

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: P387006

Luminaire Tested: GAW-SA2D-727-U-SLL-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387006
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-SA2D-727-U-SLL-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 10039 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

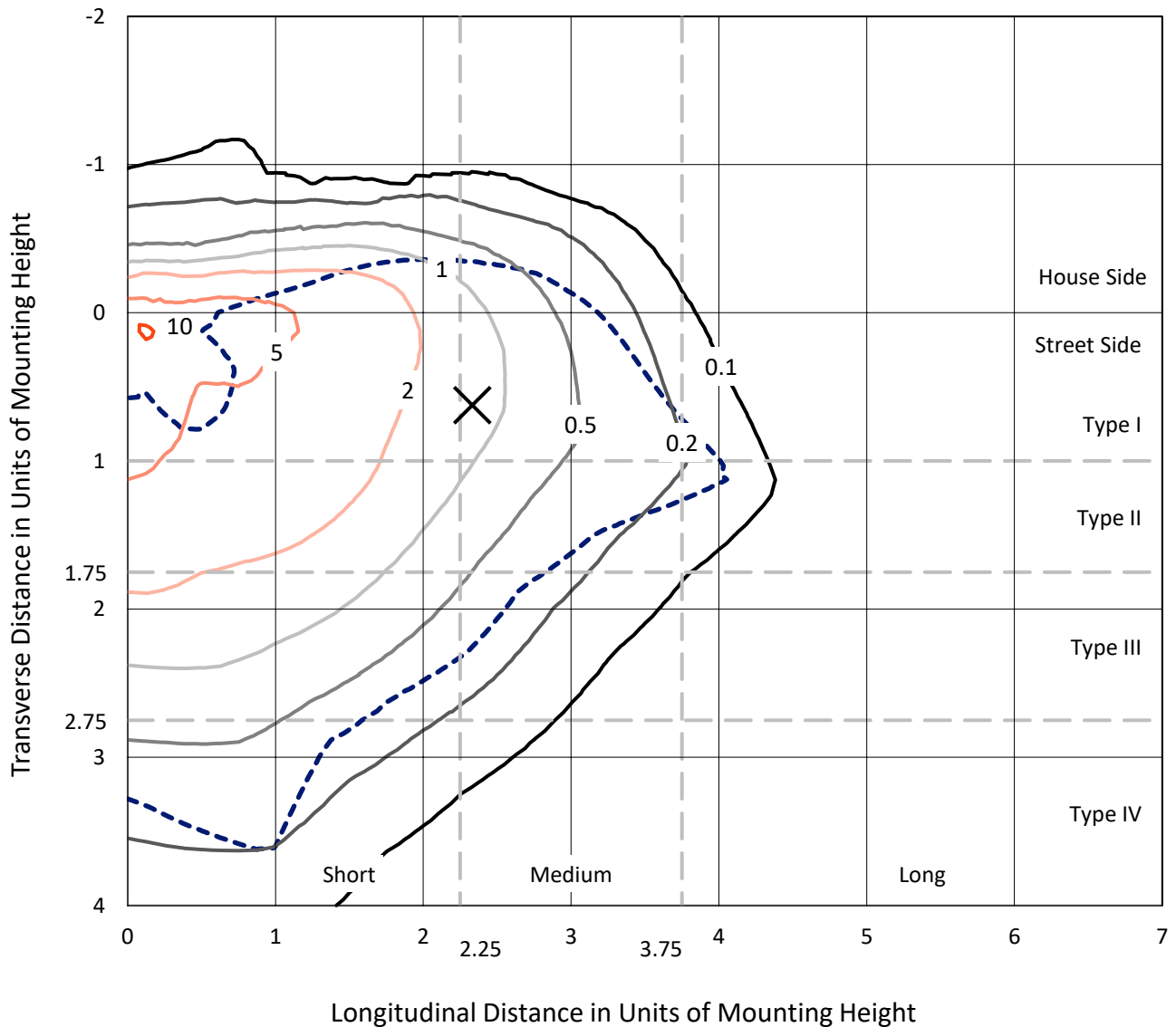
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

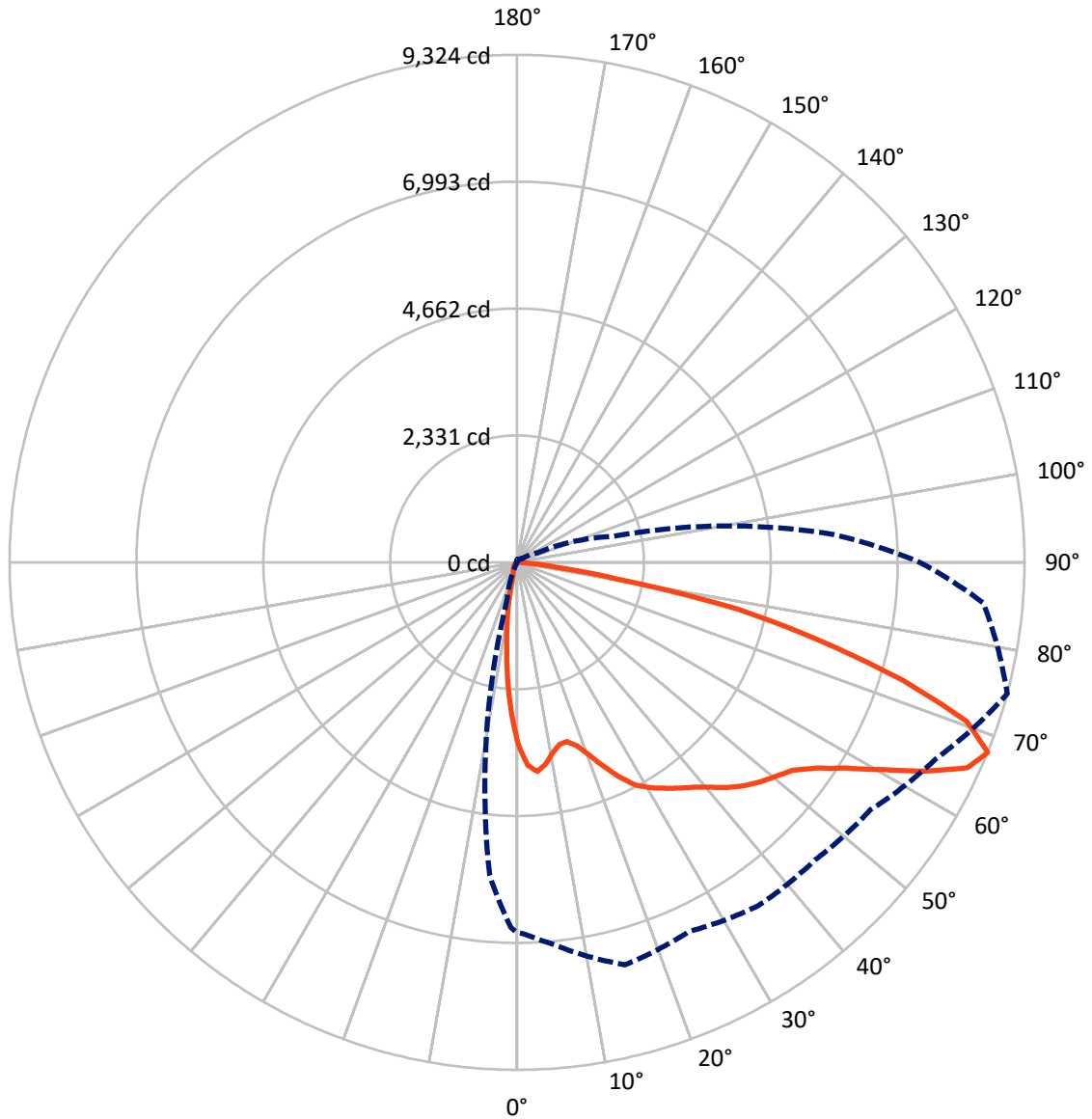
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.9 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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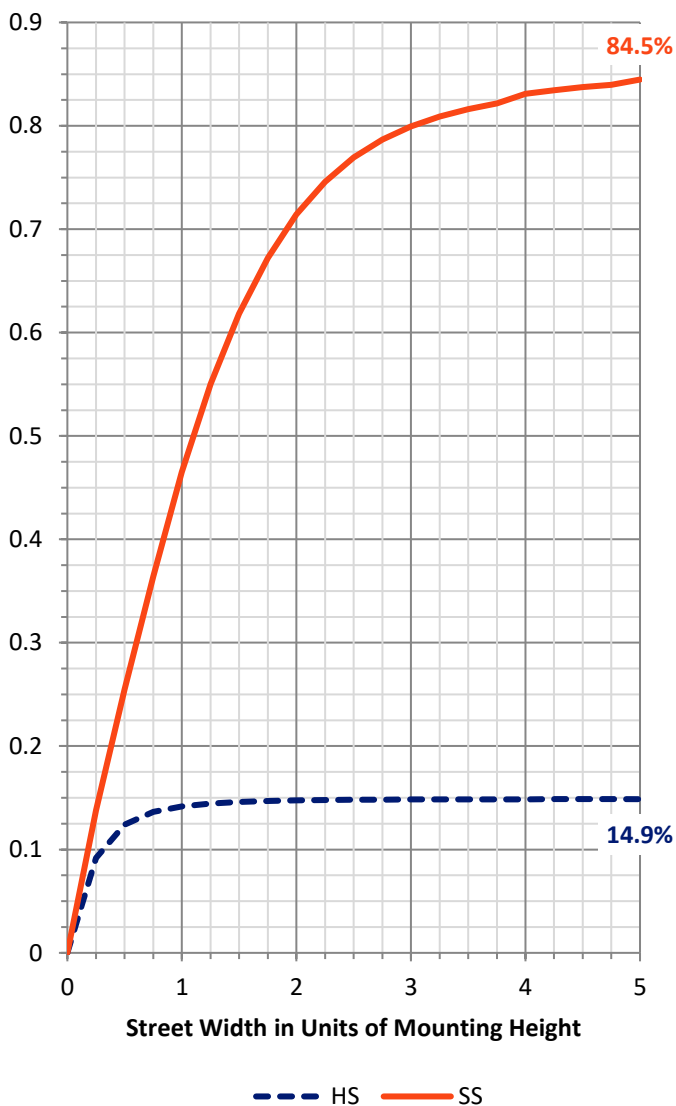
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1506.5	0.0	1506.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	8532.5	0.0	8532.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	10039.0	0.0	10039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	2.5
10°-20°	503.0	5.0
20°-30°	711.6	7.1
30°-40°	1046.3	10.4
40°-50°	1503.9	15.0
50°-60°	2117.1	21.1
60°-70°	2472.6	24.6
70°-80°	1261.4	12.6
80°-90°	167.6	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°	10039.0	100.0
0°-180°	10039.0	100.0

Coefficient of Utilization



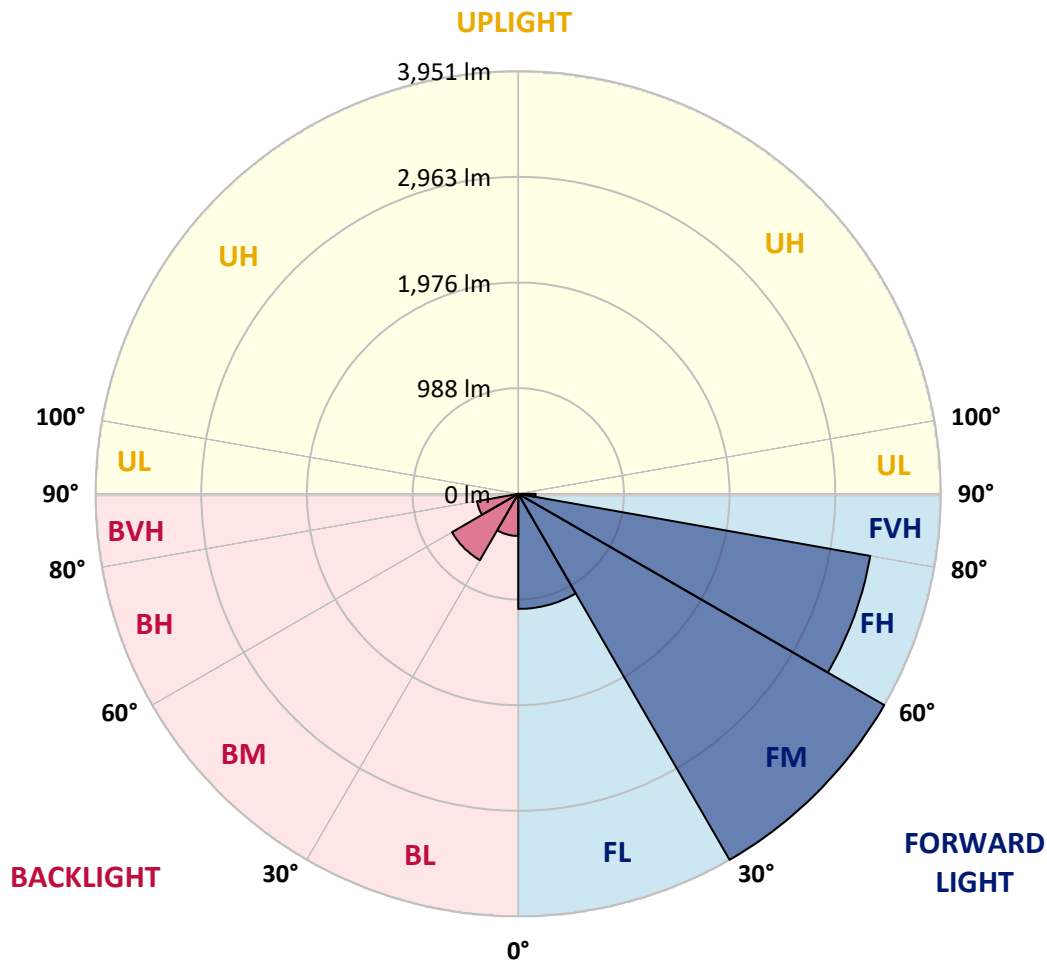
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1076.2	10.7			
FM (30°-60°)	3951.2	39.4			
FH (60°-80°)	3342.7	33.3			G2/5000
FVH (80°-90°)	162.5	1.6			G2/225
BL (0°-30°)	394.0	3.9	B1/500		
