

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: P324107

Luminaire Tested: **GAN-SA3A-730-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324107
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA 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: 9606 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

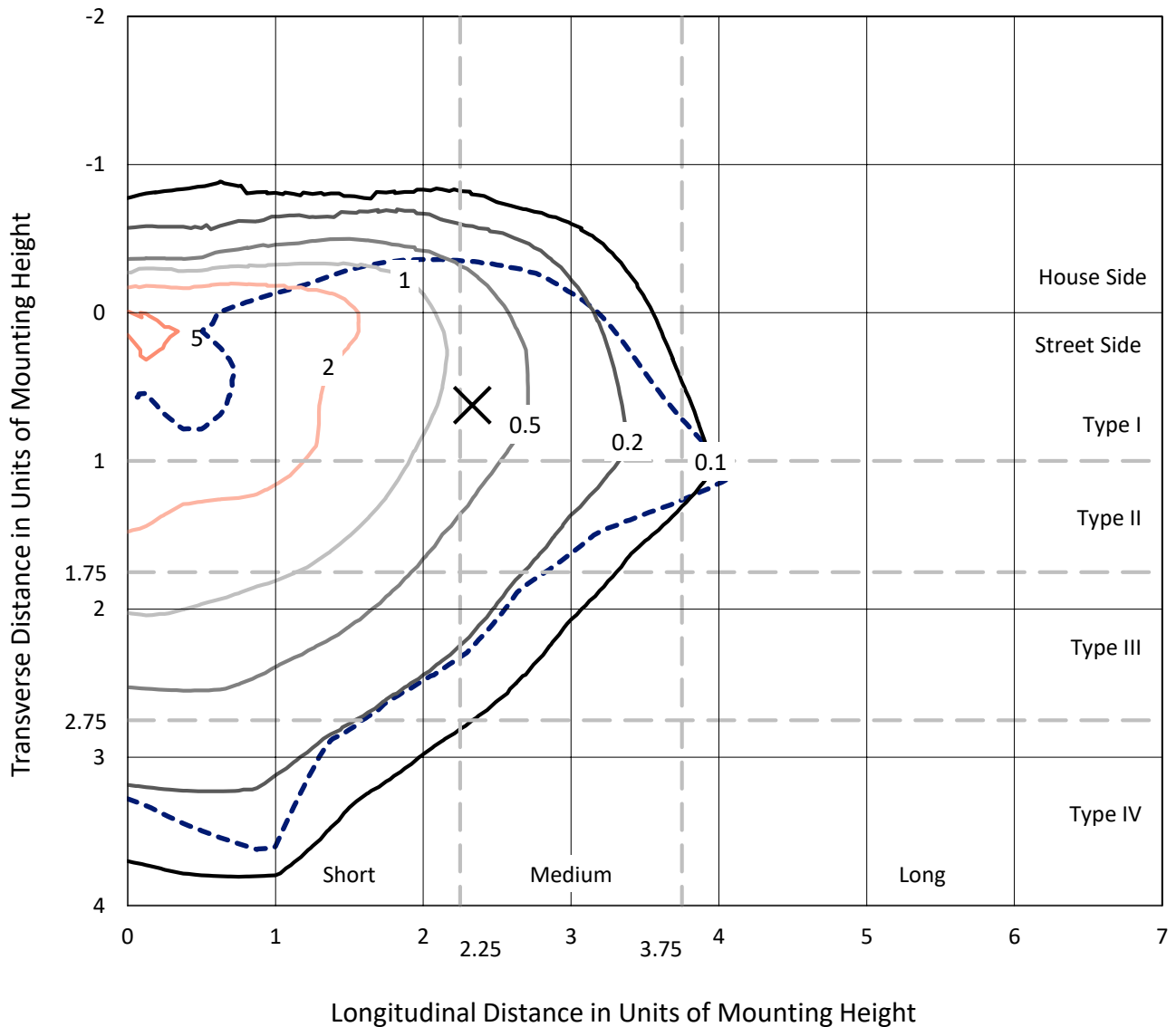
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

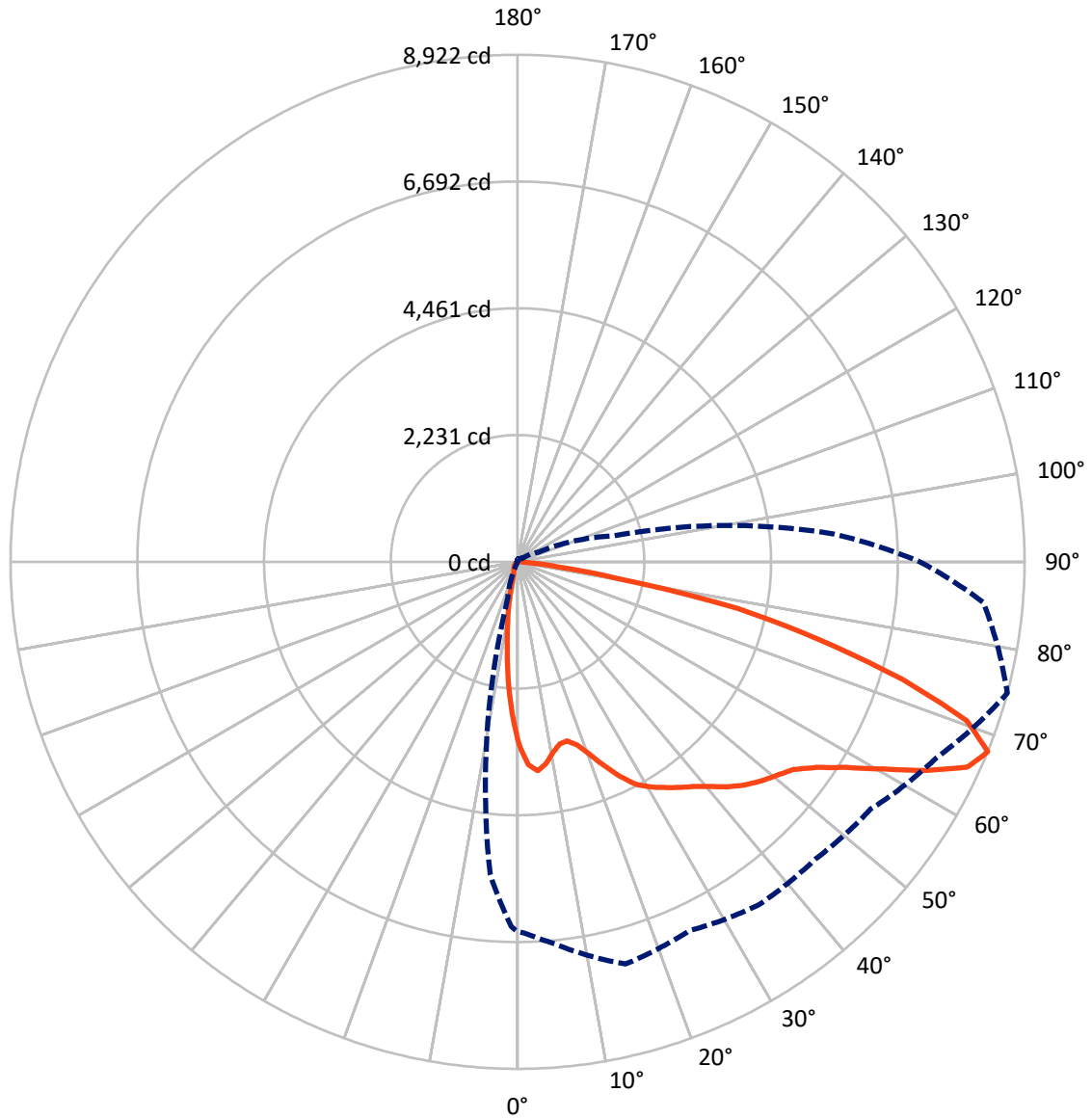
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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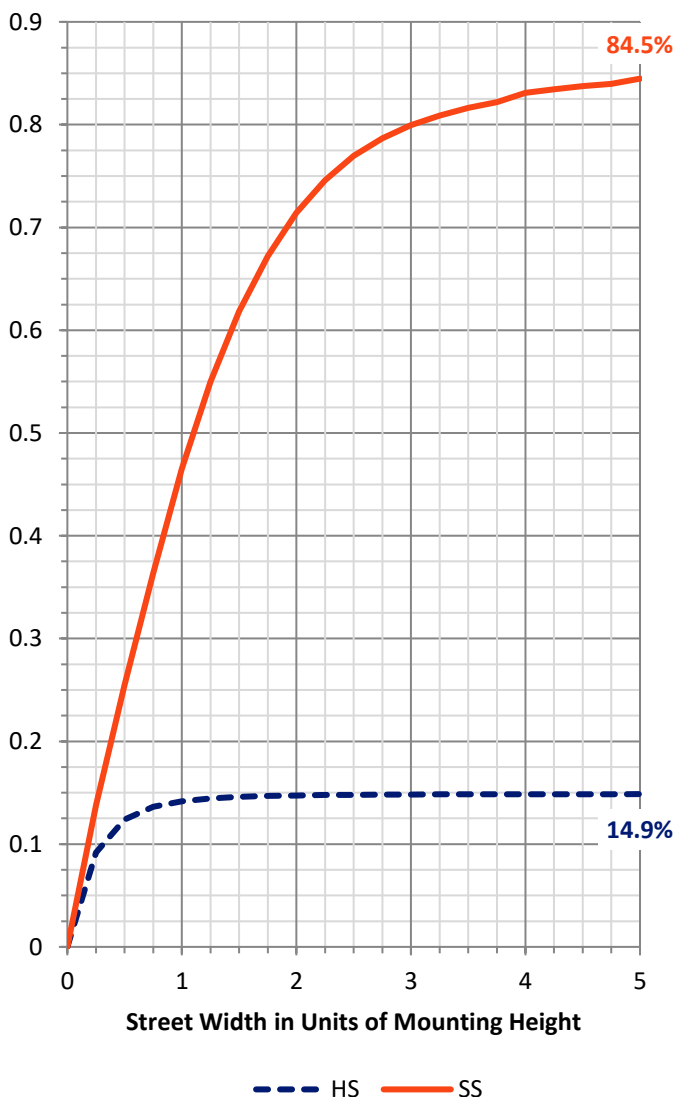
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1441.5	0.0	1441.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	8164.5	0.0	8164.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	9606.0	0.0	9606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.5	2.5
10°-20°	481.3	5.0
20°-30°	680.9	7.1
30°-40°	1001.2	10.4
40°-50°	1439.0	15.0
50°-60°	2025.8	21.1
60°-70°	2365.9	24.6
70°-80°	1207.0	12.6
80°-90°	160.3	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°	9606.0	100.0
0°-180°	9606.0	100.0

Coefficient of Utilization

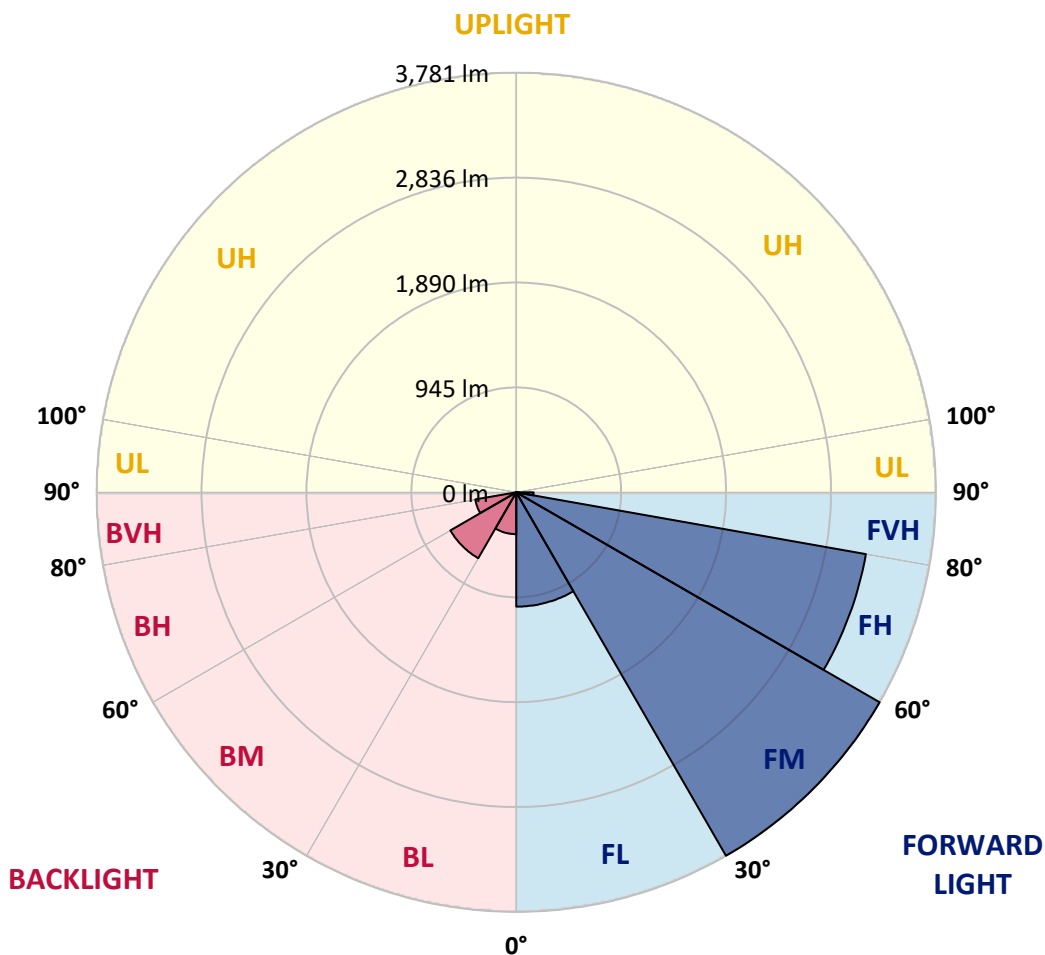


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1029.8	10.7			
FM (30°-60°)	3780.8	39.4			
FH (60°-80°)	3198.5	33.3			G2/5000
FVH (80°-90°)	155.5	1.6			G2/225
BL (0°-30°)	377.0	3.9	B1/500		
BM (30°-60°)	685.2	7.1	B1/1000		
BH (60°-80°)	374.4	3.9	B1/500		G1/500
