

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: P648216

Luminaire Tested: **GALN-SA1B-835-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-835-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3237.7 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

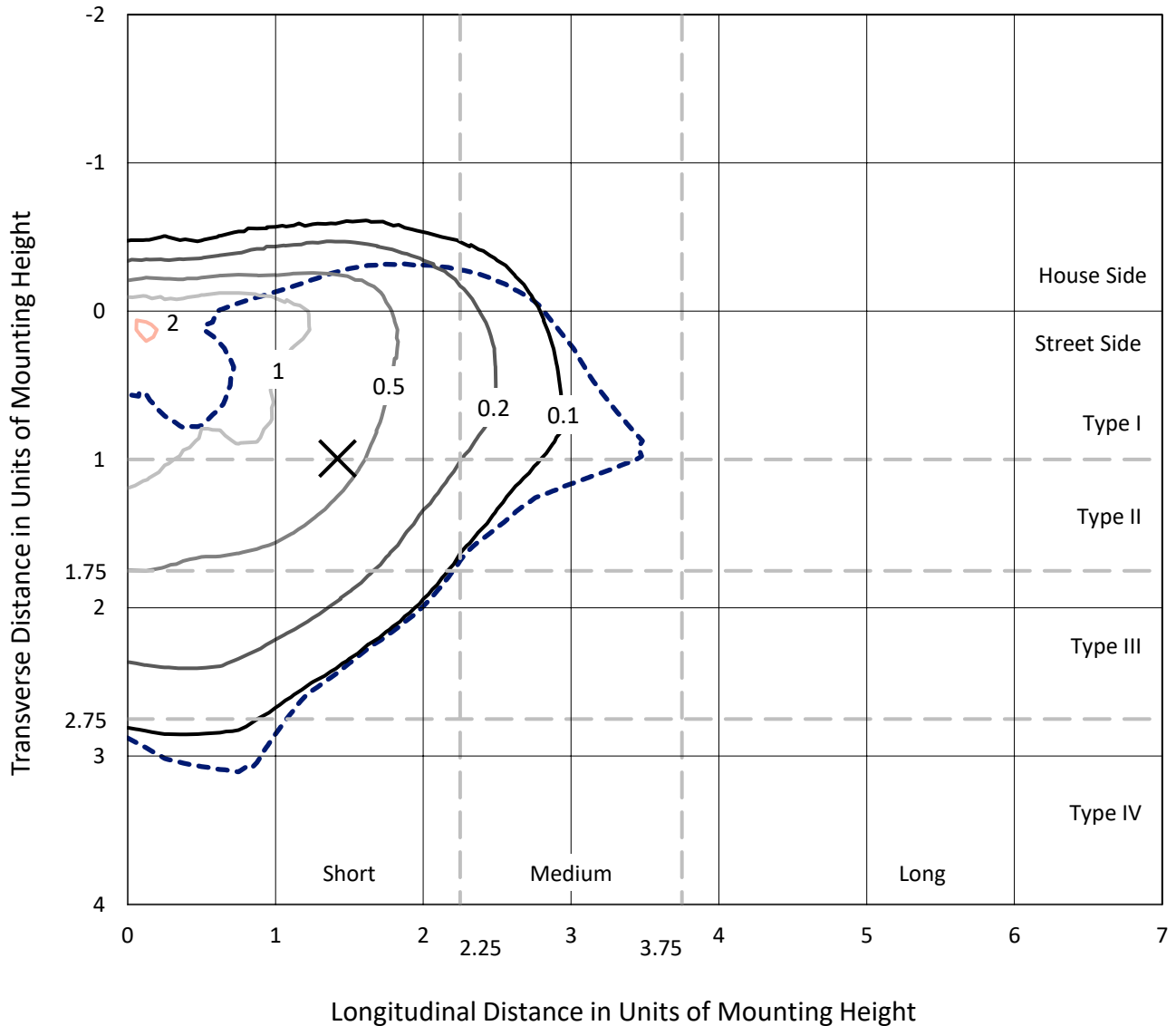
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

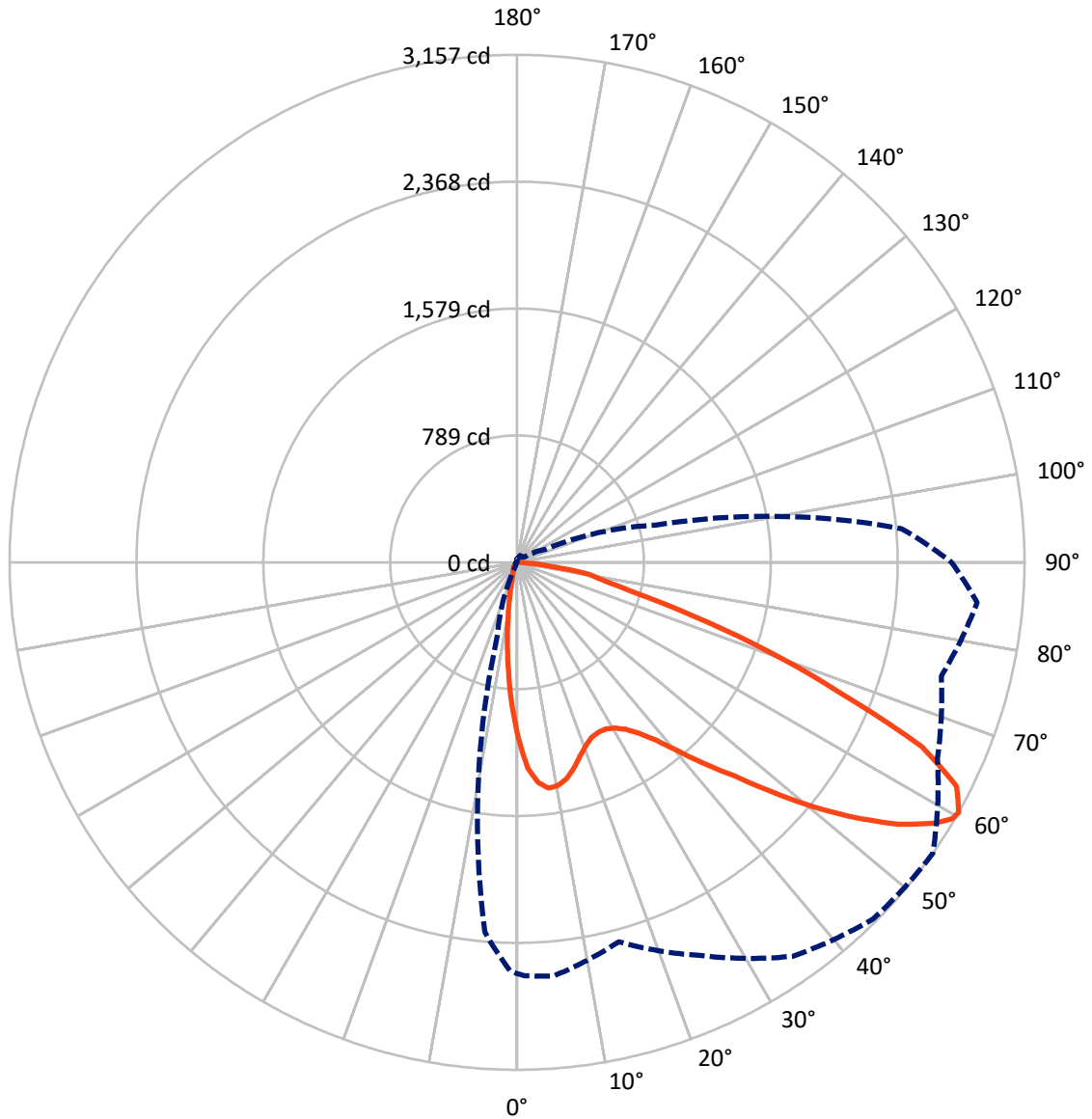
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical



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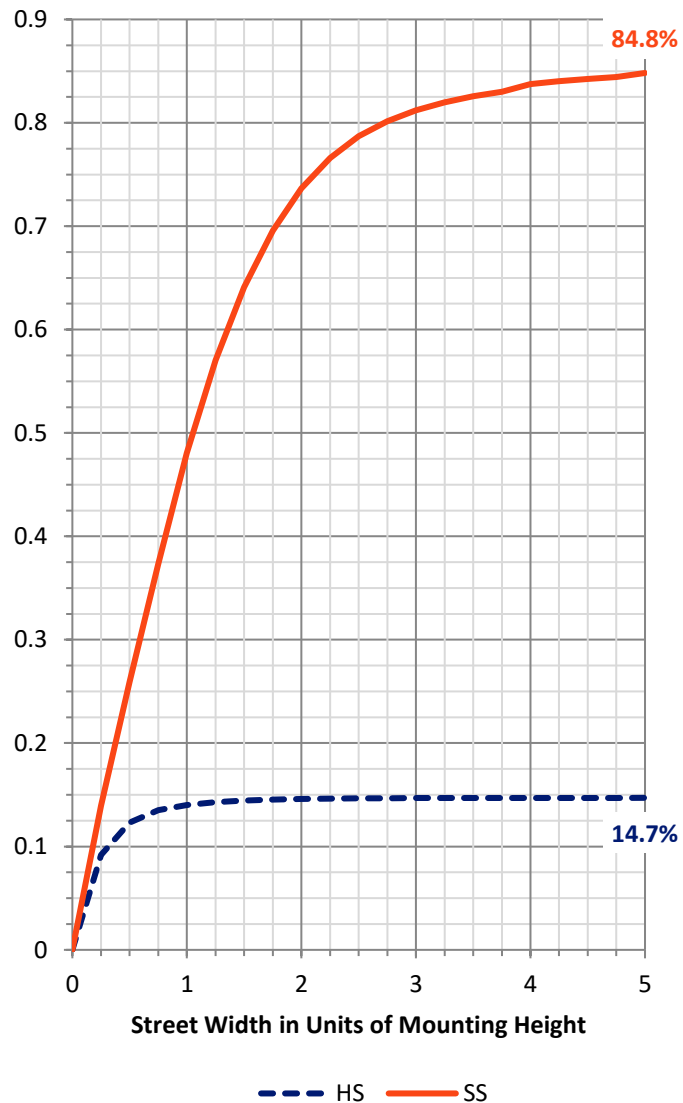
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	480.5	0.0	480.5
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	2757.2	0.0	2757.2
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	3237.7	0.0	3237.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.2	2.5
10°-20°	159.9	4.9
20°-30°	236.6	7.3
30°-40°	352.7	10.9
40°-50°	516.6	16.0
50°-60°	745.8	23.0
60°-70°	784.5	24.2
70°-80°	322.7	10.0
80°-90°	37.8	1.2
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°	3237.7	100.0
0°-180°	3237.7	100.0

**Coefficient of Utilization**

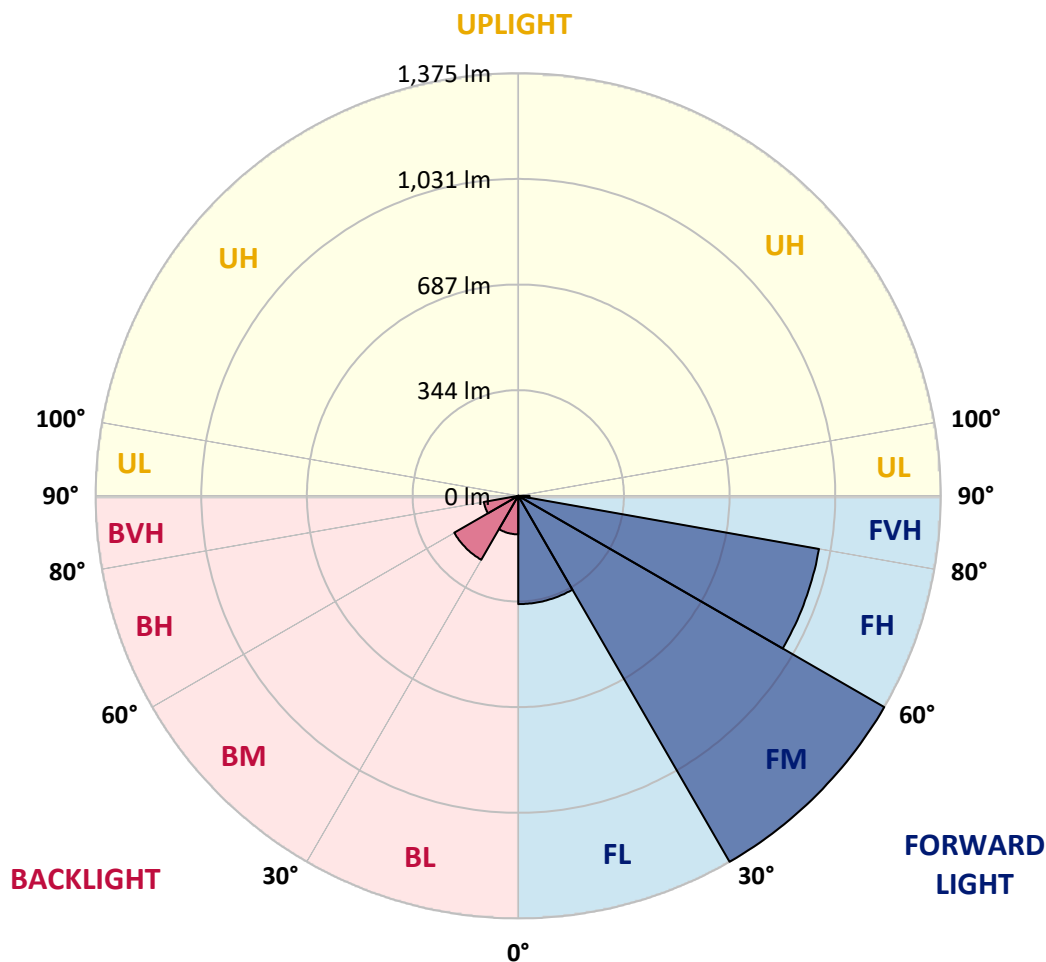


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	352.3	10.9			
FM (30°-60°)	1374.7	42.5			
FH (60°-80°)	993.5	30.7			G1/1800
FVH (80°-90°)	36.7	1.1			G1/100
BL (0°-30°)	125.4	3.9	B1/500		
BM (30°-60°)	240.3	7.4	B1/1000		
