

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: P650806

Luminaire Tested: **GALN-SA3C-840-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650806  
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-840-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 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: 15214.5 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

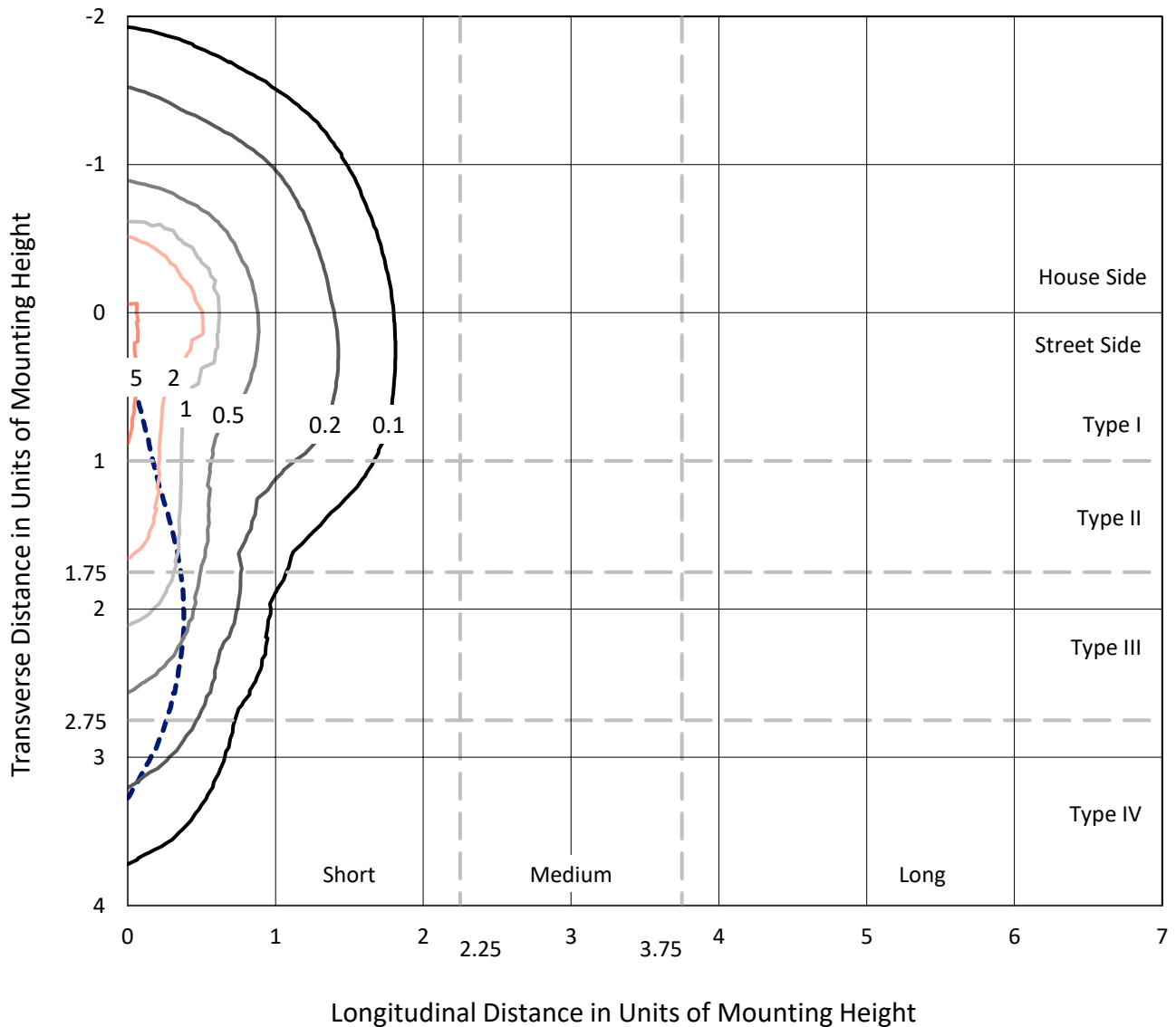
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

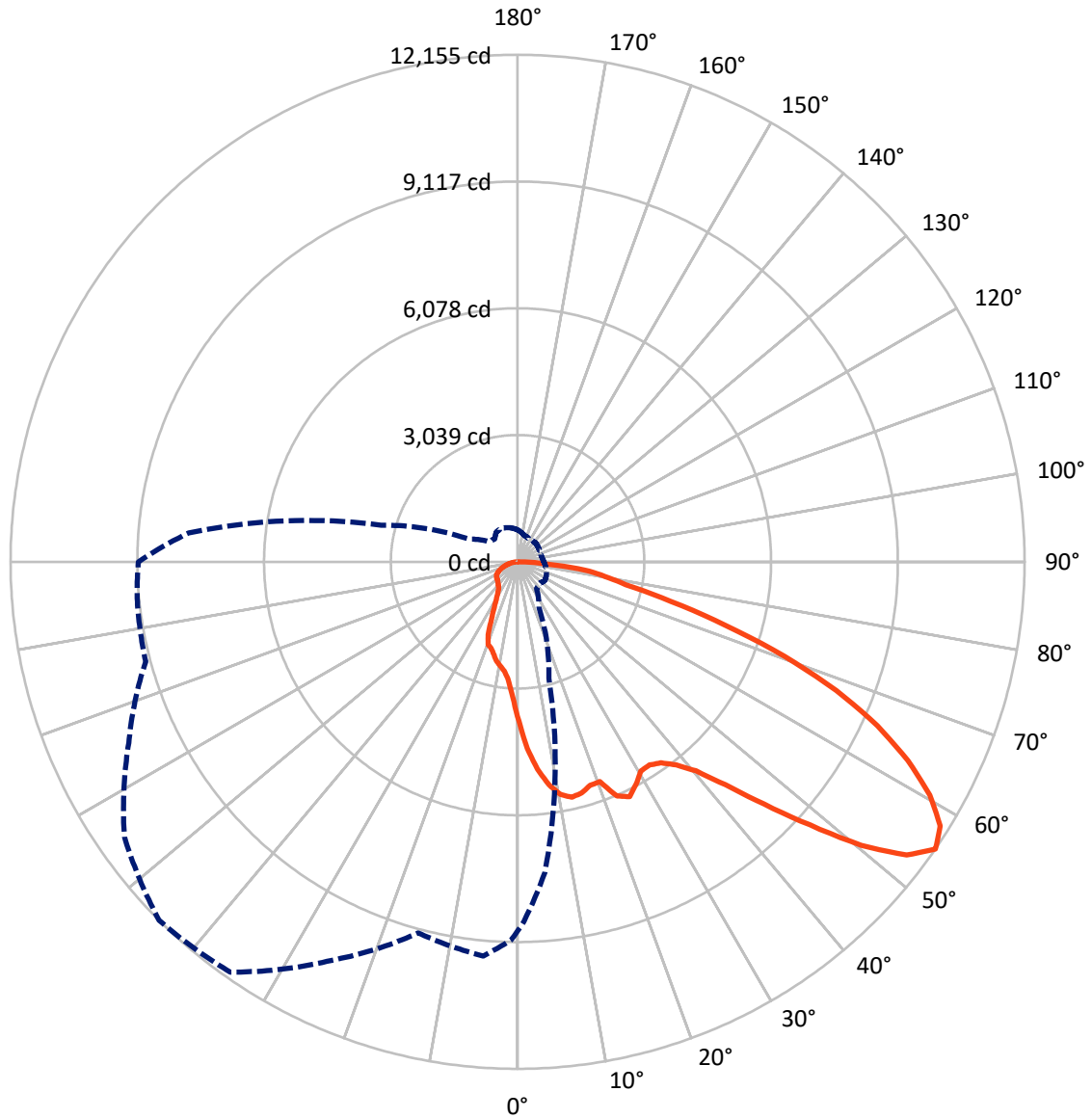
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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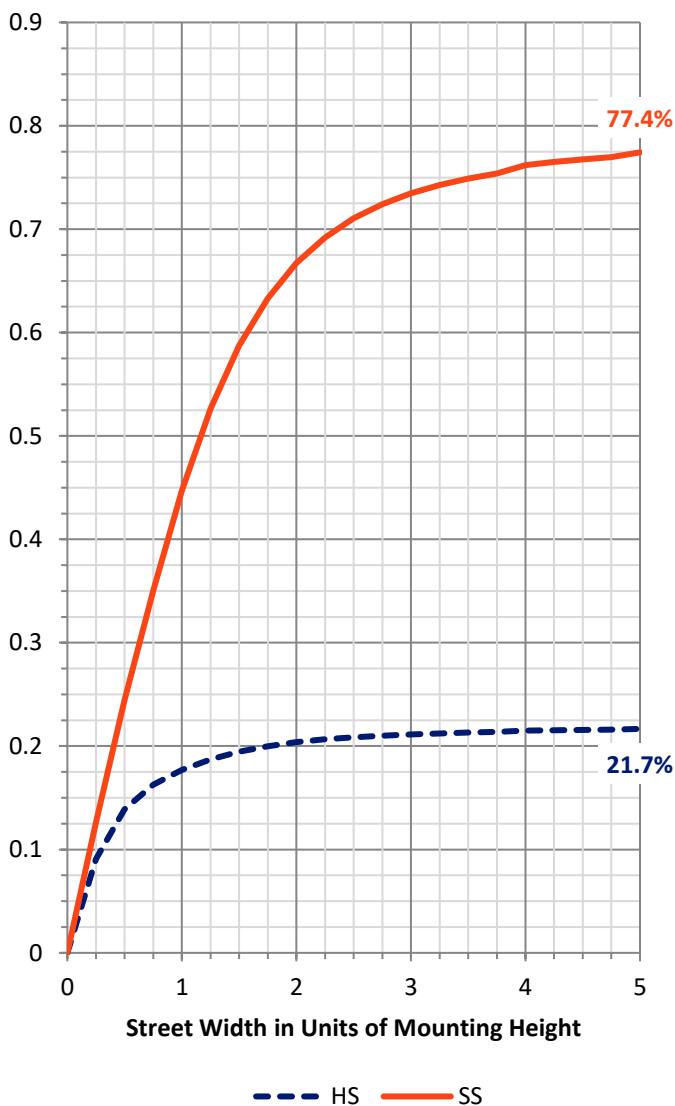
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3328.1	0.0	3328.1
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	11886.4	0.0	11886.4
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	15214.5	0.0	15214.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.6	2.1
10°-20°	858.5	5.6
20°-30°	1483.2	9.7
30°-40°	1723.7	11.3
40°-50°	2404.9	15.8
50°-60°	3263.1	21.4
60°-70°	3104.5	20.4
70°-80°	1677.1	11.0
80°-90°	375.9	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°	15214.5	100.0
0°-180°	15214.5	100.0

**Coefficient of Utilization**



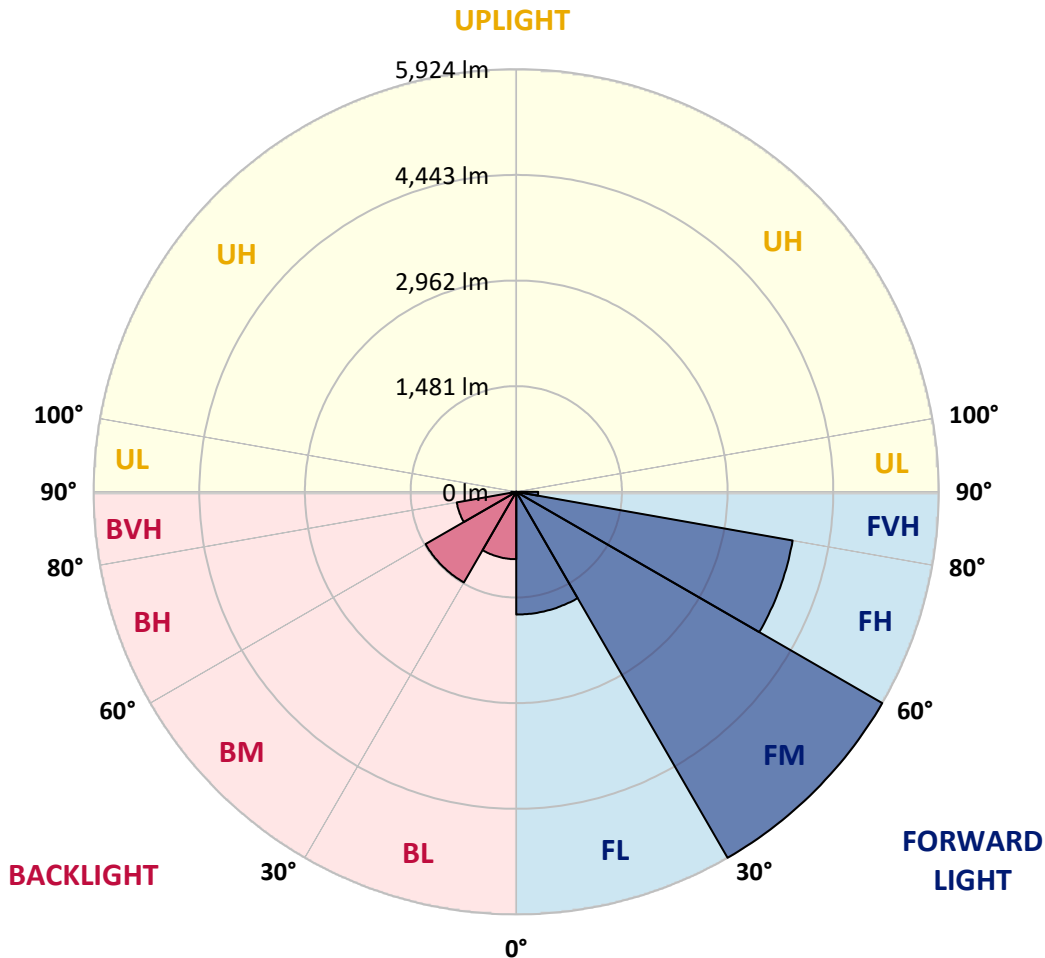
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1720.8	11.3			
FM (30°-60°)	5924.2	38.9			
FH (60°-80°)	3934.2	25.9			G2/5000
FVH (80°-90°)	307.2	2.0			G3/500
BL (0°-30°)	944.5	6.2	B2/1000		
BM (30°-60°)	1467.5	9.6	B2/2500		
BH (60°-80°)	847.4	5.6	B2/1000		G2/1000
BVH (80°-90°)	68.7	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°	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2
