

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P324587

Luminaire Tested: **GAN-SA3A-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324587
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 7753 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

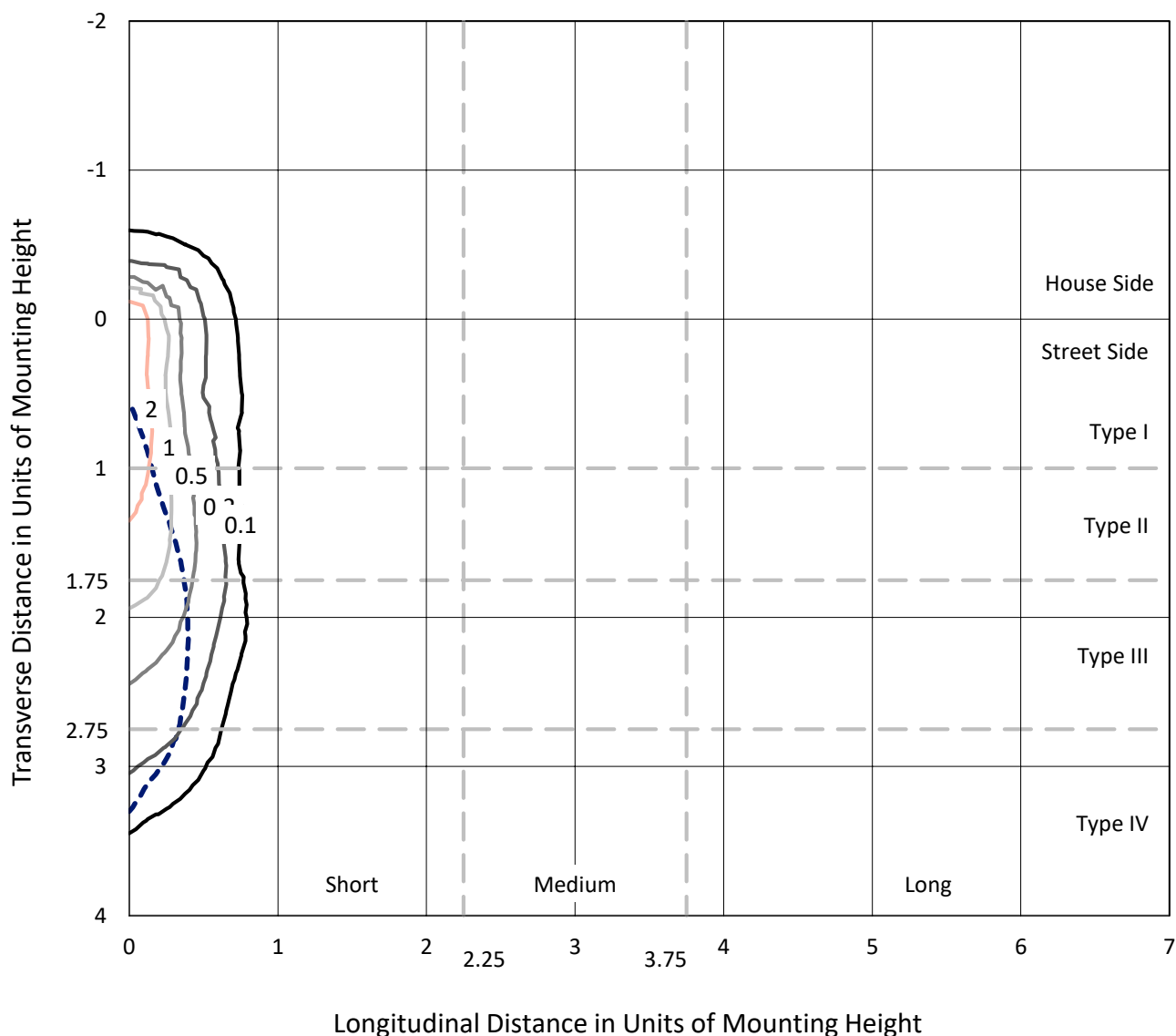
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

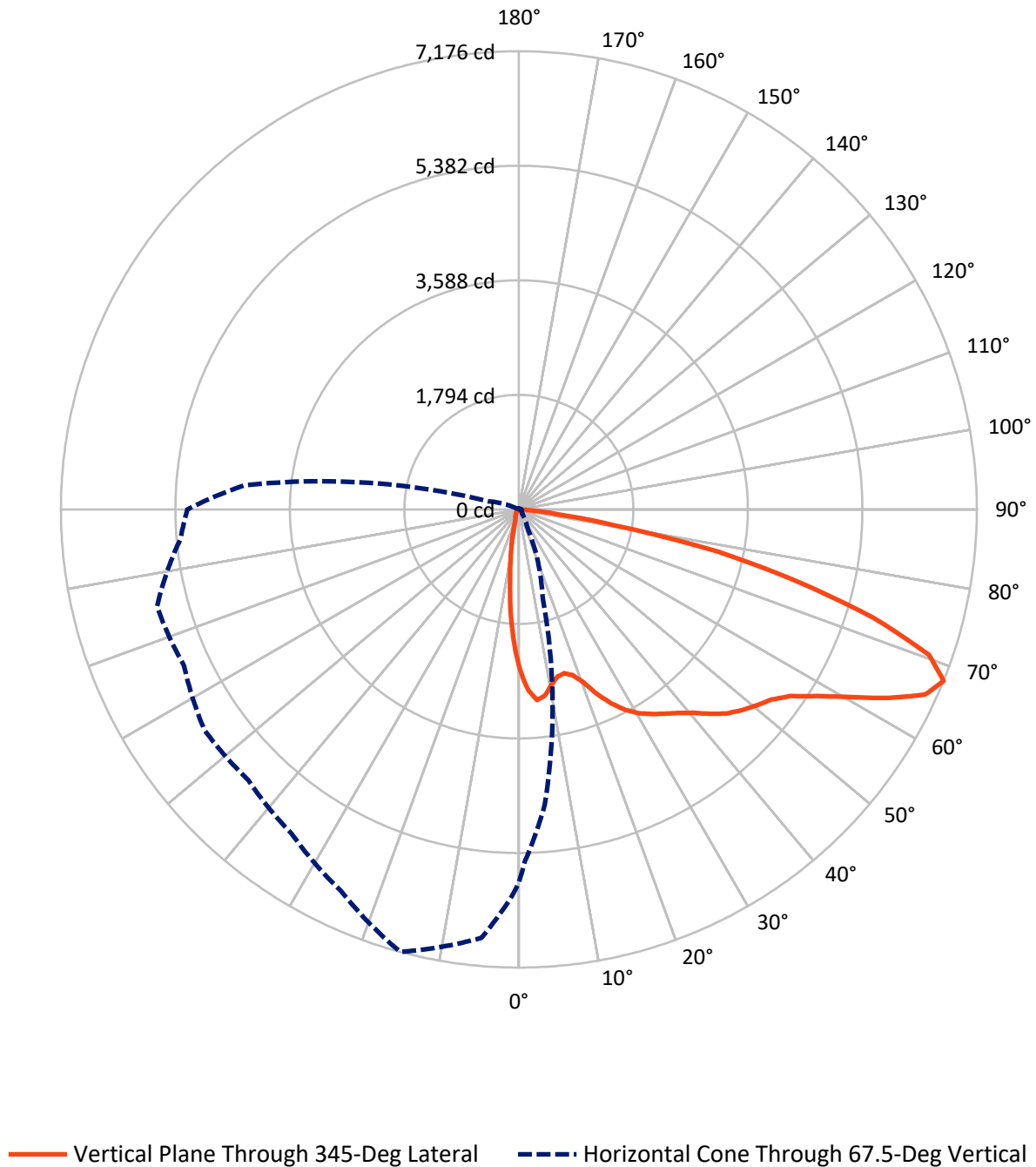
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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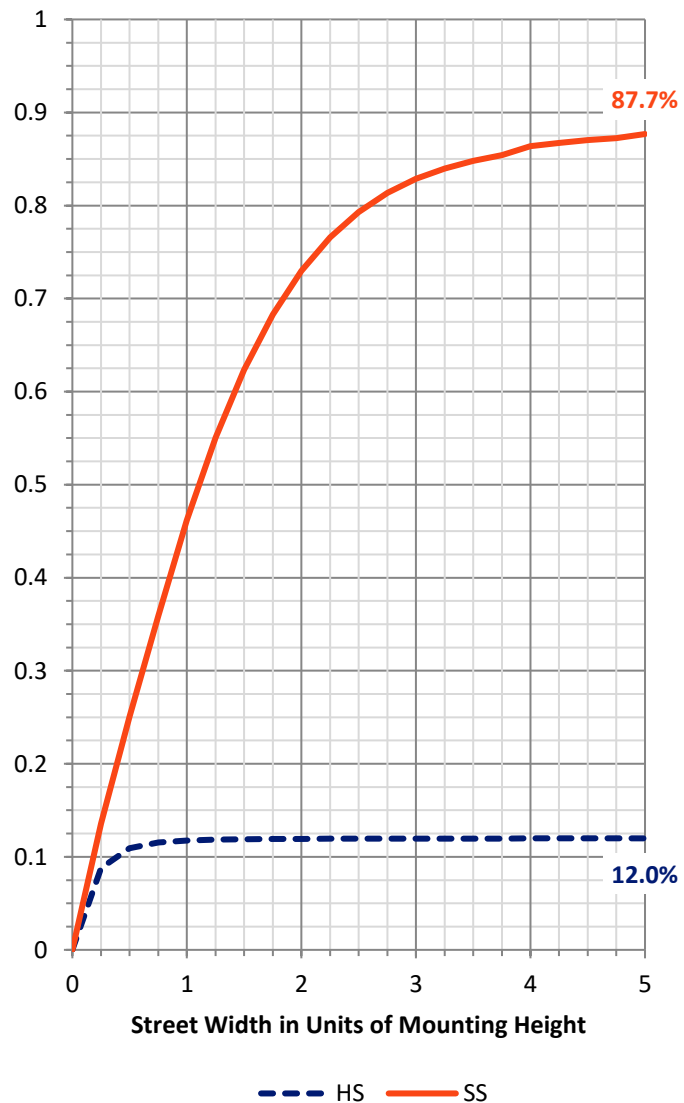
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	938.4	0.0	938.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	6814.6	0.0	6814.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	7753.0	0.0	7753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	2.5
10°-20°	385.8	5.0
20°-30°	547.9	7.1
30°-40°	809.2	10.4
40°-50°	1167.1	15.1
50°-60°	1638.3	21.1
60°-70°	1909.8	24.6
70°-80°	976.3	12.6
80°-90°	124.7	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°	7753.0	100.0
0°-180°	7753.0	100.0

Coefficient of Utilization



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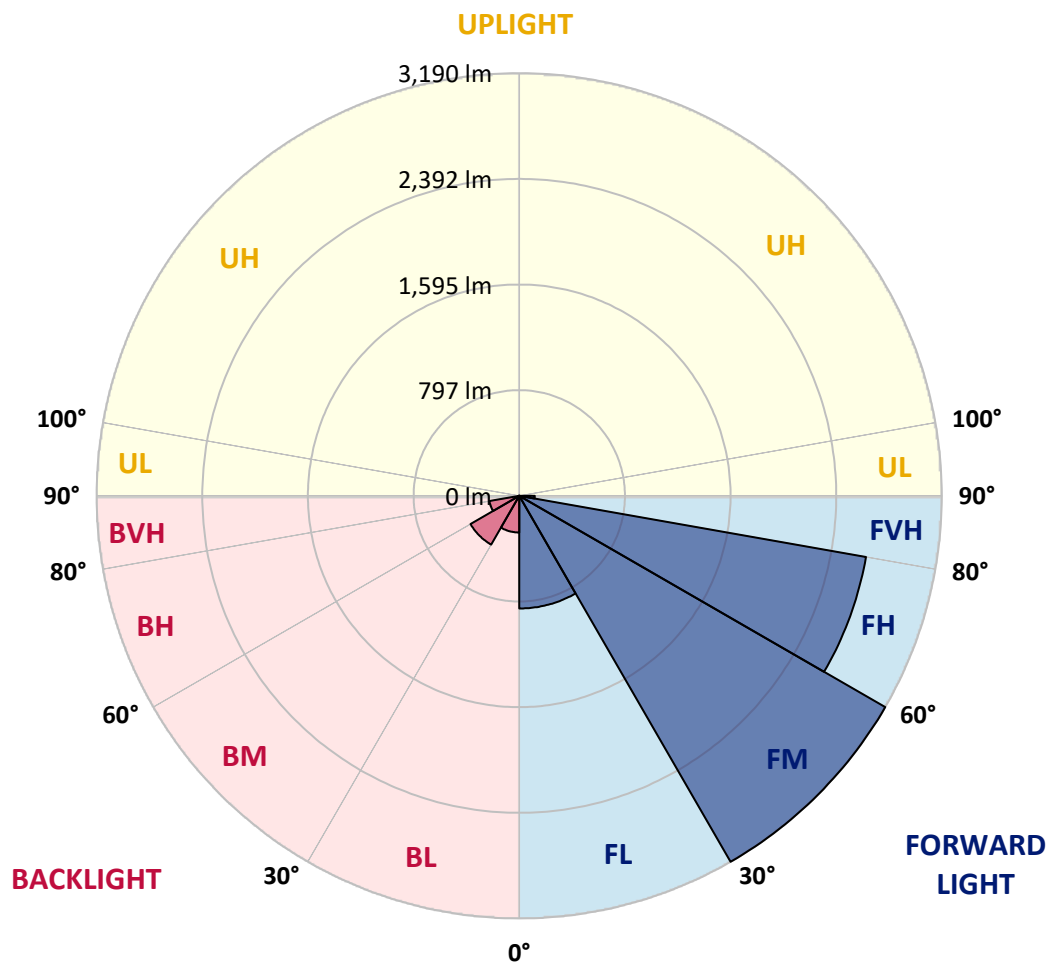
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	850.4	11.0			
FM	(30°-60°)	3189.7	41.1			
FH	(60°-80°)	2657.5	34.3			G2/5000
FVH	(80°-90°)	117.1	1.5			G2/225
BL	(0°-30°)	277.2	3.6	B1/500		
BM	(30°-60°)	424.9	5.5	B1/1000		
BH	(60°-80°)	228.7	2.9	B1/500		G1/500