BH (60°-80°)	113.7	3.5	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3
2.5°	1197.7	1195.7	1213.4	1242.3	1271.4	1286.7	1283.7	1282.5	1258.3	1240.6	1203.5
5°	1195.2	1205.4	1237.1	1315.4	1374.6	1403.3	1411.7	1376.1	1329.1	1260.8	1176.5
7.5°	1123.7	1136.4	1188.0	1310.4	1415.7	1478.1	1475.8	1418.7	1321.5	1215.9	1095.8
10°	1035.0	1049.9	1110.5	1259.0	1395.9	1478.1	1482.5	1410.3	1289.4	1153.8	1027.5
12.5°	972.4	990.1	1057.1	1211.1	1344.5	1425.5	1430.7	1378.4	1265.2	1129.9	990.3
15°	951.3	967.9	1036.0	1187.0	1289.9	1333.5	1332.3	1326.8	1255.8	1135.7	992.4
17.5°	987.6	1001.3	1078.1	1198.0	1238.9	1234.3	1240.8	1267.2	1257.7	1183.7	1055.2
20°	1081.6	1095.5	1178.0	1231.6	1199.7	1171.3	1174.3	1218.4	1276.2	1274.2	1153.4
22.5°	1210.9	1234.6	1309.3	1296.9	1194.5	1132.1	1126.0	1183.3	1307.6	1378.4	1285.9
25°	1374.6	1398.6	1456.8	1401.1	1220.1	1123.0	1117.2	1172.5	1345.7	1480.0	1435.2
27.5°	1512.2	1530.4	1588.5	1502.5	1258.0	1126.9	1117.5	1174.0	1376.7	1566.5	1561.1
30°	1622.4	1635.8	1670.0	1549.9	1290.7	1144.4	1133.4	1196.0	1390.4	1608.7	1663.0
32.5°	1711.1	1733.8	1744.4	1600.5	1337.5	1177.2	1158.6	1238.1	1423.7	1660.7	1769.9
35°	1812.5	1838.6	1824.9	1648.8	1399.3	1228.6	1205.7	1306.4	1474.3	1708.8	1894.0
37.5°	1941.1	1971.3	1917.6	1699.6	1464.6	1305.9	1295.2	1402.3	1551.1	1777.6	2027.1
40°	2074.2	2091.6	2007.6	1761.4	1544.9	1418.2	1428.5	1544.9	1651.5	1860.1	2168.6
