

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: P451597

Luminaire Tested: **GALN-SA2C-727-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451597  
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-SA2C-727-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 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: 10192 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 108  
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

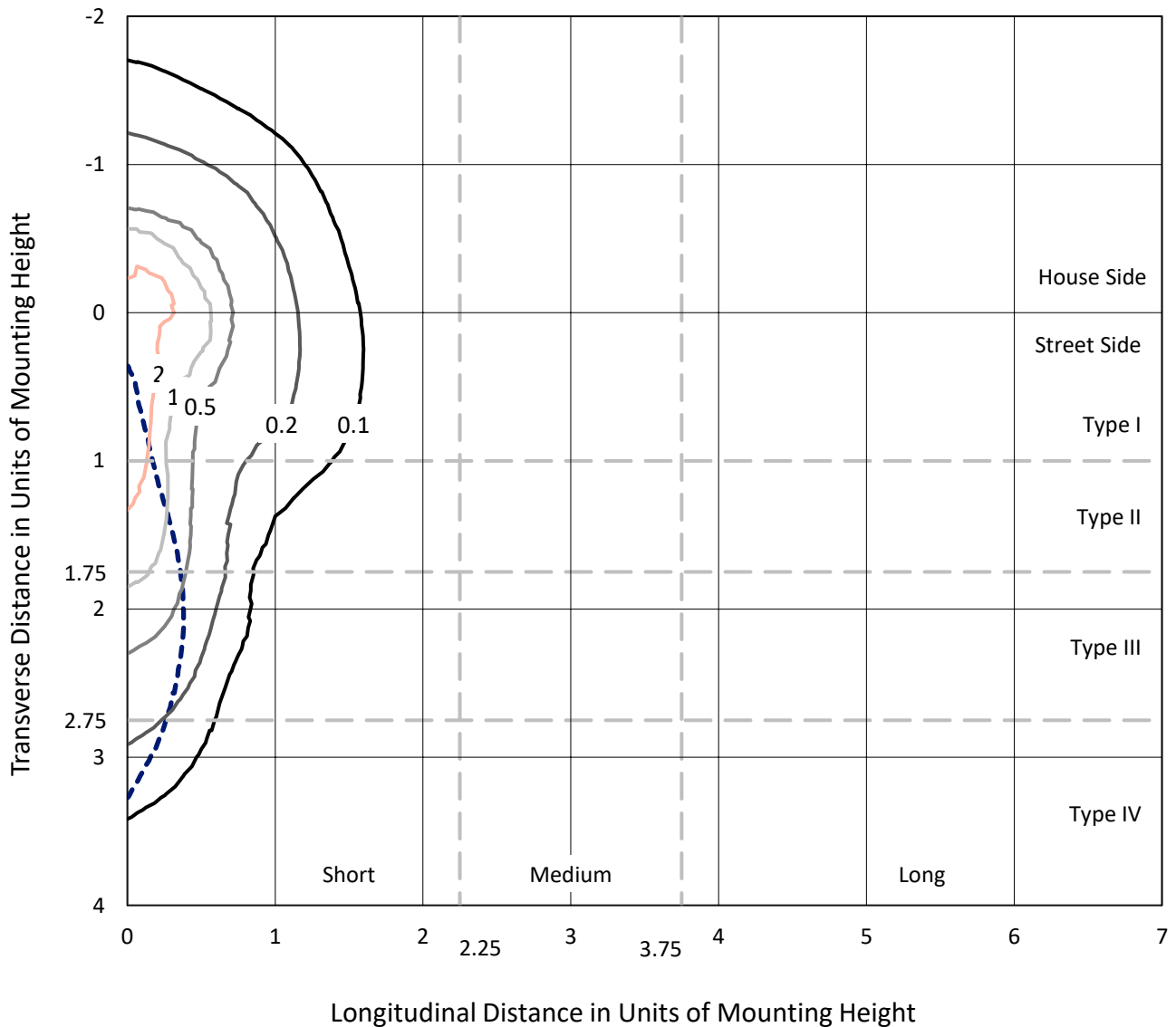




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### Iso-Footcandle Lines of Horizontal Illumination

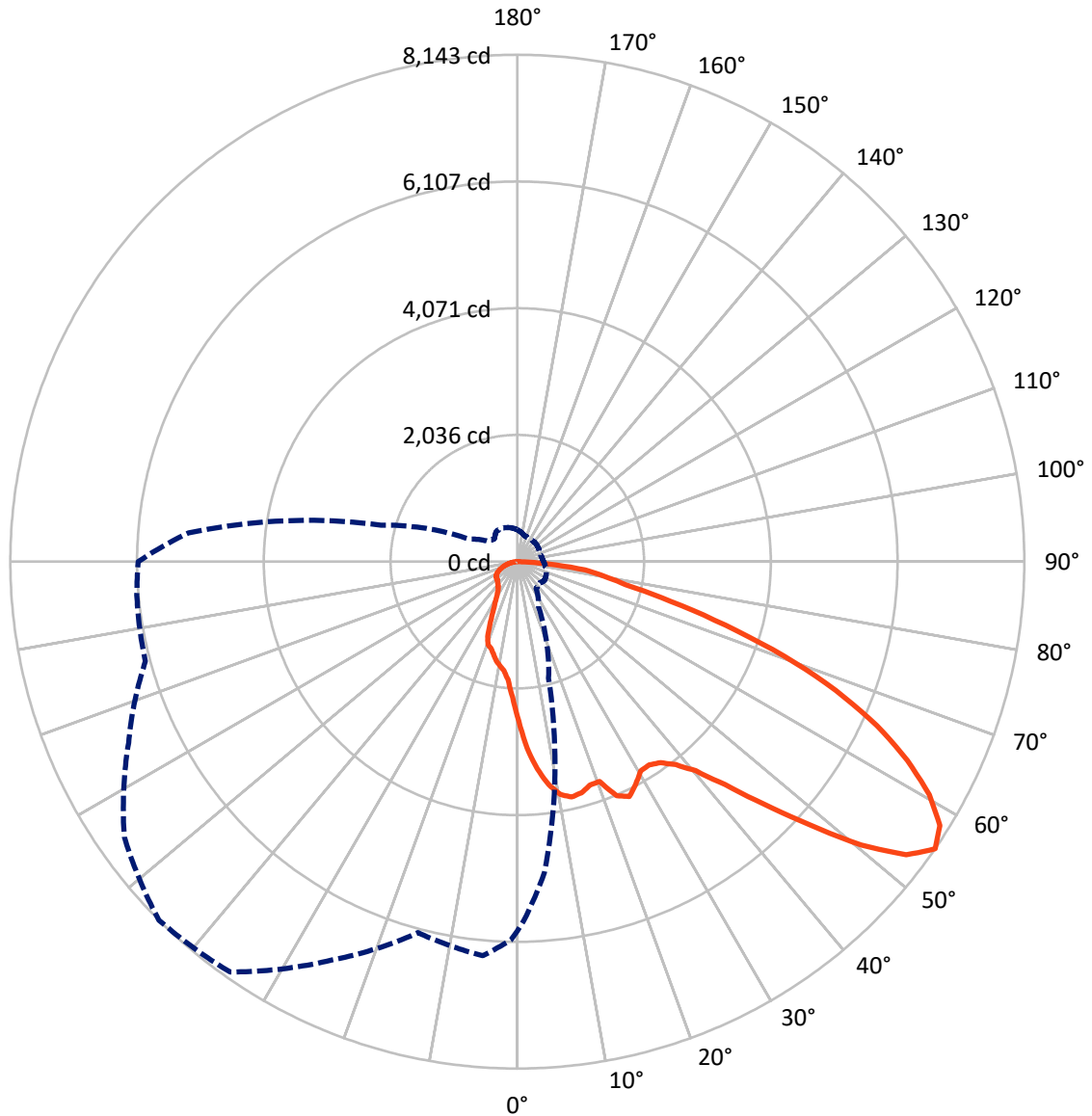
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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
<b>House Side</b>	Lumens	2229.4	0.0	2229.4
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	7962.5	0.0	7962.5
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	10192.0	0.0	10192.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.8	2.1
10°-20°	575.1	5.6
20°-30°	993.6	9.7
30°-40°	1154.7	11.3
40°-50°	1611.0	15.8
50°-60°	2185.9	21.4
60°-70°	2079.7	20.4
70°-80°	1123.5	11.0
80°-90°	251.8	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°	10192.0	100.0
0°-180°	10192.0	100.0

**Coefficient of Utilization**



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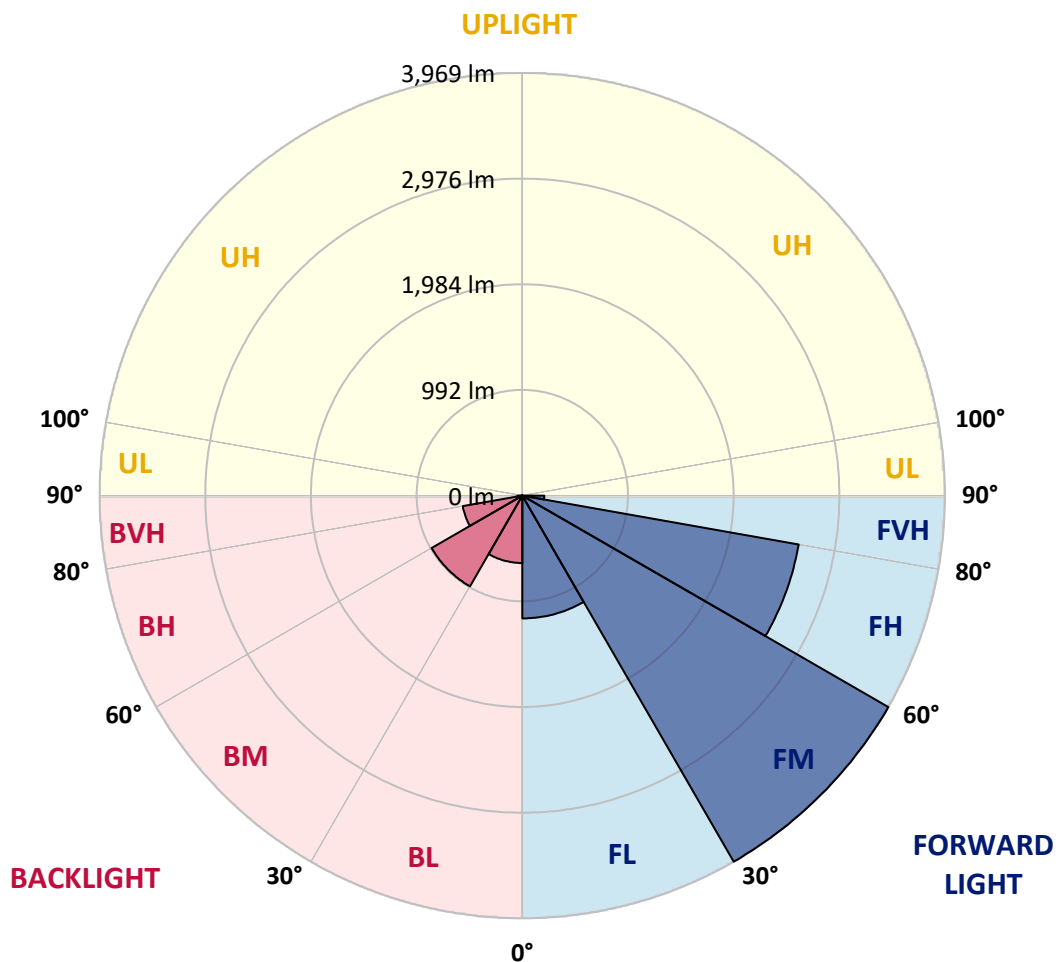
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1152.7	11.3			
FM	(30°-60°)	3968.5	38.9			
FH	(60°-80°)	2635.5	25.9			G2/5000
FVH	(80°-90°)	205.8	2.0			G2/225
BL	(0°-30°)	632.7	6.2	B2/1000		
BM	(30°-60°)	983.0	9.6	B1/1000		