2.5°	4241.8	4225.8	4180.6	4062.2	3942.7	3821.3	3727.9	3611.5	3490.1	3424.8	3341.5
5°	4300.0	4282.0	4175.6	3908.6	3666.7	3412.8	3210.0	3032.3	2960.1	2853.7	2768.3
7.5°	4163.5	4155.5	3995.9	3612.5	3281.2	2949.0	2719.1	2576.7	2447.1	2399.0	2409.0
10°	4039.1	4006.9	3807.2	3306.3	2919.9	2649.9	2485.2	2345.7	2254.4	2230.3	2235.4
12.5°	3935.7	3892.6	3656.7	3100.6	2762.3	2546.5	2336.7	2191.1	2107.9	2130.9	2209.2
15°	3914.6	3856.4	3593.4	3030.3	2676.0	2397.9	2168.1	2000.5	1938.3	1988.5	2113.9
17.5°	4051.1	3977.8	3701.8	3053.4	2593.6	2246.4	1964.3	1772.6	1720.4	1800.7	1964.3
20°	4489.8	4381.4	4040.1	3186.9	2585.7	2171.1	1845.9	1653.2	1675.3	1827.8	1998.5
22.5°	5300.8	5138.2	4632.3	3381.7	2627.8	2152.0	1821.8	1721.4	1842.9	1972.4	2084.8
25°	5461.4	5333.9	4738.7	3425.8	2618.8	2139.0	1890.1	1940.3	2075.8	2140.0	2100.8
27.5°	5551.7	5406.2	4731.6	3207.0	2341.8	1940.3	1806.7	1890.1	1924.2	1862.0	1755.6
30°	5762.5	5611.0	4851.1	2977.1	1928.2	1439.4	1261.7	1227.6	1250.7	1262.7	1224.6
32.5°	6052.6	5903.1	5075.9	2826.5	1667.2	1190.4	1015.8	967.6	956.6	943.5	928.5
35°	6428.0	6198.2	5296.8	2730.2	1559.8	1101.1	940.5	903.4	888.3	870.3	854.2
37.5°	6809.4	6568.5	5575.8	2628.8	1488.6	1038.9	890.3	873.3	847.1	828.1	805.0
40°	7214.9	6944.9	5829.7	2540.5	1419.3	998.7	854.2	852.2	818.0	796.0	768.8
42.5°	7566.2	7288.2	6056.6	2486.2	1366.1	956.6	832.1	838.1	803.0	769.9	734.8
45°	7845.3	7572.3	6266.4	2486.2	1323.0	914.4	828.1	824.1	788.9	747.8	707.6
47.5°	8090.2	7808.2	6471.2	2549.5	1295.8	879.3	806.0	813.0	776.9	724.7	685.6
50°	8279.9	8031.0	6747.2	2647.9	1268.7	851.2	777.9	816.0	766.8	712.7	667.5
