

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: P452902

Luminaire Tested: **GALN-SA3D-827-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452902  
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-SA3D-827-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1200mA 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: 14633 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

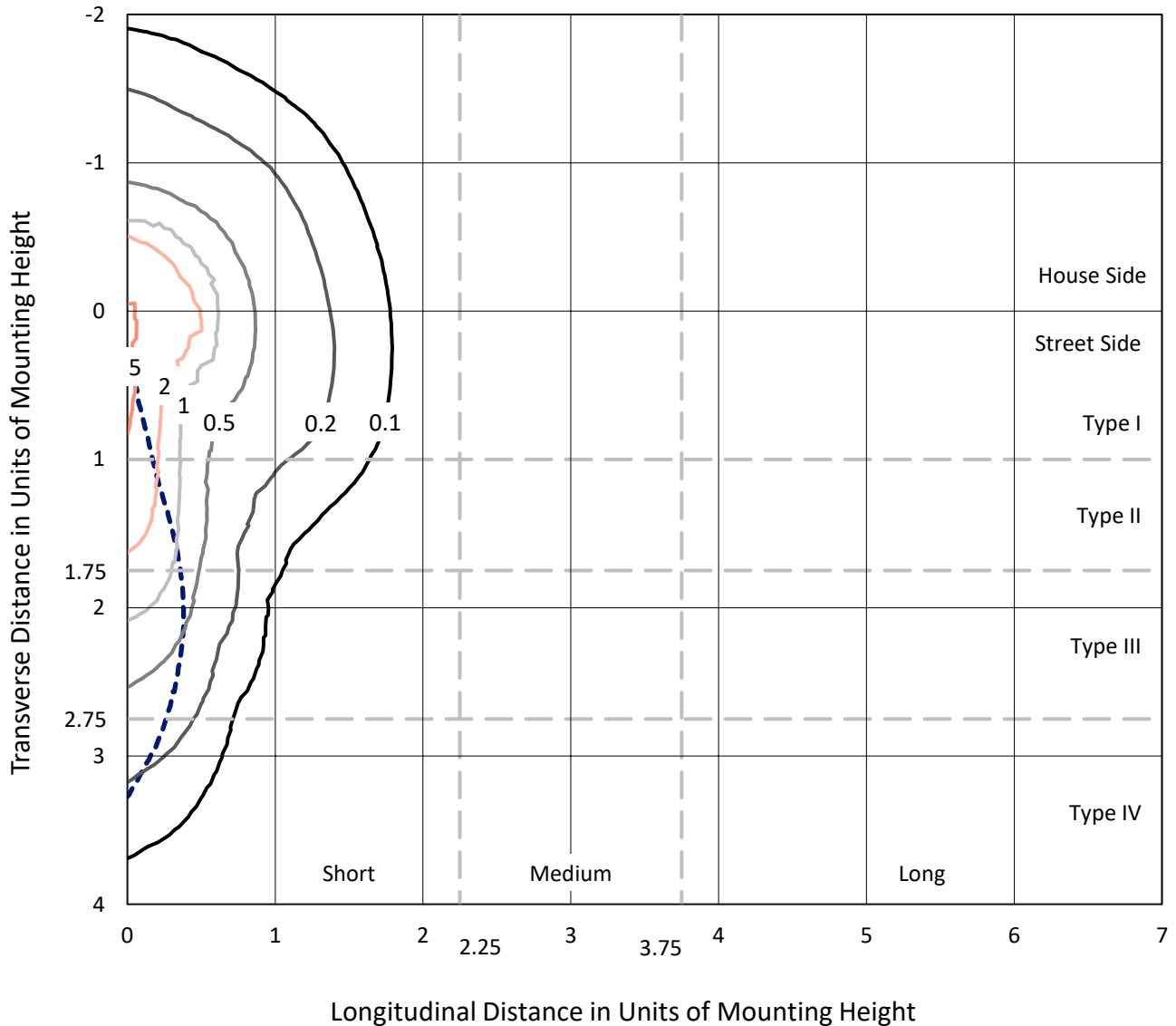
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

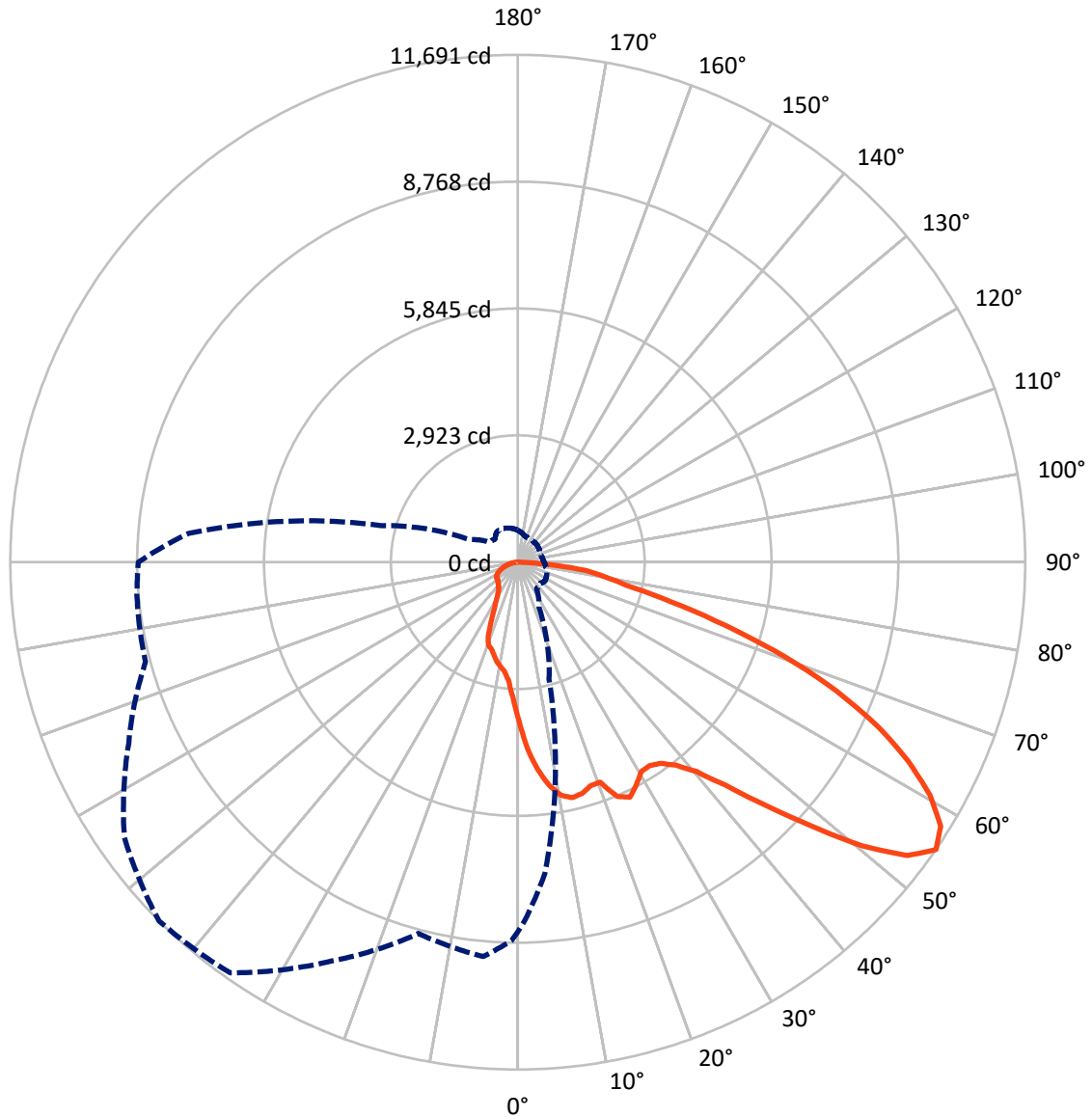
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3200.9	0.0	3200.9
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	11432.1	0.0	11432.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	14633.0	0.0	14633.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.2	2.1
10°-20°	825.7	5.6
20°-30°	1426.5	9.7
30°-40°	1657.8	11.3
40°-50°	2313.0	15.8
50°-60°	3138.4	21.4
60°-70°	2985.8	20.4
70°-80°	1613.0	11.0
80°-90°	361.5	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°	14633.0	100.0
0°-180°	14633.0	100.0



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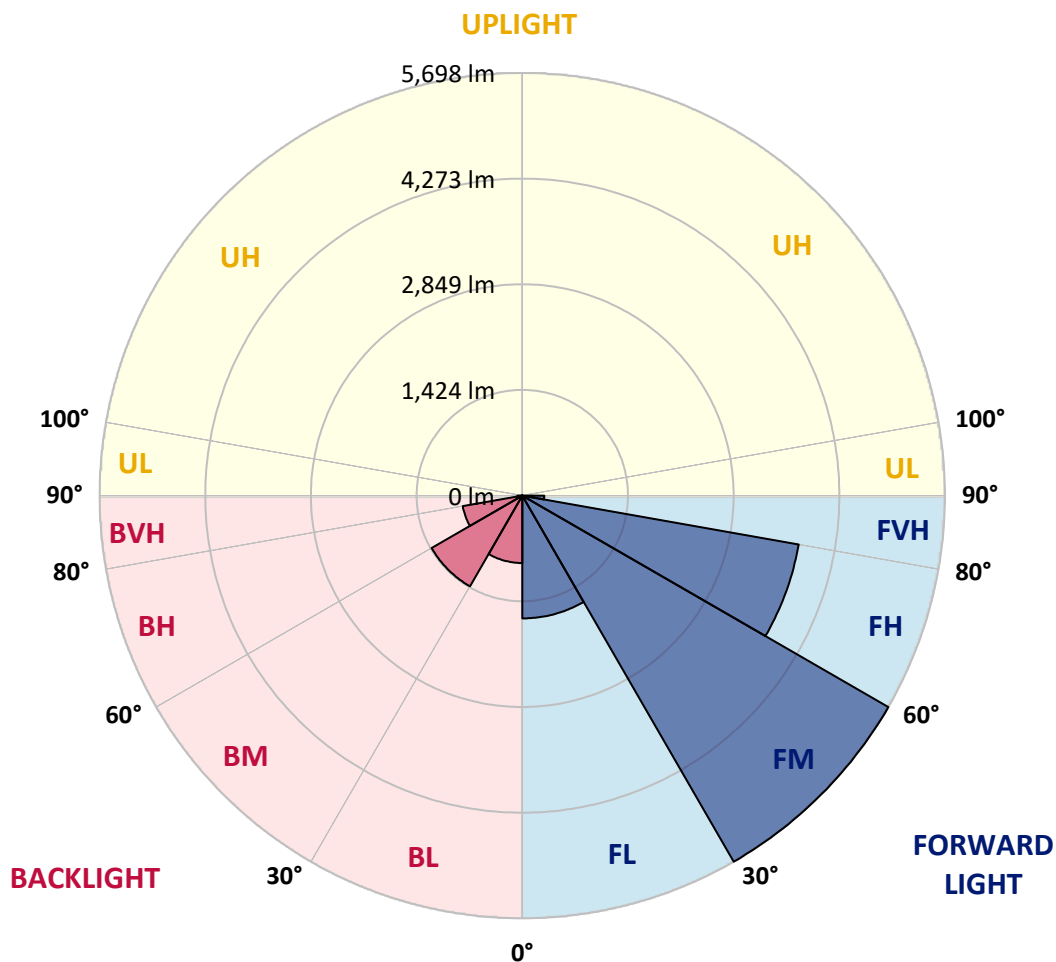
CATALOG NUMBER: GALN-SA3D-827-U-SLR

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1655.0	11.3			
FM	(30°-60°)	5697.8	38.9			
FH	(60°-80°)	3783.8	25.9			G2/5000
FVH	(80°-90°)	295.4	2.0			G3/500
BL	(0°-30°)	908.4	6.2	B2/1000		
BM	(30°-60°)	1411.4	9.6	B2/2500		
BH	(60°-80°)	815.0	5.6	B2/1000		G2/1000
BVH	(80°-90°)	66.1	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°	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3
