

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: P386558

Luminaire Tested: GAW-SA2B-727-U-SLL-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-727-U-SLL-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7395 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

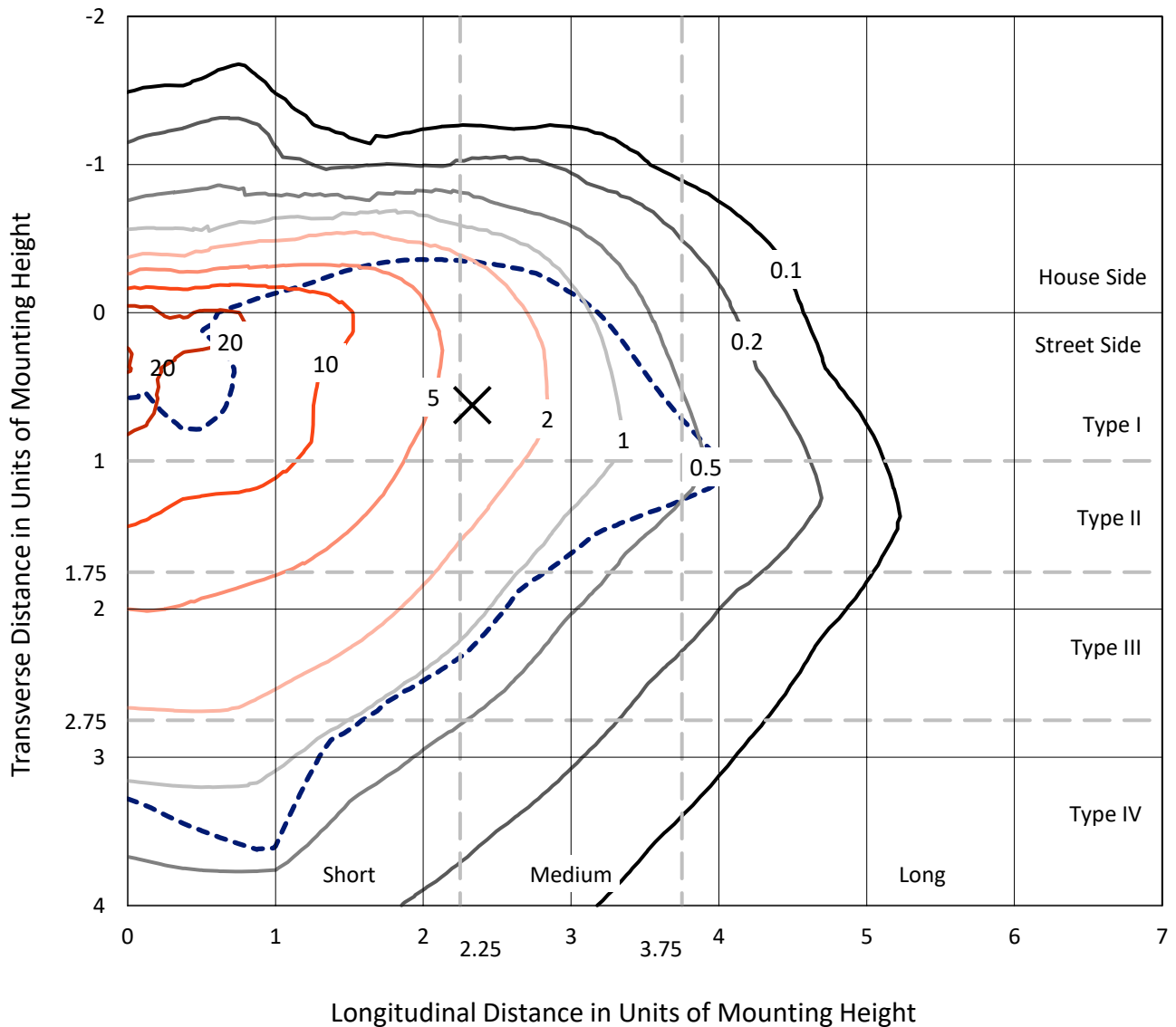
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

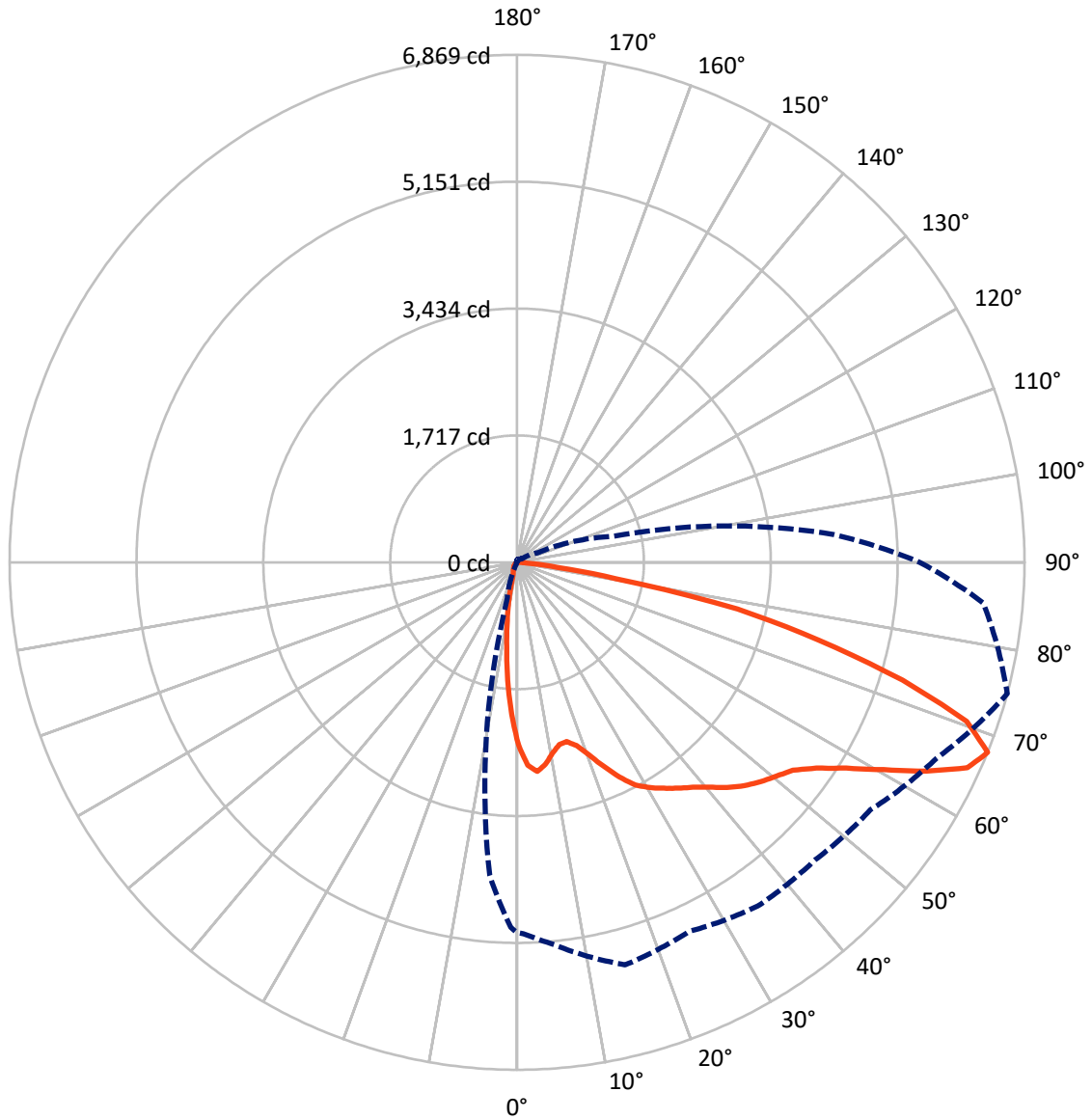
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 32.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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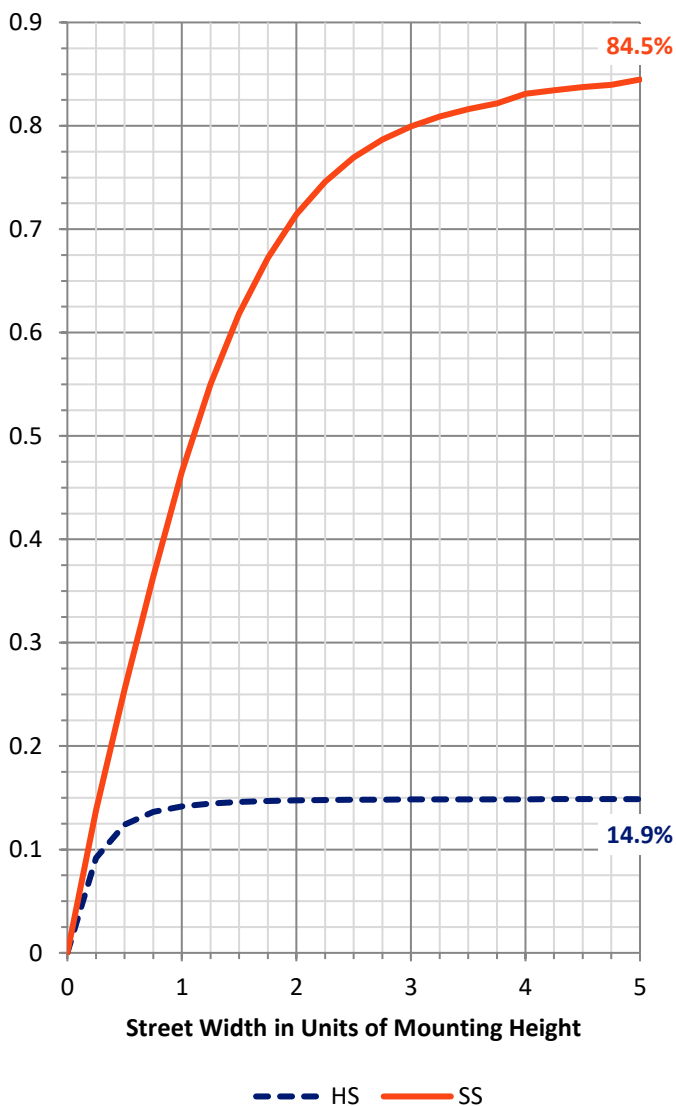
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1109.7	0.0	1109.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	6285.3	0.0	6285.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	7395.0	0.0	7395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	2.5
10°-20°	370.5	5.0
20°-30°	524.2	7.1
30°-40°	770.7	10.4
40°-50°	1107.8	15.0
50°-60°	1559.5	21.1
60°-70°	1821.4	24.6
70°-80°	929.2	12.6
80°-90°	123.4	1.7
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°	7395.0	100.0
0°-180°	7395.0	100.0

Coefficient of Utilization

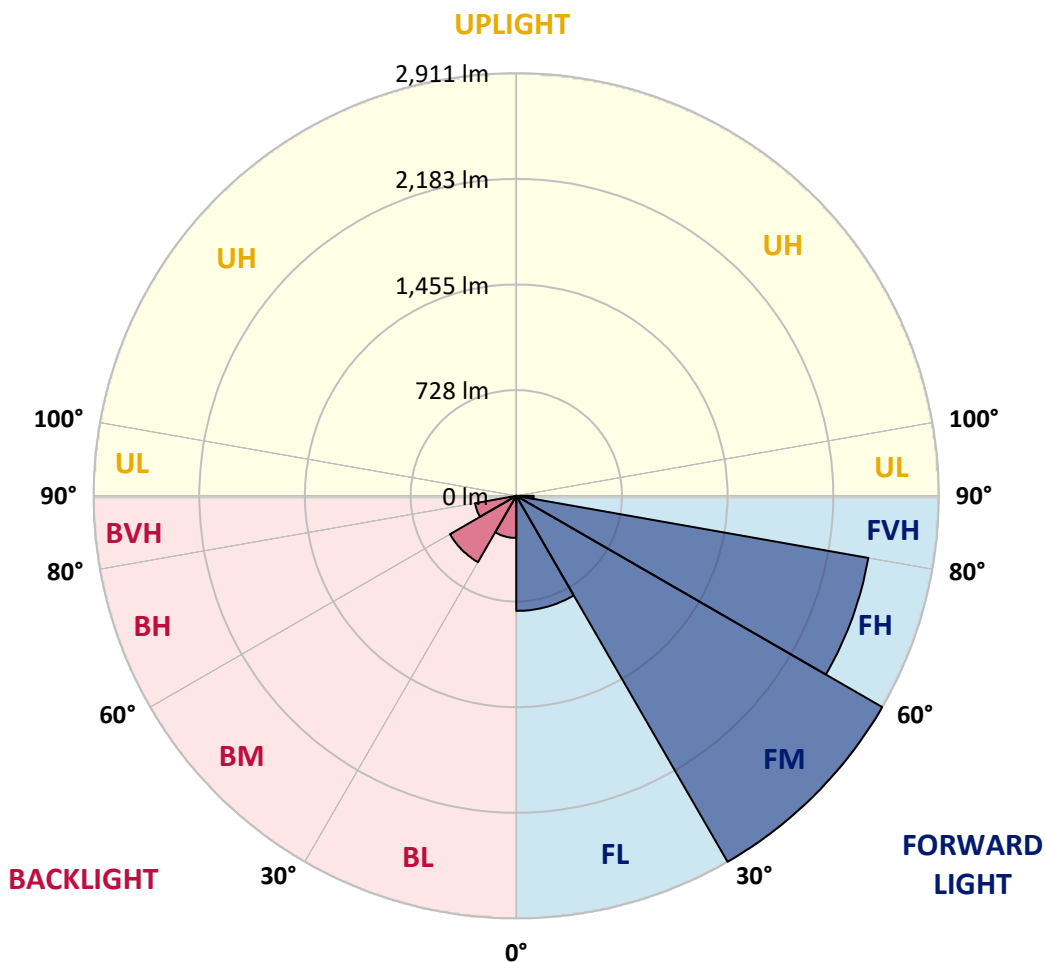


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	792.7	10.7			
FM (30°-60°)	2910.5	39.4			
FH (60°-80°)	2462.3	33.3			G2/5000
FVH (80°-90°)	119.7	1.6			G2/225
BL (0°-30°)	290.2	3.9	B1/500		
BM (30°-60°)	527.5	7.1	B1/1000		
