

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: P451217

Luminaire Tested: **GALN-SA2A-750-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451217
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-SA2A-750-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6604 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

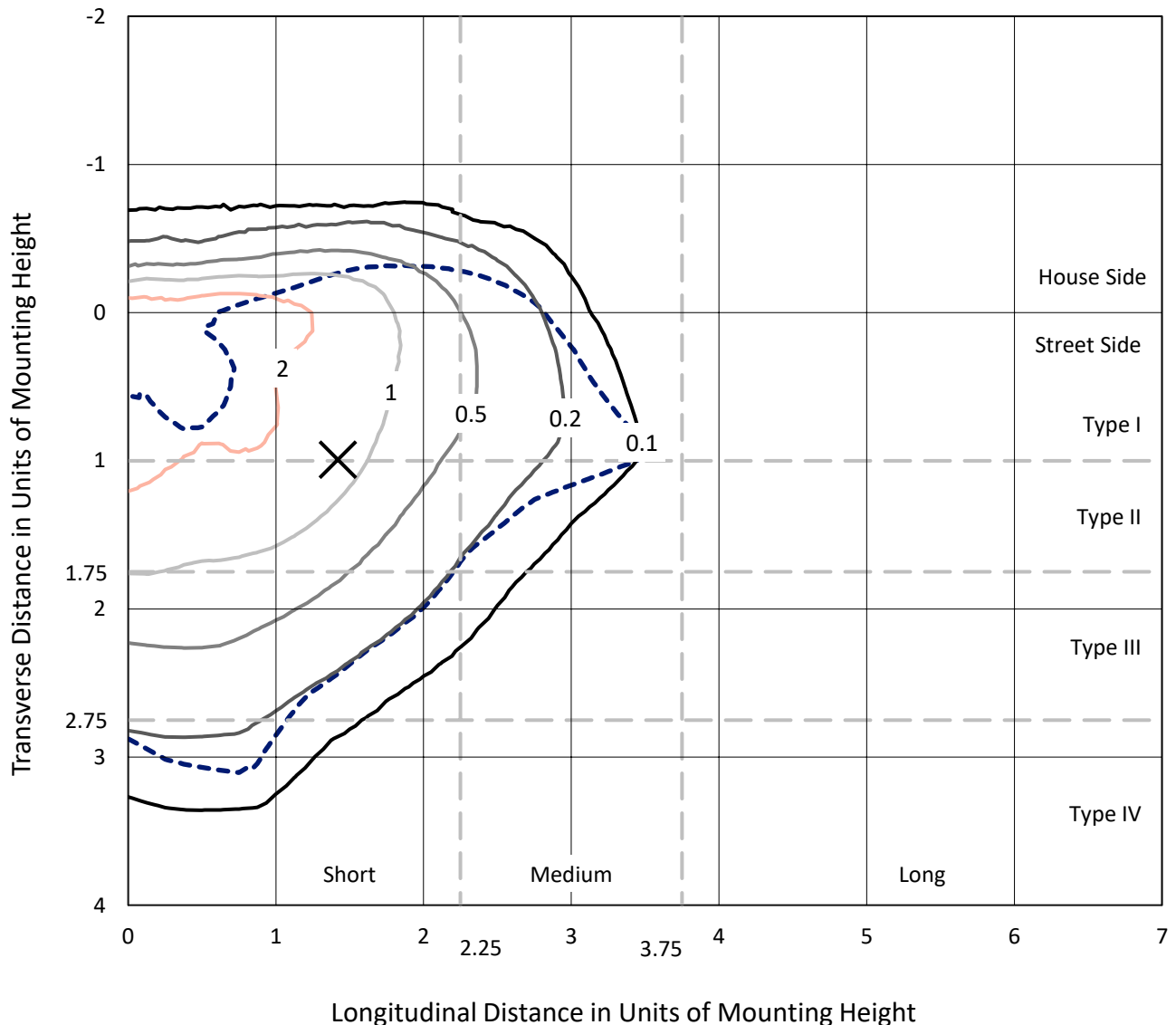
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451217
 CATALOG NUMBER: GALN-SA2A-750-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

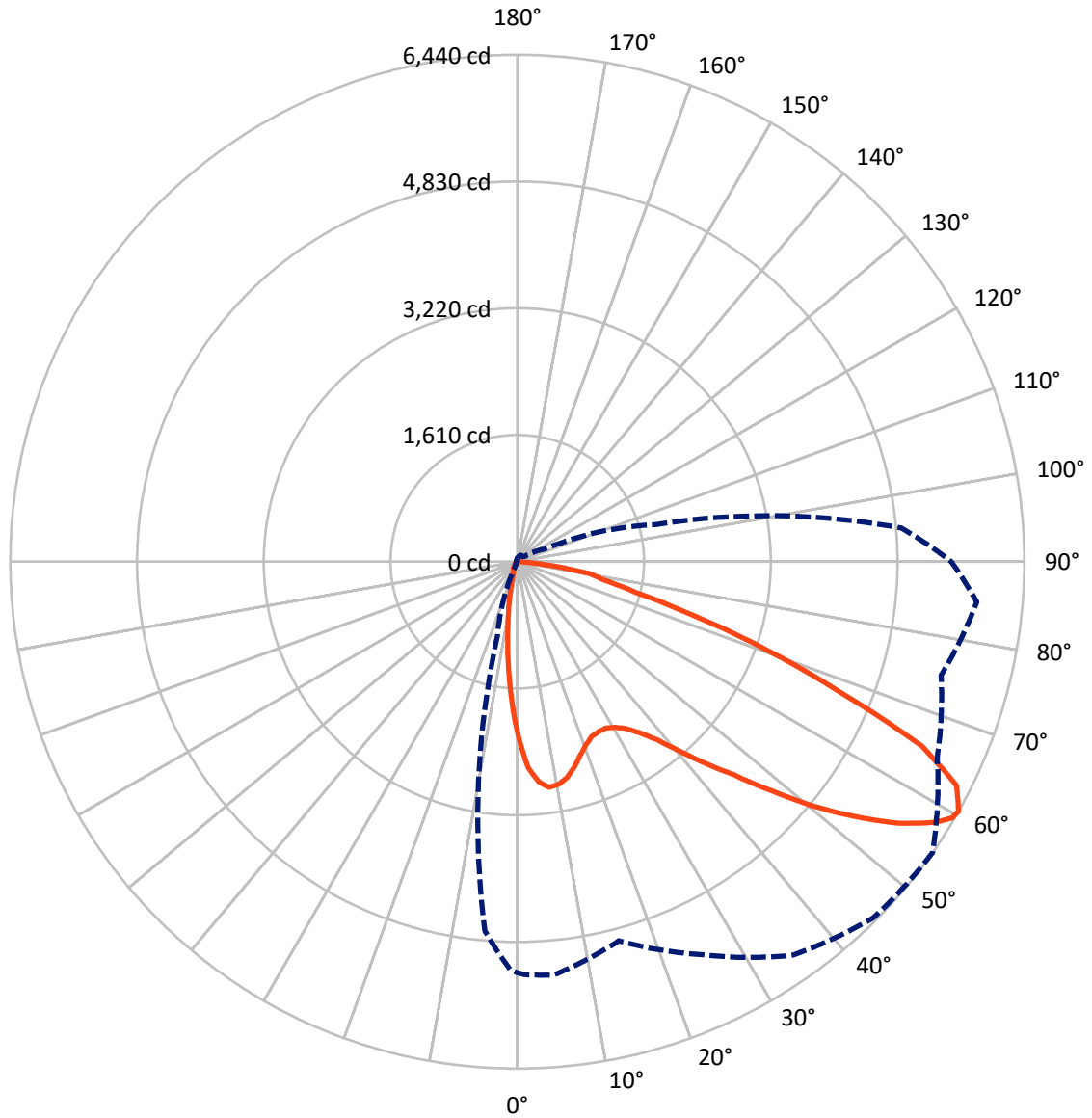
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

REPORT NUMBER: P451217
CATALOG NUMBER: GALN-SA2A-750-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P451217
 CATALOG NUMBER: GALN-SA2A-750-U-SLL-HSS

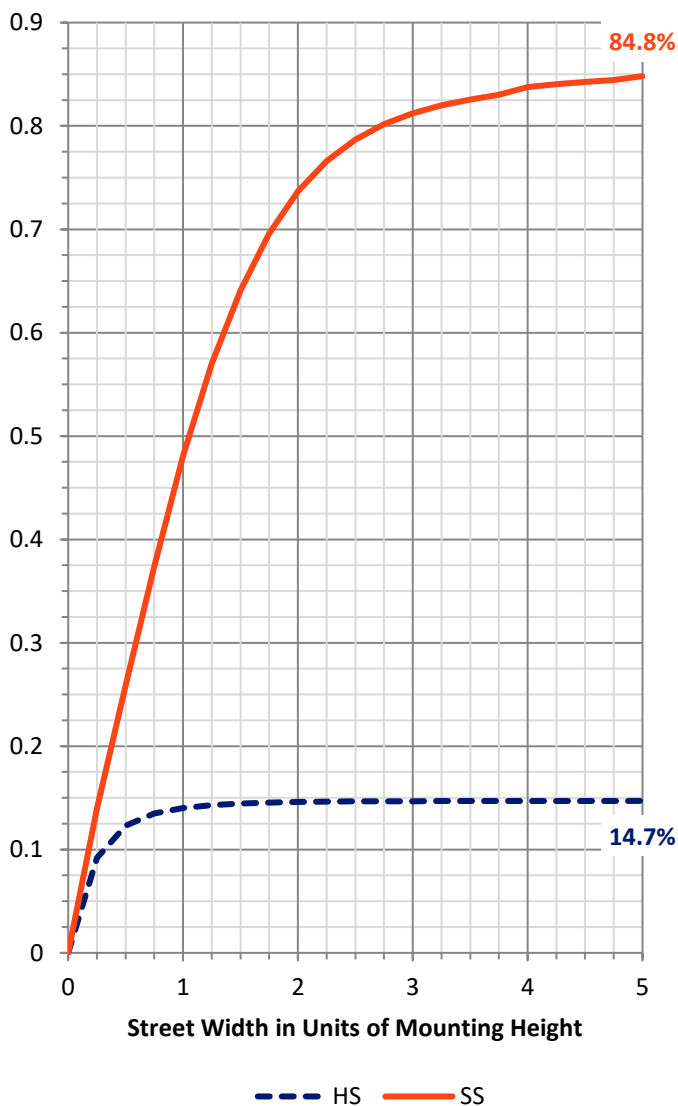
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	980.1	0.0	980.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	5623.9	0.0	5623.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	6604.0	0.0	6604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.6	2.5
10°-20°	326.1	4.9
20°-30°	482.7	7.3
30°-40°	719.4	10.9
40°-50°	1053.6	16.0
50°-60°	1521.1	23.0
60°-70°	1600.1	24.2
70°-80°	658.2	10.0
80°-90°	77.1	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°	6604.0	100.0
0°-180°	6604.0	100.0

Coefficient of Utilization



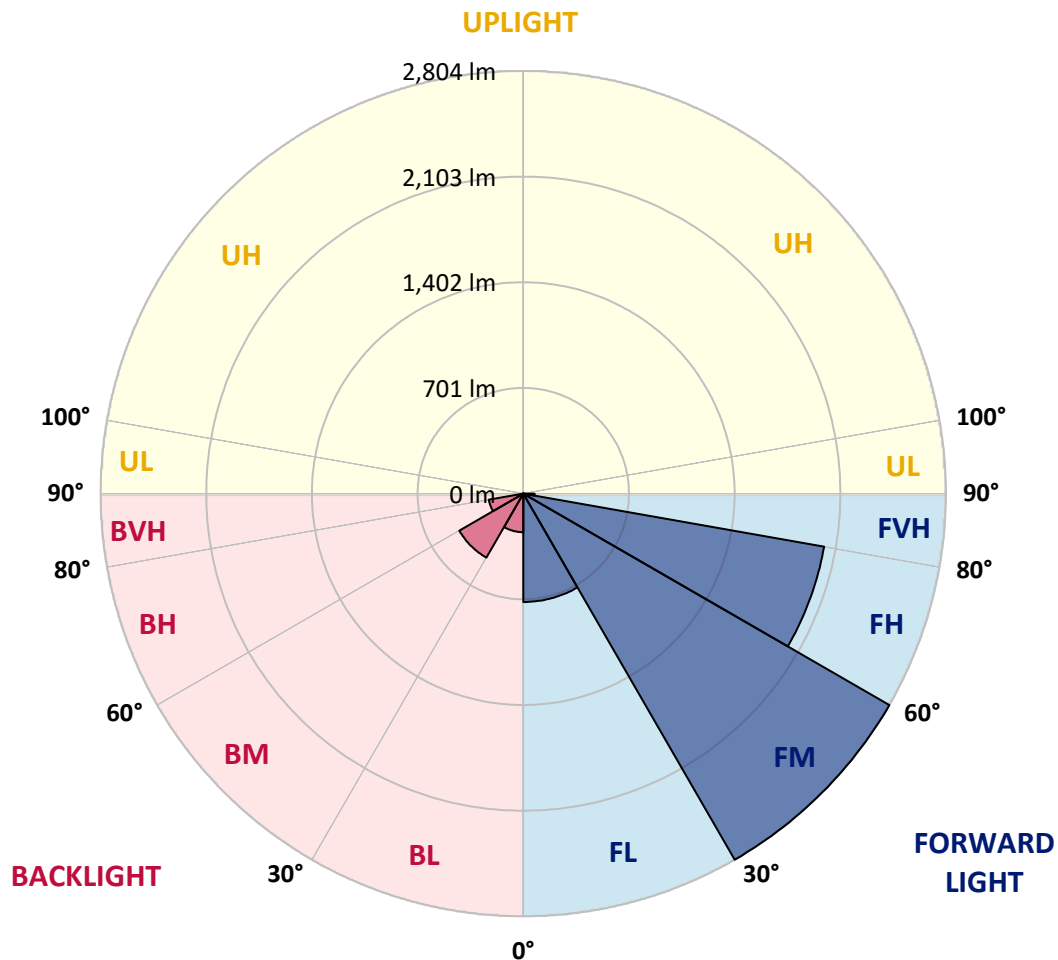
REPORT NUMBER: P451217
 CATALOG NUMBER: GALN-SA2A-750-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	718.6	10.9			
