

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: P452670

Luminaire Tested: **GALN-SA3C-827-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452670  
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-SA3C-827-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA 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: 13299 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

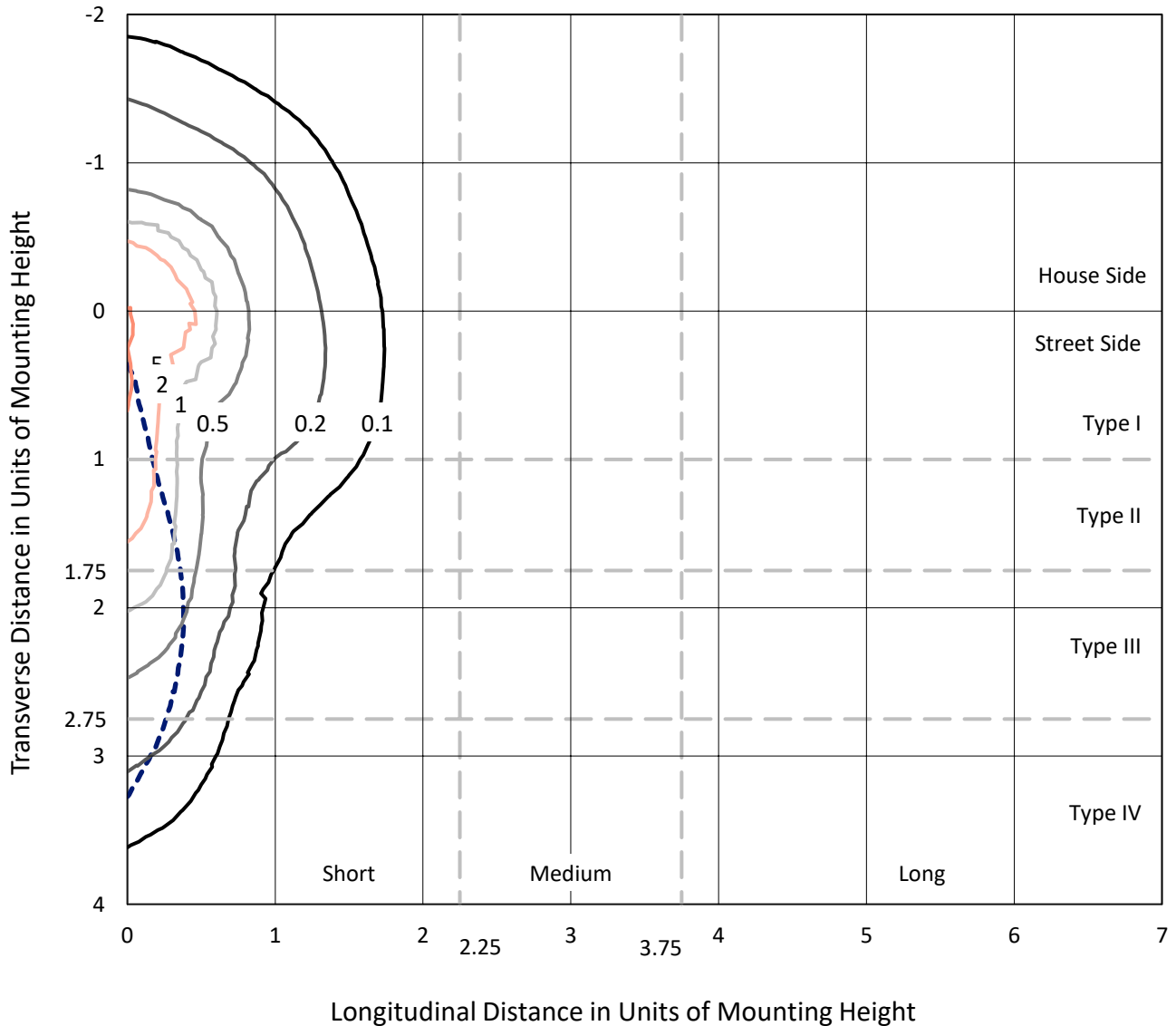
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

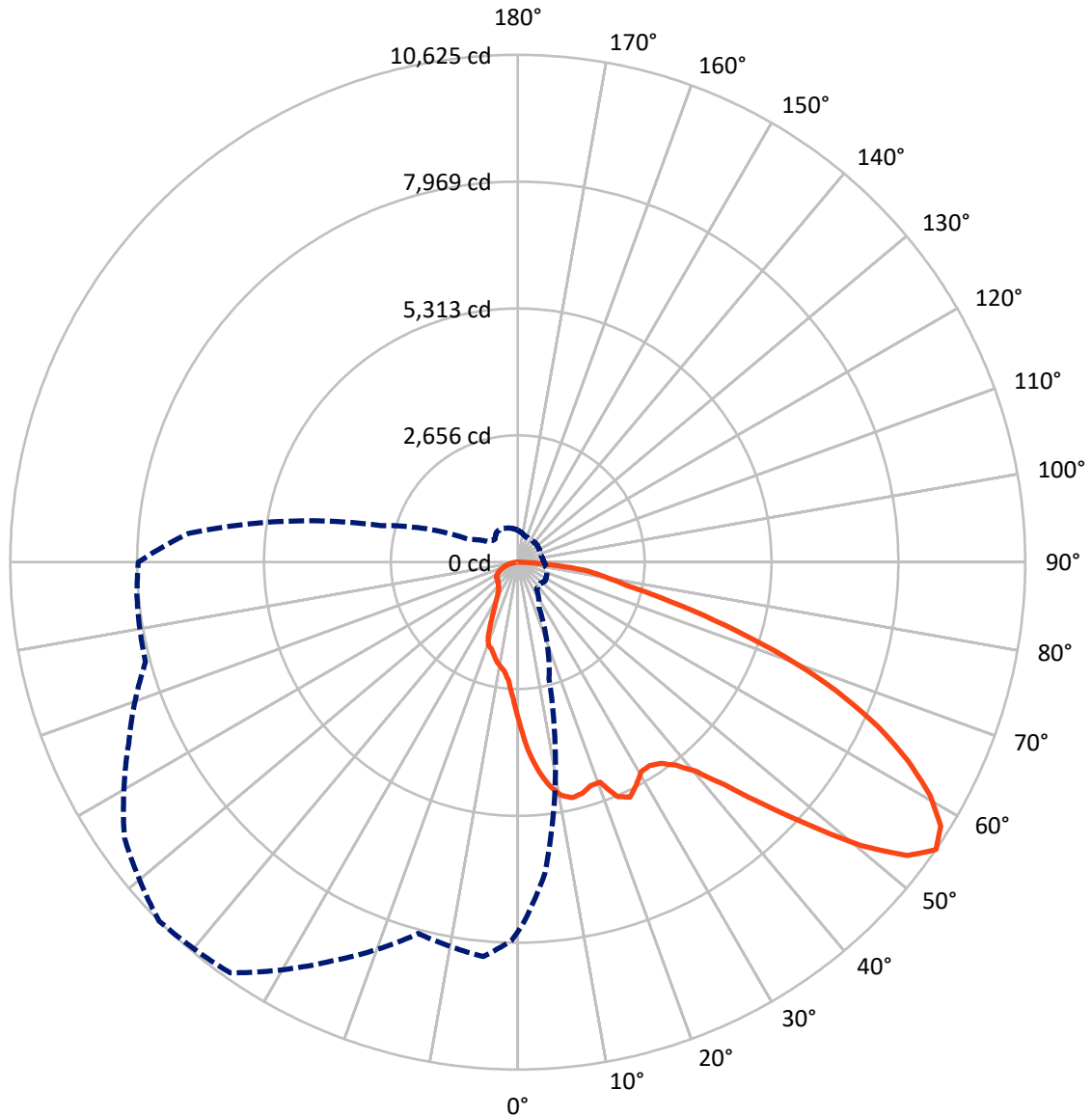
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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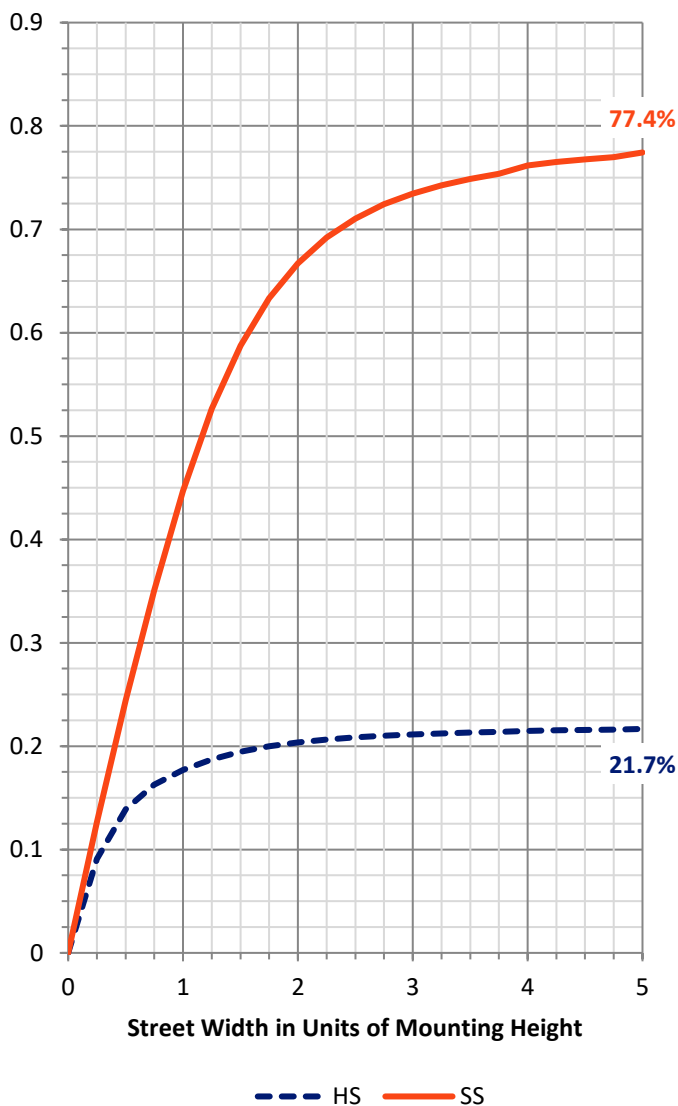
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2909.1	0.0	2909.1
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	10389.9	0.0	10389.9
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	13299.0	0.0	13299.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.9	2.1
10°-20°	750.4	5.6
20°-30°	1296.4	9.7
30°-40°	1506.7	11.3
40°-50°	2102.1	15.8
50°-60°	2852.3	21.4
60°-70°	2713.6	20.4
70°-80°	1466.0	11.0
80°-90°	328.6	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°	13299.0	100.0
0°-180°	13299.0	100.0

**Coefficient of Utilization**



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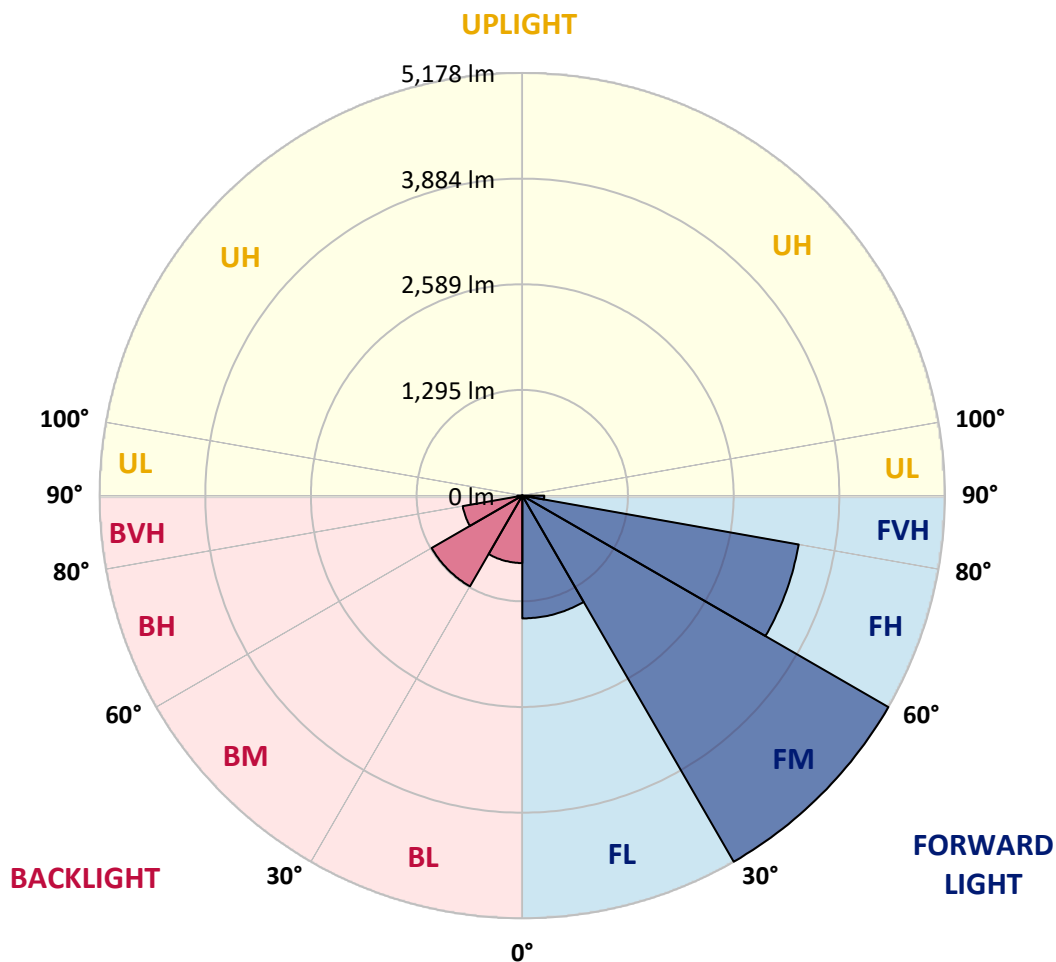
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1504.1	11.3			
FM	(30°-60°)	5178.4	38.9			
FH	(60°-80°)	3438.9	25.9			G2/5000
FVH	(80°-90°)	268.5	2.0			G3/500
BL	(0°-30°)	825.6	6.2	B2/1000		
BM	(30°-60°)	1282.7	9.6	B2/2500		
BH	(60°-80°)	740.7	5.6	B2/1000		G2/1000
