

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: P458613

Luminaire Tested: **GALN-SA1D-735-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-735-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6285 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

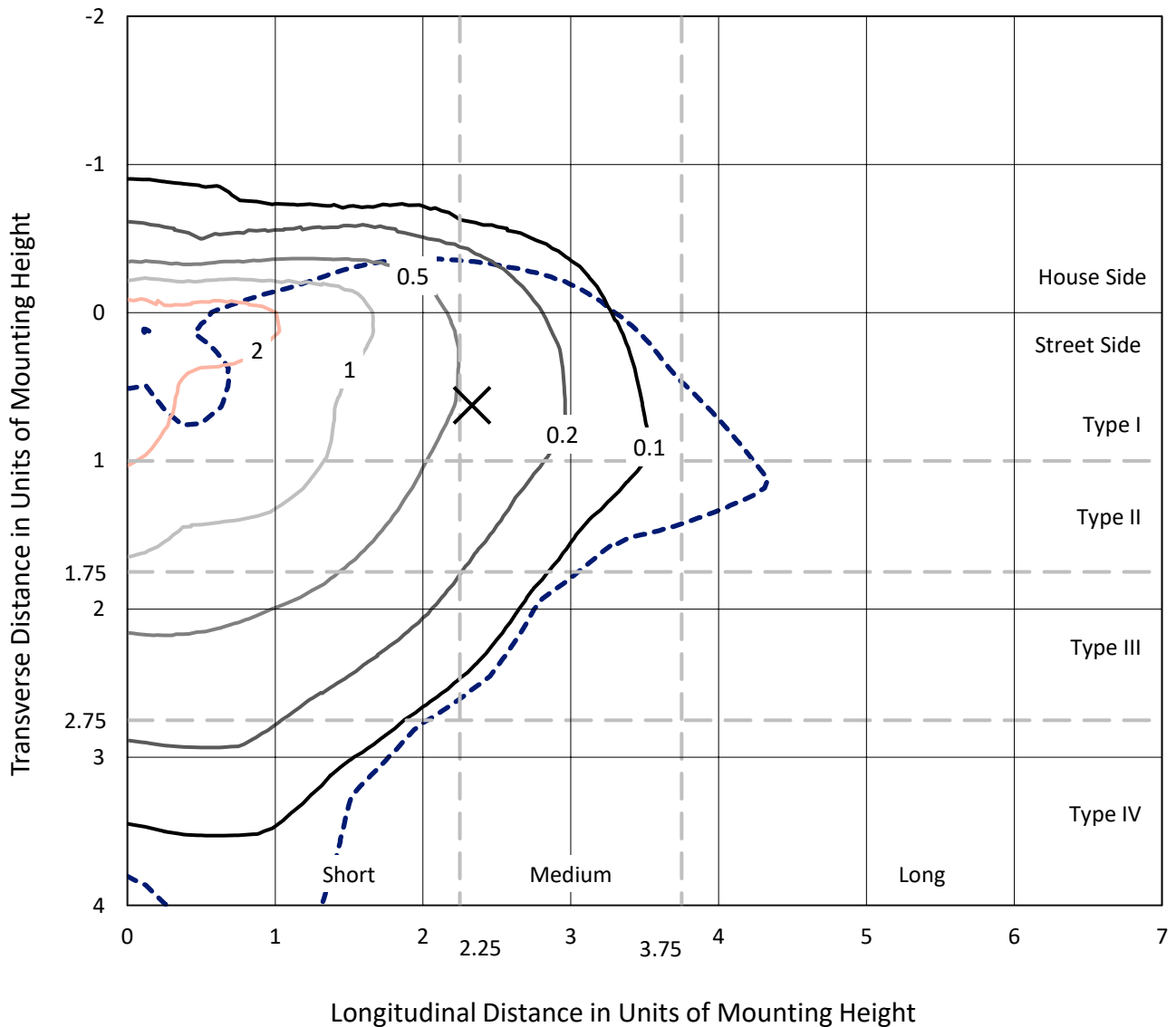
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

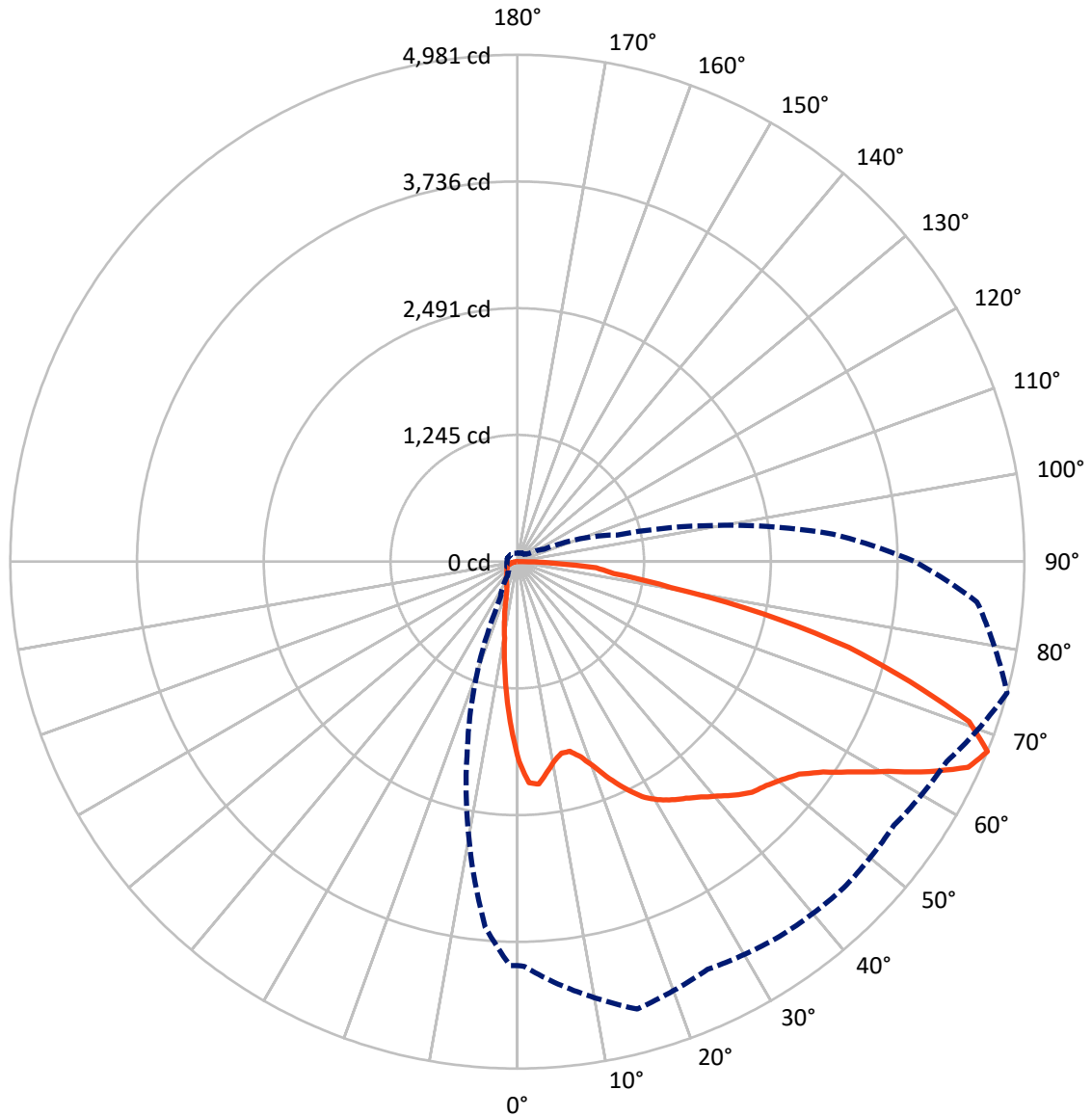
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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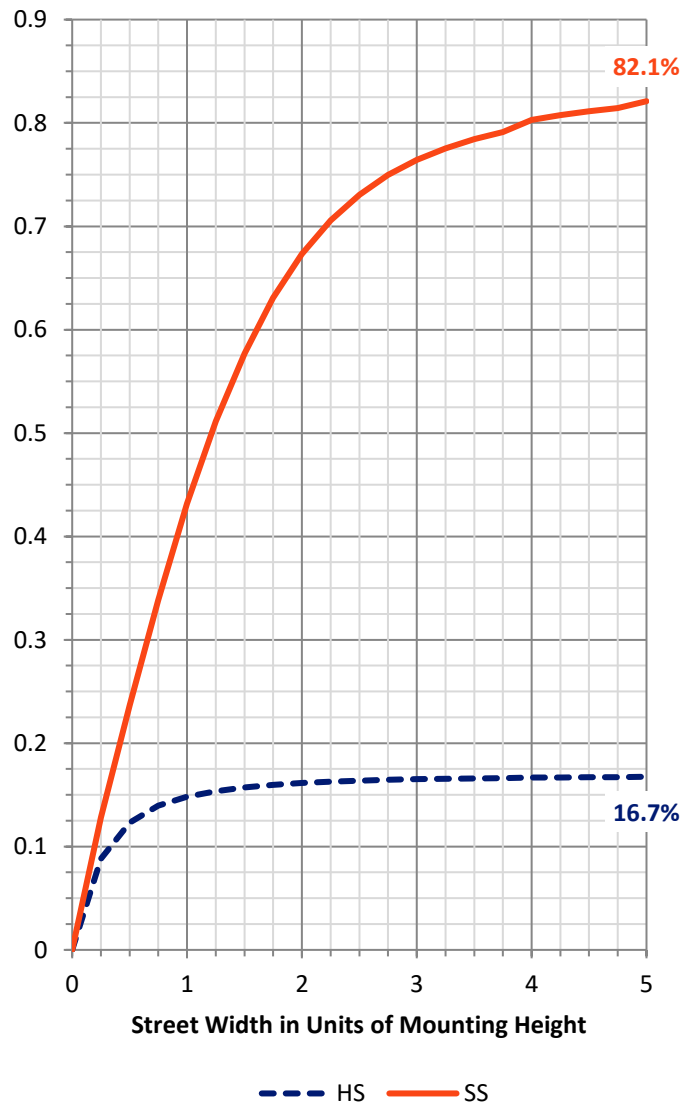
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1062.3	0.0	1062.3
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	5222.7	0.0	5222.7
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	6285.0	0.0	6285.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.9	2.4
10°-20°	310.6	4.9
20°-30°	447.0	7.1
30°-40°	643.8	10.2
40°-50°	904.3	14.4
50°-60°	1261.2	20.1
60°-70°	1499.5	23.9
70°-80°	883.1	14.1
80°-90°	186.7	3.0
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°	6285.0	100.0
0°-180°	6285.0	100.0



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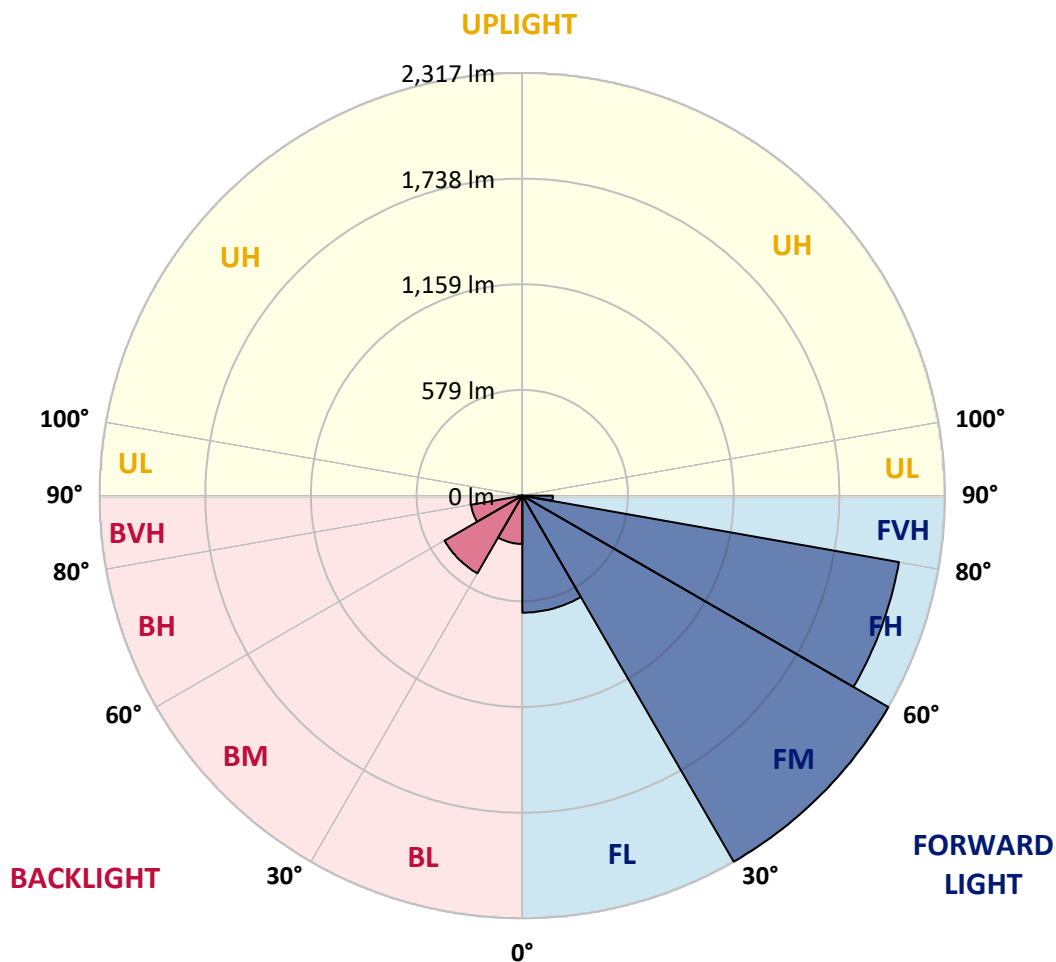
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	641.5	10.2			
FM	(30°-60°)	2317.0	36.9			
FH	(60°-80°)	2096.7	33.4			G2/5000
FVH	(80°-90°)	167.4	2.7			G2/225
BL	(0°-30°)	265.0	4.2	B1/500		
BM	(30°-60°)	492.2	7.8	B1/1000		
BH	(60°-80°)	285.8	4.5	B1/500		G1/500
BVH	(80°-90°)	19.3	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6
