

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: P386364

Luminaire Tested: GAW-SA2A-730-U-SLR-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386364
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-730-U-SLR-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 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: 6566 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

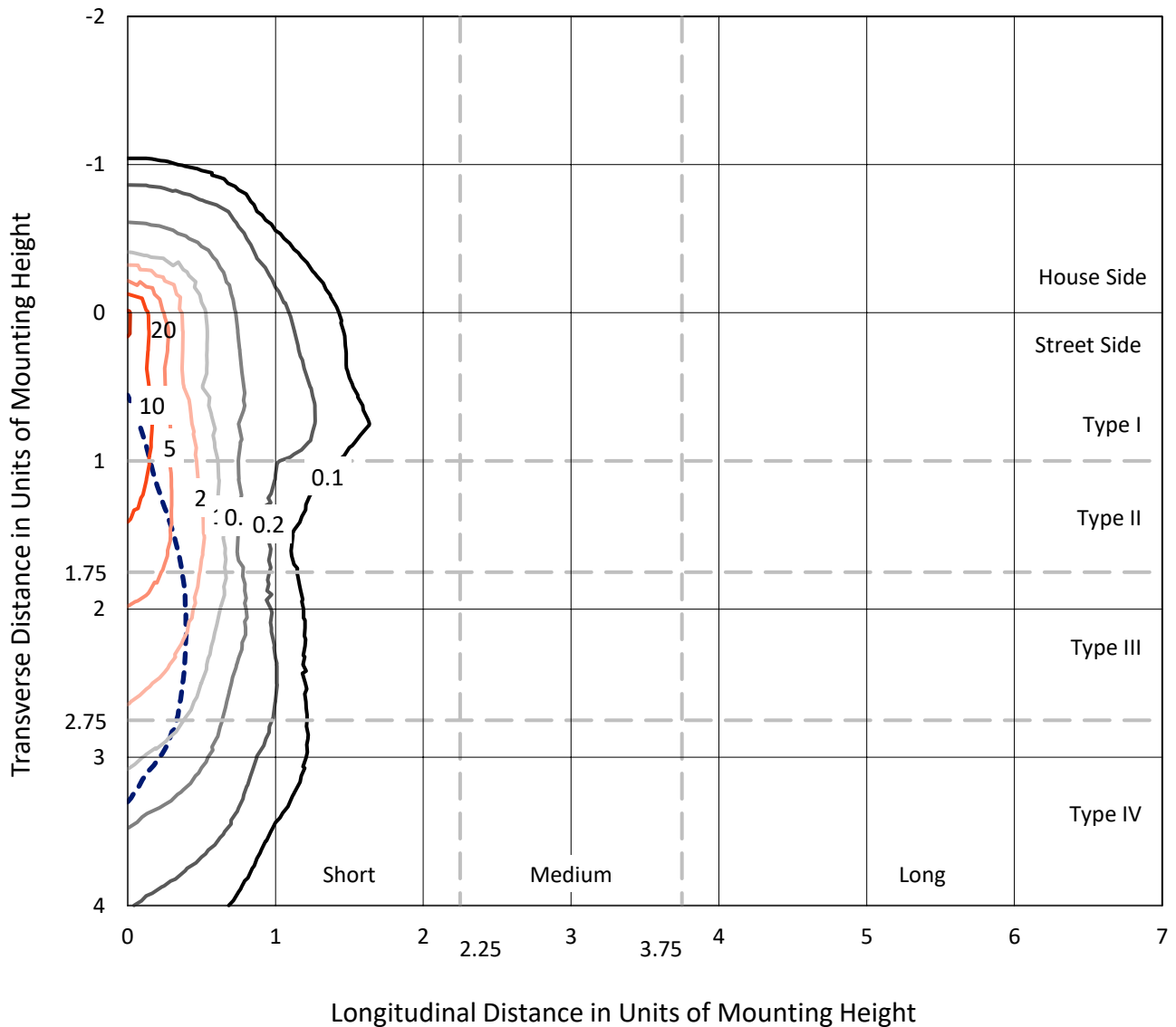
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

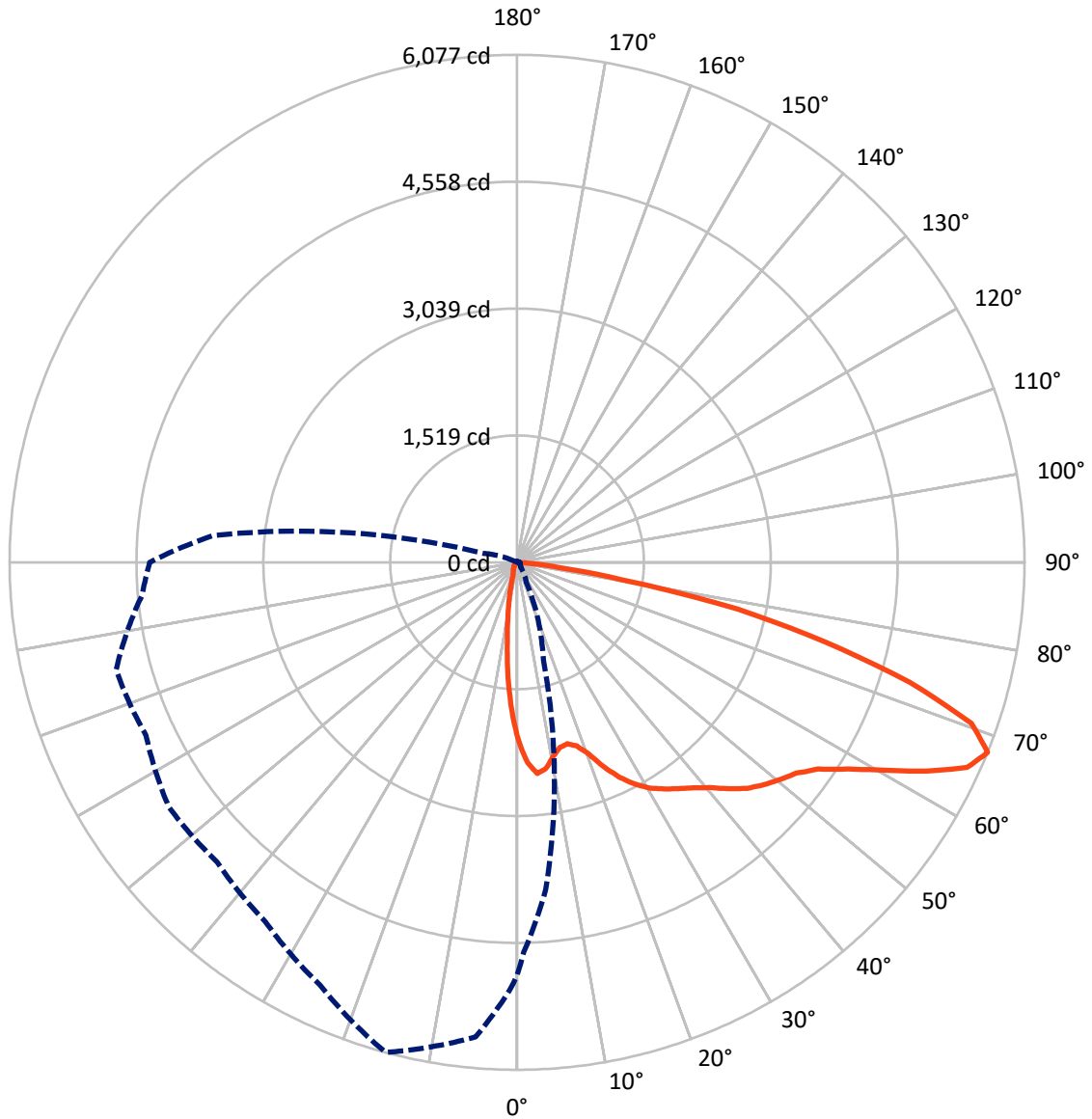
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.4 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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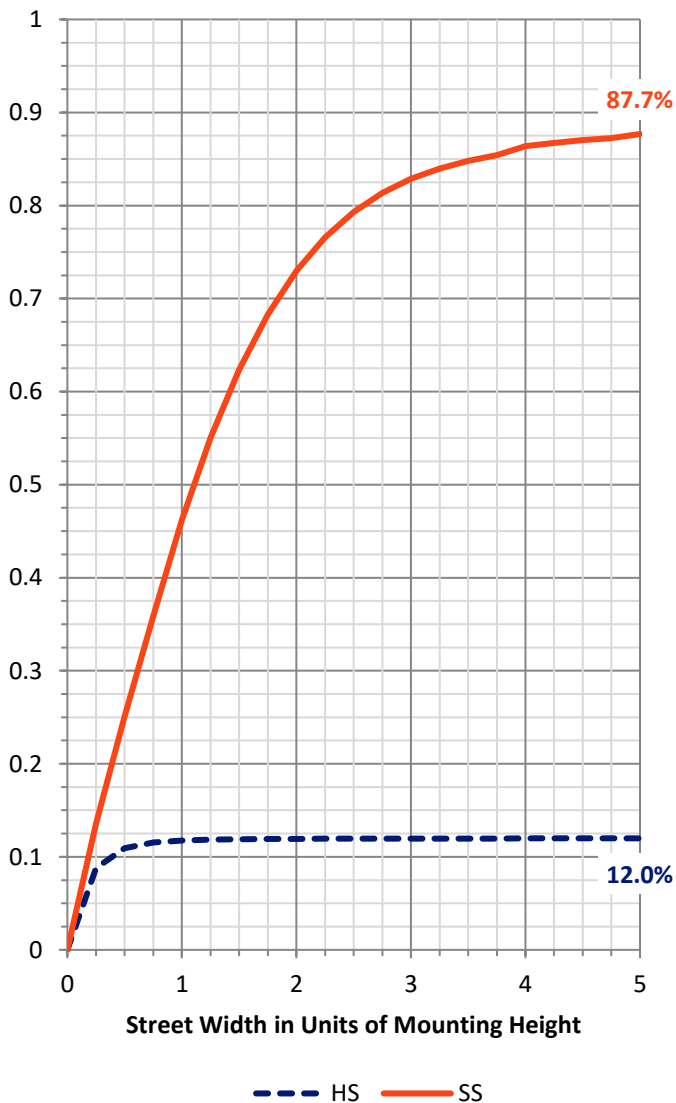
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	794.7	0.0	794.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	5771.3	0.0	5771.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	6566.0	0.0	6566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	2.5
10°-20°	326.7	5.0
20°-30°	464.0	7.1
30°-40°	685.3	10.4
40°-50°	988.4	15.1
50°-60°	1387.5	21.1
60°-70°	1617.4	24.6
70°-80°	826.9	12.6
80°-90°	105.6	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°	6566.0	100.0
0°-180°	6566.0	100.0

Coefficient of Utilization

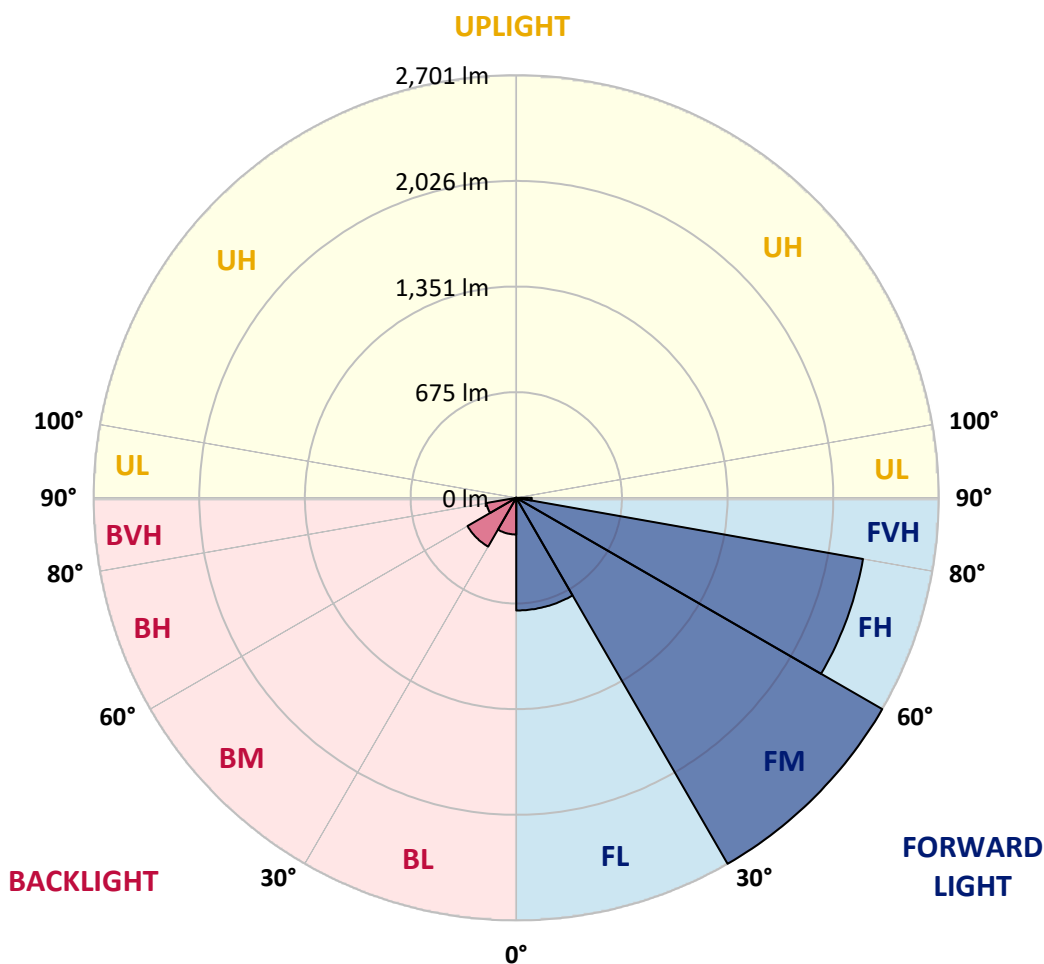


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	720.2	11.0			
FM (30°-60°)	2701.4	41.1			
FH (60°-80°)	2250.6	34.3			G2/5000
FVH (80°-90°)	99.2	1.5			G1/100