FM	(30°-60°)	2804.1	42.5			
FH	(60°-80°)	2026.4	30.7			G2/5000
FVH	(80°-90°)	74.8	1.1			G1/100
BL	(0°-30°)	255.7	3.9	B1/500		
BM	(30°-60°)	490.1	7.4	B1/1000		
BH	(60°-80°)	232.0	3.5	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
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 Short





REPORT NUMBER: P451217

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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1
2.5°	2443.0	2438.9	2475.0	2534.0	2593.4	2624.5	2618.4	2615.8	2566.5	2530.4	2454.7
5°	2437.9	2458.7	2523.3	2682.9	2803.9	2862.3	2879.6	2806.9	2710.9	2571.6	2399.8
7.5°	2292.0	2317.9	2423.2	2672.7	2887.8	3014.8	3010.3	2893.9	2695.6	2480.1	2235.1
10°	2111.0	2141.5	2265.1	2568.0	2847.1	3014.8	3024.0	2876.6	2630.0	2353.5	2095.8
12.5°	1983.5	2019.6	2156.3	2470.4	2742.4	2907.6	2918.3	2811.5	2580.7	2304.7	2020.1
15°	1940.3	1974.3	2113.1	2421.1	2631.1	2720.0	2717.5	2706.3	2561.4	2316.4	2024.1
17.5°	2014.5	2042.4	2199.0	2443.5	2526.9	2517.7	2530.9	2584.8	2565.5	2414.5	2152.2
20°	2206.1	2234.6	2402.8	2512.1	2447.0	2389.1	2395.2	2485.2	2603.1	2599.0	2352.5
22.5°	2469.9	2518.2	2670.7	2645.3	2436.4	2309.3	2296.6	2413.5	2667.2	2811.5	2622.9
25°	2803.9	2852.7	2971.6	2857.8	2488.7	2290.5	2278.8	2391.6	2744.9	3018.9	2927.4
27.5°	3084.5	3121.6	3240.0	3064.7	2566.0	2298.6	2279.3	2394.7	2808.0	3195.3	3184.1
30°	3309.2	3336.6	3406.2	3161.2	2632.6	2334.2	2311.8	2439.4	2835.9	3281.2	3392.0