BVH	(80°-90°)	7.6	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°	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5
2.5°	2765.4	2744.1	2720.6	2643.8	2572.5	2491.0	2424.5	2378.2	2320.2	2244.9	2225.8
5°	2745.5	2722.8	2648.9	2478.1	2328.7	2183.2	2042.9	1960.6	1858.5	1754.9	1729.2
7.5°	2546.1	2522.2	2415.7	2181.7	1980.5	1770.4	1588.2	1475.4	1360.1	1265.3	1215.0
10°	2338.6	2312.5	2192.8	1908.8	1660.9	1471.0	1337.3	1229.7	1120.6	1019.2	938.4
12.5°	2195.7	2161.5	2031.5	1709.8	1493.8	1364.9	1240.0	1111.1	963.4	854.7	765.8
15°	2135.8	2096.9	1959.5	1633.0	1434.7	1283.3	1120.6	962.3	789.3	664.8	583.3
17.5°	2182.1	2131.4	1984.1	1627.9	1360.5	1154.4	948.7	762.9	575.2	449.2	391.2
20°	2339.3	2272.8	2085.9	1626.4	1270.5	1001.2	740.5	530.4	379.0	304.9	274.4
22.5°	2586.9	2499.1	2232.1	1638.1	1177.6	840.4	534.8	360.3	284.7	246.1	228.1
25°	2885.8	2784.1	2442.5	1679.6	1096.0	683.9	388.6	284.7	240.2	211.9	196.9
27.5°	3170.1	3087.5	2708.4	1739.5	1032.8	557.6	315.5	241.3	205.3	186.6	174.5
30°	3454.0	3350.1	2981.3	1810.8	956.8	472.0	277.3	220.0	184.0	164.2	156.5
32.5°	3660.5	3574.2	3195.1	1862.2	875.6	416.1	247.9	201.3	171.9	151.7	140.3
35°	3903.3	3805.6	3378.4	1873.6	823.5	380.9	222.9	181.1	149.1	131.1	119.0
37.5°	4165.5	4043.9	3589.9	1848.6	782.7	363.6	204.2	171.9	139.2	120.8	108.0
40°	4455.7	4318.3	3793.1	1812.6	742.7	357.7	189.9	164.9	131.5	112.8	99.5
42.5°	4761.3	4599.3	3969.0	1774.8	717.3	337.5	188.4	157.9	125.6	105.4	92.2
45°	5018.0	4853.8	4149.7	1762.3	699.3	315.5	194.7	153.2	121.6	99.5	86.7
