

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: P324406

Luminaire Tested: **GAN-SA2C-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324406
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-SA2C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 8971 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

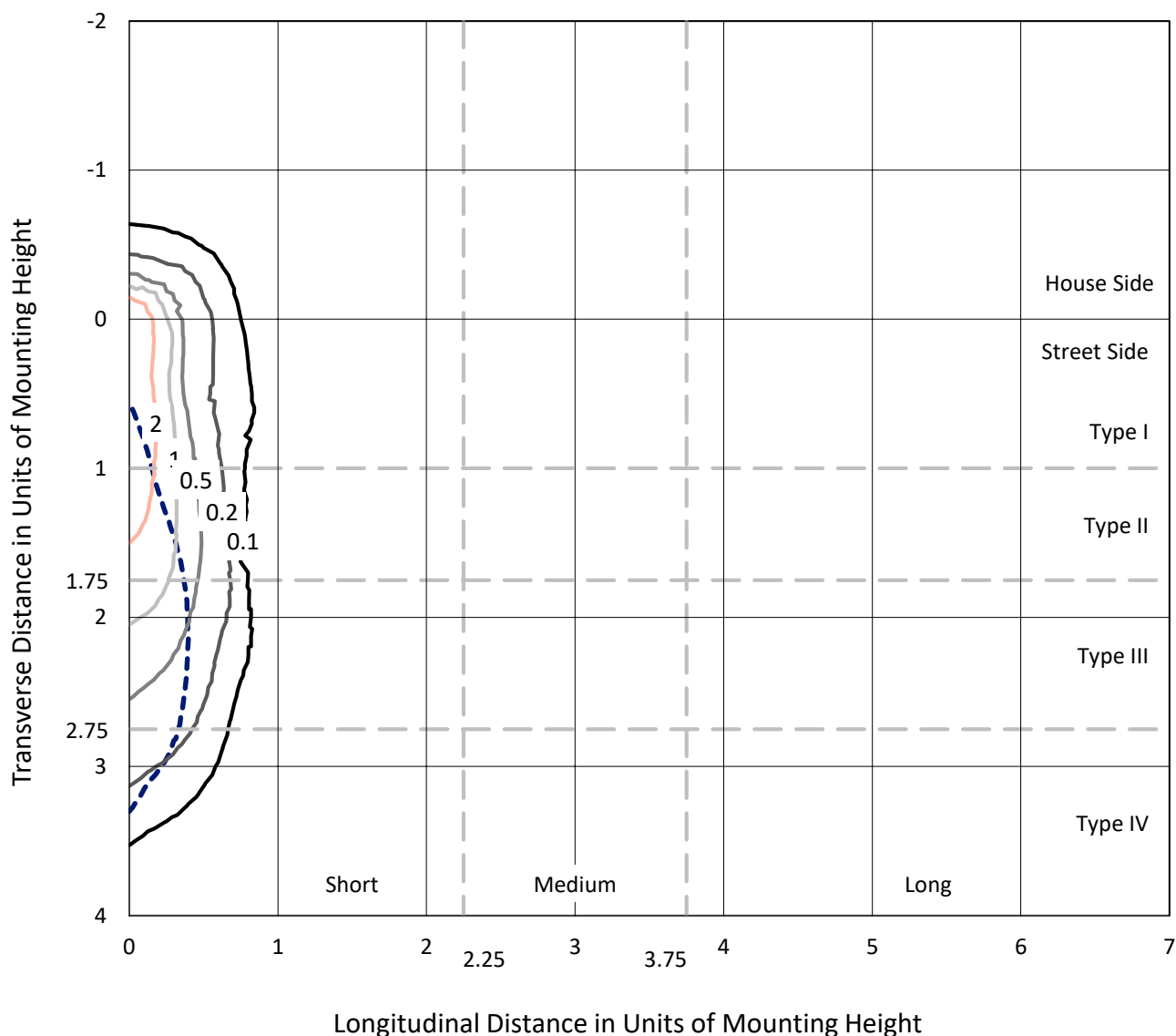
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

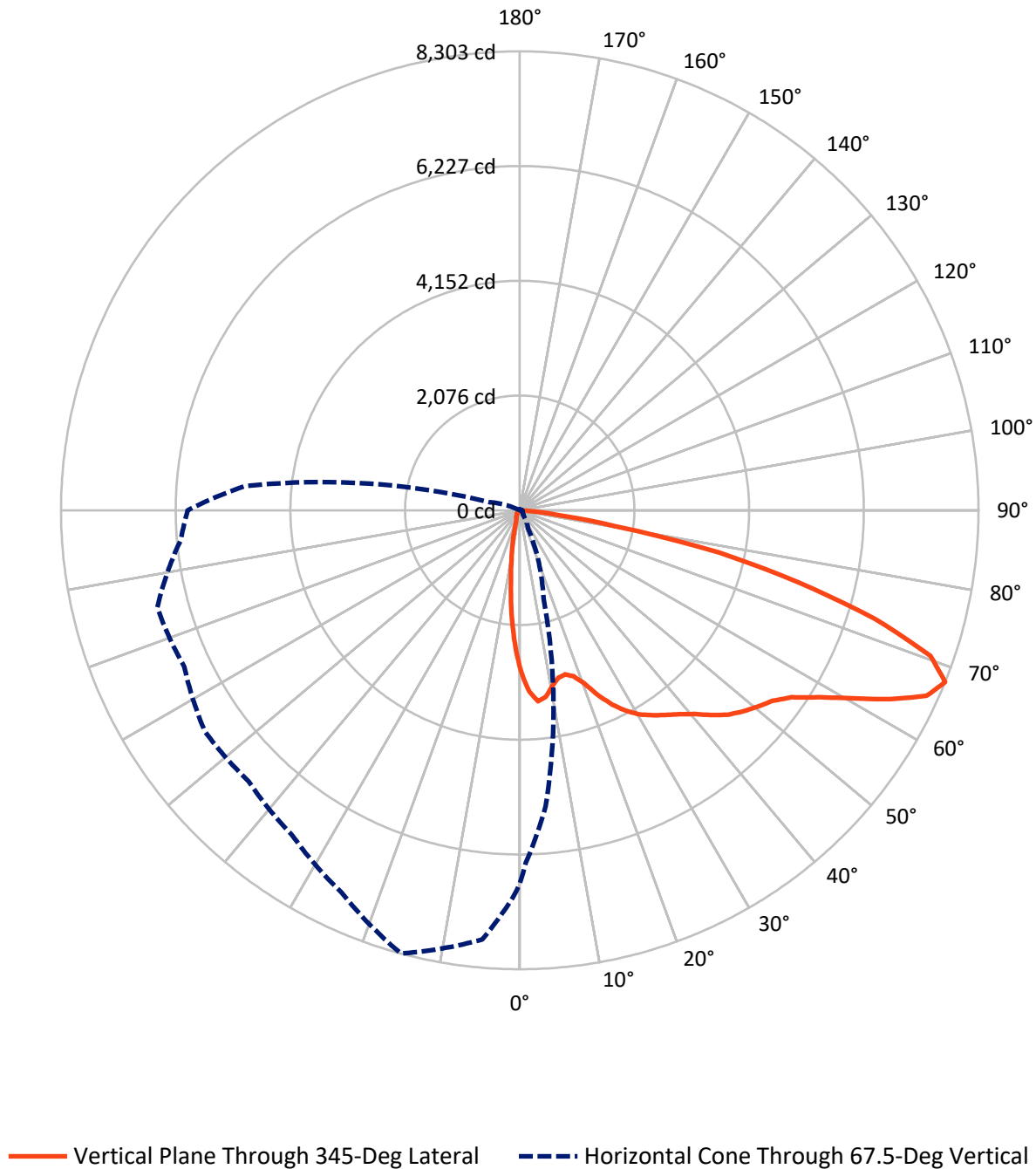
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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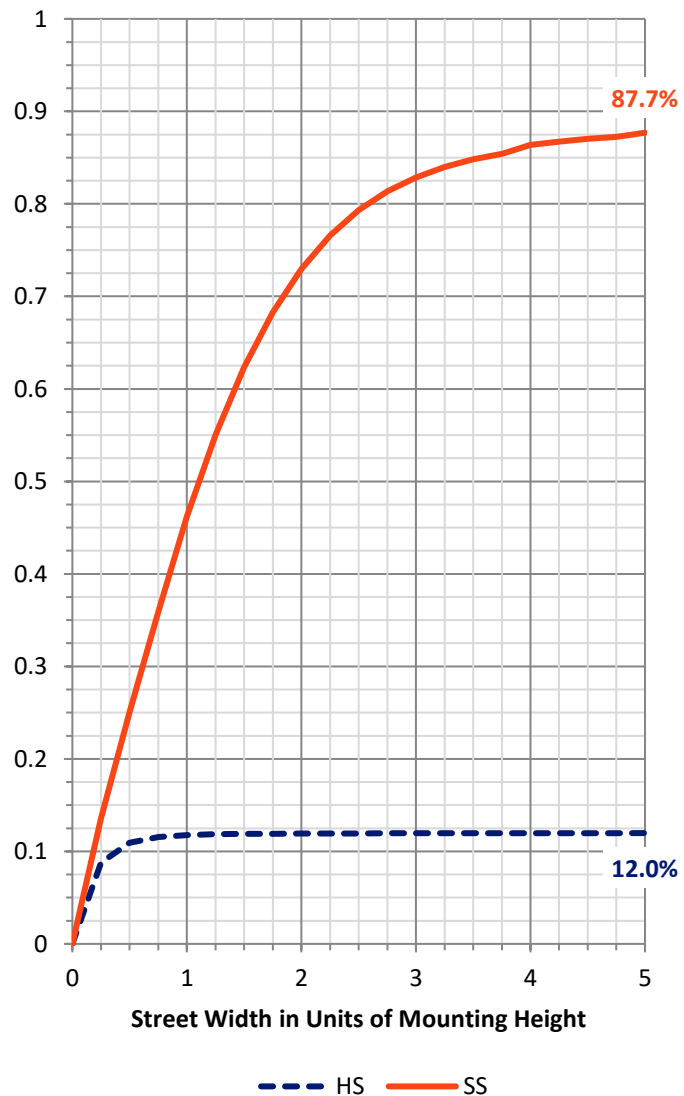
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1085.8	0.0	1085.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	7885.2	0.0	7885.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	8971.0	0.0	8971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	2.5
10°-20°	446.4	5.0
20°-30°	633.9	7.1
30°-40°	936.4	10.4
40°-50°	1350.4	15.1
50°-60°	1895.7	21.1
60°-70°	2209.8	24.6
70°-80°	1129.7	12.6
80°-90°	144.3	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°	8971.0	100.0
0°-180°	8971.0	100.0

Coefficient of Utilization



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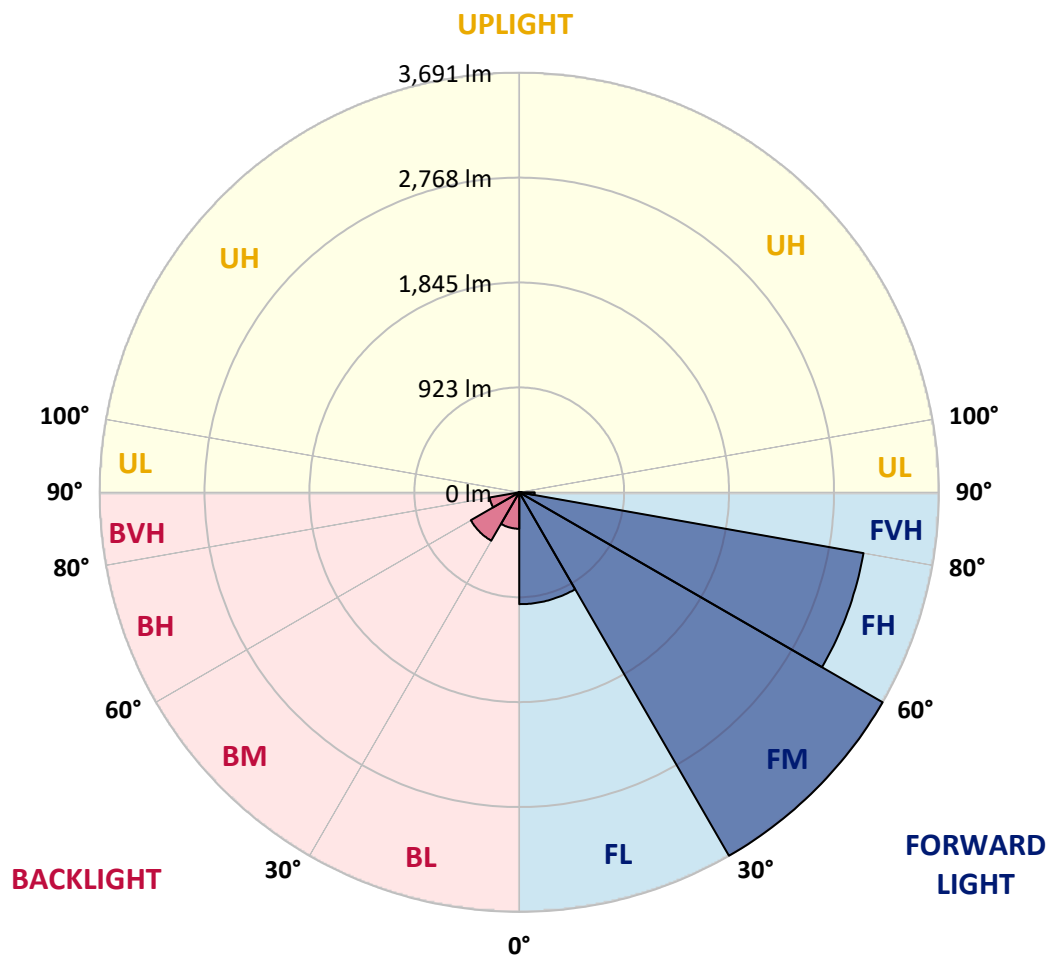
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	983.9	11.0			
FM	(30°-60°)	3690.8	41.1			
FH	(60°-80°)	3074.9	34.3			G2/5000
FVH	(80°-90°)	135.5	1.5			G2/225
BL	(0°-30°)	320.7	3.6	B1/500		
BM	(30°-60°)	491.7	5.5	B1/1000		