32.5°	3490.1	3536.4	3558.2	3264.4	2728.1	2401.3	2363.2	2525.3	2904.0	3387.4	3610.1
35°	3697.0	3750.4	3722.4	3363.0	2854.2	2506.0	2459.2	2664.6	3007.2	3485.5	3863.2
37.5°	3959.3	4020.8	3911.5	3466.7	2987.4	2663.6	2641.7	2860.3	3163.8	3625.8	4134.7
40°	4230.7	4266.3	4095.0	3592.8	3151.1	2892.8	2913.7	3151.1	3368.6	3794.1	4423.4
42.5°	4442.7	4476.3	4283.6	3698.5	3318.3	3164.8	3251.7	3501.8	3603.5	3966.4	4638.9
45°	4604.9	4633.3	4414.2	3813.9	3544.0	3558.7	3722.9	3863.2	3838.8	4071.6	4805.1
47.5°	4730.9	4755.3	4514.9	3937.9	3882.0	4040.6	4291.7	4351.2	4082.8	4185.5	4955.6
50°	4782.8	4789.9	4546.4	4096.0	4265.8	4654.7	4916.5	4880.4	4362.4	4312.1	5115.7
52.5°	4850.4	4848.9	4636.4	4246.5	4626.7	5203.7	5464.9	5383.1	4678.6	4501.7	5295.7
55°	5027.8	5029.8	4829.0	4460.0	4934.3	5646.9	5926.5	5867.0	5012.0	4821.9	5505.6
57.5°	5243.3	5250.9	5103.0	4709.6	5228.1	5968.2	6271.1	6248.3	5462.9	5178.2	5703.8
59°	5271.3	5286.5	5232.6	4885.5	5402.4	6066.8	6389.1	6411.4	5704.4	5413.1	5811.1
60°	5220.4	5245.9	5270.3	4985.1	5504.6	6102.4	6396.2	6439.9	5885.8	5572.7	5859.9
62.5°	4998.8	5039.0	5161.5	5291.6	5632.2	5991.6	6169.0	6260.5	6110.5	5992.1	5864.5
65°	4708.6	4729.4	4906.3	5346.0	5384.6	5474.1	5529.0	5646.4	5840.6	6153.7	5654.5
67.5°	4232.8	4294.3	4510.8	5030.3	4654.2	4548.4	4534.7	4417.8	4922.1	5768.4	5137.1
70°	3496.7	3524.2	3791.0	4124.0	3512.5	3349.8	3414.9	3371.2	3815.4	4965.8	4134.7
72.5°	2644.3	2706.3	2967.1	3287.3	2390.1	2179.2	2358.6	2342.3	2865.9	3990.8	2840.5
