

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: P200159

Luminaire Tested: **GAW-AF-01-LED-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAW-AF-01-LED-U-SLL
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5716.3 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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



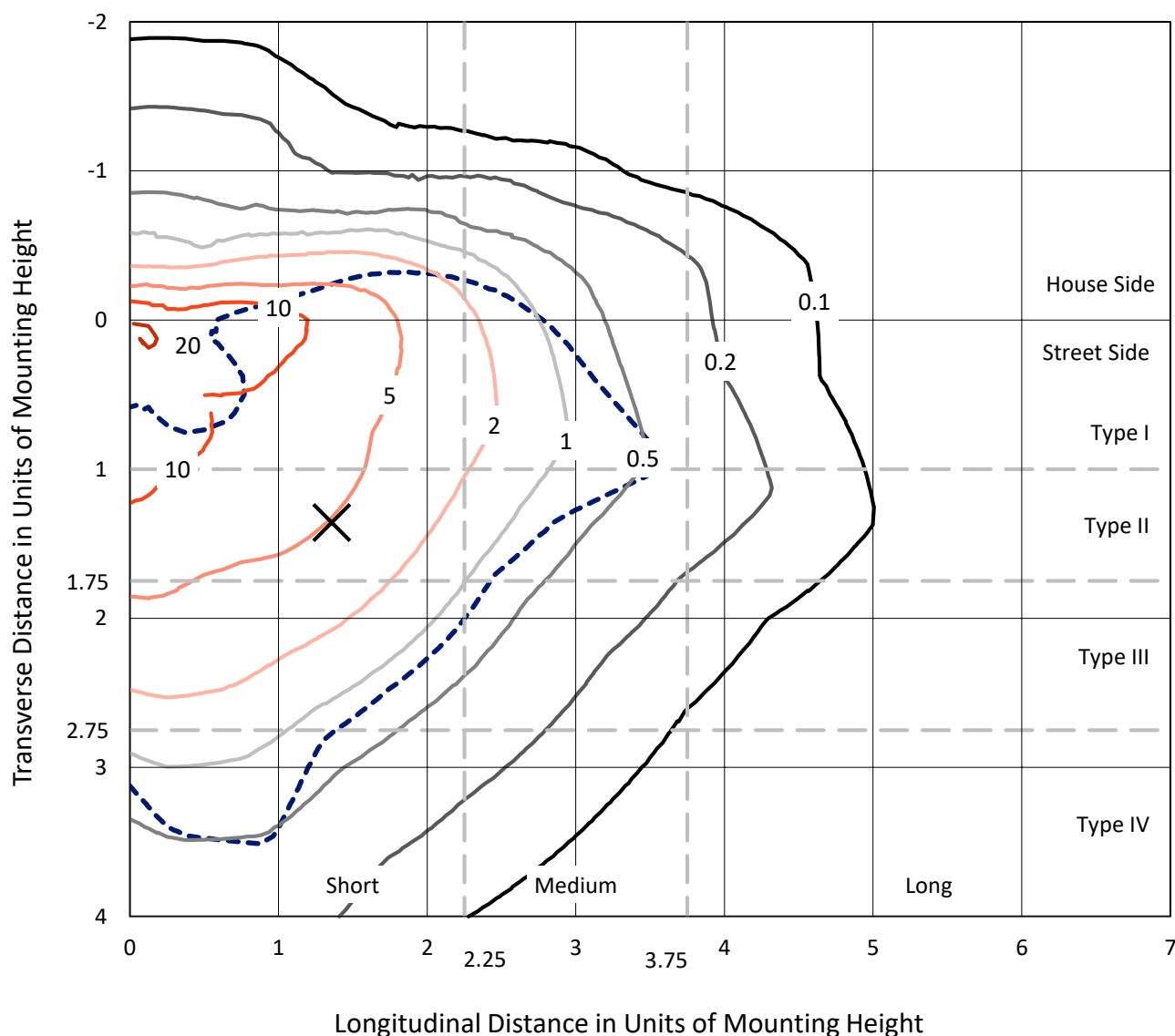
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

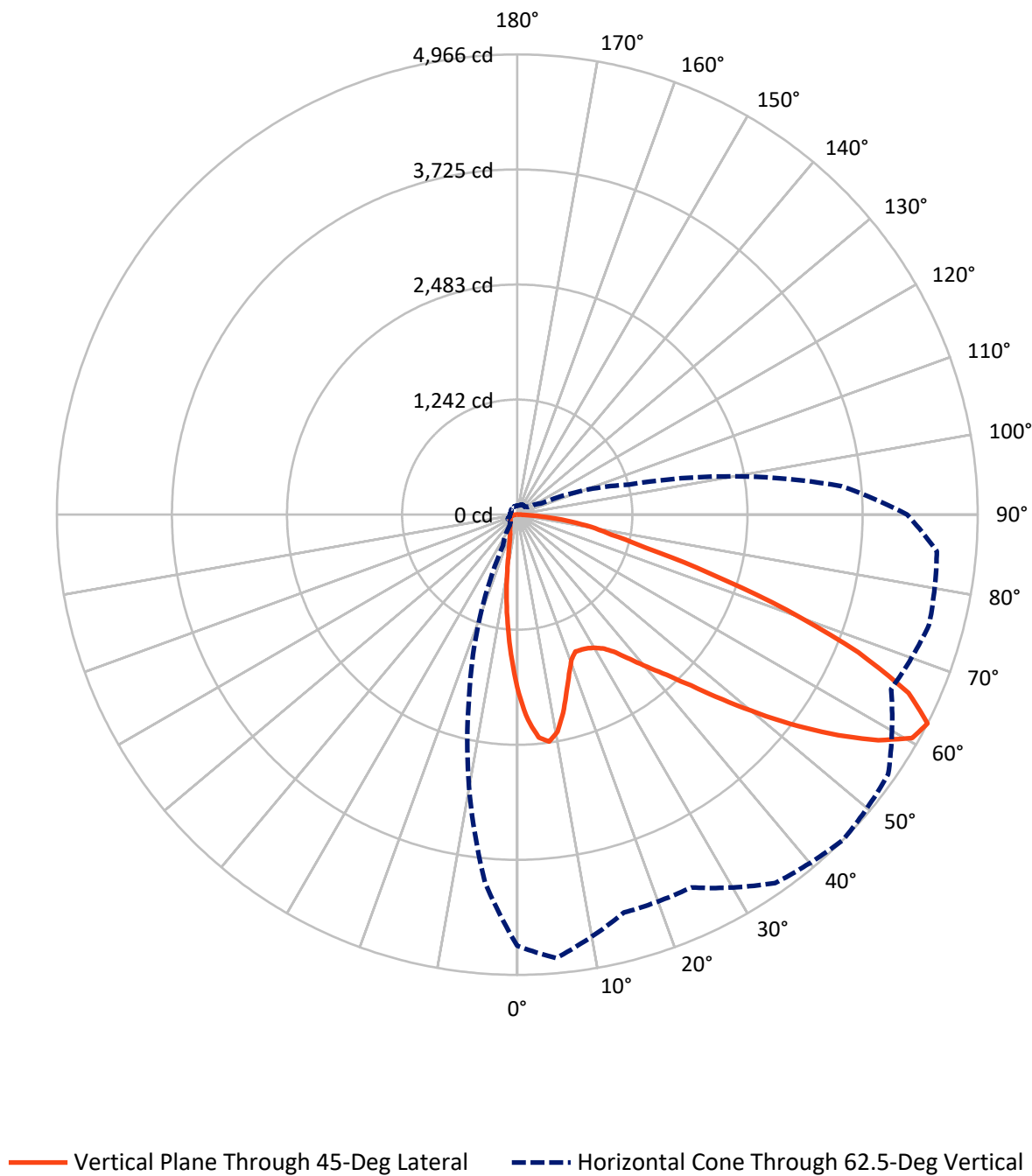


Based on 10 foot mounting height. Maximum calculated value = 22.7 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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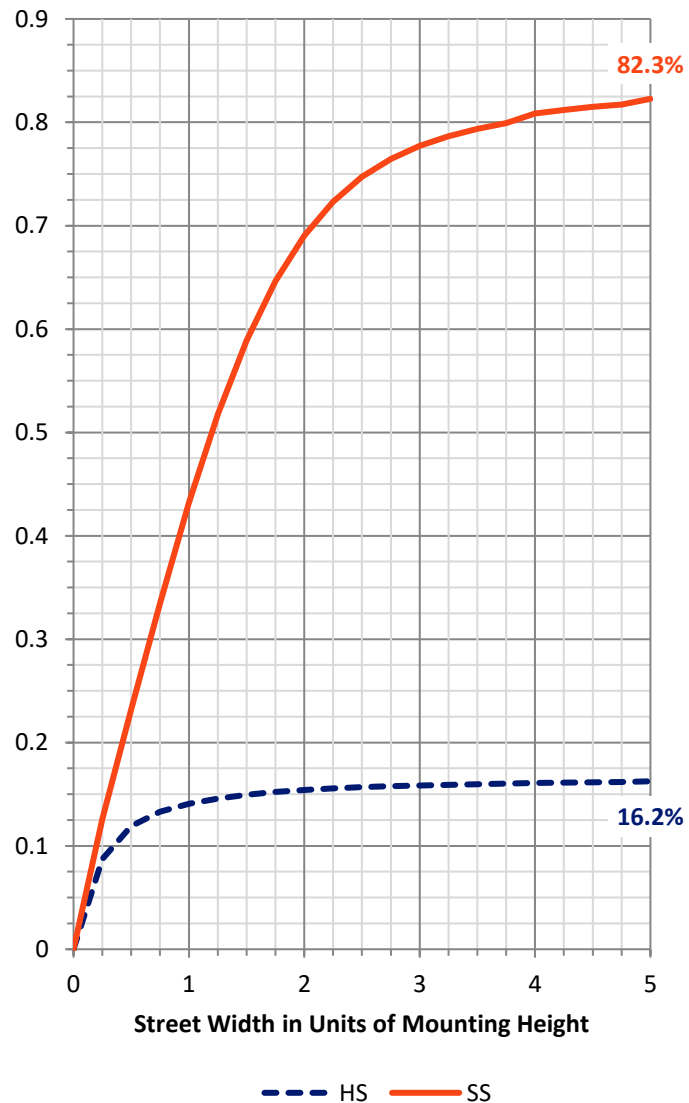
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	946.0	0.0	946.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4770.3	0.0	4770.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	5716.3	0.0	5716.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	2.5
10°-20°	257.8	4.5
20°-30°	375.9	6.6
30°-40°	578.9	10.1
40°-50°	852.0	14.9
50°-60°	1249.7	21.9
60°-70°	1397.0	24.4
70°-80°	683.9	12.0
80°-90°	180.6	3.2
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°	5716.3	100.0
0°-180°	5716.3	100.0

Coefficient of Utilization



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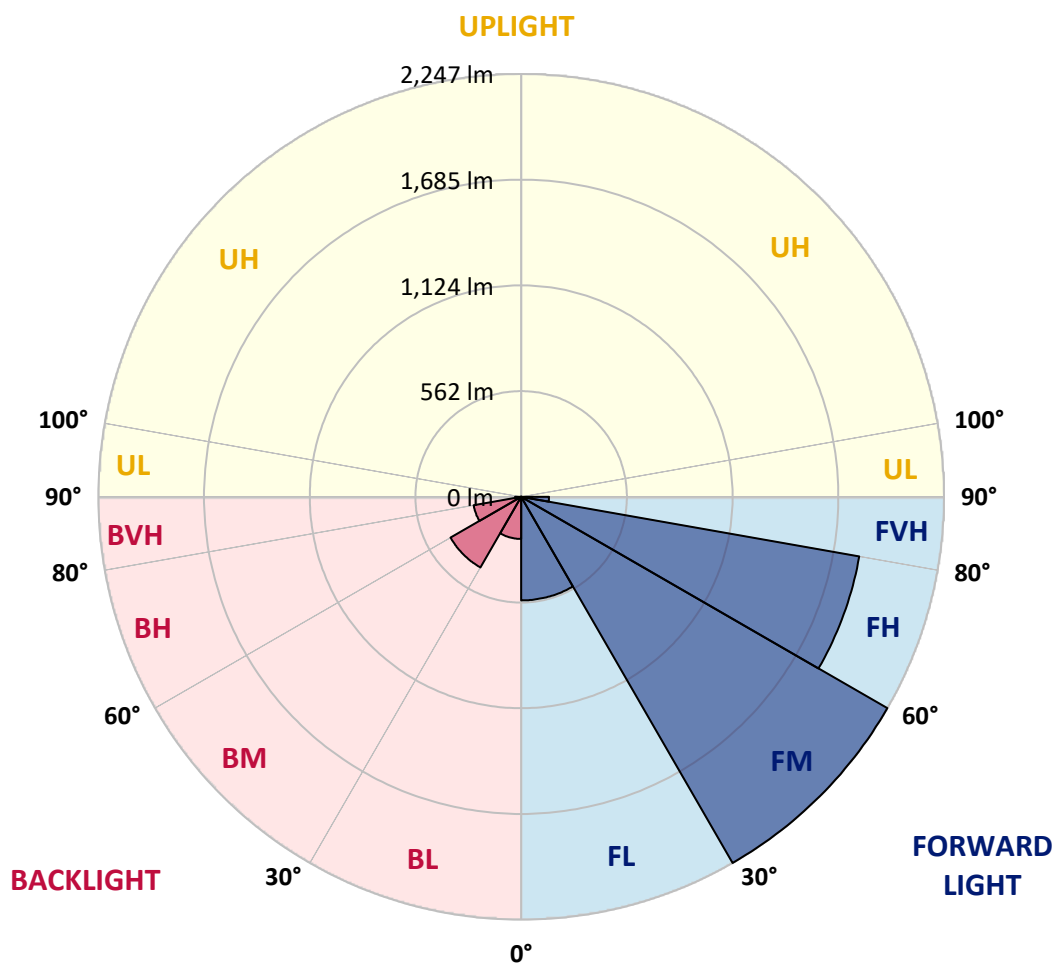
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.5	9.6			
FM	(30°-60°)	2247.1	39.3			
