

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: P324296

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324296
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-SA2D-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA 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: 8652 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - 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

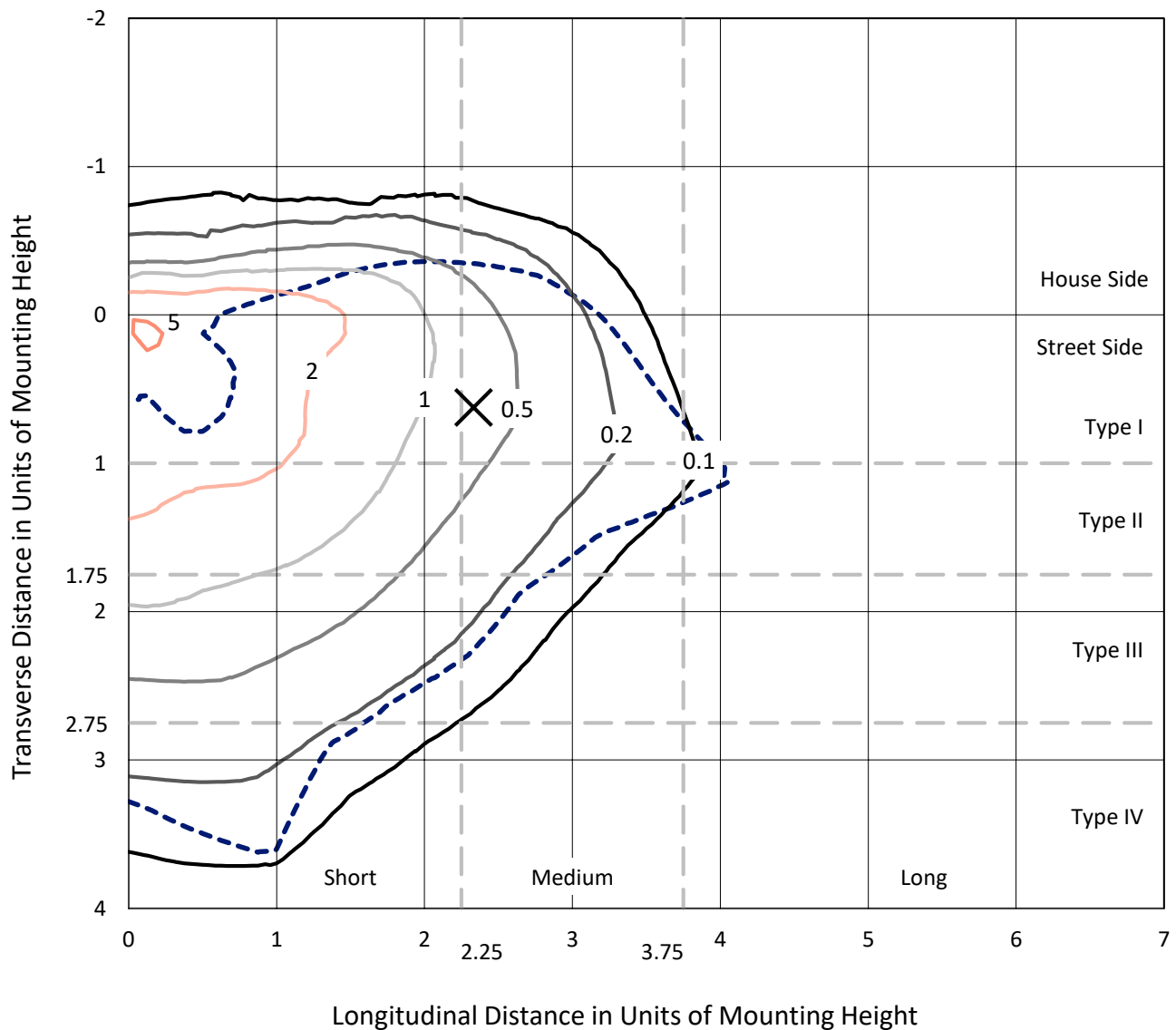


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Iso-Footcandle Lines of Horizontal Illumination

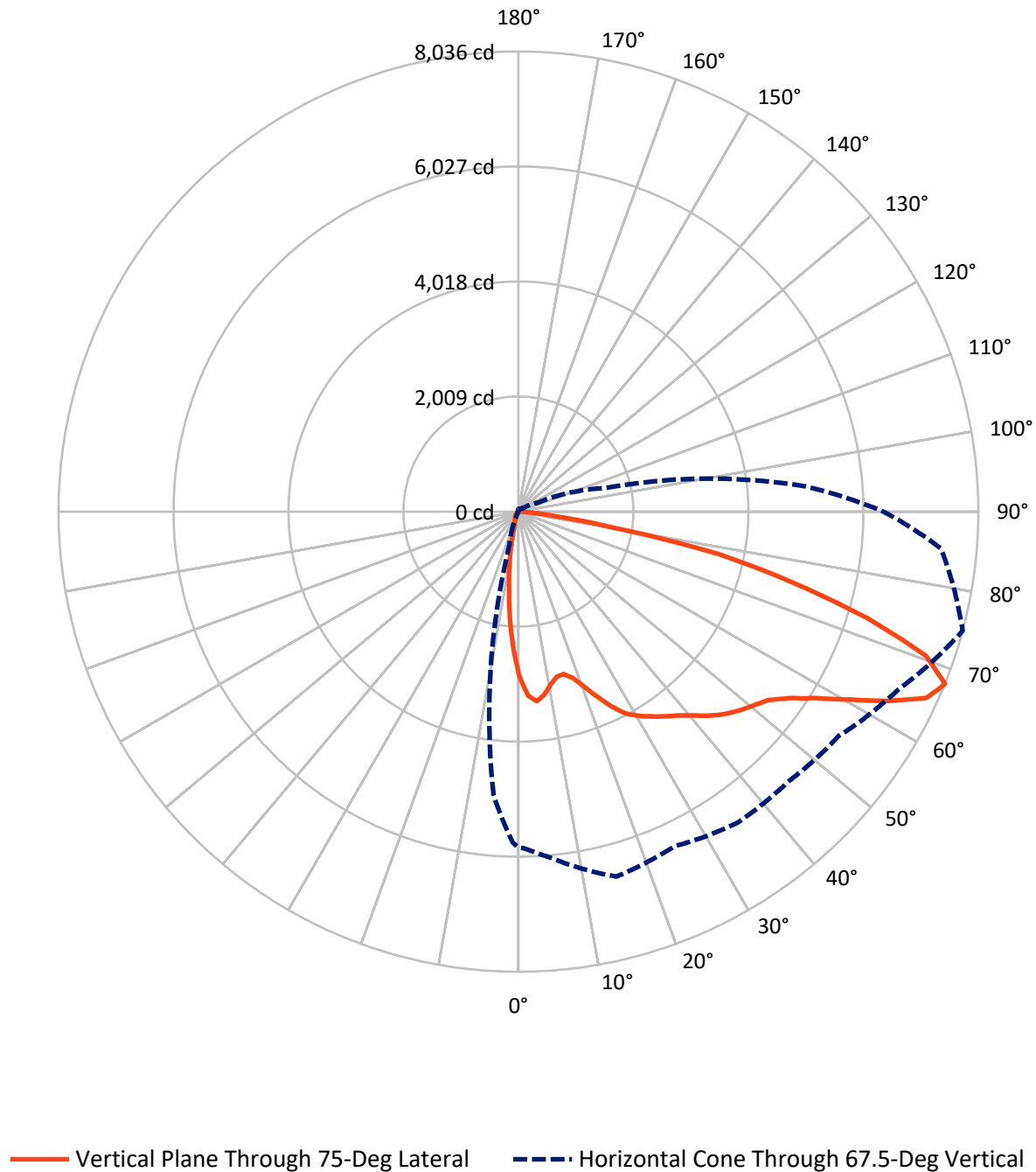
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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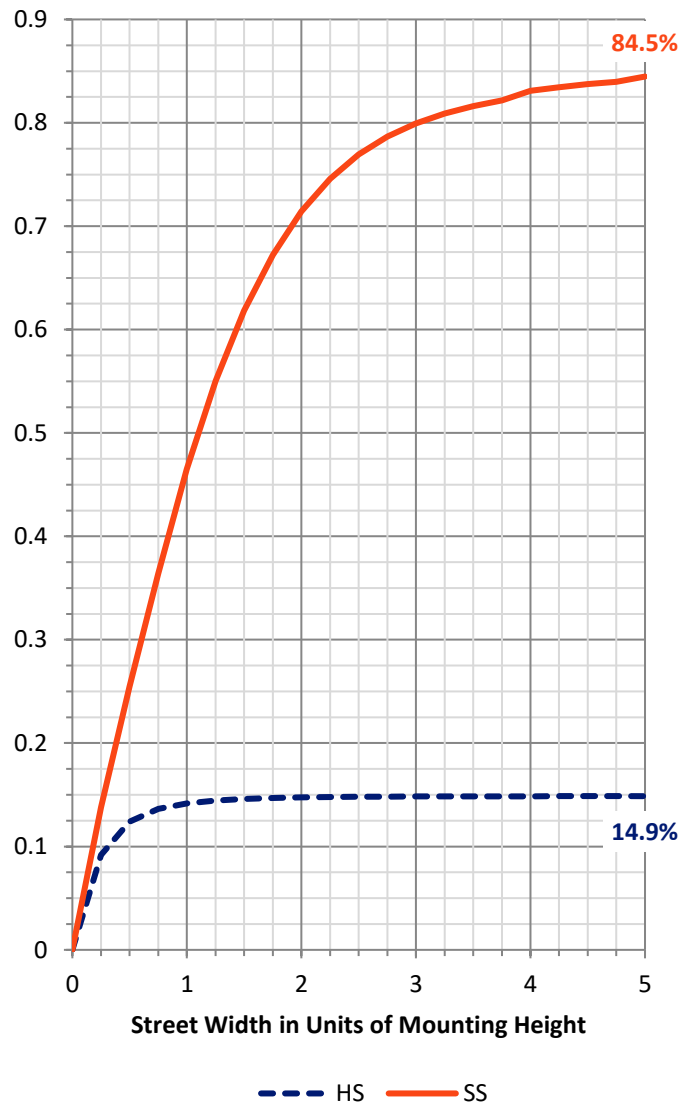
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1298.3	0.0	1298.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	7353.7	0.0	7353.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	8652.0	0.0	8652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	2.5
10°-20°	433.5	5.0
20°-30°	613.3	7.1
30°-40°	901.8	10.4
40°-50°	1296.1	15.0
50°-60°	1824.6	21.1
60°-70°	2131.0	24.6
70°-80°	1087.1	12.6
80°-90°	144.4	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°	8652.0	100.0
0°-180°	8652.0	100.0

Coefficient of Utilization



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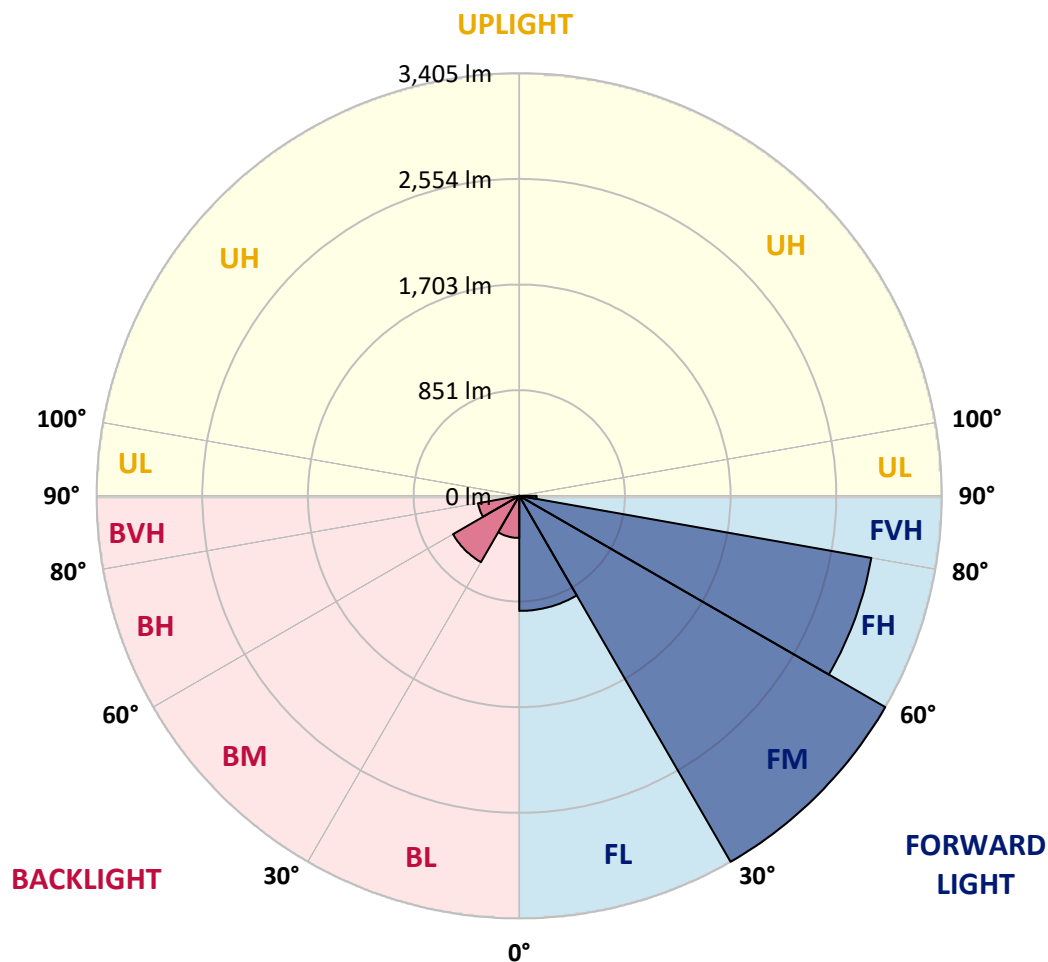
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	927.5	10.7			
FM	(30°-60°)	3405.3	39.4			