75°	1881.3	1921.4	2253.9	2572.6	1673.9	1418.2	1482.8	1543.3	2000.7	3151.1	1678.5
77.5°	1292.7	1327.2	1576.8	1701.3	1221.0	1169.6	1070.0	1128.5	1311.0	1869.6	913.4
80°	779.8	778.2	942.4	972.9	850.4	987.7	828.6	930.2	792.5	800.1	353.8
82.5°	506.3	501.2	576.4	628.3	473.2	497.6	334.0	481.4	516.5	223.2	111.8
85°	226.7	236.4	277.0	365.5	207.4	110.3	68.1	147.9	220.1	112.3	0.0
87.5°	23.4	18.3	48.8	89.0	28.5	3.0	10.2	5.1	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°	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1
2.5°	2419.6	2390.1	2302.2	2219.8	2149.2	2062.8	2006.8	1918.9	1865.5	1849.3	1851.8
5°	2322.5	2237.6	2070.4	1936.7	1787.8	1702.9	1573.8	1449.7	1382.6	1357.7	1346.5
7.5°	2119.2	2028.2	1826.4	1616.5	1456.8	1307.9	1211.8	1102.5	1027.8	966.3	955.6
10°	1968.2	1848.8	1598.7	1373.0	1246.9	1135.1	1039.0	929.7	841.8	771.6	752.3
12.5°	1877.7	1744.0	1465.0	1275.9	1156.4	1041.5	916.5	789.9	700.0	624.2	589.1
15°	1861.5	1706.4	1427.4	1206.2	1058.8	920.1	753.8	617.1	524.6	452.9	431.1
17.5°	1959.6	1774.0	1421.8	1133.6	931.2	734.5	561.7	448.3	344.1	304.0	288.2
20°	2134.4	1893.5	1421.3	1049.2	800.1	565.8	394.5	292.3	250.1	230.8	221.6
22.5°	2372.8	2056.2	1448.2	976.5	663.9	417.3	281.6	232.8	208.4	192.7	189.1
25°	2664.1	2297.1	1514.3	927.2	559.7	327.4	232.3	199.3	178.9	171.8	168.8
27.5°	2922.8	2527.9	1587.0	876.3	484.9	289.7	215.5	182.5	166.2	160.6	156.1
30°	3146.0	2737.3	1622.0	809.2	425.0	265.3	218.6	195.2	173.8	157.1	149.4