FH	(60°-80°)	1824.4	31.9			G2/5000
FVH	(80°-90°)	148.3	2.6			G2/225
BL	(0°-30°)	223.8	3.9	B1/500		
BM	(30°-60°)	433.4	7.6	B1/1000		
BH	(60°-80°)	256.5	4.5	B1/500		G1/500
BVH	(80°-90°)	32.3	0.6			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	2006.7	2038.7	2101.2	2148.1	2205.0	2218.2	2236.4	2218.5	2186.8	2144.6	2130.8
5°	1886.9	1955.5	2107.2	2240.8	2359.5	2414.9	2430.2	2384.7	2292.6	2171.6	2097.8
7.5°	1694.9	1792.4	1997.8	2194.5	2369.6	2473.0	2470.4	2364.6	2195.3	1998.2	1879.7
10°	1529.3	1640.6	1876.3	2096.2	2281.9	2382.1	2343.5	2208.1	2006.0	1779.2	1650.6
12.5°	1436.6	1545.7	1784.8	2005.7	2161.0	2195.6	2166.0	2033.4	1842.9	1613.6	1501.1
15°	1420.7	1540.4	1748.3	1928.2	2015.1	1985.0	1949.8	1890.4	1755.9	1560.1	1443.0
17.5°	1490.0	1622.1	1790.2	1874.0	1859.3	1806.8	1796.8	1803.4	1771.0	1619.5	1484.4
20°	1623.3	1781.7	1889.8	1848.6	1740.9	1668.5	1671.1	1772.0	1867.8	1770.0	1615.8
22.5°	1810.3	1991.0	2033.4	1862.1	1690.8	1605.1	1625.8	1789.2	2022.1	1990.0	1793.0
25°	2052.2	2216.9	2186.5	1911.2	1695.8	1613.0	1629.6	1848.9	2204.4	2210.0	2012.3
27.5°	2286.6	2439.3	2314.9	1976.2	1716.6	1631.5	1653.5	1942.9	2378.4	2448.8	2263.1
30°	2469.5	2575.8	2365.9	2035.6	1757.5	1667.6	1694.9	2032.1	2457.6	2610.0	2456.0
32.5°	2621.0	2697.3	2446.9	2109.1	1832.6	1724.5	1772.6	2140.5	2571.7	2763.3	2644.8
35°	2814.5	2836.2	2547.8	2191.2	1948.5	1823.5	1883.2	2246.7	2680.3	2918.3	2830.9
37.5°	3041.4	3013.5	2643.0	2303.3	2098.4	1978.4	2027.7	2363.3	2769.9	3093.9	3021.0
