

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: P386252

Luminaire Tested: GAW-SA1D-827-U-SLR-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-827-U-SLR-HSS
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4517 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 66
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

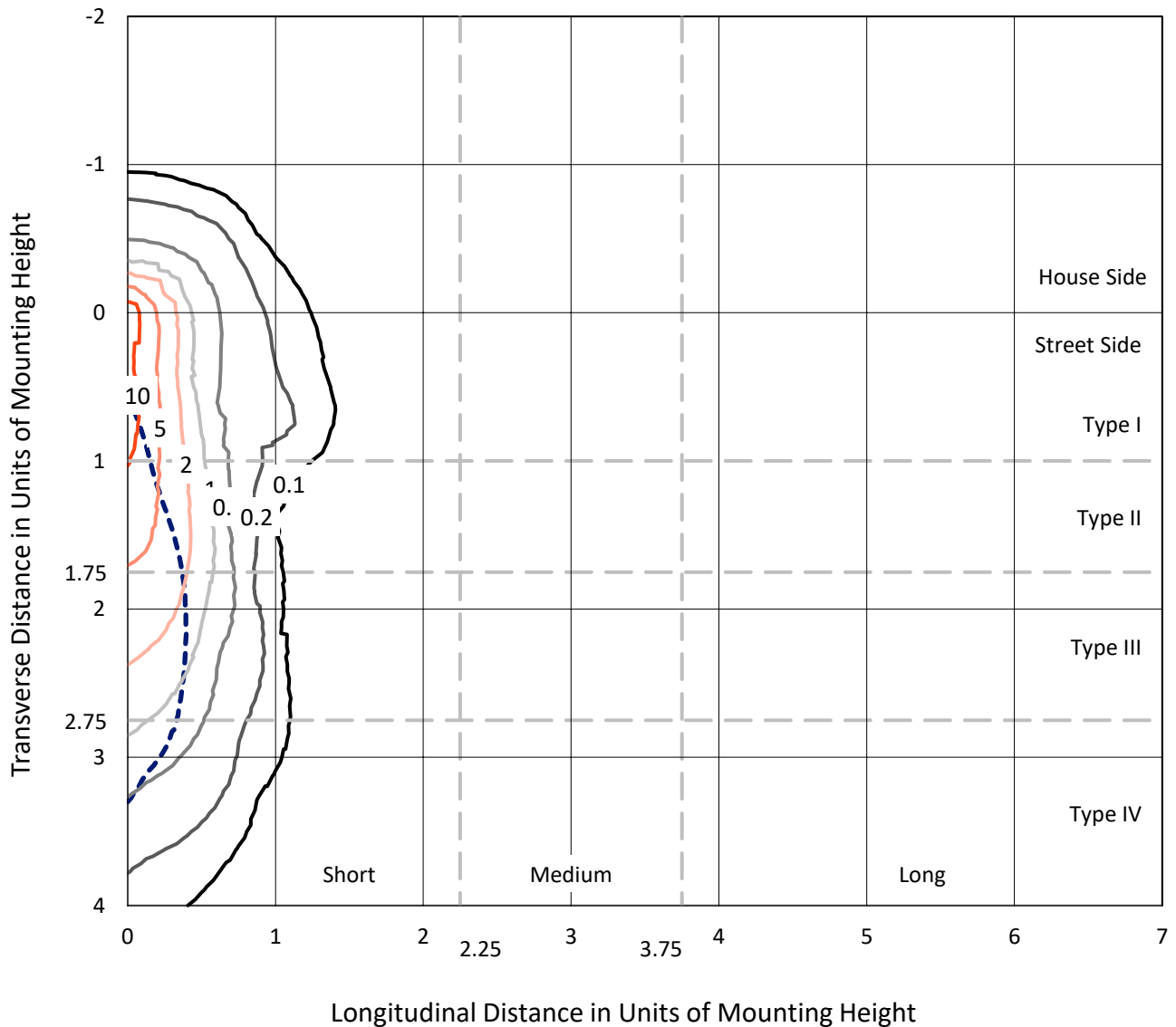




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Iso-Footcandle Lines of Horizontal Illumination

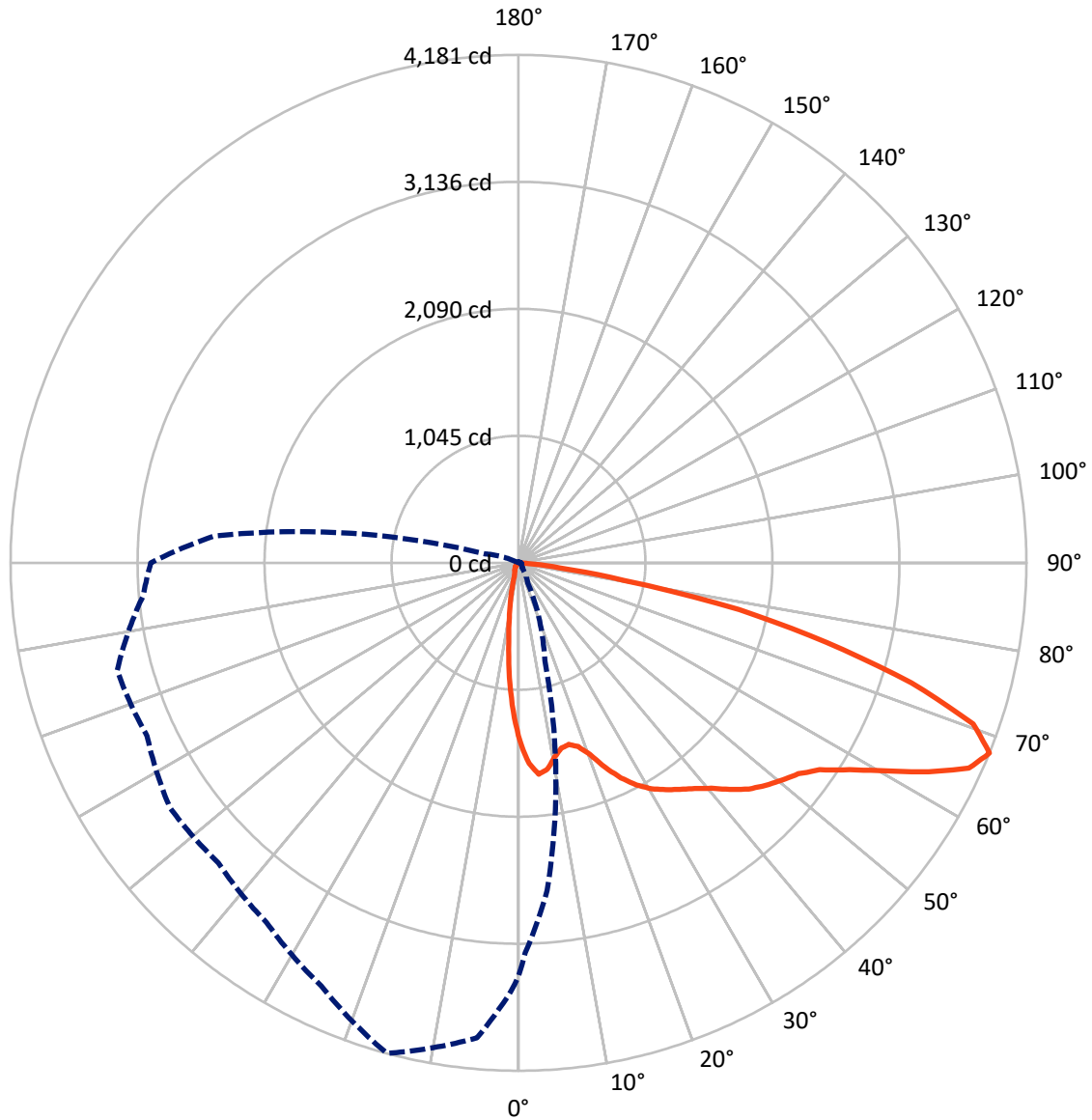
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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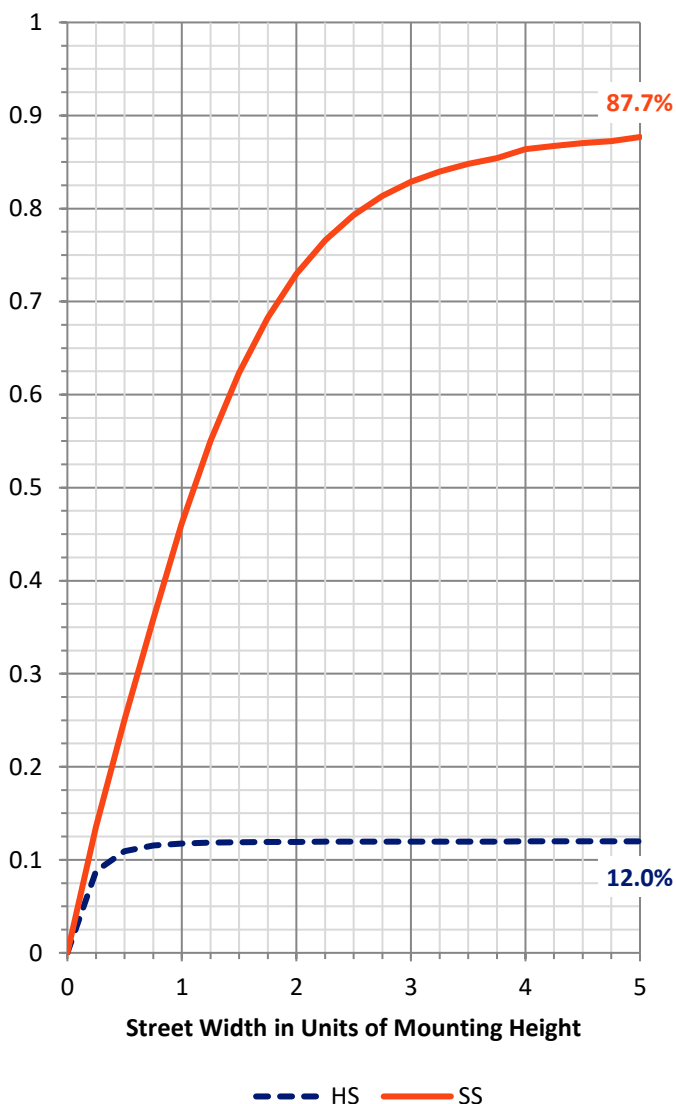
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	546.7	0.0	546.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	3970.3	0.0	3970.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	4517.0	0.0	4517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	2.5
10°-20°	224.8	5.0
20°-30°	319.2	7.1
30°-40°	471.5	10.4
40°-50°	680.0	15.1
50°-60°	954.5	21.1
60°-70°	1112.7	24.6
70°-80°	568.8	12.6
80°-90°	72.6	1.6
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°	4517.0	100.0
0°-180°	4517.0	100.0

Coefficient of Utilization

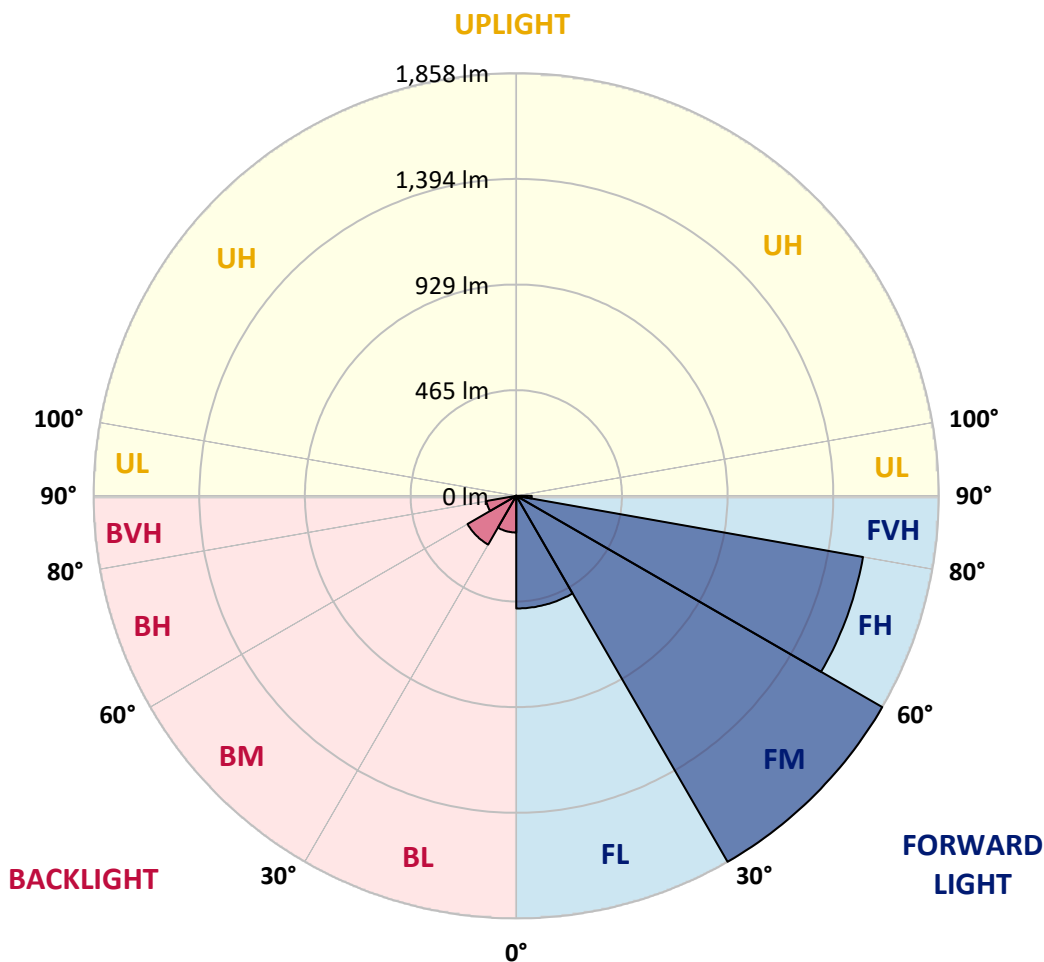


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	495.4	11.0			
FM (30°-60°)	1858.4	41.1			
FH (60°-80°)	1548.3	34.3			G1/1800
FVH (80°-90°)	68.2	1.5			G1/100