32.5°	3332.0	2897.9	1644.9	748.2	374.1	217.1	172.8	151.0	141.3	135.2	130.1
35°	3564.8	3071.8	1631.2	713.7	348.2	197.7	157.6	130.1	113.9	101.7	96.6
37.5°	3808.8	3245.6	1607.3	685.2	336.5	183.5	150.0	123.5	105.7	93.0	86.4
40°	4061.5	3406.8	1579.3	658.8	325.8	174.4	145.4	117.9	100.1	86.4	79.3
42.5°	4292.8	3563.8	1568.2	641.5	308.5	175.9	141.8	115.4	94.5	80.3	74.2
45°	4479.8	3712.8	1583.4	632.3	289.7	173.3	142.8	112.3	90.0	76.2	70.1
47.5°	4679.6	3923.2	1632.7	623.2	271.4	161.1	150.5	111.8	87.9	73.7	67.1
50°	4911.9	4192.6	1745.6	600.8	249.1	147.9	160.1	111.3	85.4	70.7	64.0
52.5°	5221.5	4498.6	1862.0	561.7	216.5	135.2	153.0	109.8	80.3	67.1	60.5
55°	5499.5	4820.9	1960.6	515.4	175.4	116.9	137.8	103.2	71.7	61.0	54.9
57.5°	5614.4	5002.9	1957.5	451.4	140.3	102.7	113.4	94.5	62.5	53.9	48.8
59°	5572.2	4980.0	1892.0	404.1	128.1	95.1	94.0	93.5	58.5	48.8	44.7
60°	5512.7	4896.6	1821.3	380.7	120.5	90.0	86.4	92.5	54.9	45.7	41.7
62.5°	5285.0	4551.0	1587.0	341.1	110.3	76.2	69.1	78.3	48.8	39.6	36.1
65°	4955.1	4019.8	1343.5	329.9	107.3	63.0	57.4	55.9	41.7	33.5	30.5
67.5°	4311.6	3401.7	1088.3	322.3	108.3	52.9	50.3	42.2	34.6	28.0	25.9
70°	3452.0	2652.4	891.1	313.6	109.3	43.2	42.2	33.5	28.0	23.4	21.3
72.5°	2097.3	1572.2	701.5	272.5	106.2	34.6	37.6	25.4	20.3	16.8	15.8
75°	1296.7	1076.1	435.1	212.0	70.1	25.4	26.4	15.8	13.7	10.7	10.7
77.5°	751.3	679.6	155.5	76.2	31.0	15.2	11.7	8.1	7.6	4.6	4.6
80°	311.6	249.6	53.9	25.9	16.8	7.1	2.5	0.5	0.0	0.0	0.0
