

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: P386642

Luminaire Tested: GAW-SA2B-750-U-SLL-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386642
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-750-U-SLL-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 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: 8842 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

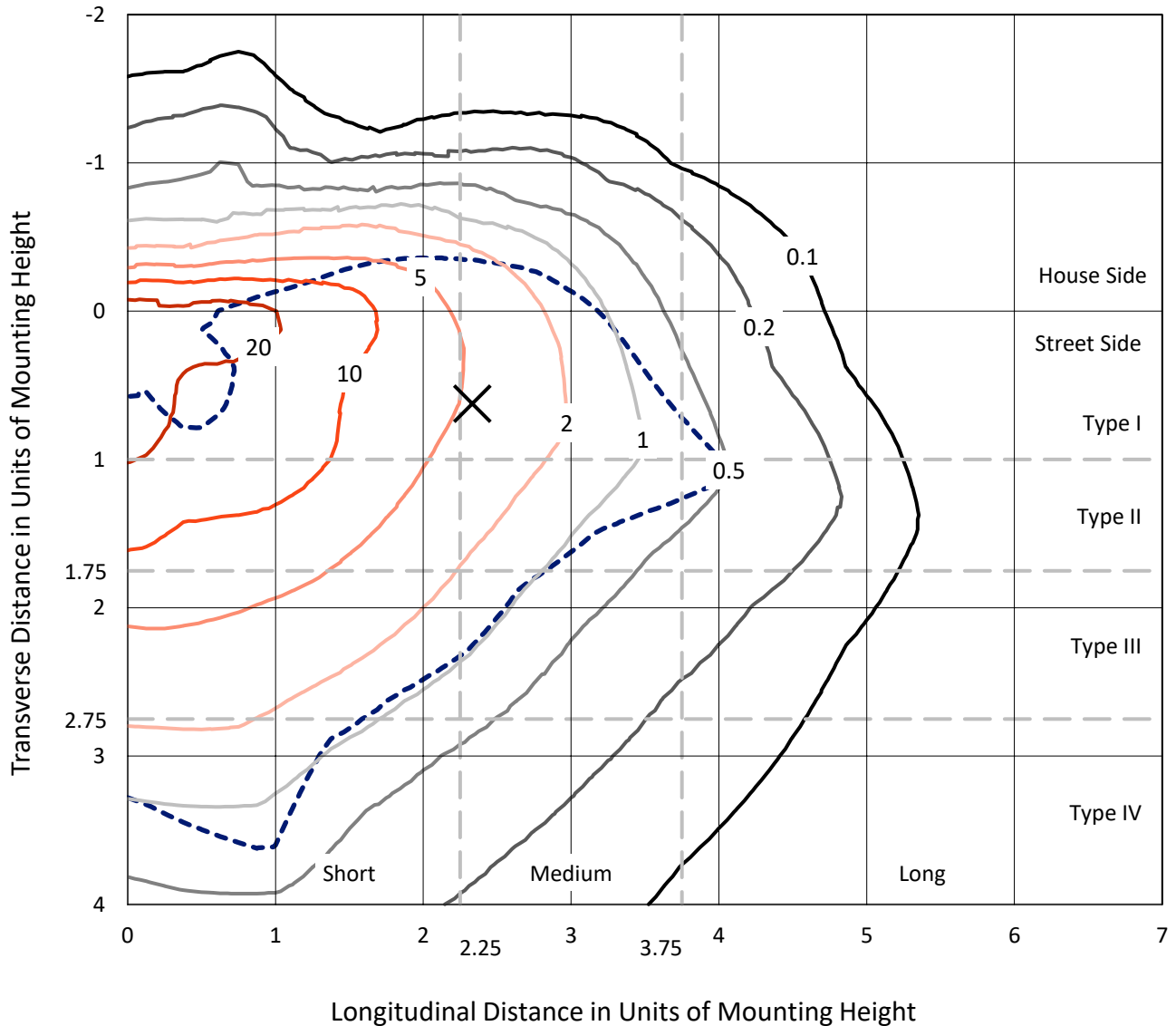
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

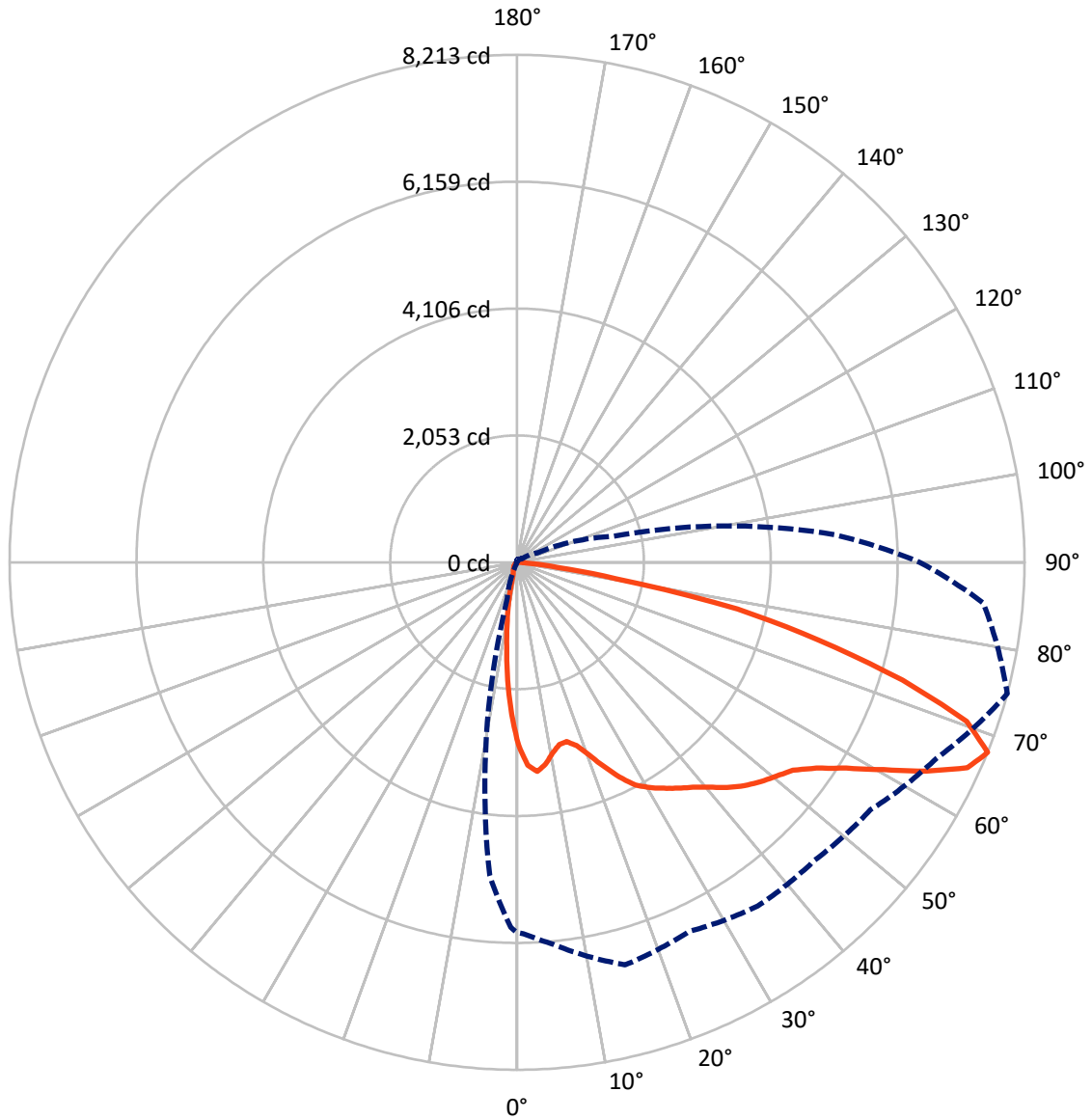
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 38.4 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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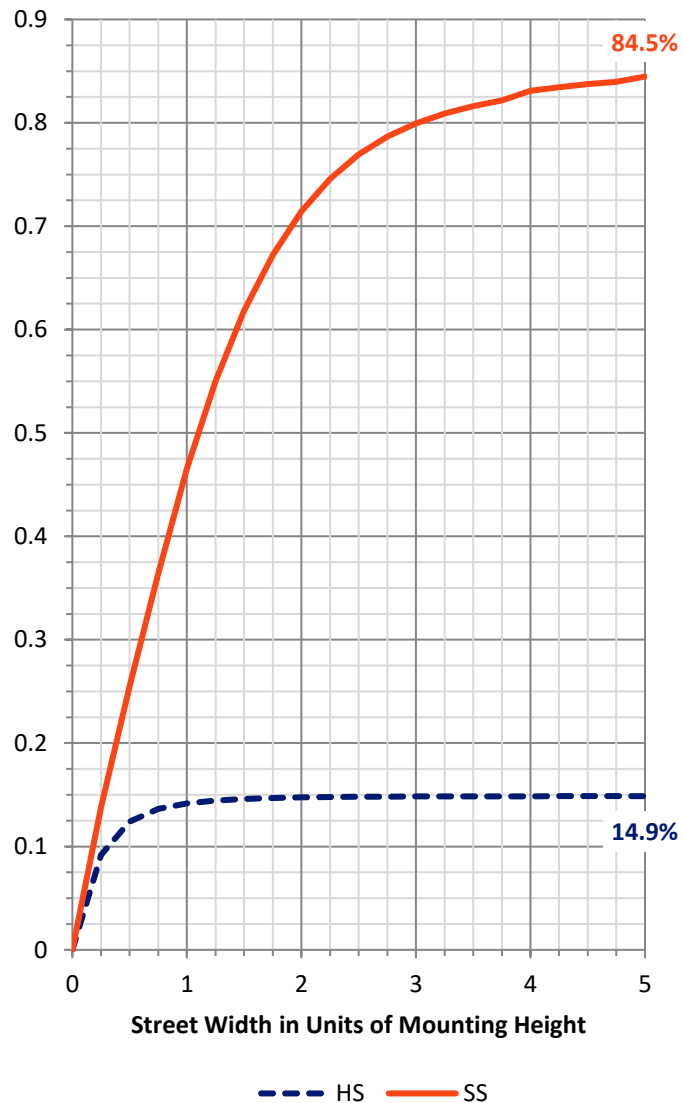
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1326.8	0.0	1326.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	7515.2	0.0	7515.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	8842.0	0.0	8842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	2.5
10°-20°	443.0	5.0
20°-30°	626.8	7.1
30°-40°	921.6	10.4
40°-50°	1324.6	15.0
50°-60°	1864.7	21.1
60°-70°	2177.8	24.6
70°-80°	1111.0	12.6
80°-90°	147.6	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°	8842.0	100.0
0°-180°	8842.0	100.0

Coefficient of Utilization



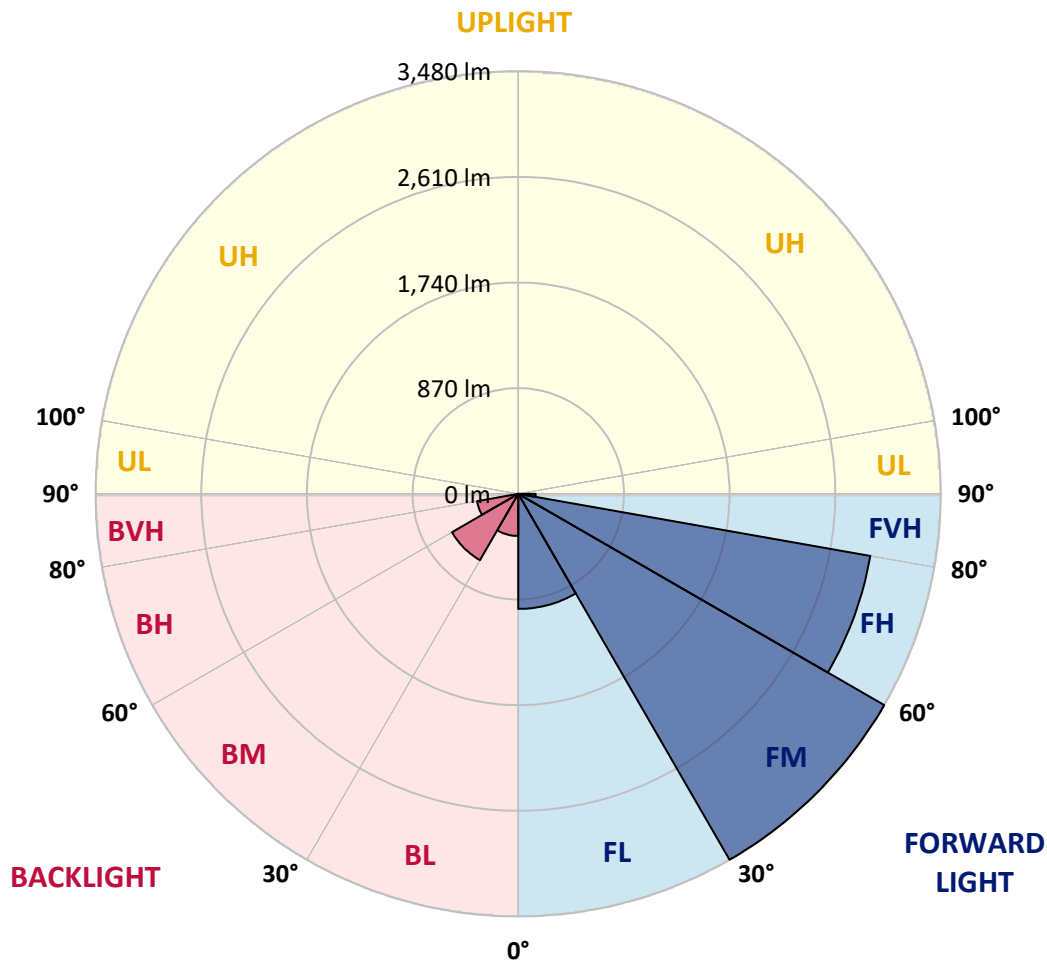
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	947.9	10.7			
FM (30°-60°)	3480.1	39.4			
FH (60°-80°)	2944.1	33.3			G2/5000