2.5°	2117.1	2120.0	2138.1	2190.9	2227.2	2240.5	2249.7	2232.4	2215.5	2174.4	2112.3
5°	2110.7	2127.2	2174.4	2292.9	2386.4	2426.7	2438.8	2386.8	2300.9	2195.3	2068.4
7.5°	1987.4	2009.5	2082.1	2280.8	2445.6	2539.9	2527.4	2433.5	2278.8	2090.5	1913.2
10°	1841.1	1865.6	1953.1	2193.3	2405.7	2535.5	2535.5	2421.0	2215.5	1991.8	1787.5
12.5°	1725.0	1750.8	1850.7	2103.4	2322.7	2445.6	2466.2	2367.8	2169.9	1929.3	1704.8
15°	1686.7	1711.7	1819.3	2049.0	2234.8	2309.8	2316.6	2284.4	2147.8	1933.8	1701.2
17.5°	1734.3	1766.5	1875.3	2065.1	2154.2	2158.7	2163.9	2189.3	2150.2	2014.8	1774.6
20°	1871.7	1906.4	2020.0	2117.1	2083.7	2037.7	2040.6	2105.9	2178.8	2148.6	1949.9
22.5°	2070.0	2100.2	2216.7	2208.6	2053.9	1959.1	1939.4	2030.5	2221.1	2315.4	2136.5
25°	2284.0	2319.5	2453.3	2344.5	2062.3	1912.4	1899.9	1986.2	2265.1	2471.4	2352.1
27.5°	2529.0	2563.7	2669.3	2481.5	2106.7	1908.8	1893.9	1982.1	2304.5	2615.7	2558.1
30°	2711.2	2743.1	2814.8	2596.7	2161.1	1933.0	1914.4	2014.0	2338.4	2714.4	2758.8
32.5°	2854.3	2887.3	2926.4	2668.5	2232.8	1976.9	1942.6	2072.0	2382.7	2789.8	2907.5
35°	3003.4	3042.5	3039.7	2732.2	2299.7	2027.7	1994.2	2155.8	2452.5	2855.5	3096.1
37.5°	3192.4	3208.2	3188.0	2789.4	2379.9	2119.2	2100.6	2280.4	2551.6	2934.9	3316.6
40°	3384.3	3415.7	3312.1	2858.7	2477.5	2291.2	2289.2	2464.6	2669.3	3028.0	3530.2
42.5°	3548.7	3575.3	3428.2	2919.2	2595.5	2501.2	2516.5	2711.6	2823.7	3136.0	3701.9
45°	3672.4	3696.2	3535.4	2977.6	2751.1	2743.9	2834.1	2976.4	3018.3	3233.1	3802.6