82.5°	91.0	80.8	14.7	11.7	5.1	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°	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1
2.5°	1808.6	1791.8	1784.2	1810.1	1786.2	1816.7	1793.4	1803.5	1833.5	1846.7	1880.8
5°	1353.7	1336.4	1328.2	1367.4	1365.3	1384.7	1382.6	1400.4	1415.7	1381.6	1416.7
7.5°	942.9	931.2	950.6	981.1	1013.6	1002.9	1002.9	979.0	987.2	982.1	980.5
10°	717.2	677.1	666.9	665.9	678.1	680.6	666.9	633.9	646.1	649.6	671.0
12.5°	564.2	533.2	486.0	464.6	459.0	463.6	418.3	389.4	403.1	395.0	415.8
15°	404.6	379.2	351.2	327.4	320.7	311.6	262.3	227.7	223.7	225.2	228.7
17.5°	288.7	271.4	271.4	246.0	232.3	204.9	179.9	164.7	163.2	164.7	167.2
20°	213.0	203.8	202.8	196.2	181.0	162.7	145.4	142.3	141.3	143.9	144.9
22.5°	183.5	173.8	165.7	165.2	151.0	135.7	127.6	123.5	124.0	125.0	127.6
25°	164.2	154.0	145.4	140.3	130.1	119.5	111.8	109.8	109.8	111.3	111.8
27.5°	150.5	137.8	130.1	123.0	113.9	104.7	98.1	96.6	95.6	96.6	99.1
30°	140.8	128.1	118.4	107.8	100.6	92.0	86.4	84.4	83.9	84.4	86.4
32.5°	120.5	112.8	105.2	95.6	86.9	81.3	75.2	71.7	71.7	72.7	74.7
35°	91.0	86.9	86.4	83.9	76.8	70.7	63.5	60.0	60.0	62.0	63.0
37.5°	80.3	72.7	71.7	70.7	67.6	59.5	52.9	49.8	49.3	50.8	52.9
40°	73.2	64.6	60.0	59.0	59.5	50.3	43.2	40.2	40.2	40.7	42.7
42.5°	67.6	57.4	49.3	48.3	50.3	42.2	35.1	32.0	32.0	32.0	34.6
45°	63.0	51.3	41.7	36.6	39.6	34.6	28.5	25.4	24.4	25.4	26.4
47.5°	60.0	46.8	36.6	29.5	29.5	27.4	22.9	19.3	18.3	18.8	20.3
50°	57.4	42.7	31.0	23.9	21.3	21.9	17.3	14.7	13.7	13.7	15.2