BVH	(80°-90°)	60.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5
2.5°	3707.8	3693.7	3654.3	3550.7	3446.3	3340.2	3258.6	3156.8	3050.6	2993.6	2920.8
5°	3758.7	3742.9	3649.9	3416.5	3205.0	2983.1	2805.8	2650.5	2587.4	2494.4	2419.8
7.5°	3639.3	3632.3	3492.8	3157.7	2868.1	2577.7	2376.8	2252.2	2139.0	2096.9	2105.7
10°	3530.6	3502.5	3327.9	2890.1	2552.3	2316.3	2172.4	2050.4	1970.6	1949.5	1953.9
12.5°	3440.2	3402.5	3196.3	2710.2	2414.5	2225.9	2042.5	1915.3	1842.5	1862.7	1931.1
15°	3421.8	3370.9	3141.0	2648.8	2339.1	2096.0	1895.1	1748.6	1694.2	1738.1	1847.7
17.5°	3541.1	3477.0	3235.8	2669.0	2267.1	1963.6	1717.0	1549.4	1503.8	1574.0	1717.0
20°	3924.5	3829.7	3531.4	2785.7	2260.1	1897.8	1613.5	1445.0	1464.3	1597.7	1746.9
22.5°	4633.4	4491.3	4049.1	2955.9	2297.0	1881.1	1592.4	1504.7	1610.9	1724.0	1822.3
25°	4773.8	4662.4	4142.1	2994.5	2289.1	1869.7	1652.1	1696.0	1814.4	1870.6	1836.3
27.5°	4852.8	4725.5	4135.9	2803.2	2046.9	1696.0	1579.3	1652.1	1681.9	1627.5	1534.5
30°	5037.0	4904.5	4240.3	2602.3	1685.4	1258.2	1102.9	1073.0	1093.2	1103.7	1070.4
32.5°	5290.6	5159.8	4436.9	2470.7	1457.3	1040.6	887.9	845.8	836.1	824.7	811.6
35°	5618.7	5417.8	4629.9	2386.5	1363.4	962.5	822.1	789.6	776.5	760.7	746.6
37.5°	5952.1	5741.5	4873.8	2297.8	1301.1	908.1	778.2	763.3	740.5	723.8	703.7
40°	6306.6	6070.5	5095.8	2220.6	1240.6	873.0	746.6	744.9	715.1	695.8	672.1
42.5°	6613.6	6370.6	5294.1	2173.3	1194.1	836.1	727.3	732.6	701.9	672.9	642.2
45°	6857.6	6618.9	5477.4	2173.3	1156.4	799.3	723.8	720.3	689.6	653.6	618.5
47.5°	7071.6	6825.1	5656.4	2228.5	1132.7	768.6	704.5	710.7	679.1	633.5	599.2
50°	7237.5	7019.9	5897.7	2314.5	1109.0	744.0	680.0	713.3	670.3	622.9	583.5
