

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: P526806

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526806
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-SA1D-735-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA 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: 5430 lumens
Efficiency: N/A
Efficacy: 83.5 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

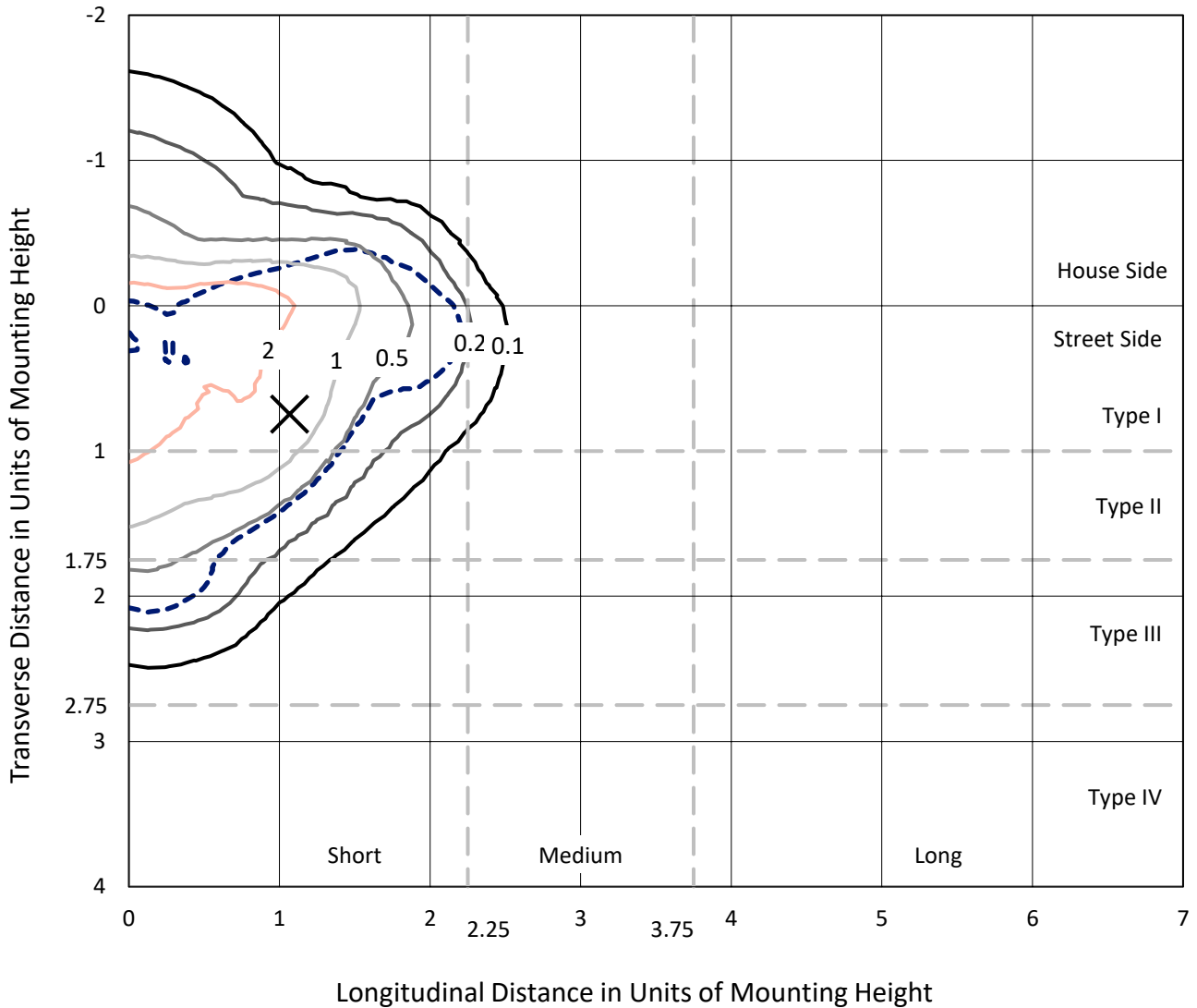
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

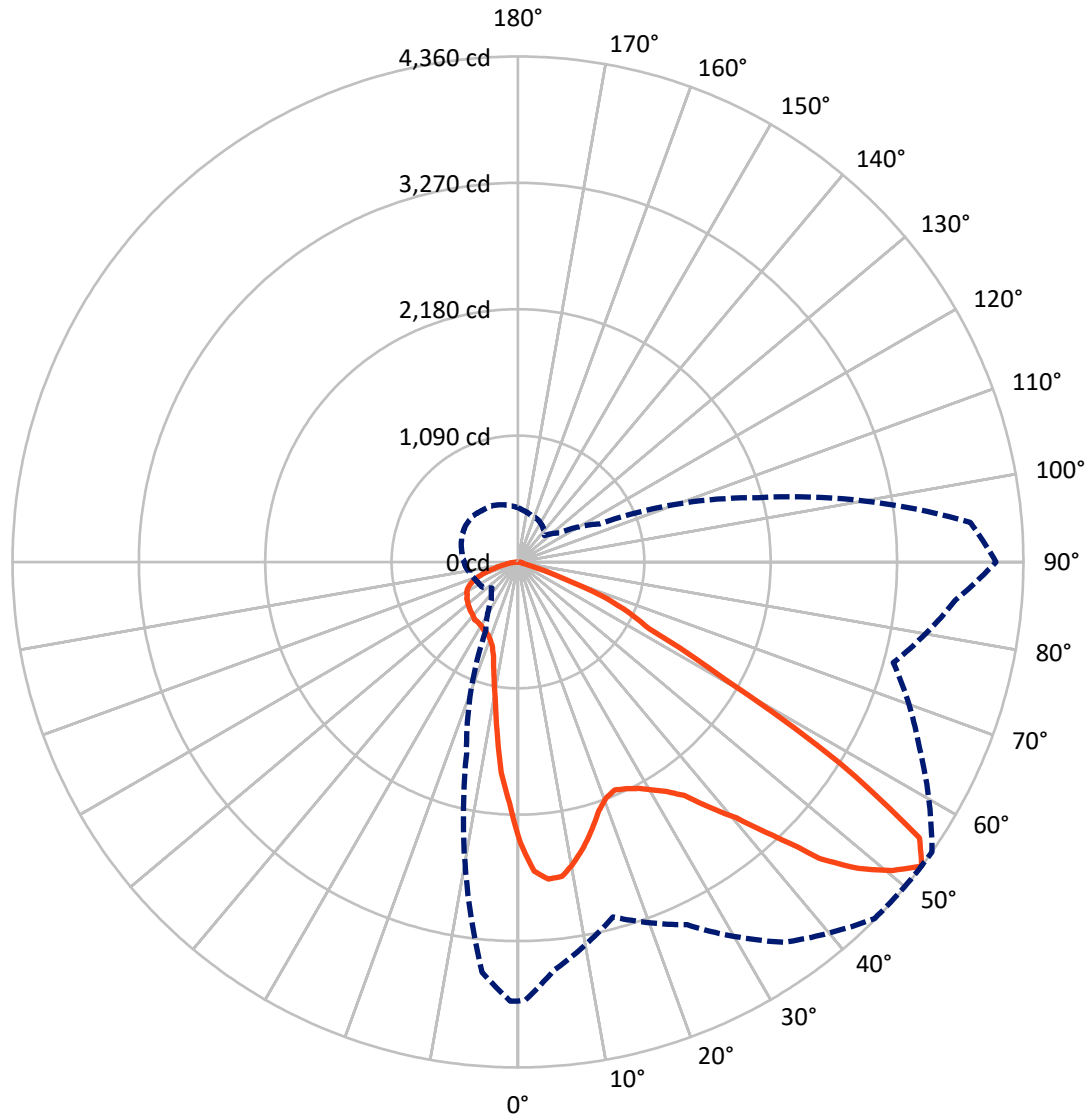
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	1656.4	0.0	1656.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3773.6	0.0	3773.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	5430.0	0.0	5430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	3.4
10°-20°	399.0	7.3
20°-30°	605.0	11.1
30°-40°	874.1	16.1
40°-50°	1168.1	21.5
50°-60°	1303.8	24.0
60°-70°	715.2	13.2
70°-80°	154.6	2.8
80°-90°	25.0	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°	5430.0	100.0
0°-180°	5430.0	100.0

Coefficient of Utilization



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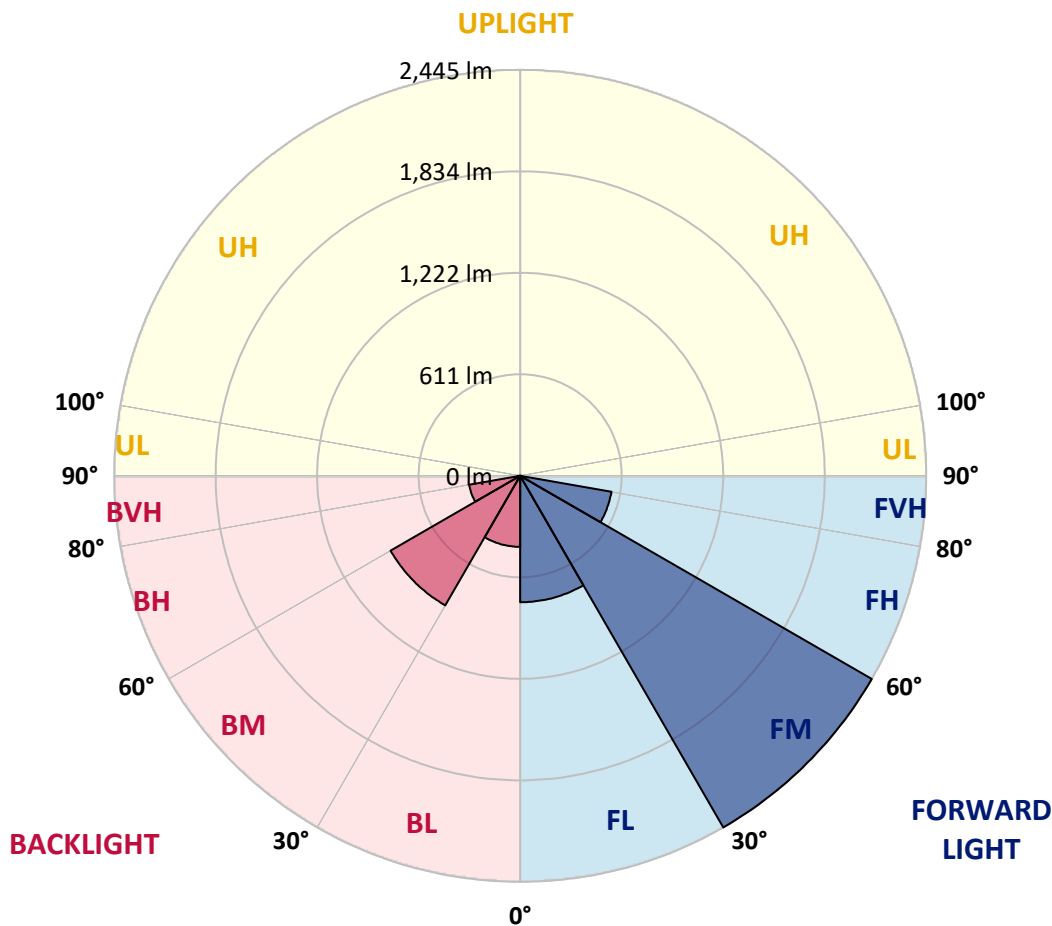
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	761.4	14.0			
FM (30°-60°)	2444.8	45.0			
FH (60°-80°)	558.1	10.3			G0/660
FVH (80°-90°)	9.3	0.2			G0/10
BL (0°-30°)	427.7	7.9	B1/500		
BM (30°-60°)	901.2	16.6	B1/1000		
BH (60°-80°)	311.8	5.7	B1/500		G1/500
BVH (80°-90°)	15.8	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°	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2
2.5°	2541.9	2527.7	2540.3	2600.6	2635.5	2659.3	2674.3	2672.0	2614.9	2559.4	2559.4
5°	2467.4	2449.2	2475.3	2611.7	2748.9	2760.8	2780.6	2748.1	2664.0	2562.5	2435.7
7.5°	2251.7	2265.2	2308.8	2488.0	2666.4	2756.0	2779.8	2738.6	2602.2	2412.7	2226.4