BH	(60°-80°)	264.6	2.9	B1/500		G1/500
BVH	(80°-90°)	8.8	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°	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3
2.5°	3199.8	3175.2	3148.0	3059.1	2976.7	2882.3	2805.4	2751.9	2684.7	2597.6	2575.5
5°	3176.9	3150.5	3065.1	2867.5	2694.5	2526.2	2363.8	2268.6	2150.5	2030.6	2000.9
7.5°	2946.1	2918.5	2795.2	2524.5	2291.6	2048.5	1837.7	1707.2	1573.8	1464.1	1405.9
10°	2706.0	2675.8	2537.2	2208.7	1921.8	1702.1	1547.4	1422.9	1296.7	1179.4	1085.9
12.5°	2540.6	2501.1	2350.7	1978.4	1728.5	1579.3	1434.8	1285.6	1114.8	989.0	886.1
15°	2471.4	2426.3	2267.4	1889.5	1660.0	1484.9	1296.7	1113.5	913.3	769.2	674.9
17.5°	2524.9	2466.3	2295.8	1883.6	1574.2	1335.8	1097.8	882.7	665.5	519.8	452.6
20°	2706.8	2629.9	2413.6	1881.9	1470.1	1158.5	856.8	613.7	438.6	352.7	317.5
22.5°	2993.3	2891.7	2582.7	1895.5	1362.5	972.4	618.8	416.9	329.4	284.7	263.9
25°	3339.2	3221.5	2826.2	1943.5	1268.2	791.3	449.6	329.4	277.9	245.2	227.8
27.5°	3668.2	3572.5	3133.9	2012.8	1195.1	645.1	365.1	279.2	237.6	215.9	201.9
30°	3996.7	3876.4	3449.7	2095.2	1107.1	546.1	320.9	254.6	212.9	190.0	181.0
32.5°	4235.5	4135.7	3697.1	2154.7	1013.2	481.5	286.9	232.9	198.9	175.5	162.3
35°	4516.5	4403.4	3909.1	2167.9	952.8	440.7	258.0	209.5	172.5	151.7	137.7
37.5°	4819.9	4679.2	4153.9	2139.0	905.7	420.7	236.3	198.9	161.1	139.8	124.9
40°	5155.7	4996.7	4389.0	2097.4	859.3	413.9	219.7	190.8	152.1	130.5	115.2
42.5°	5509.2	5321.8	4592.5	2053.6	830.0	390.6	218.0	182.7	145.3	122.0	106.7