40°	3265.8	3198.6	2762.4	2477.4	2317.1	2161.0	2219.4	2487.7	2853.5	3269.9	3206.7
42.5°	3456.6	3356.9	2880.2	2668.8	2520.8	2362.4	2432.2	2613.1	2933.3	3420.0	3368.0
45°	3597.6	3473.8	2992.4	2852.6	2801.4	2630.1	2663.0	2756.8	3019.8	3545.4	3500.5
47.5°	3723.6	3591.4	3119.4	3038.0	3046.8	2978.3	2925.1	2923.9	3121.5	3647.9	3625.8
50°	3892.3	3754.4	3255.7	3229.0	3415.0	3369.5	3252.3	3119.1	3250.4	3764.2	3761.7
52.5°	4124.9	4012.7	3422.3	3434.9	3758.8	3788.7	3643.5	3353.4	3452.2	3977.5	3962.4
55°	4399.8	4334.4	3649.2	3671.5	4180.5	4201.9	4057.6	3646.6	3748.8	4286.4	4244.6
57.5°	4614.4	4600.6	3898.1	3955.5	4495.4	4591.5	4458.9	3986.0	4083.1	4546.6	4441.7
60°	4699.9	4766.8	4162.9	4242.1	4786.7	4893.2	4776.9	4284.2	4379.5	4654.3	4428.1
62.5°	4653.7	4803.4	4445.1	4438.5	4851.8	4966.4	4884.7	4450.1	4599.1	4543.1	4204.1
65°	4440.4	4672.3	4608.8	4387.9	4629.3	4638.7	4612.3	4376.0	4650.9	4191.5	3771.1
67.5°	3975.6	4309.4	4393.3	3954.3	4029.1	3967.8	3923.4	3970.0	4380.7	3664.5	3169.3
70°	3238.2	3740.3	3780.5	3162.8	3128.8	3087.6	2999.3	3254.8	3847.4	3003.4	2514.8
72.5°	2380.9	2908.9	3032.3	2319.6	2162.5	2171.0	2101.2	2452.8	3128.2	2231.1	1877.5
75°	1628.9	2106.3	2372.4	1618.6	1430.1	1433.6	1424.8	1738.0	2491.5	1552.0	1404.9
77.5°	1190.0	1504.9	1789.2	1088.2	1056.4	1037.0	1032.3	1216.1	1910.2	1126.8	1091.0
80°	954.9	1111.7	1202.0	754.1	811.0	809.5	783.4	836.2	1247.5	824.2	816.0
