

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: P324416

Luminaire Tested: **GAN-SA2D-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324416
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-SA2D-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 9842 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

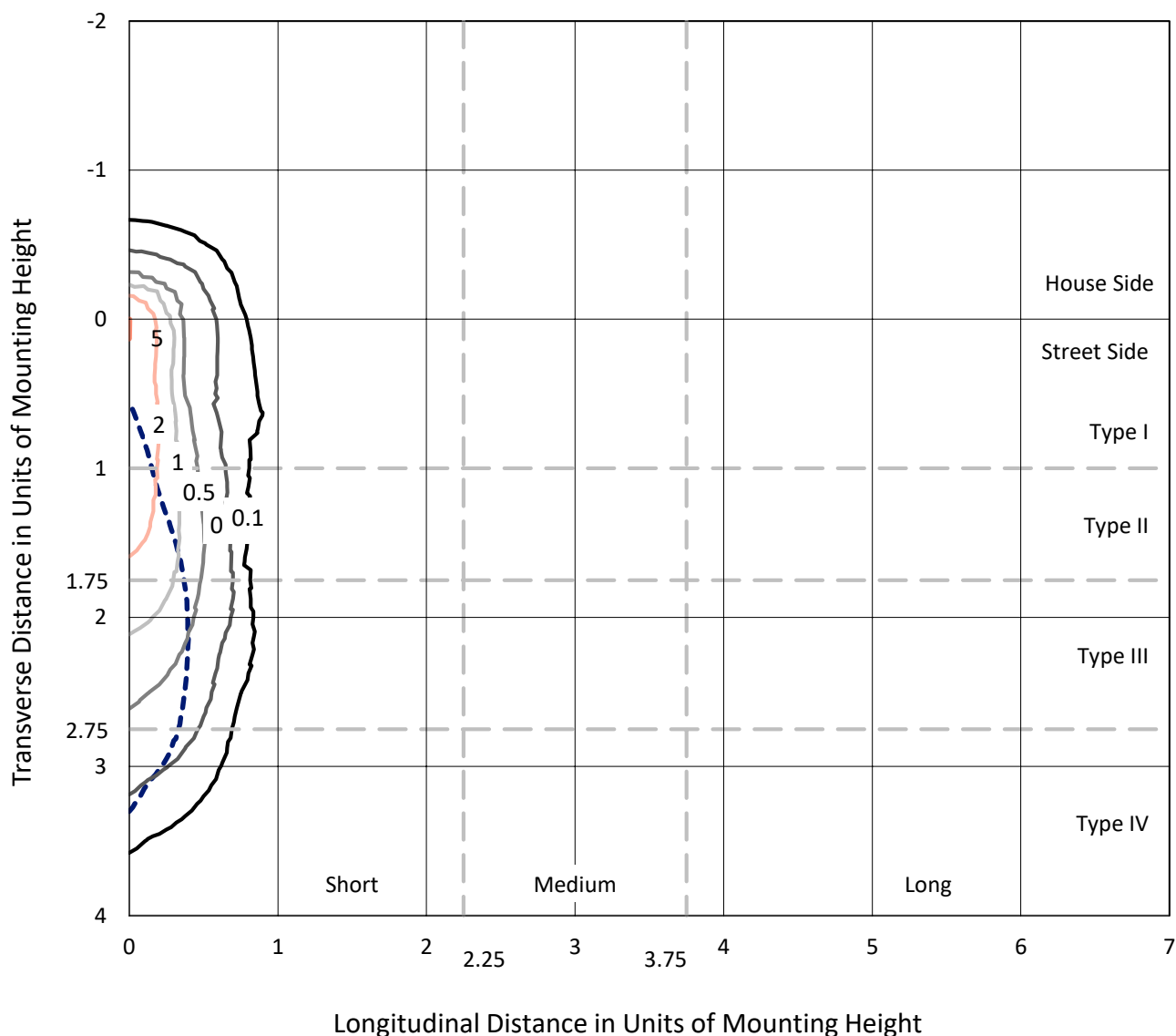
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

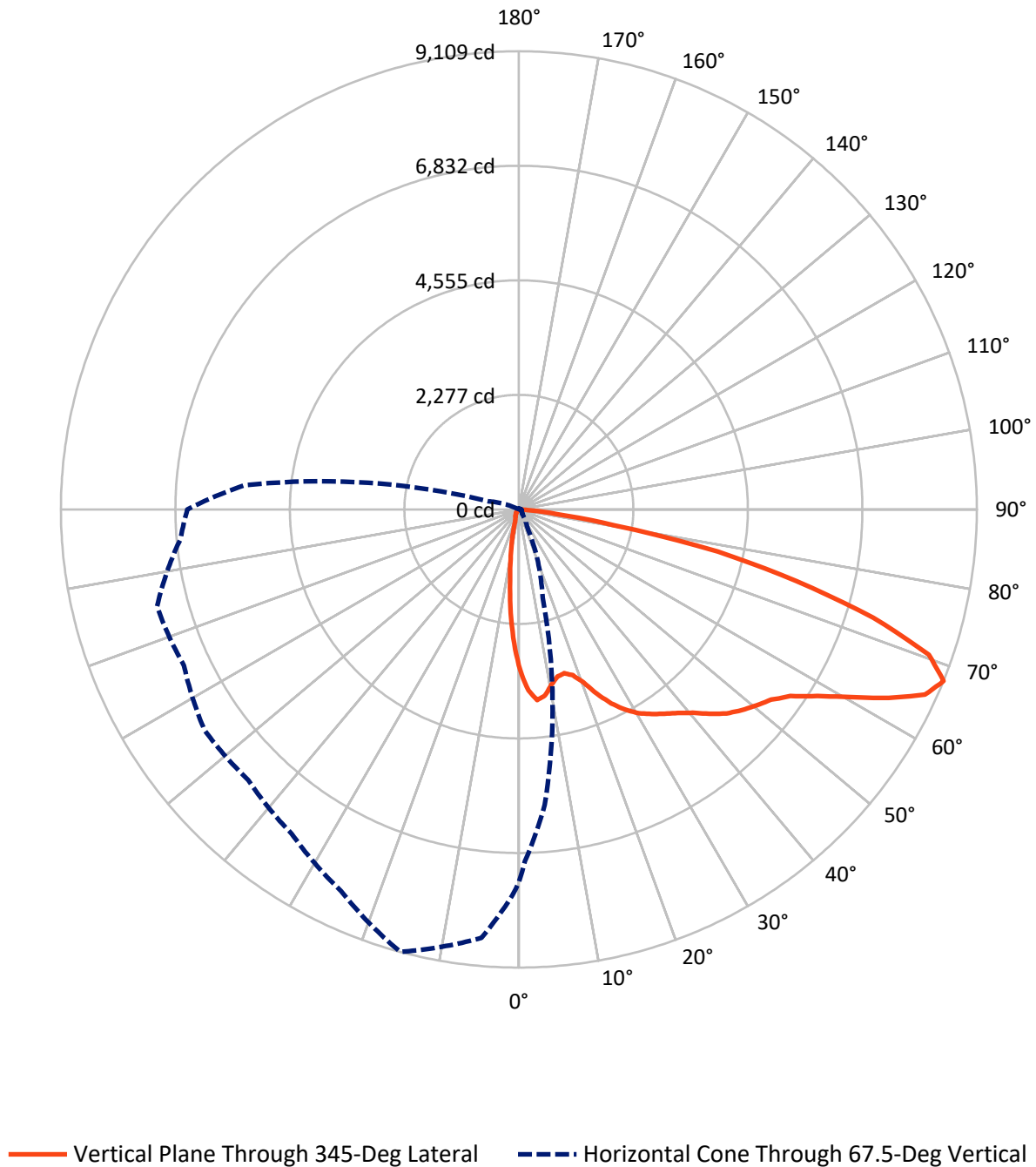
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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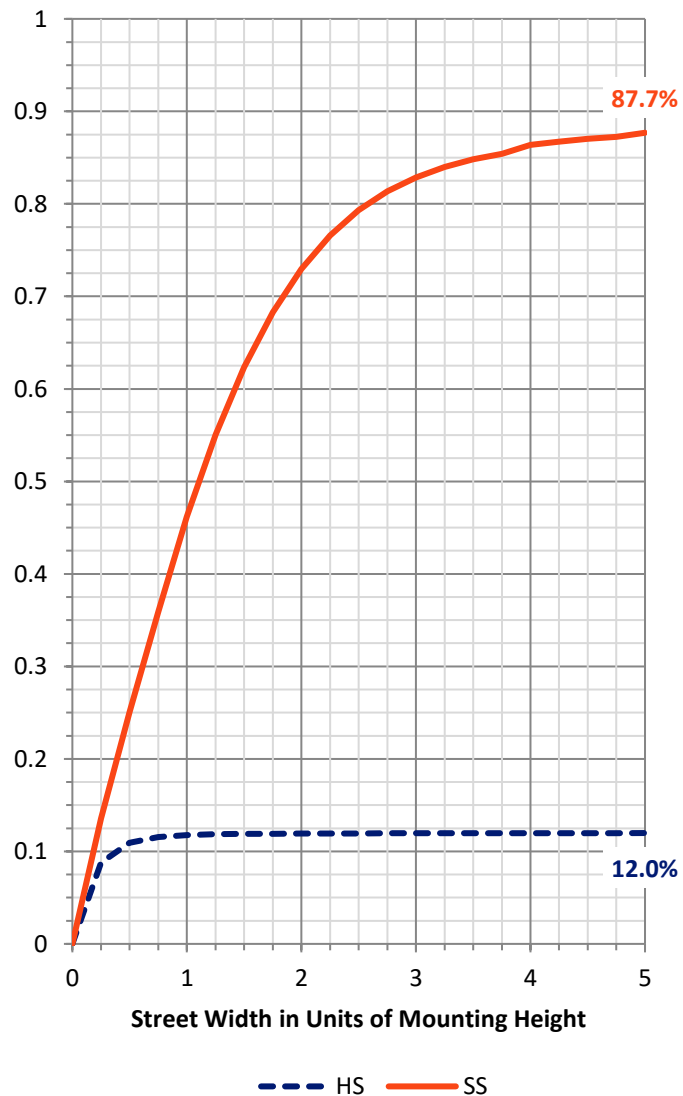
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1191.2	0.0	1191.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	8650.8	0.0	8650.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	9842.0	0.0	9842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.1	2.5
10°-20°	489.8	5.0
20°-30°	695.5	7.1
30°-40°	1027.3	10.4
40°-50°	1481.5	15.1
50°-60°	2079.8	21.1
60°-70°	2424.4	24.6
70°-80°	1239.4	12.6
80°-90°	158.3	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°	9842.0	100.0
0°-180°	9842.0	100.0

Coefficient of Utilization



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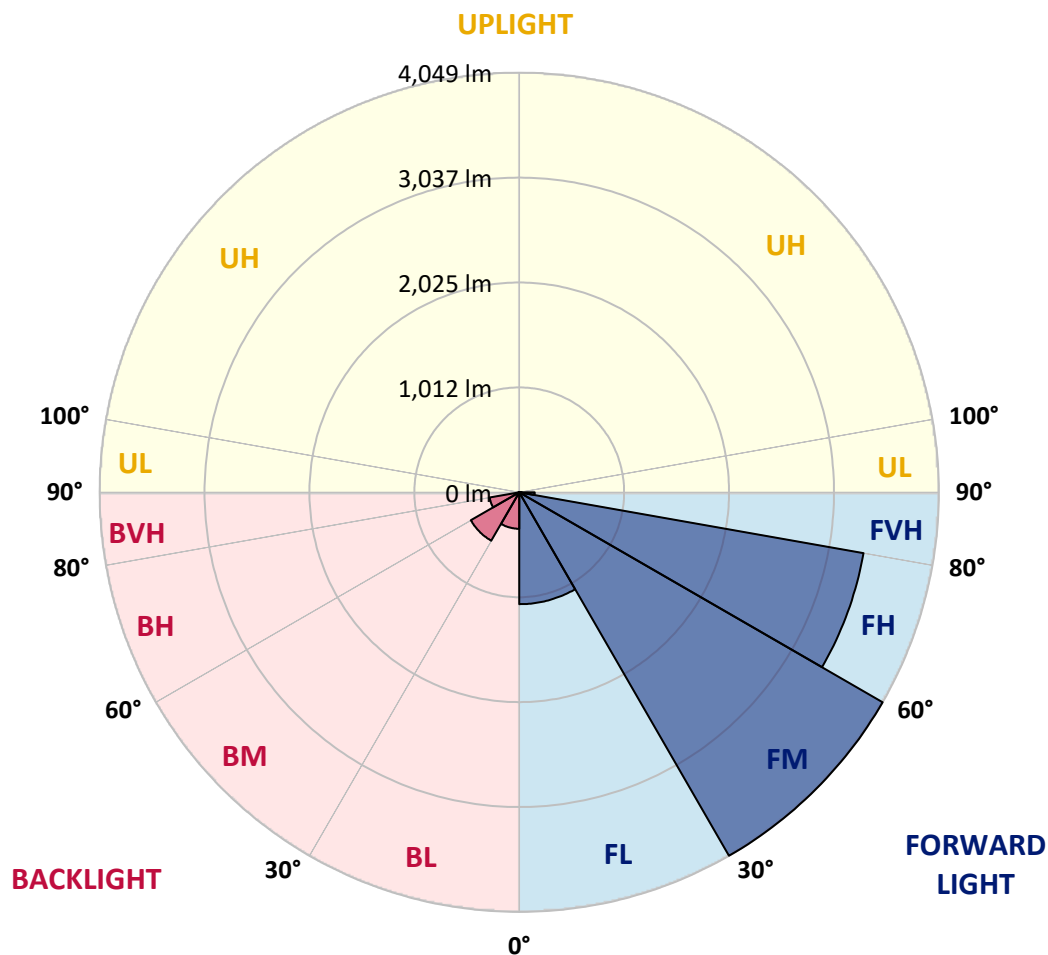
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1079.5	11.0			
FM	(30°-60°)	4049.2	41.1			
FH	(60°-80°)	3373.5	34.3			G2/5000
FVH	(80°-90°)	148.7	1.5			G2/225
BL	(0°-30°)	351.8	3.6	B1/500		
BM	(30°-60°)	539.4	5.5	B1/1000		