BL (0°-30°)	234.7	3.6	B1/500		
BM (30°-60°)	359.9	5.5	B1/1000		
BH (60°-80°)	193.7	3.0	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°	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9
2.5°	2342.0	2323.9	2304.0	2239.0	2178.7	2109.6	2053.3	2014.1	1965.0	1901.2	1885.0
5°	2325.2	2305.9	2243.4	2098.7	1972.1	1849.0	1730.1	1660.4	1574.0	1486.3	1464.5
7.5°	2156.3	2136.1	2045.9	1847.7	1677.2	1499.3	1345.0	1249.5	1151.9	1071.6	1029.0
10°	1980.5	1958.4	1857.0	1616.6	1406.6	1245.8	1132.6	1041.4	949.1	863.2	794.8
12.5°	1859.5	1830.6	1720.5	1448.0	1265.1	1155.9	1050.1	941.0	815.9	723.8	648.6
15°	1808.8	1775.9	1659.5	1383.0	1215.0	1086.9	949.1	815.0	668.5	563.0	494.0
17.5°	1848.0	1805.1	1680.4	1378.6	1152.2	977.7	803.5	646.1	487.1	380.4	331.3
20°	1981.2	1924.9	1766.5	1377.4	1076.0	848.0	627.1	449.2	321.0	258.2	232.4
22.5°	2190.8	2116.5	1890.3	1387.3	997.3	711.7	452.9	305.2	241.1	208.4	193.2
25°	2444.0	2357.8	2068.6	1422.5	928.2	579.2	329.1	241.1	203.4	179.5	166.7
27.5°	2684.8	2614.8	2293.8	1473.2	874.7	472.2	267.2	204.4	173.9	158.0	147.8
30°	2925.2	2837.2	2524.9	1533.5	810.3	399.7	234.9	186.3	155.8	139.0	132.5
32.5°	3100.0	3026.9	2705.9	1577.1	741.6	352.4	210.0	170.5	145.6	128.5	118.8
35°	3305.7	3222.9	2861.1	1586.7	697.4	322.6	188.8	153.4	126.3	111.0	100.8
37.5°	3527.8	3424.8	3040.3	1565.6	662.9	308.0	173.0	145.6	117.9	102.3	91.5
40°	3773.5	3657.2	3212.3	1535.1	629.0	303.0	160.8	139.7	111.4	95.5	84.3