BL (0°-30°)	161.5	3.6	B1/500		
BM (30°-60°)	247.6	5.5	B1/1000		
BH (60°-80°)	133.2	2.9	B1/500		G1/500
BVH (80°-90°)	4.4	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-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4
2.5°	1611.1	1598.7	1585.0	1540.3	1498.8	1451.3	1412.6	1385.6	1351.8	1307.9	1296.8
5°	1599.6	1586.3	1543.3	1443.8	1356.7	1272.0	1190.2	1142.3	1082.8	1022.5	1007.5
7.5°	1483.4	1469.5	1407.4	1271.1	1153.8	1031.4	925.3	859.6	792.4	737.2	707.9
10°	1362.5	1347.3	1277.5	1112.1	967.7	857.0	779.1	716.4	652.9	593.8	546.7
12.5°	1279.2	1259.3	1183.6	996.1	870.3	795.2	722.4	647.3	561.3	498.0	446.2
15°	1244.4	1221.7	1141.6	951.4	835.9	747.7	652.9	560.7	459.9	387.3	339.8
17.5°	1271.3	1241.8	1156.0	948.4	792.6	672.6	552.7	444.5	335.1	261.7	227.9
20°	1362.9	1324.2	1215.3	947.6	740.2	583.3	431.4	309.0	220.8	177.6	159.9
22.5°	1507.1	1456.0	1300.4	954.4	686.1	489.6	311.6	209.9	165.8	143.4	132.9
25°	1681.3	1622.1	1423.0	978.6	638.6	398.5	226.4	165.8	140.0	123.5	114.7
27.5°	1847.0	1798.8	1578.0	1013.5	601.7	324.8	183.8	140.6	119.6	108.7	101.6
30°	2012.4	1951.8	1737.0	1055.0	557.4	275.0	161.6	128.2	107.2	95.7	91.2
32.5°	2132.6	2082.3	1861.5	1084.9	510.2	242.5	144.4	117.3	100.1	88.4	81.7
35°	2274.1	2217.2	1968.3	1091.6	479.8	221.9	129.9	105.5	86.9	76.4	69.3
37.5°	2426.9	2356.0	2091.6	1077.0	456.0	211.9	119.0	100.1	81.1	70.4	62.9
40°	2595.9	2515.9	2209.9	1056.0	432.7	208.4	110.6	96.1	76.6	65.7	58.0