FVH (80°-90°)	143.1	1.6			G2/225
BL (0°-30°)	347.0	3.9	B1/500		
BM (30°-60°)	630.7	7.1	B1/1000		
BH (60°-80°)	344.6	3.9	B1/500		G1/500
BVH (80°-90°)	4.5	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°	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3
2.5°	3215.6	3220.6	3246.6	3306.9	3372.6	3377.7	3422.1	3376.4	3360.9	3287.2	3211.0
5°	3239.9	3259.1	3348.3	3525.5	3679.2	3728.7	3763.8	3674.2	3580.0	3399.9	3207.6
7.5°	3044.2	3076.5	3216.8	3549.4	3824.2	3945.6	3968.7	3828.3	3597.6	3301.0	3012.0
10°	2793.8	2830.6	2999.8	3408.7	3786.0	3994.2	4026.0	3842.2	3510.4	3141.0	2800.5
12.5°	2591.0	2634.2	2807.2	3250.3	3654.9	3885.3	3948.1	3795.7	3435.0	3027.5	2656.0
15°	2497.6	2547.1	2728.8	3148.1	3509.6	3691.0	3742.9	3677.1	3393.2	3009.5	2622.5
17.5°	2551.3	2604.9	2792.5	3156.9	3373.0	3450.5	3492.4	3519.2	3393.2	3118.0	2720.5
20°	2771.2	2829.0	3027.5	3246.1	3260.0	3231.1	3275.9	3370.1	3432.5	3324.0	2955.9
22.5°	3075.2	3143.1	3367.2	3399.0	3204.7	3095.3	3101.2	3249.1	3504.2	3585.4	3282.6
25°	3445.9	3528.9	3756.7	3626.9	3227.7	3014.5	3012.4	3149.4	3574.1	3847.2	3646.6
27.5°	3814.1	3905.4	4105.6	3905.0	3322.8	2999.8	2995.7	3119.2	3642.4	4080.1	4044.1
30°	4122.8	4211.6	4384.2	4106.5	3425.4	3034.2	3014.1	3151.5	3683.0	4231.3	4333.9
32.5°	4374.1	4445.3	4584.8	4245.1	3535.1	3100.8	3057.2	3237.8	3752.1	4359.0	4600.3
35°	4650.6	4725.5	4781.2	4377.0	3658.3	3196.7	3134.3	3374.7	3858.5	4488.9	4892.2
37.5°	4966.0	5040.5	5033.8	4497.7	3814.5	3355.5	3315.7	3591.7	4024.0	4617.5	5218.1
