

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: McGRAW-EDISON

Report Number: P534166

Luminaire Tested: **GALN-SA9C-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34894 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

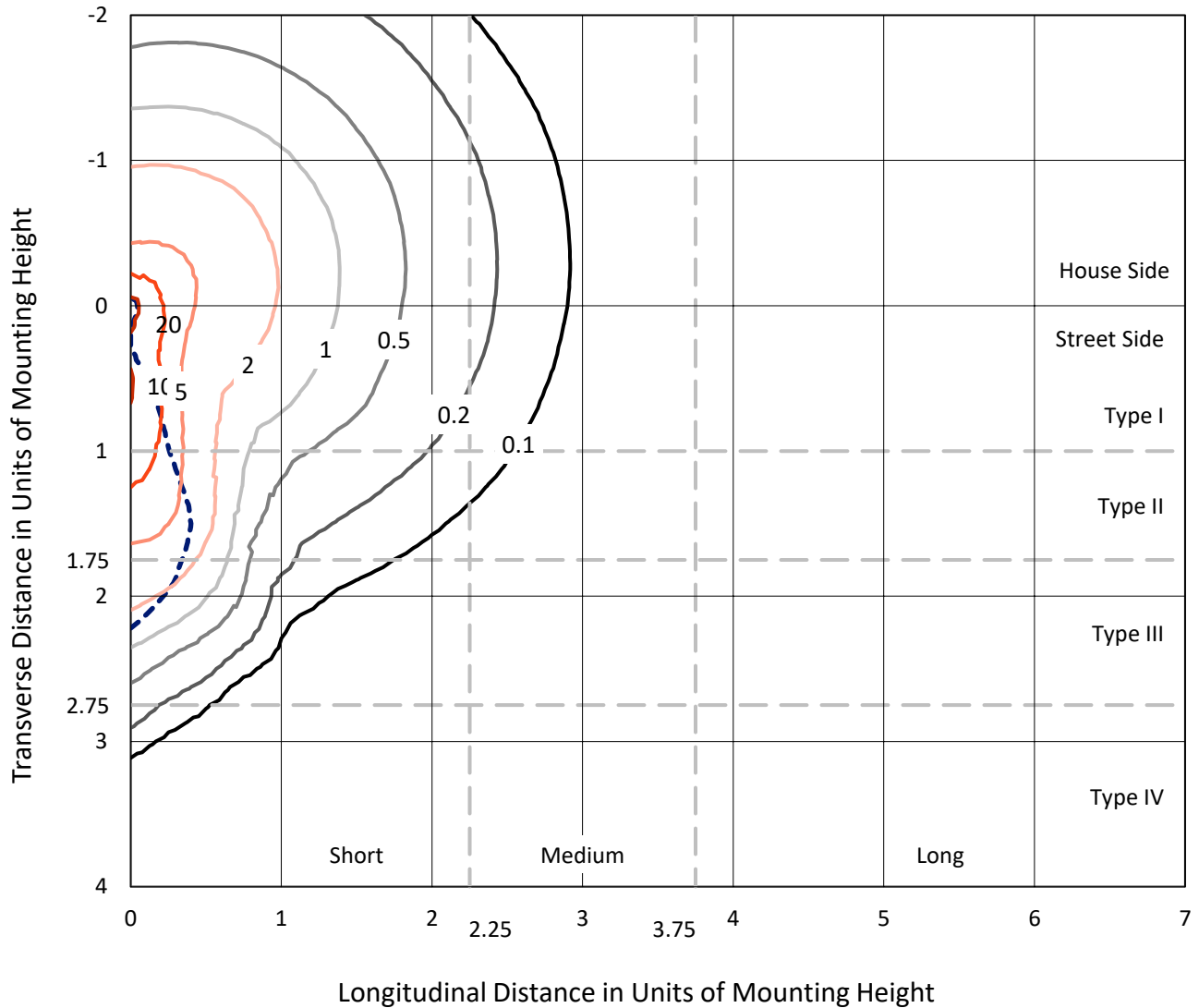
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

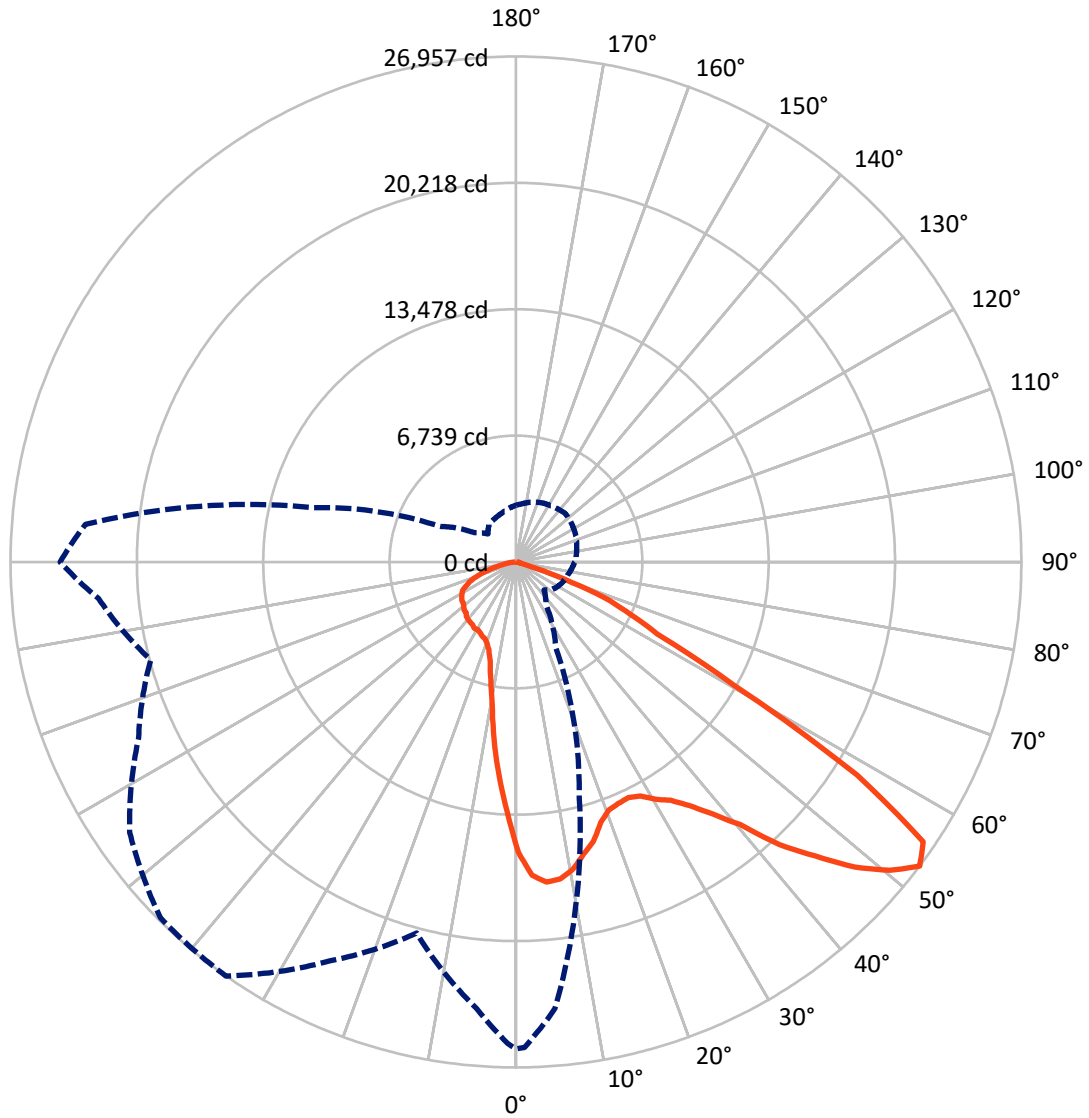
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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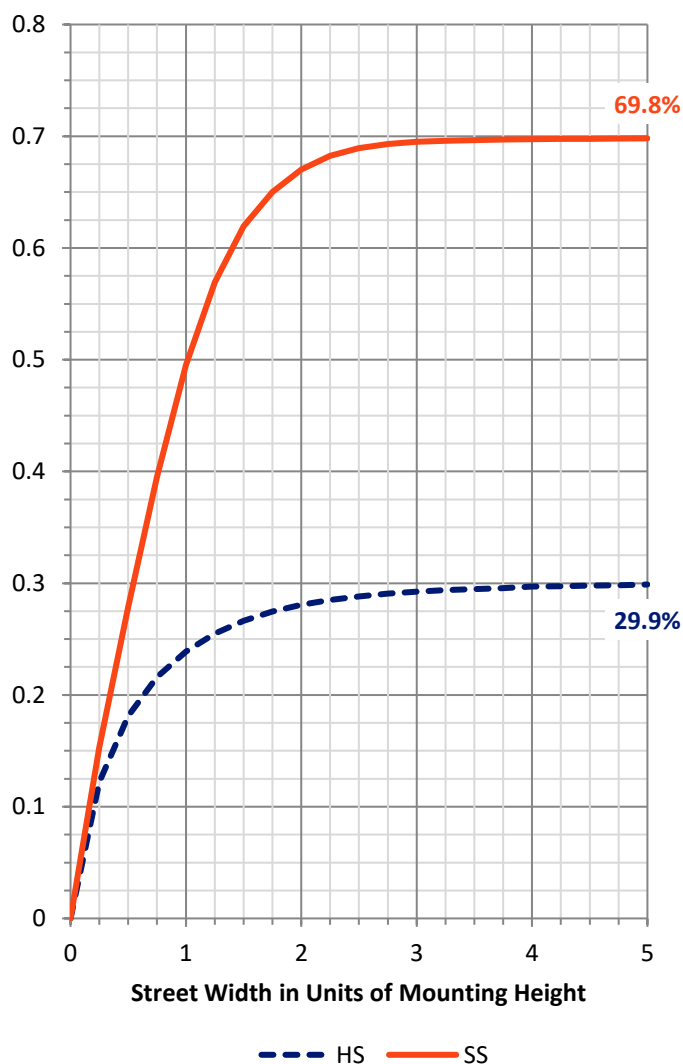
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10519.1	0.0	10519.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	24374.9	0.0	24374.9
	% Fixture	69.9	0.0	69.9
Total	Lumens	34894.0	0.0	34894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1181.5	3.4
10°-20°	2561.2	7.3
20°-30°	3869.8	11.1
30°-40°	5592.0	16.0
40°-50°	7442.0	21.3
50°-60°	8324.1	23.9
60°-70°	4691.4	13.4
70°-80°	1045.8	3.0
80°-90°	186.2	0.5
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°	34894.0	100.0
0°-180°	34894.0	100.0

Coefficient of Utilization



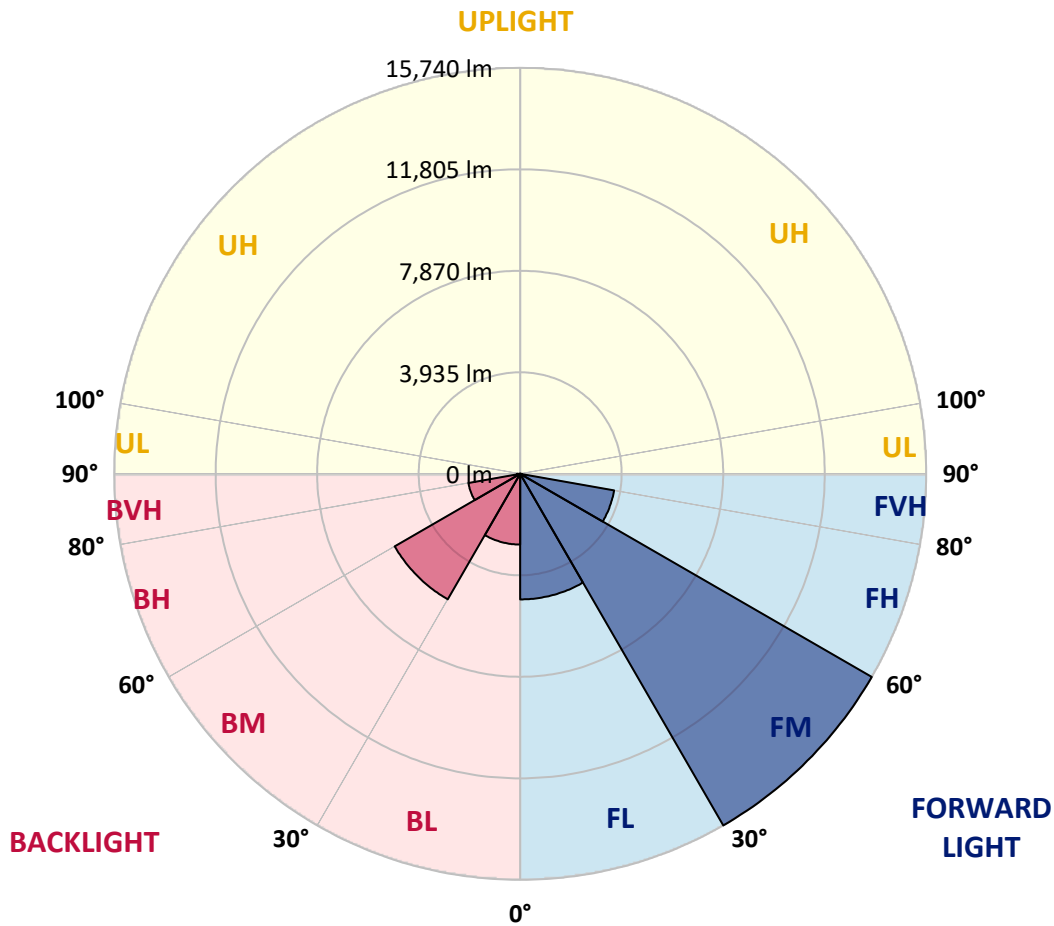
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4869.4	14.0			
FM (30°-60°)	15739.9	45.1			
FH (60°-80°)	3698.2	10.6			G2/5000
FVH (80°-90°)	67.4	0.2			G1/100
BL (0°-30°)	2743.1	7.9	B4/5000		
BM (30°-60°)	5618.2	16.1	B4/8500		
BH (60°-80°)	2038.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	118.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2
2.5°	15744.1	15997.0	15723.9	15238.4	14894.4	14580.9	14252.1	14186.4	13756.5	13680.6	13367.1
5°	14848.9	14793.3	14459.5	13822.2	13119.2	12482.0	12011.6	11556.5	11248.0	10888.9	10863.6