FH	(60°-80°)	2880.9	33.3			G2/5000
FVH	(80°-90°)	140.0	1.6			G2/225
BL	(0°-30°)	339.5	3.9	B1/500		
BM	(30°-60°)	617.2	7.1	B1/1000		
BH	(60°-80°)	337.2	3.9	B1/500		G1/500
BVH	(80°-90°)	4.4	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°	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6
2.5°	3146.5	3151.4	3176.8	3235.8	3300.2	3305.1	3348.5	3303.8	3288.7	3216.5	3142.0
5°	3170.2	3189.1	3276.4	3449.8	3600.2	3648.5	3683.0	3595.3	3503.0	3326.8	3138.7
7.5°	2978.8	3010.4	3147.7	3473.1	3742.0	3860.8	3883.4	3746.1	3520.3	3230.1	2947.3
10°	2733.7	2769.8	2935.4	3335.4	3704.7	3908.4	3939.5	3759.6	3435.0	3073.5	2740.3
12.5°	2535.4	2577.6	2746.9	3180.5	3576.4	3801.8	3863.3	3714.1	3361.2	2962.4	2598.9
15°	2444.0	2492.3	2670.2	3080.5	3434.2	3611.6	3662.5	3598.1	3320.2	2944.8	2566.1
17.5°	2496.4	2548.9	2732.5	3089.1	3300.6	3376.4	3417.4	3443.6	3320.2	3051.0	2662.0
20°	2711.6	2768.2	2962.4	3176.4	3189.9	3161.6	3205.5	3297.7	3358.8	3252.6	2892.4
22.5°	3009.2	3075.6	3294.8	3326.0	3135.8	3028.8	3034.6	3179.3	3428.9	3508.4	3212.0
25°	3371.9	3453.0	3676.0	3548.9	3158.3	2949.7	2947.7	3081.7	3497.3	3764.5	3568.2
27.5°	3732.1	3821.5	4017.4	3821.1	3251.4	2935.4	2931.3	3052.2	3564.1	3992.4	3957.2
30°	4034.2	4121.1	4290.0	4018.2	3351.8	2969.0	2949.3	3083.8	3603.9	4140.4	4240.8
32.5°	4280.1	4349.8	4486.3	4153.9	3459.2	3034.2	2991.5	3168.2	3671.5	4265.4	4501.4
35°	4550.6	4624.0	4678.5	4283.0	3579.7	3128.0	3067.0	3302.2	3775.6	4392.4	4787.1