42.5°	4032.3	3895.1	3361.3	1503.1	607.5	285.9	159.6	133.8	106.4	89.3	78.1
45°	4249.7	4110.7	3514.4	1492.5	592.3	267.2	164.9	129.7	103.0	84.3	73.4
47.5°	4423.0	4291.4	3671.2	1516.1	583.6	250.1	150.2	135.0	101.1	79.9	69.4
50°	4629.8	4480.8	3892.0	1586.7	570.8	233.0	135.9	154.6	101.1	77.1	65.9
52.5°	4889.3	4741.8	4138.4	1696.2	545.3	209.3	122.2	154.9	102.0	73.4	61.6
55°	5215.6	5108.6	4490.2	1816.3	504.5	174.5	105.8	133.1	98.3	66.6	57.5
57.5°	5528.5	5441.1	4810.9	1898.4	450.1	136.2	92.1	107.3	89.9	58.5	51.3
59°	5614.0	5518.6	4928.5	1902.1	409.4	118.8	85.2	88.7	88.0	54.7	47.6
60°	5614.0	5512.6	4962.4	1882.2	379.8	109.2	80.9	79.0	91.8	52.3	45.4
62.5°	5512.3	5369.9	4852.3	1747.5	309.8	93.0	70.6	65.3	82.4	47.0	40.1
65°	5300.8	5093.3	4477.1	1504.0	276.2	85.2	61.0	53.5	57.2	41.4	35.2
67.5°	4948.1	4666.9	3936.2	1215.0	262.8	83.1	52.6	45.4	43.2	35.5	30.8
70°	4326.9	4014.9	3279.5	955.3	251.3	82.1	44.2	38.3	34.8	29.9	26.1
72.5°	3149.2	2823.8	2328.3	746.9	244.5	84.0	35.5	32.0	28.6	23.3	20.2
75°	1801.4	1588.3	1308.6	493.3	208.4	80.3	27.4	26.8	20.5	16.8	14.0
77.5°	930.7	902.4	784.2	189.4	99.9	35.2	18.0	15.6	12.1	10.3	8.4
80°	401.6	397.2	343.7	54.7	26.4	19.6	10.3	6.5	5.6	4.4	3.4
82.5°	138.7	138.7	122.2	18.4	11.8	9.6	1.2	0.0	0.0	0.0	0.0
85°	28.0	31.4	22.1	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°	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9
2.5°	1865.4	1827.8	1825.3	1801.7	1772.1	1758.7	1751.0	1764.7	1781.5	1783.3	1808.5
5°	1448.0	1408.5	1425.0	1383.0	1391.4	1383.0	1369.3	1371.8	1379.2	1355.9	1384.8
