

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: P386336

Luminaire Tested: GAW-SA2A-727-U-SLR-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386336
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-SA2A-727-U-SLR-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6029 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

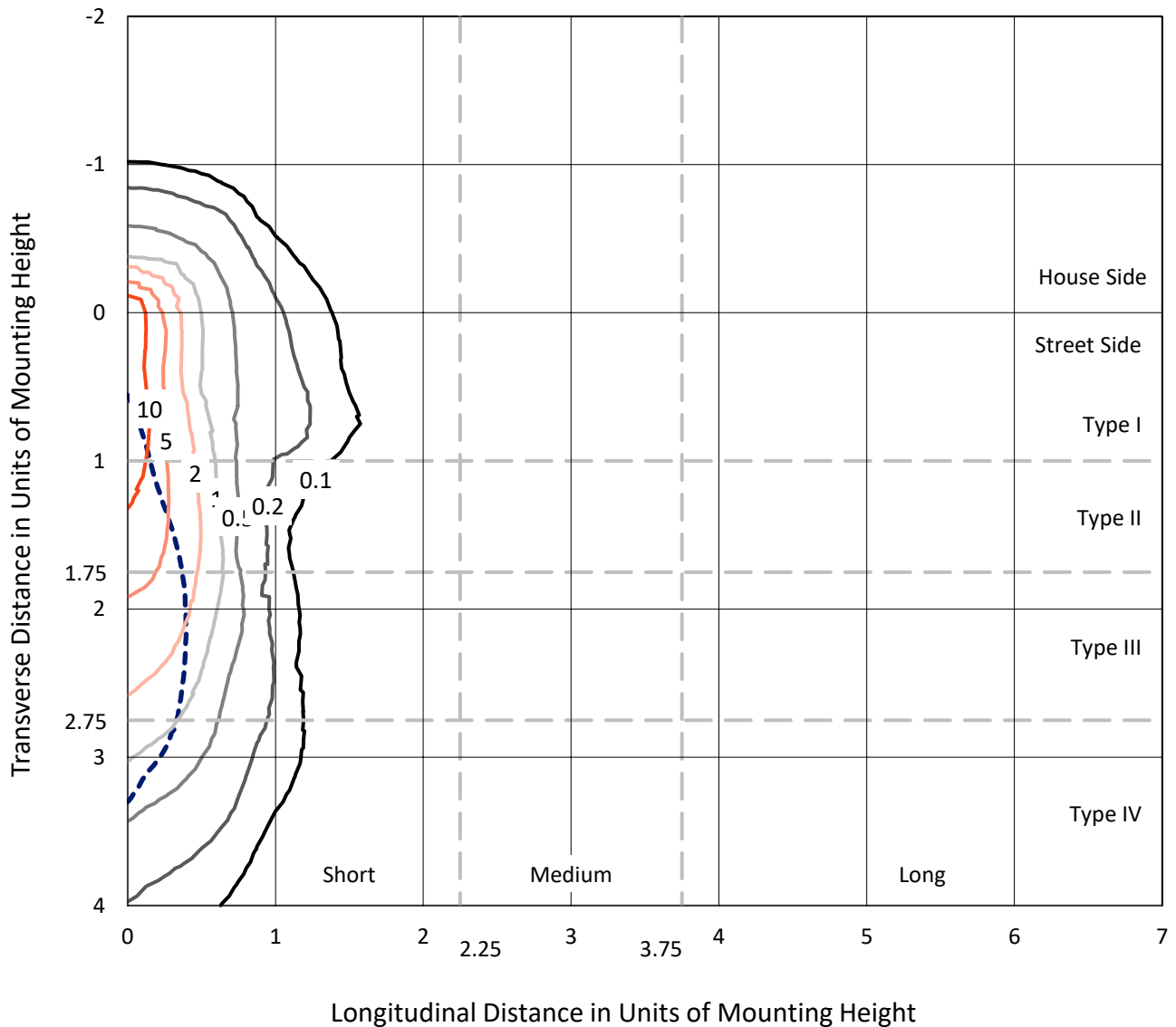
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

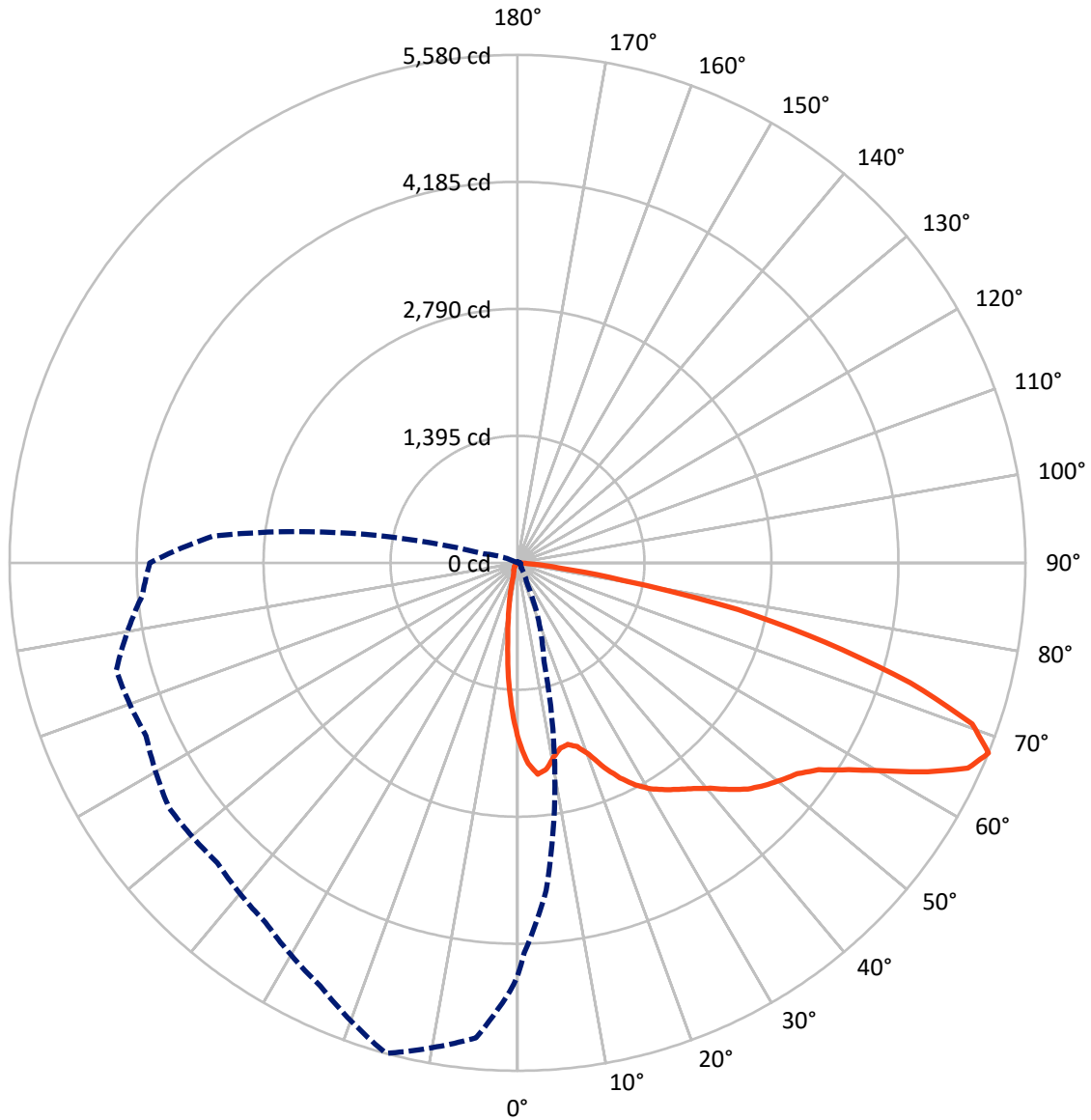
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.6 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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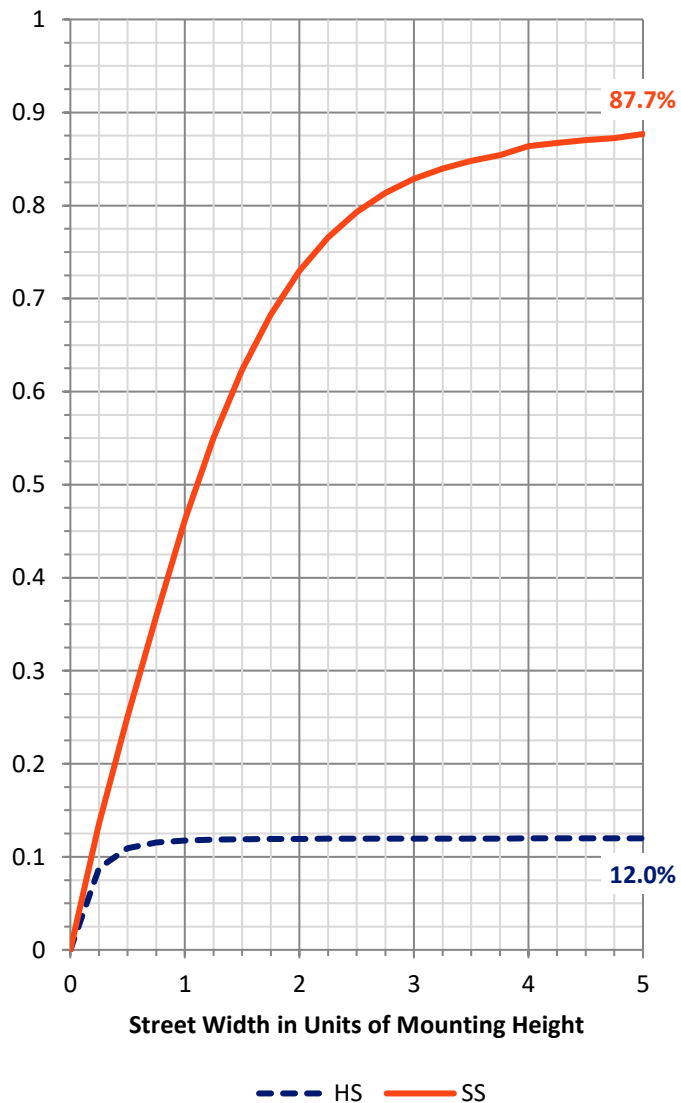
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	729.7	0.0	729.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	5299.3	0.0	5299.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	6029.0	0.0	6029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	2.5
10°-20°	300.0	5.0
20°-30°	426.0	7.1
30°-40°	629.3	10.4
40°-50°	907.6	15.1
50°-60°	1274.0	21.1
60°-70°	1485.1	24.6
70°-80°	759.2	12.6
80°-90°	97.0	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°	6029.0	100.0
0°-180°	6029.0	100.0

Coefficient of Utilization

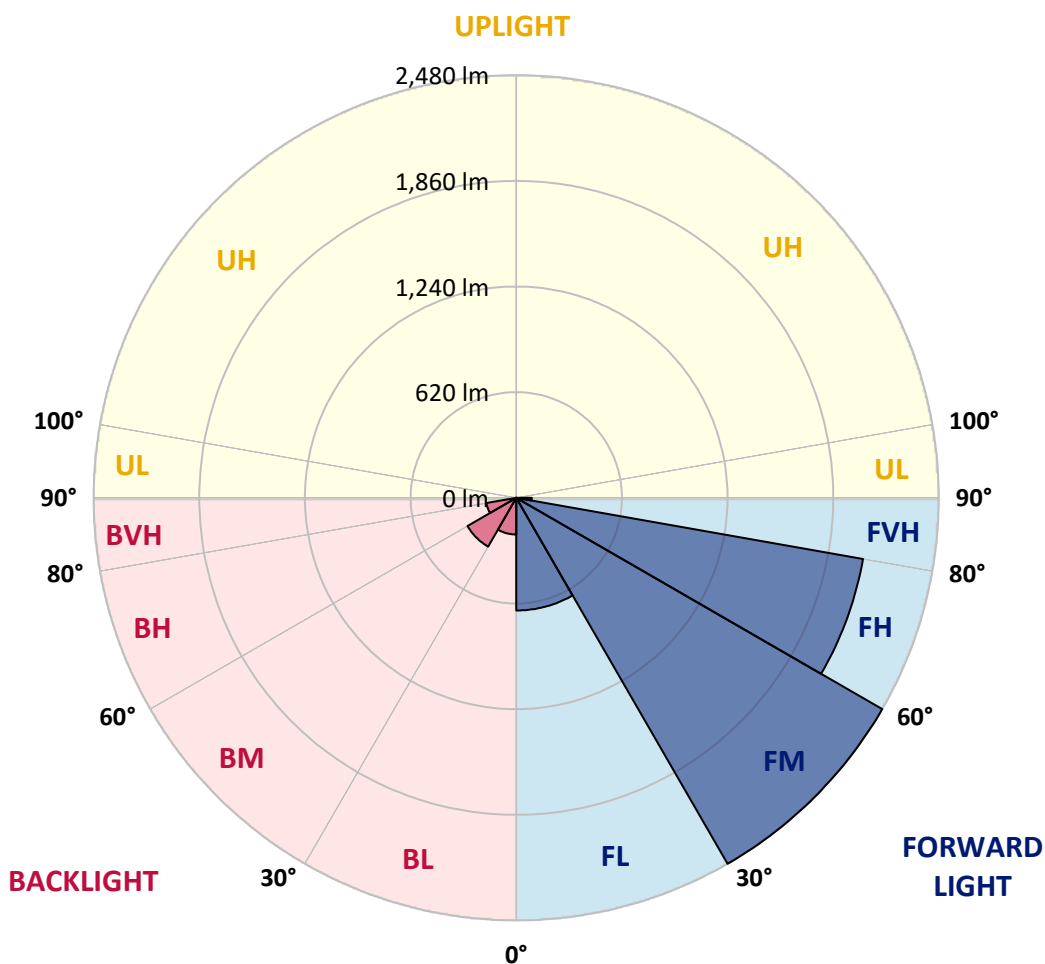


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.3	11.0			
FM (30°-60°)	2480.4	41.1			
FH (60°-80°)	2066.5	34.3			G2/5000
FVH (80°-90°)	91.1	1.5			G1/100
BL (0°-30°)	215.5	3.6	B1/500		