42.5°	2178.1	2194.5	2100.1	1813.3	1626.8	1551.6	1594.2	1716.8	1766.7	1944.6	2274.3
45°	2257.6	2271.6	2164.1	1869.8	1737.5	1744.8	1825.3	1894.0	1882.0	1996.2	2355.8
47.5°	2319.4	2331.4	2213.5	1930.6	1903.2	1981.0	2104.1	2133.2	2001.7	2052.0	2429.6
50°	2344.9	2348.3	2229.0	2008.2	2091.4	2282.1	2410.4	2392.7	2138.8	2114.0	2508.0
52.5°	2378.0	2377.2	2273.0	2081.9	2268.4	2551.2	2679.3	2639.2	2293.7	2207.0	2596.3
55°	2465.0	2465.9	2367.5	2186.6	2419.1	2768.5	2905.6	2876.4	2457.2	2364.0	2699.2
57.5°	2570.6	2574.3	2501.8	2308.9	2563.2	2926.0	3074.5	3063.3	2678.3	2538.7	2796.4
59°	2584.3	2591.8	2565.3	2395.2	2648.6	2974.3	3132.3	3143.3	2796.6	2653.8	2848.9
60°	2559.4	2571.8	2583.8	2444.0	2698.7	2991.8	3135.8	3157.2	2885.6	2732.1	2872.9
62.5°	2450.7	2470.4	2530.5	2594.3	2761.2	2937.4	3024.4	3069.3	2995.8	2937.7	2875.2
65°	2308.4	2318.6	2405.4	2620.9	2639.9	2683.7	2710.7	2768.2	2863.4	3017.0	2772.2
67.5°	2075.2	2105.3	2211.5	2466.2	2281.7	2229.9	2223.2	2165.9	2413.1	2828.0	2518.5
70°	1714.3	1727.8	1858.6	2021.9	1722.1	1642.3	1674.2	1652.8	1870.6	2434.5	2027.1
72.5°	1296.4	1326.8	1454.7	1611.6	1171.8	1068.4	1156.3	1148.3	1405.0	1956.6	1392.6
75°	922.3	942.0	1105.0	1261.3	820.7	695.3	726.9	756.6	980.9	1544.9	822.9
77.5°	633.8	650.7	773.1	834.1	598.6	573.5	524.6	553.3	642.7	916.6	447.8
80°	382.3	381.6	462.0	477.0	416.9	484.2	406.2	456.0	388.5	392.3	173.4