47.5°	3777.6	3800.6	3610.0	3066.3	2943.4	3033.6	3190.8	3252.5	3184.8	3288.8	3915.5
50°	3866.3	3873.2	3661.2	3171.9	3182.0	3388.7	3541.1	3581.0	3349.2	3368.6	4013.4
52.5°	3958.6	3949.7	3749.4	3304.9	3439.9	3725.6	3836.5	3878.0	3506.8	3466.9	4156.1
55°	4165.4	4173.8	3947.3	3472.5	3700.7	4056.5	4202.4	4162.5	3681.3	3647.9	4337.5
57.5°	4415.2	4408.0	4225.8	3734.9	3966.3	4364.5	4473.3	4409.2	3914.3	3896.5	4521.2
60°	4512.4	4522.0	4458.8	4017.0	4228.2	4634.1	4745.3	4645.8	4193.6	4185.5	4659.9
62.5°	4414.8	4469.2	4512.0	4268.1	4451.5	4832.4	4942.8	4829.2	4485.0	4543.4	4757.0
65°	4220.6	4232.3	4377.8	4480.9	4559.1	4865.0	4922.7	4862.2	4728.4	4869.5	4752.6
67.5°	3968.3	3978.4	4148.8	4550.7	4420.5	4494.2	4534.5	4516.8	4653.0	4981.1	4533.7
70°	3728.1	3720.0	3900.2	4372.9	3848.2	3736.1	3769.6	3714.0	4015.0	4708.2	4104.5
72.5°	3260.5	3289.6	3483.0	3878.8	3046.9	2864.8	2937.7	2793.8	3088.0	4032.4	3331.5
75°	2554.0	2560.9	2883.7	3255.3	2298.5	2011.1	2109.9	2049.8	2365.4	3363.7	2300.5
77.5°	1768.5	1753.2	2100.2	2486.3	1639.1	1472.3	1473.9	1445.3	1651.6	2476.6	1563.0
80°	1123.3	1099.9	1314.7	1536.0	1126.5	1205.1	1165.6	1164.4	1075.3	1527.9	945.1
82.5°	607.0	632.8	830.7	962.8	808.1	931.4	853.6	828.6	738.0	956.4	604.6
85°	276.5	300.7	442.9	654.9	613.8	620.7	414.7	489.3	610.6	776.6	322.8
87.5°	27.0	34.7	91.5	309.1	209.6	165.2	61.7	118.9	153.6	276.1	25.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6
2.5°	2086.9	2066.0	1994.6	1935.8	1873.3	1825.7	1763.7	1722.2	1693.5	1650.4	1645.2
5°	1991.0	1939.8	1815.7	1689.1	1579.9	1497.7	1414.2	1337.7	1292.5	1278.4	1260.3
