

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: P526598

Luminaire Tested: **GALN-SA1C-740-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526598
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-740-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 5298 lumens
Efficiency: N/A
Efficacy: 92.9 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

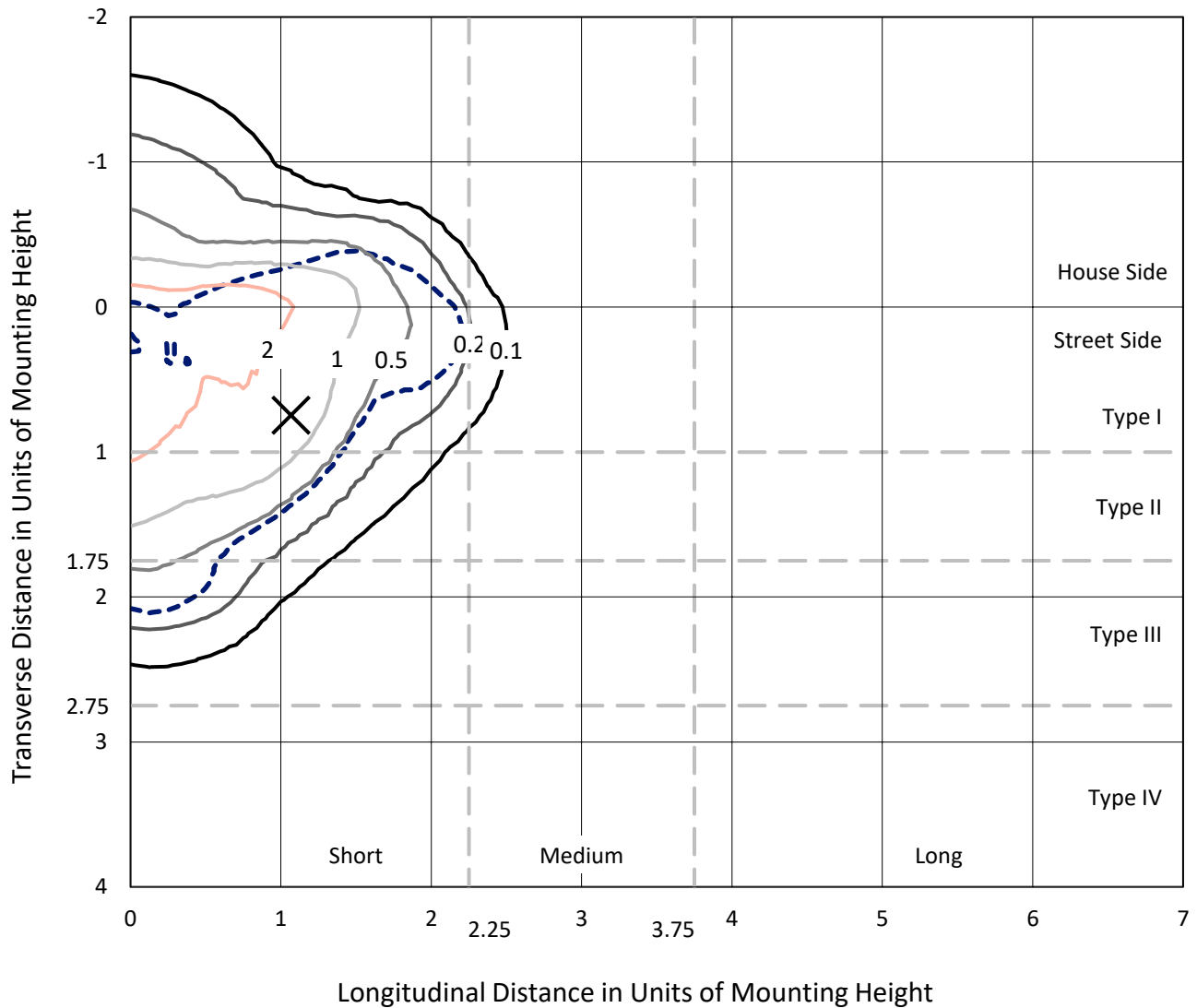
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

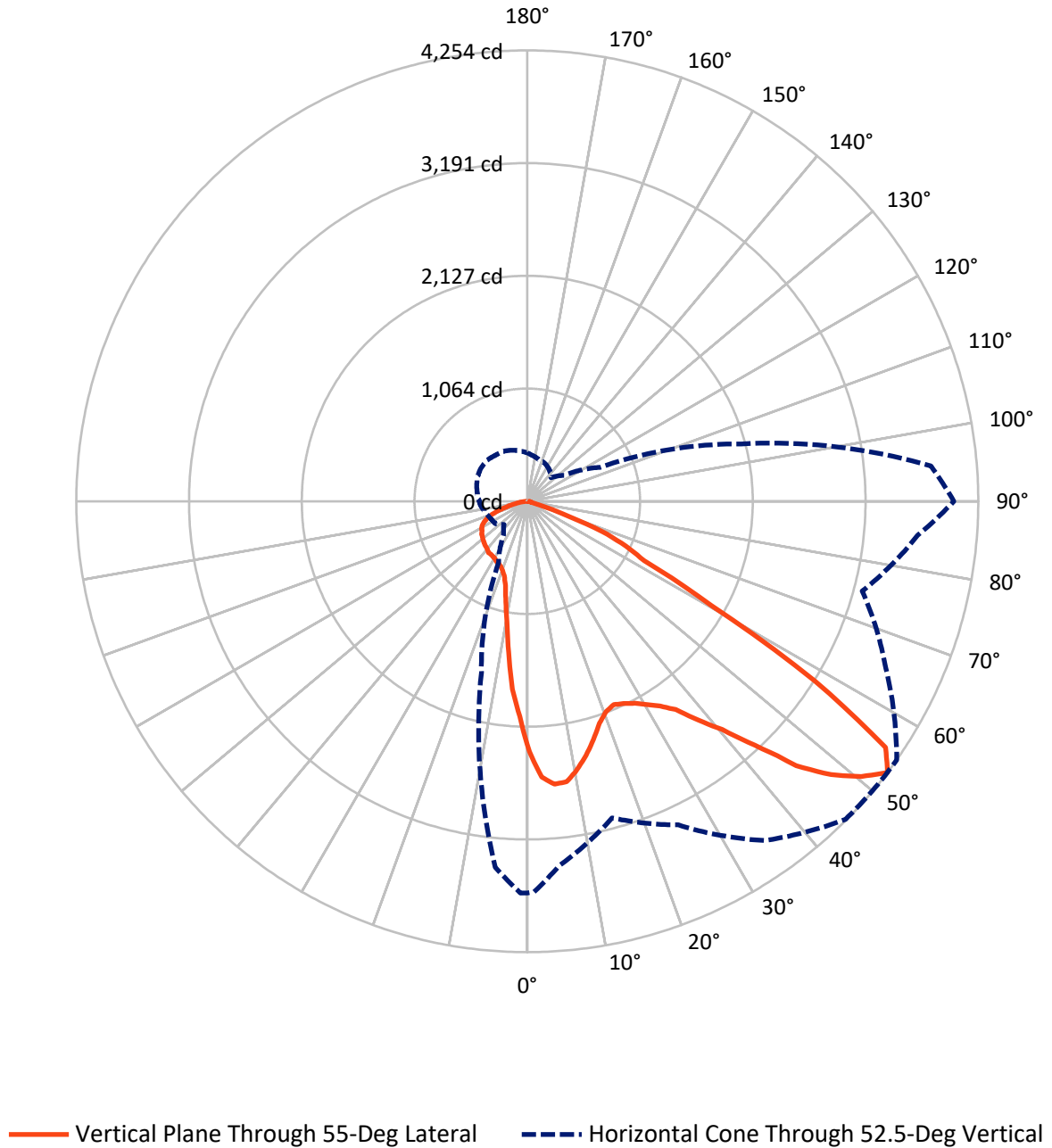
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1616.2	0.0	1616.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3681.8	0.0	3681.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	5298.0	0.0	5298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	3.4
10°-20°	389.3	7.3
20°-30°	590.3	11.1
30°-40°	852.9	16.1
40°-50°	1139.7	21.5
50°-60°	1272.2	24.0
60°-70°	697.8	13.2
70°-80°	150.9	2.8
80°-90°	24.4	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°	5298.0	100.0
0°-180°	5298.0	100.0

Coefficient of Utilization



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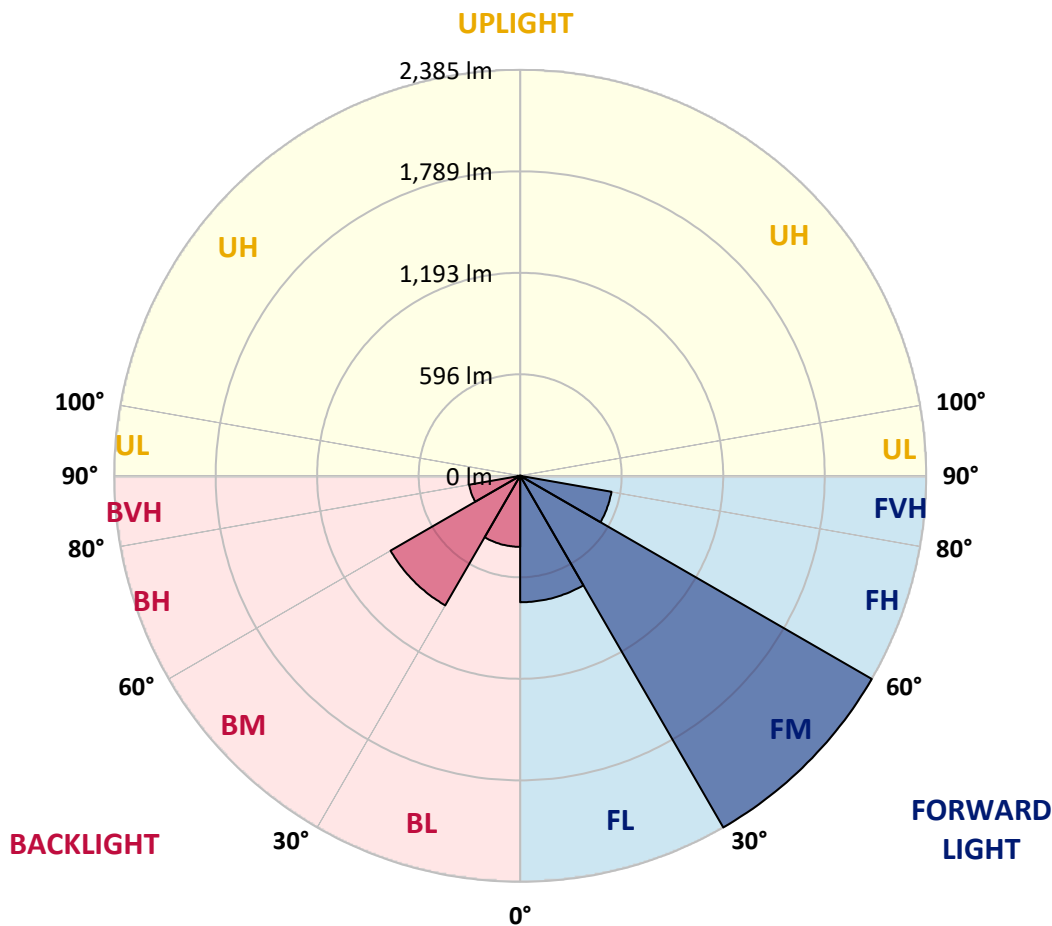
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.9	14.0			
FM (30°-60°)	2385.4	45.0			
FH (60°-80°)	544.5	10.3			G0/660
FVH (80°-90°)	9.0	0.2			G0/10
BL (0°-30°)	417.3	7.9	B1/500		
BM (30°-60°)	879.3	16.6	B1/1000		
BH (60°-80°)	304.2	5.7	B1/500		G1/500
BVH (80°-90°)	15.4	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°	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3
2.5°	2480.1	2466.2	2478.6	2537.4	2571.4	2594.6	2609.3	2607.0	2551.3	2497.1	2497.1
5°	2407.4	2389.6	2415.1	2548.2	2682.0	2693.6	2713.0	2681.3	2599.3	2500.2	2376.5
7.5°	2197.0	2210.1	2252.7	2427.5	2601.6	2689.0	2712.2	2672.0	2538.9	2354.0	2172.2