82.5°	248.2	245.7	282.6	308.0	232.0	244.0	163.7	236.0	253.2	109.4	54.8
85°	111.2	115.9	135.9	179.2	101.7	54.1	33.4	72.5	107.9	55.0	0.0
87.5°	11.4	9.0	24.0	43.6	13.9	1.5	5.0	2.5	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



REPORT NUMBER: P648216

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3
2.5°	1186.2	1171.8	1128.7	1088.3	1053.7	1011.3	983.9	940.8	914.6	906.6	907.9
5°	1138.6	1097.1	1015.0	949.5	876.5	834.8	771.6	710.7	677.8	665.6	660.1
7.5°	1039.0	994.3	895.4	792.5	714.3	641.2	594.1	540.5	503.9	473.7	468.5
10°	965.0	906.4	783.8	673.1	611.3	556.5	509.4	455.8	412.7	378.3	368.8
12.5°	920.6	855.0	718.2	625.5	567.0	510.6	449.4	387.3	343.2	306.0	288.8
15°	912.6	836.6	699.8	591.4	519.1	451.1	369.6	302.6	257.2	222.1	211.3
17.5°	960.7	869.8	697.0	555.8	456.6	360.1	275.4	219.8	168.7	149.0	141.3
20°	1046.4	928.3	696.8	514.4	392.3	277.3	193.4	143.3	122.6	113.1	108.7
22.5°	1163.3	1008.0	710.0	478.7	325.5	204.6	138.0	114.2	102.2	94.4	92.7
25°	1306.1	1126.2	742.4	454.5	274.4	160.5	113.9	97.7	87.7	84.3	82.8
27.5°	1433.0	1239.3	778.1	429.6	237.7	142.0	105.6	89.5	81.5	78.8	76.5
30°	1542.4	1342.0	795.2	396.7	208.4	130.1	107.2	95.7	85.3	77.0	73.3
32.5°	1633.6	1420.8	806.4	366.8	183.5	106.4	84.7	74.0	69.3	66.3	63.8
35°	1747.7	1505.9	799.8	349.9	170.7	96.9	77.3	63.8	55.8	49.9	47.4
37.5°	1867.3	1591.2	788.0	335.9	165.0	90.0	73.5	60.5	51.8	45.6	42.4