BH	(60°-80°)	567.7	5.6	B2/1000		G2/1000
BVH	(80°-90°)	46.0	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8
2.5°	2841.5	2830.8	2800.5	2721.2	2641.2	2559.8	2497.3	2419.3	2337.9	2294.2	2238.4
5°	2880.5	2868.4	2797.2	2618.3	2456.3	2286.1	2150.3	2031.3	1982.9	1911.6	1854.5
7.5°	2789.1	2783.7	2676.8	2420.0	2198.1	1975.5	1821.5	1726.0	1639.3	1607.0	1613.8
10°	2705.7	2684.2	2550.4	2214.9	1956.0	1775.1	1664.9	1571.4	1510.2	1494.1	1497.4
12.5°	2636.5	2607.6	2449.5	2077.0	1850.4	1705.9	1565.3	1467.8	1412.0	1427.5	1479.9
15°	2622.3	2583.3	2407.2	2030.0	1792.6	1606.4	1452.4	1340.1	1298.4	1332.0	1416.1
17.5°	2713.8	2664.7	2479.8	2045.4	1737.5	1504.8	1315.9	1187.5	1152.5	1206.3	1315.9
20°	3007.6	2935.0	2706.4	2134.9	1732.1	1454.4	1236.5	1107.4	1122.2	1224.4	1338.7
22.5°	3550.9	3442.0	3103.1	2265.3	1760.3	1441.6	1220.4	1153.2	1234.5	1321.3	1396.6
25°	3658.5	3573.1	3174.4	2294.9	1754.3	1432.9	1266.1	1299.7	1390.5	1433.5	1407.3
27.5°	3719.0	3621.5	3169.7	2148.3	1568.7	1299.7	1210.3	1266.1	1289.0	1247.3	1176.0
30°	3860.2	3758.7	3249.7	1994.3	1291.7	964.2	845.2	822.3	837.8	845.9	820.3
32.5°	4054.5	3954.4	3400.3	1893.5	1116.8	797.5	680.5	648.2	640.8	632.1	622.0
35°	4306.0	4152.0	3548.2	1828.9	1044.9	737.6	630.0	605.2	595.1	583.0	572.2
37.5°	4561.5	4400.2	3735.2	1761.0	997.2	695.9	596.4	585.0	567.5	554.7	539.3
40°	4833.2	4652.3	3905.3	1701.8	950.8	669.0	572.2	570.9	548.0	533.2	515.1
42.5°	5068.5	4882.3	4057.2	1665.5	915.1	640.8	557.4	561.5	537.9	515.7	492.2
45°	5255.4	5072.6	4197.8	1665.5	886.2	612.6	554.7	552.0	528.5	500.9	474.0
47.5°	5419.5	5230.6	4334.9	1707.9	868.1	589.0	539.9	544.6	520.4	485.5	459.2