45°	5806.3	5616.3	4801.6	2039.1	809.2	365.1	225.2	177.2	140.7	115.2	100.3
47.5°	6043.0	5863.3	5015.8	2071.4	797.3	341.7	205.3	184.4	138.1	109.2	94.8
50°	6325.7	6122.1	5317.6	2167.9	779.9	318.3	185.7	211.2	138.1	105.4	90.1
52.5°	6680.1	6478.7	5654.2	2317.5	745.0	286.0	167.0	211.6	139.4	100.3	84.1
55°	7125.9	6979.7	6134.8	2481.6	689.3	238.4	144.5	181.9	134.3	90.9	78.6
57.5°	7553.5	7434.1	6573.0	2593.8	615.0	186.1	125.8	146.6	122.8	79.9	70.1
59°	7670.4	7539.9	6733.7	2598.9	559.3	162.3	116.4	121.1	120.3	74.8	65.0
60°	7670.4	7531.8	6780.0	2571.7	518.9	149.2	110.5	107.9	125.4	71.4	62.0
62.5°	7531.4	7336.7	6629.5	2387.6	423.3	127.1	96.5	89.2	112.6	64.2	54.8
65°	7242.4	6958.9	6117.0	2054.9	377.4	116.4	83.3	73.1	78.2	56.5	48.0
67.5°	6760.4	6376.2	5377.9	1660.0	359.1	113.5	71.8	62.0	59.1	48.4	42.1
70°	5911.7	5485.4	4480.8	1305.2	343.4	112.2	60.3	52.3	47.6	40.8	35.7
72.5°	4302.7	3858.1	3181.1	1020.4	334.0	114.7	48.4	43.8	39.1	31.9	27.6
75°	2461.2	2170.0	1788.0	674.0	284.7	109.6	37.4	36.5	28.0	22.9	19.1
77.5°	1271.6	1232.9	1071.4	258.8	136.4	48.0	24.6	21.2	16.6	14.0	11.5
80°	548.7	542.7	469.6	74.8	36.1	26.8	14.0	8.9	7.6	5.9	4.7
82.5°	189.5	189.5	167.0	25.1	16.1	13.2	1.7	0.0	0.0	0.0	0.0
85°	38.2	42.9	30.2	0.0	5.5	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°	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3
2.5°	2548.7	2497.3	2493.9	2461.6	2421.2	2402.9	2392.3	2411.0	2434.0	2436.5	2470.9
5°	1978.4	1924.4	1946.9	1889.5	1901.0	1889.5	1870.8	1874.2	1884.4	1852.6	1892.1