BH (60°-80°)	288.2	3.9	B1/500		G1/500
BVH (80°-90°)	3.7	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9
2.5°	2689.3	2693.5	2715.3	2765.7	2820.7	2824.9	2862.0	2823.8	2810.9	2749.2	2685.5
5°	2709.6	2725.8	2800.4	2948.6	3077.1	3118.5	3147.9	3072.9	2994.1	2843.5	2682.7
7.5°	2546.1	2573.0	2690.4	2968.5	3198.3	3299.9	3319.2	3201.8	3008.8	2760.8	2519.1
10°	2336.6	2367.4	2508.9	2850.8	3166.5	3340.6	3367.2	3213.4	2935.9	2627.0	2342.2
12.5°	2167.0	2203.1	2347.8	2718.4	3056.8	3249.5	3302.0	3174.5	2872.9	2532.0	2221.3
15°	2088.9	2130.2	2282.3	2632.9	2935.2	3086.9	3130.4	3075.4	2837.9	2517.0	2193.3
17.5°	2133.7	2178.6	2335.5	2640.3	2821.0	2885.9	2920.9	2943.3	2837.9	2607.7	2275.3
20°	2317.7	2366.0	2532.0	2714.9	2726.5	2702.3	2739.8	2818.6	2870.8	2780.1	2472.1
22.5°	2572.0	2628.7	2816.1	2842.8	2680.2	2588.8	2593.7	2717.4	2930.7	2998.7	2745.4
25°	2882.0	2951.4	3141.9	3033.3	2699.5	2521.2	2519.4	2634.0	2989.2	3217.6	3049.8
27.5°	3189.9	3266.3	3433.7	3265.9	2779.0	2508.9	2505.4	2608.8	3046.3	3412.4	3382.2
30°	3448.1	3522.4	3666.7	3434.4	2864.8	2537.6	2520.8	2635.7	3080.3	3538.8	3624.7
32.5°	3658.3	3717.8	3834.5	3550.4	2956.6	2593.3	2556.9	2707.9	3138.1	3645.7	3847.5
35°	3889.5	3952.2	3998.8	3660.7	3059.6	2673.6	2621.4	2822.4	3227.1	3754.3	4091.6
37.5°	4153.3	4215.6	4210.0	3761.6	3190.3	2806.3	2773.1	3003.9	3365.4	3861.8	4364.2
40°	4411.5	4475.2	4429.7	3872.0	3343.7	3025.3	3000.8	3276.5	3550.7	3999.5	4683.6