52.5°	8521.8	8299.0	7079.5	2782.4	1245.7	820.1	752.8	816.0	765.9	713.7	664.5
55°	8857.1	8622.2	7479.9	2893.8	1208.5	791.0	730.7	793.0	762.9	708.6	656.5
57.5°	9092.0	8916.3	7763.0	2968.1	1155.3	753.8	710.6	770.9	749.8	689.5	632.3
58°	9103.0	8931.3	7804.1	2985.1	1142.2	746.8	705.6	760.9	743.8	681.5	624.4
60°	8976.5	8829.0	7812.1	2961.1	1068.0	711.7	679.5	719.7	711.7	634.4	581.1
62.5°	8516.8	8359.2	7487.9	2765.3	969.6	668.5	639.4	664.5	646.4	568.1	518.9
65°	7863.4	7573.3	6821.4	2458.2	899.4	622.3	585.2	587.2	568.1	511.9	468.8
67.5°	6993.1	6668.9	5775.6	2071.7	846.1	571.1	520.9	516.0	492.8	456.7	421.6
70°	5922.1	5700.3	4693.5	1685.3	786.9	514.9	448.7	445.6	431.6	404.5	373.4
72.5°	4799.9	4517.9	3790.1	1349.0	714.7	460.7	381.4	387.4	369.4	350.3	322.2
75°	3542.2	3357.5	2930.0	1082.0	617.3	401.5	318.2	320.2	312.2	292.1	270.0
77.5°	2332.7	2277.5	2095.9	710.6	474.7	319.2	260.0	262.0	255.9	237.9	214.8
80°	1569.9	1532.7	1420.3	457.7	317.2	230.9	200.7	202.8	201.8	182.7	151.5
82.5°	967.6	951.6	915.4	309.2	219.8	165.6	132.5	138.5	149.5	128.5	103.4
85°	456.7	457.7	553.0	168.6	129.5	106.4	72.2	77.3	77.3	77.3	58.2
87.5°	59.2	62.2	76.3	71.2	47.2	40.1	26.1	22.1	19.1	25.1	18.1
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°	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2
2.5°	3312.4	3292.3	3249.1	3239.1	3233.1	3250.1	3205.0	3217.0	3196.9	3253.2	3244.1
5°	2773.4	2775.4	2810.5	2833.6	2841.6	2833.6	2803.5	2751.2	2711.1	2695.1	2699.1
7.5°	2390.0	2425.0	2485.2	2552.5	2613.7	2631.8	2614.8	2515.4	2407.0	2338.7	2316.6
10°	2262.5	2309.6	2378.9	2432.1	2486.2	2529.5	2538.5	2461.2	2332.7	2171.1	2107.9