2.5°	4079.7	4064.3	4020.8	3906.9	3792.0	3675.2	3585.4	3473.4	3356.6	3293.9	3213.8
5°	4135.7	4118.3	4016.0	3759.2	3526.5	3282.3	3087.3	2916.4	2846.9	2744.6	2662.5
7.5°	4004.4	3996.7	3843.2	3474.4	3155.8	2836.3	2615.2	2478.1	2353.6	2307.3	2316.9
10°	3884.7	3853.8	3661.7	3180.0	2808.3	2548.6	2390.3	2256.1	2168.2	2145.1	2149.9
12.5°	3785.3	3743.7	3516.9	2982.1	2656.7	2449.2	2247.4	2107.4	2027.3	2049.5	2124.8
15°	3765.0	3709.0	3456.1	2914.5	2573.7	2306.3	2085.2	1924.0	1864.2	1912.4	2033.1
17.5°	3896.3	3825.8	3560.3	2936.7	2494.5	2160.5	1889.3	1704.9	1654.7	1731.9	1889.3
20°	4318.2	4213.9	3885.7	3065.1	2486.8	2088.1	1775.3	1590.0	1611.2	1758.0	1922.1
22.5°	5098.2	4941.8	4455.2	3252.4	2527.4	2069.8	1752.2	1655.6	1772.4	1897.0	2005.1
25°	5252.6	5130.0	4557.6	3294.8	2518.7	2057.2	1817.8	1866.1	1996.4	2058.2	2020.5
27.5°	5339.5	5199.5	4550.8	3084.4	2252.2	1866.1	1737.7	1817.8	1850.6	1790.8	1688.5
30°	5542.3	5396.5	4665.7	2863.3	1854.5	1384.4	1213.5	1180.7	1202.9	1214.4	1177.8
32.5°	5821.3	5677.4	4881.9	2718.5	1603.5	1144.9	977.0	930.6	920.0	907.5	893.0
35°	6182.3	5961.2	5094.3	2625.8	1500.2	1059.0	904.6	868.8	854.4	837.0	821.5
37.5°	6549.1	6317.5	5362.7	2528.3	1431.7	999.2	856.3	839.9	814.8	796.4	774.2
40°	6939.2	6679.5	5606.9	2443.4	1365.0	960.6	821.5	819.6	786.8	765.5	739.5
42.5°	7277.0	7009.6	5825.1	2391.3	1313.9	920.0	800.3	806.1	772.3	740.4	706.7
45°	7545.4	7282.8	6026.9	2391.3	1272.4	879.5	796.4	792.6	758.8	719.2	680.6
47.5°	7781.0	7509.7	6223.8	2452.1	1246.3	845.7	775.2	782.0	747.2	697.0	659.4
50°	7963.4	7724.0	6489.3	2546.7	1220.2	818.6	748.2	784.9	737.6	685.4	642.0