7.5°	1829.4	1743.1	1583.5	1438.4	1313.1	1190.6	1096.3	1029.3	984.6	958.4	927.0
10°	1696.4	1596.4	1402.2	1224.4	1121.2	1045.1	962.0	890.3	835.1	787.9	762.1
12.5°	1606.9	1494.0	1275.6	1131.3	1051.5	970.5	873.4	792.8	711.4	657.8	634.8
15°	1579.9	1460.6	1236.5	1085.0	970.5	864.5	755.7	650.5	569.9	519.1	502.2
17.5°	1646.0	1501.7	1236.1	1023.3	875.4	748.8	609.4	510.6	428.0	390.1	378.0
20°	1769.3	1580.7	1239.7	962.4	772.2	594.1	443.3	362.3	322.8	306.7	300.7
22.5°	1941.4	1701.2	1250.6	902.4	659.4	456.2	332.1	291.0	276.9	274.1	272.9
25°	2153.4	1850.3	1287.3	848.4	564.2	348.2	277.7	259.2	251.1	248.3	247.9
27.5°	2348.5	2043.0	1331.6	802.0	472.4	300.3	251.1	235.4	227.3	226.9	227.7
30°	2524.6	2204.2	1368.7	750.0	402.6	266.8	233.8	218.0	210.4	210.0	212.4
32.5°	2677.0	2336.8	1396.1	698.9	363.9	246.3	218.0	201.1	194.7	193.5	194.7
35°	2839.8	2469.0	1383.6	659.0	341.8	229.3	206.4	189.8	182.2	178.5	178.5
37.5°	3025.6	2605.2	1362.3	625.9	331.7	215.2	196.3	180.2	172.5	168.9	168.5
40°	3228.3	2741.4	1332.8	596.5	321.6	206.8	189.4	172.5	163.2	159.6	158.8
42.5°	3407.3	2857.9	1308.7	577.1	305.1	208.4	183.4	166.9	155.2	150.3	149.9
45°	3562.8	2975.2	1304.2	565.9	291.4	206.0	181.8	162.4	148.7	143.5	142.7
47.5°	3684.5	3097.3	1329.6	559.4	276.5	193.1	192.2	159.6	143.1	137.4	136.6
50°	3832.9	3270.6	1387.6	546.1	262.8	181.0	203.1	159.2	138.6	131.4	129.4
52.5°	4030.3	3496.3	1466.2	522.3	243.0	169.7	193.9	159.2	133.4	126.1	123.7
55°	4329.0	3784.1	1543.2	488.9	215.2	154.8	174.9	154.4	125.7	119.3	117.7