40°	5274.7	5350.9	5296.4	4629.6	3998.0	3617.2	3587.9	3917.6	4245.5	4782.1	5600.1
42.5°	5563.7	5646.2	5529.7	4754.4	4216.6	3947.3	3997.6	4337.3	4522.8	4984.8	5929.3
45°	5796.6	5880.7	5725.3	4875.9	4447.0	4347.7	4498.9	4802.2	4856.2	5156.1	6151.7
47.5°	5965.8	6045.4	5861.1	4997.4	4741.9	4837.4	5100.8	5289.7	5157.4	5304.8	6309.7
50°	6073.8	6135.8	5900.8	5149.4	5128.9	5408.7	5727.9	5820.0	5440.9	5438.8	6501.5
52.5°	6142.5	6170.6	5930.2	5308.2	5532.7	6030.7	6341.9	6370.8	5732.9	5586.3	6759.9
55°	6379.2	6401.8	6137.9	5500.4	5866.5	6575.6	6897.3	6870.5	6063.4	5874.9	7064.8
57.5°	6783.0	6806.8	6567.2	5776.9	6136.7	6912.4	7299.8	7348.0	6450.8	6280.3	7391.6
60°	6985.7	7030.1	6944.6	6127.0	6398.4	7127.7	7574.2	7727.9	6935.0	6814.8	7708.2
62.5°	6801.8	6866.3	6990.3	6515.3	6658.6	7246.2	7659.6	7864.0	7430.9	7437.6	7903.4
65°	6434.9	6486.4	6696.7	6728.1	6809.3	7231.6	7448.5	7673.9	7734.6	8009.8	7892.9
67.5°	5991.7	6011.0	6189.4	6744.8	6590.7	6790.9	6814.4	6981.1	7494.6	8212.5	7575.9
70°	5353.8	5364.3	5520.1	6184.0	5663.8	5707.8	5673.0	5706.9	6443.3	7718.7	6775.4
72.5°	4308.8	4335.2	4556.7	5135.6	4126.2	3999.2	4272.3	4257.3	4962.2	6521.2	5032.1
75°	3172.4	3218.1	3552.7	4136.6	2896.0	2619.5	2818.9	2872.1	3527.6	5044.3	3146.9
77.5°	2221.2	2255.1	2579.3	3040.9	2096.0	1873.1	1801.1	1864.3	2328.4	3649.1	1585.4
80°	1279.6	1292.2	1499.1	1755.8	1412.4	1615.9	1463.9	1507.5	1395.2	1623.5	681.9
