

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: P454990

Luminaire Tested: **GALN-SA6A-827-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17184 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 182
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

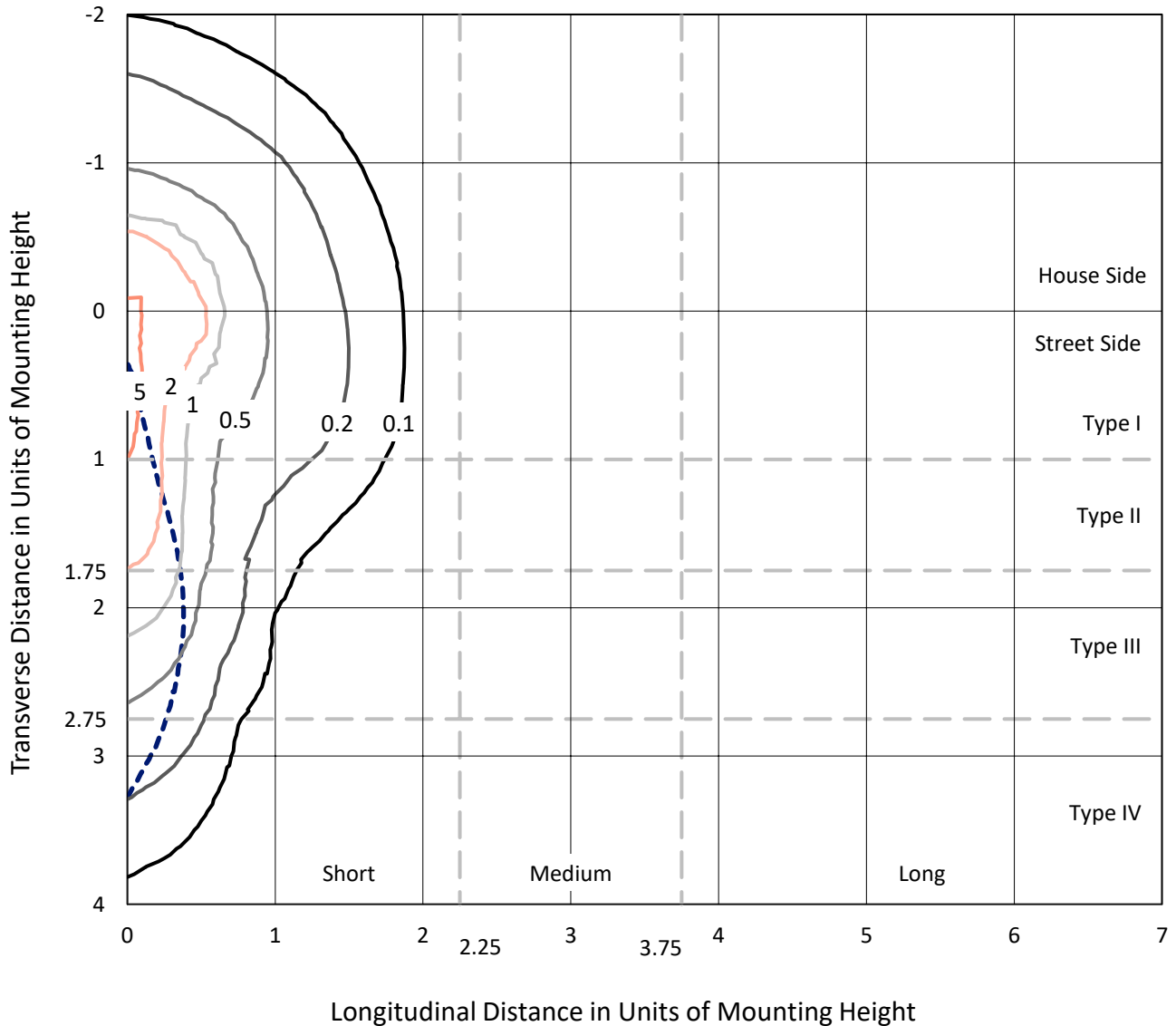




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Iso-Footcandle Lines of Horizontal Illumination

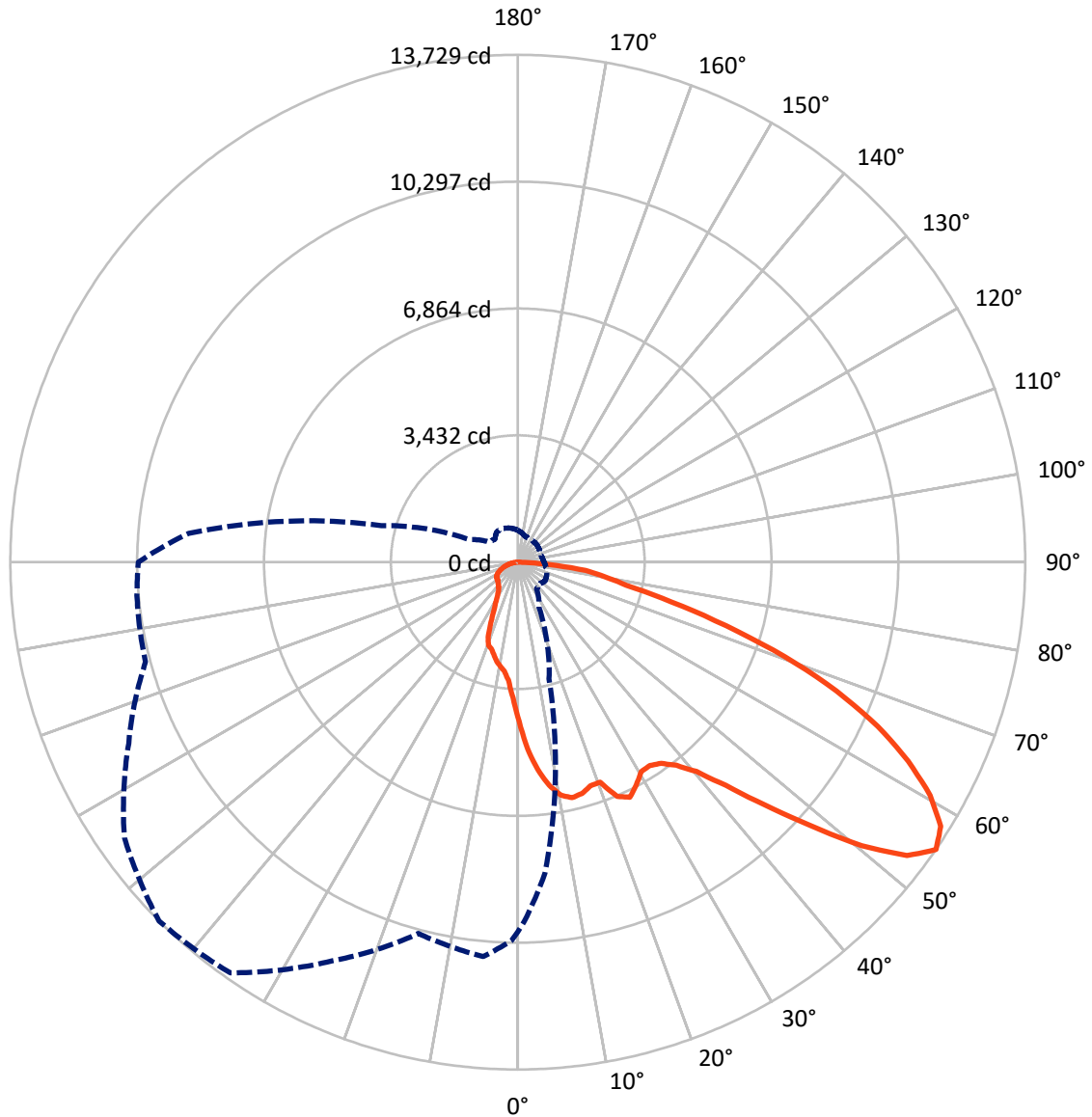
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3758.9	0.0	3758.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	13425.1	0.0	13425.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	17184.0	0.0	17184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.5	2.1
10°-20°	969.7	5.6
20°-30°	1675.2	9.7
30°-40°	1946.8	11.3
40°-50°	2716.2	15.8
50°-60°	3685.6	21.4
60°-70°	3506.4	20.4
70°-80°	1894.2	11.0
80°-90°	424.5	2.5
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°	17184.0	100.0
0°-180°	17184.0	100.0

Coefficient of Utilization



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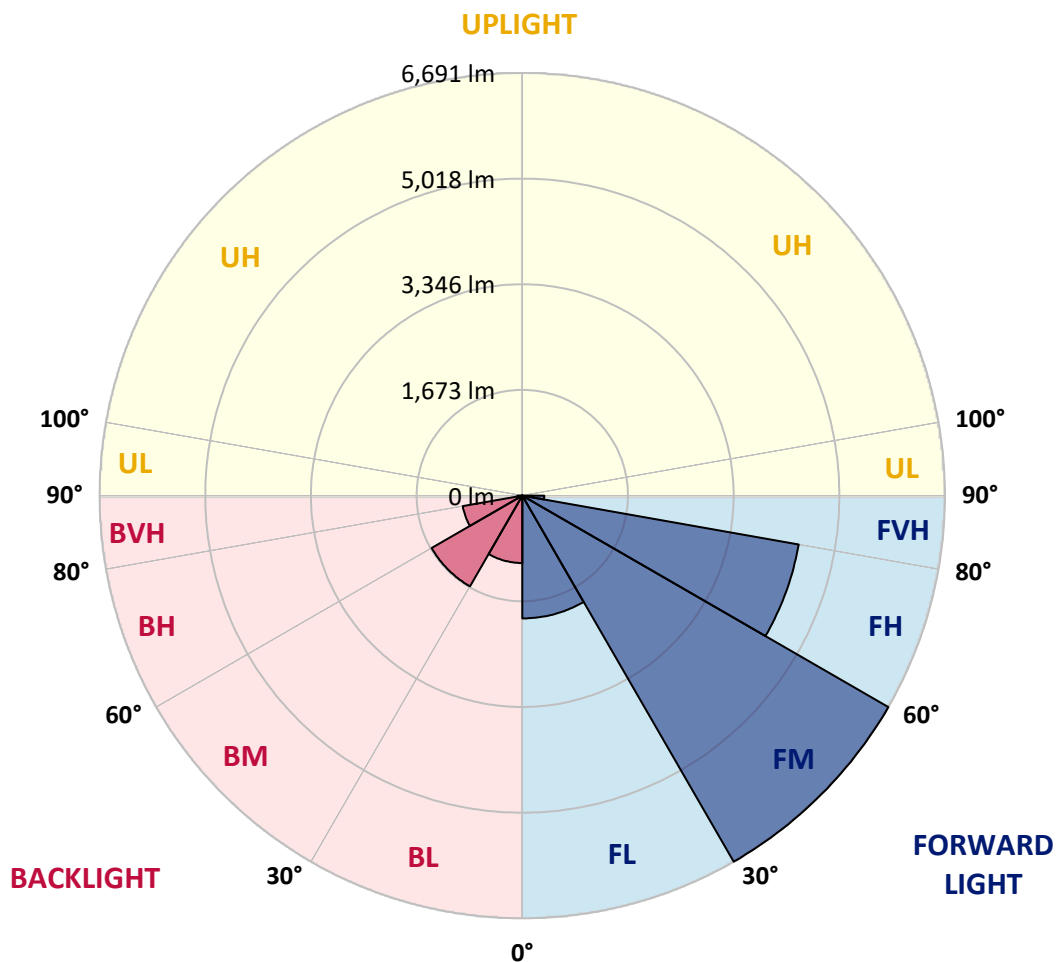
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1943.5	11.3			
FM	(30°-60°)	6691.1	38.9			
FH	(60°-80°)	4443.5	25.9			G2/5000
FVH	(80°-90°)	346.9	2.0			G3/500
BL	(0°-30°)	1066.8	6.2	B3/2500		
BM	(30°-60°)	1657.4	9.6	B2/2500		
BH	(60°-80°)	957.1	5.6	B2/1000		G2/1000
BVH	(80°-90°)	77.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5
2.5°	4790.9	4772.8	4721.8	4588.0	4453.1	4315.9	4210.5	4079.0	3941.8	3868.1	3774.0
5°	4856.7	4836.3	4716.1	4414.5	4141.3	3854.5	3625.5	3424.8	3343.2	3223.0	3126.7