57.5°	4526.9	3994.5	1592.4	442.5	180.6	143.9	150.7	146.7	118.1	111.2	111.2
60°	4537.0	4050.9	1569.0	384.1	158.8	133.8	131.0	147.9	111.2	104.0	103.2
62.5°	4420.9	3912.7	1447.3	331.7	147.1	122.9	118.5	129.8	104.4	97.1	95.9
65°	4239.5	3560.0	1236.1	306.7	140.7	113.3	106.8	106.4	97.1	90.3	88.7
67.5°	3906.2	3111.0	1015.6	292.2	137.4	102.4	96.3	94.3	88.7	83.0	82.2
70°	3414.9	2605.6	814.5	286.2	135.8	91.1	86.2	83.8	79.0	74.6	74.2
72.5°	2656.8	2113.5	672.3	282.1	135.0	80.6	75.4	72.1	69.3	65.3	65.3
75°	1908.4	1554.9	513.1	254.3	124.9	69.3	63.7	61.7	57.6	54.4	55.2
77.5°	1203.1	1047.1	337.7	187.0	96.7	55.6	50.8	49.6	46.3	41.9	44.7
80°	812.5	736.3	197.1	117.7	60.9	40.7	39.1	38.7	35.1	30.2	30.6
82.5°	553.0	542.5	102.4	66.9	35.1	23.8	23.0	23.8	19.7	16.1	16.1
85°	216.0	295.0	48.4	26.2	11.3	3.6	5.2	5.6	3.2	1.6	2.0
87.5°	4.0	30.2	1.2	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°	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6
2.5°	1637.1	1633.5	1639.5	1613.7	1619.0	1628.7	1633.5	1636.3	1676.2	1666.9	1692.3
5°	1277.2	1273.6	1297.0	1300.2	1312.3	1309.9	1321.5	1324.4	1338.9	1344.1	1379.6
7.5°	929.0	944.7	971.3	985.0	1005.6	1012.0	1006.0	1020.9	990.7	1012.4	1018.9
10°	746.4	727.5	716.2	747.6	751.7	781.5	769.4	759.7	777.5	778.3	795.2
12.5°	621.5	580.8	553.8	562.6	572.3	585.2	587.2	606.6	619.5	631.6	641.6
15°	487.3	473.2	448.6	436.5	450.2	455.4	467.9	484.0	497.7	501.4	515.1
17.5°	374.0	376.4	372.4	365.1	373.6	377.6	378.4	378.9	382.5	380.1	400.2
