

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: P646730

Luminaire Tested: **GALN-SA1C-835-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4148.3 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

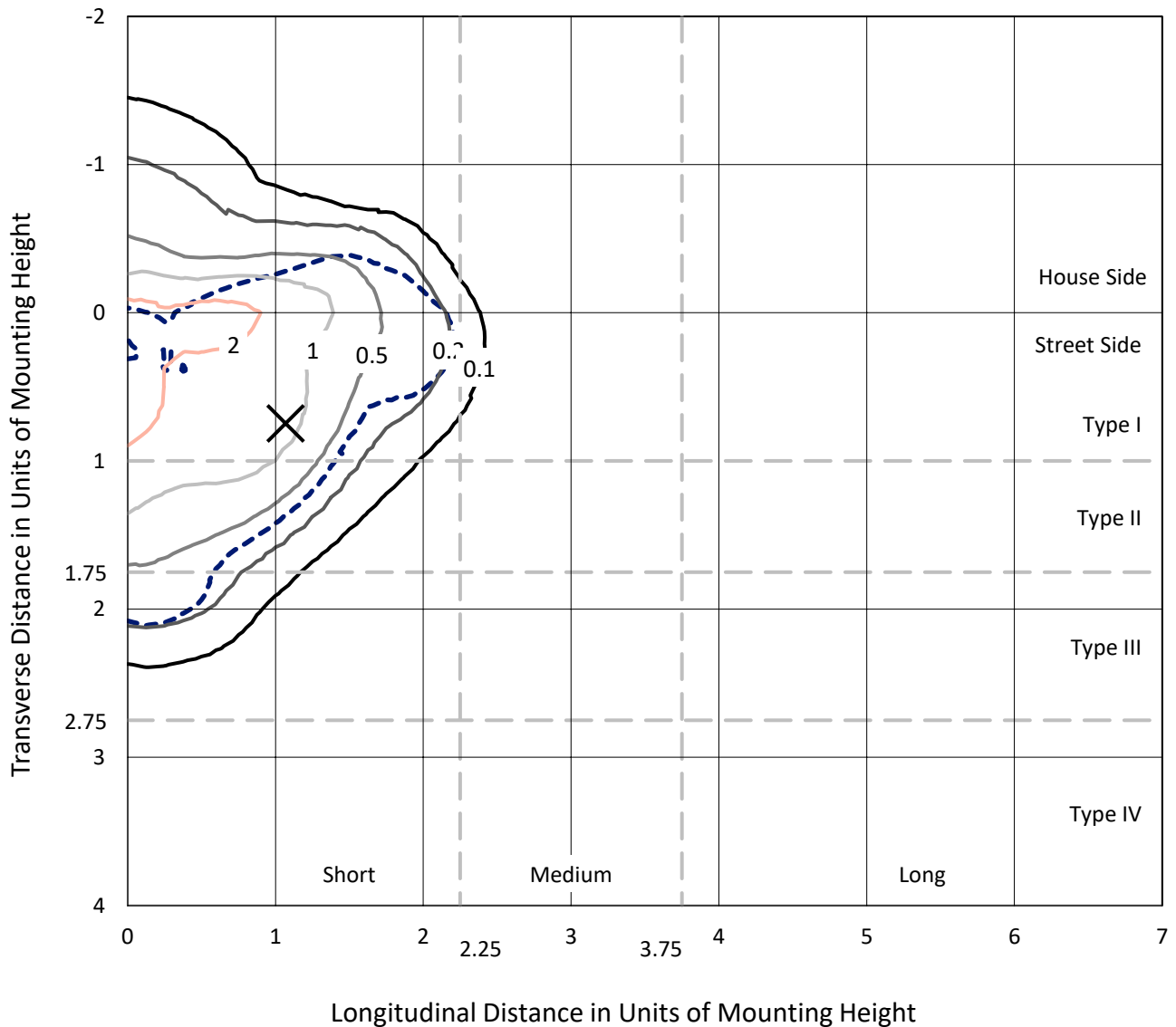
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

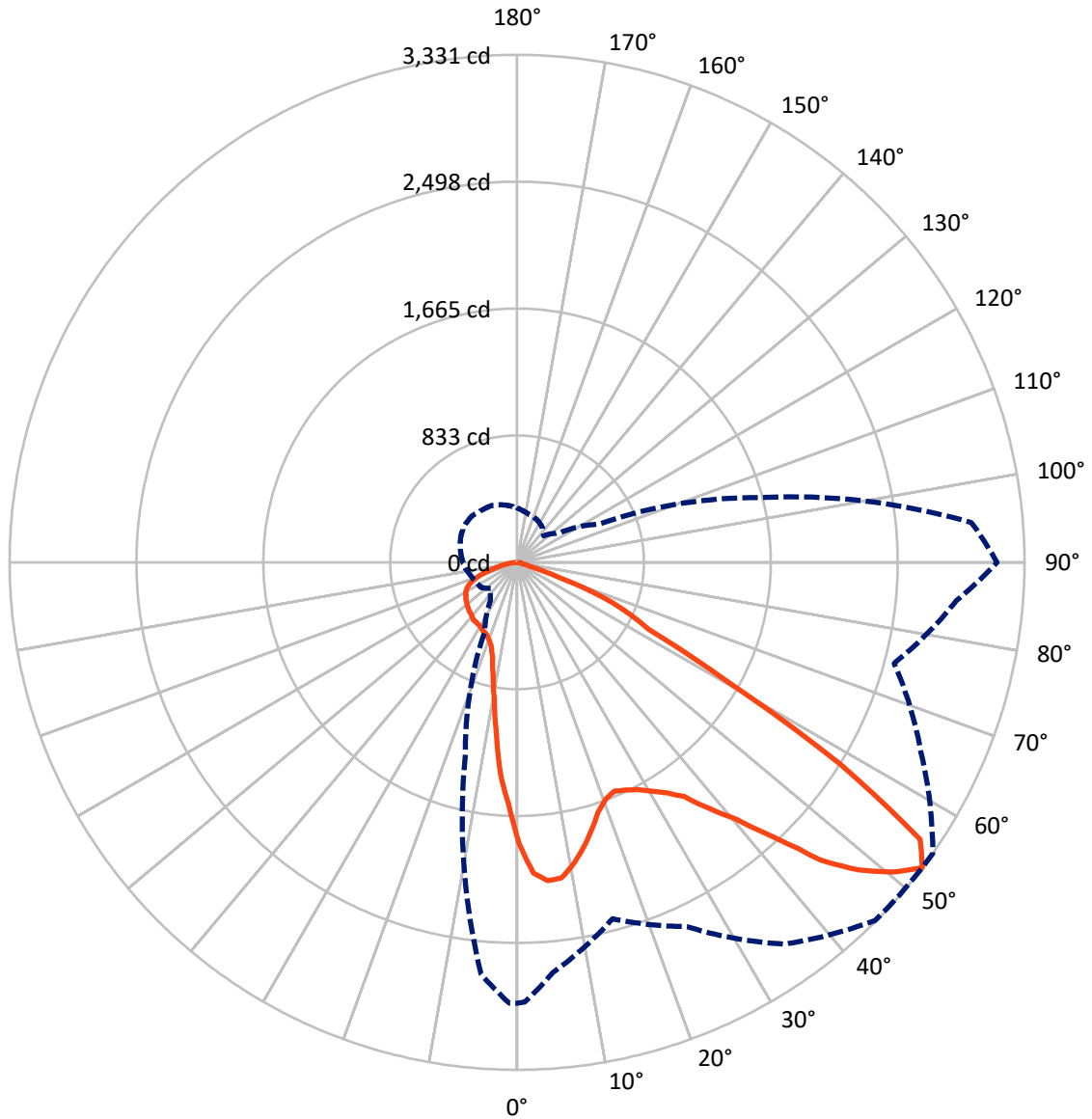
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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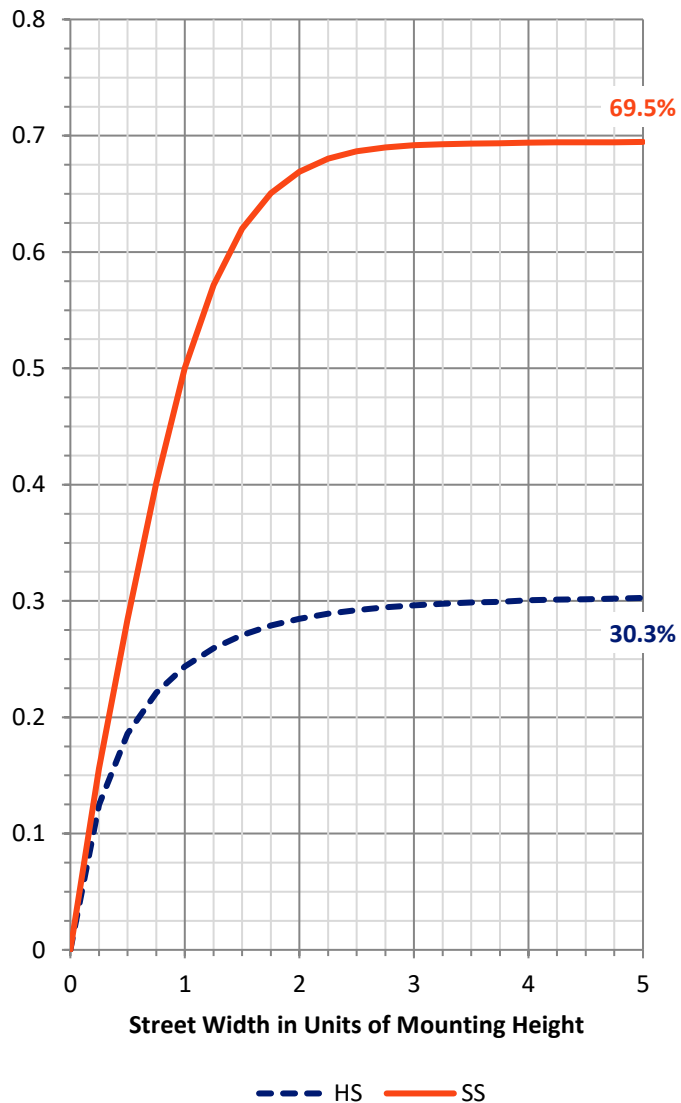
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1265.5	0.0	1265.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	2882.9	0.0	2882.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	4148.3	0.0	4148.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	3.4
10°-20°	304.8	7.3
20°-30°	462.2	11.1
30°-40°	667.8	16.1
40°-50°	892.4	21.5
50°-60°	996.1	24.0
60°-70°	546.4	13.2
70°-80°	118.1	2.8
80°-90°	19.1	0.5
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°	4148.3	100.0
0°-180°	4148.3	100.0

Coefficient of Utilization



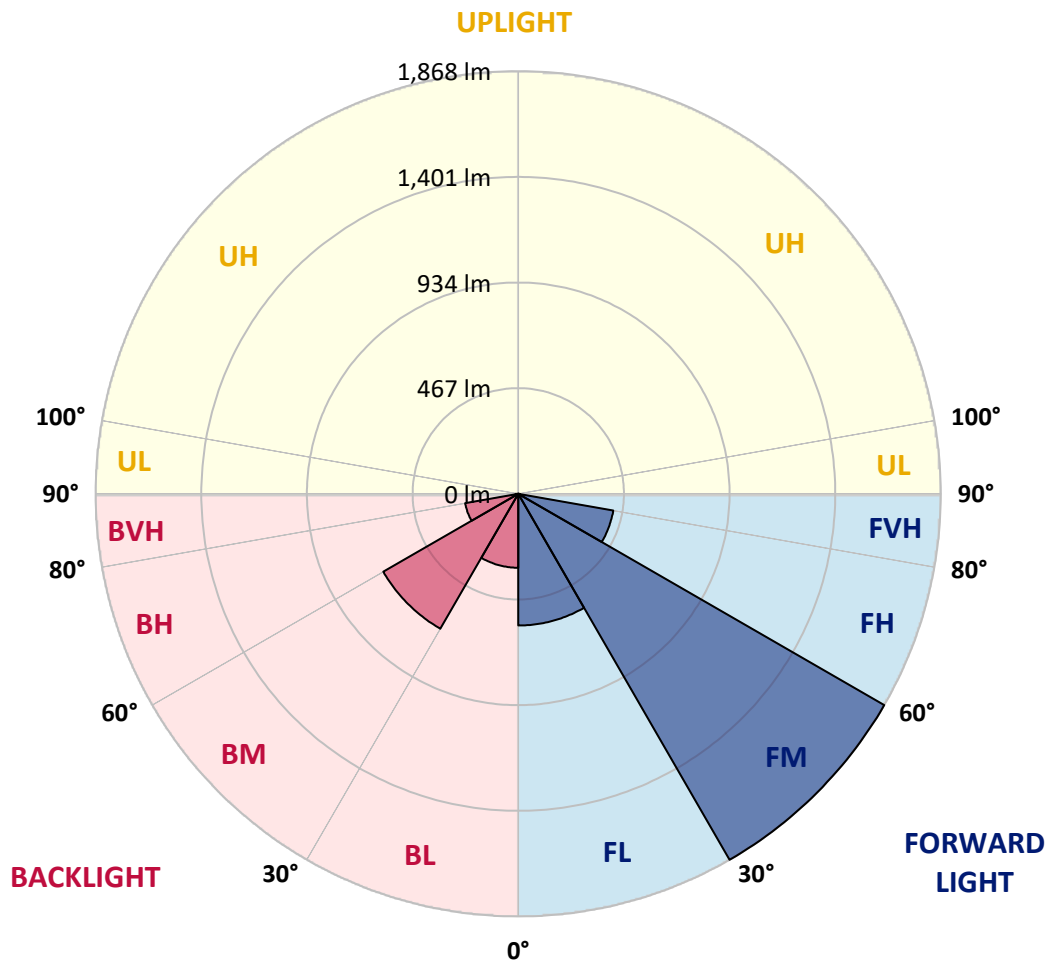
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.7	14.0			
FM (30°-60°)	1867.8	45.0			
FH (60°-80°)	426.3	10.3			G0/660
FVH (80°-90°)	7.1	0.2			G0/10
BL (0°-30°)	326.7	7.9	B1/500		
BM (30°-60°)	688.5	16.6	B1/1000		
BH (60°-80°)	238.2	5.7	B1/500		G1/500
BVH (80°-90°)	12.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5
2.5°	1941.9	1931.0	1940.7	1986.8	2013.4	2031.6	2043.1	2041.3	1997.7	1955.2	1955.2