BH	(60°-80°)	290.3	2.9	B1/500		G1/500
BVH	(80°-90°)	9.6	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°	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0
2.5°	3510.5	3483.4	3453.6	3356.1	3265.7	3162.2	3077.8	3019.0	2945.4	2849.8	2825.5
5°	3485.3	3456.4	3362.7	3145.9	2956.1	2771.5	2593.3	2488.9	2359.3	2227.8	2195.2
7.5°	3232.1	3201.8	3066.6	2769.6	2514.1	2247.4	2016.1	1873.0	1726.6	1606.3	1542.4
10°	2968.7	2935.6	2783.6	2423.2	2108.4	1867.4	1697.7	1561.0	1422.6	1293.9	1191.3
12.5°	2787.3	2743.9	2578.9	2170.4	1896.3	1732.6	1574.1	1410.4	1223.0	1085.0	972.2
15°	2711.3	2661.9	2487.5	2073.0	1821.2	1629.1	1422.6	1221.6	1002.0	843.9	740.4
17.5°	2770.1	2705.7	2518.7	2066.5	1727.0	1465.5	1204.4	968.4	730.2	570.2	496.6
20°	2969.6	2885.2	2647.9	2064.6	1612.8	1271.0	940.0	673.3	481.2	387.0	348.3
22.5°	3283.9	3172.4	2833.5	2079.5	1494.8	1066.8	678.9	457.4	361.4	312.4	289.5
25°	3663.4	3534.3	3100.6	2132.2	1391.3	868.2	493.3	361.4	304.9	269.0	249.9
27.5°	4024.3	3919.4	3438.2	2208.2	1311.1	707.8	400.5	306.3	260.6	236.9	221.5
30°	4384.7	4252.8	3784.6	2298.7	1214.6	599.1	352.0	279.3	233.6	208.4	198.6
32.5°	4646.8	4537.2	4056.0	2363.9	1111.6	528.3	314.7	255.5	218.2	192.6	178.1
35°	4955.0	4830.9	4288.7	2378.4	1045.4	483.5	283.0	229.9	189.3	166.5	151.1
37.5°	5287.9	5133.5	4557.2	2346.7	993.6	461.6	259.2	218.2	176.7	153.4	137.1
40°	5656.2	5481.8	4815.1	2301.0	942.8	454.1	241.1	209.4	166.9	143.1	126.4
42.5°	6044.1	5838.5	5038.4	2253.0	910.6	428.5	239.2	200.5	159.5	133.8	117.0
