

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: P324616

Luminaire Tested: **GAN-SA2D-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324616
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-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 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: 8651 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

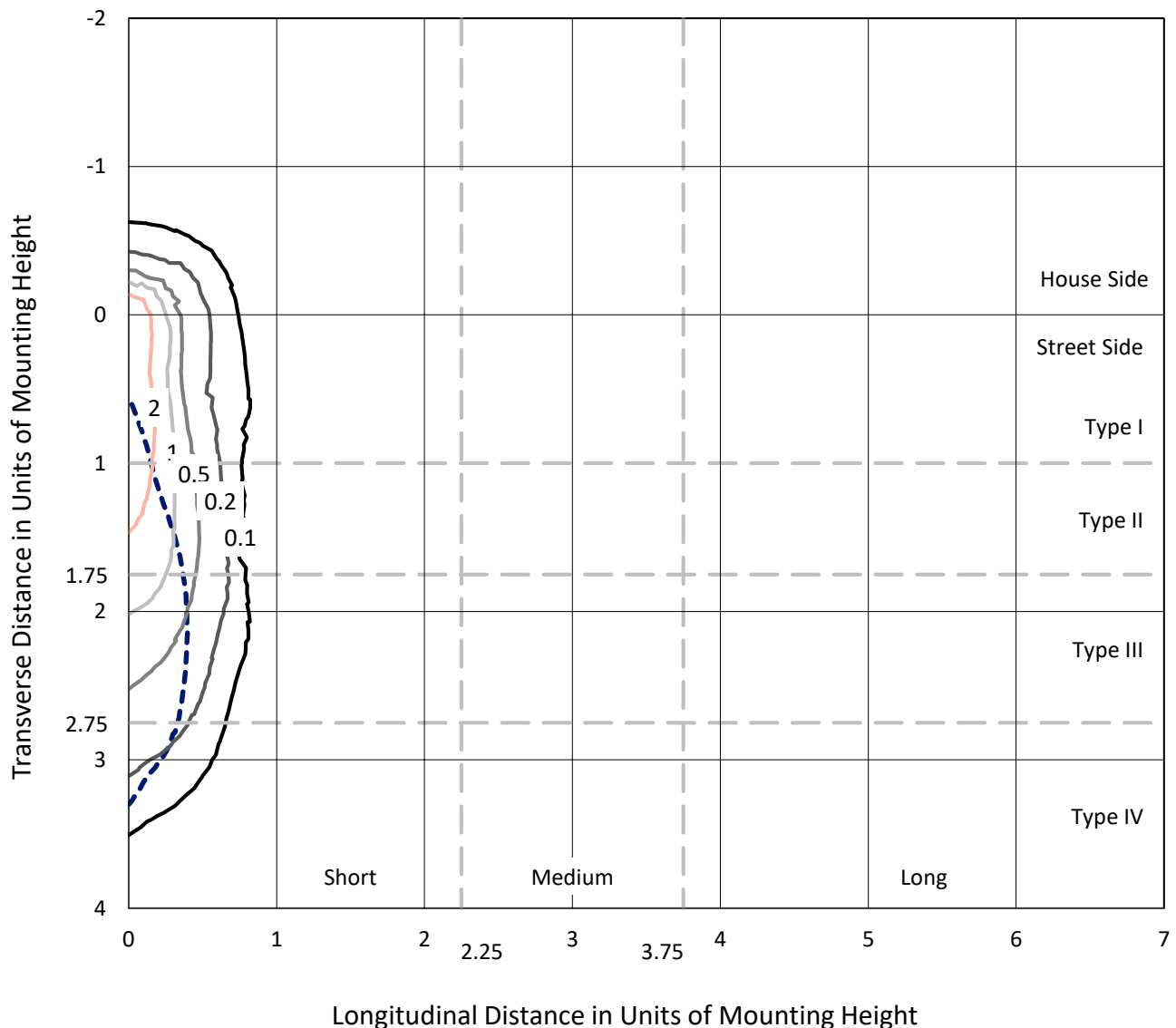
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

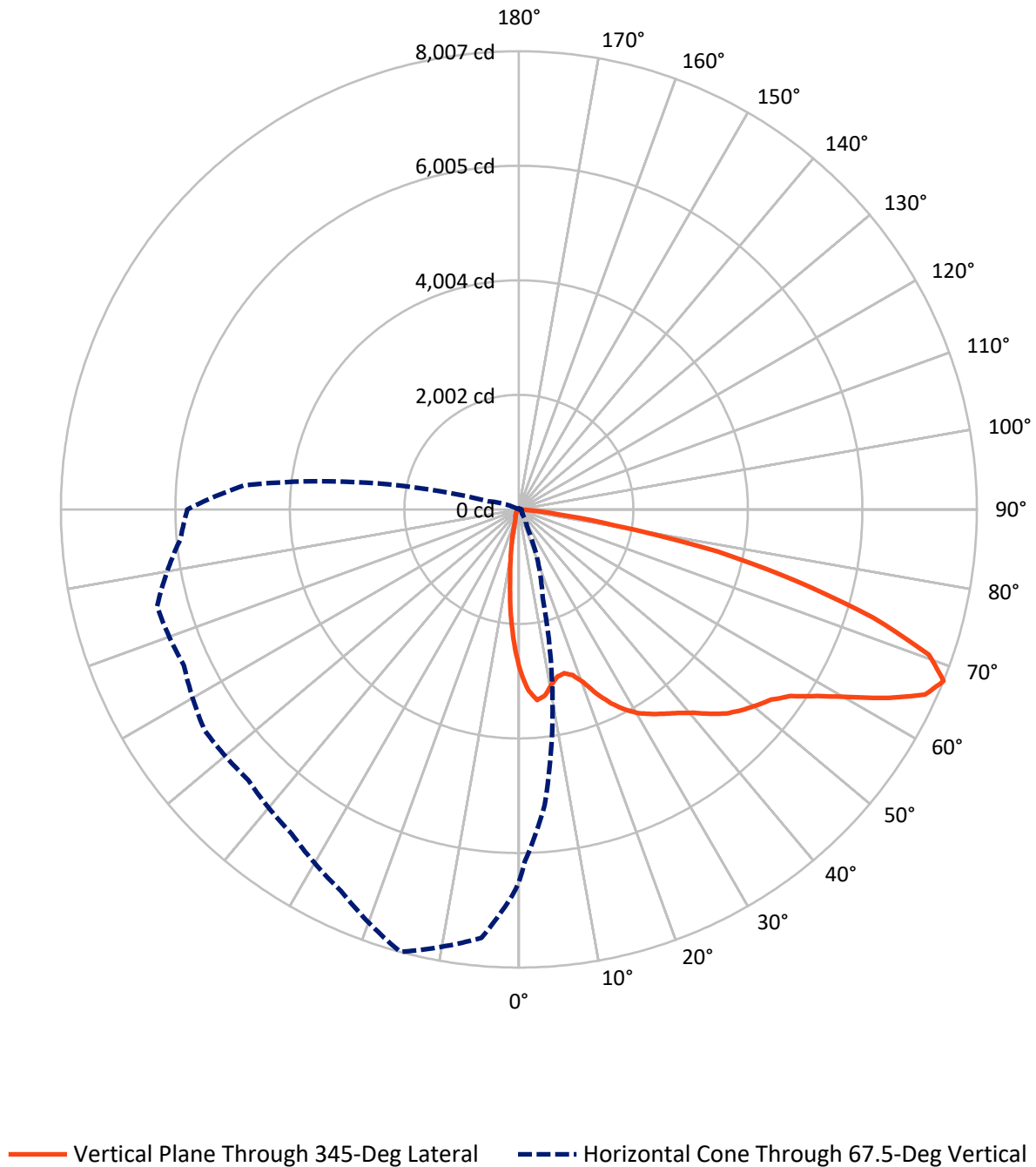
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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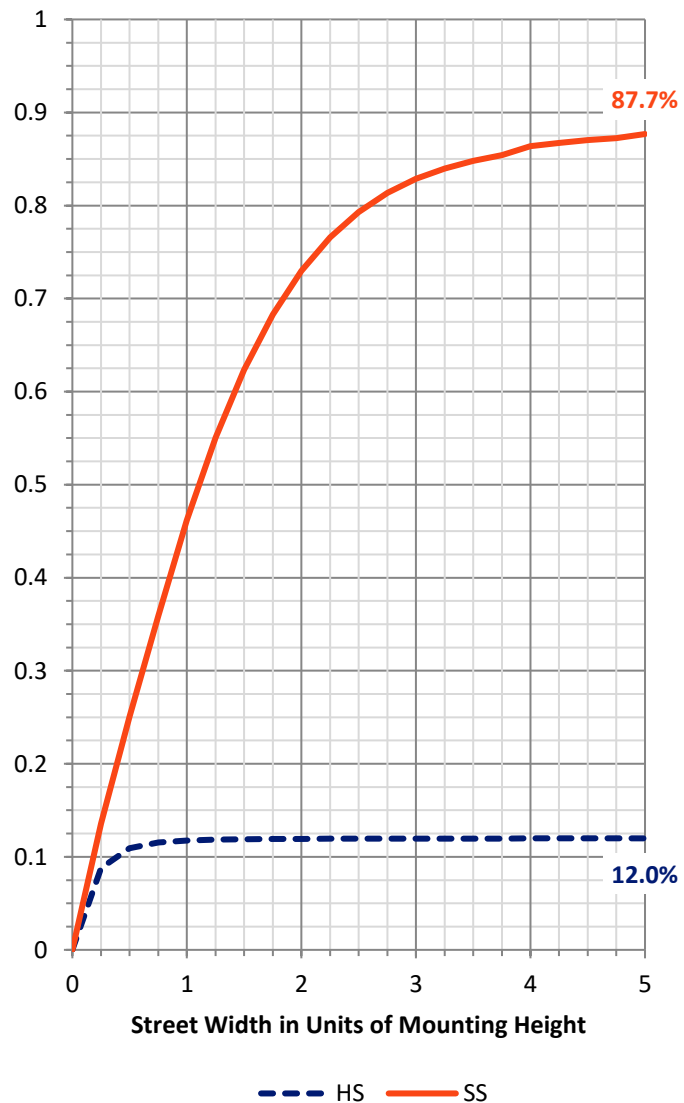
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1047.0	0.0	1047.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	7603.9	0.0	7603.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	8651.0	0.0	8651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.3	2.5
10°-20°	430.5	5.0
20°-30°	611.3	7.1
30°-40°	903.0	10.4
40°-50°	1302.3	15.1
50°-60°	1828.1	21.1
60°-70°	2131.0	24.6
70°-80°	1089.4	12.6
80°-90°	139.1	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°	8651.0	100.0
0°-180°	8651.0	100.0

Coefficient of Utilization



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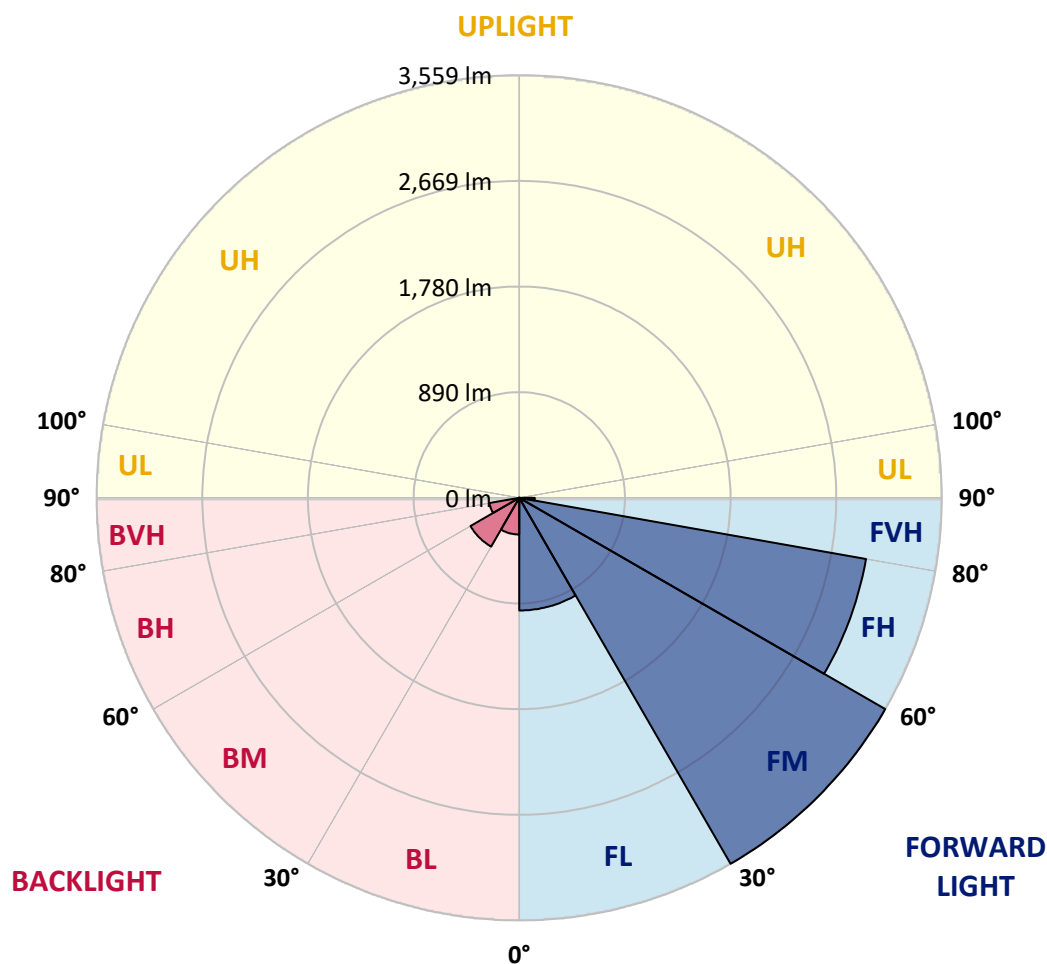
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	948.8	11.0			
FM	(30°-60°)	3559.2	41.1			
FH	(60°-80°)	2965.3	34.3			G2/5000
FVH	(80°-90°)	130.7	1.5			G2/225
BL	(0°-30°)	309.3	3.6	B1/500		