52.5°	8196.1	7981.8	6808.8	2676.0	1198.0	788.7	724.0	784.9	736.6	686.4	639.1
55°	8518.5	8292.6	7194.0	2783.2	1162.3	760.7	702.8	762.7	733.7	681.6	631.4
57.5°	8744.4	8575.5	7466.3	2854.6	1111.2	725.0	683.5	741.4	721.1	663.2	608.2
58°	8755.0	8590.0	7505.8	2871.0	1098.6	718.2	678.7	731.8	715.3	655.5	600.5
60°	8633.4	8491.5	7513.6	2847.9	1027.2	684.5	653.6	692.2	684.5	610.1	559.0
62.5°	8191.3	8039.7	7201.7	2659.6	932.6	642.9	614.9	639.1	621.7	546.4	499.1
65°	7562.8	7283.8	6560.7	2364.2	865.0	598.5	562.8	564.7	546.4	492.3	450.8
67.5°	6725.8	6414.0	5554.8	1992.5	813.8	549.3	501.0	496.2	474.0	439.2	405.5
70°	5695.8	5482.4	4514.1	1620.9	756.9	495.2	431.5	428.6	415.1	389.0	359.1
72.5°	4616.5	4345.2	3645.3	1297.5	687.4	443.1	366.8	372.6	355.3	336.9	309.9
75°	3406.8	3229.2	2817.9	1040.7	593.7	386.2	306.0	308.0	300.2	280.9	259.7
77.5°	2243.5	2190.5	2015.7	683.5	456.6	307.0	250.0	252.0	246.2	228.8	206.6
80°	1509.9	1474.1	1366.0	440.2	305.1	222.0	193.1	195.0	194.0	175.7	145.8
82.5°	930.6	915.2	880.4	297.3	211.4	159.3	127.4	133.2	143.8	123.6	99.4
85°	439.2	440.2	531.9	162.2	124.5	102.3	69.5	74.3	74.3	74.3	56.0
87.5°	57.0	59.9	73.4	68.5	45.4	38.6	25.1	21.2	18.3	24.1	17.4
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°	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3
2.5°	3185.8	3166.5	3124.9	3115.3	3109.5	3125.9	3082.5	3094.0	3074.7	3128.8	3120.1
5°	2667.3	2669.3	2703.1	2725.3	2733.0	2725.3	2696.3	2646.1	2607.5	2592.0	2595.9
7.5°	2298.6	2332.4	2390.3	2455.0	2513.9	2531.2	2514.8	2419.2	2315.0	2249.3	2228.1
10°	2176.0	2221.3	2288.0	2339.1	2391.3	2432.8	2441.4	2367.1	2243.5	2088.1	2027.3