45°	6370.1	6161.6	5267.8	2237.1	887.8	400.5	247.1	194.4	154.3	126.4	110.0
47.5°	6629.8	6432.5	5502.8	2272.6	874.7	374.9	225.2	202.4	151.5	119.8	104.0
50°	6939.8	6716.5	5833.9	2378.4	855.6	349.2	203.8	231.7	151.5	115.6	98.8
52.5°	7328.7	7107.7	6203.1	2542.5	817.4	313.8	183.2	232.2	152.9	110.0	92.3
55°	7817.8	7657.4	6730.5	2722.5	756.3	261.6	158.5	199.6	147.3	99.8	86.3
57.5°	8286.9	8155.8	7211.2	2845.6	674.7	204.2	138.0	160.9	134.7	87.7	76.9
59°	8415.1	8271.9	7387.4	2851.2	613.6	178.1	127.8	132.9	132.0	82.1	71.3
60°	8415.1	8263.1	7438.3	2821.3	569.3	163.7	121.2	118.4	137.5	78.3	68.1
62.5°	8262.6	8049.1	7273.2	2619.5	464.4	139.4	105.8	97.9	123.6	70.4	60.1
65°	7945.6	7634.6	6710.9	2254.4	414.0	127.8	91.4	80.2	85.8	62.0	52.7
67.5°	7416.8	6995.3	5900.1	1821.2	394.0	124.5	78.8	68.1	64.8	53.2	46.2
70°	6485.7	6018.0	4915.8	1431.9	376.7	123.1	66.2	57.4	52.2	44.8	39.2
72.5°	4720.4	4232.7	3490.0	1119.5	366.5	125.9	53.2	48.0	42.9	35.0	30.3
75°	2700.1	2380.7	1961.6	739.5	312.4	120.3	41.0	40.1	30.8	25.2	21.0
77.5°	1395.1	1352.6	1175.4	284.0	149.7	52.7	27.0	23.3	18.2	15.4	12.6
80°	601.9	595.4	515.2	82.1	39.6	29.4	15.4	9.8	8.4	6.5	5.1
82.5°	208.0	208.0	183.2	27.5	17.7	14.5	1.9	0.0	0.0	0.0	0.0
85°	42.0	47.1	33.1	0.0	6.1	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°	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0
2.5°	2796.2	2739.8	2736.0	2700.6	2656.3	2636.2	2624.6	2645.1	2670.3	2673.1	2710.8
5°	2170.4	2111.2	2135.9	2073.0	2085.6	2073.0	2052.5	2056.2	2067.4	2032.4	2075.8