42.5°	4653.2	4722.2	4624.8	3976.4	3526.6	3301.3	3343.4	3627.5	3782.6	4169.0	4959.0
45°	4847.9	4918.4	4788.4	4078.0	3719.2	3636.2	3762.7	4016.3	4061.5	4312.3	5145.0
47.5°	4989.5	5056.0	4901.9	4179.5	3965.9	4045.7	4266.1	4424.1	4313.4	4436.7	5277.1
50°	5079.8	5131.7	4935.2	4306.7	4289.5	4523.6	4790.5	4867.6	4550.5	4548.8	5437.5
52.5°	5137.3	5160.8	4959.7	4439.5	4627.2	5043.8	5304.0	5328.2	4794.7	4672.1	5653.7
55°	5335.2	5354.1	5133.4	4600.3	4906.4	5499.5	5768.6	5746.1	5071.1	4913.4	5908.7
57.5°	5672.9	5692.9	5492.5	4831.5	5132.4	5781.2	6105.2	6145.5	5395.1	5252.5	6181.9
60°	5842.5	5879.6	5808.1	5124.3	5351.3	5961.2	6334.7	6463.2	5800.1	5699.5	6446.8
62.5°	5688.7	5742.6	5846.3	5449.1	5568.9	6060.4	6406.1	6577.1	6214.9	6220.5	6610.0
65°	5381.8	5424.9	5600.8	5627.0	5695.0	6048.1	6229.6	6418.0	6468.8	6699.0	6601.2
67.5°	5011.2	5027.3	5176.5	5641.0	5512.1	5679.6	5699.2	5838.6	6268.1	6868.5	6336.1
70°	4477.7	4486.4	4616.7	5172.0	4736.9	4773.7	4744.6	4773.0	5388.8	6455.5	5666.6
72.5°	3603.6	3625.7	3811.0	4295.2	3450.9	3344.8	3573.2	3560.6	4150.1	5454.0	4208.6
75°	2653.2	2691.4	2971.3	3459.7	2422.0	2190.8	2357.6	2402.1	2950.3	4218.8	2631.9
77.5°	1857.7	1886.1	2157.2	2543.3	1753.0	1566.6	1506.3	1559.2	1947.4	3051.9	1325.9
80°	1070.2	1080.7	1253.8	1468.5	1181.2	1351.5	1224.3	1260.8	1166.9	1357.8	570.3
82.5°	700.3	702.0	769.6	874.0	735.7	854.8	632.7	808.9	717.8	545.4	185.7
