

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: P647721

Luminaire Tested: **GALN-SA1A-835-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647721  
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-SA1A-835-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA 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: 2601.9 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

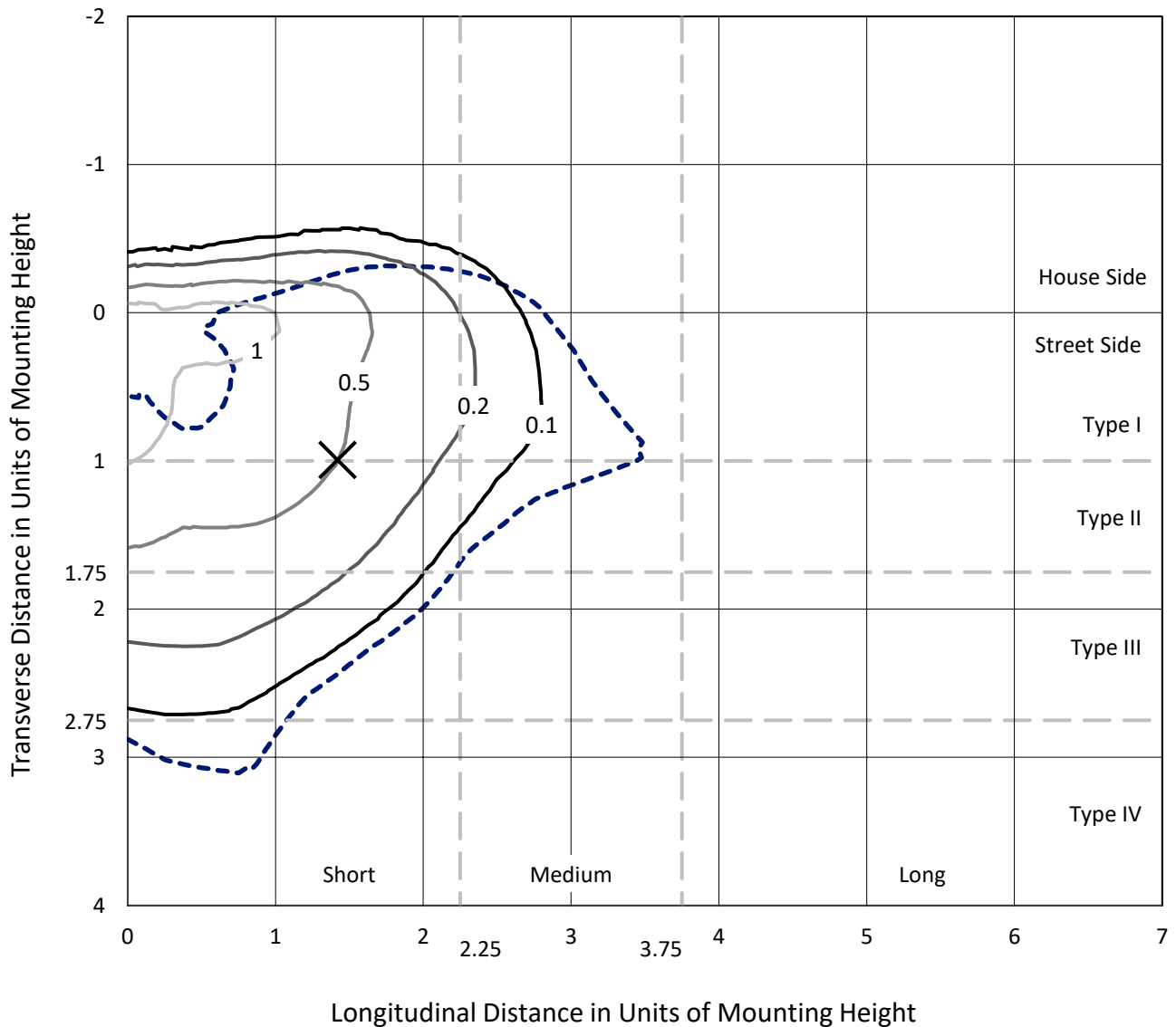
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

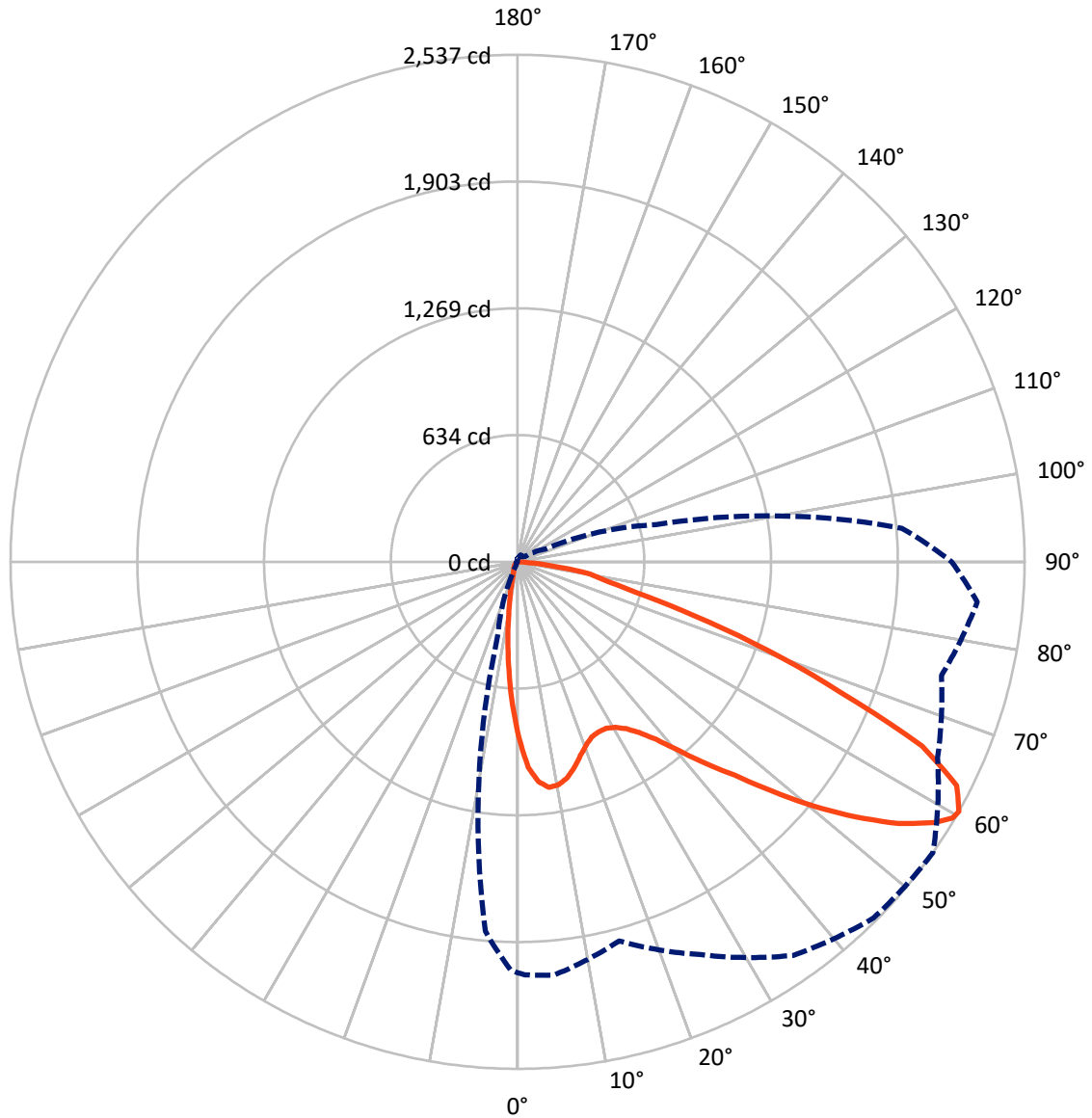
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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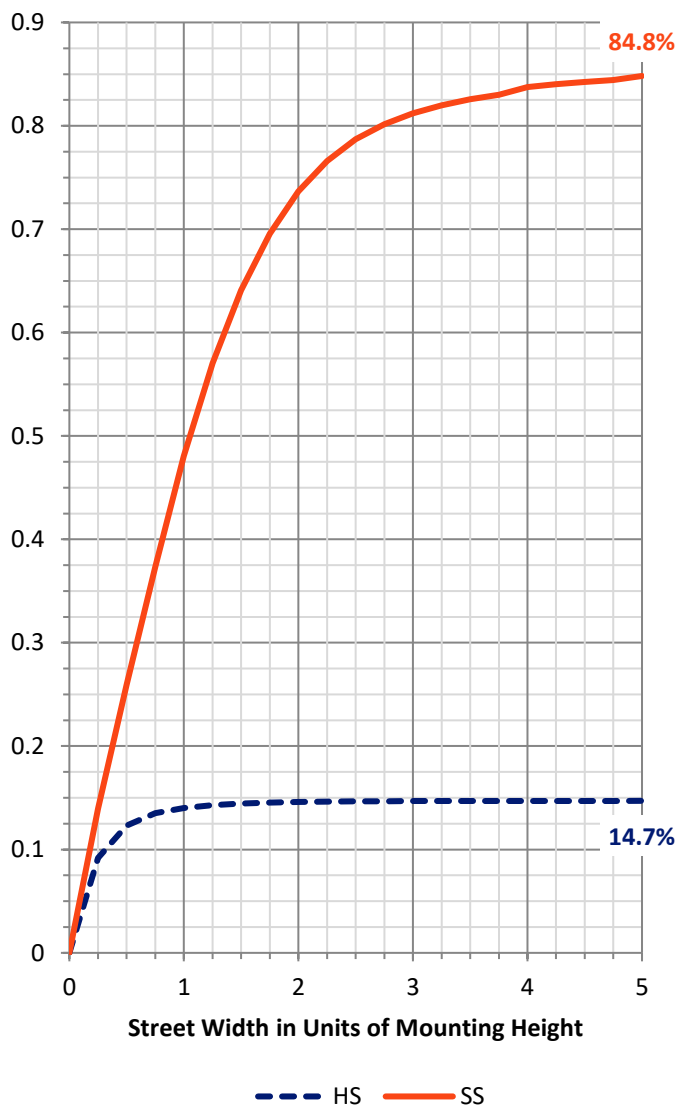
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	386.1	0.0	386.1
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	2215.8	0.0	2215.8
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	2601.9	0.0	2601.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.2	2.5
10°-20°	128.5	4.9
20°-30°	190.2	7.3
30°-40°	283.5	10.9
40°-50°	415.1	16.0
50°-60°	599.3	23.0
60°-70°	630.4	24.2
70°-80°	259.3	10.0
80°-90°	30.4	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°	2601.9	100.0
0°-180°	2601.9	100.0

**Coefficient of Utilization**



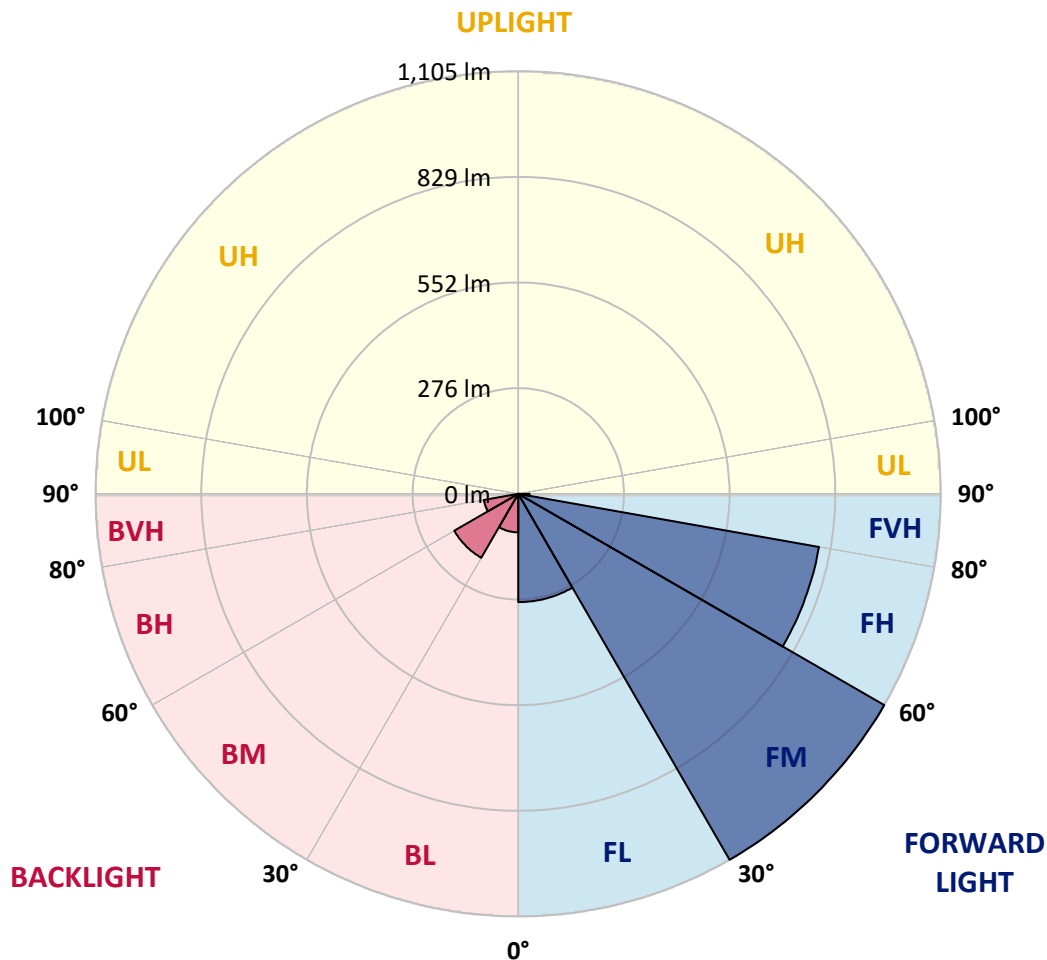
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.1	10.9			
FM (30°-60°)	1104.8	42.5			
