

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: P527066

Luminaire Tested: **GALN-SA2A-740-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527066
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-SA2A-740-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH 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: 6848.9 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

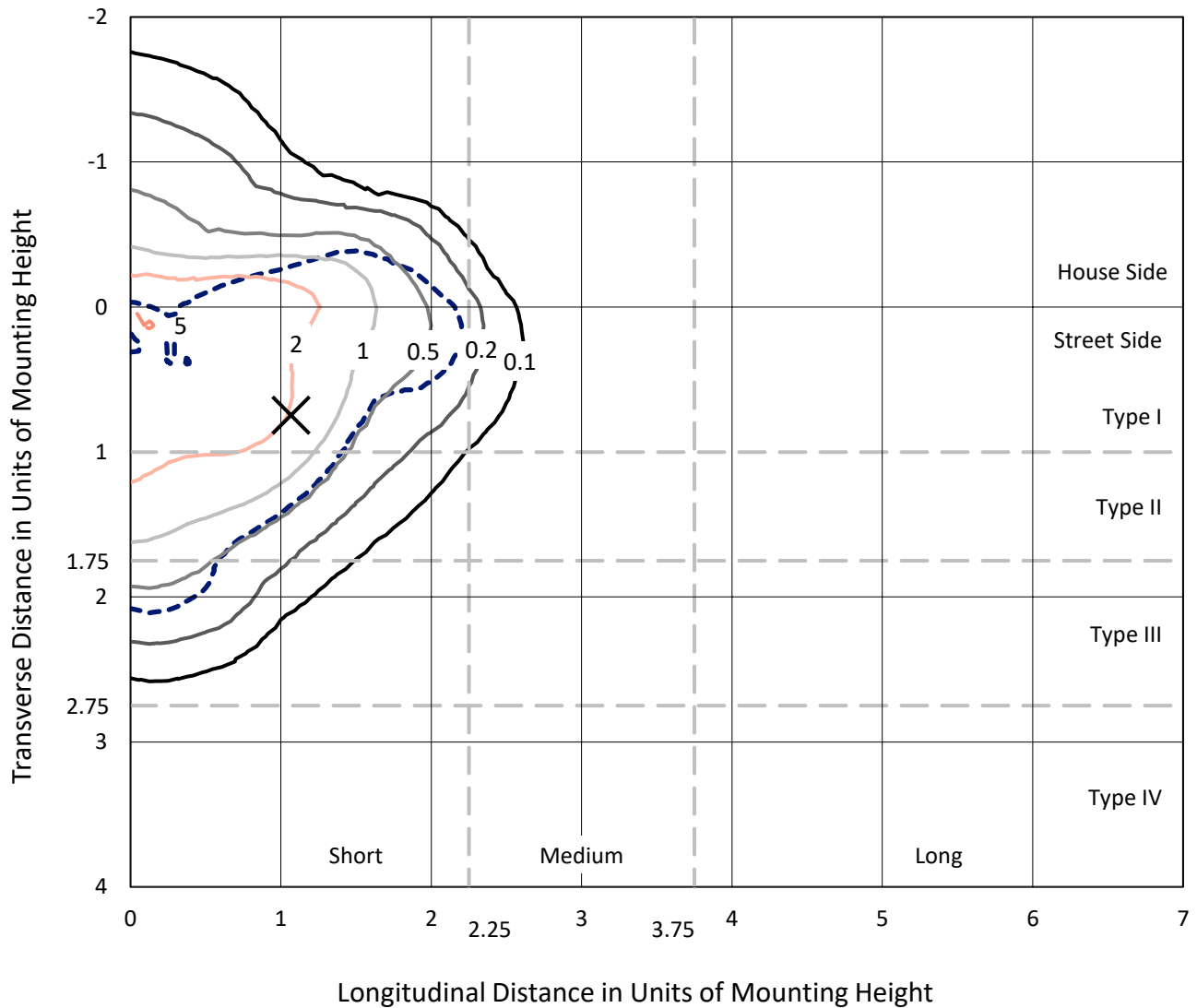
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

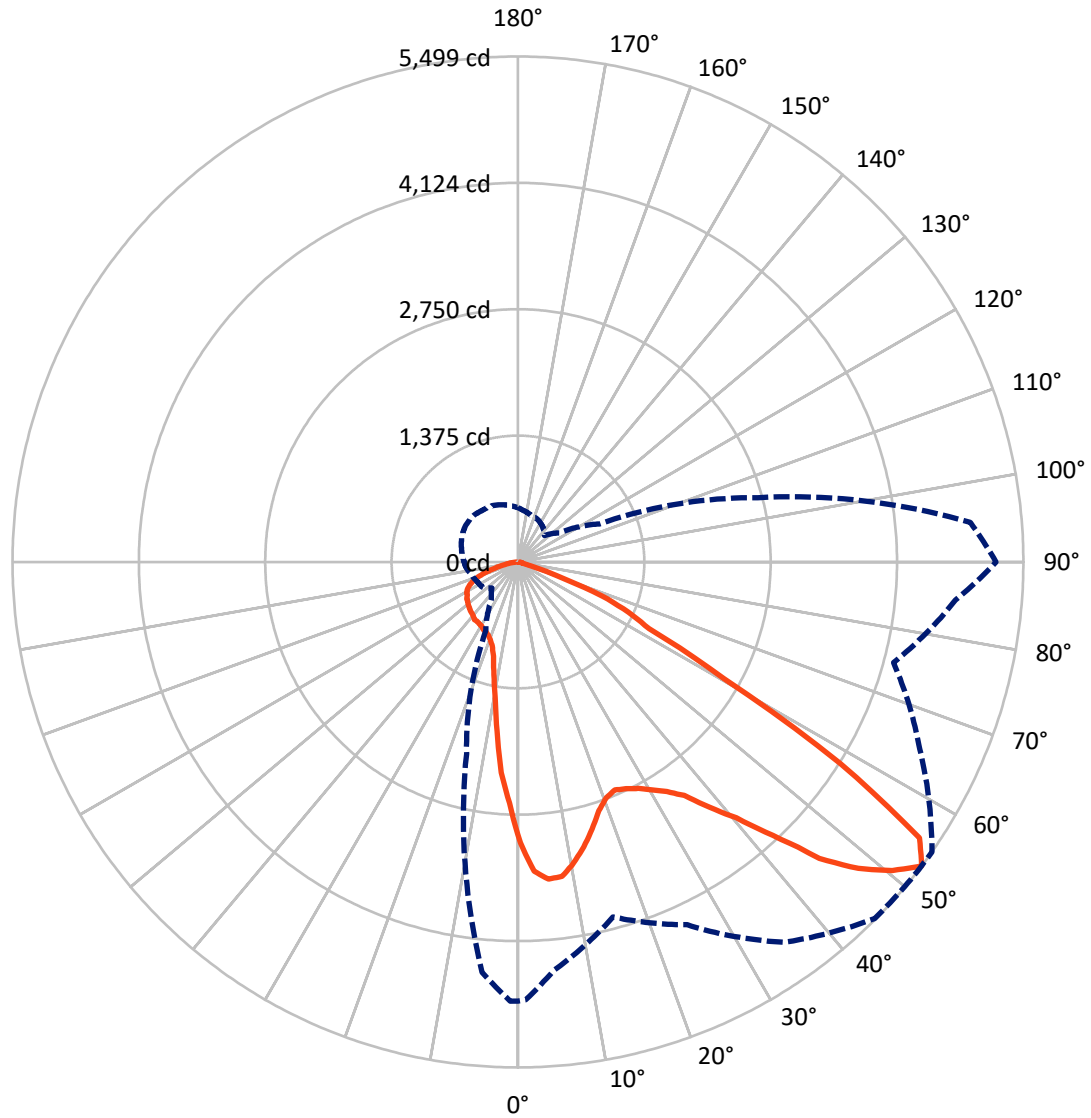
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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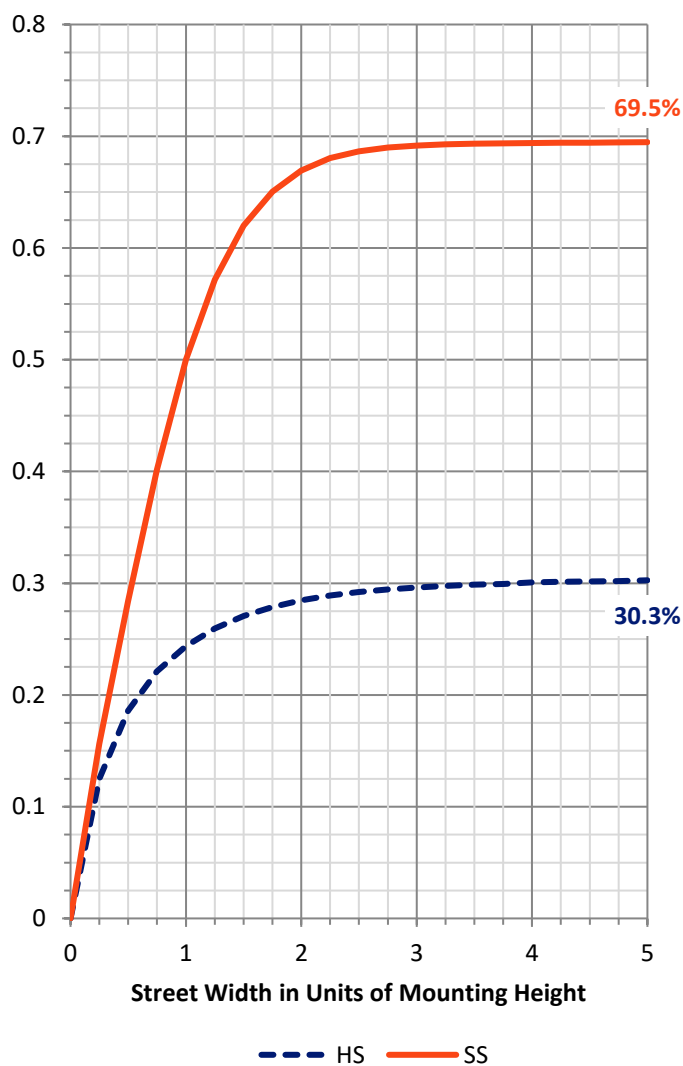
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2089.3	0.0	2089.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4759.7	0.0	4759.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	6848.9	0.0	6848.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	3.4
10°-20°	503.3	7.3
20°-30°	763.1	11.1
30°-40°	1102.6	16.1
40°-50°	1473.3	21.5
50°-60°	1644.6	24.0
60°-70°	902.1	13.2
70°-80°	195.0	2.8
80°-90°	31.5	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°	6848.9	100.0
0°-180°	6848.9	100.0

Coefficient of Utilization



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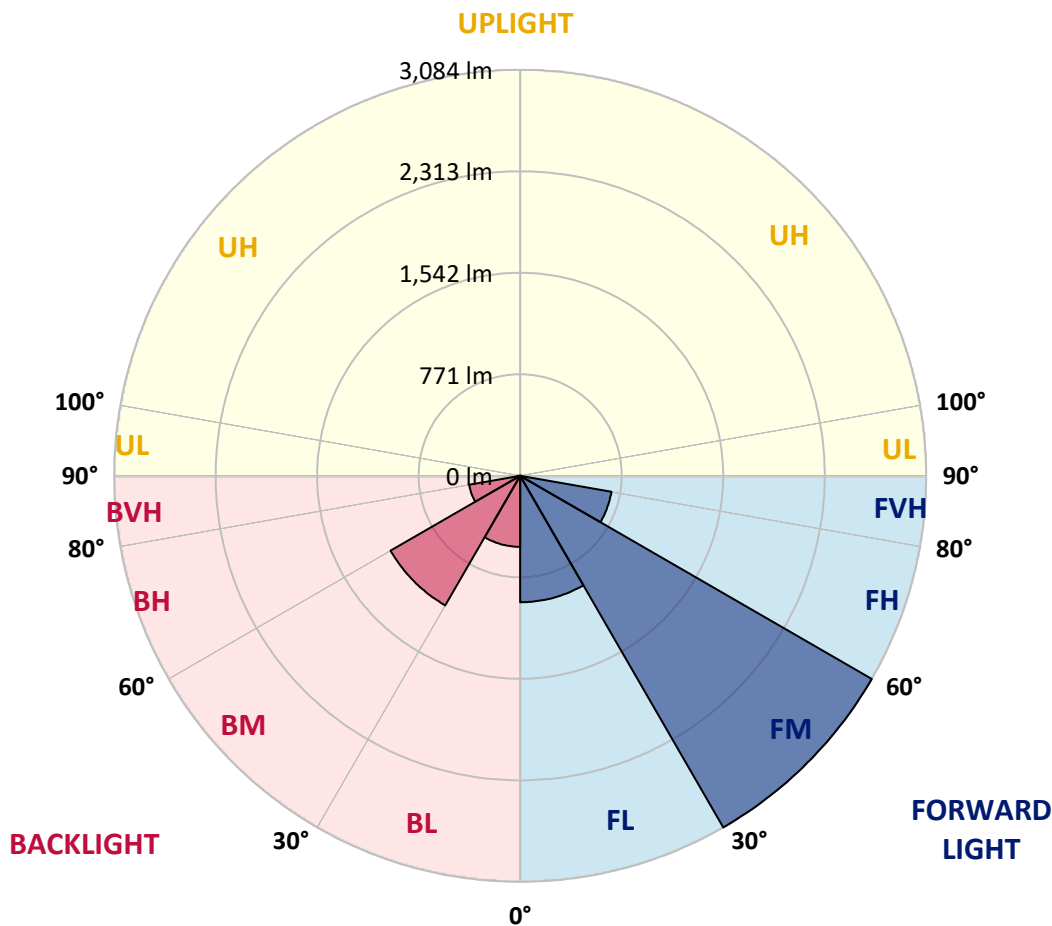
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	960.4	14.0			
FM (30°-60°)	3083.7	45.0			
FH (60°-80°)	703.9	10.3			G1/1800
FVH (80°-90°)	11.7	0.2			G1/100
BL (0°-30°)	539.4	7.9	B2/1000		
BM (30°-60°)	1136.7	16.6	B2/2500		