BM (30°-60°)	716.1	7.1	B1/1000		
BH (60°-80°)	391.3	3.9	B1/500		G1/500
BVH (80°-90°)	5.1	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°	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9
2.5°	3650.9	3656.6	3686.1	3754.5	3829.2	3834.9	3885.3	3833.5	3815.9	3732.2	3645.6
5°	3678.5	3700.3	3801.6	4002.8	4177.3	4233.4	4273.4	4171.6	4064.6	3860.1	3641.8
7.5°	3456.4	3493.0	3652.3	4029.9	4341.9	4479.8	4505.9	4346.6	4084.6	3747.9	3419.7
10°	3172.0	3213.8	3406.0	3870.1	4298.6	4534.9	4571.1	4362.3	3985.7	3566.2	3179.6
12.5°	2941.8	2990.8	3187.2	3690.3	4149.7	4411.3	4482.6	4309.5	3900.1	3437.3	3015.5
15°	2835.8	2891.9	3098.3	3574.3	3984.7	4190.6	4249.6	4174.9	3852.5	3416.9	2977.5
17.5°	2896.6	2957.5	3170.6	3584.3	3829.7	3917.7	3965.2	3995.7	3852.5	3540.1	3088.8
20°	3146.3	3211.9	3437.3	3685.6	3701.3	3668.5	3719.4	3826.4	3897.2	3774.0	3356.0
22.5°	3491.6	3568.6	3823.0	3859.2	3638.5	3514.4	3521.0	3688.9	3978.5	4070.8	3727.0
25°	3912.4	4006.6	4265.3	4117.9	3664.7	3422.6	3420.2	3575.7	4057.9	4368.0	4140.2
27.5°	4330.4	4434.1	4661.4	4433.6	3772.6	3406.0	3401.2	3541.5	4135.5	4632.4	4591.5
30°	4680.9	4781.8	4977.7	4662.4	3889.1	3445.0	3422.1	3578.1	4181.6	4804.1	4920.6
32.5°	4966.3	5047.1	5205.5	4819.8	4013.7	3520.6	3471.1	3676.1	4260.1	4949.1	5223.1
35°	5280.1	5365.3	5428.5	4969.6	4153.5	3629.5	3558.6	3831.6	4380.9	5096.6	5554.5
37.5°	5638.2	5722.9	5715.3	5106.6	4330.9	3809.7	3764.5	4077.9	4568.7	5242.6	5924.5