BM (30°-60°)	330.4	5.5	B1/1000		
BH (60°-80°)	177.8	2.9	B1/500		G1/500
BVH (80°-90°)	5.9	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9
2.5°	2150.4	2133.9	2115.6	2055.9	2000.5	1937.1	1885.4	1849.4	1804.3	1745.7	1730.9
5°	2135.0	2117.3	2059.9	1927.1	1810.8	1697.7	1588.6	1524.6	1445.2	1364.7	1344.7
7.5°	1979.9	1961.4	1878.5	1696.6	1540.1	1376.7	1235.0	1147.3	1057.7	984.0	944.8
10°	1818.6	1798.3	1705.2	1484.4	1291.6	1143.9	1039.9	956.3	871.4	792.6	729.8
12.5°	1707.4	1680.9	1579.8	1329.6	1161.6	1061.4	964.3	864.0	749.2	664.6	595.5
15°	1660.9	1630.6	1523.8	1269.9	1115.6	998.0	871.4	748.3	613.8	517.0	453.6
17.5°	1696.9	1657.5	1542.9	1265.9	1057.9	897.7	737.8	593.2	447.3	349.3	304.2
20°	1819.1	1767.4	1622.0	1264.7	988.0	778.6	575.8	412.4	294.8	237.1	213.4
22.5°	2011.6	1943.4	1735.7	1273.9	915.7	653.5	415.9	280.2	221.4	191.4	177.4
25°	2244.1	2165.0	1899.4	1306.1	852.3	531.8	302.2	221.4	186.8	164.8	153.1
27.5°	2465.2	2400.9	2106.2	1352.7	803.2	433.6	245.3	187.7	159.7	145.1	135.7
30°	2686.0	2605.2	2318.4	1408.1	744.0	367.0	215.6	171.1	143.1	127.7	121.7
32.5°	2846.5	2779.4	2484.6	1448.1	680.9	323.6	192.8	156.5	133.7	118.0	109.1
35°	3035.3	2959.3	2627.1	1457.0	640.4	296.2	173.4	140.8	116.0	102.0	92.5
37.5°	3239.2	3144.7	2791.7	1437.5	608.7	282.8	158.8	133.7	108.3	94.0	84.0
40°	3464.9	3358.1	2949.6	1409.5	577.5	278.2	147.7	128.2	102.3	87.7	77.4
42.5°	3702.5	3576.6	3086.4	1380.1	557.8	262.5	146.5	122.8	97.7	82.0	71.7