7.5°	1524.2	1479.4	1507.9	1491.1	1513.5	1522.3	1509.8	1491.1	1436.1	1429.6	1467.3
10°	1148.9	1098.0	1067.7	1036.0	1043.0	1057.5	1052.8	1039.3	1004.3	1006.2	1042.6
12.5°	923.2	866.3	806.2	728.3	709.2	719.9	709.2	701.3	667.7	670.5	702.7
15°	700.3	653.7	590.8	528.3	494.2	497.5	467.7	446.7	425.7	400.5	420.1
17.5°	472.8	444.3	425.7	407.0	366.5	357.2	319.4	278.8	263.0	251.3	259.7
20°	334.8	319.4	311.9	311.0	287.7	276.0	239.2	214.0	206.1	203.8	208.9
22.5°	279.8	268.6	257.8	251.8	240.1	226.6	198.6	186.0	180.4	177.6	181.4
25°	243.4	235.0	223.8	213.5	208.9	194.4	174.4	165.1	161.3	158.5	160.4
27.5°	216.3	208.9	195.8	189.3	185.6	173.0	155.7	148.3	145.0	144.1	143.6
30°	194.9	187.9	175.8	168.3	161.8	150.6	140.3	132.9	129.6	128.7	127.8
32.5°	173.4	167.9	159.9	152.5	145.5	135.2	126.4	120.3	115.2	114.2	113.8
35°	146.4	140.8	136.6	136.1	129.6	119.8	113.3	105.4	101.2	99.8	100.2
37.5°	130.1	122.6	113.3	116.6	114.7	107.7	98.8	90.9	86.7	85.8	85.8
40°	119.8	111.9	101.2	95.6	101.2	99.8	85.8	77.9	73.7	73.2	72.3
42.5°	110.0	102.1	90.0	80.7	83.5	87.7	74.1	66.7	62.5	61.5	60.1
45°	103.0	94.7	81.1	70.4	64.8	73.7	63.4	54.1	51.8	49.9	49.0
47.5°	96.5	88.6	73.2	61.1	51.8	53.2	50.8	44.3	41.5	39.6	39.2
50°	90.9	82.5	66.2	52.2	42.9	39.2	41.0	35.0	32.6	30.8	29.8
52.5°	84.4	76.5	58.7	45.2	35.9	30.8	31.2	27.5	25.2	23.8	23.3
55°	79.3	71.3	52.7	39.6	31.7	25.2	22.4	21.4	20.0	19.1	18.7
57.5°	72.3	64.8	46.6	33.6	27.0	20.5	17.3	17.3	16.8	15.9	15.4
59°	68.1	61.5	42.9	30.3	24.7	17.7	15.4	15.9	15.4	14.5	14.0