BH (60°-80°)	393.2	5.7	B1/500		G1/500
BVH (80°-90°)	19.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2
2.5°	3206.2	3188.2	3204.2	3280.2	3324.2	3354.2	3373.2	3370.2	3298.2	3228.2	3228.2
5°	3112.2	3089.2	3122.2	3294.2	3467.2	3482.2	3507.2	3466.2	3360.2	3232.2	3072.2
7.5°	2840.2	2857.2	2912.2	3138.2	3363.2	3476.2	3506.2	3454.2	3282.2	3043.2	2808.2
10°	2605.2	2645.2	2772.2	3016.2	3223.2	3370.2	3403.2	3330.2	3194.2	2901.2	2691.2
12.5°	2524.2	2499.2	2640.2	2884.2	3082.2	3161.2	3176.2	3181.2	3089.2	2829.2	2573.2
15°	2514.2	2530.2	2640.2	2825.2	2947.2	2951.2	2976.2	3015.2	3027.2	2878.2	2628.2
17.5°	2658.2	2639.2	2752.2	2899.2	2841.2	2783.2	2789.2	2845.2	2944.2	2920.2	2801.2
20°	2871.2	2914.2	3003.2	2988.2	2832.2	2685.2	2686.2	2739.2	2934.2	3094.2	3042.2
22.5°	3225.2	3267.2	3333.2	3152.2	2832.2	2656.2	2622.2	2694.2	2998.2	3301.2	3314.2
25°	3548.2	3625.2	3643.2	3430.2	2974.2	2683.2	2661.2	2732.2	3062.2	3503.2	3626.2
27.5°	3842.2	3870.2	3949.2	3609.2	3053.2	2701.2	2699.2	2790.2	3143.2	3604.2	3905.2
30°	4074.2	4071.2	4116.2	3722.2	3179.2	2802.2	2705.2	2877.2	3249.2	3771.2	4163.3
32.5°	4232.3	4266.3	4361.3	3879.2	3232.2	2898.2	2822.2	2979.2	3378.2	3850.2	4345.3
35°	4510.3	4569.3	4449.3	3966.2	3400.2	2993.2	2904.2	3118.2	3442.2	3936.2	4568.3
37.5°	4772.3	4727.3	4605.3	4013.2	3509.2	3169.2	3086.2	3387.2	3641.2	4123.2	4716.3
40°	4940.3	4939.3	4722.3	4051.2	3586.2	3438.2	3433.2	3660.2	3885.2	4241.3	4882.3
42.5°	5013.3	5083.3	4770.3	4047.2	3748.2	3764.2	3865.2	4068.2	4058.2	4265.3	4878.3
44°	5113.3	5155.3	4853.3	4056.2	3856.2	3984.2	4222.3	4351.3	4209.3	4252.3	4873.3