85°	378.3	380.4	446.3	620.4	416.5	235.4	138.4	284.1	443.8	125.1	50.8
87.5°	41.7	38.2	134.5	225.6	115.6	21.4	7.4	31.9	71.1	8.1	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°	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9
2.5°	2652.9	2623.8	2551.3	2474.6	2412.9	2355.1	2297.0	2225.9	2170.9	2159.7	2141.4
5°	2596.1	2504.0	2352.0	2199.2	2076.3	1921.1	1822.7	1745.9	1671.0	1666.4	1651.4
7.5°	2397.9	2276.7	2062.6	1851.4	1678.3	1530.5	1381.3	1281.4	1203.0	1175.3	1158.8
10°	2207.3	2071.0	1803.7	1562.7	1408.2	1277.6	1172.5	1068.1	973.5	908.4	878.9
12.5°	2074.2	1923.6	1628.9	1421.2	1310.5	1186.5	1058.3	928.0	819.0	740.6	692.6
15°	2022.7	1861.9	1570.4	1365.2	1228.5	1071.6	907.7	758.8	637.9	566.8	523.7
17.5°	2084.0	1896.9	1565.9	1296.8	1105.9	910.8	729.7	553.8	440.0	386.0	358.4
20°	2239.5	2008.3	1564.1	1213.1	960.2	720.2	494.3	364.3	295.3	265.2	252.2
22.5°	2459.5	2150.6	1578.1	1130.5	808.5	514.6	341.2	267.6	232.3	216.1	208.8
25°	2742.6	2350.2	1617.7	1055.5	665.9	383.9	265.9	224.2	199.3	186.7	181.5
27.5°	3044.2	2580.0	1679.4	990.3	550.0	306.2	227.7	192.0	174.1	165.3	160.4
30°	3292.9	2846.3	1741.7	917.8	465.9	266.9	208.4	175.2	154.5	148.9	144.3
32.5°	3510.5	3047.7	1785.9	852.3	410.9	237.2	188.5	156.6	142.6	131.7	126.8
35°	3735.7	3215.5	1784.5	806.4	373.1	214.7	171.7	140.1	123.3	110.7	106.8
37.5°	3979.5	3405.0	1754.0	767.2	356.6	196.9	162.2	131.4	114.6	101.9	97.0
40°	4265.0	3604.0	1722.8	730.4	352.1	182.5	155.5	124.4	106.5	94.2	89.3