7.5°	4702.5	4693.4	4513.2	4080.1	3706.0	3330.7	3071.1	2910.2	2763.9	2709.5	2720.8
10°	4561.9	4525.6	4300.0	3734.3	3297.9	2992.9	2807.0	2649.4	2546.2	2519.0	2524.7
12.5°	4445.2	4396.4	4130.0	3501.9	3119.9	2876.1	2639.2	2474.8	2380.7	2406.8	2495.2
15°	4421.3	4355.6	4058.6	3422.6	3022.4	2708.4	2448.7	2259.4	2189.1	2245.8	2387.5
17.5°	4575.5	4492.8	4181.0	3448.6	2929.4	2537.2	2218.6	2002.1	1943.1	2033.8	2218.6
20°	5070.9	4948.5	4563.1	3599.4	2920.4	2452.1	2084.8	1867.2	1892.1	2064.4	2257.2
22.5°	5987.0	5803.3	5231.9	3819.4	2968.0	2430.6	2057.6	1944.3	2081.4	2227.7	2354.7
25°	6168.3	6024.4	5352.1	3869.2	2957.8	2415.9	2134.7	2191.4	2344.4	2417.0	2372.8
27.5°	6270.4	6106.0	5344.2	3622.1	2644.9	2191.4	2040.6	2134.7	2173.3	2103.0	1982.8
30°	6508.4	6337.3	5479.1	3362.5	2177.8	1625.7	1425.0	1386.5	1412.6	1426.2	1383.1
32.5°	6836.1	6667.2	5733.0	3192.4	1883.0	1344.5	1147.3	1092.9	1080.4	1065.7	1048.7
35°	7260.1	7000.5	5982.4	3083.6	1761.7	1243.6	1062.3	1020.3	1003.3	982.9	964.8
37.5°	7690.9	7418.8	6297.6	2969.1	1681.2	1173.4	1005.6	986.3	956.8	935.3	909.2
40°	8148.9	7843.9	6584.4	2869.3	1603.0	1128.0	964.8	962.5	923.9	899.0	868.4
42.5°	8545.7	8231.6	6840.6	2808.1	1542.9	1080.4	939.8	946.6	906.9	869.5	829.9
45°	8860.8	8552.5	7077.6	2808.1	1494.2	1032.8	935.3	930.7	891.1	844.6	799.2
47.5°	9137.4	8818.9	7308.8	2879.5	1463.6	993.1	910.3	918.3	877.5	818.5	774.3
50°	9351.7	9070.6	7620.6	2990.6	1433.0	961.4	878.6	921.7	866.1	804.9	753.9
52.5°	9624.9	9373.3	7995.8	3142.6	1406.9	926.2	850.3	921.7	865.0	806.0	750.5
55°	10003.6	9738.3	8448.2	3268.4	1364.9	893.3	825.3	895.6	861.6	800.4	741.4