52.5°	7448.9	7254.1	6188.1	2432.1	1088.8	716.8	658.0	713.3	669.4	623.8	580.8
55°	7741.9	7536.6	6538.2	2529.5	1056.4	691.4	638.7	693.1	666.8	619.4	573.8
57.5°	7947.3	7793.7	6785.6	2594.4	1009.9	658.9	621.2	673.8	655.4	602.8	552.7
58°	7956.9	7806.9	6821.6	2609.3	998.5	652.8	616.8	665.0	650.1	595.7	545.7
60°	7846.4	7717.4	6828.6	2588.3	933.5	622.1	594.0	629.1	622.1	554.5	508.0
62.5°	7444.5	7306.8	6545.2	2417.2	847.5	584.3	558.9	580.8	565.0	496.6	453.6
65°	6873.3	6619.8	5962.6	2148.7	786.1	544.0	511.5	513.3	496.6	447.5	409.7
67.5°	6112.7	5829.3	5048.4	1810.9	739.6	499.2	455.4	451.0	430.8	399.2	368.5
70°	5176.5	4982.6	4102.6	1473.1	687.9	450.1	392.2	389.6	377.3	353.6	326.4
72.5°	4195.6	3949.1	3313.0	1179.2	624.7	402.7	333.4	338.7	322.9	306.2	281.6
75°	3096.3	2934.8	2561.1	945.8	539.6	350.9	278.1	279.9	272.9	255.3	236.0
77.5°	2039.0	1990.8	1832.0	621.2	415.0	279.0	227.2	229.0	223.7	207.9	187.8
80°	1372.2	1339.7	1241.5	400.1	277.3	201.8	175.5	177.2	176.4	159.7	132.5
82.5°	845.8	831.8	800.2	270.2	192.1	144.8	115.8	121.1	130.7	112.3	90.4
85°	399.2	400.1	483.4	147.4	113.2	93.0	63.2	67.6	67.6	67.6	50.9
87.5°	51.8	54.4	66.7	62.3	41.2	35.1	22.8	19.3	16.7	21.9	15.8
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°	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5
2.5°	2895.3	2877.8	2840.1	2831.3	2826.0	2840.9	2801.5	2812.0	2794.4	2843.6	2835.7
5°	2424.2	2425.9	2456.6	2476.8	2483.8	2476.8	2450.5	2404.9	2369.8	2355.7	2359.3
7.5°	2089.0	2119.7	2172.4	2231.2	2284.7	2300.5	2285.6	2198.7	2103.9	2044.3	2025.0
10°	1977.6	2018.8	2079.4	2125.9	2173.3	2211.0	2218.9	2151.3	2039.0	1897.8	1842.5