42.5°	4543.2	3783.3	1695.5	703.1	332.4	182.2	149.6	119.1	100.2	88.3	82.7
45°	4765.6	3950.4	1690.2	686.6	311.8	188.5	146.4	115.6	95.3	83.4	78.1
47.5°	4950.6	4131.9	1723.9	675.0	292.2	172.0	154.1	113.2	90.7	79.2	73.2
50°	5170.6	4354.7	1803.0	656.1	271.5	154.8	176.6	113.9	86.9	75.0	68.7
52.5°	5477.4	4663.0	1919.3	624.3	243.1	139.1	173.8	114.6	82.7	70.4	64.1
55°	5821.5	5048.0	2044.4	571.4	203.5	118.4	148.9	109.6	74.6	65.5	59.6
57.5°	6183.0	5397.2	2118.7	508.3	161.8	102.3	119.1	99.8	65.9	58.9	55.0
60°	6239.7	5530.0	2084.7	430.9	128.6	89.0	88.3	101.6	58.9	51.8	49.0
62.5°	6098.5	5363.2	1920.4	361.9	107.5	78.1	72.5	88.6	53.2	46.2	43.4
65°	5827.1	4912.4	1654.2	326.1	99.8	66.9	60.3	62.4	46.6	40.3	37.8
67.5°	5449.4	4310.6	1358.2	305.8	98.8	57.5	51.5	47.3	40.3	35.0	32.9
70°	4677.3	3591.0	1083.5	294.6	96.0	48.3	43.4	38.5	33.6	29.8	28.0
72.5°	3442.5	2544.7	842.8	282.3	96.7	38.5	37.8	31.9	27.0	23.1	22.4
75°	1989.1	1453.8	552.8	228.8	92.1	29.8	31.5	22.4	18.9	16.1	16.1
77.5°	1060.0	886.6	210.5	95.3	33.6	18.9	17.9	13.3	11.9	9.8	9.5
80°	462.1	390.2	63.4	26.6	18.6	10.2	6.7	6.0	5.3	4.2	3.9
82.5°	163.6	141.2	20.7	13.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.1	26.6	0.0	3.2	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°	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9
2.5°	2104.3	2096.6	2051.1	2052.8	2060.9	2072.4	2045.1	2057.7	2091.7	2124.3	2136.5
