

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: P452436

Luminaire Tested: **GALN-SA3B-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10764 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

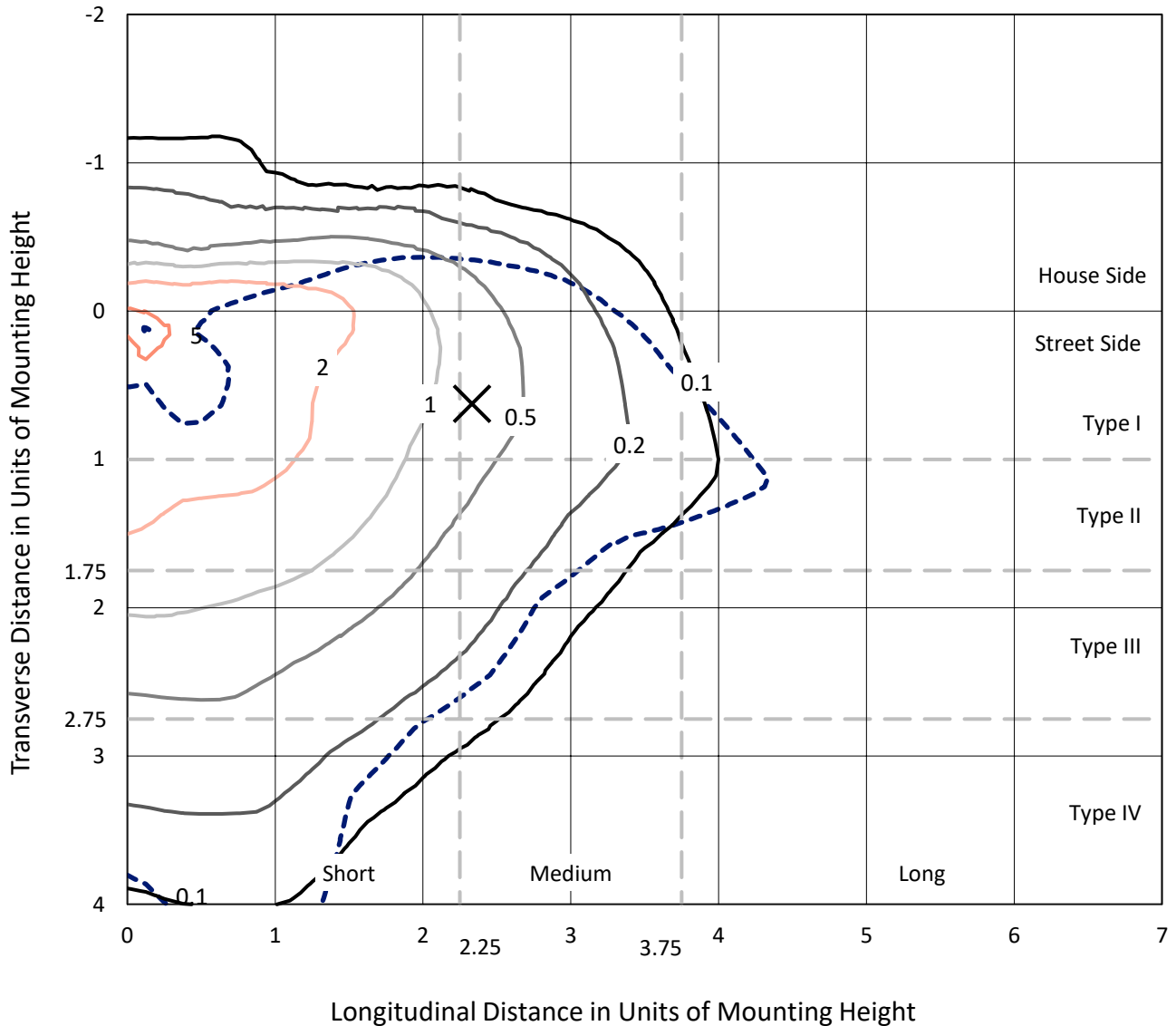
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

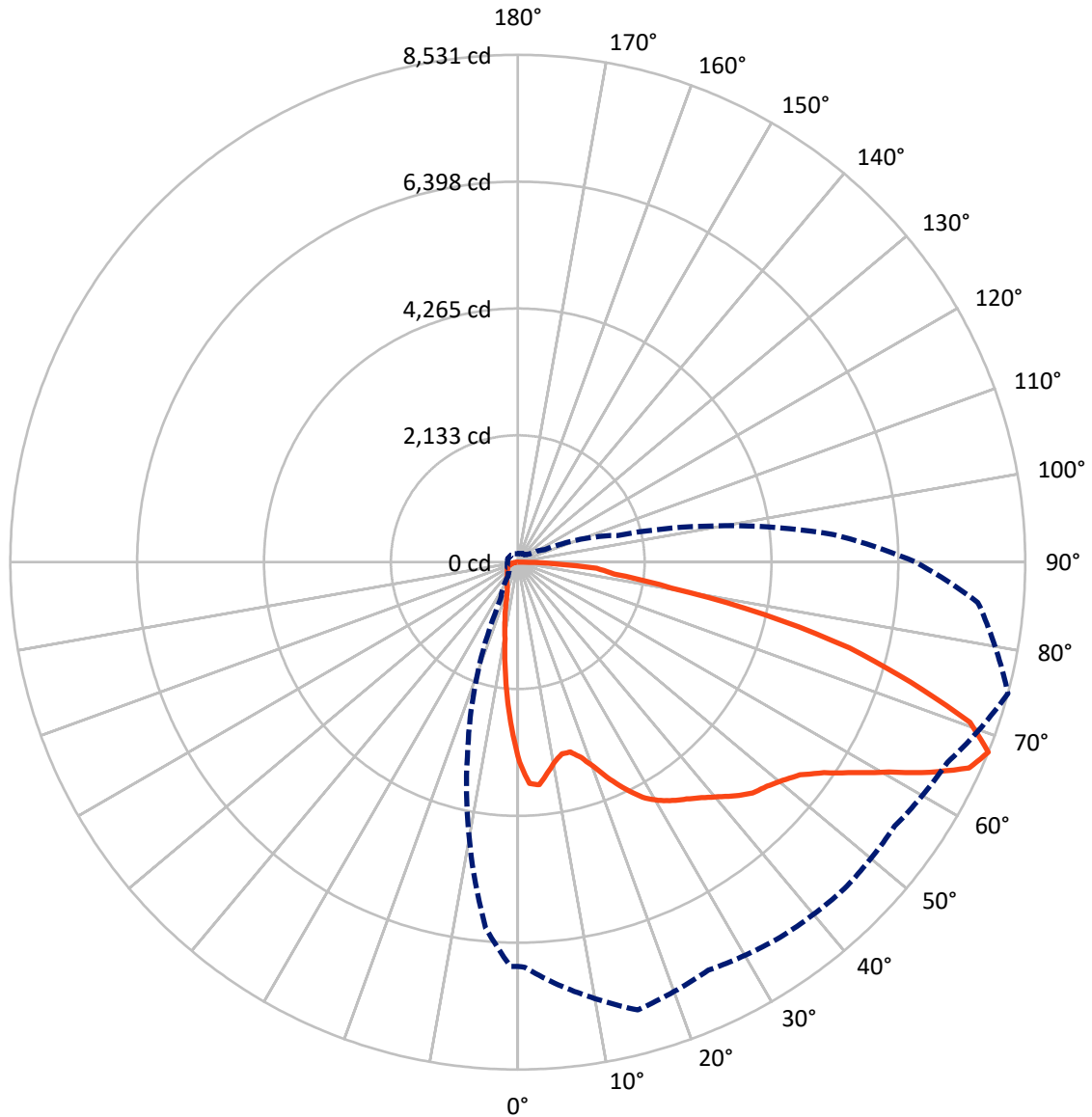
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1819.4	0.0	1819.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	8944.7	0.0	8944.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	10764.0	0.0	10764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	2.4
10°-20°	532.0	4.9
20°-30°	765.5	7.1
30°-40°	1102.5	10.2
40°-50°	1548.7	14.4
50°-60°	2159.9	20.1
60°-70°	2568.0	23.9
70°-80°	1512.4	14.1
80°-90°	319.8	3.0
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°	10764.0	100.0
0°-180°	10764.0	100.0

Coefficient of Utilization



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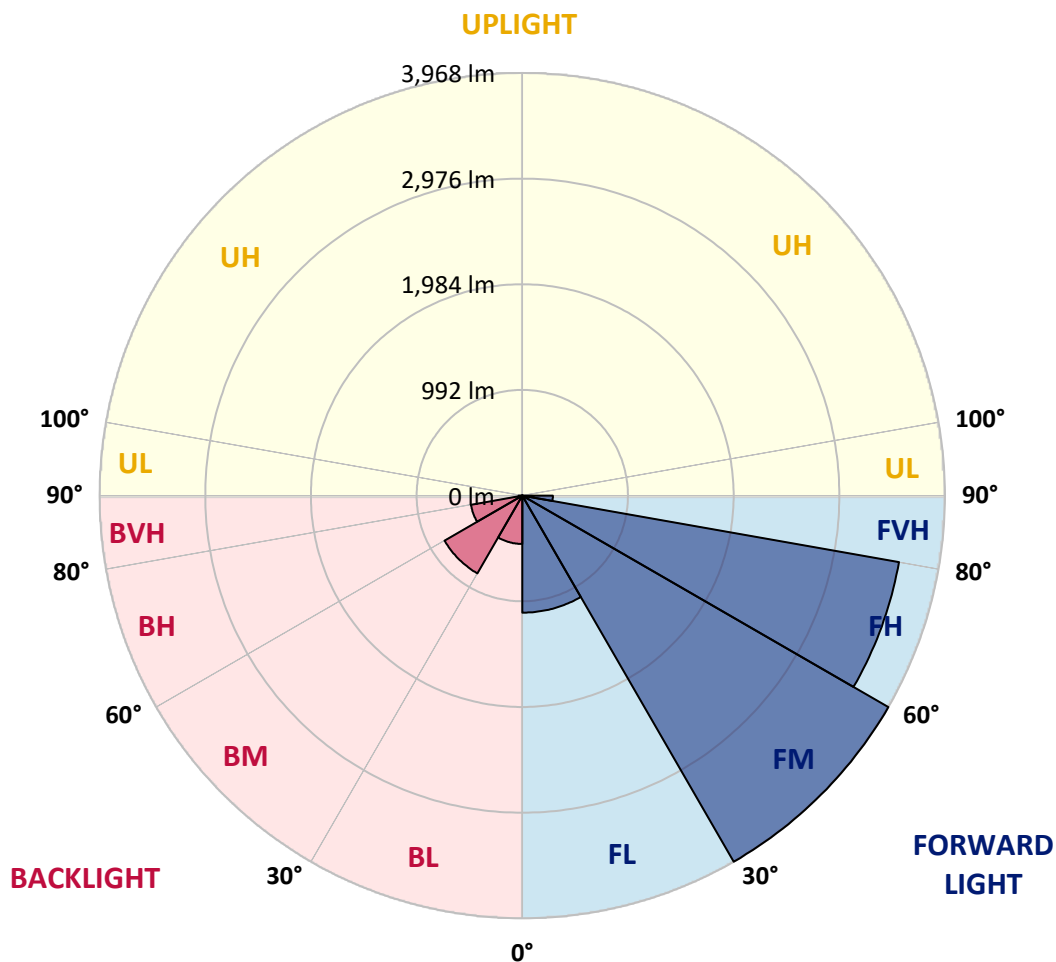
CATALOG NUMBER: GALN-SA3B-827-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1098.7	10.2			
FM	(30°-60°)	3968.3	36.9			
FH	(60°-80°)	3590.9	33.4			G2/5000
FVH	(80°-90°)	286.7	2.7			G3/500
BL	(0°-30°)	453.8	4.2	B1/500		
BM	(30°-60°)	842.9	7.8	B1/1000		
BH	(60°-80°)	489.6	4.5	B1/500		G1/500
BVH	(80°-90°)	33.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9
2.5°	3625.9	3630.7	3661.8	3752.2	3814.4	3837.1	3853.0	3823.3	3794.3	3723.9	3617.6
5°	3614.9	3643.2	3723.9	3926.9	4087.0	4156.0	4176.7	4087.7	3940.7	3759.8	3542.4
7.5°	3403.7	3441.6	3565.9	3906.2	4188.5	4350.0	4328.6	4167.8	3902.7	3580.4	3276.6
10°	3153.1	3195.2	3345.0	3756.4	4120.1	4342.4	4342.4	4146.4	3794.3	3411.2	3061.3
12.5°	2954.3	2998.5	3169.7	3602.4	3977.9	4188.5	4223.7	4055.3	3716.3	3304.3	2919.8