BVH (80°-90°)	4.9	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°	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6
2.5°	3493.4	3498.9	3527.1	3592.6	3664.0	3669.5	3717.7	3668.1	3651.3	3571.2	3488.4
5°	3519.8	3540.7	3637.7	3830.1	3997.1	4050.8	4089.1	3991.7	3889.3	3693.6	3484.8
7.5°	3307.3	3342.3	3494.8	3856.1	4154.6	4286.6	4311.6	4159.1	3908.4	3586.2	3272.2
10°	3035.2	3075.2	3259.1	3703.2	4113.2	4339.3	4373.9	4174.2	3813.8	3412.4	3042.4
12.5°	2814.9	2861.8	3049.7	3531.2	3970.7	4221.0	4289.3	4123.6	3731.8	3289.1	2885.5
15°	2713.5	2767.1	2964.6	3420.1	3812.8	4009.9	4066.3	3994.9	3686.3	3269.5	2849.1
17.5°	2771.7	2829.9	3033.8	3429.7	3664.5	3748.7	3794.2	3823.3	3686.3	3387.4	2955.5
20°	3010.6	3073.4	3289.1	3526.6	3541.6	3510.2	3558.9	3661.3	3729.1	3611.3	3211.3
22.5°	3341.0	3414.7	3658.1	3692.7	3481.6	3362.8	3369.2	3529.8	3806.9	3895.2	3566.2
25°	3743.7	3833.8	4081.3	3940.3	3506.6	3275.0	3272.7	3421.5	3882.9	4179.6	3961.6
27.5°	4143.7	4242.9	4460.4	4242.4	3609.9	3259.1	3254.5	3388.7	3957.1	4432.6	4393.5
30°	4479.0	4575.5	4763.0	4461.3	3721.4	3296.4	3274.5	3423.8	4001.2	4596.9	4708.4
32.5°	4752.1	4829.4	4981.0	4611.9	3840.6	3368.7	3321.4	3517.5	4076.3	4735.7	4997.8
35°	5052.4	5133.8	5194.4	4755.2	3974.4	3472.9	3405.1	3666.3	4191.9	4876.7	5315.0
37.5°	5395.0	5476.0	5468.8	4886.3	4144.1	3645.4	3602.2	3902.0	4371.6	5016.4	5669.0
40°	5730.4	5813.2	5754.1	5029.6	4343.4	3929.8	3897.9	4256.1	4612.4	5195.3	6084.0