7.5°	1389.3	1348.5	1374.4	1359.1	1379.5	1387.6	1376.1	1359.1	1309.0	1303.0	1337.5
10°	1047.2	1000.9	973.2	944.3	950.7	963.9	959.6	947.3	915.4	917.1	950.3
12.5°	841.5	789.6	734.8	663.8	646.4	656.2	646.4	639.2	608.6	611.1	640.5
15°	638.3	595.8	538.5	481.5	450.5	453.5	426.3	407.1	388.0	365.1	382.9
17.5°	430.9	405.0	388.0	371.0	334.0	325.5	291.1	254.1	239.7	229.1	236.7
20°	305.1	291.1	284.3	283.5	262.2	251.6	218.0	195.1	187.8	185.7	190.4
22.5°	255.0	244.8	235.0	229.5	218.9	206.5	181.0	169.6	164.5	161.9	165.3
25°	221.8	214.2	204.0	194.6	190.4	177.2	158.9	150.4	147.0	144.5	146.2
27.5°	197.2	190.4	178.5	172.5	169.1	157.7	141.9	135.1	132.2	131.3	130.9
30°	177.6	171.3	160.2	153.4	147.5	137.3	127.9	121.1	118.1	117.3	116.4
32.5°	158.1	153.0	145.8	139.0	132.6	123.2	115.2	109.6	105.0	104.1	103.7
35°	133.4	128.3	124.5	124.1	118.1	109.2	103.3	96.0	92.2	90.9	91.4
37.5°	118.6	111.8	103.3	106.2	104.5	98.2	90.1	82.9	79.0	78.2	78.2
40°	109.2	102.0	92.2	87.1	92.2	90.9	78.2	71.0	67.1	66.7	65.9
42.5°	100.3	93.1	82.0	73.5	76.1	79.9	67.6	60.8	56.9	56.1	54.8
45°	93.9	86.3	73.9	64.2	59.1	67.1	57.8	49.3	47.2	45.5	44.6
47.5°	88.0	80.7	66.7	55.7	47.2	48.4	46.3	40.4	37.8	36.1	35.7
50°	82.9	75.2	60.3	47.6	39.1	35.7	37.4	31.9	29.7	28.0	27.2
52.5°	76.9	69.7	53.5	41.2	32.7	28.0	28.5	25.1	22.9	21.7	21.2
55°	72.2	65.0	48.0	36.1	28.9	22.9	20.4	19.5	18.3	17.4	17.0
57.5°	65.9	59.1	42.5	30.6	24.6	18.7	15.7	15.7	15.3	14.4	14.0
59°	62.0	56.1	39.1	27.6	22.5	16.1	14.0	14.4	14.0	13.2	12.7