15°	2888.7	2931.5	3115.8	3509.3	3827.5	3955.9	3967.6	3912.4	3678.4	3311.8	2913.6
17.5°	2970.2	3025.4	3211.8	3536.9	3689.4	3697.0	3706.0	3749.5	3682.5	3450.6	3039.2
20°	3205.5	3264.9	3459.6	3625.9	3568.6	3489.9	3494.8	3606.6	3731.5	3679.8	3339.5
22.5°	3545.2	3596.9	3796.4	3782.6	3517.5	3355.3	3321.5	3477.5	3804.0	3965.5	3659.0
25°	3911.7	3972.4	4201.6	4015.2	3532.0	3275.3	3253.9	3401.6	3879.2	4232.7	4028.3
27.5°	4331.4	4390.7	4571.6	4249.9	3608.0	3269.1	3243.5	3394.7	3946.9	4479.8	4381.1
30°	4643.4	4697.9	4820.7	4447.3	3701.2	3310.5	3278.7	3449.2	4004.9	4648.9	4724.8
32.5°	4888.4	4945.0	5012.0	4570.2	3824.0	3385.7	3327.0	3548.6	4080.8	4778.0	4979.5
35°	5143.8	5210.7	5205.9	4679.2	3938.6	3472.7	3415.4	3692.2	4200.2	4890.5	5302.5
37.5°	5467.5	5494.4	5459.9	4777.3	4076.0	3629.4	3597.6	3905.5	4370.0	5026.4	5680.1
40°	5796.1	5849.9	5672.5	4896.0	4243.0	3924.1	3920.7	4220.9	4571.6	5185.9	6046.0
42.5°	6077.7	6123.3	5871.3	4999.5	4445.3	4283.7	4310.0	4644.0	4835.9	5370.9	6340.0
45°	6289.6	6330.3	6054.9	5099.6	4711.7	4699.3	4853.9	5097.5	5169.3	5537.2	6512.6
47.5°	6469.8	6509.1	6182.6	5251.5	5040.9	5195.6	5464.8	5570.4	5454.4	5632.5	6705.8
50°	6621.6	6633.4	6270.3	5432.3	5449.6	5803.7	6064.6	6132.9	5736.0	5769.2	6873.6
52.5°	6779.7	6764.5	6421.5	5660.1	5891.3	6380.7	6570.5	6641.6	6005.9	5937.6	7117.9
55°	7133.8	7148.3	6760.4	5947.2	6337.9	6947.4	7197.3	7129.0	6304.8	6247.5	7428.5
57.5°	7561.8	7549.3	7237.3	6396.6	6792.8	7474.8	7661.2	7551.4	6703.8	6673.4	7743.3
60°	7728.1	7744.7	7636.3	6879.8	7241.5	7936.6	8127.1	7956.6	7182.1	7168.3	7980.7
62.5°	7561.1	7654.3	7727.4	7309.8	7623.9	8276.2	8465.3	8270.7	7681.2	7781.3	8147.1
65°	7228.4	7248.4	7497.6	7674.3	7808.2	8332.1	8430.8	8327.3	8098.1	8339.7	8139.5