42.5°	6044.4	6134.0	6007.5	5165.2	4581.0	4288.4	4343.0	4712.0	4913.6	5415.5	6441.7
45°	6297.4	6388.9	6220.0	5297.2	4831.2	4723.4	4887.7	5217.1	5275.8	5601.6	6683.3
47.5°	6481.2	6567.7	6367.5	5429.2	5151.6	5255.3	5541.6	5746.8	5603.0	5763.2	6854.8
50°	6598.6	6666.0	6410.7	5594.4	5572.1	5876.0	6222.8	6322.9	5911.1	5908.8	7063.3
52.5°	6673.3	6703.8	6442.6	5766.8	6010.7	6551.8	6889.9	6921.3	6228.2	6069.0	7344.0
55°	6930.4	6955.0	6668.3	5975.7	6373.4	7143.8	7493.3	7464.1	6587.3	6382.5	7675.3
57.5°	7369.0	7395.0	7134.7	6276.0	6666.9	7509.7	7930.6	7982.9	7008.2	6823.0	8030.2
60°	7589.3	7637.5	7544.7	6656.4	6951.3	7743.5	8228.6	8395.6	7534.2	7403.6	8374.2
62.5°	7389.5	7459.6	7594.3	7078.3	7233.9	7872.3	8321.5	8543.5	8073.0	8080.3	8586.3
65°	6990.9	7046.9	7275.3	7309.4	7397.7	7856.4	8092.1	8336.9	8402.9	8701.9	8574.9
67.5°	6509.5	6530.4	6724.2	7327.6	7160.2	7377.7	7403.2	7584.3	8142.2	8922.1	8230.5
70°	5816.4	5827.8	5997.1	6718.3	6153.2	6200.9	6163.2	6200.0	7000.0	8385.6	7360.9
72.5°	4681.1	4709.7	4950.5	5579.3	4482.7	4344.8	4641.5	4625.1	5391.0	7084.6	5466.9
75°	3446.5	3496.1	3859.7	4494.1	3146.2	2845.9	3062.5	3120.3	3832.4	5480.1	3418.8
77.5°	2413.1	2450.0	2802.2	3303.6	2277.1	2035.0	1956.7	2025.4	2529.6	3964.4	1722.4
80°	1390.2	1403.8	1628.6	1907.6	1534.4	1755.6	1590.4	1637.7	1515.8	1763.8	740.8
82.5°	909.6	911.9	999.7	1135.3	955.6	1110.3	821.8	1050.7	932.4	708.5	241.2
85°	491.5	494.2	579.7	805.9	541.1	305.8	179.7	369.0	576.5	162.5	66.0