10°	2015.2	2046.1	2144.4	2333.1	2493.3	2607.0	2632.5	2576.1	2470.8	2244.2	2081.7
12.5°	1952.5	1933.2	2042.3	2231.0	2384.2	2445.3	2456.9	2460.8	2389.6	2188.5	1990.4
15°	1944.8	1957.2	2042.3	2185.4	2279.8	2282.9	2302.2	2332.4	2341.7	2226.4	2033.0
17.5°	2056.2	2041.5	2128.9	2242.6	2197.8	2152.9	2157.5	2200.9	2277.4	2258.9	2166.8
20°	2221.0	2254.2	2323.1	2311.5	2190.8	2077.1	2077.9	2118.9	2269.7	2393.5	2353.3
22.5°	2494.8	2527.3	2578.4	2438.4	2190.8	2054.7	2028.4	2084.1	2319.2	2553.6	2563.7
25°	2744.7	2804.3	2818.2	2653.4	2300.7	2075.5	2058.5	2113.4	2368.7	2709.9	2805.0
27.5°	2972.1	2993.8	3054.9	2791.9	2361.8	2089.5	2087.9	2158.3	2431.4	2788.0	3020.9
30°	3151.6	3149.3	3184.1	2879.3	2459.2	2167.6	2092.6	2225.6	2513.4	2917.2	3220.5
32.5°	3273.8	3300.1	3373.6	3000.8	2500.2	2241.9	2183.1	2304.5	2613.2	2978.3	3361.2
35°	3488.9	3534.5	3441.7	3068.1	2630.2	2315.4	2246.5	2412.1	2662.7	3044.9	3533.8
37.5°	3691.6	3656.8	3562.4	3104.4	2714.5	2451.5	2387.3	2620.1	2816.6	3189.5	3648.3
40°	3821.5	3820.8	3652.9	3133.8	2774.1	2659.6	2655.7	2831.3	3005.4	3280.8	3776.7
42.5°	3878.0	3932.2	3690.0	3130.7	2899.4	2911.8	2989.9	3147.0	3139.2	3299.4	3773.6
44°	3955.4	3987.9	3754.2	3137.7	2983.0	3082.0	3266.1	3365.9	3256.0	3289.3	3769.7
45°	3952.3	3954.6	3662.9	3147.0	3054.1	3224.3	3389.1	3557.7	3358.9	3267.6	3820.8
47.5°	3861.8	3835.5	3585.6	3078.1	3276.2	3600.3	3752.7	3854.8	3485.8	3221.2	3757.3
50°	3683.1	3652.9	3397.6	3048.7	3322.6	3833.9	4044.3	4081.5	3601.1	3175.6	3694.7
52.5°	3695.4	3686.9	3451.0	3092.8	3369.0	3907.4	4244.7	4254.0	3731.8	3271.5	3695.4
55°	3916.7	3887.3	3604.2	3147.7	3334.9	3821.5	4117.0	4100.8	3687.7	3213.5	3763.5
57.5°	3584.0	3603.4	3392.2	2930.4	2918.8	3106.7	3236.7	3196.5	3077.3	2900.2	3501.3