FH (60°-80°)	798.4	30.7			G1/1800
FVH (80°-90°)	29.5	1.1			G1/100
BL (0°-30°)	100.8	3.9	B0/110		
BM (30°-60°)	193.1	7.4	B0/220		
BH (60°-80°)	91.4	3.5	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0
2.5°	962.5	960.9	975.1	998.3	1021.8	1034.0	1031.6	1030.6	1011.2	997.0	967.1
5°	960.5	968.7	994.2	1057.0	1104.7	1127.8	1134.6	1105.9	1068.1	1013.2	945.5
7.5°	903.0	913.2	954.7	1053.1	1137.8	1187.8	1186.0	1140.1	1062.1	977.1	880.6
10°	831.7	843.8	892.4	1011.8	1121.7	1187.8	1191.4	1133.3	1036.2	927.2	825.8
12.5°	781.4	795.7	849.6	973.3	1080.5	1145.5	1149.8	1107.7	1016.8	908.0	795.9
15°	764.4	777.8	832.6	953.9	1036.6	1071.7	1070.7	1066.3	1009.2	912.7	797.5
17.5°	793.6	804.7	866.4	962.7	995.6	992.0	997.2	1018.4	1010.8	951.3	848.0
20°	869.2	880.4	946.7	989.7	964.1	941.2	943.7	979.1	1025.6	1024.0	926.8
22.5°	973.1	992.1	1052.2	1042.3	959.9	909.8	904.8	950.9	1050.9	1107.7	1033.4
25°	1104.7	1123.9	1170.8	1126.0	980.6	902.4	897.8	942.3	1081.5	1189.5	1153.4
27.5°	1215.2	1229.9	1276.5	1207.5	1011.0	905.6	898.0	943.5	1106.3	1258.9	1254.5
30°	1303.8	1314.6	1342.1	1245.5	1037.2	919.6	910.9	961.1	1117.3	1292.7	1336.4
32.5°	1375.1	1393.3	1401.9	1286.2	1074.8	946.1	931.1	995.0	1144.1	1334.6	1422.3
35°	1456.6	1477.6	1466.6	1325.0	1124.5	987.4	968.9	1049.8	1184.8	1373.3	1522.1
37.5°	1559.9	1584.2	1541.1	1365.9	1177.0	1049.5	1040.8	1127.0	1246.5	1428.6	1629.0