82.5°	662.4	854.4	973.8	591.1	547.4	538.3	544.5	622.8	881.7	563.4	535.7
85°	349.4	567.5	964.3	523.9	324.9	259.2	322.4	510.0	763.9	298.5	261.5
87.5°	44.6	164.0	638.5	209.0	128.2	69.2	153.0	287.2	490.5	61.0	53.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	2095.3	2053.5	1998.8	1948.2	1895.7	1843.6	1775.4	1732.7	1703.1	1697.5	1684.9
5°	2044.4	1905.5	1800.5	1709.8	1627.4	1511.1	1446.8	1393.3	1364.7	1361.9	1355.0
7.5°	1809.6	1618.0	1476.2	1347.7	1231.1	1137.2	1033.5	985.1	965.4	970.1	974.8
10°	1565.5	1351.2	1188.5	1057.1	954.3	875.1	791.9	735.6	696.6	688.8	687.2
12.5°	1387.0	1151.9	993.9	901.2	821.7	747.3	659.0	592.6	542.1	524.8	513.1
15°	1311.6	1054.6	888.9	789.0	701.3	606.8	524.8	455.3	408.8	393.7	385.2
17.5°	1327.6	1027.6	816.7	688.8	576.6	477.9	374.6	315.2	287.2	280.0	280.0
20°	1411.9	1022.5	757.0	596.4	456.5	342.2	257.4	223.4	214.3	213.4	215.8
22.5°	1530.0	1040.1	712.4	516.3	354.8	249.8	200.5	187.9	183.8	184.7	187.6
25°	1706.0	1099.5	680.0	445.0	278.4	204.6	178.8	171.2	169.4	171.9	175.3
27.5°	1914.6	1158.9	659.9	391.2	235.1	187.0	170.0	162.1	163.4	166.5	169.7
30°	2097.8	1207.6	628.2	352.9	221.6	187.9	170.0	159.3	158.0	158.7	159.6
32.5°	2262.2	1240.5	591.1	316.4	191.1	166.8	158.7	157.1	150.2	147.7	148.0
35°	2403.8	1240.5	568.8	295.0	171.2	148.0	134.8	126.9	123.5	123.8	127.3
37.5°	2540.5	1215.8	557.7	283.2	160.6	140.8	129.2	122.2	117.5	116.6	117.2
40°	2661.2	1179.7	545.2	278.1	152.4	136.4	125.4	119.7	114.7	113.1	113.4
