

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: P386168

Luminaire Tested: GAW-SA1D-740-U-SLR-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386168
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-740-U-SLR-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 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: 6144 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

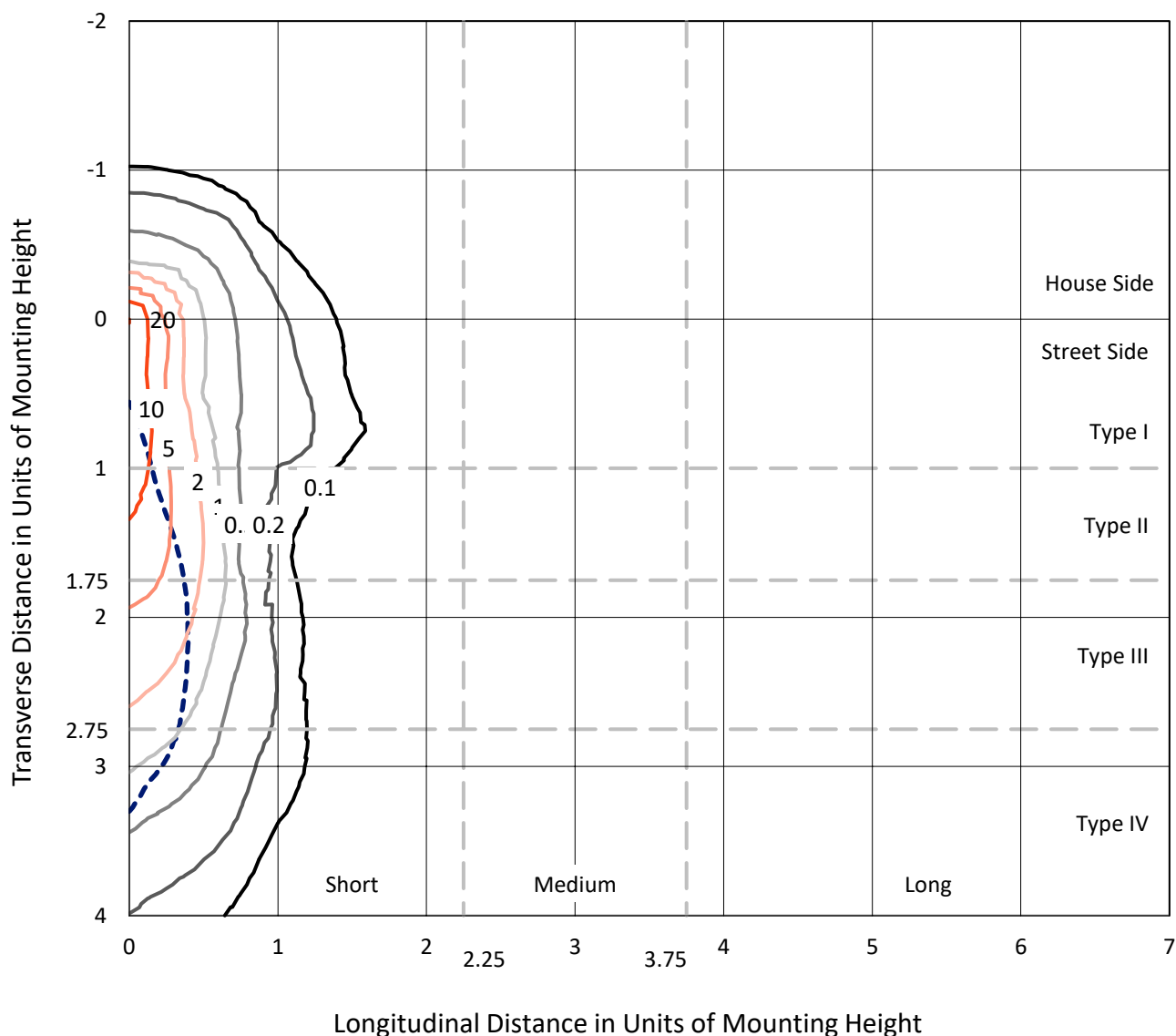
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

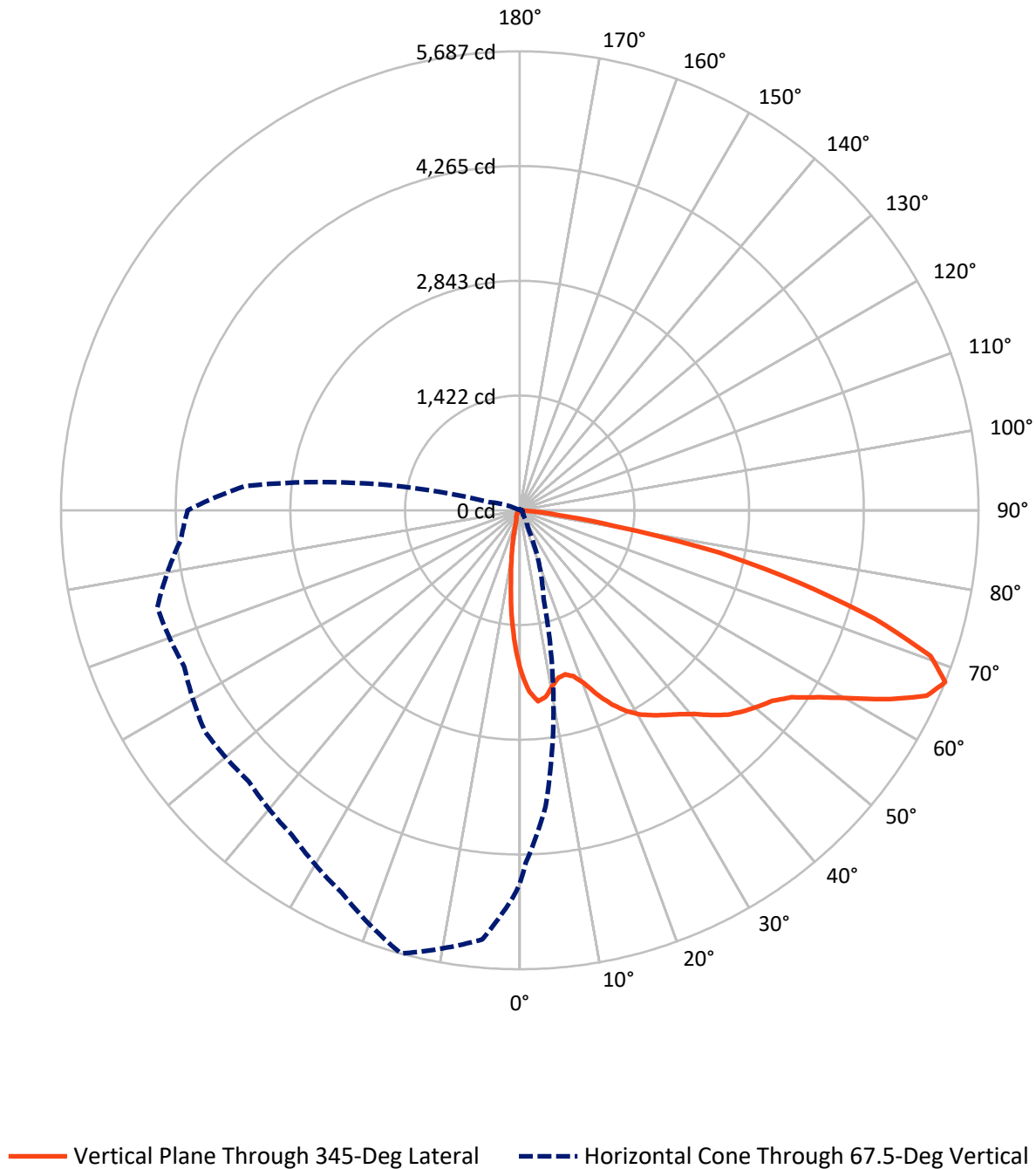
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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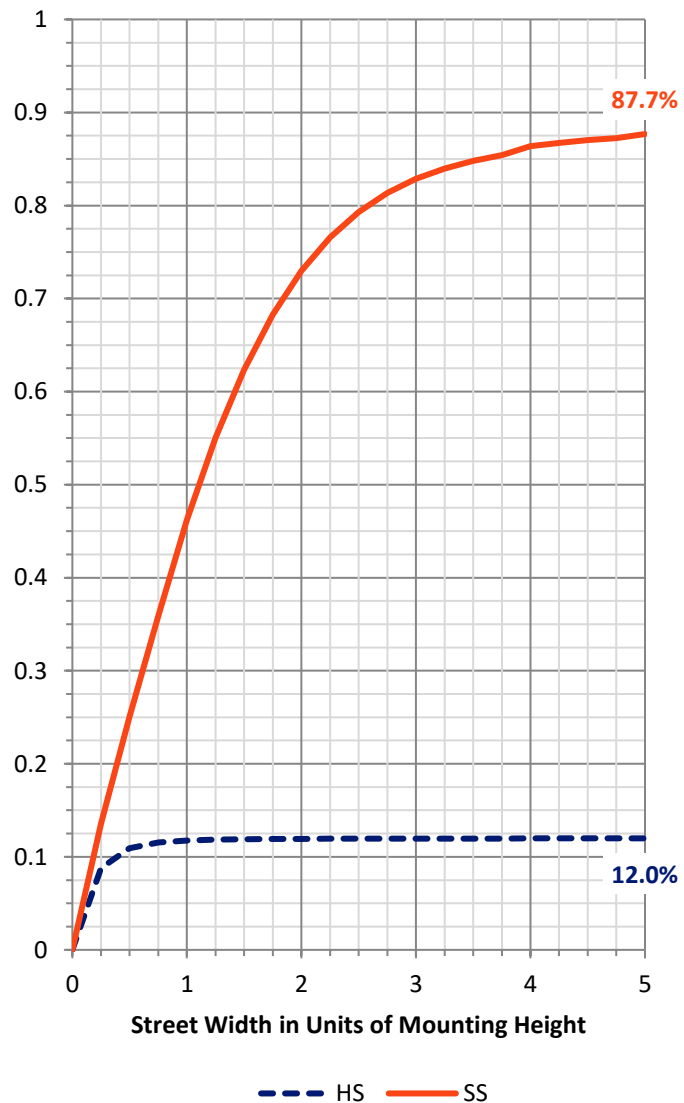
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	743.6	0.0	743.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	5400.4	0.0	5400.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	6144.0	0.0	6144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	2.5
10°-20°	305.7	5.0
20°-30°	434.2	7.1
30°-40°	641.3	10.4
40°-50°	924.9	15.1
50°-60°	1298.3	21.1
60°-70°	1513.5	24.6
70°-80°	773.7	12.6
80°-90°	98.8	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°	6144.0	100.0
0°-180°	6144.0	100.0

Coefficient of Utilization



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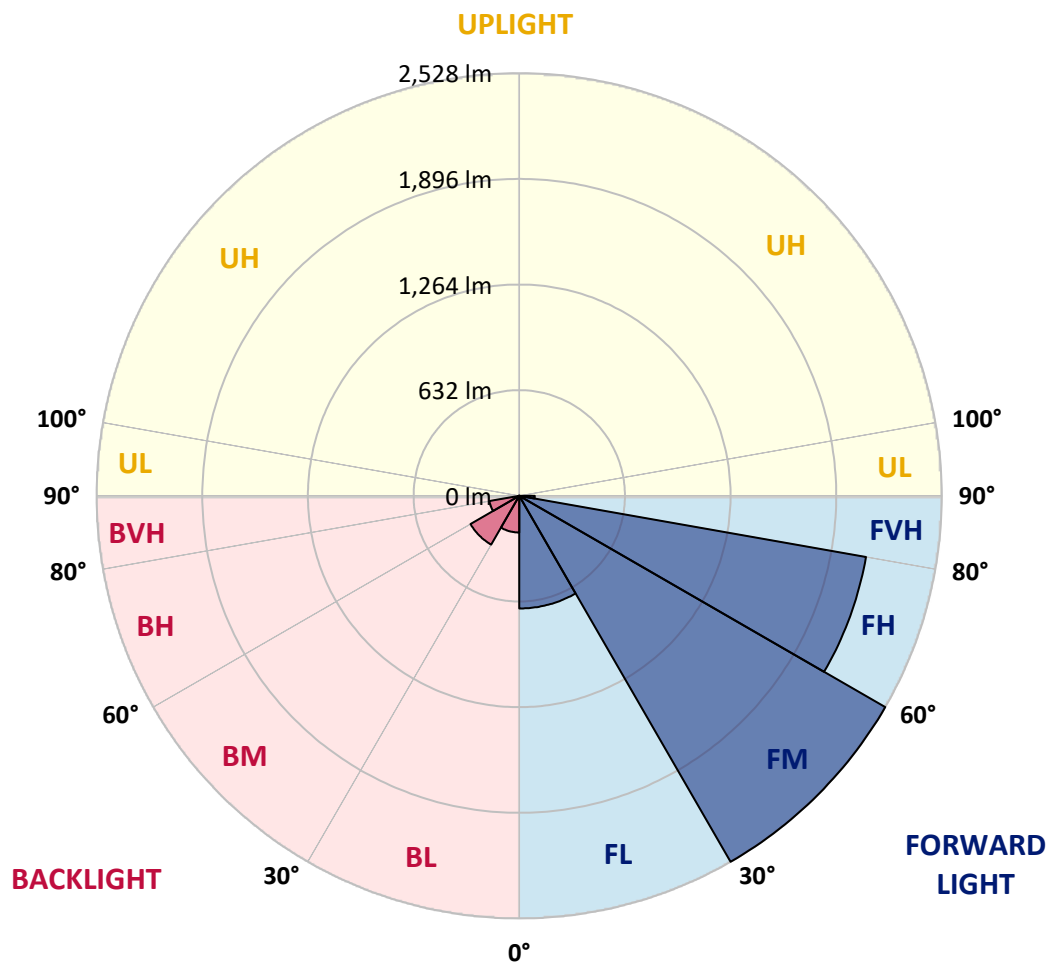
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	673.9	11.0			
FM	(30°-60°)	2527.7	41.1			
FH	(60°-80°)	2105.9	34.3			G2/5000
FVH	(80°-90°)	92.8	1.5			G1/100