60°	59.1	53.5	36.5	25.5	21.2	14.9	12.7	13.6	13.2	12.3	11.9
62.5°	52.3	48.4	31.4	21.2	18.7	11.9	10.6	11.5	11.5	11.0	10.6
65°	45.9	41.6	26.8	17.8	17.4	10.2	8.5	10.2	10.6	9.8	8.9
67.5°	39.9	35.7	23.4	14.4	16.1	8.1	6.4	8.5	11.5	8.9	8.1
70°	34.0	29.7	18.3	11.5	17.0	5.5	5.1	7.6	13.6	9.8	7.6
72.5°	26.3	22.9	12.7	8.5	18.3	3.8	3.8	6.4	15.3	10.6	7.2
75°	18.3	14.9	7.6	5.1	14.9	2.5	2.5	5.9	14.4	9.8	6.8
77.5°	10.6	8.1	2.5	0.4	7.6	0.0	0.4	4.2	10.2	5.9	3.0
80°	3.8	1.7	0.0	0.0	4.7	0.0	0.0	0.0	0.8	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°	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3
2.5°	2479.9	2537.2	2588.7	2666.4	2758.7	2864.9	2956.3	3054.5	3146.7	3184.9	3211.3
5°	1900.2	1971.1	2054.0	2168.3	2320.5	2507.9	2683.4	2881.9	3095.3	3201.9	3302.2
7.5°	1343.4	1415.7	1518.5	1640.1	1824.1	2047.2	2276.7	2550.8	2839.8	3008.6	3174.7
10°	966.0	1054.8	1150.9	1317.1	1504.1	1715.7	1952.0	2258.0	2580.2	2767.2	2967.3
12.5°	657.5	758.6	904.0	1090.1	1309.8	1517.2	1722.5	2014.5	2388.5	2573.8	2788.4
15°	394.4	450.5	604.3	819.8	1089.3	1347.7	1572.5	1865.3	2264.0	2490.9	2714.0
17.5°	243.1	269.0	352.7	529.5	812.6	1139.4	1447.5	1814.7	2281.8	2558.1	2796.9
20°	193.8	204.0	230.8	312.8	538.5	909.9	1306.9	1804.5	2427.6	2767.6	3023.9
22.5°	168.3	178.1	195.9	227.4	338.7	681.3	1173.4	1813.9	2636.7	3081.7	3380.9
25°	148.3	156.8	173.8	199.7	248.2	479.8	1030.6	1855.5	2909.1	3471.4	3789.3
27.5°	132.6	139.8	155.5	179.3	212.9	334.9	868.7	1906.1	3232.1	3870.0	4183.7