57.5°	10268.9	10070.5	8767.9	3352.3	1304.9	851.4	802.6	870.7	846.9	778.8	714.2
58°	10281.3	10087.5	8814.3	3371.6	1290.1	843.5	797.0	859.3	840.1	769.8	705.1
60°	10138.5	9971.8	8823.4	3344.4	1206.2	803.8	767.5	812.8	803.8	716.5	656.4
62.5°	9619.3	9441.3	8457.2	3123.3	1095.1	755.0	722.2	750.5	730.1	641.7	586.1
65°	8881.2	8553.6	7704.5	2776.4	1015.8	702.9	660.9	663.2	641.7	578.2	529.4
67.5°	7898.3	7532.2	6523.2	2339.9	955.7	645.1	588.4	582.7	556.6	515.8	476.1
70°	6688.7	6438.2	5301.1	1903.4	888.8	581.6	506.8	503.4	487.5	456.9	421.7
72.5°	5421.3	5102.7	4280.8	1523.7	807.2	520.4	430.8	437.6	417.2	395.7	363.9
75°	4000.8	3792.2	3309.2	1222.1	697.2	453.5	359.4	361.6	352.6	329.9	305.0
77.5°	2634.7	2572.3	2367.1	802.6	536.2	360.5	293.6	295.9	289.1	268.7	242.6
80°	1773.1	1731.1	1604.2	517.0	358.2	260.7	226.7	229.0	227.9	206.3	171.2
82.5°	1092.9	1074.7	1033.9	349.2	248.3	187.1	149.6	156.4	168.9	145.1	116.8
85°	515.8	517.0	624.7	190.5	146.2	120.2	81.6	87.3	87.3	87.3	65.8
87.5°	66.9	70.3	86.2	80.5	53.3	45.3	29.5	24.9	21.5	28.3	20.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5
2.5°	3741.1	3718.5	3669.7	3658.4	3651.6	3670.9	3619.8	3633.4	3610.8	3674.3	3664.0
5°	3132.4	3134.6	3174.3	3200.4	3209.4	3200.4	3166.4	3107.4	3062.1	3043.9	3048.5
7.5°	2699.3	2739.0	2807.0	2882.9	2952.1	2972.5	2953.2	2841.0	2718.6	2641.5	2616.5
10°	2555.3	2608.6	2686.8	2746.9	2808.1	2856.9	2867.1	2779.8	2634.7	2452.1	2380.7
12.5°	2563.2	2635.8	2710.6	2729.9	2724.2	2743.5	2734.4	2719.7	2624.5	2392.1	2273.0
15°	2488.4	2574.6	2626.7	2616.5	2598.4	2581.4	2557.6	2520.2	2486.2	2322.9	2191.4