40°	1991.2	1670.2	774.3	323.0	159.7	85.5	71.3	57.8	49.1	42.4	38.9
42.5°	2104.5	1747.2	768.8	314.5	151.3	86.2	69.5	56.5	46.4	39.4	36.4
45°	2196.3	1820.2	776.3	310.0	142.0	85.0	70.0	55.0	44.1	37.3	34.4
47.5°	2294.3	1923.4	800.5	305.5	133.1	79.0	73.8	54.8	43.1	36.2	32.9
50°	2408.1	2055.5	855.8	294.6	122.1	72.5	78.5	54.6	41.9	34.6	31.4
52.5°	2559.9	2205.5	912.8	275.4	106.2	66.3	75.0	53.8	39.4	32.9	29.7
55°	2696.2	2363.5	961.2	252.7	86.0	57.3	67.6	50.6	35.2	29.9	26.9
57.5°	2752.6	2452.7	959.7	221.3	68.7	50.3	55.6	46.4	30.6	26.4	24.0
59°	2731.9	2441.6	927.5	198.1	62.8	46.6	46.1	45.9	28.7	24.0	21.9
60°	2702.7	2400.7	892.9	186.7	59.0	44.1	42.4	45.3	26.9	22.4	20.4
62.5°	2591.0	2231.2	778.1	167.2	54.1	37.3	33.9	38.4	24.0	19.4	17.7
65°	2429.3	1970.7	658.7	161.8	52.6	30.9	28.2	27.4	20.4	16.4	15.0
67.5°	2113.8	1667.7	533.5	158.0	53.1	25.9	24.7	20.7	16.9	13.7	12.7
70°	1692.4	1300.4	436.8	153.8	53.6	21.2	20.7	16.4	13.7	11.4	10.5
72.5°	1028.2	770.8	343.9	133.6	52.1	16.9	18.5	12.4	9.9	8.2	7.8
75°	635.7	527.6	213.3	103.9	34.4	12.4	13.0	7.8	6.7	5.2	5.2
77.5°	368.3	333.2	76.3	37.3	15.2	7.4	5.7	4.0	3.8	2.3	2.3
80°	152.8	122.4	26.4	12.7	8.2	3.5	1.3	0.2	0.0	0.0	0.0
82.5°	44.6	39.6	7.2	5.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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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 CATALOG NUMBER: GALN-SA1B-835-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3