12.5°	2269.4	2333.7	2400.0	2417.0	2412.0	2429.1	2421.1	2408.0	2323.7	2117.9	2012.5
15°	2203.3	2279.5	2325.7	2316.6	2300.6	2285.5	2264.5	2231.3	2201.2	2056.7	1940.3
17.5°	2050.7	2128.9	2167.1	2170.1	2170.1	2166.1	2114.9	2102.8	2098.8	2028.6	1957.3
20°	2078.8	2121.9	2104.9	2076.8	2084.8	2111.9	2081.8	2075.8	2098.8	2129.9	2116.9
22.5°	2094.8	2079.8	1951.3	1826.8	1798.7	1883.0	1900.1	1967.4	2060.7	2173.1	2246.4
25°	1995.4	1874.0	1644.2	1503.6	1424.3	1502.6	1605.0	1729.4	1869.0	2013.5	2098.8
27.5°	1668.2	1575.9	1411.3	1284.8	1215.5	1227.6	1314.9	1428.4	1557.8	1655.2	1717.4
30°	1256.7	1215.5	1130.2	1087.1	1044.9	1034.9	1072.0	1115.2	1172.4	1184.4	1200.4
32.5°	925.4	919.5	924.4	910.4	902.4	901.4	890.3	900.4	906.3	913.4	899.4
35°	837.1	829.1	815.0	811.1	806.0	808.0	803.0	797.9	802.0	808.0	812.1
37.5°	792.0	779.9	759.8	752.8	752.8	755.8	747.8	745.8	752.8	771.9	781.9
40°	756.8	742.8	719.7	710.6	716.7	724.7	713.7	709.6	726.7	746.8	762.9
42.5°	723.7	712.7	690.5	680.5	685.6	700.6	684.6	681.5	703.7	725.7	744.8
45°	695.6	684.6	664.5	659.4	661.4	675.5	664.5	664.5	685.6	709.6	726.7
47.5°	673.5	659.4	646.4	642.4	644.4	652.4	650.4	650.4	670.5	695.6	712.7
50°	651.4	639.4	622.3	624.4	629.3	640.4	639.4	642.4	662.5	693.6	711.7
52.5°	641.4	623.3	604.3	606.3	621.3	634.4	630.3	633.4	656.5	714.7	740.8
55°	630.3	606.3	584.2	587.2	604.3	623.3	618.3	622.3	649.4	728.7	764.9
57.5°	609.3	581.1	557.1	559.1	584.2	604.3	596.2	601.2	633.4	713.7	751.8
58°	600.2	576.2	553.0	554.1	578.2	600.2	591.2	595.3	628.3	709.6	745.8
60°	562.1	548.1	528.0	529.0	552.0	571.1	566.1	570.1	602.2	680.5	707.6
62.5°	509.9	501.9	496.9	496.9	510.9	529.0	534.0	539.0	568.1	615.3	639.4