82.5°	837.3	839.4	920.2	1045.0	879.6	1022.0	756.5	967.1	858.2	652.2	222.0
85°	452.4	454.9	533.6	741.8	498.0	281.5	165.4	339.7	530.7	149.5	60.7
87.5°	49.8	45.7	160.8	269.7	138.2	25.6	8.8	38.1	85.0	9.6	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°	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3
2.5°	3172.0	3137.2	3050.5	2958.8	2885.1	2816.0	2746.4	2661.4	2595.7	2582.2	2560.5
5°	3104.1	2994.0	2812.2	2629.6	2482.6	2297.0	2179.3	2087.6	1997.9	1992.5	1974.5
7.5°	2867.1	2722.1	2466.2	2213.7	2006.7	1830.0	1651.6	1532.2	1438.4	1405.3	1385.6
10°	2639.2	2476.3	2156.7	1868.5	1683.8	1527.6	1401.9	1277.1	1164.0	1086.1	1050.9
12.5°	2480.0	2299.9	1947.7	1699.3	1566.9	1418.7	1265.4	1109.6	979.3	885.5	828.1
15°	2418.5	2226.2	1877.7	1632.3	1468.9	1281.3	1085.3	907.2	762.7	677.7	626.2
17.5°	2491.8	2268.1	1872.3	1550.6	1322.3	1089.0	872.5	662.2	526.1	461.6	428.5
20°	2677.7	2401.3	1870.2	1450.5	1148.1	861.2	591.0	435.6	353.1	317.1	301.6
22.5°	2940.8	2571.4	1886.9	1351.6	966.7	615.3	408.0	320.0	277.7	258.4	249.6
25°	3279.2	2810.1	1934.3	1262.0	796.2	459.1	317.9	268.1	238.3	223.3	217.0
27.5°	3639.9	3084.9	2008.0	1184.1	657.6	366.1	272.3	229.5	208.2	197.7	191.8
30°	3937.2	3403.2	2082.6	1097.4	557.1	319.2	249.2	209.4	184.7	178.0	172.6
32.5°	4197.4	3644.0	2135.3	1019.1	491.3	283.6	225.3	187.2	170.5	157.5	151.6
35°	4466.7	3844.7	2133.7	964.2	446.1	256.8	205.2	167.5	147.4	132.4	127.8
37.5°	4758.2	4071.3	2097.2	917.3	426.4	235.4	193.9	157.1	137.0	121.9	116.0