60°	2891.7	2946.6	2966.7	2450.7	2202.4	2105.7	2067.0	1995.9	2016.0	2382.7	3075.8
62.5°	2480.1	2477.0	2603.1	2221.8	1442.7	1240.8	1222.3	1238.5	1470.6	2345.5	3012.4
65°	1966.5	2019.1	2057.7	1882.9	1141.8	921.3	920.6	1023.5	1272.6	1960.3	2432.2
67.5°	1248.6	1317.4	1365.4	1204.5	763.5	656.0	638.2	762.0	881.9	1285.7	1464.4
70°	704.0	736.5	758.1	694.7	485.8	340.4	320.3	349.7	533.0	832.4	868.0
72.5°	271.5	286.2	315.6	317.9	183.3	109.8	89.0	106.8	224.3	329.5	314.1
75°	41.8	44.9	63.4	75.8	52.6	40.2	42.5	44.1	62.7	85.1	71.2
77.5°	20.1	20.1	19.3	22.4	26.3	28.6	30.9	34.0	37.1	41.0	39.5
80°	13.2	13.2	13.2	15.5	19.3	23.2	26.3	27.8	29.4	32.5	30.9
82.5°	8.5	8.5	8.5	11.6	15.5	19.3	20.9	24.8	27.8	32.5	30.2
85°	4.6	4.6	4.6	7.7	11.6	16.2	15.5	12.4	7.0	0.8	1.5
87.5°	1.5	1.5	1.5	1.5	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°	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3
2.5°	2432.2	2396.6	2393.5	2320.8	2255.8	2224.1	2198.5	2127.4	2142.8	2101.8	2101.1
5°	2314.6	2241.9	2124.3	2027.6	1930.9	1911.5	1827.2	1753.7	1756.0	1703.4	1712.7
7.5°	2103.4	2053.1	1910.0	1758.4	1630.0	1538.7	1459.0	1411.0	1349.9	1329.0	1318.2
10°	1969.6	1907.7	1746.8	1556.5	1412.6	1363.8	1287.3	1244.7	1182.0	1151.1	1129.4
12.5°	1910.8	1820.3	1619.1	1425.7	1329.8	1279.5	1214.5	1137.2	1062.9	1034.3	994.8
15°	1917.0	1808.7	1582.0	1373.1	1257.9	1160.4	1102.4	1016.5	940.7	890.4	861.8
17.5°	2010.6	1879.1	1599.0	1332.9	1167.3	1045.1	931.4	838.6	778.2	740.3	731.0
20°	2231.8	2053.1	1627.6	1267.9	1076.8	924.4	784.4	687.7	641.3	640.5	641.3
22.5°	2415.9	2238.8	1685.7	1229.2	986.3	769.7	630.5	599.5	590.2	609.6	611.9
25°	2664.2	2447.6	1785.4	1209.1	902.8	656.0	570.1	558.5	557.8	582.5	583.3
27.5°	2918.8	2630.2	1845.0	1150.3	817.7	597.2	533.8	531.5	543.8	570.1	567.8