BM	(30°-60°)	474.1	5.5	B1/1000		
BH	(60°-80°)	255.2	2.9	B1/500		G1/500
BVH	(80°-90°)	8.5	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0
2.5°	3085.7	3061.9	3035.7	2950.0	2870.5	2779.5	2705.3	2653.7	2588.9	2504.9	2483.6
5°	3063.5	3038.1	2955.8	2765.2	2598.4	2436.1	2279.5	2187.7	2073.8	1958.2	1929.5
7.5°	2841.0	2814.4	2695.5	2434.4	2209.8	1975.4	1772.1	1646.3	1517.6	1411.9	1355.7
10°	2609.4	2580.3	2446.7	2129.9	1853.3	1641.4	1492.2	1372.1	1250.4	1137.3	1047.1
12.5°	2450.0	2411.9	2266.8	1907.8	1666.8	1523.0	1383.6	1239.8	1075.0	953.7	854.5
15°	2383.2	2339.8	2186.5	1822.1	1600.8	1432.0	1250.4	1073.8	880.7	741.8	650.8
17.5°	2434.8	2378.3	2213.9	1816.4	1518.0	1288.1	1058.6	851.2	641.8	501.2	436.5
20°	2610.3	2536.1	2327.5	1814.8	1417.6	1117.2	826.2	591.8	423.0	340.2	306.1
22.5°	2886.5	2788.5	2490.6	1827.9	1313.9	937.7	596.7	402.1	317.6	274.6	254.5
25°	3220.1	3106.6	2725.4	1874.2	1223.0	763.1	433.6	317.6	268.0	236.5	219.7
27.5°	3537.3	3445.1	3022.1	1941.0	1152.5	622.1	352.1	269.3	229.1	208.2	194.7
30°	3854.1	3738.1	3326.7	2020.5	1067.6	526.6	309.4	245.5	205.3	183.2	174.6
32.5°	4084.4	3988.1	3565.2	2077.9	977.1	464.3	276.6	224.6	191.8	169.3	156.6
35°	4355.4	4246.3	3769.7	2090.6	918.9	425.0	248.8	202.1	166.4	146.3	132.8
37.5°	4648.0	4512.3	4005.8	2062.7	873.4	405.7	227.9	191.8	155.3	134.8	120.5
40°	4971.7	4818.5	4232.4	2022.6	828.7	399.2	211.9	184.0	146.7	125.8	111.1
42.5°	5312.7	5132.0	4428.7	1980.3	800.4	376.6	210.2	176.2	140.2	117.6	102.9