40°	1666.9	1680.9	1613.4	1415.5	1241.5	1139.7	1148.0	1241.5	1327.2	1494.8	1742.8
42.5°	1750.4	1763.6	1687.7	1457.2	1307.4	1246.9	1281.1	1379.6	1419.7	1562.7	1827.7
45°	1814.3	1825.5	1739.2	1502.7	1396.3	1402.1	1466.8	1522.1	1512.4	1604.2	1893.2
47.5°	1863.9	1873.6	1778.8	1551.5	1529.5	1592.0	1690.9	1714.3	1608.6	1649.1	1952.5
50°	1884.4	1887.2	1791.3	1613.8	1680.7	1833.9	1937.1	1922.8	1718.8	1698.9	2015.5
52.5°	1911.0	1910.4	1826.7	1673.1	1822.9	2050.2	2153.1	2120.9	1843.3	1773.7	2086.5
55°	1980.9	1981.7	1902.6	1757.2	1944.0	2224.8	2335.0	2311.6	1974.7	1899.8	2169.1
57.5°	2065.8	2068.8	2010.5	1855.6	2059.8	2351.4	2470.8	2461.8	2152.3	2040.2	2247.3
59°	2076.8	2082.9	2061.6	1924.8	2128.5	2390.3	2517.2	2526.0	2247.4	2132.7	2289.5
60°	2056.8	2066.8	2076.4	1964.1	2168.8	2404.3	2520.0	2537.2	2318.9	2195.6	2308.8
62.5°	1969.5	1985.3	2033.5	2084.8	2219.0	2360.6	2430.5	2466.5	2407.5	2360.8	2310.6
65°	1855.2	1863.3	1933.0	2106.3	2121.5	2156.8	2178.4	2224.7	2301.2	2424.5	2227.9
67.5°	1667.6	1691.9	1777.3	1981.9	1833.7	1792.1	1786.6	1740.5	1939.3	2272.7	2024.0
70°	1377.7	1388.5	1493.7	1624.8	1383.9	1319.8	1345.4	1328.2	1503.3	1956.5	1629.0
72.5°	1041.8	1066.3	1169.0	1295.2	941.7	858.6	929.3	922.8	1129.2	1572.3	1119.1
75°	741.2	757.0	888.0	1013.6	659.5	558.7	584.2	608.0	788.2	1241.5	661.3