40°	5099.6	4309.2	2059.9	873.3	421.0	218.2	186.0	148.7	127.3	112.7	106.8
42.5°	5432.1	4523.6	2027.3	840.6	397.5	217.8	178.9	142.4	119.8	105.6	98.9
45°	5698.1	4723.4	2021.0	821.0	372.8	225.3	175.1	138.2	113.9	99.7	93.4
47.5°	5919.3	4940.4	2061.2	807.1	349.3	205.7	184.3	135.3	108.5	94.7	87.5
50°	6182.3	5206.8	2155.9	784.5	324.6	185.1	211.1	136.1	103.9	89.6	82.1
52.5°	6549.2	5575.4	2294.9	746.4	290.7	166.3	207.8	137.0	98.9	84.2	76.7
55°	6960.6	6035.7	2444.4	683.2	243.4	141.6	178.0	131.1	89.2	78.3	71.2
57.5°	7392.8	6453.3	2533.2	607.8	193.5	122.3	142.4	119.4	78.7	70.4	65.8
60°	7460.7	6612.1	2492.6	515.2	153.7	106.4	105.6	121.5	70.4	62.0	58.6
62.5°	7291.9	6412.7	2296.2	432.7	128.6	93.4	86.7	106.0	63.7	55.3	51.9
65°	6967.3	5873.6	1977.8	390.0	119.4	80.0	72.0	74.6	55.7	48.2	45.2
67.5°	6515.7	5154.0	1623.9	365.7	118.1	68.7	61.6	56.5	48.2	41.9	39.4
70°	5592.6	4293.7	1295.5	352.3	114.8	57.8	51.9	46.1	40.2	35.6	33.5
72.5°	4116.1	3042.6	1007.8	337.6	115.6	46.1	45.2	38.1	32.3	27.6	26.8
75°	2378.3	1738.3	661.0	273.5	110.2	35.6	37.7	26.8	22.6	19.3	19.3
77.5°	1267.5	1060.1	251.7	113.9	40.2	22.6	21.4	15.9	14.2	11.7	11.3
80°	552.5	466.6	75.8	31.8	22.2	12.1	8.0	7.1	6.3	5.0	4.6
82.5°	195.6	168.8	24.7	15.5	9.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.4	31.8	0.0	3.8	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°	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3
2.5°	2516.1	2506.9	2452.4	2454.5	2464.1	2478.0	2445.3	2460.4	2501.0	2539.9	2554.6
