

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: P386700

Luminaire Tested: GAW-SA2B-827-U-SLR-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386700
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-SA2B-827-U-SLR-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 800mA 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: 6500 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

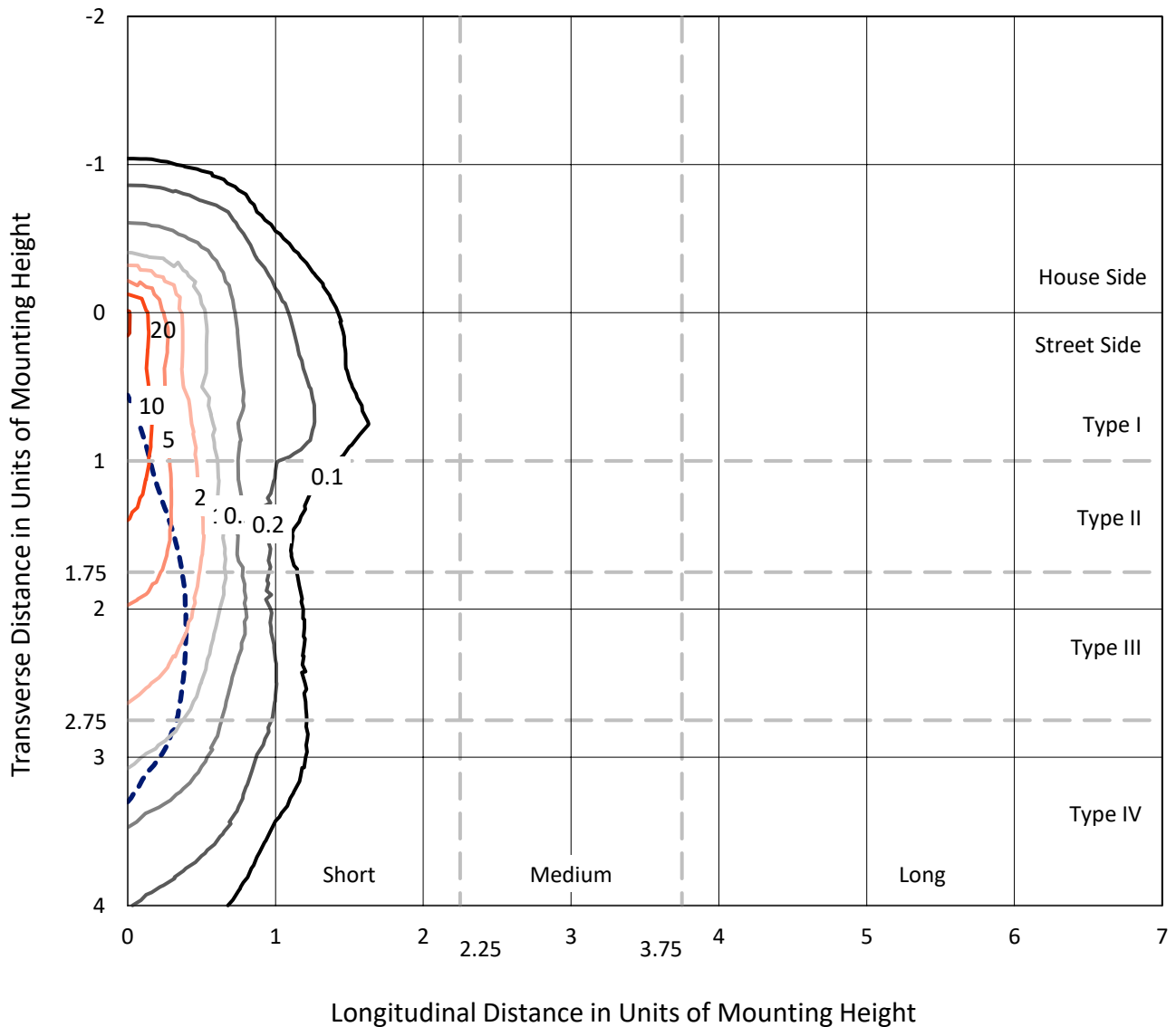
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

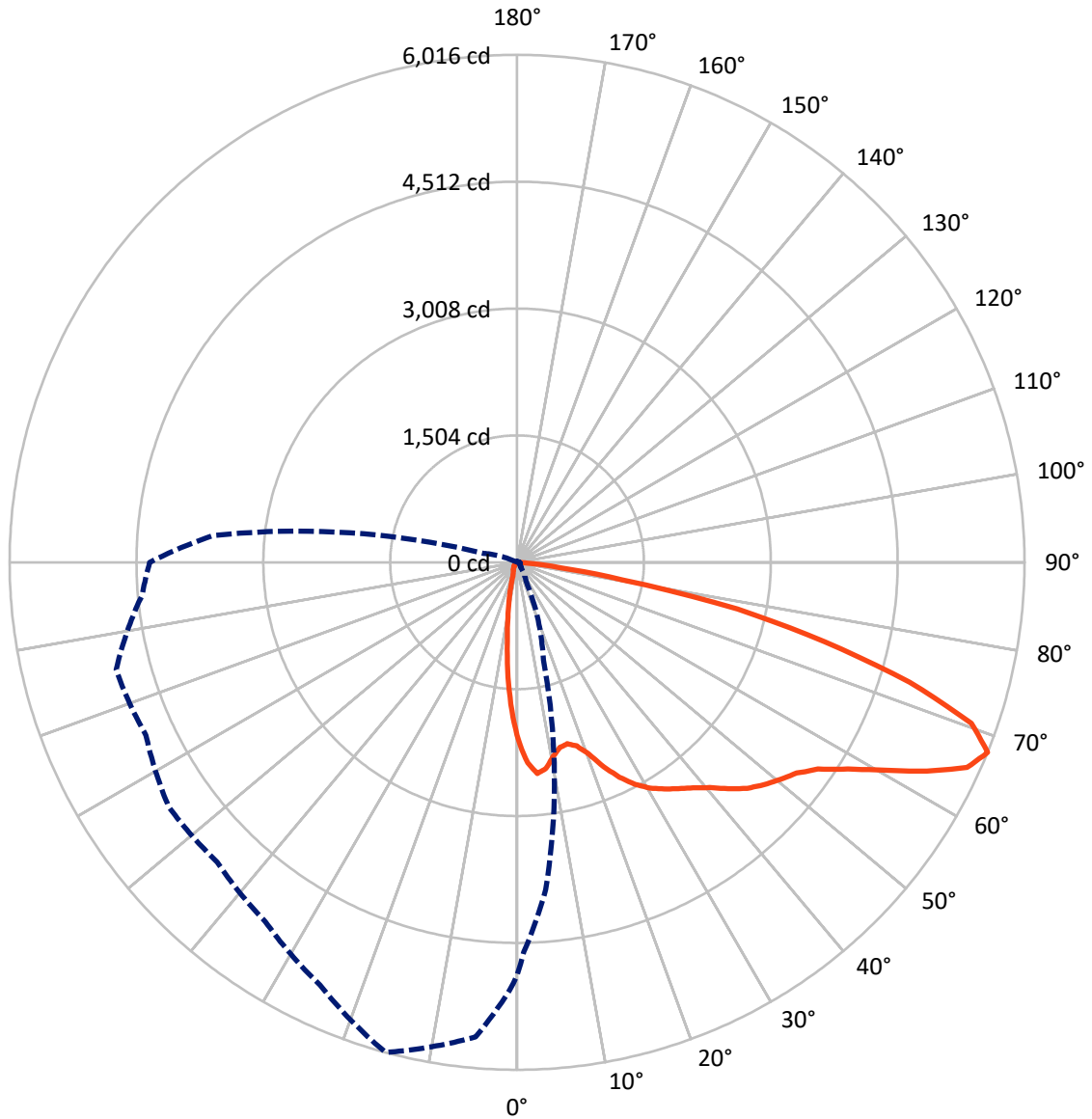
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.2 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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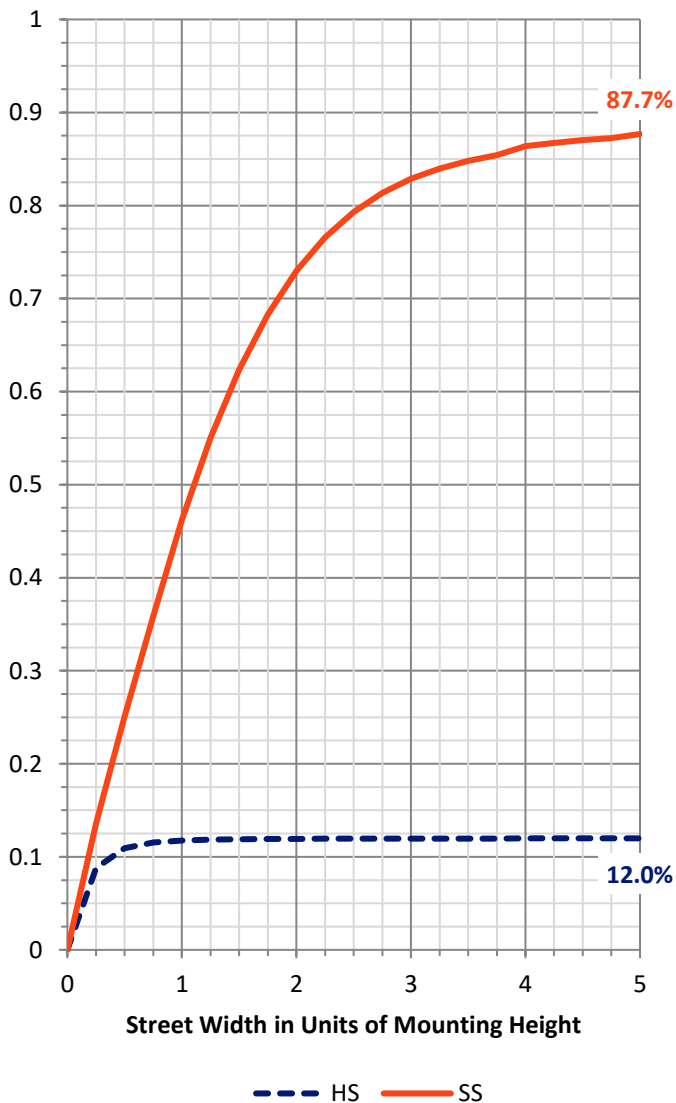
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	786.7	0.0	786.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	5713.3	0.0	5713.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	6500.0	0.0	6500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	2.5
10°-20°	323.5	5.0
20°-30°	459.3	7.1
30°-40°	678.4	10.4
40°-50°	978.5	15.1
50°-60°	1373.6	21.1
60°-70°	1601.2	24.6
70°-80°	818.5	12.6
80°-90°	104.5	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°	6500.0	100.0
0°-180°	6500.0	100.0

Coefficient of Utilization

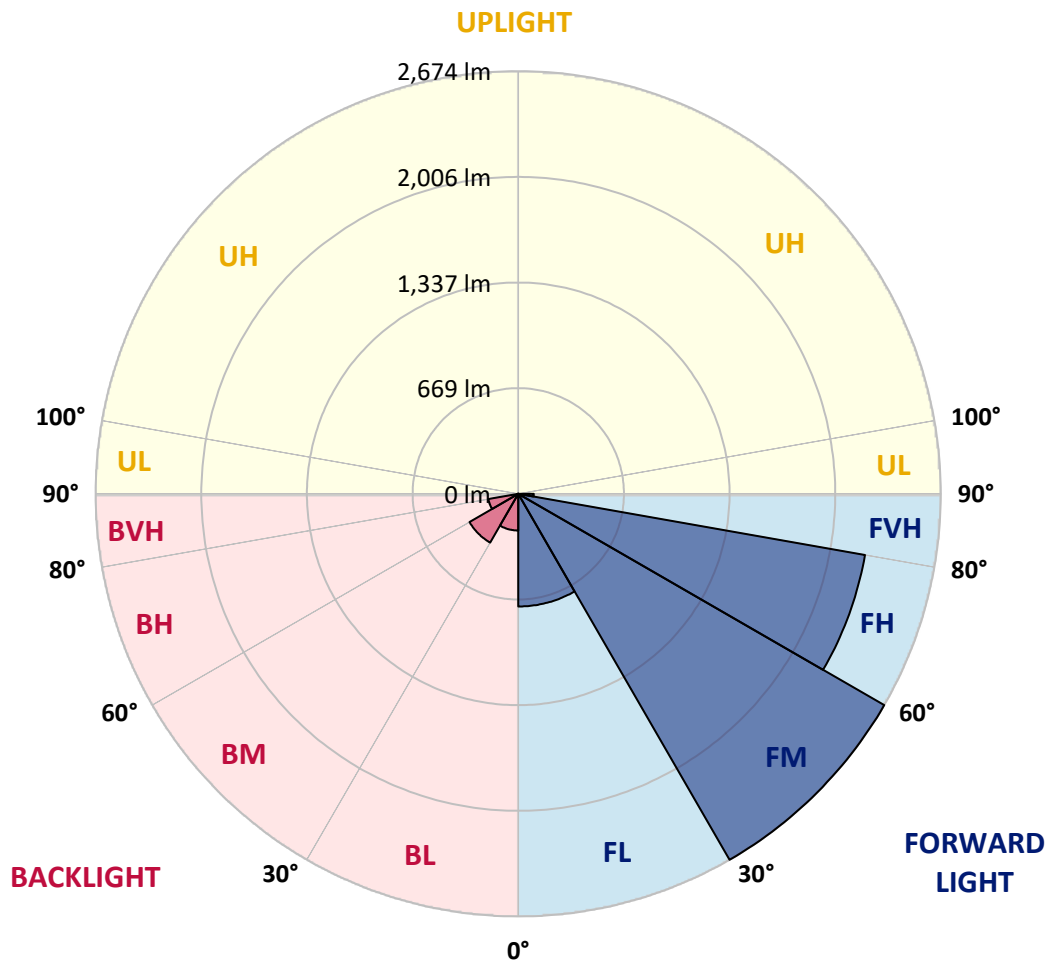


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	712.9	11.0			
FM (30°-60°)	2674.2	41.1			
FH (60°-80°)	2228.0	34.3			G2/5000