50°	5546.6	5379.8	4519.8	1773.8	849.9	570.2	521.1	546.7	513.7	477.4	447.1
52.5°	5708.6	5559.4	4742.4	1863.9	834.4	549.3	504.3	546.7	513.0	478.1	445.1
55°	5933.2	5775.9	5010.7	1938.5	809.6	529.8	489.5	531.2	511.0	474.7	439.7
57.5°	6090.6	5972.9	5200.3	1988.3	773.9	505.0	476.1	516.4	502.3	461.9	423.6
58°	6098.0	5983.0	5227.9	1999.7	765.2	500.3	472.7	509.7	498.2	456.6	418.2
60°	6013.2	5914.4	5233.3	1983.6	715.4	476.7	455.2	482.1	476.7	425.0	389.3
62.5°	5705.3	5599.7	5016.1	1852.5	649.5	447.8	428.3	445.1	433.0	380.6	347.6
65°	5267.5	5073.2	4569.6	1646.7	602.5	416.9	392.0	393.4	380.6	342.9	314.0
67.5°	4684.6	4467.4	3869.0	1387.8	566.8	382.6	349.0	345.6	330.1	305.9	282.4
70°	3967.1	3818.5	3144.1	1129.0	527.2	344.9	300.6	298.5	289.1	271.0	250.1
72.5°	3215.4	3026.5	2539.0	903.7	478.7	308.6	255.5	259.5	247.4	234.7	215.8
75°	2372.9	2249.2	1962.7	724.8	413.5	269.0	213.1	214.5	209.1	195.7	180.9
77.5°	1562.6	1525.7	1404.0	476.1	318.0	213.8	174.2	175.5	171.5	159.4	143.9
80°	1051.6	1026.7	951.4	306.6	212.5	154.7	134.5	135.8	135.2	122.4	101.5
82.5°	648.2	637.4	613.2	207.1	147.3	110.9	88.8	92.8	100.2	86.1	69.3
85°	305.9	306.6	370.5	113.0	86.7	71.3	48.4	51.8	51.8	51.8	39.0
87.5°	39.7	41.7	51.1	47.7	31.6	26.9	17.5	14.8	12.8	16.8	12.1
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°	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8
2.5°	2218.9	2205.5	2176.5	2169.8	2165.8	2177.2	2147.0	2155.0	2141.6	2179.2	2173.2
5°	1857.8	1859.2	1882.7	1898.2	1903.6	1898.2	1878.0	1843.0	1816.1	1805.4	1808.1
7.5°	1601.0	1624.5	1664.9	1709.9	1750.9	1763.0	1751.6	1685.0	1612.4	1566.7	1551.9