BL	(0°-30°)	219.6	3.6	B1/500		
BM	(30°-60°)	336.7	5.5	B1/1000		
BH	(60°-80°)	181.2	2.9	B1/500		G1/500
BVH	(80°-90°)	6.0	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°	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4
2.5°	2191.5	2174.6	2156.0	2095.1	2038.7	1974.0	1921.4	1884.7	1838.7	1779.0	1763.9
5°	2175.7	2157.7	2099.2	1963.8	1845.4	1730.1	1618.9	1553.7	1472.8	1390.7	1370.4
7.5°	2017.7	1998.8	1914.4	1729.0	1569.4	1403.0	1258.6	1169.2	1077.8	1002.7	962.9
10°	1853.2	1832.6	1737.7	1512.7	1316.2	1165.7	1059.8	974.5	888.1	807.7	743.7
12.5°	1740.0	1712.9	1609.9	1354.9	1183.8	1081.6	982.7	880.5	763.5	677.3	606.9
15°	1692.6	1661.7	1552.9	1294.1	1136.9	1017.0	888.1	762.6	625.5	526.8	462.2
17.5°	1729.2	1689.1	1572.4	1290.0	1078.1	914.8	751.8	604.6	455.8	356.0	310.0
20°	1853.8	1801.1	1653.0	1288.9	1006.8	793.5	586.8	420.3	300.4	241.6	217.4
22.5°	2050.0	1980.4	1768.8	1298.2	933.2	666.0	423.8	285.5	225.6	195.0	180.8
25°	2286.9	2206.3	1935.6	1331.1	868.6	542.0	308.0	225.6	190.4	167.9	156.0
27.5°	2512.2	2446.7	2146.3	1378.5	818.5	441.8	250.0	191.2	162.7	147.9	138.3
30°	2737.2	2654.8	2362.6	1435.0	758.2	374.0	219.8	174.4	145.8	130.1	124.0
32.5°	2900.8	2832.4	2532.0	1475.7	693.9	329.8	196.5	159.5	136.2	120.2	111.2
35°	3093.2	3015.8	2677.3	1484.7	652.6	301.8	176.7	143.5	118.2	103.9	94.3
37.5°	3301.0	3204.7	2844.9	1465.0	620.3	288.2	161.8	136.2	110.3	95.8	85.6
40°	3531.0	3422.1	3005.9	1436.4	588.5	283.5	150.5	130.7	104.2	89.4	78.9