65°	453.7	453.7	454.7	454.7	463.7	486.9	489.8	502.9	530.0	553.0	571.1
67.5°	415.5	413.5	415.5	410.5	414.5	428.6	443.6	455.7	483.8	499.9	505.9
70°	366.3	365.3	366.3	359.4	364.3	376.4	386.4	406.5	435.6	447.7	450.7
72.5°	318.2	318.2	320.2	315.2	315.2	328.2	335.2	357.3	384.4	391.5	392.5
75°	268.0	271.0	271.0	264.0	266.0	274.0	283.1	301.2	326.2	331.3	331.3
77.5°	212.8	223.9	223.9	216.8	219.8	220.8	232.9	241.9	261.0	263.0	255.0
80°	154.6	165.6	174.7	168.6	173.7	167.6	174.7	180.6	199.7	190.7	177.7
82.5°	110.4	118.4	125.5	126.5	121.4	110.4	119.4	120.4	129.5	117.4	110.4
85°	61.2	68.3	77.3	73.3	65.3	58.2	61.2	63.2	62.2	59.2	55.2
87.5°	16.1	17.1	19.1	14.0	13.0	11.0	15.1	15.1	17.1	18.1	17.1
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2
2.5°	3251.1	3295.3	3390.7	3462.9	3551.3	3658.7	3785.1	3912.6	4050.1	4093.3	4153.5
5°	2690.0	2800.4	2846.6	2978.1	3108.6	3304.4	3513.1	3755.0	4020.0	4147.5	4269.9
7.5°	2298.6	2357.8	2406.0	2502.3	2658.9	2896.8	3158.8	3460.9	3836.3	4022.0	4201.7
10°	2087.8	2093.8	2153.0	2272.5	2409.0	2618.8	2866.7	3205.0	3623.5	3849.3	4060.2
12.5°	1948.3	1922.2	1986.4	2110.9	2265.5	2459.2	2687.0	3009.3	3470.0	3701.8	3956.7
15°	1825.8	1784.7	1832.9	1960.3	2112.9	2340.8	2585.7	2926.9	3409.8	3679.7	3962.8
17.5°	1828.8	1715.4	1732.5	1839.9	1991.4	2223.3	2520.4	2923.9	3501.1	3812.3	4147.5
20°	2054.6	1873.0	1795.7	1815.8	1962.3	2215.3	2550.5	3064.4	3801.2	4254.9	4613.2
22.5°	2276.5	2167.1	2042.6	2001.5	2081.8	2346.7	2742.2	3396.7	4453.6	5137.2	5784.6
25°	2199.2	2292.6	2261.4	2203.3	2221.3	2441.1	2872.7	3669.7	4960.6	5730.4	6338.7