77.5°	509.3	522.9	621.2	670.3	481.1	460.8	421.6	444.6	516.5	736.6	359.9
80°	307.2	306.6	371.3	383.4	335.0	389.2	326.4	366.5	312.3	315.2	139.4
82.5°	199.5	197.5	227.1	247.5	186.4	196.1	131.5	189.6	203.5	87.9	44.1
85°	89.3	93.1	109.2	144.0	81.7	43.5	26.9	58.3	86.8	44.2	0.0
87.5°	9.2	7.2	19.3	35.1	11.2	1.2	4.0	2.0	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°	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0
2.5°	953.3	941.7	907.0	874.6	846.7	812.7	790.7	756.1	735.0	728.6	729.6
5°	915.0	881.6	815.7	763.0	704.4	670.9	620.1	571.2	544.7	534.9	530.6
7.5°	834.9	799.1	719.6	636.9	574.0	515.3	477.5	434.4	405.0	380.7	376.5
10°	775.5	728.4	629.8	541.0	491.3	447.2	409.4	366.3	331.7	304.0	296.4
12.5°	739.8	687.2	577.1	502.7	455.6	410.4	361.1	311.2	275.8	245.9	232.1
15°	733.4	672.3	562.4	475.3	417.2	362.5	297.0	243.1	206.7	178.4	169.8
17.5°	772.0	699.0	560.2	446.6	366.9	289.4	221.3	176.6	135.6	119.8	113.5
20°	840.9	746.0	559.9	413.3	315.2	222.9	155.4	115.2	98.5	90.9	87.3
22.5°	934.9	810.1	570.6	384.7	261.5	164.4	111.0	91.7	82.1	75.9	74.5
25°	1049.6	905.1	596.6	365.3	220.5	129.0	91.5	78.5	70.5	67.7	66.5
27.5°	1151.6	996.0	625.2	345.3	191.1	114.2	84.9	71.9	65.5	63.3	61.5
30°	1239.5	1078.5	639.1	318.8	167.4	104.5	86.1	76.9	68.5	61.9	58.9
32.5°	1312.8	1141.8	648.1	294.8	147.4	85.5	68.1	59.5	55.7	53.2	51.3
35°	1404.5	1210.3	642.7	281.2	137.2	77.9	62.1	51.3	44.9	40.1	38.1