42.5°	3773.1	3644.8	3145.3	1406.4	568.5	267.5	149.3	125.2	99.5	83.5	73.1
45°	3976.6	3846.5	3288.5	1396.6	554.2	250.0	154.3	121.4	96.3	78.9	68.7
47.5°	4138.7	4015.6	3435.2	1418.7	546.0	234.0	140.6	126.3	94.6	74.8	64.9
50°	4332.3	4192.9	3641.9	1484.7	534.1	218.0	127.2	144.7	94.6	72.2	61.7
52.5°	4575.0	4437.1	3872.4	1587.2	510.2	195.9	114.4	145.0	95.5	68.7	57.6
55°	4880.4	4780.2	4201.6	1699.6	472.1	163.3	99.0	124.6	92.0	62.3	53.8
57.5°	5173.2	5091.4	4501.7	1776.4	421.2	127.5	86.2	100.4	84.1	54.7	48.0
59°	5253.2	5163.9	4611.7	1779.9	383.0	111.2	79.8	83.0	82.4	51.2	44.5
60°	5253.2	5158.3	4643.4	1761.3	355.4	102.2	75.7	73.9	85.9	48.9	42.5
62.5°	5158.0	5024.7	4540.4	1635.2	289.9	87.0	66.1	61.1	77.1	44.0	37.5
65°	4960.1	4766.0	4189.4	1407.3	258.5	79.8	57.0	50.1	53.6	38.7	32.9
67.5°	4630.0	4366.9	3683.2	1136.9	246.0	77.7	49.2	42.5	40.5	33.2	28.8
70°	4048.8	3756.8	3068.7	893.9	235.2	76.8	41.3	35.8	32.6	27.9	24.4
72.5°	2946.8	2642.3	2178.7	698.9	228.8	78.6	33.2	30.0	26.8	21.8	18.9
75°	1685.6	1486.2	1224.5	461.6	195.0	75.1	25.6	25.0	19.2	15.7	13.1
77.5°	870.9	844.4	733.8	177.3	93.4	32.9	16.9	14.6	11.4	9.6	7.9
80°	375.8	371.7	321.6	51.2	24.7	18.3	9.6	6.1	5.2	4.1	3.2
82.5°	129.8	129.8	114.4	17.2	11.1	9.0	1.2	0.0	0.0	0.0	0.0
85°	26.2	29.4	20.7	0.0	3.8	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°	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4
2.5°	1745.5	1710.3	1708.0	1685.9	1658.2	1645.7	1638.4	1651.2	1667.0	1668.7	1692.3