7.5°	1016.9	987.0	1006.0	994.8	1009.7	1015.6	1007.2	994.8	958.1	953.7	978.9
10°	766.5	732.6	712.3	691.2	695.8	705.5	702.4	693.4	670.0	671.3	695.5
12.5°	615.9	578.0	537.8	485.9	473.1	480.3	473.1	467.8	445.4	447.3	468.8
15°	467.2	436.1	394.1	352.4	329.7	331.9	312.0	298.0	284.0	267.2	280.3
17.5°	315.4	296.4	284.0	271.6	244.5	238.3	213.1	186.0	175.4	167.7	173.3
20°	223.3	213.1	208.1	207.5	191.9	184.1	159.6	142.8	137.5	135.9	139.4
22.5°	186.6	179.2	172.0	168.0	160.2	151.2	132.5	124.1	120.4	118.5	121.0
25°	162.4	156.8	149.3	142.5	139.4	129.7	116.3	110.1	107.6	105.8	107.0
27.5°	144.3	139.4	130.6	126.3	123.8	115.4	103.9	98.9	96.7	96.1	95.8
30°	130.0	125.4	117.3	112.3	107.9	100.5	93.6	88.7	86.5	85.9	85.2
32.5°	115.7	112.0	106.7	101.7	97.1	90.2	84.3	80.3	76.8	76.2	75.9
35°	97.7	93.9	91.1	90.8	86.5	79.9	75.6	70.3	67.5	66.6	66.9
37.5°	86.8	81.8	75.6	77.8	76.5	71.9	65.9	60.7	57.9	57.2	57.2
40°	79.9	74.7	67.5	63.8	67.5	66.6	57.2	51.9	49.1	48.8	48.2
42.5°	73.4	68.1	60.0	53.8	55.7	58.5	49.5	44.5	41.7	41.1	40.1
45°	68.7	63.1	54.1	47.0	43.2	49.1	42.3	36.1	34.5	33.3	32.7
47.5°	64.4	59.1	48.8	40.7	34.5	35.5	33.9	29.6	27.7	26.4	26.1
50°	60.7	55.1	44.2	34.8	28.6	26.1	27.4	23.3	21.8	20.5	19.9
52.5°	56.3	51.0	39.2	30.2	24.0	20.5	20.8	18.4	16.8	15.9	15.6
55°	52.9	47.6	35.2	26.4	21.2	16.8	14.9	14.3	13.4	12.8	12.4
57.5°	48.2	43.2	31.1	22.4	18.0	13.7	11.5	11.5	11.2	10.6	10.3
59°	45.4	41.1	28.6	20.2	16.5	11.8	10.3	10.6	10.3	9.6	9.3