37.5°	4859.2	4932.2	4925.6	4401.0	3732.6	3283.4	3244.4	3514.5	3937.5	4518.2	5106.0
40°	5161.3	5235.9	5182.6	4530.1	3912.1	3539.5	3510.8	3833.4	4154.3	4679.3	5479.8
42.5°	5444.1	5524.9	5410.9	4652.3	4126.0	3862.5	3911.7	4244.1	4425.6	4877.7	5801.9
45°	5672.0	5754.4	5602.3	4771.1	4351.4	4254.3	4402.3	4699.0	4751.9	5045.3	6019.6
47.5°	5837.6	5915.4	5735.1	4890.0	4640.0	4733.4	4991.2	5176.1	5046.6	5190.8	6174.1
50°	5943.3	6004.0	5774.0	5038.8	5018.7	5292.5	5604.8	5694.9	5324.0	5322.0	6361.8
52.5°	6010.5	6038.0	5802.7	5194.1	5413.8	5901.1	6205.6	6233.9	5609.7	5466.2	6614.7
55°	6242.1	6264.2	6006.0	5382.2	5740.4	6434.3	6749.1	6722.9	5933.1	5748.6	6913.0
57.5°	6637.2	6660.6	6426.1	5652.7	6004.8	6763.8	7143.0	7190.1	6312.2	6145.4	7232.7
60°	6835.6	6879.0	6795.4	5995.4	6261.0	6974.5	7411.4	7561.8	6786.0	6668.4	7542.6
62.5°	6655.6	6718.8	6840.1	6375.3	6515.5	7090.5	7495.0	7695.0	7271.2	7277.8	7733.6
65°	6296.6	6347.0	6552.8	6583.5	6663.0	7076.2	7288.5	7509.0	7568.4	7837.7	7723.3
67.5°	5863.0	5881.8	6056.4	6599.9	6449.1	6645.0	6667.9	6831.1	7333.5	8036.0	7413.1
70°	5238.8	5249.0	5401.5	6051.1	5542.1	5585.1	5551.1	5584.3	6304.8	7552.8	6629.8
72.5°	4216.2	4242.0	4458.8	5025.2	4037.5	3913.3	4180.5	4165.8	4855.6	6381.0	4924.0
75°	3104.2	3148.9	3476.4	4047.7	2833.7	2563.2	2758.3	2810.4	3451.8	4935.9	3079.2
77.5°	2173.5	2206.7	2523.9	2975.6	2050.9	1832.9	1762.4	1824.3	2278.4	3570.7	1551.3
80°	1252.1	1264.4	1466.9	1718.1	1382.0	1581.2	1432.4	1475.1	1365.2	1588.6	667.2