5°	1354.9	1318.0	1333.4	1294.1	1302.0	1294.1	1281.3	1283.6	1290.6	1268.8	1295.8
7.5°	951.5	923.6	941.3	930.8	944.8	950.3	942.5	930.8	896.5	892.4	916.0
10°	717.2	685.5	666.6	646.8	651.1	660.1	657.2	648.8	627.0	628.1	650.8
12.5°	576.3	540.8	503.3	454.7	442.7	449.4	442.7	437.8	416.8	418.6	438.6
15°	437.2	408.1	368.8	329.8	308.5	310.6	291.9	278.8	265.7	250.0	262.3
17.5°	295.1	277.4	265.7	254.1	228.8	223.0	199.4	174.1	164.2	156.9	162.1
20°	209.0	199.4	194.7	194.1	179.6	172.3	149.3	133.6	128.7	127.2	130.4
22.5°	174.6	167.7	161.0	157.2	149.9	141.5	124.0	116.1	112.6	110.9	113.2
25°	151.9	146.7	139.7	133.3	130.4	121.4	108.9	103.0	100.7	99.0	100.1
27.5°	135.1	130.4	122.2	118.2	115.8	108.0	97.2	92.6	90.5	89.9	89.6
30°	121.7	117.3	109.7	105.1	101.0	94.0	87.6	83.0	80.9	80.3	79.8
32.5°	108.3	104.8	99.8	95.2	90.8	84.4	78.9	75.1	71.9	71.3	71.0
35°	91.4	87.9	85.3	85.0	80.9	74.8	70.7	65.8	63.2	62.3	62.6
37.5°	81.2	76.6	70.7	72.8	71.6	67.2	61.7	56.8	54.1	53.6	53.6
40°	74.8	69.9	63.2	59.7	63.2	62.3	53.6	48.6	46.0	45.7	45.1
42.5°	68.7	63.7	56.2	50.4	52.1	54.7	46.3	41.6	39.0	38.4	37.5
45°	64.3	59.1	50.6	44.0	40.5	46.0	39.6	33.8	32.3	31.1	30.6
47.5°	60.3	55.3	45.7	38.1	32.3	33.2	31.7	27.7	25.9	24.7	24.4
50°	56.8	51.5	41.3	32.6	26.8	24.4	25.6	21.8	20.4	19.2	18.6
52.5°	52.7	47.7	36.7	28.2	22.4	19.2	19.5	17.2	15.7	14.8	14.6
55°	49.5	44.5	32.9	24.7	19.8	15.7	14.0	13.4	12.5	11.9	11.6
57.5°	45.1	40.5	29.1	21.0	16.9	12.8	10.8	10.8	10.5	9.9	9.6
59°	42.5	38.4	26.8	18.9	15.4	11.1	9.6	9.9	9.6	9.0	8.7