42.5°	2774.0	2679.6	2312.4	1034.0	417.9	196.7	109.8	92.0	73.2	61.4	53.7
45°	2923.5	2827.9	2417.7	1026.7	407.4	183.8	113.4	89.2	70.8	58.0	50.5
47.5°	3042.7	2952.2	2525.5	1043.0	401.4	172.0	103.4	92.9	69.5	55.0	47.7
50°	3185.0	3082.5	2677.5	1091.6	392.7	160.3	93.5	106.4	69.5	53.1	45.4
52.5°	3363.5	3262.1	2846.9	1166.9	375.1	144.0	84.1	106.6	70.2	50.5	42.4
55°	3588.0	3514.4	3089.0	1249.5	347.1	120.0	72.8	91.6	67.6	45.8	39.6
57.5°	3803.3	3743.1	3309.6	1306.0	309.6	93.7	63.3	73.8	61.8	40.2	35.3
59°	3862.1	3796.4	3390.5	1308.6	281.6	81.7	58.6	61.0	60.6	37.7	32.7
60°	3862.1	3792.4	3413.8	1294.9	261.3	75.1	55.6	54.4	63.1	36.0	31.2
62.5°	3792.1	3694.1	3338.1	1202.2	213.1	64.0	48.6	44.9	56.7	32.3	27.6
65°	3646.6	3503.9	3080.0	1034.6	190.0	58.6	41.9	36.8	39.4	28.5	24.2
67.5°	3404.0	3210.5	2707.8	835.9	180.8	57.1	36.2	31.2	29.7	24.4	21.2
70°	2976.6	2762.0	2256.1	657.2	172.9	56.5	30.4	26.3	24.0	20.5	18.0
72.5°	2166.4	1942.6	1601.7	513.8	168.2	57.8	24.4	22.0	19.7	16.0	13.9
75°	1239.2	1092.6	900.3	339.4	143.4	55.2	18.8	18.4	14.1	11.6	9.6
77.5°	640.3	620.8	539.5	130.3	68.7	24.2	12.4	10.7	8.3	7.1	5.8
80°	276.3	273.3	236.5	37.7	18.2	13.5	7.1	4.5	3.9	3.0	2.4
82.5°	95.4	95.4	84.1	12.6	8.1	6.6	0.9	0.0	0.0	0.0	0.0
85°	19.3	21.6	15.2	0.0	2.8	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4
2.5°	1283.3	1257.4	1255.7	1239.4	1219.1	1209.9	1204.6	1214.0	1225.5	1226.8	1244.1
5°	996.1	969.0	980.3	951.4	957.2	951.4	942.0	943.7	948.8	932.8	952.7