40°	5988.7	6075.3	6013.5	5256.4	4539.2	4106.9	4073.6	4447.9	4820.3	5429.5	6358.2
42.5°	6316.9	6410.5	6278.3	5398.1	4787.5	4481.7	4538.7	4924.4	5135.1	5659.6	6732.0
45°	6581.3	6676.9	6500.4	5536.0	5049.0	4936.3	5108.0	5452.3	5513.6	5854.1	6984.5
47.5°	6773.4	6863.8	6654.5	5673.9	5383.8	5492.2	5791.4	6005.8	5855.6	6023.0	7163.8
50°	6896.1	6966.5	6699.7	5846.5	5823.2	6140.9	6503.3	6607.9	6177.5	6175.1	7381.6
52.5°	6974.1	7005.9	6733.0	6026.8	6281.7	6847.1	7200.4	7233.3	6509.0	6342.5	7675.1
55°	7242.8	7268.5	6968.8	6245.0	6660.7	7465.8	7831.0	7800.6	6884.2	6670.2	8021.3
57.5°	7701.2	7728.3	7456.3	6558.9	6967.4	7848.2	8288.1	8342.7	7324.1	7130.5	8392.2
60°	7931.4	7981.8	7884.8	6956.5	7264.6	8092.6	8599.5	8774.1	7873.8	7737.4	8751.7
62.5°	7722.6	7795.8	7936.6	7397.3	7560.0	8227.2	8696.6	8928.6	8436.9	8444.5	8973.3
65°	7306.0	7364.5	7603.2	7638.9	7731.2	8210.5	8456.9	8712.7	8781.7	9094.1	8961.4
67.5°	6802.9	6824.8	7027.3	7657.9	7482.9	7710.2	7736.9	7926.2	8509.2	9324.3	8601.4
70°	6078.6	6090.5	6267.4	7021.2	6430.5	6480.5	6441.0	6479.5	7315.5	8763.6	7692.7
72.5°	4892.1	4922.0	5173.6	5830.8	4684.7	4540.6	4850.7	4833.6	5634.0	7404.0	5713.4
75°	3601.9	3653.7	4033.7	4696.6	3288.0	2974.1	3200.5	3260.9	4005.2	5727.2	3572.9
77.5°	2521.9	2560.4	2928.5	3452.6	2379.7	2126.7	2044.9	2116.7	2643.6	4143.1	1800.0
80°	1452.8	1467.1	1702.0	1993.5	1603.6	1834.7	1662.1	1711.5	1584.1	1843.3	774.2
82.5°	950.6	953.0	1044.8	1186.5	998.7	1160.4	858.9	1098.1	974.4	740.4	252.0