82.5°	819.3	821.4	900.5	1022.6	860.7	1000.0	740.2	946.4	839.8	638.1	217.2
85°	442.6	445.1	522.2	725.9	487.3	275.4	161.9	332.4	519.3	146.3	59.4
87.5°	48.8	44.7	157.4	263.9	135.3	25.0	8.6	37.3	83.2	9.4	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°	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6
2.5°	3103.8	3069.8	2985.0	2895.2	2823.1	2755.5	2687.4	2604.2	2539.9	2526.8	2505.4
5°	3037.4	2929.6	2751.8	2573.1	2429.2	2247.6	2132.5	2042.7	1955.0	1949.7	1932.1
7.5°	2805.5	2663.7	2413.2	2166.1	1963.6	1790.7	1616.1	1499.3	1407.4	1375.1	1355.8
10°	2582.5	2423.1	2110.3	1828.4	1647.6	1494.7	1371.8	1249.7	1139.0	1062.8	1028.3
12.5°	2426.8	2250.5	1905.8	1662.8	1533.3	1388.2	1238.2	1085.7	958.2	866.4	810.3
15°	2366.5	2178.4	1837.4	1597.2	1437.4	1253.7	1061.9	887.7	746.3	663.1	612.7
17.5°	2438.2	2219.4	1832.1	1517.3	1293.9	1065.6	853.7	648.0	514.8	451.7	419.3
20°	2620.2	2349.7	1830.0	1419.3	1123.4	842.7	578.3	426.2	345.5	310.3	295.1
22.5°	2877.6	2516.1	1846.4	1322.6	945.9	602.1	399.2	313.1	271.7	252.9	244.3
25°	3208.8	2749.7	1892.7	1234.9	779.1	449.2	311.1	262.3	233.2	218.5	212.3
27.5°	3561.6	3018.6	1964.8	1158.7	643.5	358.2	266.4	224.6	203.7	193.5	187.7
30°	3852.6	3330.1	2037.8	1073.8	545.1	312.3	243.9	204.9	180.7	174.2	168.9
32.5°	4107.2	3565.7	2089.4	997.2	480.8	277.5	220.5	183.2	166.8	154.1	148.4
35°	4370.7	3762.1	2087.8	943.5	436.5	251.2	200.8	163.9	144.3	129.5	125.0
37.5°	4656.0	3983.8	2052.1	897.6	417.2	230.3	189.8	153.7	134.0	119.3	113.5