7.5°	699.5	679.0	692.0	684.3	694.6	698.7	692.9	684.3	659.1	656.1	673.4
10°	527.3	503.9	490.0	475.5	478.7	485.3	483.2	477.0	460.9	461.8	478.5
12.5°	423.7	397.6	370.0	334.3	325.5	330.4	325.5	321.8	306.4	307.7	322.5
15°	321.4	300.0	271.1	242.5	226.8	228.3	214.6	205.0	195.4	183.8	192.8
17.5°	217.0	203.9	195.4	186.8	168.2	163.9	146.6	128.0	120.7	115.3	119.2
20°	153.6	146.6	143.2	142.7	132.0	126.7	109.8	98.2	94.6	93.5	95.9
22.5°	128.4	123.3	118.3	115.6	110.2	104.0	91.2	85.4	82.8	81.5	83.2
25°	111.7	107.9	102.7	98.0	95.9	89.2	80.0	75.8	74.0	72.8	73.6
27.5°	99.3	95.9	89.9	86.9	85.2	79.4	71.5	68.0	66.6	66.1	65.9
30°	89.4	86.2	80.7	77.3	74.3	69.1	64.4	61.0	59.5	59.1	58.6
32.5°	79.6	77.0	73.4	70.0	66.8	62.1	58.0	55.2	52.9	52.4	52.2
35°	67.2	64.6	62.7	62.5	59.5	55.0	52.0	48.4	46.4	45.8	46.0
37.5°	59.7	56.3	52.0	53.5	52.6	49.4	45.4	41.7	39.8	39.4	39.4
40°	55.0	51.4	46.4	43.9	46.4	45.8	39.4	35.7	33.8	33.6	33.2
42.5°	50.5	46.9	41.3	37.0	38.3	40.2	34.0	30.6	28.7	28.2	27.6
45°	47.3	43.4	37.2	32.3	29.7	33.8	29.1	24.8	23.8	22.9	22.5
47.5°	44.3	40.7	33.6	28.0	23.8	24.4	23.3	20.3	19.0	18.2	18.0
50°	41.7	37.9	30.4	24.0	19.7	18.0	18.8	16.0	15.0	14.1	13.7
52.5°	38.7	35.1	27.0	20.8	16.5	14.1	14.3	12.6	11.6	10.9	10.7
55°	36.4	32.7	24.2	18.2	14.6	11.6	10.3	9.8	9.2	8.8	8.6
57.5°	33.2	29.7	21.4	15.4	12.4	9.4	7.9	7.9	7.7	7.3	7.1
59°	31.2	28.2	19.7	13.9	11.3	8.1	7.1	7.3	7.1	6.6	6.4