37.5°	1500.6	1278.7	633.3	270.0	132.6	72.3	59.1	48.7	41.7	36.6	34.1
40°	1600.2	1342.2	622.3	259.6	128.4	68.7	57.3	46.4	39.5	34.1	31.2
42.5°	1691.3	1404.1	617.9	252.8	121.6	69.3	55.9	45.5	37.3	31.6	29.2
45°	1765.0	1462.8	623.8	249.2	114.2	68.3	56.3	44.2	35.5	30.1	27.6
47.5°	1843.7	1545.7	643.3	245.5	107.0	63.5	59.3	44.1	34.6	29.0	26.5
50°	1935.3	1651.8	687.7	236.7	98.1	58.3	63.1	43.8	33.7	27.9	25.2
52.5°	2057.2	1772.4	733.6	221.3	85.3	53.2	60.3	43.2	31.6	26.5	23.8
55°	2166.7	1899.4	772.4	203.1	69.1	46.0	54.3	40.6	28.3	24.0	21.6
57.5°	2212.0	1971.0	771.3	177.8	55.3	40.5	44.6	37.3	24.7	21.2	19.3
59°	2195.4	1962.0	745.4	159.2	50.5	37.4	37.0	36.9	23.0	19.3	17.6
60°	2172.0	1929.2	717.5	150.0	47.4	35.5	34.1	36.5	21.6	18.0	16.4
62.5°	2082.2	1793.1	625.2	134.4	43.5	30.1	27.2	30.9	19.3	15.7	14.3
65°	1952.3	1583.8	529.3	130.0	42.3	24.8	22.6	22.0	16.4	13.2	12.0
67.5°	1698.7	1340.3	428.8	127.0	42.7	20.8	19.8	16.6	13.6	11.0	10.2
70°	1360.1	1045.0	351.1	123.6	43.1	17.0	16.6	13.2	11.0	9.2	8.4
72.5°	826.3	619.4	276.4	107.3	41.9	13.6	14.8	10.0	8.0	6.6	6.2
75°	510.9	424.0	171.4	83.5	27.6	10.0	10.4	6.2	5.4	4.2	4.2
77.5°	296.0	267.8	61.3	30.1	12.2	6.0	4.6	3.2	3.0	1.8	1.8
80°	122.8	98.3	21.2	10.2	6.6	2.8	1.0	0.2	0.0	0.0	0.0
82.5°	35.9	31.9	5.8	4.6	2.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0