17.5°	2316.1	2404.5	2447.6	2451.0	2451.0	2446.5	2388.7	2375.1	2370.5	2291.2	2210.7
20°	2347.8	2396.6	2377.3	2345.6	2354.7	2385.3	2351.2	2344.4	2370.5	2405.7	2390.9
22.5°	2366.0	2349.0	2203.9	2063.3	2031.6	2126.8	2146.1	2222.0	2327.4	2454.4	2537.2
25°	2253.8	2116.6	1857.0	1698.3	1608.7	1697.1	1812.8	1953.3	2110.9	2274.2	2370.5
27.5°	1884.2	1779.9	1594.0	1451.1	1372.9	1386.5	1485.1	1613.2	1759.5	1869.4	1939.7
30°	1419.4	1372.9	1276.5	1227.8	1180.2	1168.8	1210.8	1259.5	1324.1	1337.7	1355.9
32.5°	1045.3	1038.4	1044.1	1028.2	1019.2	1018.0	1005.6	1016.9	1023.7	1031.6	1015.8
35°	945.5	936.4	920.5	916.0	910.3	912.6	906.9	901.3	905.8	912.6	917.1
37.5°	894.5	880.9	858.2	850.3	850.3	853.7	844.6	842.3	850.3	871.8	883.1
40°	854.8	838.9	812.8	802.6	809.4	818.5	806.0	801.5	820.8	843.5	861.6
42.5°	817.4	804.9	780.0	768.6	774.3	791.3	773.2	769.8	794.7	819.6	841.2
45°	785.6	773.2	750.5	744.8	747.1	763.0	750.5	750.5	774.3	801.5	820.8
47.5°	760.7	744.8	730.1	725.6	727.8	736.9	734.6	734.6	757.3	785.6	804.9
50°	735.8	722.2	702.9	705.1	710.8	723.3	722.2	725.6	748.2	783.4	803.8
52.5°	724.4	704.0	682.5	684.7	701.7	716.5	712.0	715.4	741.4	807.2	836.7
55°	712.0	684.7	659.8	663.2	682.5	704.0	698.3	702.9	733.5	823.1	863.9
57.5°	688.1	656.4	629.2	631.5	659.8	682.5	673.4	679.1	715.4	806.0	849.1
58°	677.9	650.7	624.7	625.8	653.0	677.9	667.7	672.3	709.7	801.5	842.3
60°	634.9	619.0	596.3	597.4	623.5	645.1	639.4	643.9	680.2	768.6	799.2
62.5°	575.9	566.8	561.2	561.2	577.0	597.4	603.1	608.8	641.7	694.9	722.2
65°	512.4	512.4	513.6	513.6	523.8	549.8	553.2	568.0	598.6	624.7	645.1
67.5°	469.3	467.1	469.3	463.7	468.2	484.1	501.1	514.7	546.4	564.6	571.4