40°	4990.0	4216.6	2015.7	854.5	411.9	213.5	182.0	145.5	124.6	110.3	104.5
42.5°	5315.4	4426.4	1983.7	822.6	389.0	213.1	175.0	139.4	117.2	103.3	96.7
45°	5575.7	4621.9	1977.6	803.3	364.8	220.5	171.3	135.3	111.5	97.5	91.4
47.5°	5792.1	4834.2	2016.9	789.8	341.8	201.2	180.3	132.4	106.2	92.6	85.7
50°	6049.5	5094.9	2109.5	767.7	317.6	181.2	206.6	133.2	101.6	87.7	80.3
52.5°	6408.5	5455.6	2245.6	730.4	284.4	162.7	203.3	134.0	96.7	82.4	75.0
55°	6811.0	5906.0	2391.9	668.5	238.1	138.5	174.2	128.3	87.3	76.6	69.7
57.5°	7234.0	6314.6	2478.8	594.7	189.4	119.7	139.4	116.8	77.1	68.9	64.3
60°	7300.3	6470.0	2439.1	504.1	150.4	104.1	103.3	118.9	68.9	60.7	57.4
62.5°	7135.2	6274.9	2246.8	423.4	125.8	91.4	84.8	103.7	62.3	54.1	50.8
65°	6817.5	5747.4	1935.3	381.6	116.8	78.3	70.5	73.0	54.5	47.1	44.3
67.5°	6375.7	5043.3	1589.0	357.8	115.6	67.2	60.2	55.3	47.1	41.0	38.5
70°	5472.4	4201.4	1267.7	344.7	112.3	56.6	50.8	45.1	39.3	34.8	32.8
72.5°	4027.7	2977.2	986.1	330.3	113.1	45.1	44.3	37.3	31.6	27.1	26.2
75°	2327.2	1700.9	646.8	267.6	107.8	34.8	36.9	26.2	22.1	18.9	18.9
77.5°	1240.2	1037.3	246.3	111.5	39.3	22.1	20.9	15.6	13.9	11.5	11.1
80°	540.6	456.6	74.2	31.1	21.7	11.9	7.8	7.0	6.1	4.9	4.5
82.5°	191.4	165.2	24.2	15.2	9.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.4	31.1	0.0	3.7	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°	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6
2.5°	2462.0	2453.0	2399.7	2401.8	2411.2	2424.7	2392.7	2407.5	2447.2	2485.4	2499.7