47.5°	5222.6	5067.2	4334.8	1790.2	689.0	295.3	177.4	159.4	119.4	94.4	81.9
50°	5466.8	5290.9	4595.6	1873.6	674.0	275.1	160.5	182.5	119.4	91.1	77.9
52.5°	5773.2	5599.1	4886.5	2002.9	643.9	247.2	144.3	182.9	120.5	86.7	72.7
55°	6158.4	6032.1	5301.9	2144.6	595.8	206.1	124.9	157.2	116.1	78.6	67.9
57.5°	6527.9	6424.7	5680.6	2241.6	531.5	160.9	108.7	126.7	106.1	69.1	60.6
59°	6629.0	6516.2	5819.4	2246.0	483.4	140.3	100.6	104.7	103.9	64.6	56.2
60°	6629.0	6509.2	5859.5	2222.5	448.5	128.9	95.5	93.3	108.4	61.7	53.6
62.5°	6508.8	6340.6	5729.4	2063.5	365.8	109.8	83.4	77.1	97.3	55.5	47.4
65°	6259.1	6014.1	5286.5	1775.9	326.2	100.6	72.0	63.2	67.6	48.9	41.5
67.5°	5842.6	5510.5	4647.8	1434.7	310.4	98.1	62.1	53.6	51.1	41.9	36.4
70°	5109.1	4740.7	3872.4	1128.0	296.8	97.0	52.2	45.2	41.1	35.3	30.9
72.5°	3718.5	3334.3	2749.2	881.9	288.7	99.2	41.9	37.8	33.8	27.5	23.9
75°	2127.0	1875.4	1545.2	582.5	246.1	94.8	32.3	31.6	24.2	19.8	16.5
77.5°	1098.9	1065.5	926.0	223.7	117.9	41.5	21.3	18.4	14.3	12.1	9.9
80°	474.2	469.0	405.9	64.6	31.2	23.1	12.1	7.7	6.6	5.1	4.0
82.5°	163.8	163.8	144.3	21.7	14.0	11.4	1.5	0.0	0.0	0.0	0.0
85°	33.1	37.1	26.1	0.0	4.8	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°	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5
2.5°	2202.7	2158.2	2155.3	2127.4	2092.5	2076.7	2067.5	2083.7	2103.5	2105.7	2135.5
5°	1709.8	1663.1	1682.6	1633.0	1642.9	1633.0	1616.8	1619.8	1628.6	1601.0	1635.2