60°	40.5	36.7	25.0	17.5	14.6	10.2	8.7	9.3	9.0	8.4	8.1
62.5°	35.8	33.2	21.5	14.6	12.8	8.1	7.3	7.9	7.9	7.6	7.3
65°	31.4	28.5	18.3	12.2	11.9	7.0	5.8	7.0	7.3	6.7	6.1
67.5°	27.4	24.4	16.0	9.9	11.1	5.5	4.4	5.8	7.9	6.1	5.5
70°	23.3	20.4	12.5	7.9	11.6	3.8	3.5	5.2	9.3	6.7	5.2
72.5°	18.0	15.7	8.7	5.8	12.5	2.6	2.6	4.4	10.5	7.3	4.9
75°	12.5	10.2	5.2	3.5	10.2	1.7	1.7	4.1	9.9	6.7	4.7
77.5°	7.3	5.5	1.7	0.3	5.2	0.0	0.3	2.9	7.0	4.1	2.0
80°	2.6	1.2	0.0	0.0	3.2	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°	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4
2.5°	1698.4	1737.7	1772.9	1826.2	1889.3	1962.1	2024.7	2091.9	2155.1	2181.3	2199.3
5°	1301.4	1350.0	1406.7	1485.0	1589.2	1717.6	1837.8	1973.7	2119.9	2192.9	2261.6
7.5°	920.1	969.6	1040.0	1123.2	1249.3	1402.1	1559.3	1747.0	1944.9	2060.5	2174.3
10°	661.6	722.4	788.2	902.0	1030.1	1175.0	1336.9	1546.5	1767.1	1895.2	2032.3
12.5°	450.3	519.6	619.1	746.6	897.1	1039.1	1179.7	1379.7	1635.8	1762.7	1909.7
15°	270.1	308.5	413.9	561.5	746.0	923.0	1077.0	1277.5	1550.5	1706.0	1858.8
17.5°	166.5	184.2	241.6	362.7	556.5	780.4	991.4	1242.9	1562.8	1751.9	1915.5
20°	132.7	139.7	158.1	214.2	368.8	623.2	895.0	1235.9	1662.6	1895.4	2071.0
22.5°	115.3	122.0	134.2	155.7	232.0	466.6	803.6	1242.3	1805.8	2110.5	2315.5
25°	101.6	107.4	119.0	136.8	170.0	328.6	705.8	1270.8	1992.4	2377.5	2595.2
27.5°	90.8	95.8	106.5	122.8	145.8	229.4	594.9	1305.4	2213.6	2650.5	2865.3
30°	80.9	85.3	94.9	110.0	126.6	176.4	473.3	1329.0	2435.1	2865.3	3058.3