30°	118.1	124.5	138.5	160.6	184.9	257.5	691.0	1940.5	3555.5	4183.7	4465.5
32.5°	105.8	110.5	123.2	141.9	160.6	205.3	525.3	1935.0	3795.7	4444.6	4668.2
35°	93.1	97.7	108.8	124.9	139.8	169.6	413.1	1831.7	4004.8	4715.4	4900.2
37.5°	79.0	85.0	95.6	110.1	120.3	149.2	334.0	1707.2	4216.8	5024.8	5159.1
40°	67.1	73.1	82.4	98.2	104.5	141.5	256.7	1555.5	4455.3	5370.7	5443.0
42.5°	55.7	61.2	71.0	84.6	98.6	122.0	190.0	1382.1	4684.3	5666.5	5701.8
45°	45.0	50.6	60.8	74.4	105.4	101.1	147.0	1196.4	4869.2	5912.6	5924.0
47.5°	35.7	40.8	51.4	70.1	98.2	80.7	105.0	1050.6	5024.3	6104.7	6074.5
50°	27.6	31.9	42.9	80.3	85.8	66.7	79.5	1002.1	5163.3	6223.7	6145.5
52.5°	21.7	25.5	35.3	75.2	66.7	55.2	66.7	1047.6	5353.7	6322.3	6185.4
55°	17.4	21.2	27.6	42.9	45.5	46.7	56.9	1090.1	5682.2	6553.5	6421.3
57.5°	14.4	18.3	22.5	30.2	34.4	39.5	50.6	1094.8	6069.4	6937.7	6812.7
59°	13.2	16.6	20.4	26.8	30.2	36.1	47.6	1069.3	6205.8	7077.5	7015.0
60°	12.3	15.7	19.1	24.6	28.0	34.0	45.9	1045.1	6211.8	7072.4	7101.3
62.5°	10.6	14.0	17.0	20.8	23.8	28.9	41.2	955.4	5960.2	6840.8	7049.4
65°	9.3	12.3	15.3	17.8	20.4	25.9	37.4	791.8	5530.5	6467.2	6694.6
67.5°	8.5	10.6	14.0	15.7	18.3	22.9	33.1	564.4	4993.7	6010.3	6157.8
70°	7.6	10.2	12.7	14.4	16.6	20.0	28.5	324.3	4216.8	5341.4	5446.4
72.5°	7.2	9.8	11.5	13.6	14.9	17.8	25.9	152.6	3087.6	4278.9	4553.0
75°	6.4	8.9	10.6	12.7	14.0	16.1	22.1	73.1	2053.6	3096.5	3408.1
77.5°	3.8	7.2	9.8	11.5	12.3	14.0	18.3	42.1	1310.7	2143.3	2524.5
80°	0.0	2.5	7.2	9.8	10.6	11.9	14.0	33.1	701.2	1224.4	1469.6