12.5°	1983.7	2039.9	2097.8	2112.7	2108.3	2123.2	2116.2	2104.8	2031.1	1851.3	1759.1
15°	1925.8	1992.5	2032.9	2025.0	2010.9	1997.8	1979.4	1950.4	1924.1	1797.7	1696.0
17.5°	1792.5	1860.9	1894.2	1896.9	1896.9	1893.4	1848.6	1838.1	1834.6	1773.2	1710.9
20°	1817.0	1854.8	1839.9	1815.3	1822.3	1846.0	1819.7	1814.4	1834.6	1861.8	1850.4
22.5°	1831.1	1817.9	1705.6	1596.8	1572.3	1646.0	1660.9	1719.7	1801.2	1899.5	1963.6
25°	1744.2	1638.1	1437.1	1314.3	1245.0	1313.4	1402.9	1511.7	1633.7	1760.0	1834.6
27.5°	1458.2	1377.5	1233.6	1123.0	1062.5	1073.0	1149.4	1248.5	1361.7	1446.8	1501.2
30°	1098.5	1062.5	987.9	950.2	913.3	904.6	937.0	974.8	1024.8	1035.3	1049.3
32.5°	808.9	803.7	808.1	795.8	788.8	787.9	778.2	787.0	792.3	798.4	786.1
35°	731.7	724.7	712.4	708.9	704.5	706.3	701.9	697.5	701.0	706.3	709.8
37.5°	692.2	681.7	664.2	658.0	658.0	660.7	653.6	651.9	658.0	674.7	683.5
40°	661.5	649.3	629.1	621.2	626.4	633.5	623.8	620.3	635.2	652.8	666.8
42.5°	632.6	622.9	603.6	594.9	599.2	612.4	598.4	595.7	615.0	634.3	651.0
45°	608.0	598.4	580.8	576.4	578.2	590.5	580.8	580.8	599.2	620.3	635.2
47.5°	588.7	576.4	565.0	561.5	563.3	570.3	568.5	568.5	586.1	608.0	622.9
50°	569.4	558.9	544.0	545.7	550.1	559.8	558.9	561.5	579.1	606.3	622.1
52.5°	560.6	544.8	528.2	529.9	543.1	554.5	551.0	553.6	573.8	624.7	647.5
55°	551.0	529.9	510.6	513.3	528.2	544.8	540.5	544.0	567.7	637.0	668.6
57.5°	532.6	508.0	486.9	488.7	510.6	528.2	521.2	525.5	553.6	623.8	657.2
58°	524.7	503.6	483.4	484.3	505.4	524.7	516.8	520.3	549.2	620.3	651.9
60°	491.3	479.0	461.5	462.4	482.6	499.2	494.8	498.3	526.4	594.9	618.5