7.5°	13761.6	13437.9	13245.7	12279.7	11409.8	10408.4	9978.5	9285.6	9068.2	8744.5	8577.6
10°	12790.5	12552.8	12102.7	11136.7	9922.9	9260.3	8800.1	8425.9	8173.0	7839.2	7419.4
12.5°	12310.0	12213.9	11708.2	10211.2	9310.9	8602.9	8279.2	7915.0	7485.2	6949.1	6741.7
15°	12396.0	12072.3	11688.0	10034.1	8790.0	8107.2	7591.4	7136.2	6584.9	6074.1	5775.7
17.5°	13038.3	12790.5	12021.8	10145.4	8592.8	7606.5	6670.9	5998.2	5502.6	5042.4	4835.0
20°	14302.7	13943.6	13078.8	10287.0	8167.9	6908.6	5836.4	5007.0	4475.9	4233.2	4162.4
22.5°	15703.6	15491.2	14110.5	10605.7	7829.1	6261.2	4951.3	4121.9	3924.6	3858.9	3990.4
25°	17408.0	16856.8	15713.8	11126.6	7566.1	5710.0	4202.8	3742.6	3641.4	3707.2	3858.9
27.5°	18702.8	18556.1	16836.5	11617.2	7207.0	5047.4	3783.0	3479.6	3509.9	3575.7	3717.3
30°	20240.3	19496.8	17923.9	11956.0	6883.3	4592.2	3489.7	3408.8	3439.1	3550.4	3621.2
32.5°	21165.8	20887.6	18606.7	12466.8	6509.0	4197.8	3262.1	3186.2	3231.8	3398.7	3565.6
35°	22344.2	21792.9	19451.3	12598.3	6246.1	4041.0	3100.3	3044.6	3150.8	3267.2	3454.3
37.5°	23719.8	23340.5	20619.6	12507.3	6104.4	3879.1	2963.7	2938.4	3014.3	3176.1	3393.6
40°	24534.1	24417.8	21231.5	12562.9	5881.9	3737.5	2806.9	2837.3	2994.1	3120.5	3332.9
42.5°	25318.0	24559.4	22136.8	12542.7	5740.3	3545.3	2822.1	2786.7	2908.1	3054.8	3257.1
45°	25490.0	24736.4	22349.2	12401.1	5568.3	3358.2	2705.8	2721.0	2867.6	3049.7	3181.2
47.5°	25378.7	24822.4	22743.7	12360.6	5406.5	3226.7	2533.8	2715.9	2801.9	2948.5	3135.7
50°	25302.8	25272.5	23077.5	12552.8	5189.0	3019.3	2326.5	2650.1	2736.1	2882.8	3085.1
52.5°	25970.4	25904.7	23912.0	13058.6	5017.1	2796.8	2114.0	2483.2	2690.6	2832.2	3029.5