20°	301.1	309.5	319.6	321.2	324.0	326.1	322.4	308.7	309.1	317.6	324.0
22.5°	272.5	274.1	285.3	289.0	297.8	294.2	283.7	277.3	276.5	278.5	281.7
25°	249.9	252.3	260.4	266.0	272.9	266.4	258.7	252.7	251.9	253.9	257.1
27.5°	229.7	233.4	240.6	246.3	252.7	246.7	239.4	234.2	233.8	233.4	235.4
30°	213.6	217.6	222.9	229.3	233.8	228.5	221.7	218.8	218.4	217.6	218.4
32.5°	197.5	203.9	209.2	212.4	216.8	212.8	207.6	206.0	203.1	200.7	199.5
35°	179.4	186.2	194.3	198.3	202.7	198.7	195.1	188.2	183.4	183.0	183.8
37.5°	168.9	171.7	178.1	185.0	189.4	187.4	180.6	173.7	172.5	172.5	173.3
40°	159.6	160.8	163.6	172.5	180.6	174.5	166.1	164.0	164.0	163.6	164.0
42.5°	150.3	151.5	151.5	158.4	171.3	161.6	155.2	155.2	155.2	155.6	156.8
45°	141.9	142.3	141.9	146.7	158.8	150.7	146.3	147.5	148.3	149.1	149.9
47.5°	134.6	135.0	134.6	138.6	144.7	141.5	139.0	140.7	142.3	143.5	144.3
50°	128.2	127.8	128.6	131.0	133.8	134.6	133.0	135.4	136.2	137.8	139.9
52.5°	122.5	122.1	122.9	124.1	128.2	128.2	128.2	130.2	131.8	133.4	136.2
55°	116.1	116.5	117.7	119.3	124.5	123.7	124.1	125.7	127.4	129.8	131.4
57.5°	110.0	110.8	112.4	114.9	120.1	119.7	120.1	120.9	122.9	124.1	125.7
60°	103.2	104.8	106.8	108.4	113.7	113.3	115.3	116.9	118.1	118.1	118.9
62.5°	96.3	98.7	100.8	102.0	107.6	108.0	110.8	112.0	112.8	112.0	113.3
65°	89.5	93.1	93.9	95.5	101.2	101.6	104.8	107.6	106.8	106.0	108.0
67.5°	82.6	87.1	86.7	88.7	94.3	95.1	97.9	102.8	101.2	100.4	102.0
70°	75.0	78.2	78.6	79.8	87.5	86.2	90.7	95.1	93.9	94.3	94.3
72.5°	66.5	69.3	69.3	71.7	79.8	77.8	81.4	86.2	86.2	85.8	85.8