70°	413.8	412.7	413.8	405.9	411.5	425.1	436.5	459.1	492.0	505.6	509.0
72.5°	359.4	359.4	361.6	356.0	356.0	370.7	378.6	403.6	434.2	442.1	443.3
75°	302.7	306.1	306.1	298.2	300.4	309.5	319.7	340.1	368.4	374.1	374.1
77.5°	240.3	252.8	252.8	244.9	248.3	249.4	263.0	273.2	294.8	297.0	288.0
80°	174.6	187.1	197.3	190.5	196.1	189.3	197.3	204.1	225.6	215.4	200.7
82.5°	124.7	133.8	141.7	142.8	137.2	124.7	134.9	136.0	146.2	132.6	124.7
85°	69.2	77.1	87.3	82.8	73.7	65.8	69.2	71.4	70.3	66.9	62.4
87.5°	18.1	19.3	21.5	15.9	14.7	12.5	17.0	17.0	19.3	20.4	19.3
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°	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5
2.5°	3672.0	3721.9	3829.6	3911.2	4011.0	4132.3	4275.1	4419.1	4574.4	4623.1	4691.2
5°	3038.3	3163.0	3215.1	3363.6	3511.0	3732.1	3967.9	4241.1	4540.4	4684.4	4822.7
7.5°	2596.1	2663.0	2717.4	2826.3	3003.1	3271.8	3567.7	3908.9	4332.9	4542.6	4745.6
10°	2358.1	2364.9	2431.7	2566.6	2720.8	2957.8	3237.8	3619.8	4092.6	4347.7	4585.7
12.5°	2200.5	2171.0	2243.5	2384.1	2558.7	2777.5	3034.9	3398.8	3919.1	4181.0	4469.0
15°	2062.2	2015.7	2070.1	2214.1	2386.4	2643.7	2920.4	3305.8	3851.1	4156.1	4475.8
17.5°	2065.6	1937.5	1956.7	2078.0	2249.2	2511.1	2846.7	3302.4	3954.3	4305.7	4684.4
20°	2320.6	2115.4	2028.2	2050.8	2216.3	2502.0	2880.7	3461.1	4293.2	4805.7	5210.4
22.5°	2571.2	2447.6	2307.0	2260.6	2351.2	2650.5	3097.2	3836.4	5030.1	5802.2	6533.4
25°	2483.9	2589.3	2554.2	2488.4	2508.8	2757.1	3244.6	4144.7	5602.6	6472.2	7159.2
27.5°	1987.3	2178.9	2217.5	2216.3	2224.3	2428.3	2918.1	3937.3	5674.1	6600.3	7256.7