87.5°	54.2	49.6	174.7	293.1	150.2	27.8	9.6	41.4	92.4	10.5	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°	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6
2.5°	3446.1	3408.3	3314.1	3214.5	3134.4	3059.3	2983.7	2891.4	2819.9	2805.4	2781.7
5°	3372.4	3252.7	3055.2	2856.8	2697.1	2495.5	2367.6	2268.0	2170.6	2164.7	2145.1
7.5°	3114.8	2957.4	2679.3	2404.9	2180.1	1988.1	1794.3	1664.6	1562.6	1526.7	1505.3
10°	2867.3	2690.2	2343.0	2030.0	1829.3	1659.6	1523.0	1387.4	1264.6	1179.9	1141.7
12.5°	2694.3	2498.7	2116.0	1846.1	1702.3	1541.2	1374.7	1205.4	1063.9	962.0	899.6
15°	2627.4	2418.6	2040.0	1773.3	1595.9	1392.0	1179.0	985.6	828.6	736.3	680.3
17.5°	2707.1	2464.1	2034.1	1684.6	1436.6	1183.1	947.9	719.4	571.5	501.5	465.5
20°	2909.1	2608.8	2031.8	1575.8	1247.3	935.6	642.1	473.2	383.6	344.5	327.6
22.5°	3194.9	2793.5	2050.0	1468.4	1050.3	668.5	443.2	347.7	301.7	280.8	271.2
25°	3562.6	3052.9	2101.4	1371.1	865.0	498.7	345.4	291.2	258.9	242.5	235.7
27.5°	3954.4	3351.4	2181.5	1286.4	714.4	397.7	295.8	249.4	226.2	214.8	208.4
30°	4277.4	3697.3	2262.5	1192.2	605.2	346.7	270.8	227.5	200.7	193.4	187.5
32.5°	4560.0	3958.9	2319.8	1107.1	533.8	308.1	244.8	203.4	185.2	171.1	164.7
35°	4852.6	4176.9	2318.0	1047.5	484.6	278.9	223.0	182.0	160.2	143.8	138.8
37.5°	5169.3	4423.1	2278.4	996.6	463.2	255.7	210.7	170.6	148.8	132.4	126.0
40°	5540.2	4681.5	2237.9	948.8	457.3	237.1	202.0	161.5	138.3	122.4	116.0