2.5°	712.6	706.0	703.0	713.2	703.8	715.7	706.6	710.6	722.4	727.6	741.0
5°	533.3	526.5	523.3	538.7	537.9	545.5	544.7	551.8	557.7	544.3	558.1
7.5°	371.5	366.9	374.5	386.5	399.3	395.1	395.1	385.7	388.9	387.0	386.3
10°	282.6	266.8	262.8	262.4	267.2	268.2	262.8	249.8	254.6	256.0	264.3
12.5°	222.3	210.1	191.4	183.1	180.9	182.7	164.8	153.4	158.8	155.6	163.8
15°	159.4	149.4	138.4	129.0	126.4	122.8	103.4	89.7	88.1	88.7	90.1
17.5°	113.8	107.0	107.0	96.9	91.5	80.7	70.9	64.9	64.3	64.9	65.9
20°	83.9	80.3	79.9	77.3	71.3	64.0	57.3	56.1	55.7	56.7	57.1
22.5°	72.3	68.5	65.3	65.1	59.5	53.5	50.3	48.7	48.9	49.3	50.3
25°	64.7	60.7	57.3	55.3	51.3	47.1	44.1	43.2	43.2	43.8	44.1
27.5°	59.3	54.3	51.3	48.5	44.9	41.3	38.7	38.1	37.7	38.1	39.1
30°	55.4	50.5	46.7	42.4	39.6	36.3	34.1	33.3	33.0	33.3	34.1
32.5°	47.4	44.5	41.4	37.7	34.2	32.0	29.7	28.3	28.3	28.7	29.4
35°	35.9	34.2	34.1	33.0	30.2	27.9	25.1	23.6	23.6	24.4	24.8
37.5°	31.6	28.7	28.3	27.9	26.6	23.4	20.8	19.7	19.4	20.0	20.8
40°	28.8	25.4	23.6	23.3	23.4	19.8	17.0	15.8	15.8	16.1	16.8
42.5°	26.6	22.6	19.4	19.0	19.8	16.6	13.8	12.6	12.6	12.6	13.6
45°	24.8	20.2	16.4	14.4	15.7	13.6	11.2	10.0	9.6	10.0	10.4
47.5°	23.6	18.4	14.4	11.6	11.6	10.8	9.0	7.6	7.2	7.4	8.0
50°	22.6	16.8	12.2	9.4	8.4	8.6	6.8	5.8	5.4	5.4	6.0
52.5°	21.1	15.2	10.6	8.0	6.4	5.8	5.0	4.2	4.0	4.2	4.6
55°	19.0	13.8	9.2	6.6	5.0	4.0	3.6	3.0	2.8	3.0	3.6
57.5°	16.8	11.6	7.4	5.2	3.4	2.6	2.4	2.0	1.6	1.8	2.2