30°	1396.7	1413.7	1434.1	1473.8	1510.1	1692.6	2283.2	3456.6	5642.3	6658.1	7315.6
32.5°	1007.8	1030.5	1058.9	1113.3	1199.4	1431.8	1997.5	3303.5	5810.1	6897.3	7487.9
35°	921.7	947.8	975.0	1037.3	1118.9	1334.3	1884.2	3240.1	6085.6	7285.0	7797.4
37.5°	894.5	923.9	947.8	993.1	1058.9	1264.1	1781.0	3197.0	6367.9	7695.4	8212.4
40°	875.2	909.2	928.5	964.8	1010.1	1199.4	1689.2	3163.0	6641.1	8070.7	8545.7
42.5°	858.2	893.3	918.3	944.4	981.8	1141.6	1607.6	3129.0	6878.0	8434.6	8877.8
45°	837.8	882.0	913.7	934.2	967.0	1092.9	1545.2	3101.7	7147.8	8757.7	9213.4
47.5°	820.8	869.5	909.2	933.0	945.5	1058.9	1495.3	3139.2	7472.1	9095.5	9525.2
50°	821.9	868.4	918.3	955.7	922.8	1030.5	1464.7	3287.7	7893.8	9496.8	9771.2
52.5°	858.2	914.9	954.6	963.6	891.1	996.5	1448.8	3547.3	8392.6	9851.7	10019.4
55°	899.0	958.0	1001.0	995.4	874.1	953.4	1445.4	3823.9	8939.1	10265.5	10342.5
57.5°	884.3	970.4	1036.2	1006.7	875.2	911.5	1430.7	4047.2	9395.9	10575.0	10662.2
58°	879.7	965.9	1040.7	1004.4	871.8	899.0	1427.3	4066.5	9459.4	10596.5	10707.6
60°	835.5	926.2	1037.3	987.4	852.5	865.0	1389.9	4128.9	9442.4	10485.4	10734.8
62.5°	755.0	829.9	959.1	904.7	793.6	819.6	1306.0	4051.8	8982.1	9950.3	10336.9
65°	664.3	719.9	806.0	795.8	709.7	773.2	1191.5	3746.8	8060.5	9081.9	9488.9
67.5°	596.3	641.7	696.1	681.3	638.3	710.8	1067.9	3231.0	7026.5	8038.9	8551.3
70°	527.2	562.3	589.5	579.3	565.7	649.6	958.0	2622.2	6035.7	7048.1	7544.6
72.5°	456.9	489.7	512.4	497.7	489.7	585.0	868.4	2035.0	4767.1	5814.6	6452.9
75°	382.0	414.9	430.8	413.8	409.3	515.8	735.8	1520.3	3576.8	4482.6	5033.5
77.5°	295.9	331.0	351.4	345.8	348.0	424.0	594.0	1040.7	2557.6	3055.3	3635.7