45°	5599.2	5416.0	4630.4	1966.4	780.3	352.1	217.2	170.9	135.7	111.1	96.7
47.5°	5827.5	5654.1	4836.9	1997.6	768.9	329.5	198.0	177.9	133.2	105.3	91.4
50°	6100.0	5903.7	5127.9	2090.6	752.1	307.0	179.1	203.7	133.2	101.6	86.9
52.5°	6441.8	6247.6	5452.5	2234.8	718.4	275.8	161.1	204.1	134.4	96.7	81.1
55°	6871.8	6730.8	5916.0	2393.0	664.8	229.9	139.3	175.4	129.5	87.7	75.8
57.5°	7284.1	7168.9	6338.6	2501.2	593.0	179.5	121.3	141.4	118.4	77.0	67.6
59°	7396.8	7270.9	6493.5	2506.2	539.3	156.6	112.3	116.8	116.0	72.1	62.7
60°	7396.8	7263.2	6538.1	2479.9	500.4	143.9	106.6	104.1	120.9	68.9	59.8
62.5°	7262.7	7075.0	6393.1	2302.5	408.2	122.5	93.0	86.1	108.6	61.9	52.9
65°	6984.1	6710.7	5898.8	1981.6	363.9	112.3	80.3	70.5	75.4	54.5	46.3
67.5°	6519.3	6148.8	5186.1	1600.8	346.3	109.4	69.3	59.8	57.0	46.7	40.6
70°	5700.8	5289.8	4320.9	1258.6	331.1	108.2	58.2	50.4	45.9	39.3	34.4
72.5°	4149.2	3720.5	3067.6	984.0	322.1	110.7	46.7	42.2	37.7	30.7	26.6
75°	2373.4	2092.6	1724.2	650.0	274.6	105.7	36.1	35.2	27.0	22.1	18.4
77.5°	1226.2	1188.9	1033.2	249.6	131.6	46.3	23.8	20.5	16.0	13.5	11.1
80°	529.1	523.4	452.9	72.1	34.8	25.8	13.5	8.6	7.4	5.7	4.5
82.5°	182.8	182.8	161.1	24.2	15.6	12.7	1.6	0.0	0.0	0.0	0.0
85°	36.9	41.4	29.1	0.0	5.3	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°	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0
2.5°	2457.8	2408.2	2404.9	2373.8	2334.8	2317.2	2307.0	2325.0	2347.1	2349.6	2382.8
5°	1907.8	1855.7	1877.5	1822.1	1833.2	1822.1	1804.1	1807.4	1817.2	1786.5	1824.6