FVH (80°-90°)	98.2	1.5			G1/100
BL (0°-30°)	232.4	3.6	B1/500		
BM (30°-60°)	356.2	5.5	B1/1000		
BH (60°-80°)	191.7	2.9	B1/500		G1/500
BVH (80°-90°)	6.4	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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4
2.5°	2318.4	2300.6	2280.9	2216.5	2156.8	2088.4	2032.7	1993.9	1945.2	1882.1	1866.1
5°	2301.8	2282.7	2220.8	2077.6	1952.3	1830.4	1712.7	1643.8	1558.2	1471.3	1449.8
7.5°	2134.6	2114.6	2025.3	1829.1	1660.4	1484.2	1331.5	1237.0	1140.3	1060.8	1018.6
10°	1960.6	1938.8	1838.4	1600.3	1392.5	1233.3	1121.2	1031.0	939.5	854.5	786.8
12.5°	1840.8	1812.2	1703.2	1433.4	1252.4	1144.3	1039.6	931.5	807.7	716.6	642.0
15°	1790.6	1758.0	1642.8	1369.1	1202.8	1075.9	939.5	806.8	661.8	557.4	489.0
17.5°	1829.4	1786.9	1663.5	1364.8	1140.6	967.8	795.4	639.6	482.2	376.6	328.0
20°	1961.2	1905.5	1748.8	1363.5	1065.1	839.4	620.8	444.7	317.8	255.6	230.0
22.5°	2168.8	2095.2	1871.3	1373.4	987.2	704.6	448.4	302.1	238.6	206.3	191.2
25°	2419.4	2334.1	2047.8	1408.2	918.9	573.4	325.8	238.6	201.4	177.7	165.1
27.5°	2657.8	2588.5	2270.7	1458.4	865.9	467.4	264.5	202.3	172.1	156.4	146.3
30°	2895.8	2808.7	2499.5	1518.1	802.2	395.7	232.5	184.5	154.3	137.6	131.2
32.5°	3068.9	2996.5	2678.7	1561.2	734.1	348.9	207.9	168.7	144.1	127.2	117.6
35°	3272.4	3190.5	2832.4	1570.8	690.4	319.3	186.9	151.8	125.0	109.9	99.8
37.5°	3492.3	3390.4	3009.8	1549.8	656.2	304.9	171.2	144.1	116.7	101.3	90.5
40°	3735.6	3620.4	3180.0	1519.7	622.6	299.9	159.2	138.3	110.2	94.5	83.5