5°	1945.6	1947.7	1914.6	1935.1	1953.5	1966.1	1913.3	1914.2	1946.4	1990.4	2013.4
7.5°	1370.9	1367.6	1369.2	1418.2	1453.0	1427.9	1447.6	1379.3	1383.5	1414.9	1391.4
10°	1019.1	973.0	947.0	983.9	1022.0	1008.2	974.3	952.1	967.6	1002.3	999.8
12.5°	800.9	734.7	695.7	669.3	700.7	674.8	673.9	654.7	633.7	637.5	693.2
15°	602.3	554.1	508.1	465.8	464.9	456.1	411.3	361.1	356.9	359.4	388.3
17.5°	414.2	397.9	379.1	342.6	333.0	296.1	252.6	232.5	222.4	227.0	236.7
20°	291.1	284.8	286.9	267.2	253.4	218.2	192.7	184.7	183.0	187.6	192.3
22.5°	241.3	230.0	228.7	219.9	206.1	180.5	166.7	162.1	160.0	164.2	167.5
25°	211.1	199.8	195.2	189.7	175.1	157.5	149.1	144.9	142.8	145.3	147.4
27.5°	186.0	175.5	171.3	167.5	153.3	140.7	134.0	130.3	128.6	129.4	131.5
30°	167.1	157.9	152.5	147.9	135.7	126.9	121.0	117.3	115.6	115.6	117.7
32.5°	147.4	142.4	137.4	131.5	120.2	114.3	108.5	104.3	102.6	103.0	104.7
35°	122.7	121.0	122.3	116.9	107.2	102.2	96.3	91.7	90.5	90.9	92.6
37.5°	108.9	101.4	106.0	103.0	97.6	90.9	83.4	79.2	77.1	78.3	79.2
40°	100.1	90.9	87.5	90.5	89.6	78.7	72.0	67.9	66.2	66.6	67.4
42.5°	92.6	81.7	74.1	73.7	78.7	68.7	61.6	57.8	55.7	55.7	56.5
45°	85.4	73.7	64.5	57.4	66.2	58.2	51.5	48.2	45.7	45.7	46.1
47.5°	80.0	67.0	56.1	46.9	49.8	47.7	42.3	39.0	36.4	36.4	36.9
50°	75.0	60.3	48.6	39.4	37.3	39.4	34.3	30.6	28.9	28.5	29.3
52.5°	69.5	53.6	41.5	33.5	29.3	29.7	26.8	24.3	22.2	22.2	23.0
55°	64.1	48.2	36.0	28.5	24.3	22.2	21.4	19.7	18.0	18.0	18.8
57.5°	58.6	42.3	30.6	23.5	19.3	17.6	17.6	16.3	15.1	15.1	15.9