7.5°	1339.8	1300.4	1325.4	1310.7	1330.3	1338.1	1327.1	1310.7	1262.3	1256.6	1289.8
10°	1009.8	965.2	938.5	910.7	916.8	929.5	925.4	913.5	882.8	884.4	916.4
12.5°	811.5	761.5	708.6	640.2	623.4	632.8	623.4	616.4	586.9	589.3	617.6
15°	615.6	574.6	519.3	464.3	434.4	437.3	411.1	392.6	374.2	352.1	369.3
17.5°	415.6	390.6	374.2	357.8	322.1	313.9	280.7	245.1	231.1	220.9	228.3
20°	294.3	280.7	274.2	273.4	252.9	242.6	210.2	188.1	181.1	179.1	183.6
22.5°	245.9	236.1	226.6	221.3	211.1	199.2	174.6	163.5	158.6	156.1	159.4
25°	213.9	206.6	196.7	187.7	183.6	170.9	153.3	145.1	141.8	139.3	141.0
27.5°	190.2	183.6	172.1	166.4	163.1	152.0	136.9	130.3	127.5	126.6	126.2
30°	171.3	165.2	154.5	148.0	142.2	132.4	123.4	116.8	113.9	113.1	112.3
32.5°	152.5	147.5	140.6	134.0	127.9	118.9	111.1	105.7	101.2	100.4	100.0
35°	128.7	123.8	120.1	119.7	113.9	105.3	99.6	92.6	88.9	87.7	88.1
37.5°	114.3	107.8	99.6	102.5	100.8	94.7	86.9	79.9	76.2	75.4	75.4
40°	105.3	98.4	88.9	84.0	88.9	87.7	75.4	68.4	64.8	64.3	63.5
42.5°	96.7	89.8	79.1	70.9	73.4	77.0	65.2	58.6	54.9	54.1	52.9
45°	90.6	83.2	71.3	61.9	57.0	64.8	55.7	47.5	45.5	43.9	43.0
47.5°	84.8	77.9	64.3	53.7	45.5	46.7	44.7	38.9	36.5	34.8	34.4
50°	79.9	72.5	58.2	45.9	37.7	34.4	36.1	30.7	28.7	27.0	26.2
52.5°	74.2	67.2	51.6	39.8	31.6	27.0	27.5	24.2	22.1	20.9	20.5
55°	69.7	62.7	46.3	34.8	27.9	22.1	19.7	18.9	17.6	16.8	16.4
57.5°	63.5	57.0	41.0	29.5	23.8	18.0	15.2	15.2	14.8	13.9	13.5
59°	59.8	54.1	37.7	26.6	21.7	15.6	13.5	13.9	13.5	12.7	12.3