42.5°	3991.8	3856.0	3327.5	1487.9	601.4	283.0	158.0	132.4	105.3	88.4	77.3
45°	4207.0	4069.4	3479.1	1477.5	586.3	264.5	163.2	128.4	101.9	83.5	72.7
47.5°	4378.5	4248.3	3634.3	1500.9	577.7	247.6	148.7	133.6	100.1	79.1	68.7
50°	4583.3	4435.8	3852.9	1570.8	565.1	230.6	134.6	153.0	100.1	76.4	65.3
52.5°	4840.1	4694.2	4096.8	1679.2	539.8	207.2	121.0	153.4	101.0	72.7	61.0
55°	5163.2	5057.2	4445.0	1798.0	499.5	172.8	104.7	131.8	97.3	65.9	57.0
57.5°	5472.9	5386.4	4762.5	1879.3	445.6	134.9	91.1	106.2	89.0	57.9	50.8
59°	5557.6	5463.1	4878.9	1883.0	405.2	117.6	84.4	87.8	87.1	54.2	47.1
60°	5557.6	5457.2	4912.5	1863.3	376.0	108.1	80.1	78.2	90.8	51.7	45.0
62.5°	5456.9	5315.9	4803.5	1730.0	306.7	92.1	69.9	64.7	81.6	46.5	39.7
65°	5247.5	5042.1	4432.1	1488.9	273.4	84.4	60.4	53.0	56.7	41.0	34.8
67.5°	4898.3	4620.0	3896.6	1202.8	260.2	82.2	52.0	45.0	42.8	35.1	30.5
70°	4283.4	3974.5	3246.6	945.7	248.8	81.3	43.7	37.9	34.5	29.6	25.9
72.5°	3117.5	2795.4	2304.9	739.4	242.0	83.1	35.1	31.7	28.3	23.1	20.0
75°	1783.3	1572.3	1295.5	488.4	206.3	79.4	27.1	26.5	20.3	16.6	13.9
77.5°	921.3	893.3	776.3	187.5	98.8	34.8	17.9	15.4	12.0	10.2	8.3
80°	397.5	393.2	340.3	54.2	26.2	19.4	10.2	6.5	5.5	4.3	3.4
82.5°	137.3	137.3	121.0	18.2	11.7	9.5	1.2	0.0	0.0	0.0	0.0
85°	27.7	31.1	21.9	0.0	4.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4
2.5°	1846.7	1809.4	1807.0	1783.6	1754.3	1741.1	1733.4	1746.9	1763.5	1765.4	1790.3
5°	1433.4	1394.3	1410.7	1369.1	1377.4	1369.1	1355.5	1358.0	1365.4	1342.3	1370.9