60°	43.2	39.2	26.8	18.7	15.6	10.9	9.3	10.0	9.6	9.0	8.7
62.5°	38.3	35.5	23.0	15.6	13.7	8.7	7.8	8.4	8.4	8.1	7.8
65°	33.6	30.5	19.6	13.1	12.8	7.5	6.2	7.5	7.8	7.2	6.5
67.5°	29.2	26.1	17.1	10.6	11.8	5.9	4.7	6.2	8.4	6.5	5.9
70°	24.9	21.8	13.4	8.4	12.4	4.0	3.7	5.6	10.0	7.2	5.6
72.5°	19.3	16.8	9.3	6.2	13.4	2.8	2.8	4.7	11.2	7.8	5.3
75°	13.4	10.9	5.6	3.7	10.9	1.9	1.9	4.4	10.6	7.2	5.0
77.5°	7.8	5.9	1.9	0.3	5.6	0.0	0.3	3.1	7.5	4.4	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°	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9
2.5°	1815.0	1857.0	1894.7	1951.6	2019.1	2096.9	2163.7	2235.6	2303.1	2331.1	2350.4
5°	1390.8	1442.7	1503.4	1587.0	1698.4	1835.6	1964.0	2109.3	2265.5	2343.5	2417.0
7.5°	983.3	1036.1	1111.4	1200.4	1335.1	1498.4	1666.4	1867.0	2078.5	2202.0	2323.6
10°	707.0	772.1	842.4	964.0	1100.8	1255.8	1428.7	1652.7	1888.5	2025.3	2171.8
12.5°	481.2	555.2	661.6	797.9	958.7	1110.5	1260.7	1474.4	1748.2	1883.8	2040.9
15°	288.7	329.7	442.3	600.0	797.3	986.4	1150.9	1365.3	1657.0	1823.1	1986.4
17.5°	177.9	196.9	258.2	387.6	594.8	834.0	1059.5	1328.2	1670.1	1872.3	2047.1
20°	141.8	149.3	168.9	228.9	394.1	666.0	956.5	1320.8	1776.8	2025.6	2213.2
22.5°	123.2	130.3	143.4	166.4	247.9	498.6	858.8	1327.6	1929.8	2255.5	2474.5
25°	108.6	114.8	127.2	146.2	181.7	351.2	754.3	1358.1	2129.2	2540.8	2773.4
27.5°	97.1	102.3	113.8	131.3	155.8	245.1	635.8	1395.1	2365.6	2832.5	3062.1
30°	86.5	91.1	101.4	117.6	135.3	188.5	505.8	1420.3	2602.3	3062.1	3268.3