85°	513.6	516.5	605.9	842.2	565.4	319.6	187.8	385.7	602.5	169.8	69.0
87.5°	56.6	51.8	182.6	306.3	156.9	29.0	10.0	43.3	96.5	10.9	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°	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9
2.5°	3601.4	3561.9	3463.5	3359.4	3275.7	3197.2	3118.2	3021.7	2947.0	2931.8	2907.1
5°	3524.4	3399.3	3192.9	2985.6	2818.6	2608.0	2474.3	2370.2	2268.4	2262.2	2241.8
7.5°	3255.2	3090.7	2800.1	2513.3	2278.4	2077.7	1875.1	1739.6	1633.1	1595.5	1573.2
10°	2996.5	2811.5	2448.7	2121.5	1911.7	1734.4	1591.7	1450.0	1321.6	1233.1	1193.2
12.5°	2815.8	2611.3	2211.4	1929.3	1779.1	1610.7	1436.7	1259.8	1111.9	1005.3	940.2
15°	2745.9	2527.6	2131.9	1853.3	1667.8	1454.7	1232.2	1030.1	866.0	769.5	711.0
17.5°	2829.1	2575.2	2125.8	1760.5	1501.3	1236.5	990.6	751.9	597.3	524.1	486.5
20°	3040.3	2726.4	2123.4	1646.9	1303.5	977.8	671.0	494.6	400.9	360.0	342.4
22.5°	3338.9	2919.5	2142.4	1534.6	1097.6	698.6	463.2	363.3	315.3	293.4	283.4
25°	3723.2	3190.5	2196.1	1432.9	904.0	521.2	360.9	304.4	270.6	253.5	246.3
27.5°	4132.6	3502.5	2279.8	1344.4	746.6	415.6	309.1	260.6	236.4	224.5	217.8
30°	4470.3	3863.9	2364.5	1246.0	632.5	362.4	283.0	237.8	209.7	202.1	195.9
32.5°	4765.6	4137.4	2424.4	1157.0	557.8	322.0	255.9	212.6	193.6	178.8	172.2
35°	5071.4	4365.2	2422.5	1094.7	506.5	291.5	233.0	190.2	167.4	150.3	145.0
37.5°	5402.4	4622.4	2381.1	1041.5	484.1	267.3	220.2	178.3	155.5	138.4	131.7
40°	5789.9	4892.6	2338.8	991.5	477.9	247.8	211.1	168.8	144.6	127.9	121.3