7.5°	1006.6	977.1	995.9	984.8	999.6	1005.4	997.1	984.8	948.4	944.1	969.1
10°	758.8	725.2	705.2	684.2	688.9	698.4	695.3	686.4	663.3	664.5	688.5
12.5°	609.7	572.1	532.4	481.0	468.4	475.5	468.4	463.1	441.0	442.8	464.1
15°	462.5	431.7	390.2	348.9	326.4	328.6	308.9	295.0	281.1	264.5	277.4
17.5°	312.2	293.5	281.1	268.8	242.0	235.9	210.9	184.1	173.7	166.0	171.5
20°	221.1	210.9	206.0	205.4	190.0	182.3	158.0	141.3	136.1	134.6	138.0
22.5°	184.8	177.4	170.3	166.3	158.6	149.7	131.2	122.9	119.2	117.3	119.8
25°	160.7	155.2	147.8	141.0	138.0	128.4	115.2	109.0	106.5	104.7	105.9
27.5°	142.9	138.0	129.3	125.0	122.6	114.2	102.9	97.9	95.8	95.2	94.8
30°	128.7	124.1	116.1	111.2	106.9	99.5	92.7	87.8	85.6	85.0	84.4
32.5°	114.6	110.9	105.6	100.7	96.1	89.3	83.5	79.4	76.1	75.4	75.1
35°	96.7	93.0	90.2	89.9	85.6	79.1	74.8	69.6	66.8	65.9	66.2
37.5°	85.9	81.0	74.8	77.0	75.8	71.1	65.3	60.0	57.3	56.7	56.7
40°	79.1	73.9	66.8	63.1	66.8	65.9	56.7	51.4	48.7	48.3	47.7
42.5°	72.7	67.4	59.4	53.3	55.1	57.9	49.0	44.0	41.3	40.6	39.7
45°	68.1	62.5	53.6	46.5	42.8	48.7	41.9	35.7	34.2	32.9	32.3
47.5°	63.7	58.5	48.3	40.3	34.2	35.1	33.6	29.3	27.4	26.2	25.9
50°	60.0	54.5	43.7	34.5	28.3	25.9	27.1	23.1	21.6	20.3	19.7
52.5°	55.7	50.5	38.8	29.9	23.7	20.3	20.6	18.2	16.6	15.7	15.4
55°	52.3	47.1	34.8	26.2	20.9	16.6	14.8	14.2	13.2	12.6	12.3
57.5°	47.7	42.8	30.8	22.2	17.9	13.5	11.4	11.4	11.1	10.5	10.2
59°	45.0	40.6	28.3	20.0	16.3	11.7	10.2	10.5	10.2	9.5	9.2