10°	1515.6	1547.2	1593.6	1629.2	1665.5	1694.4	1700.5	1648.7	1562.6	1454.4	1412.0
12.5°	1520.3	1563.3	1607.7	1619.1	1615.8	1627.2	1621.8	1613.1	1556.6	1418.8	1348.2
15°	1475.9	1527.0	1557.9	1551.9	1541.1	1531.0	1516.9	1494.7	1474.6	1377.7	1299.7
17.5°	1373.7	1426.2	1451.7	1453.7	1453.7	1451.0	1416.7	1408.7	1406.0	1358.9	1311.2
20°	1392.5	1421.4	1410.0	1391.2	1396.6	1414.7	1394.5	1390.5	1406.0	1426.8	1418.1
22.5°	1403.3	1393.2	1307.1	1223.8	1204.9	1261.4	1272.8	1317.9	1380.4	1455.7	1504.8
25°	1336.7	1255.4	1101.4	1007.2	954.1	1006.6	1075.2	1158.5	1252.0	1348.8	1406.0
27.5°	1117.5	1055.7	945.4	860.7	814.3	822.3	880.8	956.8	1043.6	1108.8	1150.5
30°	841.8	814.3	757.1	728.2	700.0	693.2	718.1	747.0	785.4	793.4	804.2
32.5°	619.9	615.9	619.3	609.9	604.5	603.8	596.4	603.1	607.2	611.9	602.5
35°	560.8	555.4	546.0	543.3	539.9	541.3	537.9	534.6	537.2	541.3	544.0
37.5°	530.5	522.5	509.0	504.3	504.3	506.3	500.9	499.6	504.3	517.1	523.8
40°	507.0	497.6	482.1	476.1	480.1	485.5	478.1	475.4	486.8	500.3	511.0
42.5°	484.8	477.4	462.6	455.9	459.2	469.3	458.6	456.6	471.3	486.1	498.9
45°	466.0	458.6	445.1	441.8	443.1	452.5	445.1	445.1	459.2	475.4	486.8
47.5°	451.2	441.8	433.0	430.3	431.7	437.1	435.7	435.7	449.2	466.0	477.4
50°	436.4	428.3	416.9	418.2	421.6	429.0	428.3	430.3	443.8	464.6	476.7
52.5°	429.7	417.6	404.8	406.1	416.2	425.0	422.3	424.3	439.7	478.7	496.2
55°	422.3	406.1	391.3	393.4	404.8	417.6	414.2	416.9	435.0	488.2	512.4
57.5°	408.1	389.3	373.2	374.5	391.3	404.8	399.4	402.8	424.3	478.1	503.6
58°	402.1	386.0	370.5	371.2	387.3	402.1	396.0	398.7	420.9	475.4	499.6
60°	376.5	367.1	353.7	354.4	369.8	382.6	379.2	381.9	403.4	455.9	474.0