7.5°	1200.7	1165.4	1187.8	1174.6	1192.2	1199.2	1189.3	1174.6	1131.3	1126.1	1155.9
10°	905.0	865.0	841.1	816.1	821.6	833.0	829.4	818.7	791.2	792.6	821.3
12.5°	727.2	682.4	635.1	573.7	558.7	567.1	558.7	552.4	526.0	528.2	553.5
15°	551.7	514.9	465.4	416.1	389.3	391.9	368.4	351.9	335.3	315.5	330.9
17.5°	372.4	350.0	335.3	320.6	288.7	281.3	251.6	219.6	207.2	198.0	204.6
20°	263.7	251.6	245.7	245.0	226.6	217.4	188.4	168.6	162.3	160.5	164.5
22.5°	220.4	211.6	203.1	198.3	189.2	178.5	156.5	146.6	142.1	139.9	142.9
25°	191.7	185.1	176.3	168.2	164.5	153.2	137.4	130.0	127.1	124.9	126.3
27.5°	170.4	164.5	154.3	149.1	146.2	136.3	122.7	116.8	114.2	113.5	113.1
30°	153.5	148.0	138.5	132.6	127.5	118.6	110.6	104.7	102.1	101.4	100.6
32.5°	136.6	132.2	126.0	120.1	114.6	106.5	99.5	94.8	90.7	90.0	89.6
35°	115.3	110.9	107.6	107.3	102.1	94.4	89.3	83.0	79.7	78.6	79.0
37.5°	102.5	96.6	89.3	91.8	90.4	84.8	77.9	71.6	68.3	67.6	67.6
40°	94.4	88.2	79.7	75.3	79.7	78.6	67.6	61.3	58.0	57.7	56.9
42.5°	86.7	80.4	70.9	63.5	65.7	69.1	58.4	52.5	49.2	48.5	47.4
45°	81.2	74.6	63.9	55.5	51.1	58.0	50.0	42.6	40.8	39.3	38.6
47.5°	76.0	69.8	57.7	48.1	40.8	41.9	40.0	34.9	32.7	31.2	30.9
50°	71.6	65.0	52.2	41.1	33.8	30.9	32.3	27.5	25.7	24.2	23.5
52.5°	66.5	60.2	46.3	35.6	28.3	24.2	24.6	21.7	19.8	18.7	18.4
55°	62.4	56.2	41.5	31.2	25.0	19.8	17.6	16.9	15.8	15.1	14.7
57.5°	56.9	51.1	36.7	26.4	21.3	16.2	13.6	13.6	13.2	12.5	12.1
59°	53.6	48.5	33.8	23.9	19.5	14.0	12.1	12.5	12.1	11.4	11.0
60°	51.1	46.3	31.6	22.0	18.4	12.9	11.0	11.8	11.4	10.7	10.3