5°	1885.0	1871.1	1891.0	1995.2	2100.0	2109.1	2124.3	2099.5	2035.3	1957.7	1860.8
7.5°	1720.3	1730.5	1763.9	1900.7	2037.1	2105.5	2123.7	2092.2	1988.0	1843.2	1700.8
10°	1577.9	1602.1	1679.1	1826.8	1952.3	2041.3	2061.2	2017.1	1934.6	1757.2	1630.0
12.5°	1528.8	1513.7	1599.1	1746.9	1866.8	1914.7	1923.8	1926.8	1871.1	1713.6	1558.5
15°	1522.8	1532.5	1599.1	1711.2	1785.1	1787.5	1802.6	1826.3	1833.6	1743.3	1591.8
17.5°	1610.0	1598.5	1666.9	1756.0	1720.9	1685.7	1689.3	1723.3	1783.2	1768.7	1696.6
20°	1739.0	1765.0	1819.0	1809.9	1715.4	1626.4	1627.0	1659.1	1777.2	1874.1	1842.6
22.5°	1953.4	1978.9	2018.9	1909.3	1715.4	1608.8	1588.2	1631.9	1815.9	1999.5	2007.4
25°	2149.1	2195.8	2206.7	2077.6	1801.4	1625.1	1611.8	1654.8	1854.7	2121.9	2196.3
27.5°	2327.2	2344.1	2392.0	2186.1	1849.3	1636.1	1634.8	1689.9	1903.8	2183.0	2365.4
30°	2467.7	2465.9	2493.2	2254.5	1925.6	1697.2	1638.5	1742.6	1968.0	2284.2	2521.7
32.5°	2563.4	2584.0	2641.5	2349.6	1957.7	1755.4	1709.4	1804.4	2046.1	2332.0	2631.8
35°	2731.8	2767.5	2694.9	2402.3	2059.4	1813.0	1759.0	1888.7	2084.9	2384.2	2767.0
37.5°	2890.5	2863.3	2789.4	2430.7	2125.5	1919.5	1869.3	2051.5	2205.4	2497.4	2856.6
40°	2992.2	2991.7	2860.2	2453.8	2172.1	2082.5	2079.4	2216.9	2353.2	2568.9	2957.2
42.5°	3036.5	3078.9	2889.3	2451.3	2270.2	2279.9	2341.1	2464.1	2458.0	2583.4	2954.7
44°	3097.1	3122.5	2939.5	2456.8	2335.7	2413.2	2557.4	2635.5	2549.4	2575.5	2951.7
45°	3094.7	3096.5	2868.1	2464.1	2391.4	2524.6	2653.7	2785.7	2630.0	2558.5	2991.7