60°	57.0	51.6	35.2	24.6	20.5	14.3	12.3	13.1	12.7	11.9	11.5
62.5°	50.4	46.7	30.3	20.5	18.0	11.5	10.2	11.1	11.1	10.7	10.2
65°	44.3	40.2	25.8	17.2	16.8	9.8	8.2	9.8	10.2	9.4	8.6
67.5°	38.5	34.4	22.5	13.9	15.6	7.8	6.1	8.2	11.1	8.6	7.8
70°	32.8	28.7	17.6	11.1	16.4	5.3	4.9	7.4	13.1	9.4	7.4
72.5°	25.4	22.1	12.3	8.2	17.6	3.7	3.7	6.1	14.8	10.2	7.0
75°	17.6	14.3	7.4	4.9	14.3	2.5	2.5	5.7	13.9	9.4	6.6
77.5°	10.2	7.8	2.5	0.4	7.4	0.0	0.4	4.1	9.8	5.7	2.9
80°	3.7	1.6	0.0	0.0	4.5	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°	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0
2.5°	2391.4	2446.7	2496.3	2571.3	2660.3	2762.7	2850.8	2945.5	3034.4	3071.3	3096.7
5°	1832.4	1900.8	1980.7	2091.0	2237.7	2418.5	2587.7	2779.1	2984.9	3087.7	3184.4
7.5°	1295.5	1365.2	1464.4	1581.6	1759.0	1974.2	2195.5	2459.8	2738.5	2901.2	3061.5
10°	931.6	1017.2	1109.8	1270.1	1450.4	1654.5	1882.4	2177.5	2488.1	2668.5	2861.5
12.5°	634.0	731.6	871.7	1051.2	1263.1	1463.1	1661.1	1942.6	2303.3	2482.0	2688.9
15°	380.3	434.4	582.8	790.6	1050.4	1299.6	1516.4	1798.8	2183.2	2402.1	2617.2
17.5°	234.4	259.4	340.2	510.7	783.6	1098.8	1395.9	1750.0	2200.4	2466.8	2697.1
20°	186.9	196.7	222.5	301.6	519.3	877.5	1260.3	1740.2	2341.0	2668.9	2916.0
22.5°	162.3	171.7	188.9	219.3	326.6	657.0	1131.6	1749.2	2542.6	2971.7	3260.3
25°	143.0	151.2	167.6	192.6	239.3	462.7	993.9	1789.4	2805.3	3347.6	3654.1
27.5°	127.9	134.8	150.0	173.0	205.3	323.0	837.7	1838.1	3116.8	3732.0	4034.4
30°	113.9	120.1	133.6	154.9	178.3	248.4	666.4	1871.3	3428.7	4034.4	4306.2