45°	3902.2	3774.5	3227.0	1370.4	543.8	245.3	151.4	119.1	94.5	77.4	67.4
47.5°	4061.3	3940.4	3370.9	1392.1	535.8	229.6	138.0	124.0	92.8	73.4	63.7
50°	4251.2	4114.4	3573.7	1457.0	524.1	213.9	124.8	142.0	92.8	70.8	60.6
52.5°	4489.4	4354.0	3799.9	1557.5	500.7	192.2	112.2	142.2	93.7	67.4	56.6
55°	4789.0	4690.8	4123.0	1667.7	463.3	160.2	97.1	122.2	90.3	61.1	52.8
57.5°	5076.4	4996.1	4417.4	1743.1	413.3	125.1	84.5	98.5	82.5	53.7	47.1
59°	5154.9	5067.2	4525.4	1746.6	375.9	109.1	78.3	81.4	80.8	50.3	43.7
60°	5154.9	5061.8	4556.5	1728.3	348.7	100.3	74.3	72.5	84.3	48.0	41.7
62.5°	5061.5	4930.7	4455.4	1604.6	284.5	85.4	64.8	60.0	75.7	43.1	36.8
65°	4867.3	4676.8	4111.0	1381.0	253.6	78.3	56.0	49.1	52.6	38.0	32.3
67.5°	4543.4	4285.2	3614.3	1115.6	241.4	76.3	48.3	41.7	39.7	32.6	28.3
70°	3973.0	3686.5	3011.3	877.1	230.8	75.4	40.6	35.1	32.0	27.4	24.0
72.5°	2891.6	2592.9	2137.9	685.8	224.5	77.1	32.6	29.4	26.3	21.4	18.6
75°	1654.0	1458.4	1201.6	453.0	191.4	73.7	25.1	24.6	18.9	15.4	12.9
77.5°	854.6	828.6	720.1	173.9	91.7	32.3	16.6	14.3	11.1	9.4	7.7
80°	368.7	364.7	315.6	50.3	24.3	18.0	9.4	6.0	5.1	4.0	3.1
82.5°	127.4	127.4	112.2	16.9	10.9	8.9	1.1	0.0	0.0	0.0	0.0
85°	25.7	28.8	20.3	0.0	3.7	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°	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9
2.5°	1712.9	1678.3	1676.0	1654.3	1627.2	1614.9	1607.8	1620.3	1635.8	1637.5	1660.6
5°	1329.6	1293.3	1308.4	1269.9	1277.6	1269.9	1257.3	1259.6	1266.4	1245.0	1271.6