5°	1903.8	1905.8	1873.5	1893.5	1911.6	1923.9	1872.2	1873.0	1904.6	1947.6	1970.2
7.5°	1341.5	1338.2	1339.8	1387.8	1421.8	1397.2	1416.5	1349.7	1353.8	1384.5	1361.5
10°	997.2	952.1	926.7	962.8	1000.0	986.5	953.3	931.6	946.8	980.8	978.3
12.5°	783.6	718.9	680.8	654.9	685.7	660.3	659.5	640.6	620.1	623.8	678.3
15°	589.4	542.2	497.2	455.8	454.9	446.3	402.5	353.3	349.2	351.7	379.9
17.5°	405.3	389.4	370.9	335.3	325.8	289.8	247.1	227.5	217.6	222.1	231.6
20°	284.8	278.7	280.8	261.5	248.0	213.5	188.5	180.7	179.1	183.6	188.1
22.5°	236.1	225.0	223.8	215.2	201.6	176.6	163.1	158.6	156.6	160.7	163.9
25°	206.6	195.5	191.0	185.7	171.3	154.1	145.9	141.8	139.8	142.2	144.3
27.5°	182.0	171.7	167.6	163.9	150.0	137.7	131.2	127.5	125.8	126.6	128.7
30°	163.5	154.5	149.2	144.7	132.8	124.2	118.4	114.8	113.1	113.1	115.2
32.5°	144.3	139.4	134.4	128.7	117.6	111.9	106.2	102.1	100.4	100.8	102.5
35°	120.1	118.4	119.7	114.3	104.9	100.0	94.3	89.8	88.5	88.9	90.6
37.5°	106.6	99.2	103.7	100.8	95.5	88.9	81.6	77.5	75.4	76.6	77.5
40°	98.0	88.9	85.7	88.5	87.7	77.1	70.5	66.4	64.8	65.2	66.0
42.5°	90.6	79.9	72.5	72.1	77.1	67.2	60.2	56.6	54.5	54.5	55.3
45°	83.6	72.1	63.1	56.2	64.8	57.0	50.4	47.1	44.7	44.7	45.1
47.5°	78.3	65.6	54.9	45.9	48.8	46.7	41.4	38.1	35.7	35.7	36.1
50°	73.4	59.0	47.5	38.5	36.5	38.5	33.6	29.9	28.3	27.9	28.7
52.5°	68.0	52.5	40.6	32.8	28.7	29.1	26.2	23.8	21.7	21.7	22.5
55°	62.7	47.1	35.2	27.9	23.8	21.7	20.9	19.3	17.6	17.6	18.4