67.5°	6796.3	6813.5	7105.5	7793.7	7570.7	7697.0	7766.1	7735.7	7969.0	8530.9	7764.7
70°	6384.9	6371.1	6679.6	7489.3	6590.6	6398.7	6456.0	6360.7	6876.3	8063.6	7029.6
72.5°	5584.2	5633.9	5965.2	6643.0	5218.3	4906.3	5031.3	4784.9	5288.7	6906.0	5705.7
75°	4374.2	4385.9	4938.8	5575.2	3936.5	3444.4	3613.5	3510.6	4051.1	5760.9	3940.0
77.5°	3028.8	3002.6	3596.9	4258.2	2807.3	2521.5	2524.3	2475.3	2828.7	4241.6	2676.8
80°	1923.7	1883.7	2251.6	2630.6	1929.3	2063.9	1996.2	1994.2	1841.6	2616.8	1618.7
82.5°	1039.5	1083.7	1422.6	1649.0	1384.0	1595.2	1462.0	1419.2	1263.9	1638.0	1035.4
85°	473.5	514.9	758.6	1121.7	1051.3	1063.0	710.3	838.0	1045.7	1330.1	552.9
87.5°	46.2	59.4	156.7	529.4	358.9	283.0	105.6	203.6	263.0	472.8	44.2
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°	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9
2.5°	3574.1	3538.3	3416.1	3315.3	3208.3	3126.9	3020.6	2949.5	2900.5	2826.6	2817.6
5°	3409.9	3322.2	3109.6	2892.9	2705.8	2565.0	2422.1	2291.0	2213.7	2189.5	2158.4
7.5°	3133.1	2985.4	2712.0	2463.5	2248.9	2039.0	1877.5	1762.9	1686.3	1641.4	1587.6
10°	2905.3	2734.1	2401.4	2097.0	1920.3	1789.8	1647.6	1524.8	1430.2	1349.5	1305.3
12.5°	2752.1	2558.8	2184.7	1937.5	1800.9	1662.1	1495.8	1357.7	1218.3	1126.5	1087.2
15°	2705.8	2501.5	2117.7	1858.2	1662.1	1480.6	1294.2	1114.1	976.0	889.1	860.1
17.5°	2819.0	2571.9	2117.0	1752.6	1499.2	1282.5	1043.7	874.6	733.1	668.2	647.5
20°	3030.2	2707.2	2123.2	1648.3	1322.5	1017.4	759.3	620.5	552.9	525.3	514.9
22.5°	3325.0	2913.6	2141.9	1545.5	1129.3	781.4	568.8	498.4	474.2	469.4	467.3
25°	3688.0	3169.0	2204.7	1453.0	966.4	596.4	475.6	443.8	430.0	425.2	424.5
27.5°	4022.1	3498.9	2280.6	1373.6	809.0	514.2	430.0	403.1	389.3	388.6	390.0