10°	2065.4	2097.1	2197.8	2391.3	2555.4	2672.0	2698.1	2640.2	2532.4	2300.1	2133.6
12.5°	2001.2	1981.4	2093.2	2286.6	2443.6	2506.2	2518.1	2522.1	2449.2	2243.0	2040.0
15°	1993.3	2005.9	2093.2	2239.8	2336.6	2339.7	2359.6	2390.5	2400.0	2281.9	2083.6
17.5°	2107.4	2092.4	2182.0	2298.5	2252.5	2206.5	2211.3	2255.7	2334.2	2315.2	2220.8
20°	2276.3	2310.4	2381.0	2369.1	2245.4	2128.8	2129.6	2171.7	2326.3	2453.1	2411.9
22.5°	2557.0	2590.3	2642.6	2499.1	2245.4	2105.8	2078.9	2136.0	2377.0	2617.2	2627.6
25°	2813.1	2874.1	2888.4	2719.5	2358.0	2127.3	2109.8	2166.1	2427.8	2777.4	2874.9
27.5°	3046.2	3068.4	3131.0	2861.4	2420.6	2141.5	2139.9	2212.1	2492.0	2857.5	3096.1
30°	3230.1	3227.8	3263.4	2951.0	2520.5	2221.6	2144.7	2281.1	2576.0	2989.9	3300.7
32.5°	3355.4	3382.4	3457.7	3075.5	2562.5	2297.7	2237.5	2361.9	2678.3	3052.5	3445.0
35°	3575.8	3622.6	3527.5	3144.5	2695.7	2373.0	2302.5	2472.2	2729.0	3120.7	3621.8
37.5°	3783.5	3747.9	3651.1	3181.8	2782.2	2512.6	2446.8	2685.4	2886.8	3269.0	3739.1
40°	3916.7	3916.0	3743.9	3211.9	2843.2	2725.9	2721.9	2901.9	3080.3	3362.5	3870.8
42.5°	3974.6	4030.1	3782.0	3208.7	2971.7	2984.3	3064.4	3225.4	3217.4	3381.6	3867.6
44°	4053.9	4087.2	3847.8	3215.9	3057.3	3158.8	3347.5	3449.8	3337.2	3371.3	3863.6
45°	4050.7	4053.1	3754.2	3225.4	3130.2	3304.7	3473.5	3646.4	3442.6	3349.1	3916.0
47.5°	3958.0	3931.0	3674.9	3154.8	3357.8	3690.0	3846.2	3950.8	3572.6	3301.5	3850.9
50°	3774.8	3743.9	3482.3	3124.7	3405.4	3929.4	4145.1	4183.2	3690.8	3254.7	3786.7
52.5°	3787.5	3778.8	3537.0	3169.9	3452.9	4004.8	4350.4	4360.0	3824.8	3353.0	3787.5
55°	4014.3	3984.1	3694.0	3226.2	3418.0	3916.7	4219.6	4203.0	3779.6	3293.6	3857.3
57.5°	3673.3	3693.2	3476.7	3003.4	2991.5	3184.1	3317.3	3276.1	3154.0	2972.4	3588.5