57.5°	57.4	41.4	29.9	23.0	18.9	17.2	17.2	16.0	14.8	14.8	15.6
60°	52.5	35.7	24.6	18.9	14.8	14.3	14.8	13.5	12.7	12.7	13.5
62.5°	46.7	30.3	20.1	15.6	11.9	11.5	12.7	11.9	11.1	11.1	11.9
65°	39.8	25.8	16.0	11.9	9.0	9.0	10.7	9.8	9.0	9.0	9.8
67.5°	33.6	21.7	12.3	8.6	6.6	7.0	9.0	8.2	7.8	7.8	8.6
70°	27.9	16.8	8.6	5.3	3.7	5.3	7.0	7.0	7.0	7.0	7.8
72.5°	20.9	11.5	4.9	2.0	1.6	3.7	5.7	6.6	6.1	6.1	7.4
75°	13.5	6.6	1.6	0.0	0.0	2.0	4.5	5.3	5.3	4.9	6.1
77.5°	7.8	2.0	0.0	0.0	0.0	0.0	2.9	2.5	2.0	1.6	2.9
80°	2.0	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°	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6	2902.6
2.5°	2557.5	2605.9	2673.9	2746.0	2857.1	2945.2	3031.7	3105.9	3134.6	3146.5
5°	2024.3	2095.2	2194.8	2322.7	2523.1	2703.4	2886.2	3070.2	3150.2	3170.2
7.5°	1452.5	1543.1	1669.8	1830.0	2064.9	2298.5	2553.8	2823.9	2947.7	2978.8
10°	1075.1	1185.7	1330.8	1499.7	1723.9	1964.0	2242.3	2550.9	2692.3	2733.7
12.5°	762.7	912.3	1106.6	1311.9	1506.2	1720.6	2002.1	2342.3	2490.7	2535.4
15°	448.0	592.7	822.6	1097.6	1346.4	1563.6	1849.7	2235.4	2398.9	2444.0
17.5°	257.0	329.1	502.9	809.5	1147.2	1448.0	1801.7	2262.0	2454.6	2496.4
20°	196.3	219.3	289.8	521.3	914.4	1334.5	1801.7	2412.8	2650.1	2711.6
22.5°	171.7	188.5	217.2	311.1	673.0	1212.8	1822.6	2630.9	2941.1	3009.2
25°	152.5	167.6	192.2	234.0	459.0	1068.1	1872.2	2898.5	3283.8	3371.9
27.5°	136.5	150.8	173.0	204.9	313.9	893.5	1939.0	3212.4	3661.7	3732.1
30°	122.1	135.7	155.7	178.3	242.2	695.5	1996.0	3508.4	3958.4	4034.2