62.5°	445.7	438.7	434.3	434.3	446.6	462.4	466.8	471.1	496.6	537.8	558.9
65°	396.6	396.6	397.5	397.5	405.3	425.5	428.2	439.6	463.3	483.4	499.2
67.5°	363.2	361.5	363.2	358.8	362.4	374.6	387.8	398.3	422.9	436.9	442.2
70°	320.2	319.4	320.2	314.1	318.5	329.0	337.8	355.3	380.8	391.3	393.9
72.5°	278.1	278.1	279.9	275.5	275.5	286.9	293.0	312.3	336.0	342.2	343.1
75°	234.3	236.9	236.9	230.7	232.5	239.5	247.4	263.2	285.1	289.5	289.5
77.5°	186.0	195.7	195.7	189.5	192.1	193.0	203.6	211.4	228.1	229.9	222.9
80°	135.1	144.8	152.7	147.4	151.8	146.5	152.7	157.9	174.6	166.7	155.3
82.5°	96.5	103.5	109.7	110.5	106.2	96.5	104.4	105.3	113.2	102.7	96.5
85°	53.5	59.7	67.6	64.0	57.0	50.9	53.5	55.3	54.4	51.8	48.3
87.5°	14.0	14.9	16.7	12.3	11.4	9.7	13.2	13.2	14.9	15.8	14.9
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°	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5
2.5°	2841.8	2880.4	2963.8	3026.9	3104.1	3198.0	3308.6	3420.0	3540.2	3577.9	3630.6
5°	2351.4	2447.9	2488.2	2603.2	2717.2	2888.3	3070.8	3282.3	3513.9	3625.3	3732.3
7.5°	2009.2	2061.0	2103.1	2187.3	2324.2	2532.1	2761.1	3025.2	3353.3	3515.6	3672.7
10°	1824.9	1830.2	1882.0	1986.4	2105.7	2289.1	2505.8	2801.5	3167.3	3364.7	3549.0
12.5°	1703.0	1680.2	1736.3	1845.1	1980.2	2149.6	2348.7	2630.4	3033.1	3235.8	3458.6
15°	1595.9	1560.0	1602.1	1713.5	1846.9	2046.0	2260.1	2558.4	2980.4	3216.5	3463.9
17.5°	1598.6	1499.4	1514.3	1608.2	1740.7	1943.4	2203.1	2555.8	3060.3	3332.3	3625.3
20°	1796.0	1637.2	1569.6	1587.2	1715.3	1936.4	2229.4	2678.6	3322.6	3719.2	4032.4
22.5°	1989.9	1894.2	1785.5	1749.5	1819.7	2051.3	2397.0	2969.0	3892.9	4490.4	5056.3
25°	1922.3	2003.9	1976.7	1925.8	1941.6	2133.8	2511.0	3207.7	4336.0	5008.9	5540.6