62.5°	45.2	41.9	27.2	18.4	16.2	10.3	9.2	9.9	9.9	9.5	9.2
65°	39.7	36.0	23.1	15.4	15.1	8.8	7.3	8.8	9.2	8.4	7.7
67.5°	34.5	30.9	20.2	12.5	14.0	7.0	5.5	7.3	9.9	7.7	7.0
70°	29.4	25.7	15.8	9.9	14.7	4.8	4.4	6.6	11.8	8.4	6.6
72.5°	22.8	19.8	11.0	7.3	15.8	3.3	3.3	5.5	13.2	9.2	6.2
75°	15.8	12.9	6.6	4.4	12.9	2.2	2.2	5.1	12.5	8.4	5.9
77.5°	9.2	7.0	2.2	0.4	6.6	0.0	0.4	3.7	8.8	5.1	2.6
80°	3.3	1.5	0.0	0.0	4.0	0.0	0.0	0.0	0.7	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°	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5
2.5°	2143.2	2192.8	2237.2	2304.4	2384.1	2475.9	2554.9	2639.8	2719.5	2752.5	2775.3
5°	1642.2	1703.5	1775.1	1873.9	2005.4	2167.4	2319.1	2490.6	2675.0	2767.2	2853.9
7.5°	1161.0	1223.5	1312.3	1417.4	1576.4	1769.3	1967.6	2204.5	2454.3	2600.1	2743.7
10°	834.9	911.6	994.6	1138.2	1299.9	1482.8	1687.0	1951.4	2229.9	2391.5	2564.5
12.5°	568.2	655.6	781.2	942.1	1132.0	1311.2	1488.6	1741.0	2064.2	2224.3	2409.8
15°	340.9	389.3	522.3	708.5	941.4	1164.7	1359.0	1612.1	1956.6	2152.7	2345.6
17.5°	210.1	232.5	304.9	457.7	702.3	984.7	1251.0	1568.4	1972.0	2210.8	2417.2
20°	167.5	176.3	199.4	270.3	465.4	786.4	1129.4	1559.5	2098.0	2391.8	2613.3
22.5°	145.4	153.9	169.3	196.5	292.7	588.8	1014.1	1567.6	2278.7	2663.3	2921.8
25°	128.2	135.5	150.2	172.6	214.5	414.7	890.7	1603.6	2514.1	3000.1	3274.8
27.5°	114.6	120.8	134.4	155.0	184.0	289.4	750.8	1647.3	2793.3	3344.6	3615.7
30°	102.1	107.6	119.7	138.8	159.8	222.6	597.2	1677.1	3072.8	3615.7	3859.2