30°	3092.0	2783.4	1952.5	1079.9	717.1	545.4	519.1	522.2	539.2	559.3	562.4
32.5°	3293.9	2934.2	1980.4	1041.3	655.2	502.1	483.5	490.5	512.1	543.8	560.9
35°	3525.3	3041.0	2022.9	988.6	632.0	468.8	459.5	467.2	493.6	514.4	533.0
37.5°	3696.2	3229.7	2030.7	947.6	606.5	450.2	435.5	461.1	476.5	505.9	515.2
40°	3823.1	3366.7	2050.8	922.1	586.4	426.2	426.2	443.3	464.2	491.2	509.8
42.5°	3904.3	3466.5	2065.5	898.9	547.7	419.3	415.4	432.4	460.3	486.6	495.1
44°	3953.8	3509.0	2050.8	877.3	536.9	410.8	410.8	425.5	447.1	478.1	488.1
45°	3966.2	3562.4	2018.3	876.5	523.7	400.7	399.2	427.0	441.7	479.6	485.8
47.5°	4014.2	3628.1	2022.2	851.7	492.0	376.7	403.8	416.2	429.3	462.6	483.5
50°	4012.6	3669.1	2013.7	815.4	468.8	349.7	394.5	408.5	421.6	455.6	464.2
52.5°	4023.4	3822.3	2091.8	757.3	427.0	314.9	363.6	394.5	410.8	439.4	457.2
55°	4018.0	3909.7	2169.1	714.0	368.2	294.0	337.3	373.6	396.9	427.0	435.5
57.5°	3669.9	3455.6	2007.5	632.8	304.8	269.2	300.2	352.0	381.4	412.3	423.2
60°	2998.4	2663.5	1655.5	465.7	250.6	247.5	279.3	345.0	357.4	384.5	403.0
62.5°	2771.0	2336.2	1312.8	355.9	214.3	226.7	257.6	311.8	331.1	364.4	381.4
65°	2168.4	1551.8	813.0	240.6	188.8	203.5	232.9	273.1	304.8	335.7	355.9
67.5°	1284.2	847.9	402.3	168.6	164.8	180.2	210.4	240.6	276.9	311.0	321.0
70°	699.3	417.0	171.7	128.4	140.0	153.9	183.3	204.2	239.0	265.3	282.4
72.5°	224.3	126.9	85.9	95.2	106.8	123.0	140.8	166.3	191.1	206.5	220.5
75°	54.2	53.4	61.1	66.5	77.4	89.7	104.4	117.6	136.9	151.6	164.0
77.5°	37.9	41.0	47.2	54.9	58.8	63.4	72.7	82.8	91.3	102.1	109.8
80°	29.4	31.7	36.4	40.2	44.1	48.0	52.6	56.5	61.9	68.8	72.7
82.5°	27.8	29.4	34.0	36.4	34.8	34.0	37.1	38.7	39.5	41.8	44.1
85°	2.3	0.0	1.5	5.4	13.2	19.3	20.9	20.9	20.1	21.7	21.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.1	2.3