62.5°	341.6	336.2	332.8	332.8	342.2	354.4	357.7	361.1	380.6	412.2	428.3
65°	303.9	303.9	304.6	304.6	310.6	326.1	328.1	336.9	355.0	370.5	382.6
67.5°	278.4	277.0	278.4	275.0	277.7	287.1	297.2	305.3	324.1	334.9	338.9
70°	245.4	244.8	245.4	240.7	244.1	252.1	258.9	272.3	291.8	299.9	301.9
72.5°	213.1	213.1	214.5	211.1	211.1	219.9	224.6	239.4	257.5	262.2	262.9
75°	179.5	181.5	181.5	176.8	178.2	183.6	189.6	201.7	218.5	221.9	221.9
77.5°	142.5	149.9	149.9	145.2	147.3	147.9	156.0	162.0	174.8	176.2	170.8
80°	103.5	110.9	117.0	113.0	116.3	112.3	117.0	121.0	133.8	127.8	119.0
82.5°	74.0	79.3	84.0	84.7	81.4	74.0	80.0	80.7	86.7	78.7	74.0
85°	41.0	45.7	51.8	49.1	43.7	39.0	41.0	42.4	41.7	39.7	37.0
87.5°	10.8	11.4	12.8	9.4	8.7	7.4	10.1	10.1	11.4	12.1	11.4
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°	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8
2.5°	2177.9	2207.5	2271.4	2319.8	2378.9	2450.9	2535.6	2621.0	2713.1	2742.0	2782.4
5°	1802.0	1876.0	1906.9	1995.0	2082.4	2213.5	2353.4	2515.4	2692.9	2778.3	2860.4
7.5°	1539.8	1579.5	1611.7	1676.3	1781.2	1940.5	2116.0	2318.4	2569.9	2694.3	2814.6
10°	1398.6	1402.6	1442.3	1522.3	1613.8	1754.3	1920.4	2147.0	2427.3	2578.6	2719.8
12.5°	1305.1	1287.6	1330.7	1414.0	1517.6	1647.4	1800.0	2015.8	2324.5	2479.8	2650.6
15°	1223.1	1195.5	1227.8	1313.2	1415.4	1568.0	1732.1	1960.7	2284.1	2465.0	2654.6
17.5°	1225.1	1149.1	1160.6	1232.5	1334.0	1489.4	1688.4	1958.7	2345.3	2553.8	2778.3
20°	1376.4	1254.7	1202.9	1216.4	1314.5	1484.0	1708.6	2052.8	2546.4	2850.3	3090.3
22.5°	1525.0	1451.7	1368.3	1340.8	1394.5	1572.1	1837.0	2275.4	2983.4	3441.3	3875.0