32.5°	77.5	80.9	90.2	103.9	117.6	150.2	384.5	1416.3	2778.1	3253.1	3416.7
35°	68.1	71.5	79.6	91.5	102.3	124.1	302.4	1340.7	2931.1	3451.2	3586.5
37.5°	57.9	62.2	70.0	80.6	88.0	109.2	244.5	1249.5	3086.4	3677.7	3776.0
40°	49.1	53.5	60.3	71.9	76.5	103.6	187.9	1138.5	3260.9	3930.9	3983.8
42.5°	40.7	44.8	51.9	61.9	72.2	89.3	139.0	1011.6	3428.5	4147.4	4173.2
45°	33.0	37.0	44.5	54.4	77.1	74.0	107.6	875.6	3563.8	4327.5	4335.9
47.5°	26.1	29.9	37.6	51.3	71.9	59.1	76.8	768.9	3677.4	4468.1	4446.0
50°	20.2	23.3	31.4	58.8	62.8	48.8	58.2	733.5	3779.1	4555.2	4498.0
52.5°	15.9	18.7	25.8	55.1	48.8	40.4	48.8	766.8	3918.4	4627.4	4527.2
55°	12.8	15.6	20.2	31.4	33.3	34.2	41.7	797.9	4158.9	4796.6	4699.8
57.5°	10.6	13.4	16.5	22.1	25.2	28.9	37.0	801.3	4442.3	5077.8	4986.3
59°	9.6	12.1	14.9	19.6	22.1	26.4	34.8	782.6	4542.1	5180.1	5134.4
60°	9.0	11.5	14.0	18.0	20.5	24.9	33.6	764.9	4546.5	5176.4	5197.5
62.5°	7.8	10.3	12.4	15.2	17.4	21.2	30.2	699.3	4362.3	5006.9	5159.6
65°	6.8	9.0	11.2	13.1	14.9	19.0	27.4	579.5	4047.8	4733.4	4899.8
67.5°	6.2	7.8	10.3	11.5	13.4	16.8	24.3	413.1	3655.0	4399.0	4507.0
70°	5.6	7.5	9.3	10.6	12.1	14.6	20.8	237.3	3086.4	3909.4	3986.3
72.5°	5.3	7.2	8.4	10.0	10.9	13.1	19.0	111.7	2259.9	3131.8	3332.4
75°	4.7	6.5	7.8	9.3	10.3	11.8	16.2	53.5	1503.1	2266.4	2494.4
77.5°	2.8	5.3	7.2	8.4	9.0	10.3	13.4	30.8	959.3	1568.7	1847.7
80°	0.0	1.9	5.3	7.2	7.8	8.7	10.3	24.3	513.3	896.2	1075.7
82.5°	0.0	0.0	3.7	5.6	5.3	5.9	7.8	15.2	231.4	585.7	660.1
85°	0.0	0.0	1.2	4.4	3.7	2.8	5.3	5.3	50.7	296.4	369.9