32.5°	91.5	95.5	106.5	122.7	138.8	177.4	454.0	1672.3	3280.3	3841.2	4034.4
35°	80.4	84.5	94.0	108.0	120.8	146.6	357.0	1583.0	3461.0	4075.1	4234.9
37.5°	68.3	73.5	82.6	95.1	103.9	128.9	288.7	1475.4	3644.3	4342.5	4458.6
40°	58.0	63.2	71.3	84.8	90.4	122.3	221.8	1344.3	3850.4	4641.5	4704.0
42.5°	48.1	52.9	61.3	73.1	85.2	105.4	164.2	1194.4	4048.3	4897.2	4927.6
45°	38.9	43.7	52.5	64.3	91.1	87.4	127.1	1033.9	4208.1	5109.8	5119.7
47.5°	30.9	35.3	44.4	60.6	84.8	69.8	90.7	908.0	4342.2	5275.8	5249.8
50°	23.9	27.5	37.1	69.4	74.2	57.7	68.7	866.1	4462.3	5378.7	5311.1
52.5°	18.7	22.0	30.5	65.0	57.7	47.7	57.7	905.4	4626.8	5463.9	5345.6
55°	15.1	18.4	23.9	37.1	39.3	40.4	49.2	942.1	4910.7	5663.7	5549.5
57.5°	12.5	15.8	19.5	26.1	29.8	34.2	43.7	946.2	5245.4	5995.7	5887.8
59°	11.4	14.3	17.6	23.1	26.1	31.2	41.1	924.1	5363.3	6116.6	6062.6
60°	10.7	13.6	16.5	21.3	24.2	29.4	39.7	903.2	5368.4	6112.2	6137.1
62.5°	9.2	12.1	14.7	18.0	20.6	25.0	35.6	825.7	5151.0	5912.0	6092.3
65°	8.1	10.7	13.2	15.4	17.6	22.4	32.3	684.3	4779.6	5589.1	5785.6
67.5°	7.3	9.2	12.1	13.6	15.8	19.8	28.6	487.8	4315.7	5194.3	5321.7
70°	6.6	8.8	11.0	12.5	14.3	17.3	24.6	280.2	3644.3	4616.2	4706.9
72.5°	6.2	8.4	9.9	11.8	12.9	15.4	22.4	131.9	2668.4	3697.9	3934.8
75°	5.5	7.7	9.2	11.0	12.1	14.0	19.1	63.2	1774.8	2676.1	2945.3
77.5°	3.3	6.2	8.4	9.9	10.7	12.1	15.8	36.4	1132.7	1852.3	2181.7
80°	0.0	2.2	6.2	8.4	9.2	10.3	12.1	28.6	606.0	1058.2	1270.1
82.5°	0.0	0.0	4.4	6.6	6.2	7.0	9.2	18.0	273.3	691.6	779.4