47.5°	3023.8	3003.2	2807.5	2410.2	2565.3	2819.0	2938.4	3018.3	2729.4	2522.2	2942.0
50°	2883.9	2860.2	2660.3	2387.1	2601.6	3001.9	3166.7	3195.8	2819.7	2486.5	2893.0
52.5°	2893.5	2886.8	2702.1	2421.7	2637.9	3059.5	3323.6	3330.9	2922.0	2561.6	2893.5
55°	3066.8	3043.8	2822.1	2464.6	2611.2	2992.2	3223.6	3210.9	2887.5	2516.2	2946.8
57.5°	2806.3	2821.5	2656.1	2294.5	2285.4	2432.5	2534.3	2502.9	2409.5	2270.9	2741.5
60°	2264.2	2307.2	2322.9	1918.9	1724.5	1648.8	1618.5	1562.8	1578.5	1865.7	2408.4
62.5°	1941.9	1939.5	2038.2	1739.7	1129.6	971.5	957.1	969.7	1151.5	1836.5	2358.7
65°	1539.8	1581.0	1611.2	1474.3	894.0	721.4	720.8	801.4	996.4	1534.9	1904.4
67.5°	977.7	1031.5	1069.1	943.1	597.8	513.6	499.7	596.6	690.5	1006.7	1146.6
70°	551.2	576.7	593.6	544.0	380.4	266.5	250.8	273.8	417.3	651.8	679.6
72.5°	212.6	224.1	247.1	248.9	143.5	86.0	69.7	83.6	175.6	258.0	245.9
75°	32.7	35.2	49.6	59.4	41.2	31.5	33.3	34.5	49.1	66.6	55.7
77.5°	15.7	15.7	15.1	17.5	20.6	22.4	24.2	26.6	29.0	32.1	30.9
80°	10.3	10.3	10.3	12.1	15.1	18.2	20.6	21.8	23.0	25.4	24.2
82.5°	6.7	6.7	6.7	9.1	12.1	15.1	16.4	19.4	21.8	25.4	23.6
85°	3.6	3.6	3.6	6.0	9.1	12.7	12.1	9.7	5.5	0.6	1.2
87.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5
2.5°	1904.4	1876.5	1874.1	1817.2	1766.3	1741.5	1721.4	1665.8	1677.8	1645.7	1645.2
5°	1812.3	1755.4	1663.3	1587.6	1511.9	1496.7	1430.7	1373.1	1374.9	1333.8	1341.0
7.5°	1647.0	1607.6	1495.5	1376.8	1276.3	1204.8	1142.4	1104.8	1057.0	1040.6	1032.2
10°	1542.2	1493.7	1367.7	1218.7	1106.1	1067.9	1008.0	974.6	925.5	901.3	884.3