30°	4323.8	3775.0	2344.1	1284.6	689.6	456.9	400.3	373.4	360.3	359.6	363.8
32.5°	4584.7	4002.1	2391.0	1196.9	623.3	421.7	373.4	344.4	333.4	331.3	333.4
35°	4863.5	4228.5	2369.6	1128.6	585.3	392.8	353.4	325.1	312.0	305.8	305.8
37.5°	5181.8	4461.8	2333.1	1072.0	568.1	368.6	336.2	308.5	295.4	289.2	288.5
40°	5529.0	4695.1	2282.7	1021.6	550.8	354.1	324.4	295.4	279.6	273.3	272.0
42.5°	5835.4	4894.6	2241.3	988.4	522.5	356.9	314.1	285.8	265.7	257.5	256.8
45°	6101.9	5095.5	2233.7	969.1	499.1	352.7	311.3	278.2	254.7	245.7	244.4
47.5°	6310.3	5304.6	2277.2	958.1	473.5	330.6	329.3	273.3	245.0	235.4	234.0
50°	6564.3	5601.4	2376.6	935.3	450.0	309.9	347.9	272.7	237.4	225.0	221.6
52.5°	6902.6	5988.0	2511.2	894.6	416.2	290.6	332.0	272.7	228.5	216.1	211.9
55°	7414.0	6480.8	2643.0	837.3	368.6	265.1	299.6	264.4	215.4	204.3	201.6
57.5°	7753.0	6841.1	2727.2	757.9	309.2	246.4	258.2	251.3	202.2	190.5	190.5
60°	7770.2	6937.8	2687.2	657.8	272.0	229.2	224.3	253.3	190.5	178.1	176.7
62.5°	7571.4	6701.0	2478.7	568.1	251.9	210.5	202.9	222.3	178.8	166.4	164.3
65°	7260.8	6097.0	2117.0	525.3	240.9	194.0	182.9	182.2	166.4	154.6	151.9
67.5°	6690.0	5328.1	1739.4	500.4	235.4	175.3	165.0	161.5	151.9	142.2	140.8
70°	5848.5	4462.5	1395.0	490.1	232.6	156.0	147.7	143.6	135.3	127.7	127.0
72.5°	4550.2	3619.7	1151.3	483.2	231.2	138.1	129.1	123.6	118.7	111.8	111.8
75°	3268.4	2663.0	878.7	435.6	214.0	118.7	109.1	105.6	98.7	93.2	94.6
77.5°	2060.4	1793.3	578.4	320.3	165.7	95.3	87.0	84.9	79.4	71.8	76.6
80°	1391.6	1261.1	337.5	201.6	104.2	69.7	67.0	66.3	60.1	51.8	52.5
82.5°	947.0	929.1	175.3	114.6	60.1	40.7	39.3	40.7	33.8	27.6	27.6
85°	370.0	505.3	82.8	44.9	19.3	6.2	9.0	9.7	5.5	2.8	3.5