27.5°	1759.5	1929.2	1963.3	1962.3	1969.4	2150.0	2583.6	3486.0	5023.7	5843.8	6425.0
30°	1236.6	1251.7	1269.7	1304.9	1337.0	1498.6	2021.5	3060.4	4995.6	5895.0	6477.2
32.5°	892.3	912.4	937.5	985.7	1061.9	1267.7	1768.6	2924.9	5144.2	6106.8	6629.8
35°	816.0	839.1	863.2	918.5	990.7	1181.4	1668.2	2868.7	5388.1	6450.0	6903.8
37.5°	792.0	818.0	839.1	879.3	937.5	1119.2	1576.9	2830.6	5638.1	6813.4	7271.1
40°	774.9	805.0	822.1	854.2	894.3	1061.9	1495.6	2800.4	5879.9	7145.6	7566.2
42.5°	759.8	791.0	813.0	836.1	869.3	1010.8	1423.3	2770.3	6089.8	7467.9	7860.3
45°	741.8	781.0	809.0	827.1	856.2	967.6	1368.1	2746.3	6328.6	7753.9	8157.4
47.5°	726.7	769.9	805.0	826.1	837.1	937.5	1323.9	2779.3	6615.7	8053.1	8433.5
50°	727.7	768.8	813.0	846.1	817.0	912.4	1296.8	2910.9	6989.1	8408.4	8651.3
52.5°	759.8	810.1	845.1	853.2	788.9	882.3	1282.8	3140.7	7430.7	8722.6	8871.1
55°	796.0	848.1	886.3	881.3	773.9	844.1	1279.7	3385.6	7914.6	9088.9	9157.1
57.5°	782.9	859.2	917.4	891.3	774.9	807.0	1266.7	3583.4	8319.1	9362.9	9440.2
58°	778.9	855.2	921.4	889.4	771.9	796.0	1263.7	3600.4	8375.3	9382.0	9480.4
60°	739.7	820.1	918.5	874.3	754.8	765.9	1230.6	3655.7	8360.2	9283.6	9504.5
62.5°	668.5	734.8	849.2	801.0	702.7	725.7	1156.3	3587.4	7952.7	8809.9	9152.2
65°	588.2	637.4	713.7	704.6	628.3	684.6	1055.0	3317.4	7136.6	8041.1	8401.3
67.5°	528.0	568.1	616.3	603.2	565.1	629.3	945.5	2860.7	6221.2	7117.6	7571.3
70°	466.8	497.9	521.9	512.9	500.9	575.2	848.1	2321.7	5344.0	6240.3	6679.9
72.5°	404.5	433.6	453.7	440.7	433.6	518.0	768.8	1801.8	4220.7	5148.2	5713.3
75°	338.3	367.3	381.4	366.3	362.4	456.7	651.4	1346.0	3166.8	3968.8	4456.6
77.5°	262.0	293.1	311.2	306.1	308.1	375.4	526.0	921.4	2264.5	2705.1	3219.0