45°	5109.3	5112.3	4735.3	4068.2	3948.2	4168.3	4381.3	4599.3	4342.3	4224.3	4939.3
47.5°	4992.3	4958.3	4635.3	3979.2	4235.3	4654.3	4851.3	4983.3	4506.3	4164.3	4857.3
50°	4761.3	4722.3	4392.3	3941.2	4295.3	4956.3	5228.3	5276.3	4655.3	4105.2	4776.3
52.5°	4777.3	4766.3	4461.3	3998.2	4355.3	5051.3	5487.3	5499.3	4824.3	4229.3	4777.3
55°	5063.3	5025.3	4659.3	4069.2	4311.3	4940.3	5322.3	5301.3	4767.3	4154.2	4865.3
57.5°	4633.3	4658.3	4385.3	3788.2	3773.2	4016.2	4184.3	4132.2	3978.2	3749.2	4526.3
60°	3738.2	3809.2	3835.2	3168.2	2847.2	2722.2	2672.2	2580.2	2606.2	3080.2	3976.2
62.5°	3206.2	3202.2	3365.2	2872.2	1865.1	1604.1	1580.1	1601.1	1901.1	3032.2	3894.2
65°	2542.2	2610.2	2660.2	2434.1	1476.1	1191.1	1190.1	1323.1	1645.1	2534.2	3144.2
67.5°	1614.1	1703.1	1765.1	1557.1	987.1	848.1	825.0	985.1	1140.1	1662.1	1893.1
70°	910.1	952.1	980.1	898.1	628.0	440.0	414.0	452.0	689.0	1076.1	1122.1
72.5°	351.0	370.0	408.0	411.0	237.0	142.0	115.0	138.0	290.0	426.0	406.0
75°	54.0	58.0	82.0	98.0	68.0	52.0	55.0	57.0	81.0	110.0	92.0
77.5°	26.0	26.0	25.0	29.0	34.0	37.0	40.0	44.0	48.0	53.0	51.0
80°	17.0	17.0	17.0	20.0	25.0	30.0	34.0	36.0	38.0	42.0	40.0
82.5°	11.0	11.0	11.0	15.0	20.0	25.0	27.0	32.0	36.0	42.0	39.0
85°	6.0	6.0	6.0	10.0	15.0	21.0	20.0	16.0	9.0	1.0	2.0
87.5°	2.0	2.0	2.0	2.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2
2.5°	3144.2	3098.2	3094.2	3000.2	2916.2	2875.2	2842.2	2750.2	2770.2	2717.2	2716.2
5°	2992.2	2898.2	2746.2	2621.2	2496.2	2471.1	2362.1	2267.1	2270.1	2202.1	2214.1
7.5°	2719.2	2654.2	2469.1	2273.1	2107.1	1989.1	1886.1	1824.1	1745.1	1718.1	1704.1