59°	15.4	10.4	6.4	4.2	2.6	1.8	1.8	1.4	1.0	1.2	1.8
60°	14.8	9.6	5.4	3.6	2.2	1.4	1.4	1.0	0.6	0.8	1.4
62.5°	12.6	8.0	4.2	2.2	1.0	0.2	0.6	0.2	0.0	0.2	0.6
65°	10.6	6.4	2.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
67.5°	8.8	4.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.2	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



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 CATALOG NUMBER: GALN-SA1A-835-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0	881.0
2.5°	741.8	770.5	788.1	821.3	855.3	881.6	914.5	943.9	956.1	962.5
5°	572.2	612.1	645.9	696.6	743.6	800.9	859.0	927.5	953.7	960.5
7.5°	401.5	442.2	477.6	536.4	603.5	680.1	767.0	853.9	892.2	903.0
10°	290.0	333.5	376.7	435.4	498.1	581.2	671.7	779.2	823.3	831.7
12.5°	183.1	229.7	300.0	372.5	438.8	505.7	600.4	717.4	766.0	781.4
15°	106.2	141.0	194.0	288.6	372.9	461.4	564.8	694.1	748.6	764.4
17.5°	71.1	83.1	119.6	191.8	303.2	420.5	555.8	713.2	773.4	793.6
20°	59.9	65.3	78.1	117.0	233.5	384.1	558.1	764.8	843.9	869.2
22.5°	52.7	57.7	65.9	84.1	163.0	338.9	569.6	838.7	940.9	973.1
25°	46.4	51.4	58.6	69.7	109.5	286.6	594.6	946.9	1069.3	1104.7
27.5°	41.3	45.9	52.1	61.5	84.3	228.3	616.8	1052.2	1186.4	1215.2
30°	36.5	40.2	46.3	53.5	70.1	176.0	628.0	1144.4	1271.7	1303.8
32.5°	31.6	35.2	41.0	46.9	57.7	134.2	620.2	1212.1	1354.7	1375.1