60°	2963.7	3020.0	3040.6	2511.8	2257.3	2158.2	2118.5	2045.6	2066.2	2442.0	3152.4
62.5°	2541.9	2538.8	2668.0	2277.1	1478.7	1271.8	1252.7	1269.4	1507.2	2404.0	3087.4
65°	2015.5	2069.4	2109.0	1929.8	1170.3	944.3	943.5	1049.0	1304.3	2009.1	2492.8
67.5°	1279.7	1350.2	1399.4	1234.5	782.6	672.3	654.1	781.0	903.9	1317.7	1500.9
70°	721.5	754.8	777.0	712.0	497.9	348.9	328.2	358.4	546.3	853.1	889.6
72.5°	278.3	293.4	323.5	325.9	187.9	112.6	91.2	109.4	229.9	337.8	321.9
75°	42.8	46.0	65.0	77.7	53.9	41.2	43.6	45.2	64.2	87.2	72.9
77.5°	20.6	20.6	19.8	23.0	27.0	29.3	31.7	34.9	38.1	42.0	40.4
80°	13.5	13.5	13.5	15.9	19.8	23.8	27.0	28.5	30.1	33.3	31.7
82.5°	8.7	8.7	8.7	11.9	15.9	19.8	21.4	25.4	28.5	33.3	30.9
85°	4.8	4.8	4.8	7.9	11.9	16.7	15.9	12.7	7.1	0.8	1.6
87.5°	1.6	1.6	1.6	1.6	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°	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2
2.5°	2492.8	2456.3	2453.1	2378.6	2312.0	2279.5	2253.3	2180.4	2196.2	2154.2	2153.4
5°	2372.2	2297.7	2177.2	2078.1	1979.0	1959.2	1872.7	1797.4	1799.8	1745.9	1755.4
7.5°	2155.8	2104.3	1957.6	1802.2	1670.6	1577.0	1495.3	1446.2	1383.5	1362.1	1351.0
10°	2018.6	1955.2	1790.3	1595.2	1447.8	1397.8	1319.3	1275.7	1211.5	1179.8	1157.6
12.5°	1958.4	1865.6	1659.5	1461.2	1362.9	1311.4	1244.8	1165.5	1089.4	1060.1	1019.6
15°	1964.7	1853.7	1621.4	1407.3	1289.2	1189.3	1129.8	1041.8	964.1	912.6	883.3
17.5°	2060.7	1925.9	1638.9	1366.1	1196.4	1071.2	954.6	859.5	797.6	758.8	749.3
20°	2287.4	2104.3	1668.2	1299.5	1103.7	947.5	804.0	704.9	657.3	656.5	657.3
22.5°	2476.1	2294.5	1727.7	1259.9	1010.9	788.9	646.2	614.5	605.0	624.8	627.2
25°	2730.6	2508.6	1829.9	1239.2	925.3	672.3	584.3	572.4	571.7	597.0	597.8
27.5°	2991.5	2695.7	1891.0	1179.0	838.1	612.1	547.1	544.7	557.4	584.3	582.0