80°	207.5	246.0	259.6	253.9	269.8	323.1	419.5	660.9	1764.0	1982.8	2392.1
82.5°	128.1	164.4	166.7	172.3	183.7	239.2	316.3	402.5	1107.6	1145.0	1442.0
85°	64.6	78.2	83.9	93.0	103.2	146.2	180.3	249.4	713.1	539.6	806.0
87.5°	21.5	22.7	27.2	34.0	41.9	60.1	77.1	102.0	176.9	97.5	249.4
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°	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5	4312.5
2.5°	4828.3	4924.7	4995.0	5059.6	4997.3	4991.6	4930.4	4831.7	4790.9	4790.9
5°	5112.9	5338.5	5521.0	5637.8	5587.9	5467.7	5269.3	5016.5	4880.5	4856.7
7.5°	5191.1	5636.6	5975.6	6095.8	6011.9	5746.6	5366.8	4940.6	4745.6	4702.5
10°	5143.5	5722.8	6220.5	6411.0	6294.2	5892.9	5374.8	4852.1	4611.8	4561.9
12.5°	5093.6	5734.1	6265.8	6541.3	6465.4	6010.8	5432.6	4794.3	4516.6	4445.2
15°	5129.9	5738.7	6210.3	6494.8	6543.6	6152.5	5527.8	4836.3	4497.3	4421.3
17.5°	5358.9	5824.8	6130.9	6361.1	6532.3	6345.2	5798.8	5036.9	4669.6	4575.5
20°	5837.3	6031.2	6176.3	6354.3	6629.8	6738.6	6353.1	5587.9	5153.7	5070.9
22.5°	7222.7	7187.5	6890.5	6887.1	7286.2	7722.6	7696.5	6708.0	6055.0	5987.0
25°	7741.9	7578.6	7149.0	7044.7	7220.4	7893.8	7796.3	6937.0	6333.9	6168.3
27.5°	7539.0	7134.2	6852.0	6828.1	6770.3	7406.3	7641.0	7029.9	6431.4	6270.4
30°	7526.5	6931.3	6527.7	6575.3	6630.9	7238.5	7727.2	7321.3	6680.8	6508.4
32.5°	7557.1	6959.7	6551.5	6560.6	6726.1	7263.5	7822.4	7638.7	7008.4	6836.1
35°	7680.7	7120.6	6703.4	6681.9	6940.4	7426.7	7984.5	8137.5	7456.2	7260.1
37.5°	7880.2	7441.5	6981.2	6975.5	7350.8	7721.5	8186.3	8640.9	7901.7	7690.9
40°	8173.8	7816.7	7475.5	7444.9	7908.5	8201.0	8448.2	9177.1	8419.8	8148.9