5°	1627.2	1628.9	1601.3	1618.4	1633.8	1644.4	1600.2	1600.9	1627.9	1664.7	1683.9
7.5°	1146.6	1143.8	1145.2	1186.1	1215.2	1194.2	1210.7	1153.6	1157.1	1183.3	1163.7
10°	852.3	813.8	792.1	822.9	854.8	843.2	814.8	796.3	809.2	838.3	836.2
12.5°	669.8	614.4	581.9	559.8	586.1	564.3	563.6	547.5	530.0	533.2	579.8
15°	503.7	463.5	424.9	389.5	388.8	381.5	344.0	302.0	298.5	300.6	324.7
17.5°	346.5	332.8	317.0	286.6	278.5	247.7	211.2	194.4	186.0	189.9	197.9
20°	243.5	238.2	240.0	223.5	211.9	182.5	161.1	154.5	153.1	156.9	160.8
22.5°	201.8	192.3	191.3	183.9	172.4	151.0	139.4	135.6	133.8	137.3	140.1
25°	176.6	167.1	163.2	158.7	146.4	131.7	124.7	121.2	119.5	121.6	123.3
27.5°	155.5	146.8	143.3	140.1	128.2	117.7	112.1	108.9	107.5	108.2	110.0
30°	139.8	132.1	127.5	123.7	113.5	106.1	101.2	98.1	96.7	96.7	98.4
32.5°	123.3	119.1	114.9	110.0	100.5	95.6	90.7	87.2	85.8	86.2	87.6
35°	102.6	101.2	102.3	97.7	89.7	85.5	80.6	76.7	75.7	76.0	77.4
37.5°	91.1	84.8	88.6	86.2	81.6	76.0	69.7	66.2	64.5	65.5	66.2
40°	83.7	76.0	73.2	75.7	75.0	65.9	60.3	56.8	55.3	55.7	56.4
42.5°	77.4	68.3	62.0	61.7	65.9	57.5	51.5	48.3	46.6	46.6	47.3
45°	71.5	61.7	53.9	48.0	55.3	48.7	43.1	40.3	38.2	38.2	38.5
47.5°	66.9	56.0	46.9	39.2	41.7	39.9	35.4	32.6	30.5	30.5	30.8
50°	62.7	50.4	40.6	32.9	31.2	32.9	28.7	25.6	24.2	23.8	24.5
52.5°	58.2	44.8	34.7	28.0	24.5	24.9	22.4	20.3	18.6	18.6	19.3
55°	53.6	40.3	30.1	23.8	20.3	18.6	17.9	16.5	15.1	15.1	15.8