55°	26375.0	26086.8	25343.3	13680.6	4728.8	2503.5	1967.4	2275.9	2579.3	2705.8	2908.1
57.5°	23724.9	23527.7	22925.8	12770.3	4243.3	2119.1	1785.3	2063.5	2427.6	2624.9	2832.2
60°	19739.6	19431.0	17888.5	10853.5	3130.6	1648.8	1674.0	1896.6	2387.2	2463.0	2705.8
62.5°	18611.7	17848.0	15749.2	8734.4	2402.3	1416.1	1502.1	1744.8	2174.7	2301.2	2543.9
65°	14768.0	14201.6	11268.2	6306.7	1608.3	1229.0	1370.6	1572.9	1876.3	2124.2	2346.7
67.5°	9245.2	8704.0	6013.4	2983.9	1122.8	1052.0	1223.9	1436.3	1684.2	1906.7	2154.5
70°	4829.9	4238.2	2776.6	1077.3	773.8	859.8	1021.6	1223.9	1466.7	1648.8	1840.9
72.5°	1800.5	1461.6	905.3	465.3	536.1	657.5	829.4	976.1	1148.1	1370.6	1476.8
75°	278.2	237.7	232.6	283.2	364.1	475.4	591.7	738.4	890.1	1031.7	1102.5
77.5°	131.5	126.4	141.6	187.1	242.8	338.9	429.9	571.5	692.9	783.9	824.4
80°	86.0	80.9	91.0	126.4	182.1	252.9	343.9	440.0	551.3	627.1	617.0
82.5°	50.6	55.6	55.6	86.0	126.4	182.1	247.8	333.8	409.7	475.4	434.9
85°	30.3	25.3	25.3	50.6	86.0	146.7	207.4	141.6	146.7	146.7	166.9
87.5°	10.1	10.1	10.1	5.1	10.1	10.1	15.2	25.3	30.3	35.4	45.5
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°	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2
2.5°	13356.9	13513.7	13458.1	13260.9	13412.6	13437.9	13336.7	13685.7	13751.4	13645.2	13675.6
5°	10828.2	10868.6	10959.7	11151.9	11288.4	11450.3	11450.3	11460.4	11323.8	11667.7	11566.6
7.5°	8436.0	8461.3	8567.5	8977.1	9093.4	9402.0	9533.5	9442.4	9169.3	9053.0	9149.1
10°	7282.9	7136.2	7100.8	7151.4	7414.3	7545.8	7657.1	7626.8	7581.2	7490.2	7389.1
12.5°	6514.1	6407.9	6321.9	6200.5	6215.7	6342.1	6428.1	6357.3	6377.6	6397.8	6428.1
15°	5679.6	5603.7	5558.2	5376.2	5355.9	5441.9	5472.3	5512.7	5588.6	5593.6	5558.2