30°	3169.1	2852.7	2001.2	1106.8	735.0	559.0	532.0	535.2	552.6	573.2	576.4
32.5°	3376.0	3007.3	2029.7	1067.2	671.6	514.6	495.5	502.7	524.9	557.4	574.8
35°	3613.1	3116.7	2073.3	1013.3	647.8	480.5	471.0	478.9	505.8	527.3	546.3
37.5°	3788.3	3310.2	2081.3	971.3	621.6	461.4	446.4	472.5	488.4	518.5	528.0
40°	3918.3	3450.5	2101.9	945.1	601.0	436.9	436.9	454.3	475.7	503.5	522.5
42.5°	4001.6	3552.8	2116.9	921.3	561.3	429.7	425.8	443.2	471.8	498.7	507.4
44°	4052.3	3596.4	2101.9	899.1	550.2	421.0	421.0	436.1	458.3	490.0	500.3
45°	4065.0	3651.1	2068.6	898.3	536.8	410.7	409.1	437.7	452.7	491.6	497.9
47.5°	4114.2	3718.5	2072.5	872.9	504.3	386.1	413.9	426.6	440.0	474.1	495.5
50°	4112.6	3760.6	2063.8	835.7	480.5	358.4	404.4	418.6	432.1	467.0	475.7
52.5°	4123.7	3917.5	2143.9	776.2	437.7	322.7	372.6	404.4	421.0	450.3	468.6
55°	4118.1	4007.1	2223.2	731.8	377.4	301.3	345.7	383.0	406.7	437.7	446.4
57.5°	3761.3	3541.7	2057.5	648.6	312.4	275.9	307.6	360.8	390.9	422.6	433.7
60°	3073.1	2729.8	1696.7	477.3	256.9	253.7	286.2	353.6	366.3	394.1	413.1
62.5°	2840.0	2394.4	1345.5	364.7	219.6	232.3	264.0	319.5	339.3	373.4	390.9
65°	2222.4	1590.5	833.3	246.6	193.5	208.5	238.7	279.9	312.4	344.1	364.7
67.5°	1316.2	869.0	412.3	172.8	168.9	184.7	215.7	246.6	283.8	318.7	329.0
70°	716.7	427.4	176.0	131.6	143.5	157.8	187.9	209.3	245.0	272.0	289.4
72.5°	229.9	130.0	88.0	97.5	109.4	126.1	144.3	170.5	195.8	211.7	226.0
75°	55.5	54.7	62.6	68.2	79.3	92.0	107.0	120.5	140.3	155.4	168.1
77.5°	38.9	42.0	48.4	56.3	60.3	65.0	74.5	84.8	93.6	104.7	112.6
80°	30.1	32.5	37.3	41.2	45.2	49.2	53.9	57.9	63.4	70.6	74.5
82.5°	28.5	30.1	34.9	37.3	35.7	34.9	38.1	39.6	40.4	42.8	45.2
85°	2.4	0.0	1.6	5.6	13.5	19.8	21.4	21.4	20.6	22.2	22.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.2	2.4