87.5°	6.9	51.8	2.1	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°	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9
2.5°	2803.8	2797.6	2808.0	2763.8	2772.8	2789.3	2797.6	2802.4	2870.8	2854.9	2898.4
5°	2187.4	2181.2	2221.2	2226.8	2247.5	2243.3	2263.4	2268.2	2293.0	2302.0	2362.7
7.5°	1591.0	1618.0	1663.5	1687.0	1722.2	1733.2	1722.9	1748.4	1696.6	1733.9	1745.0
10°	1278.4	1245.9	1226.6	1280.4	1287.3	1338.4	1317.7	1301.1	1331.5	1332.9	1361.9
12.5°	1064.4	994.7	948.4	963.6	980.2	1002.3	1005.7	1038.8	1060.9	1081.6	1098.9
15°	834.5	810.4	768.3	747.5	771.0	780.0	801.4	829.0	852.5	858.7	882.1
17.5°	640.6	644.7	637.8	625.4	639.9	646.8	648.2	648.8	655.1	650.9	685.4
20°	515.6	530.1	547.4	550.1	555.0	558.4	552.2	528.7	529.4	543.9	555.0
22.5°	466.6	469.4	488.7	494.9	510.1	503.9	485.9	474.9	473.5	477.0	482.5
25°	428.0	432.1	445.9	455.6	467.3	456.3	443.1	432.8	431.4	434.9	440.4
27.5°	393.4	399.7	412.1	421.7	432.8	422.4	410.0	401.0	400.3	399.7	403.1
30°	365.8	372.7	381.7	392.8	400.3	391.4	379.6	374.8	374.1	372.7	374.1
32.5°	338.2	349.3	358.2	363.8	371.4	364.5	355.5	352.7	347.9	343.7	341.7
35°	307.2	318.9	332.7	339.6	347.2	340.3	334.1	322.3	314.1	313.4	314.8
37.5°	289.2	294.0	305.1	316.8	324.4	321.0	309.2	297.5	295.4	295.4	296.8
40°	273.3	275.4	280.2	295.4	309.2	298.9	284.4	280.9	280.9	280.2	280.9
42.5°	257.5	259.5	259.5	271.3	293.4	276.8	265.7	265.7	265.7	266.4	268.5
45°	243.0	243.7	243.0	251.3	272.0	258.2	250.6	252.6	254.0	255.4	256.8
47.5°	230.5	231.2	230.5	237.4	247.8	242.3	238.1	240.9	243.7	245.7	247.1
50°	219.5	218.8	220.2	224.3	229.2	230.5	227.8	231.9	233.3	236.1	239.5
52.5°	209.8	209.1	210.5	212.6	219.5	219.5	219.5	223.0	225.7	228.5	233.3
55°	198.8	199.5	201.6	204.3	213.3	211.9	212.6	215.4	218.1	222.3	225.0