32.5°	72.5	75.7	84.4	97.2	110.0	140.6	359.8	1325.2	2599.5	3044.0	3197.1
35°	63.7	66.9	74.5	85.6	95.8	116.1	282.9	1254.5	2742.8	3229.4	3356.0
37.5°	54.1	58.2	65.5	75.4	82.4	102.2	228.8	1169.2	2888.0	3441.3	3533.3
40°	46.0	50.1	56.5	67.2	71.6	96.9	175.8	1065.3	3051.3	3678.3	3727.7
42.5°	38.1	41.9	48.6	57.9	67.5	83.5	130.1	946.6	3208.2	3880.8	3905.0
45°	30.9	34.6	41.6	50.9	72.2	69.3	100.7	819.4	3334.8	4049.4	4057.2
47.5°	24.4	27.9	35.2	48.0	67.2	55.3	71.9	719.5	3441.0	4180.9	4160.3
50°	18.9	21.8	29.4	55.0	58.8	45.7	54.4	686.3	3536.2	4262.4	4208.9
52.5°	14.8	17.5	24.2	51.5	45.7	37.8	45.7	717.5	3666.6	4330.0	4236.2
55°	11.9	14.6	18.9	29.4	31.1	32.0	39.0	746.6	3891.6	4488.3	4397.8
57.5°	9.9	12.5	15.4	20.7	23.6	27.1	34.6	749.8	4156.8	4751.4	4665.9
59°	9.0	11.4	14.0	18.3	20.7	24.7	32.6	732.3	4250.2	4847.2	4804.4
60°	8.4	10.8	13.1	16.9	19.2	23.3	31.4	715.7	4254.3	4843.7	4863.5
62.5°	7.3	9.6	11.6	14.3	16.3	19.8	28.2	654.3	4082.0	4685.1	4828.0
65°	6.4	8.4	10.5	12.2	14.0	17.8	25.6	542.3	3787.7	4429.2	4584.9
67.5°	5.8	7.3	9.6	10.8	12.5	15.7	22.7	386.5	3420.1	4116.3	4217.3
70°	5.2	7.0	8.7	9.9	11.4	13.7	19.5	222.1	2888.0	3658.2	3730.1
72.5°	4.9	6.7	7.9	9.3	10.2	12.2	17.8	104.5	2114.6	2930.5	3118.2
75°	4.4	6.1	7.3	8.7	9.6	11.1	15.1	50.1	1406.4	2120.7	2334.1
77.5°	2.6	4.9	6.7	7.9	8.4	9.6	12.5	28.8	897.7	1467.9	1729.0
80°	0.0	1.7	4.9	6.7	7.3	8.1	9.6	22.7	480.3	838.6	1006.5
82.5°	0.0	0.0	3.5	5.2	4.9	5.5	7.3	14.3	216.6	548.1	617.7
85°	0.0	0.0	1.2	4.1	3.5	2.6	4.9	4.9	47.4	277.4	346.1