12.5°	2182.7	2244.5	2308.2	2324.6	2319.8	2336.2	2328.5	2316.0	2234.9	2037.0	1935.6
15°	2119.0	2192.4	2236.8	2228.1	2212.7	2198.2	2177.9	2146.0	2117.1	1978.1	1866.1
17.5°	1972.3	2047.6	2084.3	2087.2	2087.2	2083.3	2034.1	2022.5	2018.6	1951.0	1882.5
20°	1999.3	2040.8	2024.4	1997.4	2005.1	2031.2	2002.2	1996.4	2018.6	2048.5	2036.0
22.5°	2014.8	2000.3	1876.7	1757.0	1730.0	1811.1	1827.5	1892.1	1981.9	2090.1	2160.5
25°	1919.2	1802.4	1581.3	1446.1	1369.9	1445.2	1543.6	1663.4	1797.5	1936.6	2018.6
27.5°	1604.5	1515.6	1357.3	1235.7	1169.1	1180.7	1264.6	1373.7	1498.3	1591.9	1651.8
30°	1208.7	1169.1	1087.0	1045.5	1005.0	995.3	1031.0	1072.5	1127.6	1139.2	1154.6
32.5°	890.1	884.3	889.1	875.6	867.9	866.9	856.3	865.9	871.7	878.5	865.0
35°	805.1	797.4	783.9	780.0	775.2	777.1	772.3	767.5	771.3	777.1	781.0
37.5°	761.7	750.1	730.8	724.0	724.0	726.9	719.2	717.3	724.0	742.4	752.0
40°	727.9	714.4	692.2	683.5	689.3	697.0	686.4	682.5	698.9	718.2	733.7
42.5°	696.0	685.4	664.2	654.5	659.4	673.8	658.4	655.5	676.7	698.0	716.3
45°	669.0	658.4	639.1	634.3	636.2	649.7	639.1	639.1	659.4	682.5	698.9
47.5°	647.8	634.3	621.7	617.8	619.8	627.5	625.6	625.6	644.9	669.0	685.4
50°	626.5	614.9	598.5	600.5	605.3	615.9	614.9	617.8	637.2	667.1	684.5
52.5°	616.9	599.5	581.2	583.1	597.6	610.1	606.3	609.2	631.4	687.4	712.5
55°	606.3	583.1	561.9	564.7	581.2	599.5	594.7	598.5	624.6	700.9	735.6
57.5°	586.0	559.0	535.8	537.7	561.9	581.2	573.4	578.3	609.2	686.4	723.1
58°	577.3	554.1	531.9	532.9	556.1	577.3	568.6	572.5	604.3	682.5	717.3
60°	540.6	527.1	507.8	508.8	531.0	549.3	544.5	548.3	579.2	654.5	680.6
62.5°	490.4	482.7	477.9	477.9	491.4	508.8	513.6	518.4	546.4	591.8	614.9