27.5°	1538.0	1686.3	1716.1	1715.3	1721.4	1879.3	2258.4	3047.1	4391.3	5108.1	5616.1
30°	1080.9	1094.1	1109.9	1140.6	1168.7	1309.9	1767.0	2675.1	4366.7	5152.8	5661.7
32.5°	780.0	797.5	819.5	861.6	928.3	1108.1	1545.9	2556.7	4496.5	5337.9	5795.1
35°	713.3	733.5	754.5	802.8	866.0	1032.7	1458.2	2507.5	4709.7	5638.0	6034.6
37.5°	692.2	715.1	733.5	768.6	819.5	978.3	1378.4	2474.2	4928.2	5955.6	6355.7
40°	677.3	703.7	718.6	746.6	781.7	928.3	1307.3	2447.9	5139.7	6246.0	6613.6
42.5°	664.2	691.4	710.7	730.9	759.8	883.5	1244.1	2421.6	5323.0	6527.7	6870.7
45°	648.4	682.6	707.2	723.0	748.4	845.8	1195.9	2400.5	5531.8	6777.7	7130.4
47.5°	635.2	672.9	703.7	722.1	731.7	819.5	1157.3	2429.4	5782.8	7039.2	7371.7
50°	636.1	672.1	710.7	739.6	714.2	797.5	1133.6	2544.4	6109.2	7349.8	7562.1
52.5°	664.2	708.0	738.7	745.8	689.6	771.2	1121.3	2745.3	6495.2	7624.4	7754.2
55°	695.8	741.4	774.7	770.3	676.5	737.9	1118.7	2959.4	6918.1	7944.6	8004.3
57.5°	684.4	751.0	801.9	779.1	677.3	705.4	1107.2	3132.2	7271.7	8184.1	8251.7
58°	680.8	747.5	805.4	777.4	674.7	695.8	1104.6	3147.1	7320.8	8200.8	8286.8
60°	646.6	716.8	802.8	764.2	659.8	669.4	1075.7	3195.4	7307.6	8114.8	8307.9
62.5°	584.3	642.2	742.3	700.1	614.2	634.3	1010.7	3135.7	6951.4	7700.7	7999.9
65°	514.1	557.1	623.8	615.9	549.2	598.4	922.1	2899.7	6238.1	7028.6	7343.6
67.5°	461.5	496.6	538.7	527.3	494.0	550.1	826.5	2500.5	5438.0	6221.5	6618.0
70°	408.0	435.2	456.2	448.3	437.8	502.7	741.4	2029.4	4671.1	5454.6	5838.9
72.5°	353.6	379.0	396.6	385.2	379.0	452.7	672.1	1574.9	3689.4	4500.0	4994.0
75°	295.7	321.1	333.4	320.2	316.7	399.2	569.4	1176.6	2768.1	3469.1	3895.5