60°	42.8	38.8	26.5	18.5	15.4	10.8	9.2	9.9	9.5	8.9	8.6
62.5°	37.9	35.1	22.8	15.4	13.5	8.6	7.7	8.3	8.3	8.0	7.7
65°	33.3	30.2	19.4	12.9	12.6	7.4	6.2	7.4	7.7	7.1	6.5
67.5°	28.9	25.9	16.9	10.5	11.7	5.9	4.6	6.2	8.3	6.5	5.9
70°	24.6	21.6	13.2	8.3	12.3	4.0	3.7	5.5	9.9	7.1	5.5
72.5°	19.1	16.6	9.2	6.2	13.2	2.8	2.8	4.6	11.1	7.7	5.2
75°	13.2	10.8	5.5	3.7	10.8	1.8	1.8	4.3	10.5	7.1	4.9
77.5°	7.7	5.9	1.8	0.3	5.5	0.0	0.3	3.1	7.4	4.3	2.2
80°	2.8	1.2	0.0	0.0	3.4	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°	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4
2.5°	1796.8	1838.4	1875.6	1932.0	1998.8	2075.8	2142.0	2213.1	2280.0	2307.7	2326.8
5°	1376.8	1428.2	1488.3	1571.1	1681.3	1817.1	1944.3	2088.1	2242.7	2320.0	2392.7
7.5°	973.4	1025.7	1100.3	1188.3	1321.7	1483.3	1649.6	1848.2	2057.6	2179.9	2300.3
10°	699.9	764.3	833.9	954.3	1089.8	1243.1	1414.3	1636.1	1869.5	2005.0	2150.0
12.5°	476.4	549.7	655.0	789.9	949.1	1099.3	1248.1	1459.6	1730.6	1864.9	2020.4
15°	285.8	326.4	437.9	594.0	789.2	976.5	1139.4	1351.5	1640.4	1804.8	1966.5
17.5°	176.1	194.9	255.6	383.7	588.8	825.6	1048.8	1314.9	1653.3	1853.5	2026.5
20°	140.4	147.8	167.2	226.6	390.2	659.3	946.9	1307.5	1758.9	2005.3	2191.0
22.5°	121.9	129.0	142.0	164.7	245.4	493.6	850.2	1314.3	1910.4	2232.8	2449.6
25°	107.5	113.6	125.9	144.7	179.8	347.7	746.7	1344.4	2107.8	2515.2	2745.6
27.5°	96.1	101.3	112.7	129.9	154.3	242.7	629.4	1381.1	2341.8	2804.1	3031.3
30°	85.6	90.2	100.4	116.4	134.0	186.6	500.7	1406.0	2576.2	3031.3	3235.5