80°	183.7	217.8	229.8	224.8	238.9	286.1	371.4	585.2	1561.8	1755.6	2117.9
82.5°	113.5	145.6	147.5	152.6	162.6	211.8	280.1	356.3	980.7	1013.8	1276.8
85°	57.2	69.3	74.3	82.3	91.3	129.5	159.6	220.8	631.3	477.8	713.7
87.5°	19.1	20.1	24.1	30.1	37.2	53.2	68.3	90.3	156.6	86.3	220.8
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: P650806  
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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2	3818.2
2.5°	4275.0	4360.2	4422.5	4479.8	4424.5	4419.5	4365.3	4278.0	4241.8	4241.8
5°	4526.9	4726.7	4888.2	4991.7	4947.4	4841.0	4665.4	4441.6	4321.1	4300.0
7.5°	4596.1	4990.7	5290.7	5397.1	5322.9	5088.0	4751.7	4374.3	4201.7	4163.5
10°	4554.0	5066.9	5507.5	5676.2	5572.8	5217.5	4758.8	4296.0	4083.2	4039.1
12.5°	4509.9	5076.9	5547.7	5791.6	5724.4	5321.8	4809.9	4244.9	3999.0	3935.7
15°	4542.0	5081.0	5498.5	5750.5	5793.6	5447.3	4894.3	4282.0	3981.9	3914.6
17.5°	4744.7	5157.3	5428.2	5632.0	5783.6	5618.0	5134.1	4459.7	4134.4	4051.1
20°	5168.3	5339.9	5468.4	5626.0	5869.9	5966.3	5625.0	4947.4	4563.0	4489.8
22.5°	6394.9	6363.8	6100.8	6097.8	6451.1	6837.5	6814.5	5939.1	5361.0	5300.8
25°	6854.6	6710.1	6329.6	6237.3	6392.9	6989.1	6902.8	6141.9	5608.0	5461.4
27.5°	6674.9	6316.6	6066.6	6045.5	5994.4	6557.4	6765.3	6224.2	5694.2	5551.7
30°	6663.9	6136.9	5779.6	5821.7	5870.9	6408.9	6841.5	6482.2	5915.1	5762.5
32.5°	6691.0	6162.0	5800.6	5808.7	5955.2	6431.0	6925.9	6763.2	6205.2	6052.6
35°	6800.4	6304.6	5935.2	5916.1	6144.9	6575.5	7069.4	7204.9	6601.7	6428.0
37.5°	6977.0	6588.6	6181.1	6176.1	6508.3	6836.5	7248.1	7650.6	6996.1	6809.4