57.5°	188.4	189.8	192.6	196.7	205.7	205.0	205.7	207.1	210.5	212.6	215.4
60°	176.7	179.5	182.9	185.7	194.7	194.0	197.4	200.2	202.2	202.2	203.6
62.5°	165.0	169.1	172.6	174.6	184.3	185.0	189.8	191.9	193.3	191.9	194.0
65°	153.2	159.4	160.8	163.6	173.3	173.9	179.5	184.3	182.9	181.5	185.0
67.5°	141.5	149.1	148.4	151.9	161.5	162.9	167.7	176.0	173.3	171.9	174.6
70°	128.4	133.9	134.6	136.7	149.8	147.7	155.3	162.9	160.8	161.5	161.5
72.5°	113.9	118.7	118.7	122.9	136.7	133.2	139.4	147.7	147.7	147.0	147.0
75°	96.6	99.4	102.2	108.4	122.9	118.7	122.9	130.5	131.8	130.5	130.5
77.5°	78.0	82.1	83.5	91.8	102.2	101.5	105.6	109.1	111.8	110.4	110.4
80°	55.2	59.4	64.9	73.9	80.1	82.1	84.2	87.0	88.4	88.4	89.7
82.5°	31.1	37.3	42.1	51.1	53.8	64.2	63.5	65.6	63.5	55.9	62.1
85°	6.9	13.1	18.6	23.5	26.9	37.3	39.3	44.2	36.6	33.8	33.8
87.5°	0.0	0.0	0.0	0.0	0.0	5.5	11.0	15.2	13.1	11.0	11.0
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°	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9	3362.9
2.5°	2935.0	2995.0	3067.5	3192.4	3280.1	3374.7	3469.9	3571.4	3598.3	3625.9
5°	2379.3	2497.3	2561.5	2729.3	2905.3	3128.9	3311.8	3512.0	3595.5	3614.9
7.5°	1802.3	1882.3	2050.8	2220.6	2438.7	2673.4	2953.6	3265.6	3362.9	3403.7
10°	1428.8	1537.9	1685.6	1867.8	2059.0	2311.7	2627.8	2992.3	3130.3	3153.1
12.5°	1216.2	1337.7	1498.5	1691.1	1872.0	2062.5	2381.4	2757.6	2905.3	2954.3
15°	972.6	1119.6	1305.3	1508.2	1704.9	1913.4	2236.4	2660.9	2831.4	2888.7
17.5°	764.1	882.8	1083.7	1303.9	1537.2	1800.9	2206.1	2707.2	2917.0	2970.2
20°	584.6	669.5	838.7	1071.3	1344.6	1689.7	2213.7	2881.8	3133.1	3205.5
22.5°	505.3	548.8	651.6	873.2	1179.0	1593.1	2244.7	3121.3	3424.4	3545.2
25°	457.6	480.4	538.4	683.4	1020.9	1499.2	2315.8	3443.7	3831.6	3911.7