85°	0.0	0.0	1.5	5.1	4.4	3.3	6.2	6.2	59.9	350.0	436.7
87.5°	0.0	0.0	0.0	0.4	2.2	1.5	2.6	0.7	0.4	26.1	105.8
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°	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5	2525.5
2.5°	2855.0	2882.2	2928.1	2949.8	2939.1	2893.9	2839.9	2784.8	2752.5	2765.4
5°	3030.6	3170.5	3251.3	3278.1	3233.3	3131.9	2999.3	2824.5	2762.4	2745.5
7.5°	3030.6	3293.9	3460.7	3490.0	3390.1	3191.4	2942.8	2669.9	2579.2	2546.1
10°	2924.0	3282.5	3515.0	3561.7	3422.1	3125.0	2791.8	2480.3	2372.7	2338.6
12.5°	2803.9	3190.0	3434.9	3499.2	3384.6	3058.8	2687.1	2352.2	2225.4	2195.7
15°	2730.1	3076.1	3278.8	3325.5	3277.0	3020.3	2662.2	2313.6	2164.5	2135.8
17.5°	2756.6	2988.0	3061.0	3088.2	3120.9	3006.7	2730.1	2398.1	2209.3	2182.1
20°	2856.1	2895.0	2857.2	2891.4	2979.5	3019.9	2892.1	2602.3	2375.7	2339.3
22.5°	3025.0	2846.9	2740.8	2754.4	2861.6	3063.6	3139.6	2893.9	2632.4	2586.9
25°	3221.9	2885.8	2676.1	2664.0	2774.2	3121.3	3365.9	3211.3	2936.2	2885.8
27.5°	3469.5	2973.3	2662.9	2650.8	2743.7	3175.3	3554.0	3524.9	3256.1	3170.1
30°	3660.5	3059.2	2702.2	2674.3	2774.2	3212.7	3704.9	3791.2	3511.0	3454.0
32.5°	3797.5	3160.6	2766.1	2725.7	2860.1	3277.4	3821.3	4035.1	3746.8	3660.5
35°	3901.8	3270.8	2869.3	2802.8	2978.4	3375.4	3930.4	4294.8	3997.6	3903.3
37.5°	3999.5	3425.4	3030.6	2951.2	3163.9	3533.4	4045.8	4589.4	4278.3	4165.5
40°	4135.7	3600.6	3279.2	3208.7	3475.7	3748.6	4189.7	4896.4	4597.4	4455.7
42.5°	4272.0	3788.7	3533.8	3552.9	3864.7	4010.1	4375.6	5221.1	4912.6	4761.3