7.5°	933.7	906.3	923.7	913.4	927.1	932.6	924.8	913.4	879.7	875.7	898.9
10°	703.8	672.6	654.1	634.7	638.9	647.8	644.9	636.7	615.2	616.4	638.7
12.5°	565.5	530.7	493.8	446.1	434.4	441.0	434.4	429.6	409.0	410.7	430.4
15°	429.0	400.4	361.9	323.6	302.8	304.8	286.5	273.6	260.8	245.3	257.3
17.5°	289.6	272.2	260.8	249.3	224.5	218.8	195.7	170.8	161.1	154.0	159.1
20°	205.1	195.7	191.1	190.5	176.2	169.1	146.5	131.1	126.2	124.8	128.0
22.5°	171.4	164.5	157.9	154.2	147.1	138.8	121.7	114.0	110.5	108.8	111.1
25°	149.1	144.0	137.1	130.8	128.0	119.1	106.8	101.1	98.8	97.1	98.3
27.5°	132.5	128.0	120.0	116.0	113.7	106.0	95.4	90.8	88.8	88.3	88.0
30°	119.4	115.1	107.7	103.1	99.1	92.3	86.0	81.4	79.4	78.8	78.3
32.5°	106.3	102.8	98.0	93.4	89.1	82.8	77.4	73.7	70.5	70.0	69.7
35°	89.7	86.3	83.7	83.4	79.4	73.4	69.4	64.6	62.0	61.1	61.4
37.5°	79.7	75.1	69.4	71.4	70.3	66.0	60.6	55.7	53.1	52.6	52.6
40°	73.4	68.5	62.0	58.6	62.0	61.1	52.6	47.7	45.1	44.8	44.3
42.5°	67.4	62.6	55.1	49.4	51.1	53.7	45.4	40.8	38.3	37.7	36.8
45°	63.1	58.0	49.7	43.1	39.7	45.1	38.8	33.1	31.7	30.6	30.0
47.5°	59.1	54.3	44.8	37.4	31.7	32.6	31.1	27.1	25.4	24.3	24.0
50°	55.7	50.6	40.6	32.0	26.3	24.0	25.1	21.4	20.0	18.9	18.3
52.5°	51.7	46.8	36.0	27.7	22.0	18.9	19.1	16.9	15.4	14.6	14.3
55°	48.6	43.7	32.3	24.3	19.4	15.4	13.7	13.1	12.3	11.7	11.4
57.5°	44.3	39.7	28.6	20.6	16.6	12.6	10.6	10.6	10.3	9.7	9.4
59°	41.7	37.7	26.3	18.6	15.1	10.9	9.4	9.7	9.4	8.9	8.6
60°	39.7	36.0	24.6	17.1	14.3	10.0	8.6	9.1	8.9	8.3	8.0