42.5°	5901.5	4914.5	2202.4	913.3	431.8	236.6	194.3	154.7	130.1	114.7	107.4
45°	6190.5	5131.6	2195.6	891.9	405.0	244.8	190.2	150.2	123.8	108.3	101.5
47.5°	6430.7	5367.3	2239.3	876.9	379.5	223.4	200.2	147.0	117.9	102.8	95.1
50°	6716.5	5656.7	2342.1	852.3	352.7	201.1	229.3	147.9	112.9	97.4	89.2
52.5°	7115.1	6057.1	2493.2	810.9	315.8	180.7	225.7	148.8	107.4	91.5	83.3
55°	7562.0	6557.2	2655.7	742.2	264.4	153.8	193.4	142.4	96.9	85.1	77.4
57.5°	8031.6	7010.9	2752.1	660.3	210.2	132.9	154.7	129.7	85.5	76.4	71.4
60°	8105.3	7183.4	2708.0	559.7	167.0	115.6	114.7	132.0	76.4	67.3	63.7
62.5°	7921.9	6966.8	2494.6	470.1	139.7	101.5	94.2	115.1	69.2	60.1	56.4
65°	7569.3	6381.1	2148.7	423.6	129.7	86.9	78.3	81.0	60.5	52.3	49.1
67.5°	7078.7	5599.4	1764.2	397.3	128.3	74.6	66.9	61.4	52.3	45.5	42.8
70°	6075.8	4664.7	1407.5	382.7	124.7	62.8	56.4	50.1	43.7	38.7	36.4
72.5°	4471.8	3305.5	1094.8	366.8	125.6	50.1	49.1	41.4	35.0	30.0	29.1
75°	2583.8	1888.4	718.1	297.1	119.7	38.7	41.0	29.1	24.6	20.9	20.9
77.5°	1377.0	1151.7	273.5	123.8	43.7	24.6	23.2	17.3	15.5	12.7	12.3
80°	600.2	506.9	82.4	34.6	24.1	13.2	8.6	7.7	6.8	5.5	5.0
82.5°	212.5	183.4	26.8	16.8	10.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.2	34.6	0.0	4.1	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°	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6
2.5°	2733.5	2723.5	2664.3	2666.6	2677.0	2692.1	2656.6	2673.0	2717.1	2759.4	2775.3
5°	2113.7	2116.0	2080.0	2102.3	2122.3	2136.0	2078.7	2079.6	2114.6	2162.4	2187.4