12.5°	1496.2	1425.3	1267.8	1116.3	1041.2	1001.8	951.0	890.4	832.3	809.9	778.9
15°	1501.0	1416.2	1238.7	1075.1	984.9	908.6	863.2	795.9	736.6	697.2	674.8
17.5°	1574.3	1471.3	1252.0	1043.7	914.0	818.3	729.3	656.6	609.3	579.7	572.4
20°	1747.5	1607.6	1274.4	992.8	843.1	723.8	614.2	538.5	502.1	501.5	502.1
22.5°	1891.6	1753.0	1319.9	962.5	772.3	602.7	493.7	469.4	462.1	477.3	479.1
25°	2086.1	1916.5	1398.0	946.7	706.9	513.6	446.4	437.3	436.8	456.1	456.7
27.5°	2285.4	2059.4	1444.6	900.7	640.3	467.6	418.0	416.2	425.8	446.4	444.6
30°	2421.0	2179.4	1528.8	845.6	561.5	427.0	406.5	408.9	422.2	437.9	440.4
32.5°	2579.1	2297.5	1550.7	815.3	513.0	393.1	378.6	384.1	401.0	425.8	439.2
35°	2760.3	2381.1	1583.9	774.1	494.9	367.1	359.8	365.8	386.5	402.8	417.3
37.5°	2894.1	2528.9	1590.0	742.0	474.9	352.5	341.0	361.0	373.1	396.1	403.4
40°	2993.5	2636.1	1605.8	722.0	459.2	333.7	333.7	347.1	363.5	384.6	399.2
42.5°	3057.1	2714.3	1617.3	703.8	428.8	328.3	325.3	338.6	360.4	381.0	387.7
44°	3095.8	2747.5	1605.8	686.9	420.4	321.7	321.7	333.2	350.1	374.4	382.2
45°	3105.5	2789.4	1580.3	686.3	410.1	313.7	312.6	334.3	345.9	375.5	380.4
47.5°	3143.1	2840.8	1583.4	666.9	385.2	295.0	316.2	325.9	336.1	362.2	378.6
50°	3141.9	2872.9	1576.7	638.5	367.1	273.8	308.9	319.9	330.1	356.7	363.5
52.5°	3150.3	2992.9	1637.9	593.0	334.3	246.6	284.7	308.9	321.7	344.1	358.0
55°	3146.1	3061.3	1698.4	559.1	288.3	230.2	264.1	292.5	310.8	334.3	341.0
57.5°	2873.5	2705.7	1571.9	495.5	238.7	210.8	235.1	275.6	298.6	322.8	331.4