65°	436.4	436.4	437.3	437.3	446.0	468.2	471.1	483.7	509.7	531.9	549.3
67.5°	399.7	397.7	399.7	394.8	398.7	412.2	426.7	438.3	465.3	480.8	486.6
70°	352.4	351.4	352.4	345.6	350.4	362.0	371.7	391.0	419.0	430.6	433.5
72.5°	306.0	306.0	308.0	303.1	303.1	315.7	322.4	343.7	369.7	376.5	377.5
75°	257.8	260.7	260.7	253.9	255.8	263.5	272.2	289.6	313.7	318.6	318.6
77.5°	204.7	215.3	215.3	208.5	211.4	212.4	224.0	232.7	251.0	252.9	245.2
80°	148.7	159.3	168.0	162.2	167.0	161.2	168.0	173.8	192.1	183.4	170.9
82.5°	106.2	113.9	120.7	121.6	116.8	106.2	114.9	115.8	124.5	112.9	106.2
85°	58.9	65.6	74.3	70.5	62.7	56.0	58.9	60.8	59.9	57.0	53.1
87.5°	15.4	16.4	18.3	13.5	12.5	10.6	14.5	14.5	16.4	17.4	16.4
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3
2.5°	3126.9	3169.3	3261.1	3330.6	3415.5	3518.8	3640.5	3763.1	3895.3	3936.8	3994.7
5°	2587.2	2693.4	2737.8	2864.3	2989.8	3178.0	3378.8	3611.5	3866.4	3989.0	4106.7
7.5°	2210.7	2267.7	2314.0	2406.7	2557.3	2786.1	3038.1	3328.6	3689.7	3868.3	4041.1
10°	2008.0	2013.8	2070.7	2185.6	2316.9	2518.7	2757.1	3082.5	3485.0	3702.2	3905.0
12.5°	1873.8	1848.7	1910.5	2030.2	2178.9	2365.2	2584.3	2894.2	3337.3	3560.3	3805.5
15°	1756.0	1716.4	1762.8	1885.4	2032.1	2251.3	2486.8	2815.1	3279.4	3539.1	3811.3
17.5°	1758.9	1649.8	1666.2	1769.5	1915.3	2138.3	2424.1	2812.2	3367.3	3666.5	3989.0
20°	1976.1	1801.4	1727.1	1746.4	1887.3	2130.6	2453.0	2947.3	3655.9	4092.3	4436.9
22.5°	2189.5	2084.3	1964.6	1925.0	2002.2	2257.1	2637.4	3266.9	4283.4	4940.8	5563.5
25°	2115.2	2204.9	2175.0	2119.0	2136.4	2347.8	2762.9	3529.4	4770.9	5511.4	6096.4