10°	2546.2	2466.1	2258.1	2012.1	1826.1	1763.1	1664.1	1609.1	1528.1	1488.1	1460.1
12.5°	2470.1	2353.1	2093.1	1843.1	1719.1	1654.1	1570.1	1470.1	1374.1	1337.1	1286.1
15°	2478.1	2338.1	2045.1	1775.1	1626.1	1500.1	1425.1	1314.1	1216.1	1151.1	1114.1
17.5°	2599.2	2429.1	2067.1	1723.1	1509.1	1351.1	1204.1	1084.1	1006.1	957.1	945.1
20°	2885.2	2654.2	2104.1	1639.1	1392.1	1195.1	1014.1	889.1	829.0	828.0	829.0
22.5°	3123.2	2894.2	2179.1	1589.1	1275.1	995.1	815.0	775.0	763.0	788.0	791.0
25°	3444.2	3164.2	2308.1	1563.1	1167.1	848.1	737.0	722.0	721.0	753.0	754.0
27.5°	3773.2	3400.2	2385.1	1487.1	1057.1	772.0	690.0	687.0	703.0	737.0	734.0
30°	3997.2	3598.2	2524.2	1396.1	927.1	705.0	671.0	675.0	697.0	723.0	727.0
32.5°	4258.3	3793.2	2560.2	1346.1	847.1	649.0	625.0	634.0	662.0	703.0	725.0
35°	4557.3	3931.2	2615.2	1278.1	817.0	606.0	594.0	604.0	638.0	665.0	689.0
37.5°	4778.3	4175.3	2625.2	1225.1	784.0	582.0	563.0	596.0	616.0	654.0	666.0
40°	4942.3	4352.3	2651.2	1192.1	758.0	551.0	551.0	573.0	600.0	635.0	659.0
42.5°	5047.3	4481.3	2670.2	1162.1	708.0	542.0	537.0	559.0	595.0	629.0	640.0
44°	5111.3	4536.3	2651.2	1134.1	694.0	531.0	531.0	550.0	578.0	618.0	631.0
45°	5127.3	4605.3	2609.2	1133.1	677.0	518.0	516.0	552.0	571.0	620.0	628.0
47.5°	5189.3	4690.3	2614.2	1101.1	636.0	487.0	522.0	538.0	555.0	598.0	625.0
50°	5187.3	4743.3	2603.2	1054.1	606.0	452.0	510.0	528.0	545.0	589.0	600.0
52.5°	5201.3	4941.3	2704.2	979.1	552.0	407.0	470.0	510.0	531.0	568.0	591.0
55°	5194.3	5054.3	2804.2	923.1	476.0	380.0	436.0	483.0	513.0	552.0	563.0