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°	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3
2.5°	2091.8	2065.5	2075.5	2087.9	2070.1	2029.1	2040.0	2035.3	2077.1	2074.0	2115.8
5°	1753.7	1712.7	1717.4	1777.7	1758.4	1779.3	1737.5	1732.1	1739.8	1743.7	1750.6
7.5°	1342.2	1336.8	1383.2	1434.2	1458.2	1433.5	1392.5	1383.2	1374.7	1357.7	1396.3
10°	1095.4	1097.0	1093.9	1132.5	1159.6	1154.2	1129.4	1126.3	1110.1	1103.9	1125.6
12.5°	977.8	956.9	946.9	934.5	955.4	969.3	958.5	950.7	951.5	959.3	962.3
15°	864.1	850.9	829.3	815.4	825.4	818.5	814.6	830.1	826.2	824.6	843.2
17.5°	736.5	747.3	745.7	730.3	743.4	738.0	737.2	726.4	711.7	700.9	707.1
20°	652.1	672.2	687.7	688.5	695.5	694.7	683.1	649.8	639.0	636.7	638.2
22.5°	622.0	632.8	651.4	677.7	677.7	665.3	651.4	612.7	602.6	591.8	587.2
25°	598.0	618.9	642.9	645.9	658.3	646.7	624.3	604.9	584.1	569.4	569.4
27.5°	585.6	608.8	626.6	632.0	649.0	639.8	616.6	591.8	567.0	566.3	553.1
30°	580.2	601.9	613.5	626.6	634.3	619.6	612.7	586.4	561.6	555.4	533.8
32.5°	563.9	594.9	616.6	613.5	619.6	613.5	603.4	581.7	553.9	540.0	537.6
35°	545.4	576.3	599.5	615.8	619.6	606.5	600.3	570.9	533.0	526.0	502.1
37.5°	535.3	553.9	582.5	608.8	614.2	607.3	586.4	556.2	518.3	510.6	489.7
40°	522.9	546.9	569.4	591.0	607.3	590.2	566.3	536.9	519.9	496.6	490.5
42.5°	513.7	540.7	559.3	583.3	601.9	579.4	551.6	531.5	507.5	492.0	474.2
44°	510.6	535.3	547.7	577.1	592.6	575.6	552.3	531.5	503.6	489.7	474.2
45°	499.7	533.8	546.9	573.2	586.4	572.5	543.1	522.2	502.1	485.0	468.8
47.5°	488.9	512.1	534.6	555.4	564.7	560.1	535.3	509.8	485.8	475.8	460.3
50°	485.8	509.0	529.9	549.2	560.1	550.8	528.4	503.6	475.8	459.5	446.4
52.5°	470.3	499.0	522.2	528.4	542.3	536.9	519.9	492.8	466.5	452.6	441.7