35°	27.0	30.9	35.6	41.0	49.9	108.4	581.2	1288.2	1440.6	1456.6
37.5°	23.3	26.5	31.5	35.6	45.0	86.8	533.9	1356.6	1536.9	1559.9
40°	19.7	22.9	27.9	31.6	41.4	68.3	491.3	1432.7	1638.4	1666.9
42.5°	16.1	19.8	24.2	30.5	35.6	52.1	439.6	1494.4	1714.8	1750.4
45°	12.8	17.0	21.8	30.2	31.0	39.6	389.7	1542.5	1782.3	1814.3
47.5°	10.2	14.4	21.1	28.3	25.4	31.5	361.3	1592.8	1838.3	1863.9
50°	8.2	12.0	22.0	24.8	21.2	26.6	360.5	1648.8	1867.4	1884.4
52.5°	6.6	9.8	18.6	19.0	18.0	23.4	382.1	1712.0	1897.0	1911.0
55°	5.6	8.2	12.2	14.0	16.2	21.2	398.3	1809.0	1967.7	1980.9
57.5°	4.4	7.0	9.4	11.2	14.4	19.4	400.6	1884.0	2057.2	2065.8
59°	3.8	6.0	8.4	10.0	13.2	18.2	391.5	1888.6	2063.0	2076.8
60°	3.2	5.4	7.4	9.4	12.2	17.2	381.7	1855.2	2041.4	2056.8
62.5°	2.4	4.2	5.4	7.6	10.0	14.8	335.3	1738.3	1958.7	1969.5
65°	1.6	3.0	4.0	5.6	7.8	12.8	273.2	1587.0	1830.9	1855.2
67.5°	1.0	2.2	3.2	4.2	6.4	10.8	194.7	1360.9	1652.1	1667.6
70°	0.6	1.4	2.4	3.4	5.0	8.6	115.6	1075.7	1374.5	1377.7
72.5°	0.4	1.0	1.6	2.4	4.0	7.8	56.1	701.2	1003.6	1041.8
75°	0.2	0.6	1.0	1.8	3.2	6.4	26.9	468.5	730.2	741.2
77.5°	0.0	0.2	0.6	1.2	2.4	5.0	15.7	307.6	497.9	509.3
80°	0.0	0.0	0.4	1.0	1.8	3.2	9.4	181.4	301.6	307.2
82.5°	0.0	0.0	0.2	0.8	1.2	2.4	4.8	79.7	197.5	199.5
85°	0.0	0.0	0.2	0.8	1.0	1.6	1.8	10.8	87.7	89.3
87.5°	0.0	0.0	0.2	1.0	1.0	1.0	1.0	0.6	7.4	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)