57.5°	49.0	35.4	25.6	19.6	16.1	14.7	14.7	13.7	12.6	12.6	13.3
60°	44.8	30.5	21.0	16.1	12.6	12.3	12.6	11.6	10.9	10.9	11.6
62.5°	39.9	25.9	17.2	13.3	10.2	9.8	10.9	10.2	9.5	9.5	10.2
65°	34.0	22.1	13.7	10.2	7.7	7.7	9.1	8.4	7.7	7.7	8.4
67.5°	28.7	18.6	10.5	7.4	5.6	6.0	7.7	7.0	6.7	6.7	7.4
70°	23.8	14.4	7.4	4.6	3.2	4.6	6.0	6.0	6.0	6.0	6.7
72.5°	17.9	9.8	4.2	1.8	1.4	3.2	4.9	5.6	5.3	5.3	6.3
75°	11.6	5.6	1.4	0.0	0.0	1.8	3.9	4.6	4.6	4.2	5.3
77.5°	6.7	1.8	0.0	0.0	0.0	0.0	2.5	2.1	1.8	1.4	2.5
80°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9	2480.9
2.5°	2185.9	2227.3	2285.4	2347.1	2442.0	2517.3	2591.2	2654.6	2679.2	2689.3
5°	1730.2	1790.8	1875.9	1985.2	2156.5	2310.6	2466.9	2624.2	2692.5	2709.6
7.5°	1241.5	1318.9	1427.2	1564.1	1764.9	1964.5	2182.8	2413.6	2519.4	2546.1
10°	918.9	1013.4	1137.5	1281.8	1473.4	1678.7	1916.5	2180.3	2301.2	2336.6
12.5°	651.9	779.8	945.8	1121.3	1287.4	1470.6	1711.3	2002.0	2128.8	2167.0
15°	382.9	506.5	703.1	938.1	1150.8	1336.4	1580.9	1910.6	2050.4	2088.9
17.5°	219.6	281.3	429.8	691.9	980.5	1237.6	1540.0	1933.4	2098.0	2133.7
20°	167.8	187.4	247.7	445.6	781.5	1140.6	1540.0	2062.3	2265.1	2317.7
22.5°	146.8	161.1	185.7	265.9	575.2	1036.6	1557.8	2248.6	2513.8	2572.0
25°	130.3	143.3	164.3	200.0	392.3	912.9	1600.2	2477.4	2806.7	2882.0
27.5°	116.7	128.9	147.8	175.2	268.3	763.7	1657.3	2745.7	3129.7	3189.9
30°	104.4	116.0	133.1	152.4	207.0	594.5	1706.0	2998.7	3383.3	3448.1