60°	29.7	27.0	18.4	12.8	10.7	7.5	6.4	6.8	6.6	6.2	6.0
62.5°	26.3	24.4	15.8	10.7	9.4	6.0	5.3	5.8	5.8	5.6	5.3
65°	23.1	21.0	13.5	9.0	8.8	5.1	4.3	5.1	5.3	4.9	4.5
67.5°	20.1	18.0	11.8	7.3	8.1	4.1	3.2	4.3	5.8	4.5	4.1
70°	17.1	15.0	9.2	5.8	8.6	2.8	2.6	3.9	6.8	4.9	3.9
72.5°	13.3	11.6	6.4	4.3	9.2	1.9	1.9	3.2	7.7	5.3	3.6
75°	9.2	7.5	3.9	2.6	7.5	1.3	1.3	3.0	7.3	4.9	3.4
77.5°	5.3	4.1	1.3	0.2	3.9	0.0	0.2	2.1	5.1	3.0	1.5
80°	1.9	0.9	0.0	0.0	2.4	0.0	0.0	0.0	0.4	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4
2.5°	1248.6	1277.5	1303.4	1342.6	1389.0	1442.5	1488.5	1538.0	1584.4	1603.7	1616.9
5°	956.8	992.5	1034.2	1091.8	1168.4	1262.8	1351.1	1451.1	1558.5	1612.2	1662.7
7.5°	676.4	712.8	764.6	825.8	918.5	1030.8	1146.4	1284.4	1429.9	1514.8	1598.5
10°	486.4	531.1	579.5	663.2	757.3	863.9	982.9	1136.9	1299.1	1393.3	1494.1
12.5°	331.0	382.0	455.2	548.9	659.5	763.9	867.3	1014.3	1202.6	1295.9	1404.0
15°	198.6	226.8	304.3	412.8	548.5	678.6	791.8	939.2	1139.9	1254.2	1366.5
17.5°	122.4	135.5	177.6	266.6	409.2	573.7	728.9	913.7	1148.9	1288.0	1408.3
20°	97.6	102.7	116.2	157.5	271.1	458.2	658.0	908.6	1222.3	1393.5	1522.5
22.5°	84.7	89.7	98.7	114.5	170.6	343.0	590.8	913.3	1327.6	1551.7	1702.3
25°	74.7	79.0	87.5	100.6	125.0	241.6	518.9	934.3	1464.8	1747.9	1907.9
27.5°	66.8	70.4	78.3	90.3	107.2	168.6	437.4	959.8	1627.4	1948.6	2106.5
30°	59.5	62.7	69.8	80.9	93.1	129.7	347.9	977.1	1790.3	2106.5	2248.4
32.5°	53.3	55.6	62.1	71.5	80.9	103.4	264.5	974.3	1911.2	2237.9	2350.5