7.5°	1489.4	1485.7	1487.6	1540.8	1578.6	1551.3	1572.6	1498.5	1503.0	1537.2	1511.7
10°	1107.1	1057.1	1028.9	1068.9	1110.3	1095.3	1058.4	1034.3	1051.2	1088.9	1086.2
12.5°	870.1	798.2	755.8	727.2	761.3	733.1	732.2	711.2	688.5	692.6	753.1
15°	654.4	602.0	552.0	506.0	505.1	495.5	446.9	392.3	387.7	390.4	421.8
17.5°	450.0	432.3	411.8	372.2	361.8	321.7	274.4	252.6	241.6	246.6	257.1
20°	316.3	309.4	311.7	290.3	275.3	237.1	209.3	200.7	198.9	203.9	208.9
22.5°	262.1	249.8	248.5	238.9	223.9	196.1	181.1	176.1	173.8	178.4	182.0
25°	229.3	217.1	212.1	206.1	190.2	171.1	162.0	157.4	155.2	157.9	160.2
27.5°	202.0	190.7	186.1	182.0	166.5	152.9	145.6	141.5	139.7	140.6	142.9
30°	181.6	171.6	165.6	160.6	147.4	137.9	131.5	127.4	125.6	125.6	127.9
32.5°	160.2	154.7	149.3	142.9	130.6	124.2	117.9	113.3	111.5	111.9	113.8
35°	133.3	131.5	132.9	127.0	116.5	111.0	104.7	99.7	98.3	98.7	100.6
37.5°	118.3	110.1	115.1	111.9	106.0	98.7	90.6	86.0	83.7	85.1	86.0
40°	108.8	98.7	95.1	98.3	97.4	85.5	78.3	73.7	71.9	72.4	73.3
42.5°	100.6	88.7	80.5	80.1	85.5	74.6	66.9	62.8	60.5	60.5	61.4
45°	92.8	80.1	70.1	62.3	71.9	63.3	56.0	52.3	49.6	49.6	50.1
47.5°	86.9	72.8	61.0	51.0	54.2	51.9	46.0	42.3	39.6	39.6	40.0
50°	81.5	65.5	52.8	42.8	40.5	42.8	37.3	33.2	31.4	30.9	31.9
52.5°	75.5	58.2	45.0	36.4	31.9	32.3	29.1	26.4	24.1	24.1	25.0
55°	69.6	52.3	39.1	30.9	26.4	24.1	23.2	21.4	19.6	19.6	20.5
57.5°	63.7	46.0	33.2	25.5	20.9	19.1	19.1	17.7	16.4	16.4	17.3