45°	4396.5	3982.6	3896.3	3984.4	4225.7	4297.0	4560.3	5408.8	5164.2	5018.0
47.5°	4507.5	4225.0	4256.6	4491.3	4636.4	4556.7	4698.4	5570.8	5351.5	5222.6
50°	4636.4	4538.7	4731.5	5063.5	5109.1	4791.7	4824.1	5762.5	5570.4	5466.8
52.5°	4777.4	4869.2	5257.5	5550.2	5535.5	5047.0	4950.4	5977.4	5870.5	5773.2
55°	4937.6	5136.3	5720.6	6005.7	5993.2	5332.0	5159.8	6242.9	6246.6	6158.4
57.5°	5175.2	5366.2	6035.0	6374.0	6395.0	5661.1	5514.6	6540.4	6586.7	6527.9
59°	5345.6	5515.3	6159.5	6527.9	6613.2	5915.7	5773.9	6713.1	6682.6	6629.0
60°	5472.0	5610.1	6221.3	6608.4	6739.9	6088.3	5965.2	6814.4	6694.0	6629.0
62.5°	5784.5	5816.5	6332.5	6699.5	6885.7	6471.8	6503.7	6987.1	6615.0	6508.8
65°	5930.4	5946.9	6331.1	6536.4	6744.7	6770.4	6992.2	6992.2	6422.2	6259.1
67.5°	5869.4	5789.7	6017.0	5995.7	6203.6	6593.0	7175.9	6735.8	6053.4	5842.6
70°	5373.5	5066.8	4965.8	4975.0	5134.1	5734.6	6812.2	5981.4	5355.5	5109.1
72.5°	4471.1	3735.4	3486.0	3770.7	3812.2	4407.2	5805.5	4504.5	3949.5	3718.5
75°	3596.2	2633.1	2227.6	2528.1	2598.6	3225.2	4490.9	2805.4	2307.0	2127.0
77.5°	2583.6	1890.1	1598.5	1577.5	1668.6	2045.5	3186.7	1411.9	1177.6	1098.9
80°	1467.7	1244.0	1339.5	1263.9	1309.8	1278.9	1514.0	619.3	507.2	474.2
82.5°	885.9	735.3	796.3	663.0	838.9	730.6	583.3	198.3	172.3	163.8
85°	576.3	401.8	209.4	140.3	289.1	466.8	130.4	54.0	41.5	33.1
87.5°	198.7	102.5	10.3	4.4	30.9	87.0	4.8	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

(END OF REPORT)