35°	46.9	49.2	54.8	62.9	70.4	85.4	208.0	922.3	2016.4	2374.2	2467.3
37.5°	39.8	42.8	48.1	55.4	60.6	75.1	168.2	859.6	2123.2	2530.0	2597.6
40°	33.8	36.8	41.5	49.4	52.6	71.3	129.3	783.2	2243.3	2704.2	2740.6
42.5°	28.0	30.8	35.7	42.6	49.6	61.4	95.7	695.9	2358.6	2853.1	2870.9
45°	22.7	25.5	30.6	37.4	53.1	50.9	74.0	602.4	2451.7	2977.0	2982.8
47.5°	18.0	20.5	25.9	35.3	49.4	40.7	52.9	529.0	2529.8	3073.8	3058.6
50°	13.9	16.0	21.6	40.4	43.2	33.6	40.0	504.6	2599.8	3133.7	3094.3
52.5°	10.9	12.8	17.8	37.9	33.6	27.8	33.6	527.5	2695.6	3183.3	3114.4
55°	8.8	10.7	13.9	21.6	22.9	23.5	28.7	548.9	2861.1	3299.7	3233.2
57.5°	7.3	9.2	11.3	15.2	17.3	19.9	25.5	551.2	3056.0	3493.2	3430.3
59°	6.6	8.3	10.3	13.5	15.2	18.2	24.0	538.4	3124.7	3563.6	3532.1
60°	6.2	7.9	9.6	12.4	14.1	17.1	23.1	526.2	3127.7	3561.0	3575.6
62.5°	5.3	7.1	8.6	10.5	12.0	14.6	20.8	481.1	3001.0	3444.4	3549.5
65°	4.7	6.2	7.7	9.0	10.3	13.1	18.8	398.7	2784.7	3256.3	3370.8
67.5°	4.3	5.3	7.1	7.9	9.2	11.6	16.7	284.2	2514.4	3026.3	3100.5
70°	3.9	5.1	6.4	7.3	8.3	10.1	14.3	163.3	2123.2	2689.4	2742.3
72.5°	3.6	4.9	5.8	6.8	7.5	9.0	13.1	76.8	1554.6	2154.5	2292.5
75°	3.2	4.5	5.3	6.4	7.1	8.1	11.1	36.8	1034.0	1559.1	1716.0
77.5°	1.9	3.6	4.9	5.8	6.2	7.1	9.2	21.2	659.9	1079.2	1271.1
80°	0.0	1.3	3.6	4.9	5.3	6.0	7.1	16.7	353.1	616.5	740.0
82.5°	0.0	0.0	2.6	3.9	3.6	4.1	5.3	10.5	159.2	402.9	454.1
85°	0.0	0.0	0.9	3.0	2.6	1.9	3.6	3.6	34.9	203.9	254.4