25°	1473.2	1535.8	1514.9	1475.9	1488.0	1635.3	1924.4	2458.3	3323.0	3838.7	4246.2
27.5°	1178.7	1292.3	1315.2	1314.5	1319.2	1440.3	1730.7	2335.2	3365.3	3914.7	4304.0
30°	828.4	838.5	850.6	874.1	895.6	1003.9	1354.2	2050.1	3346.5	3949.0	4339.0
32.5°	597.8	611.2	628.0	660.3	711.4	849.2	1184.8	1959.4	3446.0	4090.9	4441.2
35°	546.7	562.1	578.3	615.2	663.7	791.4	1117.5	1921.7	3609.4	4320.8	4624.7
37.5°	530.5	548.0	562.1	589.0	628.0	749.7	1056.3	1896.2	3776.8	4564.2	4870.8
40°	519.1	539.3	550.7	572.2	599.1	711.4	1001.9	1876.0	3938.9	4786.8	5068.5
42.5°	509.0	529.8	544.6	560.1	582.3	677.1	953.5	1855.8	4079.4	5002.6	5265.5
45°	496.9	523.1	542.0	554.1	573.6	648.2	916.5	1839.7	4239.5	5194.3	5464.6
47.5°	486.8	515.7	539.3	553.4	560.8	628.0	886.9	1861.9	4431.8	5394.6	5649.5
50°	487.5	515.1	544.6	566.8	547.3	611.2	868.7	1949.9	4681.9	5632.7	5795.4
52.5°	509.0	542.6	566.2	571.5	528.5	591.0	859.3	2103.9	4977.7	5843.1	5942.6
55°	533.2	568.2	593.7	590.4	518.4	565.5	857.3	2268.0	5301.8	6088.5	6134.3
57.5°	524.5	575.6	614.6	597.1	519.1	540.6	848.6	2400.5	5572.8	6272.1	6323.9
58°	521.8	572.9	617.3	595.7	517.1	533.2	846.5	2411.9	5610.5	6284.9	6350.8
60°	495.6	549.3	615.2	585.7	505.6	513.0	824.4	2448.9	5600.4	6219.0	6366.9
62.5°	447.8	492.2	568.8	536.6	470.7	486.1	774.6	2403.1	5327.4	5901.6	6130.9
65°	394.0	427.0	478.1	472.0	420.9	458.6	706.7	2222.3	4780.7	5386.6	5628.0
67.5°	353.7	380.6	412.9	404.1	378.6	421.6	633.4	1916.3	4167.5	4768.0	5071.9
70°	312.7	333.5	349.6	343.6	335.5	385.3	568.2	1555.3	3579.8	4180.3	4474.8
72.5°	271.0	290.5	303.9	295.2	290.5	347.0	515.1	1207.0	2827.4	3448.7	3827.3