60°	53.6	36.4	25.1	19.3	15.1	14.7	15.1	13.8	13.0	13.0	13.8
62.5°	47.7	31.0	20.5	15.9	12.1	11.7	13.0	12.1	11.3	11.3	12.1
65°	40.6	26.4	16.3	12.1	9.2	9.2	10.9	10.1	9.2	9.2	10.1
67.5°	34.3	22.2	12.6	8.8	6.7	7.1	9.2	8.4	8.0	8.0	8.8
70°	28.5	17.2	8.8	5.4	3.8	5.4	7.1	7.1	7.1	7.1	8.0
72.5°	21.4	11.7	5.0	2.1	1.7	3.8	5.9	6.7	6.3	6.3	7.5
75°	13.8	6.7	1.7	0.0	0.0	2.1	4.6	5.4	5.4	5.0	6.3
77.5°	8.0	2.1	0.0	0.0	0.0	0.0	2.9	2.5	2.1	1.7	2.9
80°	2.1	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°	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3	2966.3
2.5°	2613.7	2663.1	2732.6	2806.3	2919.8	3009.9	3098.3	3174.1	3203.4	3215.6
5°	2068.7	2141.2	2243.0	2373.7	2578.5	2762.8	2949.6	3137.7	3219.3	3239.9
7.5°	1484.4	1577.0	1706.4	1870.2	2110.2	2348.9	2609.9	2885.9	3012.4	3044.2
10°	1098.7	1211.8	1360.0	1532.6	1761.7	2007.2	2291.6	2607.0	2751.5	2793.8
12.5°	779.5	932.4	1130.9	1340.8	1539.3	1758.4	2046.1	2393.8	2545.4	2591.0
15°	457.8	605.7	840.6	1121.7	1375.9	1597.9	1890.3	2284.4	2451.6	2497.6
17.5°	262.6	336.3	513.9	827.2	1172.4	1479.8	1841.3	2311.7	2508.5	2551.3
20°	200.6	224.1	296.1	532.8	934.5	1363.8	1841.3	2465.8	2708.3	2771.2
22.5°	175.5	192.7	222.0	317.9	687.8	1239.4	1862.7	2688.6	3005.7	3075.2
25°	155.8	171.3	196.4	239.2	469.1	1091.5	1913.3	2962.2	3355.9	3445.9
27.5°	139.5	154.1	176.8	209.4	320.8	913.1	1981.6	3283.0	3742.1	3814.1
30°	124.8	138.6	159.2	182.2	247.5	710.8	2039.8	3585.4	4045.3	4122.8