27.5°	1692.3	1855.5	1888.3	1887.3	1894.1	2067.8	2484.9	3352.8	4831.7	5620.5	6179.4
30°	1189.4	1203.8	1221.2	1255.0	1285.9	1441.3	1944.3	2943.4	4804.7	5669.7	6229.6
32.5°	858.2	877.5	901.7	948.0	1021.4	1219.3	1701.0	2813.1	4947.6	5873.4	6376.3
35°	784.9	807.1	830.2	883.3	952.8	1136.3	1604.5	2759.1	5182.2	6203.5	6639.9
37.5°	761.7	786.8	807.1	845.7	901.7	1076.4	1516.6	2722.4	5422.5	6553.0	6993.2
40°	745.3	774.2	790.6	821.5	860.2	1021.4	1438.4	2693.4	5655.2	6872.6	7277.0
42.5°	730.8	760.7	782.0	804.2	836.0	972.1	1368.9	2664.5	5857.0	7182.4	7559.9
45°	713.4	751.1	778.1	795.5	823.5	930.6	1315.8	2641.3	6086.7	7457.6	7845.7
47.5°	698.9	740.4	774.2	794.5	805.1	901.7	1273.3	2673.1	6362.8	7745.3	8111.1
50°	699.9	739.5	782.0	813.8	785.8	877.5	1247.3	2799.6	6722.0	8087.0	8320.6
52.5°	730.8	779.1	812.9	820.6	758.8	848.6	1233.8	3020.7	7146.7	8389.2	8532.0
55°	765.5	815.7	852.4	847.6	744.3	811.9	1230.9	3256.2	7612.0	8741.5	8807.2
57.5°	753.0	826.4	882.4	857.3	745.3	776.2	1218.3	3446.4	8001.1	9005.1	9079.4
58°	749.1	822.5	886.2	855.3	742.4	765.5	1215.4	3462.8	8055.1	9023.4	9118.0
60°	711.5	788.7	883.3	840.8	726.0	736.6	1183.6	3515.9	8040.7	8928.8	9141.2
62.5°	642.9	706.7	816.7	770.4	675.8	698.0	1112.1	3450.3	7648.7	8473.2	8802.3
65°	565.7	613.0	686.4	677.7	604.3	658.4	1014.6	3190.6	6863.9	7733.7	8080.2
67.5°	507.8	546.4	592.7	580.2	543.5	605.3	909.4	2751.3	5983.4	6845.5	7281.9
70°	448.9	478.8	502.0	493.3	481.7	553.2	815.7	2232.9	5139.7	6001.8	6424.6
72.5°	389.0	417.0	436.4	423.8	417.0	498.1	739.5	1732.9	4059.4	4951.4	5495.0
75°	325.3	353.3	366.8	352.4	348.5	439.2	626.5	1294.6	3045.8	3817.1	4286.3