75°	226.6	246.1	255.5	245.4	242.7	305.9	436.4	901.7	2121.4	2658.7	2985.4
77.5°	175.5	196.3	208.4	205.1	206.4	251.5	352.3	617.3	1516.9	1812.1	2156.4
80°	123.0	145.9	154.0	150.6	160.0	191.6	248.8	392.0	1046.2	1176.0	1418.8
82.5°	76.0	97.5	98.8	102.2	108.9	141.9	187.6	238.7	656.9	679.1	855.3
85°	38.3	46.4	49.8	55.1	61.2	86.7	106.9	147.9	422.9	320.1	478.1
87.5°	12.8	13.4	16.1	20.2	24.9	35.6	45.7	60.5	104.9	57.8	147.9
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: P451597

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8
2.5°	2863.7	2920.9	2962.6	3000.9	2963.9	2960.6	2924.2	2865.8	2841.5	2841.5
5°	3032.5	3166.3	3274.6	3343.8	3314.2	3243.0	3125.3	2975.4	2894.7	2880.5
7.5°	3078.9	3343.2	3544.2	3615.5	3565.7	3408.4	3183.1	2930.3	2814.6	2789.1
10°	3050.7	3394.3	3689.4	3802.4	3733.1	3495.1	3187.8	2877.9	2735.3	2705.7
12.5°	3021.1	3401.0	3716.3	3879.7	3834.7	3565.0	3222.1	2843.6	2678.8	2636.5
15°	3042.6	3403.7	3683.4	3852.2	3881.1	3649.1	3278.6	2868.4	2667.4	2622.3
17.5°	3178.4	3454.8	3636.3	3772.8	3874.3	3763.4	3439.3	2987.5	2769.6	2713.8
20°	3462.2	3577.1	3663.2	3768.8	3932.2	3996.7	3768.1	3314.2	3056.7	3007.6
22.5°	4283.8	4263.0	4086.8	4084.8	4321.5	4580.4	4564.9	3978.6	3591.3	3550.9
25°	4591.8	4495.0	4240.1	4178.3	4282.5	4681.9	4624.1	4114.4	3756.7	3658.5
27.5°	4471.4	4231.4	4064.0	4049.8	4015.5	4392.8	4531.9	4169.5	3814.5	3719.0
30°	4464.0	4111.0	3871.7	3899.9	3932.8	4293.2	4583.1	4342.3	3962.4	3860.2
32.5°	4482.2	4127.8	3885.8	3891.2	3989.3	4308.0	4639.5	4530.6	4156.8	4054.5
35°	4555.5	4223.3	3975.9	3963.1	4116.4	4404.9	4735.7	4826.5	4422.3	4306.0
37.5°	4673.8	4413.6	4140.6	4137.3	4359.8	4579.7	4855.4	5125.0	4686.6	4561.5