60°	2347.7	2085.5	1296.3	364.6	196.2	193.8	218.7	270.1	279.8	301.1	315.5
62.5°	2169.7	1829.2	1027.9	278.7	167.8	177.5	201.7	244.1	259.3	285.3	298.6
65°	1697.9	1215.1	636.6	188.4	147.8	159.3	182.4	213.8	238.7	262.9	278.7
67.5°	1005.5	663.9	315.0	132.0	129.0	141.1	164.7	188.4	216.8	243.5	251.3
70°	547.6	326.5	134.4	100.5	109.6	120.5	143.5	159.9	187.1	207.7	221.1
72.5°	175.6	99.4	67.3	74.5	83.6	96.3	110.2	130.2	149.6	161.7	172.7
75°	42.4	41.8	47.8	52.1	60.6	70.2	81.7	92.1	107.2	118.7	128.4
77.5°	29.7	32.1	37.0	43.0	46.0	49.6	56.9	64.8	71.5	79.9	86.0
80°	23.0	24.8	28.5	31.5	34.5	37.6	41.2	44.2	48.5	53.9	56.9
82.5°	21.8	23.0	26.6	28.5	27.2	26.6	29.0	30.3	30.9	32.7	34.5
85°	1.8	0.0	1.2	4.2	10.3	15.1	16.4	16.4	15.7	17.0	17.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.4	1.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5
2.5°	1637.9	1617.3	1625.1	1634.8	1620.9	1588.8	1597.3	1593.6	1626.4	1623.9	1656.7
5°	1373.1	1341.0	1344.7	1391.9	1376.8	1393.2	1360.5	1356.2	1362.3	1365.3	1370.7
7.5°	1050.9	1046.7	1083.0	1123.0	1141.8	1122.4	1090.3	1083.0	1076.4	1063.1	1093.3
10°	857.7	859.0	856.5	886.7	908.0	903.7	884.3	881.9	869.2	864.4	881.3
12.5°	765.6	749.3	741.4	731.7	748.1	759.0	750.5	744.4	745.0	751.1	753.5
15°	676.6	666.3	649.3	638.5	646.3	640.9	637.8	650.0	646.9	645.7	660.2
17.5°	576.7	585.1	583.9	571.8	582.1	577.9	577.2	568.8	557.3	548.8	553.7
20°	510.6	526.3	538.5	539.1	544.6	544.0	534.9	508.8	500.3	498.5	499.7
22.5°	487.0	495.5	510.0	530.6	530.6	520.9	510.0	479.7	471.8	463.4	459.8