60°	64.8	58.7	40.1	28.0	23.3	16.3	14.0	14.9	14.5	13.5	13.1
62.5°	57.4	53.2	34.5	23.3	20.5	13.1	11.7	12.6	12.6	12.1	11.7
65°	50.4	45.7	29.4	19.6	19.1	11.2	9.3	11.2	11.7	10.7	9.8
67.5°	43.8	39.2	25.6	15.9	17.7	8.9	7.0	9.3	12.6	9.8	8.9
70°	37.3	32.6	20.0	12.6	18.7	6.1	5.6	8.4	14.9	10.7	8.4
72.5°	28.9	25.2	14.0	9.3	20.0	4.2	4.2	7.0	16.8	11.7	7.9
75°	20.0	16.3	8.4	5.6	16.3	2.8	2.8	6.5	15.9	10.7	7.5
77.5°	11.7	8.9	2.8	0.5	8.4	0.0	0.5	4.7	11.2	6.5	3.3
80°	4.2	1.9	0.0	0.0	5.1	0.0	0.0	0.0	0.9	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°	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0
2.5°	2720.6	2783.6	2840.0	2925.3	3026.5	3143.1	3243.3	3351.0	3452.2	3494.2	3523.1
5°	2084.7	2162.5	2253.4	2378.9	2545.8	2751.4	2944.0	3161.7	3395.8	3512.8	3622.9
7.5°	1473.9	1553.1	1666.0	1799.3	2001.2	2246.0	2497.8	2798.5	3115.6	3300.7	3483.0
10°	1059.8	1157.3	1262.6	1444.9	1650.1	1882.3	2141.5	2477.2	2830.7	3035.8	3255.4
12.5°	721.3	832.3	991.7	1196.0	1437.0	1664.6	1889.8	2210.1	2620.4	2823.7	3059.1
15°	432.7	494.2	663.0	899.4	1195.0	1478.5	1725.2	2046.4	2483.8	2732.8	2977.5
17.5°	266.7	295.1	387.0	581.0	891.5	1250.0	1588.1	1990.9	2503.4	2806.4	3068.5
20°	212.6	223.8	253.2	343.2	590.8	998.3	1433.8	1979.7	2663.3	3036.3	3317.4
22.5°	184.6	195.4	214.9	249.4	371.6	747.4	1287.3	1990.0	2892.7	3380.9	3709.1
25°	162.7	172.1	190.7	219.1	272.3	526.4	1130.7	2035.7	3191.6	3808.4	4157.2
27.5°	145.5	153.4	170.7	196.8	233.6	367.4	953.0	2091.2	3545.9	4245.8	4589.9