87.5°	0.0	0.0	0.0	0.3	1.9	1.2	2.2	0.6	0.3	22.1	89.6
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°	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9	2138.9
2.5°	2417.9	2440.9	2479.8	2498.1	2489.1	2450.9	2405.1	2358.5	2331.1	2342.0
5°	2566.6	2685.1	2753.5	2776.2	2738.3	2652.4	2540.1	2392.1	2339.5	2325.2
7.5°	2566.6	2789.6	2930.8	2955.7	2871.1	2702.8	2492.2	2261.1	2184.3	2156.3
10°	2476.4	2780.0	2976.9	3016.4	2898.2	2646.5	2364.4	2100.6	2009.5	1980.5
12.5°	2374.6	2701.6	2909.1	2963.5	2866.4	2590.5	2275.7	1992.0	1884.7	1859.5
15°	2312.1	2605.1	2776.9	2816.4	2775.3	2557.9	2254.6	1959.4	1833.1	1808.8
17.5°	2334.5	2530.5	2592.4	2615.4	2643.1	2546.4	2312.1	2030.9	1871.0	1848.0
20°	2418.8	2451.8	2419.8	2448.7	2523.3	2557.6	2449.3	2203.9	2011.9	1981.2
22.5°	2561.9	2411.0	2321.1	2332.7	2423.5	2594.6	2659.0	2450.9	2229.4	2190.8
25°	2728.6	2444.0	2266.4	2256.1	2349.5	2643.4	2850.6	2719.6	2486.6	2444.0
27.5°	2938.3	2518.0	2255.2	2244.9	2323.6	2689.1	3009.8	2985.3	2757.6	2684.8
30°	3100.0	2590.8	2288.5	2264.8	2349.5	2720.9	3137.7	3210.8	2973.4	2925.2
32.5°	3216.1	2676.7	2342.6	2308.4	2422.2	2775.6	3236.3	3417.3	3173.1	3100.0
35°	3304.4	2770.0	2430.0	2373.7	2522.4	2858.7	3328.7	3637.2	3385.6	3305.7
37.5°	3387.2	2901.0	2566.6	2499.4	2679.5	2992.4	3426.3	3886.7	3623.3	3527.8
40°	3502.6	3049.3	2777.2	2717.4	2943.6	3174.7	3548.3	4146.8	3893.6	3773.5
42.5°	3618.0	3208.6	2992.7	3008.9	3273.0	3396.2	3705.7	4421.7	4160.5	4032.3