42.5°	6167.5	5136.0	2301.7	954.4	451.3	247.3	203.1	161.7	136.0	119.8	112.2
45°	6469.5	5362.9	2294.6	932.1	423.2	255.9	198.8	156.9	129.4	113.2	106.0
47.5°	6720.6	5609.2	2340.2	916.4	396.6	233.5	209.2	153.6	123.2	107.5	99.4
50°	7019.3	5911.7	2447.7	890.7	368.6	210.2	239.7	154.6	117.9	101.8	93.2
52.5°	7435.8	6330.2	2605.6	847.4	330.0	188.8	235.9	155.5	112.2	95.6	87.0
55°	7902.8	6852.8	2775.4	775.6	276.3	160.7	202.1	148.9	101.3	88.9	80.8
57.5°	8393.6	7326.9	2876.2	690.0	219.7	138.9	161.7	135.5	89.4	79.9	74.7
60°	8470.7	7507.2	2830.1	584.9	174.5	120.8	119.8	137.9	79.9	70.4	66.6
62.5°	8279.0	7280.8	2607.0	491.3	146.0	106.0	98.4	120.3	72.3	62.8	59.0
65°	7910.5	6668.8	2245.6	442.7	135.5	90.8	81.8	84.6	63.2	54.7	51.4
67.5°	7397.8	5851.8	1843.7	415.2	134.1	78.0	69.9	64.2	54.7	47.6	44.7
70°	6349.7	4875.0	1470.9	399.9	130.3	65.6	59.0	52.3	45.7	40.4	38.0
72.5°	4673.3	3454.5	1144.2	383.3	131.3	52.3	51.4	43.3	36.6	31.4	30.4
75°	2700.2	1973.6	750.4	310.5	125.1	40.4	42.8	30.4	25.7	21.9	21.9
77.5°	1439.0	1203.6	285.8	129.4	45.7	25.7	24.3	18.1	16.2	13.3	12.8
80°	627.3	529.8	86.1	36.1	25.2	13.8	9.0	8.1	7.1	5.7	5.2
82.5°	222.1	191.7	28.1	17.6	10.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.4	36.1	0.0	4.3	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°	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9
2.5°	2856.7	2846.2	2784.4	2786.8	2797.7	2813.4	2776.3	2793.4	2839.6	2883.8	2900.4