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2
2.5°	2143.9	2116.9	2127.3	2139.9	2121.7	2079.7	2090.8	2086.0	2128.8	2125.7	2168.5
5°	1797.4	1755.4	1760.2	1822.0	1802.2	1823.6	1780.8	1775.2	1783.2	1787.1	1794.3
7.5°	1375.6	1370.1	1417.6	1470.0	1494.5	1469.2	1427.2	1417.6	1408.9	1391.5	1431.1
10°	1122.7	1124.3	1121.1	1160.8	1188.5	1183.0	1157.6	1154.4	1137.8	1131.4	1153.6
12.5°	1002.2	980.8	970.5	957.8	979.2	993.5	982.4	974.4	975.2	983.2	986.3
15°	885.6	872.2	850.0	835.7	846.0	838.9	834.9	850.7	846.8	845.2	864.2
17.5°	754.8	765.9	764.3	748.5	761.9	756.4	755.6	744.5	729.4	718.3	724.7
20°	668.4	689.0	704.9	705.6	712.8	712.0	700.1	666.0	654.9	652.5	654.1
22.5°	637.5	648.6	667.6	694.5	694.5	681.9	667.6	627.9	617.6	606.5	601.8
25°	612.9	634.3	658.9	662.0	674.7	662.8	639.8	620.0	598.6	583.5	583.5
27.5°	600.2	624.0	642.2	647.8	665.2	655.7	631.9	606.5	581.2	580.4	566.9
30°	594.6	616.8	628.7	642.2	650.1	635.1	627.9	601.0	575.6	569.3	547.1
32.5°	578.0	609.7	631.9	628.7	635.1	628.7	618.4	596.2	567.7	553.4	551.0
35°	559.0	590.7	614.5	631.1	635.1	621.6	615.3	585.1	546.3	539.1	514.6
37.5°	548.7	567.7	597.0	624.0	629.5	622.4	601.0	570.1	531.2	523.3	501.9
40°	536.0	560.6	583.5	605.7	622.4	605.0	580.4	550.2	532.8	509.0	502.7
42.5°	526.5	554.2	573.2	597.8	616.8	593.9	565.3	544.7	520.1	504.3	486.0
44°	523.3	548.7	561.3	591.5	607.3	589.9	566.1	544.7	516.2	501.9	486.0
45°	512.2	547.1	560.6	587.5	601.0	586.7	556.6	535.2	514.6	497.1	480.5
47.5°	501.1	524.9	547.9	569.3	578.8	574.0	548.7	522.5	497.9	487.6	471.8
50°	497.9	521.7	543.1	562.9	574.0	564.5	541.5	516.2	487.6	471.0	457.5
52.5°	482.1	511.4	535.2	541.5	555.8	550.2	532.8	505.1	478.1	463.8	452.7
55°	459.1	490.0	522.5	530.4	551.0	542.3	516.2	490.0	467.0	445.6	431.3