52.5°	53.4	38.6	26.9	20.3	16.3	14.7	12.7	10.7	10.2	10.7	11.7
55°	48.3	35.1	23.4	16.8	12.7	10.2	9.1	7.6	7.1	7.6	9.1
57.5°	42.7	29.5	18.8	13.2	8.6	6.6	6.1	5.1	4.1	4.6	5.6
59°	39.1	26.4	16.3	10.7	6.6	4.6	4.6	3.6	2.5	3.0	4.6
60°	37.6	24.4	13.7	9.1	5.6	3.6	3.6	2.5	1.5	2.0	3.6
62.5°	32.0	20.3	10.7	5.6	2.5	0.5	1.5	0.5	0.0	0.5	1.5
65°	26.9	16.3	7.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
67.5°	22.4	12.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.0	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



REPORT NUMBER: P451217
 CATALOG NUMBER: GALN-SA2A-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1
2.5°	1882.8	1955.5	2000.2	2084.6	2171.0	2237.6	2321.0	2395.7	2426.7	2443.0
5°	1452.3	1553.4	1639.3	1767.9	1887.4	2032.8	2180.2	2354.0	2420.6	2437.9
7.5°	1019.2	1122.4	1212.3	1361.3	1531.6	1726.3	1946.9	2167.5	2264.6	2292.0
10°	736.0	846.4	956.1	1105.1	1264.2	1475.1	1704.9	1977.9	2089.7	2111.0
12.5°	464.6	583.0	761.5	945.5	1113.7	1283.5	1523.9	1820.8	1944.3	1983.5
15°	269.4	357.9	492.6	732.5	946.5	1171.2	1433.5	1761.8	1900.1	1940.3
17.5°	180.5	211.0	303.5	487.0	769.6	1067.5	1410.6	1810.1	1963.1	2014.5
20°	152.0	165.7	198.2	296.9	592.7	975.0	1416.7	1941.3	2142.1	2206.1
22.5°	133.7	146.4	167.2	213.5	413.8	860.1	1445.7	2128.8	2388.1	2469.9
25°	117.9	130.6	148.9	176.9	278.1	727.4	1509.2	2403.3	2713.9	2803.9
27.5°	104.7	116.4	132.2	156.1	214.0	579.5	1565.6	2670.7	3011.3	3084.5
30°	92.5	102.2	117.4	135.7	177.9	446.8	1594.1	2904.5	3227.8	3309.2