75°	56.4	58.0	59.6	63.3	71.7	69.3	71.7	76.2	77.0	76.2	76.2
77.5°	45.5	48.0	48.8	53.6	59.6	59.2	61.7	63.7	65.3	64.5	64.5
80°	32.2	34.7	37.9	43.1	46.8	48.0	49.2	50.8	51.6	51.6	52.4
82.5°	18.1	21.8	24.6	29.8	31.4	37.5	37.1	38.3	37.1	32.6	36.3
85°	4.0	7.7	10.9	13.7	15.7	21.8	23.0	25.8	21.4	19.7	19.7
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	6.4	8.9	7.7	6.4	6.4
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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 CATALOG NUMBER: GALN-SA1D-735-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6	1963.6
2.5°	1713.7	1748.8	1791.1	1864.0	1915.2	1970.4	2026.1	2085.3	2101.0	2117.1
5°	1389.3	1458.2	1495.7	1593.6	1696.4	1827.0	1933.8	2050.6	2099.4	2110.7
7.5°	1052.3	1099.1	1197.4	1296.6	1423.9	1561.0	1724.6	1906.8	1963.6	1987.4
10°	834.3	898.0	984.2	1090.6	1202.3	1349.8	1534.4	1747.2	1827.8	1841.1
12.5°	710.1	781.1	875.0	987.4	1093.0	1204.3	1390.5	1610.1	1696.4	1725.0
15°	567.9	653.7	762.1	880.6	995.5	1117.2	1305.8	1553.7	1653.2	1686.7
17.5°	446.2	515.5	632.8	761.3	897.6	1051.5	1288.1	1580.7	1703.2	1734.3
20°	341.4	390.9	489.7	625.5	785.1	986.6	1292.5	1682.7	1829.4	1871.7
22.5°	295.0	320.4	380.5	509.8	688.4	930.2	1310.7	1822.5	1999.5	2070.0
25°	267.2	280.5	314.4	399.0	596.1	875.4	1352.2	2010.7	2237.2	2284.0
27.5°	243.4	253.1	274.1	334.9	512.3	824.6	1400.5	2219.5	2459.3	2529.0
30°	220.9	233.8	253.5	297.4	458.7	778.3	1461.4	2388.8	2646.3	2711.2
32.5°	203.5	216.4	234.6	271.2	413.1	729.5	1497.7	2537.5	2799.1	2854.3