42.5°	2758.0	1150.4	531.3	271.5	147.4	133.2	122.9	117.8	112.2	110.6	110.3
45°	2862.6	1140.7	513.1	258.3	149.9	133.6	122.2	116.9	111.2	109.4	108.7
47.5°	3000.6	1171.2	494.3	242.5	155.2	135.1	123.2	116.9	110.9	109.4	108.7
50°	3174.3	1242.8	470.4	219.6	149.9	139.5	122.9	115.9	110.9	109.4	108.1
52.5°	3397.4	1339.6	438.9	193.2	146.8	150.2	122.2	114.1	109.4	107.1	105.0
55°	3668.6	1418.7	401.6	171.5	139.5	147.4	121.3	111.9	106.8	103.7	101.8
57.5°	3867.3	1447.4	353.5	157.4	129.5	142.7	120.0	109.0	103.7	101.2	98.7
60°	3828.0	1392.0	313.0	148.6	123.5	128.8	119.1	106.5	100.9	99.0	96.8
62.5°	3513.4	1247.5	286.9	144.5	119.7	117.5	120.0	104.0	98.3	96.5	95.9
65°	3041.7	1034.1	276.5	143.6	116.6	110.9	111.5	101.2	95.5	93.9	93.3
67.5°	2509.1	834.6	267.4	146.8	112.5	106.2	103.1	97.4	92.7	91.1	89.9
70°	1978.7	694.2	263.3	144.8	107.5	101.5	98.0	93.3	89.2	87.7	86.7
72.5°	1593.5	586.4	261.2	143.0	100.9	95.2	92.1	88.0	83.6	83.0	82.0
75°	1348.4	460.9	239.2	137.0	93.3	87.7	85.5	81.7	77.3	77.3	76.7
77.5°	1040.1	333.4	198.9	121.3	85.5	79.2	77.3	74.5	69.5	70.4	70.1
80°	768.3	217.5	155.6	100.6	75.7	69.8	68.8	66.0	60.7	61.9	61.9
82.5°	526.3	142.7	111.9	82.3	64.8	59.0	59.0	56.3	50.2	50.9	52.8
85°	264.2	98.0	83.6	63.8	50.2	47.5	47.5	45.2	39.3	39.6	42.1
87.5°	80.4	59.0	55.3	45.5	36.1	35.5	34.0	32.3	28.6	28.2	29.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	1665.8	1647.9	1626.2	1578.4	1562.4	1561.4	1575.9	1560.8	1589.7	1577.4	1591.0