32.5°	76.7	80.1	89.3	102.9	116.4	148.7	380.6	1402.0	2750.2	3220.4	3382.4
35°	67.4	70.8	78.8	90.5	101.3	122.9	299.3	1327.2	2901.7	3416.5	3550.5
37.5°	57.3	61.6	69.3	79.8	87.1	108.1	242.0	1237.0	3055.3	3640.7	3738.0
40°	48.7	53.0	59.7	71.1	75.8	102.5	186.0	1127.0	3228.1	3891.4	3943.7
42.5°	40.3	44.3	51.4	61.3	71.4	88.4	137.6	1001.4	3394.1	4105.7	4131.3
45°	32.6	36.6	44.0	53.9	76.4	73.3	106.5	866.8	3528.0	4284.0	4292.3
47.5°	25.9	29.6	37.3	50.8	71.1	58.5	76.1	761.2	3640.4	4423.2	4401.3
50°	20.0	23.1	31.1	58.2	62.2	48.3	57.6	726.1	3741.1	4509.4	4452.7
52.5°	15.7	18.5	25.6	54.5	48.3	40.0	48.3	759.1	3879.1	4580.8	4481.7
55°	12.6	15.4	20.0	31.1	32.9	33.9	41.3	789.9	4117.1	4748.4	4652.6
57.5°	10.5	13.2	16.3	21.9	24.9	28.6	36.6	793.2	4397.6	5026.7	4936.2
59°	9.5	12.0	14.8	19.4	21.9	26.2	34.5	774.8	4496.5	5128.0	5082.8
60°	8.9	11.4	13.9	17.9	20.3	24.6	33.3	757.2	4500.8	5124.4	5145.3
62.5°	7.7	10.2	12.3	15.1	17.2	20.9	29.9	692.2	4318.5	4956.5	5107.7
65°	6.8	8.9	11.1	12.9	14.8	18.8	27.1	573.7	4007.2	4685.9	4850.6
67.5°	6.2	7.7	10.2	11.4	13.2	16.6	24.0	408.9	3618.2	4354.8	4461.7
70°	5.5	7.4	9.2	10.5	12.0	14.5	20.6	235.0	3055.3	3870.1	3946.2
72.5°	5.2	7.1	8.3	9.9	10.8	12.9	18.8	110.5	2237.1	3100.3	3298.9
75°	4.6	6.5	7.7	9.2	10.2	11.7	16.0	53.0	1487.9	2243.6	2469.3
77.5°	2.8	5.2	7.1	8.3	8.9	10.2	13.2	30.5	949.7	1552.9	1829.1
80°	0.0	1.8	5.2	7.1	7.7	8.6	10.2	24.0	508.1	887.2	1064.8
82.5°	0.0	0.0	3.7	5.5	5.2	5.9	7.7	15.1	229.1	579.8	653.4
85°	0.0	0.0	1.2	4.3	3.7	2.8	5.2	5.2	50.2	293.5	366.1