57.5°	4744.3	4467.3	2595.2	818.0	394.0	348.0	388.0	455.0	493.0	533.0	547.0
60°	3876.2	3443.2	2140.1	602.0	324.0	320.0	361.0	446.0	462.0	497.0	521.0
62.5°	3582.2	3020.2	1697.1	460.0	277.0	293.0	333.0	403.0	428.0	471.0	493.0
65°	2803.2	2006.1	1051.1	311.0	244.0	263.0	301.0	353.0	394.0	434.0	460.0
67.5°	1660.1	1096.1	520.0	218.0	213.0	233.0	272.0	311.0	358.0	402.0	415.0
70°	904.1	539.0	222.0	166.0	181.0	199.0	237.0	264.0	309.0	343.0	365.0
72.5°	290.0	164.0	111.0	123.0	138.0	159.0	182.0	215.0	247.0	267.0	285.0
75°	70.0	69.0	79.0	86.0	100.0	116.0	135.0	152.0	177.0	196.0	212.0
77.5°	49.0	53.0	61.0	71.0	76.0	82.0	94.0	107.0	118.0	132.0	142.0
80°	38.0	41.0	47.0	52.0	57.0	62.0	68.0	73.0	80.0	89.0	94.0
82.5°	36.0	38.0	44.0	47.0	45.0	44.0	48.0	50.0	51.0	54.0	57.0
85°	3.0	0.0	2.0	7.0	17.0	25.0	27.0	27.0	26.0	28.0	28.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.0	3.0
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°	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2
2.5°	2704.2	2670.2	2683.2	2699.2	2676.2	2623.2	2637.2	2631.2	2685.2	2681.2	2735.2
5°	2267.1	2214.1	2220.1	2298.1	2273.1	2300.1	2246.1	2239.1	2249.1	2254.1	2263.1
7.5°	1735.1	1728.1	1788.1	1854.1	1885.1	1853.1	1800.1	1788.1	1777.1	1755.1	1805.1
10°	1416.1	1418.1	1414.1	1464.1	1499.1	1492.1	1460.1	1456.1	1435.1	1427.1	1455.1
12.5°	1264.1	1237.1	1224.1	1208.1	1235.1	1253.1	1239.1	1229.1	1230.1	1240.1	1244.1
15°	1117.1	1100.1	1072.1	1054.1	1067.1	1058.1	1053.1	1073.1	1068.1	1066.1	1090.1
17.5°	952.1	966.1	964.1	944.1	961.1	954.1	953.1	939.1	920.1	906.1	914.1