77.5°	229.0	256.2	272.0	267.6	269.4	328.1	459.7	805.4	1979.4	2364.5	2813.7
80°	160.6	190.4	200.9	196.5	208.8	250.1	324.6	511.5	1365.2	1534.5	1851.3
82.5°	99.1	127.2	129.0	133.4	142.1	185.1	244.8	311.5	857.2	886.1	1116.0
85°	50.0	60.5	64.9	71.9	79.8	113.2	139.5	193.0	551.9	417.6	623.8
87.5°	16.7	17.5	21.1	26.3	32.5	46.5	59.7	79.0	136.9	75.5	193.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452670

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5	3337.5
2.5°	3736.7	3811.3	3865.7	3915.7	3867.5	3863.1	3815.7	3739.4	3707.8	3707.8
5°	3957.0	4131.6	4272.8	4363.2	4324.6	4231.6	4078.0	3882.4	3777.1	3758.7
7.5°	4017.5	4362.3	4624.6	4717.6	4652.7	4447.4	4153.5	3823.6	3672.7	3639.3
10°	3980.6	4429.0	4814.1	4961.5	4871.2	4560.6	4159.6	3755.2	3569.2	3530.6
12.5°	3942.0	4437.8	4849.2	5062.4	5003.7	4651.8	4204.4	3710.4	3495.5	3440.2
15°	3970.1	4441.3	4806.3	5026.5	5064.2	4761.5	4278.1	3742.9	3480.5	3421.8
17.5°	4147.3	4507.9	4744.8	4922.9	5055.4	4910.7	4487.8	3898.2	3613.9	3541.1
20°	4517.6	4667.6	4779.9	4917.7	5130.9	5215.1	4916.8	4324.6	3988.5	3924.5
22.5°	5589.7	5562.5	5332.7	5330.0	5638.9	5976.7	5956.5	5191.4	4686.1	4633.4
25°	5991.6	5865.2	5532.7	5452.0	5588.0	6109.2	6033.7	5368.6	4901.9	4773.8
27.5°	5834.5	5521.3	5302.8	5284.4	5239.7	5731.9	5913.5	5440.6	4977.3	4852.8
30°	5824.9	5364.3	5051.9	5088.8	5131.8	5602.0	5980.2	5666.1	5170.4	5037.0
32.5°	5848.6	5386.2	5070.3	5077.4	5205.5	5621.3	6053.9	5911.7	5423.9	5290.6
35°	5944.2	5510.8	5187.9	5171.2	5371.3	5747.7	6179.3	6297.8	5770.5	5618.7
37.5°	6098.6	5759.1	5402.9	5398.5	5688.9	5975.8	6335.5	6687.3	6115.3	5952.1