87.5°	0.0	0.0	0.0	0.3	1.8	1.2	2.2	0.6	0.3	21.9	88.7
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°	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4	2117.4
2.5°	2393.6	2416.4	2454.9	2473.0	2464.1	2426.2	2381.0	2334.8	2307.7	2318.4
5°	2540.8	2658.1	2725.8	2748.3	2710.8	2625.8	2514.6	2368.0	2316.0	2301.8
7.5°	2540.8	2761.6	2901.4	2926.0	2842.2	2675.6	2467.2	2238.4	2162.3	2134.6
10°	2451.5	2752.0	2946.9	2986.0	2869.0	2619.9	2340.6	2079.5	1989.3	1960.6
12.5°	2350.8	2674.4	2879.8	2933.7	2837.6	2564.5	2252.9	1972.0	1865.8	1840.8
15°	2288.9	2579.0	2748.9	2788.0	2747.4	2532.2	2231.9	1939.7	1814.7	1790.6
17.5°	2311.1	2505.1	2566.3	2589.1	2616.5	2520.8	2288.9	2010.5	1852.2	1829.4
20°	2394.5	2427.1	2395.4	2424.1	2498.0	2531.8	2424.7	2181.7	1991.7	1961.2
22.5°	2536.2	2386.8	2297.8	2309.2	2399.1	2568.5	2632.2	2426.2	2207.0	2168.8
25°	2701.2	2419.4	2243.6	2233.5	2325.8	2616.8	2821.9	2692.3	2461.6	2419.4
27.5°	2908.8	2492.7	2232.5	2222.4	2300.3	2662.1	2979.6	2955.3	2729.8	2657.8
30°	3068.9	2564.8	2265.5	2242.1	2325.8	2693.5	3106.1	3178.5	2943.6	2895.8
32.5°	3183.7	2649.8	2319.1	2285.2	2397.9	2747.7	3203.8	3383.0	3141.2	3068.9
35°	3271.2	2742.2	2405.6	2349.9	2497.0	2829.9	3295.2	3600.7	3351.6	3272.4
37.5°	3353.1	2871.8	2540.8	2474.3	2652.6	2962.3	3391.9	3847.7	3586.8	3492.3
40°	3467.4	3018.7	2749.2	2690.1	2914.0	3142.8	3512.6	4105.1	3854.4	3735.6
42.5°	3581.6	3176.4	2962.6	2978.7	3240.1	3362.0	3668.4	4377.3	4118.6	3991.8