17.5°	4794.5	4728.8	4829.9	4931.1	4860.3	4865.3	4921.0	4956.4	4936.2	4845.1	4799.6
20°	4187.6	4258.4	4359.6	4455.7	4531.6	4577.1	4597.3	4541.7	4475.9	4288.8	4283.7
22.5°	4010.6	4101.7	4187.6	4334.3	4405.1	4521.4	4415.2	4288.8	4197.8	4106.7	4000.5
25°	3879.1	3955.0	4126.9	4182.6	4319.1	4415.2	4339.4	4212.9	4056.1	3924.6	3843.7
27.5°	3783.0	3869.0	3980.3	4132.0	4238.2	4293.8	4218.0	4167.4	4005.6	3848.8	3732.5
30°	3722.3	3813.4	4015.7	4142.1	4233.2	4278.7	4147.2	4086.5	3970.2	3838.7	3737.5
32.5°	3681.9	3762.8	3934.8	4096.6	4157.3	4157.3	4177.5	4106.7	3944.9	3722.3	3636.4
35°	3550.4	3661.7	3803.3	3990.4	4101.7	4167.4	4066.3	3985.3	3879.1	3651.5	3494.8
37.5°	3474.5	3550.4	3732.5	3909.5	4005.6	4076.4	4035.9	3894.3	3752.7	3565.6	3439.1
40°	3393.6	3515.0	3676.8	3843.7	3949.9	4020.7	3990.4	3823.5	3651.5	3474.5	3388.5
42.5°	3338.0	3418.9	3585.8	3772.9	3899.4	4035.9	3944.9	3737.5	3616.1	3373.4	3277.3
45°	3292.5	3424.0	3601.0	3676.8	3808.3	3949.9	3788.1	3661.7	3520.0	3343.0	3262.1
47.5°	3236.8	3358.2	3474.5	3676.8	3737.5	3803.3	3772.9	3570.6	3449.2	3257.1	3201.4
50°	3216.6	3262.1	3474.5	3585.8	3671.8	3737.5	3656.6	3504.9	3388.5	3191.3	3069.9
52.5°	3135.7	3221.6	3358.2	3504.9	3611.1	3692.0	3560.5	3464.4	3307.6	3100.3	3024.4
55°	3034.5	3085.1	3327.9	3479.6	3535.2	3590.8	3540.3	3383.5	3221.6	3009.2	2933.4
57.5°	2903.0	3019.3	3216.6	3429.0	3499.8	3530.2	3449.2	3322.8	3120.5	2933.4	2812.0
60°	2766.5	2887.9	3105.3	3277.3	3348.1	3459.4	3338.0	3262.1	3029.5	2822.1	2690.6
62.5°	2629.9	2766.5	2928.3	3145.8	3206.5	3252.0	3221.6	3115.4	2928.3	2695.7	2533.8
65°	2468.1	2569.2	2771.5	2882.8	2923.3	3029.5	2923.3	2882.8	2715.9	2493.4	2356.8