32.5°	102.0	106.6	118.9	136.9	154.9	198.0	506.6	1866.0	3660.3	4286.1	4501.7
35°	89.8	94.3	104.9	120.5	134.8	163.5	398.4	1766.4	3861.9	4547.2	4725.4
37.5°	76.2	82.0	92.2	106.1	116.0	143.9	322.1	1646.3	4066.4	4845.5	4975.0
40°	64.8	70.5	79.5	94.7	100.8	136.5	247.5	1500.0	4296.3	5179.1	5248.8
42.5°	53.7	59.0	68.4	81.6	95.1	117.6	183.2	1332.8	4517.2	5464.4	5498.4
45°	43.4	48.8	58.6	71.7	101.6	97.5	141.8	1153.7	4695.5	5701.7	5712.7
47.5°	34.4	39.3	49.6	67.6	94.7	77.9	101.2	1013.1	4845.1	5886.9	5857.8
50°	26.6	30.7	41.4	77.5	82.8	64.3	76.6	966.4	4979.1	6001.7	5926.3
52.5°	20.9	24.6	34.0	72.5	64.3	53.3	64.3	1010.3	5162.7	6096.8	5964.8
55°	16.8	20.5	26.6	41.4	43.9	45.1	54.9	1051.2	5479.5	6319.7	6192.2
57.5°	13.9	17.6	21.7	29.1	33.2	38.1	48.8	1055.7	5852.9	6690.2	6569.7
59°	12.7	16.0	19.7	25.8	29.1	34.8	45.9	1031.2	5984.5	6825.0	6764.8
60°	11.9	15.2	18.4	23.8	27.0	32.8	44.3	1007.8	5990.2	6820.1	6848.0
62.5°	10.2	13.5	16.4	20.1	23.0	27.9	39.8	921.3	5747.6	6596.8	6798.0
65°	9.0	11.9	14.8	17.2	19.7	25.0	36.1	763.5	5333.2	6236.5	6455.8
67.5°	8.2	10.2	13.5	15.2	17.6	22.1	32.0	544.3	4815.6	5795.9	5938.1
70°	7.4	9.8	12.3	13.9	16.0	19.3	27.5	312.7	4066.4	5150.8	5252.1
72.5°	7.0	9.4	11.1	13.1	14.3	17.2	25.0	147.1	2977.5	4126.3	4390.6
75°	6.1	8.6	10.2	12.3	13.5	15.6	21.3	70.5	1980.3	2986.1	3286.5
77.5°	3.7	7.0	9.4	11.1	11.9	13.5	17.6	40.6	1263.9	2066.8	2434.4
80°	0.0	2.5	7.0	9.4	10.2	11.5	13.5	32.0	676.2	1180.7	1417.2