45°	3686.0	3338.9	3266.6	3340.5	3542.8	3602.5	3823.3	4534.7	4329.6	4207.0
47.5°	3779.0	3542.2	3568.7	3765.4	3887.1	3820.2	3939.1	4670.5	4486.6	4378.5
50°	3887.1	3805.2	3966.8	4245.2	4283.4	4017.3	4044.4	4831.2	4670.1	4583.3
52.5°	4005.3	4082.3	4407.8	4653.2	4640.9	4231.3	4150.4	5011.3	4921.7	4840.1
55°	4139.6	4306.2	4796.1	5035.0	5024.6	4470.3	4325.9	5234.0	5237.1	5163.2
57.5°	4338.8	4498.9	5059.7	5343.9	5361.5	4746.2	4623.3	5483.4	5522.2	5472.9
59°	4481.7	4624.0	5164.1	5472.9	5544.4	4959.6	4840.7	5628.1	5602.6	5557.6
60°	4587.6	4703.4	5215.8	5540.4	5650.6	5104.3	5001.2	5713.1	5612.1	5557.6
62.5°	4849.7	4876.5	5309.1	5616.7	5772.9	5425.8	5452.6	5857.9	5545.9	5456.9
65°	4971.9	4985.8	5307.9	5480.0	5654.6	5676.2	5862.2	5862.2	5384.2	5247.5
67.5°	4920.8	4854.0	5044.6	5026.7	5201.0	5527.4	6016.1	5647.2	5075.1	4898.3
70°	4505.1	4248.0	4163.3	4171.0	4304.3	4807.8	5711.3	5014.7	4490.0	4283.4
72.5°	3748.5	3131.7	2922.6	3161.3	3196.1	3694.9	4867.2	3776.5	3311.2	3117.5
75°	3015.0	2207.6	1867.6	2119.5	2178.6	2704.0	3765.1	2352.0	1934.1	1783.3
77.5°	2166.0	1584.6	1340.1	1322.6	1398.9	1714.9	2671.6	1183.7	987.2	921.3
80°	1230.5	1043.0	1123.0	1059.6	1098.1	1072.2	1269.3	519.2	425.3	397.5
82.5°	742.7	616.5	667.6	555.8	703.3	612.5	489.0	166.3	144.4	137.3
85°	483.2	336.9	175.5	117.6	242.3	391.4	109.3	45.3	34.8	27.7
87.5°	166.6	85.9	8.6	3.7	25.9	73.0	4.0	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

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