67.5°	2225.3	2311.3	2488.3	2594.5	2624.9	2670.4	2665.3	2619.8	2432.7	2280.9	2159.6
70°	1947.2	2023.0	2134.3	2260.7	2275.9	2331.5	2280.9	2270.8	2149.5	1942.1	1876.3
72.5°	1562.8	1633.6	1780.3	1835.9	1840.9	1861.2	1835.9	1800.5	1770.1	1552.7	1486.9
75°	1198.6	1239.1	1309.9	1360.5	1360.5	1385.8	1370.6	1335.2	1254.3	1117.7	1052.0
77.5°	834.5	875.0	966.0	996.3	991.3	1001.4	955.9	920.5	799.1	728.3	672.7
80°	606.9	632.2	677.7	697.9	703.0	718.2	662.5	632.2	561.4	480.5	455.2
82.5°	440.0	455.2	460.2	485.5	485.5	460.2	445.1	414.7	364.1	313.6	293.3
85°	182.1	187.1	192.2	222.5	227.6	273.1	252.9	237.7	207.4	177.0	161.8
87.5°	45.5	50.6	65.7	55.6	65.7	65.7	70.8	80.9	80.9	65.7	65.7
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°	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2
2.5°	13791.9	13832.4	14348.2	14414.0	14666.9	14924.8	15445.7	15820.0	16123.4	16320.7	16376.3
5°	11672.8	11930.7	12168.4	12552.8	12901.8	13397.4	13968.9	14677.0	15567.1	16022.3	16204.3
7.5°	9139.0	9442.4	9786.3	10160.6	10671.4	11561.5	12325.2	13144.5	14282.5	14752.8	15465.9
10°	7459.9	7798.7	8253.9	8542.2	9159.2	10008.9	10899.0	11844.7	12932.1	13609.8	14434.2
12.5°	6595.0	6873.2	7293.0	7899.9	8360.1	8911.4	9573.9	10767.5	12325.2	12967.5	13534.0
15°	5639.2	5947.7	6433.2	7105.8	7657.1	8314.6	9058.0	10357.8	12016.7	13008.0	13488.4
17.5°	4850.2	5072.7	5583.5	6165.1	6797.3	7515.5	8582.6	10337.6	12340.4	13609.8	14393.7
20°	4304.0	4334.3	4612.5	5108.1	5967.9	6903.5	8289.3	10236.5	13377.2	14646.6	15637.9
22.5°	3960.0	3929.7	3934.8	4354.5	4956.4	6301.7	7829.1	10580.4	14555.6	16295.4	16963.0
25°	3788.1	3707.2	3656.6	3747.6	4293.8	5588.6	7480.1	11035.5	15825.0	17655.9	18475.2