2.5°	886.7	878.4	874.8	887.5	875.7	890.7	879.2	884.2	898.9	905.4	922.1
5°	663.7	655.1	651.2	670.4	669.4	678.9	677.8	686.6	694.1	677.4	694.5
7.5°	462.3	456.6	466.0	481.0	496.9	491.7	491.7	480.0	484.0	481.5	480.8
10°	351.6	331.9	327.0	326.4	332.5	333.7	327.0	310.8	316.7	318.5	328.9
12.5°	276.6	261.4	238.3	227.8	225.0	227.3	205.1	190.9	197.6	193.6	203.9
15°	198.3	185.9	172.2	160.5	157.2	152.8	128.6	111.7	109.6	110.4	112.1
17.5°	141.6	133.1	133.1	120.6	113.9	100.5	88.2	80.7	80.0	80.7	82.0
20°	104.5	99.9	99.4	96.2	88.7	79.7	71.3	69.8	69.3	70.5	71.0
22.5°	90.0	85.3	81.3	81.0	74.0	66.6	62.6	60.5	60.8	61.3	62.6
25°	80.5	75.5	71.3	68.7	63.8	58.6	54.8	53.8	53.8	54.6	54.8
27.5°	73.8	67.6	63.8	60.3	55.8	51.4	48.1	47.4	46.8	47.4	48.6
30°	69.1	62.8	58.1	52.9	49.3	45.1	42.4	41.3	41.1	41.3	42.4
32.5°	59.0	55.4	51.6	46.8	42.6	39.9	36.9	35.2	35.2	35.6	36.6
35°	44.6	42.6	42.4	41.1	37.7	34.6	31.2	29.4	29.4	30.4	30.9
37.5°	39.4	35.6	35.2	34.6	33.1	29.1	25.9	24.4	24.2	24.9	25.9
40°	35.9	31.6	29.4	28.9	29.1	24.7	21.2	19.7	19.7	20.0	20.9
42.5°	33.1	28.2	24.2	23.6	24.7	20.7	17.2	15.7	15.7	15.7	16.9
45°	30.9	25.1	20.4	17.9	19.4	16.9	13.9	12.4	12.0	12.4	13.0
47.5°	29.4	22.9	17.9	14.5	14.5	13.5	11.2	9.5	9.0	9.2	9.9
50°	28.2	20.9	15.2	11.7	10.5	10.7	8.5	7.2	6.7	6.7	7.4