20°	843.1	869.1	889.1	890.1	899.1	898.1	883.1	840.1	826.0	823.0	825.0
22.5°	804.0	818.0	842.1	876.1	876.1	860.1	842.1	792.0	779.0	765.0	759.0
25°	773.0	800.0	831.0	835.1	851.1	836.1	807.0	782.0	755.0	736.0	736.0
27.5°	757.0	787.0	810.0	817.0	839.1	827.0	797.0	765.0	733.0	732.0	715.0
30°	750.0	778.0	793.0	810.0	820.0	801.0	792.0	758.0	726.0	718.0	690.0
32.5°	729.0	769.0	797.0	793.0	801.0	793.0	780.0	752.0	716.0	698.0	695.0
35°	705.0	745.0	775.0	796.0	801.0	784.0	776.0	738.0	689.0	680.0	649.0
37.5°	692.0	716.0	753.0	787.0	794.0	785.0	758.0	719.0	670.0	660.0	633.0
40°	676.0	707.0	736.0	764.0	785.0	763.0	732.0	694.0	672.0	642.0	634.0
42.5°	664.0	699.0	723.0	754.0	778.0	749.0	713.0	687.0	656.0	636.0	613.0
44°	660.0	692.0	708.0	746.0	766.0	744.0	714.0	687.0	651.0	633.0	613.0
45°	646.0	690.0	707.0	741.0	758.0	740.0	702.0	675.0	649.0	627.0	606.0
47.5°	632.0	662.0	691.0	718.0	730.0	724.0	692.0	659.0	628.0	615.0	595.0
50°	628.0	658.0	685.0	710.0	724.0	712.0	683.0	651.0	615.0	594.0	577.0
52.5°	608.0	645.0	675.0	683.0	701.0	694.0	672.0	637.0	603.0	585.0	571.0
55°	579.0	618.0	659.0	669.0	695.0	684.0	651.0	618.0	589.0	562.0	544.0
57.5°	568.0	606.0	646.0	659.0	675.0	657.0	649.0	614.0	568.0	554.0	526.0
60°	540.0	588.0	621.0	651.0	652.0	647.0	633.0	593.0	555.0	529.0	509.0
62.5°	518.0	563.0	589.0	617.0	634.0	620.0	606.0	569.0	528.0	499.0	476.0
65°	486.0	527.0	549.0	566.0	585.0	583.0	559.0	532.0	489.0	466.0	444.0
67.5°	437.0	473.0	503.0	519.0	531.0	528.0	510.0	491.0	447.0	424.0	408.0
70°	378.0	415.0	434.0	443.0	455.0	461.0	447.0	438.0	399.0	369.0	354.0