77.5°	252.0	281.9	299.3	294.4	296.4	361.1	505.9	886.2	2177.9	2601.7	3096.0
80°	176.7	209.5	221.1	216.2	229.8	275.1	357.2	562.8	1502.1	1688.5	2037.0
82.5°	109.1	140.0	141.9	146.7	156.4	203.7	269.3	342.7	943.2	975.0	1228.0
85°	55.0	66.6	71.4	79.2	87.8	124.5	153.5	212.4	607.2	459.5	686.4
87.5°	18.3	19.3	23.2	29.0	35.7	51.2	65.6	86.9	150.6	83.0	212.4
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: P452902

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3
2.5°	4111.6	4193.6	4253.5	4308.5	4255.4	4250.6	4198.4	4114.5	4079.7	4079.7
5°	4353.9	4546.0	4701.4	4800.8	4758.4	4656.0	4487.1	4271.8	4156.0	4135.7
7.5°	4420.5	4799.9	5088.5	5190.9	5119.4	4893.5	4570.1	4207.1	4041.1	4004.4
10°	4379.9	4873.2	5297.0	5459.2	5359.8	5018.1	4576.9	4131.8	3927.2	3884.7
12.5°	4337.5	4882.9	5335.7	5570.3	5505.6	5118.5	4626.1	4082.6	3846.1	3785.3
15°	4368.4	4886.8	5288.4	5530.7	5572.2	5239.1	4707.2	4118.3	3829.7	3765.0
17.5°	4563.4	4960.1	5220.8	5416.8	5562.5	5403.2	4937.9	4289.2	3976.4	3896.3
20°	4970.7	5135.8	5259.4	5411.0	5645.6	5738.2	5410.0	4758.4	4388.6	4318.2
22.5°	6150.4	6120.5	5867.6	5864.7	6204.5	6576.2	6554.0	5712.2	5156.1	5098.2
25°	6592.6	6453.6	6087.7	5998.9	6148.5	6722.0	6638.9	5907.2	5393.6	5252.6
27.5°	6419.8	6075.1	5834.8	5814.5	5765.3	6306.8	6506.7	5986.3	5476.6	5339.5
30°	6409.2	5902.3	5558.7	5599.2	5646.5	6164.0	6580.0	6234.4	5689.0	5542.3
32.5°	6435.2	5926.5	5578.9	5586.7	5727.6	6185.2	6661.1	6504.7	5968.0	5821.3
35°	6540.5	6063.6	5708.3	5690.0	5910.1	6324.2	6799.2	6929.5	6349.3	6182.3
37.5°	6710.4	6336.8	5944.8	5940.0	6259.5	6575.2	6971.0	7358.1	6728.7	6549.1