45°	3723.4	3372.8	3299.7	3374.4	3578.8	3639.1	3862.1	4580.7	4373.5	4249.7
47.5°	3817.4	3578.1	3604.9	3803.7	3926.5	3859.0	3979.1	4717.9	4532.2	4423.0
50°	3926.5	3843.8	4007.1	4288.3	4326.9	4058.1	4085.5	4880.3	4717.6	4629.8
52.5°	4046.0	4123.7	4452.5	4700.5	4688.0	4274.3	4192.5	5062.2	4971.7	4889.3
55°	4181.6	4349.9	4844.8	5086.2	5075.6	4515.7	4369.8	5287.1	5290.2	5215.6
57.5°	4382.9	4544.6	5111.1	5398.2	5415.9	4794.4	4670.3	5539.1	5578.3	5528.5
59°	4527.2	4670.9	5216.5	5528.5	5600.7	5010.0	4889.9	5685.3	5659.5	5614.0
60°	4634.2	4751.2	5268.8	5596.6	5708.0	5156.2	5052.0	5771.1	5669.1	5614.0
62.5°	4898.9	4926.0	5363.0	5673.8	5831.5	5480.9	5508.0	5917.3	5602.2	5512.3
65°	5022.4	5036.4	5361.8	5535.7	5712.0	5733.8	5921.7	5921.7	5438.9	5300.8
67.5°	4970.8	4903.3	5095.8	5077.8	5253.8	5583.6	6077.2	5704.6	5126.6	4948.1
70°	4550.8	4291.1	4205.6	4213.3	4348.0	4856.6	5769.3	5065.6	4535.6	4326.9
72.5°	3786.6	3163.5	2952.3	3193.4	3228.5	3732.4	4916.6	3814.9	3344.8	3149.2
75°	3045.6	2230.0	1886.6	2141.0	2200.8	2731.4	3803.4	2375.9	1953.8	1801.4
77.5°	2188.0	1600.7	1353.7	1336.0	1413.2	1732.3	2698.8	1195.7	997.3	930.7
80°	1243.0	1053.6	1134.4	1070.4	1109.2	1083.1	1282.2	524.5	429.6	401.6
82.5°	750.3	622.7	674.4	561.5	710.5	618.7	494.0	168.0	145.9	138.7
85°	488.1	340.3	177.3	118.8	244.8	395.4	110.4	45.7	35.2	28.0
87.5°	168.3	86.8	8.7	3.7	26.1	73.7	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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