30°	129.6	136.6	152.0	176.2	202.8	282.6	758.1	2128.9	3900.7	4589.9	4899.0
32.5°	116.1	121.2	135.2	155.7	176.2	225.2	576.3	2122.9	4164.2	4876.2	5121.4
35°	102.1	107.2	119.4	137.1	153.4	186.0	453.2	2009.6	4393.6	5173.2	5376.0
37.5°	86.7	93.3	104.9	120.8	132.0	163.7	366.5	1873.0	4626.2	5512.6	5659.9
40°	73.7	80.2	90.5	107.7	114.7	155.3	281.6	1706.5	4887.8	5892.1	5971.4
42.5°	61.1	67.1	77.9	92.8	108.2	133.8	208.4	1516.3	5139.1	6216.7	6255.4
45°	49.4	55.5	66.7	81.6	115.6	111.0	161.3	1312.5	5342.0	6486.6	6499.2
47.5°	39.2	44.8	56.4	76.9	107.7	88.6	115.2	1152.6	5512.1	6697.4	6664.3
50°	30.3	35.0	47.1	88.1	94.2	73.2	87.2	1099.4	5664.6	6827.9	6742.1
52.5°	23.8	28.0	38.7	82.5	73.2	60.6	73.2	1149.3	5873.5	6936.1	6786.0
55°	19.1	23.3	30.3	47.1	49.9	51.3	62.5	1196.0	6233.9	7189.8	7044.7
57.5°	15.9	20.0	24.7	33.1	37.8	43.4	55.5	1201.1	6658.7	7611.3	7474.2
59°	14.5	18.2	22.4	29.4	33.1	39.6	52.2	1173.1	6808.3	7764.7	7696.1
60°	13.5	17.3	21.0	27.0	30.8	37.3	50.4	1146.5	6814.9	7759.1	7790.8
62.5°	11.7	15.4	18.7	22.8	26.1	31.7	45.2	1048.2	6538.8	7504.9	7733.9
65°	10.3	13.5	16.8	19.6	22.4	28.4	41.0	868.6	6067.5	7095.1	7344.5
67.5°	9.3	11.7	15.4	17.3	20.0	25.2	36.4	619.2	5478.6	6593.9	6755.7
70°	8.4	11.2	14.0	15.9	18.2	21.9	31.2	355.8	4626.2	5860.0	5975.1
72.5°	7.9	10.7	12.6	14.9	16.3	19.6	28.4	167.4	3387.4	4694.3	4995.1
75°	7.0	9.8	11.7	14.0	15.4	17.7	24.2	80.2	2253.0	3397.2	3739.0
77.5°	4.2	7.9	10.7	12.6	13.5	15.4	20.0	46.2	1438.0	2351.4	2769.6
80°	0.0	2.8	7.9	10.7	11.7	13.1	15.4	36.4	769.3	1343.3	1612.3