57.5°	450.3	480.5	512.2	522.5	535.2	520.9	514.6	486.8	450.3	439.2	417.0
60°	428.1	466.2	492.4	516.2	516.9	513.0	501.9	470.2	440.0	419.4	403.6
62.5°	410.7	446.4	467.0	489.2	502.7	491.6	480.5	451.1	418.6	395.6	377.4
65°	385.3	417.8	435.3	448.8	463.8	462.2	443.2	421.8	387.7	369.5	352.0
67.5°	346.5	375.0	398.8	411.5	421.0	418.6	404.4	389.3	354.4	336.2	323.5
70°	299.7	329.0	344.1	351.2	360.8	365.5	354.4	347.3	316.4	292.6	280.7
72.5°	241.0	260.1	282.3	288.6	292.6	295.7	295.7	289.4	257.7	248.2	227.6
75°	177.6	192.7	209.3	209.3	216.5	217.2	218.8	214.9	191.1	178.4	173.6
77.5°	120.5	131.6	145.1	150.6	155.4	154.6	153.8	142.7	130.0	124.5	119.7
80°	78.5	89.6	95.9	103.1	107.8	107.0	108.6	100.7	95.1	85.6	87.2
82.5°	46.8	55.5	61.8	70.6	70.6	72.9	72.9	70.6	65.0	60.3	60.3
85°	22.2	29.3	33.3	38.9	42.0	42.8	38.1	32.5	27.0	24.6	27.0
87.5°	4.0	5.6	7.9	7.1	8.7	7.9	7.9	7.9	7.9	6.3	7.1
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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CATALOG NUMBER: GALN-SA1D-735-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2	2422.2
2.5°	2152.6	2192.3	2220.0	2266.0	2345.3	2408.7	2473.7	2522.1	2527.7	2541.9
5°	1820.4	1841.8	1912.4	2004.4	2069.4	2176.4	2245.4	2370.7	2417.4	2467.4
7.5°	1421.6	1456.5	1550.8	1612.7	1755.4	1889.4	2028.1	2182.8	2244.6	2251.7
10°	1198.8	1249.6	1313.8	1412.9	1490.6	1639.6	1812.5	1984.5	2053.5	2065.4
12.5°	1052.9	1117.9	1203.6	1274.9	1349.5	1479.5	1645.2	1857.7	1947.3	2001.2
15°	912.6	980.0	1074.3	1173.4	1239.2	1394.6	1589.7	1829.1	1945.7	1993.3
17.5°	768.3	830.9	908.6	1015.7	1148.1	1322.5	1581.0	1924.3	2051.9	2107.4
20°	644.6	679.5	769.9	880.1	1045.8	1248.8	1584.1	2064.6	2251.7	2276.3
22.5°	596.2	604.2	639.8	741.3	922.9	1173.4	1640.4	2263.6	2476.1	2557.0
25°	559.0	557.4	566.9	635.1	833.3	1144.1	1695.9	2446.8	2725.1	2813.1