27.5°	3697.1	3555.4	3454.3	3469.5	3869.0	5229.5	7262.6	11232.8	17084.4	19552.4	19840.7
30°	3661.7	3484.6	3338.0	3287.4	3550.4	4728.8	6797.3	11571.6	18212.2	20594.3	20842.1
32.5°	3535.2	3317.7	3176.1	3130.6	3236.8	4288.8	6463.5	11814.4	19208.5	21727.2	21641.2
35°	3388.5	3206.5	3029.5	2943.5	3019.3	4005.6	6195.5	11698.1	20381.9	22607.2	22561.7
37.5°	3373.4	3135.7	2989.0	2847.4	2842.3	3656.6	5831.3	11809.3	21130.4	24185.1	23563.1
40°	3241.9	3090.2	2898.0	2781.6	2715.9	3479.6	5477.3	11546.4	22227.9	24822.4	24210.4
42.5°	3246.9	3019.3	2852.4	2715.9	2650.1	3221.6	5234.5	11475.5	22612.2	25859.2	24513.9
45°	3166.0	2943.5	2801.9	2640.0	2604.6	3024.4	5001.9	11146.8	23289.9	25909.8	24134.6
47.5°	3085.1	2887.9	2736.1	2543.9	2463.0	2953.6	4819.8	10873.7	22935.9	25434.3	23608.6
50°	3029.5	2801.9	2660.3	2523.7	2296.1	2832.2	4582.1	10808.0	22440.3	24792.0	22632.5
52.5°	2933.4	2731.1	2584.4	2478.2	2114.0	2721.0	4491.1	11192.3	23047.2	24311.6	22349.2
55°	2842.3	2635.0	2447.8	2240.5	1962.3	2427.6	4238.2	11551.4	23932.3	25419.2	23633.9
57.5°	2746.2	2549.0	2346.7	2098.9	1815.7	2124.2	3975.2	11617.2	22273.4	23492.2	22435.2
60°	2619.8	2366.9	2215.2	1891.5	1658.9	1760.0	3150.8	10241.5	17276.5	19618.2	19653.6
62.5°	2478.2	2205.1	2073.6	1694.3	1497.0	1517.3	2569.2	8607.9	14014.4	16239.7	17205.7
65°	2291.1	2028.1	1871.3	1567.8	1380.7	1315.0	1881.4	6306.7	10646.1	13174.9	14272.4
67.5°	2048.3	1800.5	1603.2	1365.5	1234.0	1127.8	1284.6	3550.4	6286.5	8845.6	9179.4
70°	1790.4	1578.0	1370.6	1173.3	1026.7	950.8	940.7	1572.9	3004.2	4759.1	5416.6
72.5°	1411.1	1259.3	1092.4	945.8	849.7	738.4	672.7	652.4	1016.6	1937.0	2675.4
75°	1011.5	885.1	789.0	692.9	622.1	561.4	510.8	465.3	424.8	485.5	667.6