32.5°	111.0	123.6	142.0	159.2	202.7	525.7	2046.1	3825.0	4297.0	4374.1
35°	98.0	109.3	126.1	139.5	168.0	415.1	1948.5	4032.7	4548.8	4650.6
37.5°	85.4	96.3	111.0	121.0	147.9	338.4	1799.4	4264.4	4871.7	4966.0
40°	73.7	83.4	98.4	105.1	139.9	260.1	1637.3	4507.3	5188.4	5274.7
42.5°	62.8	72.0	86.7	99.7	122.7	194.3	1462.2	4735.2	5473.2	5563.7
45°	52.4	62.0	76.7	105.6	101.8	145.3	1275.0	4886.4	5698.1	5796.6
47.5°	42.3	53.2	73.3	100.5	81.3	106.8	1126.7	5029.6	5868.6	5965.8
50°	33.9	44.8	82.5	89.6	66.6	81.7	1064.7	5157.8	5980.4	6073.8
52.5°	27.6	37.7	77.9	68.7	55.7	67.4	1098.2	5365.5	6083.9	6142.5
55°	23.0	29.7	46.9	47.7	47.3	57.4	1139.7	5663.8	6351.5	6379.2
57.5°	20.1	23.9	32.7	36.9	39.8	51.1	1140.5	6091.8	6765.8	6783.0
60°	17.2	20.9	27.2	29.7	34.3	45.7	1099.1	6241.4	6928.7	6985.7
62.5°	15.1	18.4	22.6	24.7	28.9	41.0	1001.9	6024.8	6705.1	6801.8
65°	13.4	16.8	18.8	20.9	25.6	36.9	841.9	5591.7	6333.9	6434.9
67.5°	11.7	14.7	16.8	18.8	23.0	32.7	619.9	5088.7	5908.0	5991.7
70°	10.5	13.0	15.1	16.8	20.1	27.6	376.1	4318.0	5319.1	5353.8
72.5°	10.1	11.7	13.8	15.1	17.6	24.3	190.6	3173.3	4252.2	4308.8
75°	8.8	10.5	12.6	13.4	15.5	20.9	77.5	2084.2	3081.5	3172.4
77.5°	7.1	9.6	11.3	12.1	13.4	17.2	39.4	1332.0	2162.6	2221.2
80°	2.5	7.1	9.6	10.1	11.3	12.6	26.0	729.2	1254.5	1279.6
82.5°	0.0	4.6	7.5	7.1	8.0	9.6	16.8	346.8	828.1	837.3
85°	0.0	2.1	5.9	4.6	3.4	6.7	5.9	75.8	434.4	452.4
87.5°	0.0	0.0	0.4	2.1	1.7	2.5	0.8	0.4	39.4	49.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)