5°	2209.0	2211.4	2173.8	2197.1	2218.0	2232.3	2172.4	2173.3	2209.9	2259.9	2286.0
7.5°	1556.5	1552.7	1554.6	1610.2	1649.7	1621.2	1643.5	1566.0	1570.8	1606.4	1579.8
10°	1157.0	1104.7	1075.2	1117.1	1160.4	1144.7	1106.2	1080.9	1098.5	1138.0	1135.2
12.5°	909.3	834.1	789.9	759.9	795.6	766.1	765.2	743.3	719.5	723.8	787.1
15°	683.9	629.2	576.9	528.8	527.9	517.9	467.0	409.9	405.2	408.0	440.8
17.5°	470.3	451.8	430.4	389.0	378.1	336.2	286.8	263.9	252.5	257.8	268.7
20°	330.5	323.4	325.8	303.4	287.7	247.8	218.8	209.7	207.8	213.1	218.3
22.5°	273.9	261.1	259.7	249.7	234.0	205.0	189.3	184.0	181.7	186.4	190.2
25°	239.7	226.8	221.6	215.4	198.8	178.8	169.3	164.5	162.2	165.0	167.4
27.5°	211.1	199.3	194.5	190.2	174.1	159.8	152.2	147.9	146.0	146.9	149.3
30°	189.7	179.3	173.1	167.9	154.1	144.1	137.4	133.2	131.3	131.3	133.6
32.5°	167.4	161.7	156.0	149.3	136.5	129.8	123.2	118.4	116.5	117.0	118.9
35°	139.3	137.4	138.9	132.7	121.7	116.0	109.4	104.1	102.7	103.2	105.1
37.5°	123.6	115.1	120.3	117.0	110.8	103.2	94.6	89.9	87.5	88.9	89.9
40°	113.7	103.2	99.4	102.7	101.8	89.4	81.8	77.0	75.1	75.6	76.6
42.5°	105.1	92.7	84.2	83.7	89.4	78.0	69.9	65.6	63.2	63.2	64.2
45°	97.0	83.7	73.2	65.2	75.1	66.1	58.5	54.7	51.8	51.8	52.3
47.5°	90.8	76.1	63.7	53.3	56.6	54.2	48.0	44.2	41.4	41.4	41.8
50°	85.1	68.5	55.2	44.7	42.3	44.7	39.0	34.7	32.8	32.3	33.3
52.5°	78.9	60.9	47.1	38.0	33.3	33.8	30.4	27.6	25.2	25.2	26.2
55°	72.8	54.7	40.9	32.3	27.6	25.2	24.3	22.4	20.4	20.4	21.4
57.5°	66.6	48.0	34.7	26.6	21.9	20.0	20.0	18.5	17.1	17.1	18.1