77.5°	637.2	591.7	515.9	490.6	450.1	434.9	414.7	389.4	359.1	338.9	338.9
80°	429.9	399.5	374.3	369.2	354.0	349.0	354.0	328.7	298.4	273.1	283.2
82.5°	288.3	283.2	278.2	273.1	278.2	283.2	293.3	288.3	263.0	247.8	252.9
85°	172.0	182.1	192.2	202.3	222.5	197.2	161.8	136.6	121.4	111.3	106.2
87.5°	65.7	91.0	80.9	75.9	80.9	75.9	70.8	65.7	55.6	50.6	50.6
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°	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2	15486.2
2.5°	16745.5	16846.6	16932.6	16912.4	16735.4	16497.7	16401.6	15911.0	15809.9	15744.1
5°	16973.1	17559.8	17686.2	17610.3	17150.1	16568.5	16002.0	15283.9	14864.1	14848.9
7.5°	16553.3	17276.5	17504.1	17676.1	17064.1	16052.6	15081.6	14004.3	13741.3	13761.6
10°	15486.2	16639.3	17200.7	17377.7	16674.7	15799.7	14454.4	13362.0	12800.6	12790.5
12.5°	14894.4	15799.7	15956.5	16204.3	15997.0	15111.9	14090.3	12866.4	12320.2	12310.0
15°	14368.5	14965.2	15010.8	15359.7	15471.0	14874.2	14186.4	12881.5	12441.5	12396.0
17.5°	14828.7	14414.0	14242.0	14287.5	14616.3	14833.7	14742.7	13741.3	13291.2	13038.3
20°	15137.2	14211.7	13690.7	13741.3	14130.8	14924.8	15572.1	14985.5	14272.4	14302.7
22.5°	15961.6	14242.0	13427.8	13372.1	13989.1	15400.2	16507.8	16558.4	15870.5	15703.6
25°	17195.6	14591.0	13346.8	13331.7	13923.4	15911.0	17600.2	18419.5	17716.5	17408.0
27.5°	18186.9	15137.2	13599.7	13650.3	14130.8	16325.7	18530.8	19618.2	19082.1	18702.8
30°	19056.8	15703.6	13953.7	13721.1	14687.1	16543.2	18930.4	20983.7	20553.8	20240.3
32.5°	19415.9	16507.8	14515.1	14130.8	15147.3	16806.2	19759.8	22308.8	21939.6	21165.8
35°	20022.8	16957.9	14818.6	14788.2	15951.5	17438.4	20149.2	23183.7	23032.0	22344.2