40°	6960.4	6656.3	6365.7	6339.7	6734.5	6983.6	7194.0	7814.8	7169.9	6939.2
42.5°	7262.6	7039.6	6920.8	7024.1	7403.5	7442.1	7541.6	8236.6	7545.4	7277.0
45°	7542.5	7531.9	7697.0	7971.2	8192.2	7960.5	7904.5	8519.5	7837.0	7545.4
47.5°	7875.6	8163.3	8661.4	9063.0	9294.7	8563.9	8214.4	8703.9	8049.4	7781.0
50°	8213.5	8919.2	9714.6	10274.6	10323.8	9219.4	8427.8	8877.6	8242.4	7963.4
52.5°	8568.7	9522.5	10581.5	11232.2	11136.6	9789.9	8634.4	8995.4	8441.3	8196.1
55°	8877.6	9892.3	11066.2	11690.8	11550.8	10137.5	8857.4	9122.9	8725.1	8518.5
57.5°	9050.5	9923.2	10945.5	11490.9	11339.4	10069.9	8959.7	9217.5	8906.6	8744.4
58°	9075.6	9881.6	10838.3	11375.1	11220.6	10012.9	8958.7	9213.6	8918.2	8755.0
60°	9053.3	9612.3	10439.6	10917.5	10755.3	9655.7	8922.1	9141.2	8771.5	8633.4
62.5°	8847.7	9145.1	9751.3	10098.9	10052.5	9097.8	8771.5	8868.0	8324.5	8191.3
65°	8577.4	8507.9	8869.9	9116.1	9150.9	8679.7	8621.8	8277.2	7751.0	7562.8
67.5°	8249.2	7785.8	7784.8	7924.8	7982.7	8036.8	8310.0	7635.2	6924.7	6725.8
70°	7692.2	6672.7	6365.7	6530.8	6482.5	6939.2	7753.0	6733.5	5928.4	5695.8
72.5°	6670.8	5295.1	4803.7	5016.1	4894.5	5441.9	6783.7	5541.3	4902.2	4616.5
75°	5407.1	3961.0	3454.1	3649.1	3573.8	4128.0	5644.6	4024.7	3515.9	3406.8
77.5°	4198.4	2870.1	2575.6	2548.6	2604.6	3071.8	4140.5	2717.5	2317.9	2243.5
80°	2697.3	2054.3	2071.7	2037.0	2065.9	1936.6	2513.9	1733.8	1569.7	1509.9
82.5°	1775.3	1431.7	1706.8	1575.5	1496.3	1302.3	1648.9	1135.3	963.5	930.6
85°	1209.6	1054.2	959.6	733.7	864.0	1003.0	1236.7	611.1	484.6	439.2
87.5°	546.4	366.8	269.3	166.0	262.6	303.1	600.5	71.4	55.0	57.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)