82.5°	0.0	0.0	5.1	7.6	7.2	8.1	10.6	20.8	316.2	800.3	901.8
85°	0.0	0.0	1.7	5.9	5.1	3.8	7.2	7.2	69.3	405.0	505.3
87.5°	0.0	0.0	0.0	0.4	2.5	1.7	3.0	0.8	0.4	30.2	122.4
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°	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3
2.5°	3303.5	3335.0	3388.1	3413.2	3400.8	3348.6	3286.1	3222.3	3184.9	3199.8
5°	3506.7	3668.6	3762.1	3793.1	3741.3	3624.0	3470.5	3268.2	3196.4	3176.9
7.5°	3506.7	3811.4	4004.3	4038.3	3922.7	3692.8	3405.1	3089.3	2984.3	2946.1
10°	3383.4	3798.2	4067.2	4121.2	3959.7	3615.9	3230.4	2870.0	2745.5	2706.0
12.5°	3244.4	3691.1	3974.6	4049.0	3916.4	3539.4	3109.3	2721.7	2575.1	2540.6
15°	3159.0	3559.4	3794.0	3847.9	3791.8	3494.8	3080.4	2677.1	2504.5	2471.4
17.5°	3189.6	3457.4	3541.9	3573.4	3611.2	3479.0	3159.0	2774.8	2556.4	2524.9
20°	3304.8	3349.8	3306.1	3345.6	3447.6	3494.3	3346.4	3011.1	2748.9	2706.8
22.5°	3500.3	3294.2	3171.3	3187.1	3311.2	3544.9	3632.9	3348.6	3046.0	2993.3
25°	3728.1	3339.2	3096.5	3082.5	3210.0	3611.6	3894.7	3715.8	3397.4	3339.2
27.5°	4014.5	3440.4	3081.2	3067.2	3174.7	3674.1	4112.3	4078.7	3767.6	3668.2
30°	4235.5	3539.8	3126.7	3094.4	3210.0	3717.5	4287.0	4386.8	4062.6	3996.7
32.5°	4394.1	3657.1	3200.7	3153.9	3309.5	3792.3	4421.7	4669.0	4335.4	4235.5
35°	4514.8	3784.6	3320.1	3243.2	3446.3	3905.7	4547.9	4969.5	4625.7	4516.5
37.5°	4627.8	3963.5	3506.7	3414.9	3660.9	4088.5	4681.4	5310.4	4950.4	4819.9
40°	4785.5	4166.3	3794.4	3712.8	4021.8	4337.5	4848.0	5665.6	5319.7	5155.7