40°	7237.0	6920.8	6618.7	6591.6	7002.2	7261.1	7479.9	8125.3	7454.8	7214.9
42.5°	7551.2	7319.3	7195.8	7303.2	7697.8	7737.9	7841.2	8564.0	7845.3	7566.2
45°	7842.2	7831.2	8002.9	8288.0	8517.8	8276.9	8218.7	8858.1	8148.4	7845.3
47.5°	8188.6	8487.7	9005.6	9423.2	9664.1	8904.3	8540.9	9049.7	8369.2	8090.2
50°	8539.9	9273.6	10100.7	10682.9	10734.1	9585.8	8762.7	9230.5	8570.0	8279.9
52.5°	8909.2	9900.9	11002.0	11678.6	11579.2	10179.0	8977.5	9352.9	8776.8	8521.8
55°	9230.5	10285.4	11506.0	12155.4	12009.8	10540.3	9209.4	9485.4	9071.9	8857.1
57.5°	9410.1	10317.5	11380.5	11947.6	11790.0	10470.1	9315.8	9583.8	9260.6	9092.0
58°	9436.2	10274.3	11269.1	11827.2	11666.5	10410.8	9314.7	9579.7	9272.6	9103.0
60°	9413.1	9994.3	10854.5	11351.4	11182.8	10039.4	9276.7	9504.5	9120.1	8976.5
62.5°	9199.4	9508.5	10138.8	10500.2	10452.0	9459.3	9120.1	9220.4	8655.3	8516.8
65°	8918.3	8846.1	9222.4	9478.4	9514.5	9024.7	8964.5	8606.1	8059.1	7863.4
67.5°	8577.0	8095.2	8094.2	8239.8	8300.0	8356.2	8640.3	7938.6	7199.9	6993.1
70°	7997.8	6937.9	6618.7	6790.3	6740.2	7214.9	8061.1	7001.2	6164.0	5922.1
72.5°	6935.9	5505.5	4994.6	5215.5	5089.0	5658.1	7053.3	5761.5	5097.0	4799.9
75°	5622.0	4118.4	3591.4	3794.2	3715.9	4292.0	5868.9	4184.6	3655.7	3542.2
77.5°	4365.3	2984.1	2678.0	2649.9	2708.1	3193.9	4305.1	2825.5	2410.0	2332.7
80°	2804.5	2136.0	2154.1	2117.9	2148.0	2013.5	2613.7	1802.8	1632.1	1569.9
82.5°	1845.9	1488.6	1774.6	1638.1	1555.8	1354.1	1714.4	1180.4	1001.7	967.6
85°	1257.7	1096.1	997.8	762.9	898.4	1042.9	1285.8	635.4	503.8	456.7
87.5°	568.1	381.4	280.1	172.7	273.0	315.2	624.4	74.3	57.2	59.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)