42.5°	8528.7	8266.8	8127.3	8248.6	8694.2	8739.5	8856.3	9672.5	8860.8	8545.7
45°	8857.4	8845.0	9038.8	9360.8	9620.4	9348.3	9282.6	10004.7	9203.2	8860.8
47.5°	9248.5	9586.4	10171.4	10643.0	10915.1	10056.9	9646.5	10221.2	9452.6	9137.4
50°	9645.3	10474.1	11408.2	12065.7	12123.6	10826.6	9897.0	10425.3	9679.3	9351.7
52.5°	10062.5	11182.6	12426.2	13190.3	13078.1	11496.6	10139.6	10563.6	9912.9	9624.9
55°	10425.3	11616.8	12995.4	13728.8	13564.5	11904.8	10401.5	10713.3	10246.2	10003.6
57.5°	10628.2	11653.1	12853.6	13494.2	13316.2	11825.4	10521.7	10824.4	10459.3	10268.9
58°	10657.7	11604.3	12727.8	13358.1	13176.7	11758.5	10520.5	10819.8	10472.9	10281.3
60°	10631.6	11288.0	12259.6	12820.8	12630.3	11339.1	10477.5	10734.8	10300.6	10138.5
62.5°	10390.2	10739.3	11451.3	11859.4	11805.0	10683.8	10300.6	10414.0	9775.7	9619.3
65°	10072.7	9991.1	10416.2	10705.3	10746.1	10192.9	10124.9	9720.2	9102.3	8881.2
67.5°	9687.3	9143.1	9142.0	9306.4	9374.4	9437.9	9758.7	8966.3	8131.9	7898.3
70°	9033.1	7836.0	7475.5	7669.3	7612.7	8148.9	9104.6	7907.4	6961.9	6688.7
72.5°	7833.7	6218.2	5641.2	5890.6	5747.7	6390.5	7966.4	6507.3	5756.8	5421.3
75°	6349.7	4651.5	4056.3	4285.3	4196.9	4847.6	6628.6	4726.3	4128.9	4000.8
77.5°	4930.4	3370.4	3024.7	2992.9	3058.7	3607.4	4862.3	3191.3	2722.0	2634.7
80°	3167.5	2412.5	2432.9	2392.1	2426.1	2274.2	2952.1	2036.1	1843.4	1773.1
82.5°	2084.8	1681.2	2004.3	1850.2	1757.2	1529.3	1936.3	1333.2	1131.4	1092.9
85°	1420.5	1238.0	1126.9	861.6	1014.6	1177.9	1452.2	717.6	569.1	515.8
87.5°	641.7	430.8	316.3	195.0	308.4	356.0	705.1	83.9	64.6	66.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)