1	14.0	7.7	5.0	4.5	4.0	3.2	2.9
82.5°	123.8	106.8	15.6	9.8	6.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.1	20.1	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	1591.8	1586.0	1551.5	1552.9	1559.0	1567.7	1547.0	1556.6	1582.3	1606.9	1616.2
5°	1230.9	1232.2	1211.3	1224.3	1235.9	1243.9	1210.5	1211.0	1231.4	1259.3	1273.8
7.5°	867.3	865.2	866.3	897.3	919.3	903.4	915.8	872.6	875.3	895.2	880.3
10°	644.7	615.6	599.2	622.5	646.6	637.8	616.4	602.3	612.1	634.1	632.5
12.5°	506.7	464.8	440.2	423.5	443.3	426.9	426.4	414.2	400.9	403.3	438.6
15°	381.1	350.6	321.4	294.7	294.1	288.6	260.2	228.4	225.8	227.4	245.6
17.5°	262.1	251.7	239.8	216.8	210.7	187.4	159.8	147.1	140.7	143.6	149.7
20°	184.2	180.2	181.5	169.1	160.3	138.1	121.9	116.9	115.8	118.7	121.6
22.5°	152.6	145.5	144.7	139.1	130.4	114.2	105.5	102.6	101.2	103.9	106.0
25°	133.6	126.4	123.5	120.0	110.8	99.6	94.3	91.7	90.4	92.0	93.3
27.5°	117.7	111.0	108.4	106.0	97.0	89.0	84.8	82.4	81.4	81.9	83.2
30°	105.7	99.9	96.5	93.5	85.9	80.3	76.6	74.2	73.1	73.1	74.5
32.5°	93.3	90.1	86.9	83.2	76.1	72.3	68.6	66.0	64.9	65.2	66.2
35°	77.6	76.6	77.4	73.9	67.8	64.7	60.9	58.0	57.2	57.5	58.6
37.5°	68.9	64.1	67.0	65.2	61.7	57.5	52.7	50.1	48.8	49.6	50.1
40°	63.3	57.5	55.4	57.2	56.7	49.8	45.6	42.9	41.9	42.1	42.7
42.5°	58.6	51.7	46.9	46.6	49.8	43.5	39.0	36.6	35.2	35.2	35.8
45°	54.1	46.6	40.8	36.3	41.9	36.8	32.6	30.5	28.9	28.9	29.1
47.5°	50.6	42.4	35.5	29.7	31.5	30.2	26.8	24.6	23.1	23.1	23.3
50°	47.4	38.2	30.7	24.9	23.6	24.9	21.7	19.3	18.3	18.0	18.5
52.5°	44.0	33.9	26.2	21.2	18.5	18.8	17.0	15.4	14.0	14.0	14.6
55°	40.5	30.5	22.8	18.0	15.4	14.0	13.5	12.5	11.4	11.4	11.9
57.5°	37.1	26.8	19.3	14.8	12.2	11.1	11.1	10.3	9.5	9.5	10.1
60°	33.9	23.1	15.9	12.2	9.5	9.3	9.5	8.7	8.2	8.2	8.7
62.5°	30.2	19.6	13.0	10.1	7.7	7.4	8.2	7.7	7.2	7.2	7.7
65°	25.7	16.7	10.3	7.7	5.8	5.8	6.9	6.4	5.8	5.8	6.4
67.5°	21.7	14.0	7.9	5.6	4.2	4.5	5.8	5.3	5.0	5.0	5.6
70°	18.0	10.9	5.6	3.4	2.4	3.4	4.5	4.5	4.5	4.5	5.0
72.5°	13.5	7.4	3.2	1.3	1.1	2.4	3.7	4.2	4.0	4.0	4.8
75°	8.7	4.2	1.1	0.0	0.0	1.3	2.9	3.4	3.4	3.2	4.0
77.5°	5.0	1.3	0.0	0.0	0.0	0.0	1.9	1.6	1.3	1.1	1.9
80°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	1653.6	1684.8	1728.8	1775.5	1847.3	1904.3	1960.2	2008.1	2026.7	2034.4