52.5°	26.2	18.9	13.2	9.9	8.0	7.2	6.3	5.2	5.0	5.2	5.7
55°	23.6	17.2	11.4	8.2	6.3	5.0	4.5	3.8	3.5	3.8	4.5
57.5°	20.9	14.5	9.2	6.5	4.2	3.2	3.0	2.5	2.0	2.3	2.7
59°	19.2	13.0	8.0	5.2	3.2	2.3	2.3	1.7	1.3	1.5	2.3
60°	18.5	12.0	6.7	4.5	2.7	1.7	1.7	1.3	0.8	1.0	1.7
62.5°	15.7	9.9	5.2	2.7	1.3	0.2	0.8	0.2	0.0	0.2	0.8
65°	13.2	8.0	3.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2
67.5°	11.0	6.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P648216  
 CATALOG NUMBER: GALN-SA1B-835-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3
2.5°	923.1	958.7	980.6	1022.0	1064.4	1097.1	1137.9	1174.5	1189.8	1197.7
5°	712.0	761.6	803.7	866.8	925.3	996.6	1068.9	1154.1	1186.7	1195.2
7.5°	499.6	550.3	594.4	667.4	750.9	846.3	954.5	1062.6	1110.2	1123.7
10°	360.9	414.9	468.8	541.8	619.8	723.2	835.9	969.7	1024.5	1035.0
12.5°	227.8	285.9	373.3	463.5	546.0	629.2	747.1	892.7	953.2	972.4
15°	132.1	175.5	241.5	359.1	464.0	574.2	702.7	863.7	931.5	951.3
17.5°	88.5	103.4	148.8	238.7	377.3	523.4	691.5	887.5	962.5	987.6
20°	74.5	81.3	97.2	145.6	290.6	478.0	694.5	951.7	1050.2	1081.6
22.5°	65.5	71.8	82.0	104.7	202.9	421.6	708.8	1043.7	1170.8	1210.9
25°	57.8	64.0	73.1	86.8	136.3	356.7	739.9	1178.3	1330.6	1374.6
27.5°	51.4	57.1	64.8	76.5	104.9	284.1	767.6	1309.3	1476.3	1512.2
30°	45.3	50.1	57.6	66.6	87.2	219.1	781.5	1424.0	1582.5	1622.4
32.5°	39.4	43.8	51.1	58.3	71.8	166.9	771.8	1508.2	1685.6	1711.1