40°	4848.0	4636.2	4433.8	4415.6	4690.6	4864.1	5010.7	5443.0	4993.9	4833.2
42.5°	5058.4	4903.1	4820.4	4892.4	5156.6	5183.5	5252.8	5736.9	5255.4	5068.5
45°	5253.4	5246.0	5361.0	5552.0	5706.0	5544.6	5505.6	5933.9	5458.5	5255.4
47.5°	5485.4	5685.8	6032.7	6312.5	6473.8	5964.8	5721.4	6062.3	5606.4	5419.5
50°	5720.7	6212.3	6766.3	7156.3	7190.6	6421.4	5870.0	6183.4	5740.9	5546.6
52.5°	5968.2	6632.5	7370.1	7823.3	7756.8	6818.8	6013.9	6265.4	5879.4	5708.6
55°	6183.4	6890.0	7707.7	8142.7	8045.2	7060.8	6169.2	6354.1	6077.1	5933.2
57.5°	6303.7	6911.6	7623.6	8003.5	7898.0	7013.8	6240.5	6420.0	6203.5	6090.6
58°	6321.2	6882.6	7549.0	7922.8	7815.3	6974.1	6239.8	6417.3	6211.6	6098.0
60°	6305.7	6695.0	7271.3	7604.1	7491.2	6725.3	6214.3	6366.9	6109.4	6013.2
62.5°	6162.5	6369.6	6791.9	7033.9	7001.7	6336.7	6109.4	6176.6	5798.1	5705.3
65°	5974.2	5925.8	6178.0	6349.4	6373.6	6045.5	6005.2	5765.1	5398.7	5267.5
67.5°	5745.6	5422.9	5422.2	5519.7	5560.0	5597.7	5788.0	5318.0	4823.1	4684.6
70°	5357.7	4647.6	4433.8	4548.8	4515.1	4833.2	5400.0	4690.0	4129.2	3967.1
72.5°	4646.3	3688.1	3345.8	3493.8	3409.0	3790.3	4724.9	3859.6	3414.4	3215.4
75°	3766.1	2758.8	2405.8	2541.7	2489.2	2875.2	3931.5	2803.2	2448.9	2372.9
77.5°	2924.2	1999.0	1794.0	1775.1	1814.1	2139.6	2883.9	1892.8	1614.4	1562.6
80°	1878.7	1430.9	1443.0	1418.8	1438.9	1348.8	1750.9	1207.6	1093.3	1051.6
82.5°	1236.5	997.2	1188.8	1097.4	1042.2	907.1	1148.5	790.7	671.1	648.2
85°	842.5	734.3	668.4	511.0	601.8	698.6	861.3	425.6	337.5	305.9
87.5°	380.6	255.5	187.6	115.7	182.9	211.1	418.2	49.8	38.3	39.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)