62.5°	35.1	32.6	21.1	14.3	12.6	8.0	7.1	7.7	7.7	7.4	7.1
65°	30.8	28.0	18.0	12.0	11.7	6.9	5.7	6.9	7.1	6.6	6.0
67.5°	26.8	24.0	15.7	9.7	10.9	5.4	4.3	5.7	7.7	6.0	5.4
70°	22.8	20.0	12.3	7.7	11.4	3.7	3.4	5.1	9.1	6.6	5.1
72.5°	17.7	15.4	8.6	5.7	12.3	2.6	2.6	4.3	10.3	7.1	4.9
75°	12.3	10.0	5.1	3.4	10.0	1.7	1.7	4.0	9.7	6.6	4.6
77.5°	7.1	5.4	1.7	0.3	5.1	0.0	0.3	2.9	6.9	4.0	2.0
80°	2.6	1.1	0.0	0.0	3.1	0.0	0.0	0.0	0.6	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°	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9
2.5°	1666.6	1705.2	1739.7	1792.0	1854.0	1925.4	1986.8	2052.8	2114.7	2140.4	2158.2
5°	1277.0	1324.7	1380.4	1457.2	1559.5	1685.5	1803.4	1936.8	2080.2	2151.9	2219.3
7.5°	902.9	951.4	1020.5	1102.2	1225.9	1375.8	1530.1	1714.3	1908.5	2021.9	2133.6
10°	649.2	708.9	773.5	885.1	1010.8	1153.1	1311.9	1517.5	1734.0	1859.7	1994.2
12.5°	441.9	509.8	607.5	732.6	880.3	1019.7	1157.6	1353.8	1605.2	1729.7	1874.0
15°	265.1	302.8	406.2	551.0	732.0	905.7	1056.8	1253.6	1521.5	1674.0	1824.0
17.5°	163.4	180.8	237.1	355.9	546.1	765.8	972.8	1219.6	1533.5	1719.2	1879.7
20°	130.2	137.1	155.1	210.2	361.9	611.5	878.3	1212.8	1631.5	1860.0	2032.2
22.5°	113.1	119.7	131.7	152.8	227.6	457.9	788.6	1219.0	1772.0	2071.0	2272.1
25°	99.7	105.4	116.8	134.2	166.8	322.5	692.6	1247.0	1955.1	2333.0	2546.6
27.5°	89.1	94.0	104.5	120.5	143.1	225.1	583.8	1281.0	2172.2	2600.9	2811.7
30°	79.4	83.7	93.1	108.0	124.2	173.1	464.4	1304.1	2389.5	2811.7	3001.0