60°	60.9	41.4	28.5	21.9	17.1	16.6	17.1	15.7	14.7	14.7	15.7
62.5°	54.2	35.2	23.3	18.1	13.8	13.3	14.7	13.8	12.8	12.8	13.8
65°	46.1	30.0	18.5	13.8	10.5	10.5	12.4	11.4	10.5	10.5	11.4
67.5°	39.0	25.2	14.3	10.0	7.6	8.1	10.5	9.5	9.0	9.0	10.0
70°	32.3	19.5	10.0	6.2	4.3	6.2	8.1	8.1	8.1	8.1	9.0
72.5°	24.3	13.3	5.7	2.4	1.9	4.3	6.7	7.6	7.1	7.1	8.6
75°	15.7	7.6	1.9	0.0	0.0	2.4	5.2	6.2	6.2	5.7	7.1
77.5°	9.0	2.4	0.0	0.0	0.0	0.0	3.3	2.9	2.4	1.9	3.3
80°	2.4	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°	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9
2.5°	2967.5	3023.6	3102.6	3186.2	3315.1	3417.4	3517.7	3603.8	3637.1	3650.9
5°	2348.8	2431.1	2546.6	2695.0	2927.5	3136.8	3348.9	3562.4	3655.2	3678.5
7.5°	1685.4	1790.5	1937.4	2123.4	2395.9	2666.9	2963.2	3276.6	3420.2	3456.4
10°	1247.4	1375.8	1544.1	1740.1	2000.2	2278.9	2601.8	2959.9	3124.0	3172.0
12.5°	885.0	1058.6	1284.0	1522.3	1747.7	1996.4	2323.1	2717.8	2890.0	2941.8
15°	519.8	687.7	954.4	1273.5	1562.2	1814.3	2146.2	2593.7	2783.5	2835.8
17.5°	298.2	381.9	583.5	939.2	1331.1	1680.2	2090.6	2624.6	2848.1	2896.6
20°	227.8	254.4	336.2	604.9	1061.0	1548.4	2090.6	2799.6	3075.0	3146.3
22.5°	199.3	218.8	252.0	360.9	780.9	1407.2	2114.8	3052.6	3412.6	3491.6
25°	176.9	194.5	223.0	271.5	532.6	1239.3	2172.4	3363.2	3810.2	3912.4
27.5°	158.4	175.0	200.7	237.8	364.3	1036.7	2249.9	3727.4	4248.6	4330.4
30°	141.7	157.4	180.7	206.9	281.1	807.0	2316.0	4070.8	4593.0	4680.9