25°	468.2	484.6	503.4	505.7	515.4	506.4	488.8	473.6	457.4	445.8	445.8
27.5°	458.5	476.7	490.6	494.9	508.2	501.0	482.8	463.4	444.0	443.4	433.1
30°	454.3	471.3	480.4	490.6	496.7	485.1	479.7	459.2	439.7	434.9	418.0
32.5°	441.5	465.8	482.8	480.4	485.1	480.4	472.5	455.5	433.7	422.8	420.9
35°	427.0	451.2	469.4	482.2	485.1	474.9	470.0	447.0	417.3	411.9	393.1
37.5°	419.1	433.7	456.1	476.7	480.9	475.5	459.2	435.5	405.8	399.8	383.4
40°	409.4	428.2	445.8	462.8	475.5	462.1	443.4	420.4	407.1	388.8	384.1
42.5°	402.2	423.4	437.9	456.7	471.3	453.7	431.9	416.2	397.4	385.2	371.3
44°	399.8	419.1	428.8	451.9	464.0	450.7	432.5	416.2	394.3	383.4	371.3
45°	391.3	418.0	428.2	448.8	459.2	448.3	425.2	408.9	393.1	379.8	367.1
47.5°	382.8	401.0	418.6	434.9	442.2	438.6	419.1	399.2	380.4	372.6	360.4
50°	380.4	398.5	414.9	430.0	438.6	431.3	413.7	394.3	372.6	359.8	349.5
52.5°	368.2	390.7	408.9	413.7	424.6	420.4	407.1	385.9	365.3	354.4	345.9
55°	350.7	374.4	399.2	405.2	420.9	414.3	394.3	374.4	356.7	340.4	329.5
57.5°	344.1	367.1	391.3	399.2	408.9	397.9	393.1	371.9	344.1	335.6	318.6
60°	327.1	356.2	376.2	394.3	394.9	391.9	383.4	359.2	336.1	320.4	308.3
62.5°	313.7	341.0	356.7	373.7	384.1	375.5	367.1	344.7	319.9	302.2	288.3
65°	294.4	319.2	332.5	342.9	354.4	353.1	338.6	322.2	296.2	282.3	269.0
67.5°	264.7	286.5	304.7	314.4	321.7	319.9	308.9	297.4	270.8	256.8	247.1
70°	228.9	251.3	262.9	268.3	275.6	279.2	270.8	265.3	241.7	223.5	214.5
72.5°	184.2	198.6	215.6	220.5	223.5	225.9	225.9	221.1	196.8	189.6	173.8