27.5°	538.4	522.5	523.3	587.5	769.9	1096.5	1767.3	2656.9	3007.3	3046.2
30°	528.0	524.9	515.4	541.5	700.9	1025.2	1779.2	2863.8	3173.8	3230.1
32.5°	521.7	490.8	478.9	488.4	635.9	947.5	1823.6	3000.2	3380.0	3355.4
35°	490.0	462.2	454.3	463.8	589.9	903.9	1794.3	3119.1	3534.6	3575.8
37.5°	478.1	453.5	437.7	429.7	547.1	867.4	1779.2	3302.3	3684.4	3783.5
40°	467.0	440.8	421.8	413.9	513.8	819.0	1774.4	3443.4	3857.3	3916.7
42.5°	454.3	437.7	416.3	402.0	473.3	770.7	1719.7	3487.0	3910.4	3974.6
44°	450.3	425.0	402.8	398.0	457.5	746.1	1708.6	3526.7	3956.4	4053.9
45°	446.4	422.6	397.2	390.9	451.9	732.6	1693.6	3536.2	4032.5	4050.7
47.5°	435.3	420.2	395.6	378.2	440.0	703.3	1648.4	3482.3	3954.8	3958.0
50°	426.6	409.1	383.7	349.7	424.2	678.7	1669.0	3462.4	3767.7	3774.8
52.5°	417.0	390.9	376.6	317.9	398.0	658.1	1712.6	3552.0	3789.1	3787.5
55°	405.9	377.4	342.5	291.0	354.4	631.9	1818.0	3728.8	3987.3	4014.3
57.5°	388.5	363.9	314.0	267.2	304.5	582.0	1783.9	3390.3	3668.6	3673.3
60°	365.5	342.5	284.6	249.0	249.8	459.1	1595.2	2641.8	2894.7	2963.7
62.5°	343.3	330.6	260.1	222.8	212.5	365.5	1348.7	2195.4	2484.8	2541.9
65°	317.1	286.2	238.7	203.0	182.4	256.1	955.4	1640.4	1938.6	2015.5
67.5°	283.8	250.5	210.1	178.4	156.2	171.3	493.2	932.4	1234.5	1279.7
70°	248.2	217.2	176.8	150.6	126.1	118.1	217.2	444.8	674.7	721.5
72.5°	203.8	175.2	141.1	118.9	94.4	81.7	72.9	118.9	239.4	278.3
75°	147.5	127.7	106.2	84.8	66.6	52.3	42.8	35.7	39.6	42.8
77.5°	108.6	92.8	78.5	60.3	46.8	37.3	29.3	22.2	21.4	20.6
80°	84.8	75.3	62.6	48.4	36.5	27.8	20.6	15.1	13.5	13.5
82.5°	66.6	61.8	51.5	39.6	30.1	22.2	15.1	10.3	8.7	8.7
85°	25.4	25.4	37.3	32.5	23.0	15.9	10.3	5.6	4.8	4.8
87.5°	6.3	6.3	6.3	6.3	5.6	4.8	4.8	2.4	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)