40°	6325.9	6049.5	5785.4	5761.7	6120.6	6346.9	6538.2	7102.3	6516.3	6306.6
42.5°	6600.5	6397.8	6289.9	6383.8	6728.6	6763.7	6854.0	7485.8	6857.6	6613.6
45°	6854.9	6845.3	6995.3	7244.5	7445.4	7234.8	7183.9	7742.8	7122.5	6857.6
47.5°	7157.6	7419.1	7871.8	8236.8	8447.4	7783.2	7465.6	7910.4	7315.5	7071.6
50°	7464.7	8106.1	8829.0	9337.9	9382.6	8378.9	7659.5	8068.3	7491.0	7237.5
52.5°	7787.6	8654.4	9616.9	10208.2	10121.4	8897.4	7847.2	8175.4	7671.8	7448.9
55°	8068.3	8990.4	10057.3	10625.0	10497.8	9213.3	8049.9	8291.2	7929.7	7741.9
57.5°	8225.4	9018.5	9947.7	10443.4	10305.6	9151.9	8142.9	8377.2	8094.6	7947.3
58°	8248.2	8980.8	9850.3	10338.1	10197.7	9100.1	8142.0	8373.7	8105.2	7956.9
60°	8228.0	8736.0	9487.9	9922.2	9774.8	8775.5	8108.7	8307.9	7971.8	7846.4
62.5°	8041.1	8311.4	8862.4	9178.2	9136.1	8268.4	7971.8	8059.6	7565.6	7444.5
65°	7795.5	7732.3	8061.3	8285.0	8316.6	7888.5	7835.8	7522.6	7044.4	6873.3
67.5°	7497.2	7076.0	7075.1	7202.4	7255.0	7304.1	7552.4	6939.1	6293.4	6112.7
70°	6990.9	6064.4	5785.4	5935.4	5891.6	6306.6	7046.2	6119.7	5388.0	5176.5
72.5°	6062.7	4812.4	4365.8	4558.8	4448.3	4945.8	6165.3	5036.1	4455.3	4195.6
75°	4914.2	3599.9	3139.2	3316.5	3248.0	3751.6	5130.0	3657.8	3195.4	3096.3
77.5°	3815.7	2608.4	2340.8	2316.3	2367.2	2791.8	3763.1	2469.8	2106.6	2039.0
80°	2451.4	1867.1	1882.8	1851.3	1877.6	1760.0	2284.7	1575.8	1426.6	1372.2
82.5°	1613.5	1301.1	1551.2	1431.9	1359.9	1183.6	1498.6	1031.8	875.6	845.8
85°	1099.3	958.1	872.1	666.8	785.2	911.6	1123.9	555.4	440.4	399.2
87.5°	496.6	333.4	244.8	150.9	238.6	275.5	545.7	64.9	50.0	51.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)