87.5°	0.0	0.0	0.0	0.2	1.3	0.9	1.5	0.4	0.2	15.2	61.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4
2.5°	1663.4	1679.2	1705.9	1718.6	1712.4	1686.0	1654.6	1622.5	1603.7	1611.1
5°	1765.6	1847.2	1894.3	1909.9	1883.8	1824.7	1747.5	1645.6	1609.4	1599.6
7.5°	1765.6	1919.1	2016.2	2033.3	1975.1	1859.4	1714.5	1555.5	1502.6	1483.4
10°	1703.6	1912.4	2047.9	2075.1	1993.8	1820.6	1626.5	1445.1	1382.4	1362.5
12.5°	1633.6	1858.5	2001.2	2038.7	1971.9	1782.1	1565.6	1370.4	1296.6	1279.2
15°	1590.6	1792.2	1910.3	1937.5	1909.2	1759.7	1551.0	1347.9	1261.1	1244.4
17.5°	1606.0	1740.8	1783.4	1799.2	1818.3	1751.7	1590.6	1397.1	1287.2	1271.3
20°	1664.0	1686.7	1664.6	1684.5	1735.9	1759.4	1685.0	1516.1	1384.1	1362.9
22.5°	1762.4	1658.6	1596.8	1604.7	1667.2	1784.9	1829.2	1686.0	1533.7	1507.1
25°	1877.1	1681.3	1559.1	1552.1	1616.3	1818.5	1961.0	1870.9	1710.6	1681.3
27.5°	2021.4	1732.3	1551.4	1544.4	1598.5	1850.0	2070.6	2053.7	1897.0	1847.0
30°	2132.6	1782.3	1574.3	1558.1	1616.3	1871.8	2158.5	2208.8	2045.5	2012.4
32.5°	2212.5	1841.4	1611.6	1588.0	1666.4	1909.4	2226.4	2350.9	2182.9	2132.6
35°	2273.2	1905.6	1671.7	1633.0	1735.3	1966.6	2289.9	2502.2	2329.1	2274.1
37.5°	2330.2	1995.7	1765.6	1719.4	1843.3	2058.6	2357.1	2673.8	2492.6	2426.9
40°	2409.5	2097.8	1910.5	1869.4	2025.0	2184.0	2441.0	2852.7	2678.5	2595.9
42.5°	2488.9	2207.3	2058.8	2069.9	2251.6	2336.4	2549.3	3041.9	2862.1	2774.0