5°	1343.3	1325.7	1301.5	1240.5	1203.5	1178.3	1166.5	1131.2	1156.7	1138.1	1153.6
7.5°	988.0	992.1	976.0	940.2	859.4	818.9	795.0	773.7	792.2	790.3	819.8
10°	694.5	705.4	694.2	658.0	592.6	570.3	574.7	583.2	607.4	620.0	665.5
12.5°	499.9	499.3	492.0	459.7	416.6	419.2	437.1	451.8	474.1	487.3	533.9
15°	373.3	367.6	364.5	338.1	313.6	319.0	327.8	329.3	343.4	351.3	389.0
17.5°	282.1	285.0	288.5	269.6	251.0	247.7	240.7	232.2	236.3	237.8	256.8
20°	224.0	235.4	243.9	230.7	211.8	201.7	192.9	187.3	187.3	187.0	192.3
22.5°	195.8	204.0	213.1	204.0	187.0	178.2	173.2	168.8	168.1	168.1	173.2
25°	180.3	186.4	195.2	188.8	176.3	169.7	165.0	159.3	157.1	156.5	160.0
27.5°	172.8	175.3	179.7	174.1	163.4	160.3	159.0	154.0	151.2	149.6	153.0
30°	160.0	159.3	159.6	154.0	145.5	145.2	147.4	148.3	147.4	147.1	152.4
32.5°	148.0	146.8	146.4	141.4	133.6	131.7	133.6	135.4	137.6	140.8	147.1
35°	132.9	136.1	138.0	133.6	124.1	118.5	116.3	112.8	110.9	110.9	118.2
37.5°	121.0	128.2	131.0	126.9	116.6	108.7	105.0	104.3	104.6	105.9	112.8
40°	116.9	122.2	124.8	120.7	110.3	103.1	100.9	100.2	100.9	102.7	109.7
42.5°	114.4	118.2	117.8	112.8	104.3	99.3	98.0	97.4	98.0	99.9	107.5
45°	112.2	114.7	112.2	106.2	98.3	95.9	96.2	95.9	96.5	98.3	105.6
47.5°	110.3	111.2	108.1	102.1	93.9	93.3	94.6	95.5	96.2	97.7	105.3
50°	107.5	107.5	104.6	98.3	90.2	90.5	92.1	94.3	94.6	96.5	102.4
52.5°	104.0	103.7	101.8	95.9	87.1	88.0	88.0	90.5	91.1	93.3	99.6
55°	101.2	100.6	99.6	93.9	84.2	85.8	84.8	85.8	87.4	89.5	96.5