60°	58.2	39.6	27.3	20.9	16.4	15.9	16.4	15.0	14.1	14.1	15.0
62.5°	51.9	33.7	22.3	17.3	13.2	12.7	14.1	13.2	12.3	12.3	13.2
65°	44.1	28.7	17.7	13.2	10.0	10.0	11.8	10.9	10.0	10.0	10.9
67.5°	37.3	24.1	13.7	9.6	7.3	7.7	10.0	9.1	8.6	8.6	9.6
70°	30.9	18.7	9.6	5.9	4.1	5.9	7.7	7.7	7.7	7.7	8.6
72.5°	23.2	12.7	5.5	2.3	1.8	4.1	6.4	7.3	6.8	6.8	8.2
75°	15.0	7.3	1.8	0.0	0.0	2.3	5.0	5.9	5.9	5.5	6.8
77.5°	8.6	2.3	0.0	0.0	0.0	0.0	3.2	2.7	2.3	1.8	3.2
80°	2.3	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°	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6	3222.6
2.5°	2839.5	2893.2	2968.7	3048.8	3172.1	3270.0	3366.0	3448.4	3480.2	3493.4
5°	2247.5	2326.2	2436.8	2578.8	2801.3	3001.5	3204.4	3408.8	3497.5	3519.8
7.5°	1612.7	1713.3	1853.9	2031.8	2292.5	2551.9	2835.4	3135.3	3272.7	3307.3
10°	1193.6	1316.5	1477.5	1665.0	1913.9	2180.6	2489.6	2832.2	2989.2	3035.2
12.5°	846.8	1012.9	1228.6	1456.6	1672.3	1910.3	2222.9	2600.6	2765.3	2814.9
15°	497.4	658.0	913.3	1218.6	1494.8	1736.0	2053.6	2481.8	2663.4	2713.5
17.5°	285.3	365.4	558.3	898.7	1273.7	1607.7	2000.4	2511.4	2725.3	2771.7
20°	218.0	243.5	321.7	578.8	1015.2	1481.6	2000.4	2678.9	2942.3	3010.6
22.5°	190.7	209.3	241.2	345.4	747.2	1346.5	2023.6	2921.0	3265.4	3341.0
25°	169.3	186.1	213.4	259.8	509.7	1185.9	2078.7	3218.1	3645.8	3743.7
27.5°	151.5	167.5	192.0	227.5	348.6	992.0	2152.8	3566.7	4065.4	4143.7
30°	135.6	150.6	172.9	197.9	268.9	772.2	2216.1	3895.2	4394.9	4479.0