87.5°	0.0	0.0	0.0	0.3	1.7	1.2	2.0	0.6	0.3	20.7	83.8
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°	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4	2001.4
2.5°	2262.5	2284.0	2320.4	2337.6	2329.1	2293.3	2250.6	2206.9	2181.3	2191.5
5°	2401.6	2512.5	2576.6	2597.8	2562.3	2482.0	2376.9	2238.3	2189.1	2175.7
7.5°	2401.6	2610.3	2742.5	2765.7	2686.6	2529.1	2332.1	2115.8	2043.9	2017.7
10°	2317.2	2601.3	2785.5	2822.5	2711.9	2476.4	2212.4	1965.6	1880.3	1853.2
12.5°	2222.0	2527.9	2722.1	2773.0	2682.2	2424.0	2129.5	1864.0	1763.6	1740.0
15°	2163.5	2437.7	2598.4	2635.3	2596.9	2393.5	2109.7	1833.4	1715.3	1692.6
17.5°	2184.5	2367.9	2425.8	2447.3	2473.2	2382.7	2163.5	1900.4	1750.8	1729.2
20°	2263.4	2294.2	2264.2	2291.3	2361.2	2393.2	2291.9	2062.2	1882.6	1853.8
22.5°	2397.3	2256.1	2172.0	2182.7	2267.7	2427.8	2488.1	2293.3	2086.1	2050.0
25°	2553.3	2286.9	2120.7	2111.1	2198.5	2473.5	2667.4	2544.8	2326.8	2286.9
27.5°	2749.4	2356.2	2110.3	2100.7	2174.3	2516.3	2816.4	2793.4	2580.3	2512.2
30°	2900.8	2424.3	2141.4	2119.3	2198.5	2546.0	2936.0	3004.4	2782.3	2737.2
32.5°	3009.4	2504.7	2192.0	2160.0	2266.6	2597.2	3028.3	3197.7	2969.2	2900.8
35°	3092.0	2592.0	2273.8	2221.2	2360.3	2674.9	3114.7	3403.5	3168.0	3093.2
37.5°	3169.5	2714.5	2401.6	2338.7	2507.3	2800.1	3206.1	3636.9	3390.4	3301.0
40°	3277.4	2853.4	2598.7	2542.8	2754.4	2970.7	3320.2	3880.3	3643.3	3531.0
42.5°	3385.4	3002.4	2800.4	2815.5	3062.6	3177.9	3467.5	4137.6	3893.1	3773.1