5°	1308.8	1354.7	1419.0	1501.7	1631.3	1747.9	1866.1	1985.1	2036.7	2049.7
7.5°	939.1	997.7	1079.6	1183.2	1335.0	1486.1	1651.2	1825.8	1905.8	1926.0
10°	695.1	766.6	860.4	969.6	1114.6	1269.9	1449.8	1649.3	1740.7	1767.5
12.5°	493.2	589.9	715.5	848.2	973.9	1112.4	1294.5	1514.4	1610.4	1639.3
15°	289.6	383.2	531.8	709.7	870.5	1011.0	1195.9	1445.3	1551.0	1580.2
17.5°	166.2	212.8	325.1	523.4	741.7	936.2	1164.9	1462.5	1587.1	1614.1
20°	126.9	141.8	187.4	337.1	591.2	862.8	1164.9	1560.0	1713.5	1753.2
22.5°	111.0	121.9	140.4	201.1	435.1	784.1	1178.4	1701.0	1901.6	1945.6
25°	98.6	108.4	124.3	151.3	296.8	690.6	1210.5	1874.0	2123.1	2180.1
27.5°	88.2	97.5	111.8	132.5	203.0	577.7	1253.7	2077.0	2367.5	2413.0
30°	79.0	87.7	100.7	115.3	156.6	449.7	1290.5	2268.4	2559.3	2608.3
32.5°	70.2	78.2	89.8	100.7	128.3	332.6	1294.5	2419.9	2718.6	2767.3
35°	62.0	69.2	79.8	88.2	106.3	262.6	1232.8	2551.4	2877.8	2942.2
37.5°	54.1	60.9	70.2	76.6	93.5	214.1	1138.4	2697.9	3082.2	3141.8
40°	46.6	52.7	62.3	66.5	88.5	164.6	1035.9	2851.6	3282.5	3337.1
42.5°	39.7	45.6	54.9	63.1	77.6	123.0	925.1	2995.8	3462.7	3519.9
45°	33.1	39.2	48.5	66.8	64.4	92.0	806.6	3091.4	3605.0	3667.3
47.5°	26.8	33.7	46.4	63.6	51.4	67.6	712.8	3182.1	3712.8	3774.3
50°	21.5	28.4	52.2	56.7	42.1	51.7	673.6	3263.1	3783.6	3842.7
52.5°	17.5	23.8	49.3	43.5	35.2	42.7	694.8	3394.6	3849.0	3886.1
55°	14.6	18.8	29.7	30.2	29.9	36.3	721.1	3583.3	4018.4	4035.9
57.5°	12.7	15.1	20.7	23.3	25.2	32.3	721.6	3854.1	4280.5	4291.3
60°	10.9	13.2	17.2	18.8	21.7	28.9	695.3	3948.7	4383.5	4419.6
62.5°	9.5	11.7	14.3	15.6	18.3	26.0	633.9	3811.7	4242.0	4303.2
65°	8.5	10.6	11.9	13.2	16.2	23.3	532.6	3537.7	4007.2	4071.1
67.5°	7.4	9.3	10.6	11.9	14.6	20.7	392.2	3219.4	3737.7	3790.7
70°	6.6	8.2	9.5	10.6	12.7	17.5	238.0	2731.8	3365.2	3387.2
72.5°	6.4	7.4	8.7	9.5	11.1	15.4	120.6	2007.6	2690.2	2726.0
75°	5.6	6.6	7.9	8.5	9.8	13.2	49.0	1318.6	1949.6	2007.1
77.5°	4.5	6.1	7.2	7.7	8.5	10.9	24.9	842.7	1368.2	1405.3
80°	1.6	4.5	6.1	6.4	7.2	7.9	16.4	461.4	793.7	809.6
82.5°	0.0	2.9	4.8	4.5	5.0	6.1	10.6	219.4	523.9	529.7
85°	0.0	1.3	3.7	2.9	2.1	4.2	3.7	48.0	274.8	286.2
87.5°	0.0	0.0	0.3	1.3	1.1	1.6	0.5	0.3	24.9	31.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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