57.5°	98.7	97.4	97.4	92.4	82.0	82.7	80.4	81.7	83.6	85.5	92.7
60°	96.2	94.9	95.5	90.2	78.6	77.9	77.0	79.5	80.1	82.3	89.5
62.5°	93.3	92.4	92.7	87.7	76.0	74.5	74.5	76.7	77.0	80.1	87.1
65°	91.1	89.9	89.5	85.1	73.2	71.3	72.3	73.2	73.9	77.0	83.6
67.5°	88.9	86.4	86.4	83.0	70.1	68.2	70.1	69.8	70.7	73.6	78.9
70°	86.1	82.7	83.0	81.4	66.9	64.8	66.3	66.0	66.6	68.5	73.9
72.5°	81.7	78.9	79.5	78.9	63.8	60.7	61.3	61.3	61.3	62.8	68.5
75°	76.0	73.9	75.7	77.3	60.0	55.6	56.3	56.3	55.3	56.3	63.1
77.5°	69.2	67.9	74.2	71.9	55.6	50.2	50.2	49.6	47.8	49.0	56.6
80°	61.6	60.7	68.5	60.4	50.6	43.7	43.1	41.4	39.6	40.5	48.1
82.5°	53.7	52.8	57.5	46.2	43.7	36.1	34.6	31.7	29.9	30.8	37.7
85°	44.0	44.0	44.3	34.9	33.3	27.6	25.8	22.0	19.8	20.5	27.0
87.5°	31.4	32.3	29.9	23.8	19.8	15.4	14.1	12.0	10.0	11.7	14.1
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	1660.0	1694.6	1733.9	1784.2	1827.3	1898.0	1965.8	2006.7
5°	1241.2	1298.7	1370.3	1462.4	1548.2	1677.0	1804.9	1886.9
7.5°	888.3	949.9	1027.2	1142.2	1263.5	1427.8	1596.9	1694.9
10°	735.0	798.1	863.2	940.8	1040.1	1218.9	1418.7	1529.3
12.5°	608.0	675.6	745.6	827.4	919.4	1079.1	1309.4	1436.6
15°	465.3	540.8	623.4	726.8	842.1	1026.6	1282.4	1420.7
17.5°	319.0	403.1	504.6	632.2	773.4	1009.7	1330.8	1490.0
20°	219.6	280.9	389.3	538.9	708.6	1007.4	1423.7	1623.3
22.5°	183.8	211.1	290.3	453.2	659.9	1034.4	1568.0	1810.3
25°	170.0	186.4	231.9	378.7	624.4	1096.7	1766.6	2052.2