32.5°	71.1	74.3	82.8	95.4	108.0	138.0	353.0	1300.4	2550.9	2987.0	3137.3
35°	62.6	65.7	73.1	84.0	94.0	114.0	277.6	1231.0	2691.4	3169.0	3293.2
37.5°	53.1	57.1	64.3	74.0	80.8	100.3	224.5	1147.3	2833.9	3376.9	3467.2
40°	45.1	49.1	55.4	66.0	70.3	95.1	172.5	1045.4	2994.2	3609.4	3658.0
42.5°	37.4	41.1	47.7	56.8	66.3	82.0	127.7	928.8	3148.1	3808.2	3831.9
45°	30.3	34.0	40.8	50.0	70.8	68.0	98.8	804.0	3272.4	3973.6	3981.3
47.5°	24.0	27.4	34.6	47.1	66.0	54.3	70.5	706.1	3376.6	4102.7	4082.4
50°	18.6	21.4	28.8	54.0	57.7	44.8	53.4	673.5	3470.0	4182.6	4130.1
52.5°	14.6	17.1	23.7	50.6	44.8	37.1	44.8	704.1	3598.0	4248.9	4156.9
55°	11.7	14.3	18.6	28.8	30.6	31.4	38.3	732.6	3818.8	4404.3	4315.5
57.5°	9.7	12.3	15.1	20.3	23.1	26.6	34.0	735.8	4079.0	4662.5	4578.5
59°	8.9	11.1	13.7	18.0	20.3	24.3	32.0	718.6	4170.6	4756.5	4714.5
60°	8.3	10.6	12.9	16.6	18.9	22.8	30.8	702.3	4174.6	4753.0	4772.5
62.5°	7.1	9.4	11.4	14.0	16.0	19.4	27.7	642.1	4005.6	4597.4	4737.6
65°	6.3	8.3	10.3	12.0	13.7	17.4	25.1	532.1	3716.8	4346.3	4499.1
67.5°	5.7	7.1	9.4	10.6	12.3	15.4	22.3	379.3	3356.1	4039.3	4138.4
70°	5.1	6.9	8.6	9.7	11.1	13.4	19.1	217.9	2833.9	3589.7	3660.2
72.5°	4.9	6.6	7.7	9.1	10.0	12.0	17.4	102.5	2075.0	2875.6	3059.9
75°	4.3	6.0	7.1	8.6	9.4	10.9	14.9	49.1	1380.1	2081.0	2290.4
77.5°	2.6	4.9	6.6	7.7	8.3	9.4	12.3	28.3	880.9	1440.4	1696.6
80°	0.0	1.7	4.9	6.6	7.1	8.0	9.4	22.3	471.3	822.9	987.7
82.5°	0.0	0.0	3.4	5.1	4.9	5.4	7.1	14.0	212.5	537.8	606.1
85°	0.0	0.0	1.1	4.0	3.4	2.6	4.9	4.9	46.6	272.2	339.6