55°	447.9	478.1	509.8	517.5	537.6	529.1	503.6	478.1	455.6	434.8	420.8
57.5°	439.4	468.8	499.7	509.8	522.2	508.2	502.1	475.0	439.4	428.6	406.9
60°	417.7	454.9	480.4	503.6	504.4	500.5	489.7	458.7	429.3	409.2	393.8
62.5°	400.7	435.5	455.6	477.3	490.5	479.6	468.8	440.2	408.5	386.0	368.2
65°	376.0	407.7	424.7	437.9	452.6	451.0	432.4	411.5	378.3	360.5	343.5
67.5°	338.1	365.9	389.1	401.5	410.8	408.5	394.5	379.8	345.8	328.0	315.6
70°	292.4	321.0	335.7	342.7	352.0	356.6	345.8	338.8	308.7	285.5	273.9
72.5°	235.2	253.7	275.4	281.6	285.5	288.5	288.5	282.4	251.4	242.1	222.0
75°	173.3	188.0	204.2	204.2	211.2	212.0	213.5	209.6	186.4	174.1	169.4
77.5°	117.6	128.4	141.6	147.0	151.6	150.9	150.1	139.2	126.9	121.5	116.8
80°	76.6	87.4	93.6	100.6	105.2	104.4	106.0	98.2	92.8	83.5	85.1
82.5°	45.6	54.2	60.3	68.8	68.8	71.2	71.2	68.8	63.4	58.8	58.8
85°	21.7	28.6	32.5	37.9	41.0	41.8	37.1	31.7	26.3	24.0	26.3
87.5°	3.9	5.4	7.7	7.0	8.5	7.7	7.7	7.7	7.7	6.2	7.0
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-SA1C-740-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3	2363.3
2.5°	2100.3	2139.0	2166.1	2210.9	2288.3	2350.2	2413.6	2460.8	2466.2	2480.1
5°	1776.2	1797.0	1865.9	1955.6	2019.1	2123.5	2190.8	2313.0	2358.7	2407.4
7.5°	1387.0	1421.1	1513.1	1573.5	1712.7	1843.5	1978.8	2129.7	2190.0	2197.0
10°	1169.7	1219.2	1281.8	1378.5	1454.3	1599.8	1768.4	1936.3	2003.6	2015.2
12.5°	1027.3	1090.8	1174.3	1243.9	1316.7	1443.5	1605.2	1812.5	1899.9	1952.5
15°	890.4	956.2	1048.2	1144.9	1209.1	1360.7	1551.0	1784.7	1898.4	1944.8
17.5°	749.6	810.7	886.5	991.0	1120.2	1290.3	1542.5	1877.5	2002.1	2056.2
20°	628.9	663.0	751.2	858.7	1020.4	1218.4	1545.6	2014.4	2197.0	2221.0
22.5°	581.7	589.5	624.3	723.3	900.5	1144.9	1600.6	2208.6	2415.9	2494.8
25°	545.4	543.8	553.1	619.6	813.0	1116.3	1654.7	2387.3	2658.8	2744.7