45°	2561.5	2320.3	2270.0	2321.4	2462.0	2503.5	2656.9	3151.2	3008.7	2923.5
47.5°	2626.1	2461.5	2479.9	2616.7	2701.2	2654.8	2737.4	3245.6	3117.9	3042.7
50°	2701.2	2644.3	2756.6	2950.1	2976.6	2791.7	2810.6	3357.3	3245.4	3185.0
52.5°	2783.4	2836.9	3063.1	3233.6	3225.1	2940.5	2884.2	3482.5	3420.2	3363.5
55°	2876.7	2992.5	3332.9	3499.0	3491.7	3106.5	3006.2	3637.2	3639.4	3588.0
57.5°	3015.1	3126.4	3516.1	3713.6	3725.8	3298.2	3212.9	3810.5	3837.5	3803.3
59°	3114.4	3213.3	3588.6	3803.3	3852.9	3446.5	3363.9	3911.1	3893.4	3862.1
60°	3188.0	3268.5	3624.6	3850.1	3926.7	3547.1	3475.4	3970.2	3900.0	3862.1
62.5°	3370.1	3388.8	3689.4	3903.2	4011.7	3770.5	3789.1	4070.8	3854.0	3792.1
65°	3455.1	3464.7	3688.6	3808.2	3929.5	3944.5	4073.8	4073.8	3741.6	3646.6
67.5°	3419.6	3373.1	3505.6	3493.2	3614.3	3841.1	4180.7	3924.4	3526.8	3404.0
70°	3130.7	2952.0	2893.2	2898.5	2991.2	3341.0	3968.9	3484.8	3120.2	2976.6
72.5°	2604.9	2176.3	2031.0	2196.8	2221.0	2567.7	3382.3	2624.4	2301.0	2166.4
75°	2095.2	1534.1	1297.9	1472.9	1514.0	1879.1	2616.5	1634.5	1344.1	1239.2
77.5°	1505.2	1101.2	931.3	919.1	972.2	1191.7	1856.6	822.6	686.1	640.3
80°	855.1	724.8	780.4	736.3	763.1	745.1	882.1	360.8	295.5	276.3
82.5°	516.1	428.4	463.9	386.3	488.8	425.6	339.8	115.6	100.4	95.4
85°	335.8	234.1	122.0	81.7	168.4	272.0	76.0	31.5	24.2	19.3
87.5°	115.8	59.7	6.0	2.6	18.0	50.7	2.8	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

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