35°	33.7	38.4	44.4	51.1	62.1	134.8	723.2	1603.0	1792.6	1812.5
37.5°	28.9	32.9	39.2	44.4	56.1	107.9	664.4	1688.1	1912.5	1941.1
40°	24.4	28.4	34.6	39.4	51.6	85.0	611.3	1782.9	2038.8	2074.2
42.5°	20.0	24.7	30.1	37.9	44.4	64.8	547.0	1859.6	2133.8	2178.1
45°	16.0	21.2	27.2	37.7	38.6	49.3	485.0	1919.4	2217.7	2257.6
47.5°	12.7	17.9	26.2	35.2	31.6	39.2	449.6	1982.0	2287.5	2319.4
50°	10.2	15.0	27.4	30.9	26.4	33.1	448.6	2051.8	2323.6	2344.9
52.5°	8.2	12.2	23.2	23.6	22.4	29.1	475.5	2130.2	2360.5	2378.0
55°	7.0	10.2	15.2	17.5	20.2	26.4	495.7	2251.1	2448.5	2465.0
57.5°	5.5	8.7	11.7	13.9	17.9	24.2	498.5	2344.3	2559.9	2570.6
59°	4.7	7.4	10.5	12.4	16.4	22.7	487.2	2350.1	2567.1	2584.3
60°	4.0	6.7	9.2	11.7	15.2	21.5	475.0	2308.4	2540.2	2559.4
62.5°	3.0	5.2	6.7	9.5	12.4	18.5	417.2	2163.1	2437.2	2450.7
65°	2.0	3.8	5.0	7.0	9.7	16.0	339.9	1974.7	2278.3	2308.4
67.5°	1.3	2.7	4.0	5.2	8.0	13.5	242.3	1693.4	2055.8	2075.2
70°	0.8	1.7	3.0	4.2	6.3	10.7	143.8	1338.5	1710.3	1714.3
72.5°	0.5	1.3	2.0	3.0	5.0	9.7	69.8	872.5	1248.8	1296.4
75°	0.2	0.8	1.3	2.3	4.0	8.0	33.4	582.9	908.6	922.3
77.5°	0.0	0.2	0.8	1.5	3.0	6.3	19.4	382.8	619.5	633.8
80°	0.0	0.0	0.5	1.3	2.3	4.0	11.7	225.8	375.3	382.3
82.5°	0.0	0.0	0.2	1.0	1.5	3.0	6.0	99.2	245.7	248.2
85°	0.0	0.0	0.2	1.0	1.3	2.0	2.3	13.5	109.2	111.2
87.5°	0.0	0.0	0.2	1.3	1.3	1.3	1.3	0.8	9.2	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)