72.5°	304.0	328.0	356.0	364.0	369.0	373.0	373.0	365.0	325.0	313.0	287.0
75°	224.0	243.0	264.0	264.0	273.0	274.0	276.0	271.0	241.0	225.0	219.0
77.5°	152.0	166.0	183.0	190.0	196.0	195.0	194.0	180.0	164.0	157.0	151.0
80°	99.0	113.0	121.0	130.0	136.0	135.0	137.0	127.0	120.0	108.0	110.0
82.5°	59.0	70.0	78.0	89.0	89.0	92.0	92.0	89.0	82.0	76.0	76.0
85°	28.0	37.0	42.0	49.0	53.0	54.0	48.0	41.0	34.0	31.0	34.0
87.5°	5.0	7.0	10.0	9.0	11.0	10.0	10.0	10.0	10.0	8.0	9.0
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: P527066

CATALOG NUMBER: GALN-SA2A-740-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2	3055.2
2.5°	2715.2	2765.2	2800.2	2858.2	2958.2	3038.2	3120.2	3181.2	3188.2	3206.2
5°	2296.1	2323.1	2412.1	2528.2	2610.2	2745.2	2832.2	2990.2	3049.2	3112.2
7.5°	1793.1	1837.1	1956.1	2034.1	2214.1	2383.1	2558.2	2753.2	2831.2	2840.2
10°	1512.1	1576.1	1657.1	1782.1	1880.1	2068.1	2286.1	2503.2	2590.2	2605.2
12.5°	1328.1	1410.1	1518.1	1608.1	1702.1	1866.1	2075.1	2343.1	2456.1	2524.2
15°	1151.1	1236.1	1355.1	1480.1	1563.1	1759.1	2005.1	2307.1	2454.1	2514.2
17.5°	969.1	1048.1	1146.1	1281.1	1448.1	1668.1	1994.1	2427.1	2588.2	2658.2
20°	813.0	857.1	971.1	1110.1	1319.1	1575.1	1998.1	2604.2	2840.2	2871.2
22.5°	752.0	762.0	807.0	935.1	1164.1	1480.1	2069.1	2855.2	3123.2	3225.2
25°	705.0	703.0	715.0	801.0	1051.1	1443.1	2139.1	3086.2	3437.2	3548.2
27.5°	679.0	659.0	660.0	741.0	971.1	1383.1	2229.1	3351.2	3793.2	3842.2
30°	666.0	662.0	650.0	683.0	884.1	1293.1	2244.1	3612.2	4003.2	4074.2
32.5°	658.0	619.0	604.0	616.0	802.0	1195.1	2300.1	3784.2	4263.3	4232.3