32.5°	108.6	120.9	138.9	155.7	198.4	514.4	2002.1	3742.8	4204.7	4280.1
35°	95.9	107.0	123.4	136.5	164.4	406.2	1906.6	3946.1	4451.0	4550.6
37.5°	83.6	94.3	108.6	118.4	144.7	331.2	1760.7	4172.7	4767.0	4859.2
40°	72.1	81.6	96.3	102.9	136.9	254.5	1602.1	4410.5	5076.9	5161.3
42.5°	61.5	70.5	84.8	97.5	120.1	190.2	1430.8	4633.4	5355.6	5444.1
45°	51.2	60.7	75.0	103.3	99.6	142.2	1247.6	4781.4	5575.7	5672.0
47.5°	41.4	52.1	71.7	98.4	79.5	104.5	1102.5	4921.5	5742.5	5837.6
50°	33.2	43.9	80.7	87.7	65.2	79.9	1041.9	5047.0	5851.9	5943.3
52.5°	27.1	36.9	76.2	67.2	54.5	66.0	1074.6	5250.3	5953.2	6010.5
55°	22.5	29.1	45.9	46.7	46.3	56.2	1115.2	5542.1	6215.1	6242.1
57.5°	19.7	23.4	32.0	36.1	38.9	50.0	1116.0	5960.9	6620.4	6637.2
60°	16.8	20.5	26.6	29.1	33.6	44.7	1075.5	6107.3	6779.8	6835.6
62.5°	14.8	18.0	22.1	24.2	28.3	40.2	980.4	5895.4	6561.0	6655.6
65°	13.1	16.4	18.4	20.5	25.0	36.1	823.8	5471.6	6197.8	6296.6
67.5°	11.5	14.3	16.4	18.4	22.5	32.0	606.6	4979.3	5781.0	5863.0
70°	10.2	12.7	14.8	16.4	19.7	27.1	368.1	4225.2	5204.8	5238.8
72.5°	9.8	11.5	13.5	14.8	17.2	23.8	186.5	3105.1	4160.9	4216.2
75°	8.6	10.2	12.3	13.1	15.2	20.5	75.8	2039.4	3015.3	3104.2
77.5°	7.0	9.4	11.1	11.9	13.1	16.8	38.5	1303.3	2116.1	2173.5
80°	2.5	7.0	9.4	9.8	11.1	12.3	25.4	713.6	1227.5	1252.1
82.5°	0.0	4.5	7.4	7.0	7.8	9.4	16.4	339.4	810.3	819.3
85°	0.0	2.0	5.7	4.5	3.3	6.6	5.7	74.2	425.0	442.6
87.5°	0.0	0.0	0.4	2.0	1.6	2.5	0.8	0.4	38.5	48.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)