75°	135.7	147.2	159.9	159.9	165.4	166.0	167.2	164.1	146.0	136.3	132.6
77.5°	92.1	100.5	110.9	115.1	118.7	118.2	117.5	109.0	99.4	95.1	91.5
80°	60.0	68.4	73.3	78.8	82.4	81.7	83.0	76.9	72.7	65.4	66.6
82.5°	35.7	42.4	47.2	53.9	53.9	55.7	55.7	53.9	49.6	46.0	46.0
85°	17.0	22.4	25.4	29.7	32.1	32.7	29.0	24.8	20.6	18.8	20.6
87.5°	3.1	4.2	6.0	5.5	6.7	6.0	6.0	6.0	6.0	4.9	5.5
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: P646730

CATALOG NUMBER: GALN-SA1C-835-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5
2.5°	1644.5	1674.8	1696.1	1731.1	1791.7	1840.2	1889.8	1926.8	1931.0	1941.9
5°	1390.8	1407.1	1461.0	1531.2	1581.0	1662.7	1715.4	1811.1	1846.9	1885.0
7.5°	1086.0	1112.7	1184.8	1232.1	1341.0	1443.5	1549.4	1667.6	1714.8	1720.3
10°	915.9	954.6	1003.6	1079.4	1138.7	1252.6	1384.7	1516.1	1568.8	1577.9
12.5°	804.4	854.1	919.5	974.0	1031.0	1130.3	1256.9	1419.2	1487.6	1528.8
15°	697.2	748.7	820.7	896.5	946.7	1065.4	1214.4	1397.4	1486.4	1522.8
17.5°	586.9	634.8	694.1	776.0	877.1	1010.3	1207.8	1470.1	1567.6	1610.0
20°	492.4	519.1	588.2	672.4	799.0	954.0	1210.2	1577.3	1720.3	1739.0
22.5°	455.5	461.6	488.8	566.3	705.1	896.5	1253.3	1729.3	1891.6	1953.4
25°	427.0	425.8	433.1	485.1	636.6	874.1	1295.6	1869.3	2081.8	2149.1
27.5°	411.3	399.2	399.8	448.8	588.2	837.7	1350.1	2029.8	2297.5	2327.2
30°	403.4	401.0	393.7	413.7	535.5	783.2	1359.2	2187.9	2424.7	2467.7
32.5°	398.5	375.0	365.8	373.1	485.8	723.8	1393.2	2292.1	2582.2	2563.4