27.5°	161.8	176.6	210.5	329.9	596.4	1168.9	1959.9	2286.6
30°	165.0	180.0	204.6	305.1	558.4	1229.3	2131.4	2469.5
32.5°	148.6	155.2	175.3	283.2	531.0	1279.8	2281.6	2621.0
35°	126.6	138.3	156.5	272.7	531.6	1313.8	2445.4	2814.5
37.5°	120.7	132.3	145.5	268.9	538.9	1349.9	2633.3	3041.4
40°	116.9	127.6	138.9	266.8	545.8	1382.9	2817.4	3265.8
42.5°	114.4	124.1	138.3	259.2	549.3	1412.5	2968.8	3456.6
45°	114.1	124.1	140.8	251.7	554.6	1444.2	3095.8	3597.6
47.5°	114.4	128.2	136.1	242.5	554.6	1497.3	3244.7	3723.6
50°	113.1	135.1	131.0	229.7	541.8	1597.8	3449.0	3892.3
52.5°	112.5	134.2	121.3	209.9	519.5	1757.5	3710.8	4124.9
55°	110.9	129.5	114.4	180.3	493.4	1931.5	3991.0	4399.8
57.5°	109.4	114.7	110.6	154.6	453.2	2054.1	4184.0	4614.4
60°	122.5	100.2	107.5	142.0	399.4	2087.7	4176.4	4699.9
62.5°	113.4	93.9	103.4	139.2	361.7	1993.4	3983.5	4653.7
65°	88.9	89.9	99.3	147.4	351.6	1743.6	3641.6	4440.4
67.5°	81.4	85.8	95.2	157.7	352.6	1396.1	3130.6	3975.6
70°	76.7	81.4	90.5	163.1	355.1	1040.8	2475.2	3238.2
72.5°	71.3	75.4	85.1	164.0	338.7	756.1	1907.7	2380.9
75°	65.1	68.8	77.6	143.0	280.6	524.5	1459.2	1628.9
77.5°	57.8	60.7	68.2	110.3	208.4	335.6	1095.4	1190.0
80°	49.3	50.9	57.2	80.7	142.7	209.9	866.6	954.9
82.5°	39.6	40.2	44.3	60.7	92.7	134.8	580.4	662.4
85°	27.9	27.9	30.5	44.0	63.1	85.5	315.2	349.4
87.5°	13.2	13.5	13.5	24.2	33.0	43.4	72.6	44.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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