27.5°	525.3	509.8	510.6	573.2	751.2	1069.9	1724.3	2592.3	2934.2	2972.1
30°	515.2	512.1	502.8	528.4	683.9	1000.3	1735.9	2794.2	3096.7	3151.6
32.5°	509.0	478.9	467.2	476.5	620.4	924.4	1779.3	2927.3	3297.8	3273.8
35°	478.1	451.0	443.3	452.6	575.6	881.9	1750.6	3043.3	3448.7	3488.9
37.5°	466.5	442.5	427.0	419.3	533.8	846.3	1735.9	3222.0	3594.9	3691.6
40°	455.6	430.1	411.5	403.8	501.3	799.1	1731.3	3359.7	3763.5	3821.5
42.5°	443.3	427.0	406.1	392.2	461.8	751.9	1677.9	3402.2	3815.3	3878.0
44°	439.4	414.6	393.0	388.3	446.4	727.9	1667.1	3440.9	3860.2	3955.4
45°	435.5	412.3	387.6	381.4	440.9	714.8	1652.4	3450.2	3934.5	3952.3
47.5°	424.7	410.0	386.0	369.0	429.3	686.2	1608.3	3397.6	3858.7	3861.8
50°	416.2	399.2	374.4	341.2	413.9	662.2	1628.4	3378.3	3676.1	3683.1
52.5°	406.9	381.4	367.5	310.2	388.3	642.1	1671.0	3465.7	3697.0	3695.4
55°	396.1	368.2	334.2	283.9	345.8	616.6	1773.8	3638.2	3890.4	3916.7
57.5°	379.1	355.1	306.3	260.7	297.1	567.8	1740.6	3307.9	3579.4	3584.0
60°	356.6	334.2	277.7	242.9	243.7	447.9	1556.5	2577.6	2824.4	2891.7
62.5°	335.0	322.6	253.7	217.4	207.3	356.6	1315.9	2142.1	2424.4	2480.1
65°	309.4	279.3	232.9	198.0	177.9	249.9	932.2	1600.6	1891.4	1966.5
67.5°	276.9	244.5	205.0	174.1	152.4	167.1	481.2	909.7	1204.5	1248.6
70°	242.1	212.0	172.5	147.0	123.0	115.3	212.0	434.0	658.3	704.0
72.5°	198.8	171.0	137.7	116.0	92.1	79.7	71.2	116.0	233.6	271.5
75°	143.9	124.5	103.7	82.8	65.0	51.1	41.8	34.8	38.7	41.8
77.5°	106.0	90.5	76.6	58.8	45.6	36.4	28.6	21.7	20.9	20.1
80°	82.8	73.5	61.1	47.2	35.6	27.1	20.1	14.7	13.2	13.2
82.5°	65.0	60.3	50.3	38.7	29.4	21.7	14.7	10.1	8.5	8.5
85°	24.8	24.8	36.4	31.7	22.4	15.5	10.1	5.4	4.6	4.6
87.5°	6.2	6.2	6.2	6.2	5.4	4.6	4.6	2.3	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)