32.5°	80.3	89.5	104.2	118.9	146.4	340.6	1574.3	3076.3	3438.3	3490.1
35°	68.6	78.3	90.5	104.2	126.6	275.0	1475.1	3269.5	3656.3	3697.0
37.5°	59.0	67.1	79.8	90.5	114.4	220.1	1355.2	3443.4	3900.8	3959.3
40°	49.8	57.9	70.7	80.3	105.2	173.3	1246.9	3636.5	4158.6	4230.7
42.5°	40.7	50.3	61.5	77.3	90.5	132.2	1115.8	3793.1	4352.2	4442.7
45°	32.5	43.2	55.4	76.8	78.8	100.6	989.2	3915.1	4523.5	4604.9
47.5°	25.9	36.6	53.4	71.7	64.6	79.8	917.0	4042.7	4665.9	4730.9
50°	20.8	30.5	55.9	63.0	53.9	67.6	915.0	4185.0	4739.6	4782.8
52.5°	16.8	24.9	47.3	48.3	45.7	59.5	969.9	4345.1	4814.8	4850.4
55°	14.2	20.8	31.0	35.6	41.2	53.9	1011.0	4591.6	4994.2	5027.8
57.5°	11.2	17.8	23.9	28.5	36.6	49.3	1016.6	4781.8	5221.5	5243.3
59°	9.7	15.2	21.3	25.4	33.5	46.3	993.8	4793.4	5236.2	5271.3
60°	8.1	13.7	18.8	23.9	31.0	43.7	968.9	4708.6	5181.3	5220.4
62.5°	6.1	10.7	13.7	19.3	25.4	37.6	850.9	4412.2	4971.4	4998.8
65°	4.1	7.6	10.2	14.2	19.8	32.5	693.3	4027.9	4647.1	4708.6
67.5°	2.5	5.6	8.1	10.7	16.3	27.4	494.1	3454.0	4193.1	4232.8
70°	1.5	3.6	6.1	8.6	12.7	21.9	293.3	2730.2	3488.6	3496.7
72.5°	1.0	2.5	4.1	6.1	10.2	19.8	142.3	1779.6	2547.2	2644.3
75°	0.5	1.5	2.5	4.6	8.1	16.3	68.1	1189.0	1853.3	1881.3
77.5°	0.0	0.5	1.5	3.0	6.1	12.7	39.6	780.8	1263.7	1292.7
80°	0.0	0.0	1.0	2.5	4.6	8.1	23.9	460.5	765.5	779.8
82.5°	0.0	0.0	0.5	2.0	3.0	6.1	12.2	202.3	501.2	506.3
85°	0.0	0.0	0.5	2.0	2.5	4.1	4.6	27.4	222.6	226.7
87.5°	0.0	0.0	0.5	2.5	2.5	2.5	2.5	1.5	18.8	23.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)