32.5°	126.0	140.3	161.2	180.7	230.2	596.8	2323.1	4342.8	4878.8	4966.3
35°	111.3	124.1	143.1	158.4	190.7	471.3	2212.3	4578.7	5164.6	5280.1
37.5°	97.0	109.4	126.0	137.4	167.9	384.3	2043.0	4841.7	5531.2	5638.2
40°	83.7	94.6	111.8	119.4	158.8	295.3	1859.0	5117.5	5890.8	5988.7
42.5°	71.3	81.8	98.4	113.2	139.3	220.7	1660.2	5376.2	6214.1	6316.9
45°	59.4	70.4	87.0	119.8	115.6	165.0	1447.6	5547.9	6469.5	6581.3
47.5°	48.0	60.4	83.2	114.1	92.3	121.3	1279.3	5710.5	6663.1	6773.4
50°	38.5	50.9	93.7	101.8	75.6	92.7	1208.9	5856.0	6790.0	6896.1
52.5°	31.4	42.8	88.5	78.0	63.2	76.6	1246.9	6091.9	6907.5	6974.1
55°	26.2	33.8	53.3	54.2	53.7	65.2	1294.0	6430.5	7211.4	7242.8
57.5°	22.8	27.1	37.1	41.8	45.2	58.0	1294.9	6916.5	7681.7	7701.2
60°	19.5	23.8	30.9	33.8	39.0	51.8	1247.9	7086.3	7866.7	7931.4
62.5°	17.1	20.9	25.7	28.1	32.8	46.6	1137.5	6840.4	7612.8	7722.6
65°	15.2	19.0	21.4	23.8	29.0	41.8	955.9	6348.7	7191.4	7306.0
67.5°	13.3	16.6	19.0	21.4	26.2	37.1	703.8	5777.6	6707.8	6802.9
70°	11.9	14.7	17.1	19.0	22.8	31.4	427.1	4902.5	6039.1	6078.6
72.5°	11.4	13.3	15.7	17.1	20.0	27.6	216.4	3602.8	4827.9	4892.1
75°	10.0	11.9	14.3	15.2	17.6	23.8	88.0	2366.4	3498.7	3601.9
77.5°	8.1	10.9	12.8	13.8	15.2	19.5	44.7	1512.3	2455.3	2521.9
80°	2.9	8.1	10.9	11.4	12.8	14.3	29.5	827.9	1424.3	1452.8
82.5°	0.0	5.2	8.6	8.1	9.0	10.9	19.0	393.8	940.2	950.6
85°	0.0	2.4	6.7	5.2	3.8	7.6	6.7	86.1	493.2	513.6
87.5°	0.0	0.0	0.5	2.4	1.9	2.9	1.0	0.5	44.7	56.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)