87.5°	0.0	0.0	0.0	0.3	1.7	1.1	2.0	0.6	0.3	20.3	82.3
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°	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9	1963.9
2.5°	2220.1	2241.3	2277.0	2293.8	2285.5	2250.4	2208.4	2165.6	2140.4	2150.4
5°	2356.7	2465.5	2528.3	2549.2	2514.3	2435.5	2332.4	2196.4	2148.2	2135.0
7.5°	2356.7	2561.5	2691.1	2714.0	2636.3	2481.8	2288.4	2076.2	2005.6	1979.9
10°	2273.8	2552.6	2733.4	2769.7	2661.1	2430.1	2171.0	1928.8	1845.1	1818.6
12.5°	2180.4	2480.6	2671.1	2721.1	2632.0	2378.7	2089.6	1829.1	1730.6	1707.4
15°	2123.0	2392.1	2549.7	2586.0	2548.3	2348.7	2070.2	1799.1	1683.2	1660.9
17.5°	2143.6	2323.5	2380.4	2401.5	2426.9	2338.1	2123.0	1864.8	1718.0	1696.9
20°	2221.0	2251.3	2221.9	2248.4	2317.0	2348.4	2249.0	2023.6	1847.4	1819.1
22.5°	2352.4	2213.9	2131.3	2141.9	2225.3	2382.4	2441.5	2250.4	2047.1	2011.6
25°	2505.5	2244.1	2081.0	2071.6	2157.3	2427.2	2617.4	2497.2	2283.3	2244.1
27.5°	2698.0	2312.1	2070.8	2061.3	2133.6	2469.2	2763.7	2741.1	2532.0	2465.2
30°	2846.5	2378.9	2101.3	2079.6	2157.3	2498.3	2881.1	2948.2	2730.3	2686.0
32.5°	2953.0	2457.8	2151.0	2119.6	2224.1	2548.6	2971.6	3137.8	2913.6	2846.5
35°	3034.2	2543.5	2231.3	2179.6	2316.1	2624.9	3056.4	3339.8	3108.7	3035.3
37.5°	3110.1	2663.7	2356.7	2295.0	2460.3	2747.7	3146.1	3568.8	3326.9	3239.2
40°	3216.1	2800.0	2550.0	2495.2	2702.8	2915.1	3258.1	3807.6	3575.1	3464.9
42.5°	3322.1	2946.2	2748.0	2762.8	3005.3	3118.4	3402.6	4060.1	3820.2	3702.5