82.5°	0.0	0.0	4.9	7.4	7.0	7.8	10.2	20.1	304.9	771.7	869.7
85°	0.0	0.0	1.6	5.7	4.9	3.7	7.0	7.0	66.8	390.6	487.3
87.5°	0.0	0.0	0.0	0.4	2.5	1.6	2.9	0.8	0.4	29.1	118.0
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°	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0	2818.0
2.5°	3185.7	3216.0	3267.2	3291.4	3279.5	3229.1	3168.9	3107.4	3071.3	3085.7
5°	3381.6	3537.7	3627.9	3657.8	3607.8	3494.7	3346.7	3151.7	3082.4	3063.5
7.5°	3381.6	3675.4	3861.5	3894.3	3782.8	3561.1	3283.6	2979.1	2877.9	2841.0
10°	3262.7	3662.7	3922.2	3974.2	3818.5	3486.9	3115.2	2767.6	2647.6	2609.4
12.5°	3128.7	3559.4	3832.8	3904.5	3776.7	3413.1	2998.4	2624.6	2483.2	2450.0
15°	3046.3	3432.4	3658.6	3710.7	3656.6	3370.1	2970.5	2581.6	2415.2	2383.2
17.5°	3075.8	3334.0	3415.6	3445.9	3482.4	3354.9	3046.3	2675.8	2465.2	2434.8
20°	3186.9	3230.3	3188.1	3226.2	3324.6	3369.7	3227.1	2903.7	2650.8	2610.3
22.5°	3375.4	3176.7	3058.2	3073.4	3193.0	3418.5	3503.3	3229.1	2937.3	2886.5
25°	3595.1	3220.1	2986.1	2972.6	3095.5	3482.8	3755.8	3583.2	3276.2	3220.1
27.5°	3871.3	3317.6	2971.3	2957.8	3061.5	3543.1	3965.6	3933.2	3633.2	3537.3
30°	4084.4	3413.5	3015.2	2984.0	3095.5	3584.9	4134.0	4230.3	3917.6	3854.1
32.5°	4237.3	3526.7	3086.5	3041.4	3191.4	3657.0	4264.0	4502.5	4180.8	4084.4
35°	4353.7	3649.6	3201.7	3127.5	3323.4	3766.4	4385.7	4792.2	4460.7	4355.4
37.5°	4462.7	3822.2	3381.6	3293.0	3530.3	3942.6	4514.4	5120.9	4773.8	4648.0
40°	4614.8	4017.6	3659.0	3580.3	3878.3	4182.8	4675.0	5463.6	5129.9	4971.7