32.5°	120.6	134.2	154.3	172.9	220.2	571.1	2222.9	4155.5	4668.3	4752.1
35°	106.5	118.8	137.0	151.5	182.5	451.0	2116.9	4381.2	4941.8	5052.4
37.5°	92.8	104.7	120.6	131.5	160.6	367.7	1954.9	4632.8	5292.7	5395.0
40°	80.1	90.6	106.9	114.2	152.0	282.6	1778.8	4896.8	5636.7	5730.4
42.5°	68.3	78.3	94.2	108.3	133.3	211.1	1588.6	5144.3	5946.1	6044.4
45°	56.9	67.3	83.3	114.7	110.6	157.9	1385.2	5308.6	6190.5	6297.4
47.5°	46.0	57.8	79.6	109.2	88.3	116.0	1224.1	5464.2	6375.7	6481.2
50°	36.9	48.7	89.6	97.4	72.4	88.7	1156.7	5603.5	6497.2	6598.6
52.5°	30.0	41.0	84.6	74.6	60.5	73.3	1193.1	5829.2	6609.6	6673.3
55°	25.0	32.3	51.0	51.9	51.4	62.3	1238.2	6153.2	6900.3	6930.4
57.5°	21.8	25.9	35.5	40.0	43.2	55.5	1239.1	6618.2	7350.4	7369.0
60°	18.7	22.8	29.6	32.3	37.3	49.6	1194.0	6780.7	7527.4	7589.3
62.5°	16.4	20.0	24.6	26.8	31.4	44.6	1088.5	6545.4	7284.4	7389.5
65°	14.6	18.2	20.5	22.8	27.8	40.0	914.6	6074.9	6881.2	6990.9
67.5°	12.7	15.9	18.2	20.5	25.0	35.5	673.5	5528.4	6418.4	6509.5
70°	11.4	14.1	16.4	18.2	21.8	30.0	408.6	4691.1	5778.7	5816.4
72.5°	10.9	12.7	15.0	16.4	19.1	26.4	207.0	3447.4	4619.6	4681.1
75°	9.6	11.4	13.7	14.6	16.8	22.8	84.2	2264.3	3347.8	3446.5
77.5°	7.7	10.5	12.3	13.2	14.6	18.7	42.8	1447.1	2349.4	2413.1
80°	2.7	7.7	10.5	10.9	12.3	13.7	28.2	792.2	1362.9	1390.2
82.5°	0.0	5.0	8.2	7.7	8.6	10.5	18.2	376.8	899.6	909.6
85°	0.0	2.3	6.4	5.0	3.6	7.3	6.4	82.4	471.9	491.5
87.5°	0.0	0.0	0.5	2.3	1.8	2.7	0.9	0.5	42.8	54.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)