35°	374.4	353.1	347.1	354.4	450.7	690.5	1370.7	2382.9	2700.3	2731.8
37.5°	365.3	346.5	334.3	328.3	418.0	662.7	1359.2	2522.8	2814.8	2890.5
40°	356.7	336.8	322.2	316.2	392.5	625.7	1355.6	2630.6	2946.8	2992.2
42.5°	347.1	334.3	318.0	307.1	361.6	588.7	1313.8	2663.9	2987.4	3036.5
44°	344.1	324.6	307.7	304.0	349.5	569.9	1305.3	2694.2	3022.5	3097.1
45°	341.0	322.8	303.5	298.6	345.2	559.7	1293.8	2701.5	3080.7	3094.7
47.5°	332.5	321.0	302.2	288.9	336.1	537.3	1259.3	2660.3	3021.4	3023.8
50°	325.9	312.6	293.2	267.2	324.1	518.5	1275.0	2645.2	2878.4	2883.9
52.5°	318.6	298.6	287.8	242.9	304.0	502.8	1308.4	2713.6	2894.8	2893.5
55°	310.1	288.3	261.7	222.3	270.8	482.8	1388.9	2848.7	3046.2	3066.8
57.5°	296.8	278.0	239.8	204.1	232.6	444.6	1362.9	2590.1	2802.7	2806.3
60°	279.2	261.7	217.4	190.2	190.8	350.7	1218.7	2018.3	2211.5	2264.2
62.5°	262.3	252.6	198.6	170.2	162.3	279.2	1030.3	1677.3	1898.3	1941.9
65°	242.3	218.7	182.4	155.0	139.3	195.7	729.9	1253.3	1481.0	1539.8
67.5°	216.8	191.4	160.5	136.3	119.3	130.8	376.8	712.3	943.1	977.7
70°	189.6	166.0	135.1	115.1	96.3	90.3	166.0	339.8	515.4	551.2
72.5°	155.7	133.9	107.8	90.8	72.1	62.4	55.7	90.8	182.9	212.6
75°	112.7	97.5	81.2	64.8	50.9	40.0	32.7	27.2	30.3	32.7
77.5°	83.0	70.9	60.0	46.0	35.7	28.5	22.4	17.0	16.4	15.7
80°	64.8	57.6	47.8	37.0	27.9	21.2	15.7	11.5	10.3	10.3
82.5°	50.9	47.2	39.4	30.3	23.0	17.0	11.5	7.9	6.7	6.7
85°	19.4	19.4	28.5	24.8	17.5	12.1	7.9	4.2	3.6	3.6
87.5°	4.9	4.9	4.9	4.9	4.2	3.6	3.6	1.8	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)