45°	3484.1	3156.1	3087.7	3157.5	3348.8	3405.2	3613.9	4286.3	4092.4	3976.6
47.5°	3572.0	3348.2	3373.2	3559.2	3674.2	3611.0	3723.4	4414.7	4240.9	4138.7
50°	3674.2	3596.8	3749.6	4012.7	4048.8	3797.3	3822.9	4566.6	4414.4	4332.3
52.5°	3785.9	3858.7	4166.4	4398.4	4386.7	3999.6	3923.0	4736.9	4652.2	4575.0
55°	3912.9	4070.3	4533.4	4759.3	4749.4	4225.5	4088.9	4947.3	4950.2	4880.4
57.5°	4101.2	4252.5	4782.6	5051.2	5067.8	4486.3	4370.1	5183.1	5219.8	5173.2
59°	4236.2	4370.7	4881.2	5173.2	5240.7	4688.0	4575.6	5319.9	5295.7	5253.2
60°	4336.4	4445.8	4930.1	5236.9	5341.1	4824.8	4727.3	5400.2	5304.7	5253.2
62.5°	4584.1	4609.4	5018.3	5309.1	5456.7	5128.7	5154.0	5537.0	5242.2	5158.0
65°	4699.6	4712.7	5017.2	5179.9	5344.9	5365.3	5541.1	5541.1	5089.4	4960.1
67.5°	4651.3	4588.1	4768.3	4751.4	4916.2	5224.7	5686.6	5337.9	4797.1	4630.0
70°	4258.4	4015.3	3935.3	3942.5	4068.6	4544.5	5398.5	4740.1	4244.1	4048.8
72.5°	3543.2	2960.2	2762.5	2988.1	3021.0	3492.5	4600.7	3569.7	3129.9	2946.8
75°	2849.9	2086.7	1765.3	2003.4	2059.3	2555.9	3558.9	2223.2	1828.2	1685.6
77.5°	2047.4	1497.8	1266.7	1250.1	1322.3	1621.0	2525.3	1118.9	933.2	870.9
80°	1163.1	985.9	1061.5	1001.6	1038.0	1013.5	1199.8	490.7	402.0	375.8
82.5°	702.1	582.7	631.0	525.4	664.8	578.9	462.2	157.2	136.5	129.8
85°	456.7	318.4	165.9	111.2	229.1	369.9	103.3	42.8	32.9	26.2
87.5°	157.5	81.2	8.1	3.5	24.4	69.0	3.8	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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