42.5°	4766.8	4227.5	3943.1	3964.4	4312.3	4474.6	4882.4	5825.8	5481.6	5312.7
45°	4905.8	4443.9	4347.6	4445.9	4715.2	4794.7	5088.6	6035.3	5762.3	5599.2
47.5°	5029.5	4714.4	4749.6	5011.5	5173.4	5084.5	5242.6	6216.0	5971.3	5827.5
50°	5173.4	5064.4	5279.5	5650.0	5700.8	5346.7	5382.8	6430.0	6215.6	6100.0
52.5°	5330.8	5433.2	5866.4	6193.1	6176.7	5631.6	5523.8	6669.7	6550.4	6441.8
55°	5509.5	5731.2	6383.2	6701.3	6687.3	5949.6	5757.4	6966.0	6970.1	6871.8
57.5°	5774.6	5987.7	6734.1	7112.3	7135.7	6316.8	6153.3	7298.0	7349.6	7284.1
59°	5964.8	6154.1	6873.0	7284.1	7379.1	6600.9	6442.7	7490.6	7456.6	7396.8
60°	6105.8	6259.9	6941.8	7373.8	7520.5	6793.5	6656.2	7603.7	7469.3	7396.8
62.5°	6454.5	6490.2	7066.0	7475.4	7683.2	7221.3	7257.0	7796.4	7381.2	7262.7
65°	6617.2	6635.7	7064.4	7293.5	7525.9	7554.5	7802.1	7802.1	7166.0	6984.1
67.5°	6549.2	6460.3	6714.0	6690.2	6922.2	7356.6	8007.0	7516.0	6754.5	6519.3
70°	5995.9	5653.7	5541.0	5551.3	5728.7	6398.8	7601.3	6674.2	5975.9	5700.8
72.5°	4989.0	4168.1	3889.8	4207.4	4253.7	4917.6	6477.9	5026.3	4407.0	4149.2
75°	4012.7	2938.1	2485.7	2820.9	2899.6	3598.8	5011.1	3130.3	2574.2	2373.4
77.5°	2882.8	2109.0	1783.6	1760.3	1861.9	2282.4	3555.8	1575.4	1313.9	1226.2
80°	1637.7	1388.1	1494.7	1410.3	1461.5	1427.1	1689.4	691.0	566.0	529.1
82.5°	988.5	820.5	888.5	739.8	936.1	815.2	650.8	221.3	192.2	182.8
85°	643.0	448.4	233.6	156.6	322.5	520.9	145.5	60.2	46.3	36.9
87.5°	221.7	114.3	11.5	4.9	34.4	97.1	5.3	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)