42.5°	4943.2	4383.9	4088.9	4111.0	4471.8	4640.1	5063.0	6041.3	5684.3	5509.2
45°	5087.2	4608.3	4508.4	4610.4	4889.6	4972.1	5276.8	6258.5	5975.5	5806.3
47.5°	5215.6	4888.8	4925.3	5196.9	5364.8	5272.5	5436.6	6445.9	6192.2	6043.0
50°	5364.8	5251.7	5474.8	5859.0	5911.7	5544.5	5581.9	6667.8	6445.5	6325.7
52.5°	5527.9	5634.2	6083.4	6422.1	6405.1	5839.9	5728.1	6916.4	6792.7	6680.1
55°	5713.2	5943.2	6619.3	6949.1	6934.7	6169.7	5970.4	7223.7	7227.9	7125.9
57.5°	5988.2	6209.2	6983.1	7375.4	7399.6	6550.5	6380.9	7567.9	7621.5	7553.5
59°	6185.4	6381.8	7127.2	7553.5	7652.1	6845.0	6681.0	7767.7	7732.4	7670.4
60°	6331.6	6491.4	7198.6	7646.6	7798.7	7044.8	6902.4	7885.0	7745.6	7670.4
62.5°	6693.3	6730.3	7327.4	7752.0	7967.4	7488.5	7525.4	8084.7	7654.2	7531.4
65°	6862.0	6881.1	7325.7	7563.3	7804.2	7834.0	8090.7	8090.7	7431.1	7242.4
67.5°	6791.5	6699.2	6962.3	6937.7	7178.2	7628.7	8303.2	7794.0	7004.4	6760.4
70°	6217.7	5862.8	5746.0	5756.6	5940.6	6635.5	7882.4	6921.1	6196.9	5911.7
72.5°	5173.5	4322.2	4033.7	4363.0	4411.1	5099.6	6717.5	5212.2	4570.0	4302.7
75°	4161.2	3046.8	2577.6	2925.3	3006.9	3731.9	5196.5	3246.1	2669.4	2461.2
77.5°	2989.4	2187.0	1849.6	1825.4	1930.8	2366.8	3687.3	1633.7	1362.5	1271.6
80°	1698.3	1439.5	1550.0	1462.4	1515.5	1479.8	1751.8	716.5	586.9	548.7
82.5°	1025.1	850.8	921.4	767.1	970.7	845.3	674.9	229.5	199.3	189.5
85°	666.8	464.9	242.2	162.3	334.5	540.2	150.9	62.5	48.0	38.2
87.5°	229.9	118.6	11.9	5.1	35.7	100.7	5.5	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)