45°	3418.9	3097.0	3029.9	3098.4	3286.1	3341.5	3546.3	4206.1	4015.8	3902.2
47.5°	3505.2	3285.5	3310.1	3492.6	3605.4	3543.4	3653.7	4332.0	4161.5	4061.3
50°	3605.4	3529.4	3679.4	3937.6	3973.0	3726.2	3751.4	4481.1	4331.7	4251.2
52.5°	3715.1	3786.5	4088.4	4316.0	4304.6	3924.7	3849.6	4648.2	4565.1	4489.4
55°	3839.6	3994.1	4448.6	4670.2	4660.5	4146.4	4012.4	4854.7	4857.6	4789.0
57.5°	4024.4	4172.9	4693.1	4956.7	4973.0	4402.3	4288.3	5086.1	5122.1	5076.4
59°	4156.9	4288.9	4789.9	5076.4	5142.6	4600.2	4490.0	5220.3	5196.6	5154.9
60°	4255.2	4362.6	4837.9	5138.9	5241.2	4734.5	4638.8	5299.1	5205.5	5154.9
62.5°	4498.3	4523.1	4924.4	5209.7	5354.6	5032.7	5057.5	5433.4	5144.0	5061.5
65°	4611.6	4624.5	4923.3	5082.9	5244.9	5264.9	5437.4	5437.4	4994.1	4867.3
67.5°	4564.2	4502.3	4679.1	4662.5	4824.2	5126.9	5580.2	5238.0	4707.3	4543.4
70°	4178.6	3940.2	3861.6	3868.7	3992.4	4459.4	5297.4	4651.4	4164.7	3973.0
72.5°	3476.9	2904.8	2710.8	2932.2	2964.5	3427.2	4514.5	3502.9	3071.3	2891.6
75°	2796.5	2047.6	1732.3	1965.9	2020.8	2508.0	3492.3	2181.6	1794.0	1654.0
77.5°	2009.1	1469.8	1243.0	1226.7	1297.6	1590.6	2478.1	1097.9	915.7	854.6
80°	1141.3	967.4	1041.7	982.8	1018.5	994.5	1177.3	481.6	394.4	368.7
82.5°	688.9	571.8	619.2	515.5	652.4	568.1	453.6	154.2	134.0	127.4
85°	448.1	312.5	162.8	109.1	224.8	363.0	101.4	42.0	32.3	25.7
87.5°	154.5	79.7	8.0	3.4	24.0	67.7	3.7	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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