37.5°	20508.3	17413.1	15895.8	15562.0	17054.0	18500.5	20776.4	24392.5	24043.5	23719.8
40°	20882.6	18227.4	16902.3	17342.3	18409.4	19466.5	21352.9	24468.4	25474.8	24534.1
42.5°	20538.6	18955.6	18556.1	19608.1	20619.6	20569.0	21418.7	25055.0	25808.6	25318.0
45°	20452.7	20189.7	21170.8	22126.7	22359.4	21484.4	20948.3	24407.7	25707.4	25490.0
47.5°	20245.3	21403.5	23112.9	24670.7	24316.6	22096.4	20386.9	24291.3	25768.1	25378.7
50°	20174.5	21666.5	24549.3	26066.5	25854.1	22627.4	20123.9	23542.8	25338.2	25302.8
52.5°	20169.4	22207.6	25146.1	26825.2	26956.7	23467.0	20483.0	23922.1	25672.0	25970.4
55°	20397.0	22035.7	25070.2	26405.4	26354.8	23092.7	20523.5	24175.0	26081.7	26375.0
57.5°	19238.9	19739.6	20690.4	21747.4	21474.3	19127.6	18328.5	22349.2	23937.3	23724.9
60°	16614.0	15046.2	13974.0	13923.4	13392.4	12659.0	15000.6	19946.9	19946.9	19739.6
62.5°	14550.5	9877.4	8486.5	8092.1	8471.4	9316.0	14469.6	19400.7	18849.4	18611.7
65°	12724.8	7540.8	6134.8	6023.5	6681.0	7955.5	13083.8	16528.0	15557.0	14768.0
67.5°	8188.1	5522.8	4561.9	4364.7	5158.7	5841.5	8709.1	10165.6	9553.7	9245.2
70°	5280.1	3595.9	2538.9	2382.1	2690.6	3601.0	5563.3	5927.4	5037.3	4829.9
72.5°	2498.4	1552.7	890.1	733.3	824.4	1375.6	2200.0	2366.9	1967.4	1800.5
75°	794.0	571.5	364.1	313.6	298.4	354.0	505.8	389.4	283.2	278.2
77.5°	354.0	338.9	288.3	242.8	212.4	177.0	146.7	121.4	126.4	131.5
80°	293.3	268.0	237.7	212.4	177.0	136.6	106.2	80.9	80.9	86.0
82.5°	257.9	232.6	207.4	177.0	151.7	111.3	80.9	55.6	50.6	50.6
85°	111.3	131.5	141.6	151.7	121.4	91.0	55.6	35.4	30.3	30.3
87.5°	45.5	40.5	35.4	30.3	25.3	25.3	20.2	15.2	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)