32.5°	92.8	103.3	118.8	133.1	169.6	439.6	1711.3	3199.0	3593.8	3658.3
35°	82.0	91.4	105.4	116.7	140.5	347.2	1629.6	3372.8	3804.4	3889.5
37.5°	71.5	80.6	92.8	101.2	123.7	283.1	1504.9	3566.5	4074.5	4153.3
40°	61.7	69.7	82.3	87.9	117.0	217.5	1369.4	3769.7	4339.3	4411.5
42.5°	52.5	60.3	72.5	83.4	102.6	162.5	1222.9	3960.3	4577.5	4653.2
45°	43.8	51.8	64.1	88.3	85.1	121.6	1066.3	4086.7	4765.6	4847.9
47.5°	35.4	44.5	61.3	84.1	68.0	89.3	942.3	4206.5	4908.2	4989.5
50°	28.4	37.5	69.0	75.0	55.7	68.3	890.5	4313.7	5001.7	5079.8
52.5°	23.1	31.5	65.2	57.5	46.6	56.4	918.5	4487.5	5088.3	5137.3
55°	19.3	24.9	39.2	39.9	39.6	48.0	953.2	4736.9	5312.1	5335.2
57.5°	16.8	20.0	27.3	30.8	33.3	42.7	953.9	5094.9	5658.6	5672.9
60°	14.4	17.5	22.8	24.9	28.7	38.2	919.2	5220.0	5794.8	5842.5
62.5°	12.6	15.4	18.9	20.7	24.2	34.3	837.9	5038.9	5607.8	5688.7
65°	11.2	14.0	15.8	17.5	21.4	30.8	704.1	4676.6	5297.4	5381.8
67.5°	9.8	12.3	14.0	15.8	19.3	27.3	518.5	4255.9	4941.1	5011.2
70°	8.8	10.9	12.6	14.0	16.8	23.1	314.6	3611.3	4448.6	4477.7
72.5°	8.4	9.8	11.6	12.6	14.7	20.3	159.4	2653.9	3556.3	3603.6
75°	7.4	8.8	10.5	11.2	13.0	17.5	64.8	1743.1	2577.2	2653.2
77.5°	6.0	8.1	9.5	10.2	11.2	14.4	32.9	1114.0	1808.7	1857.7
80°	2.1	6.0	8.1	8.4	9.5	10.5	21.7	609.9	1049.2	1070.2
82.5°	0.0	3.9	6.3	6.0	6.7	8.1	14.0	290.1	692.6	700.3
85°	0.0	1.8	4.9	3.9	2.8	5.6	4.9	63.4	363.3	378.3
87.5°	0.0	0.0	0.4	1.8	1.4	2.1	0.7	0.4	32.9	41.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)