27.5°	416.9	433.5	469.4	573.6	877.3	1412.3	2398.6	3801.2	4211.9	4331.4
30°	378.3	400.3	434.2	509.4	785.5	1332.9	2502.9	4091.1	4532.2	4643.4
32.5°	348.6	370.7	401.7	464.5	707.5	1249.4	2565.0	4345.9	4793.8	4888.4
35°	324.4	343.1	375.5	428.6	648.2	1185.9	2552.6	4548.1	5047.2	5143.8
37.5°	307.2	323.0	355.5	394.8	603.3	1119.6	2546.4	4815.2	5355.7	5467.5
40°	291.3	307.9	337.5	372.7	558.4	1041.6	2549.8	5080.3	5684.3	5796.1
42.5°	278.9	297.5	321.7	366.5	512.2	978.8	2549.8	5310.8	5970.0	6077.7
45°	268.5	288.5	312.0	365.8	475.6	931.2	2532.6	5508.9	6197.8	6289.6
47.5°	259.5	281.6	315.4	353.4	466.6	896.6	2517.4	5667.7	6383.5	6469.8
50°	253.3	279.6	335.5	338.9	469.4	886.3	2590.5	5867.9	6547.1	6621.6
52.5°	248.5	280.2	334.8	317.5	464.5	893.2	2743.1	6180.6	6774.2	6779.7
55°	238.8	279.6	317.5	293.4	444.5	904.9	2939.1	6634.7	7129.7	7133.8
57.5°	229.2	272.0	294.7	272.7	403.8	904.9	3175.2	7064.8	7558.3	7561.8
60°	219.5	283.0	258.8	254.7	350.7	888.4	3424.4	7253.9	7692.9	7728.1
62.5°	209.8	285.1	231.2	238.8	312.0	848.3	3610.0	7044.8	7510.7	7561.1
65°	198.8	229.9	213.3	222.3	292.0	781.4	3551.4	6661.7	7168.3	7228.4
67.5°	185.7	194.7	194.0	205.0	285.1	682.7	3242.1	6177.1	6799.7	6796.3
70°	169.8	174.6	176.7	188.4	272.0	606.0	2701.7	5548.3	6307.6	6384.9
72.5°	153.2	157.4	159.4	169.8	258.8	562.6	2097.0	4682.0	5463.4	5584.2
75°	135.3	138.1	140.8	149.8	245.0	498.4	1493.7	3574.1	4184.3	4374.2
77.5°	116.7	116.7	120.1	129.1	206.4	411.4	1002.3	2507.0	2834.9	3028.8
80°	94.6	95.3	93.9	103.5	151.9	281.6	569.5	1674.6	1886.5	1923.7
82.5°	72.5	70.4	71.1	75.9	113.2	191.9	303.7	1040.2	1060.2	1039.5
85°	45.6	45.6	44.2	49.7	72.5	100.1	165.7	637.1	497.7	473.5
87.5°	18.6	15.2	17.3	20.0	34.5	40.7	64.9	131.1	50.4	46.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)