82.5°	0.0	0.0	5.6	8.4	7.9	8.9	11.7	22.8	346.9	878.0	989.4
85°	0.0	0.0	1.9	6.5	5.6	4.2	7.9	7.9	76.0	444.3	554.4
87.5°	0.0	0.0	0.0	0.5	2.8	1.9	3.3	0.9	0.5	33.1	134.3
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°	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0
2.5°	3624.2	3658.8	3717.0	3744.5	3731.0	3673.7	3605.1	3535.2	3494.2	3510.5
5°	3847.1	4024.8	4127.3	4161.4	4104.5	3975.8	3807.5	3585.6	3506.8	3485.3
7.5°	3847.1	4181.4	4393.1	4430.4	4303.6	4051.3	3735.7	3389.3	3274.1	3232.1
10°	3711.9	4167.0	4462.1	4521.3	4344.2	3967.0	3544.1	3148.7	3012.0	2968.7
12.5°	3559.4	4049.5	4360.5	4442.1	4296.6	3883.0	3411.2	2985.9	2825.1	2787.3
15°	3465.7	3904.9	4162.3	4221.5	4160.0	3834.1	3379.5	2937.0	2747.7	2711.3
17.5°	3499.3	3793.0	3885.8	3920.3	3961.8	3816.8	3465.7	3044.2	2804.6	2770.1
20°	3625.6	3675.1	3627.0	3670.4	3782.3	3833.6	3671.3	3303.5	3015.8	2969.6
22.5°	3840.1	3614.0	3479.2	3496.5	3632.6	3889.1	3985.6	3673.7	3341.7	3283.9
25°	4090.0	3663.4	3397.2	3381.8	3521.7	3962.3	4272.8	4076.5	3727.3	3663.4
27.5°	4404.3	3774.4	3380.4	3365.0	3483.0	4030.8	4511.5	4474.7	4133.4	4024.3
30°	4646.8	3883.5	3430.3	3394.8	3521.7	4078.4	4703.2	4812.7	4457.0	4384.7
32.5°	4820.7	4012.2	3511.4	3460.1	3630.8	4160.5	4851.0	5122.3	4756.3	4646.8
35°	4953.1	4152.1	3642.4	3558.0	3780.9	4284.9	4989.5	5452.0	5074.8	4955.0
37.5°	5077.1	4348.4	3847.1	3746.4	4016.4	4485.4	5135.9	5825.9	5431.0	5287.9
40°	5250.1	4570.8	4162.8	4073.3	4412.2	4758.7	5318.6	6215.7	5836.2	5656.2