35°	189.4	200.3	219.3	250.3	378.4	692.4	1490.4	2655.6	2947.0	3003.4
37.5°	179.4	188.6	207.6	230.5	352.3	653.7	1486.8	2811.6	3127.1	3192.4
40°	170.1	179.8	197.1	217.6	326.1	608.2	1488.8	2966.3	3319.0	3384.3
42.5°	162.8	173.7	187.8	214.0	299.1	571.5	1488.8	3100.9	3485.8	3548.7
45°	156.8	168.5	182.2	213.6	277.7	543.7	1478.7	3216.6	3618.8	3672.4
47.5°	151.5	164.4	184.2	206.4	272.5	523.5	1469.9	3309.3	3727.3	3777.6
50°	147.9	163.2	195.9	197.9	274.1	517.5	1512.6	3426.2	3822.8	3866.3
52.5°	145.1	163.6	195.5	185.4	271.2	521.5	1601.7	3608.8	3955.4	3958.6
55°	139.4	163.2	185.4	171.3	259.6	528.4	1716.1	3874.0	4162.9	4165.4
57.5°	133.8	158.8	172.1	159.2	235.8	528.4	1854.0	4125.1	4413.2	4415.2
60°	128.2	165.2	151.1	148.7	204.7	518.7	1999.5	4235.5	4491.8	4512.4
62.5°	122.5	166.5	135.0	139.4	182.2	495.3	2107.9	4113.4	4385.4	4414.8
65°	116.1	134.2	124.5	129.8	170.5	456.2	2073.6	3889.7	4185.5	4220.6
67.5°	108.4	113.7	113.3	119.7	166.5	398.6	1893.1	3606.8	3970.3	3968.3
70°	99.1	102.0	103.2	110.0	158.8	353.9	1577.5	3239.6	3682.9	3728.1
72.5°	89.5	91.9	93.1	99.1	151.1	328.5	1224.4	2733.8	3190.0	3260.5
75°	79.0	80.6	82.2	87.5	143.1	291.0	872.2	2086.9	2443.2	2554.0
77.5°	68.1	68.1	70.1	75.4	120.5	240.2	585.2	1463.8	1655.3	1768.5
80°	55.2	55.6	54.8	60.5	88.7	164.4	332.5	977.8	1101.5	1123.3
82.5°	42.3	41.1	41.5	44.3	66.1	112.0	177.3	607.4	619.1	607.0
85°	26.6	26.6	25.8	29.0	42.3	58.4	96.7	372.0	290.6	276.5
87.5°	10.9	8.9	10.1	11.7	20.2	23.8	37.9	76.6	29.4	27.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)