35°	618.0	583.0	573.0	585.0	744.0	1140.1	2263.1	3934.2	4458.3	4510.3
37.5°	603.0	572.0	552.0	542.0	690.0	1094.1	2244.1	4165.3	4647.3	4772.3
40°	589.0	556.0	532.0	522.0	648.0	1033.1	2238.1	4343.3	4865.3	4940.3
42.5°	573.0	552.0	525.0	507.0	597.0	972.1	2169.1	4398.3	4932.3	5013.3
44°	568.0	536.0	508.0	502.0	577.0	941.1	2155.1	4448.3	4990.3	5113.3
45°	563.0	533.0	501.0	493.0	570.0	924.1	2136.1	4460.3	5086.3	5109.3
47.5°	549.0	530.0	499.0	477.0	555.0	887.1	2079.1	4392.3	4988.3	4992.3
50°	538.0	516.0	484.0	441.0	535.0	856.1	2105.1	4367.3	4752.3	4761.3
52.5°	526.0	493.0	475.0	401.0	502.0	830.0	2160.1	4480.3	4779.3	4777.3
55°	512.0	476.0	432.0	367.0	447.0	797.0	2293.1	4703.3	5029.3	5063.3
57.5°	490.0	459.0	396.0	337.0	384.0	734.0	2250.1	4276.3	4627.3	4633.3
60°	461.0	432.0	359.0	314.0	315.0	579.0	2012.1	3332.2	3651.2	3738.2
62.5°	433.0	417.0	328.0	281.0	268.0	461.0	1701.1	2769.2	3134.2	3206.2
65°	400.0	361.0	301.0	256.0	230.0	323.0	1205.1	2069.1	2445.1	2542.2
67.5°	358.0	316.0	265.0	225.0	197.0	216.0	622.0	1176.1	1557.1	1614.1
70°	313.0	274.0	223.0	190.0	159.0	149.0	274.0	561.0	851.1	910.1
72.5°	257.0	221.0	178.0	150.0	119.0	103.0	92.0	150.0	302.0	351.0
75°	186.0	161.0	134.0	107.0	84.0	66.0	54.0	45.0	50.0	54.0
77.5°	137.0	117.0	99.0	76.0	59.0	47.0	37.0	28.0	27.0	26.0
80°	107.0	95.0	79.0	61.0	46.0	35.0	26.0	19.0	17.0	17.0
82.5°	84.0	78.0	65.0	50.0	38.0	28.0	19.0	13.0	11.0	11.0
85°	32.0	32.0	47.0	41.0	29.0	20.0	13.0	7.0	6.0	6.0
87.5°	8.0	8.0	8.0	8.0	7.0	6.0	6.0	3.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)