42.5°	5423.1	4809.5	4485.9	4510.1	4906.0	5090.6	5554.6	6627.9	6236.2	6044.1
45°	5581.1	5055.7	4946.1	5058.0	5364.3	5454.8	5789.1	6866.2	6555.6	6370.1
47.5°	5722.0	5363.4	5403.5	5701.4	5885.6	5784.4	5964.4	7071.8	6793.4	6629.8
50°	5885.6	5761.6	6006.4	6427.9	6485.7	6082.8	6123.9	7315.2	7071.3	6939.8
52.5°	6064.7	6181.2	6674.1	7045.7	7027.0	6406.9	6284.3	7587.9	7452.3	7328.7
55°	6268.0	6520.2	7262.0	7623.8	7608.0	6768.7	6550.0	7925.0	7929.7	7817.8
57.5°	6569.6	6812.1	7661.1	8091.5	8118.1	7186.5	7000.4	8302.7	8361.5	8286.9
59°	6786.0	7001.4	7819.2	8286.9	8395.0	7509.6	7329.6	8521.9	8483.2	8415.1
60°	6946.4	7121.7	7897.5	8389.0	8555.9	7728.7	7572.6	8650.5	8497.6	8415.1
62.5°	7343.2	7383.7	8038.8	8504.6	8741.0	8215.5	8256.1	8869.7	8397.4	8262.6
65°	7528.3	7549.2	8036.9	8297.6	8562.0	8594.6	8876.2	8876.2	8152.6	7945.6
67.5°	7450.9	7349.7	7638.3	7611.3	7875.2	8369.4	9109.3	8550.8	7684.5	7416.8
70°	6821.4	6432.1	6303.9	6315.5	6517.4	7279.7	8647.7	7593.1	6798.6	6485.7
72.5°	5675.8	4741.9	4425.3	4786.6	4839.3	5594.7	7369.7	5718.2	5013.7	4720.4
75°	4565.2	3342.6	2827.9	3209.3	3298.8	4094.2	5701.0	3561.3	2928.6	2700.1
77.5°	3279.7	2399.4	2029.2	2002.6	2118.2	2596.6	4045.3	1792.3	1494.8	1395.1
80°	1863.2	1579.2	1700.5	1604.4	1662.7	1623.5	1921.9	786.1	643.9	601.9
82.5°	1124.6	933.5	1010.9	841.6	1064.9	927.4	740.4	251.8	218.7	208.0
85°	731.6	510.1	265.8	178.1	366.9	592.6	165.5	68.5	52.7	42.0
87.5°	252.2	130.1	13.1	5.6	39.2	110.5	6.1	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)