

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: P532864

Luminaire Tested: **GALN-SA8B-730-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532864
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-SA8B-730-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA 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: 31165 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

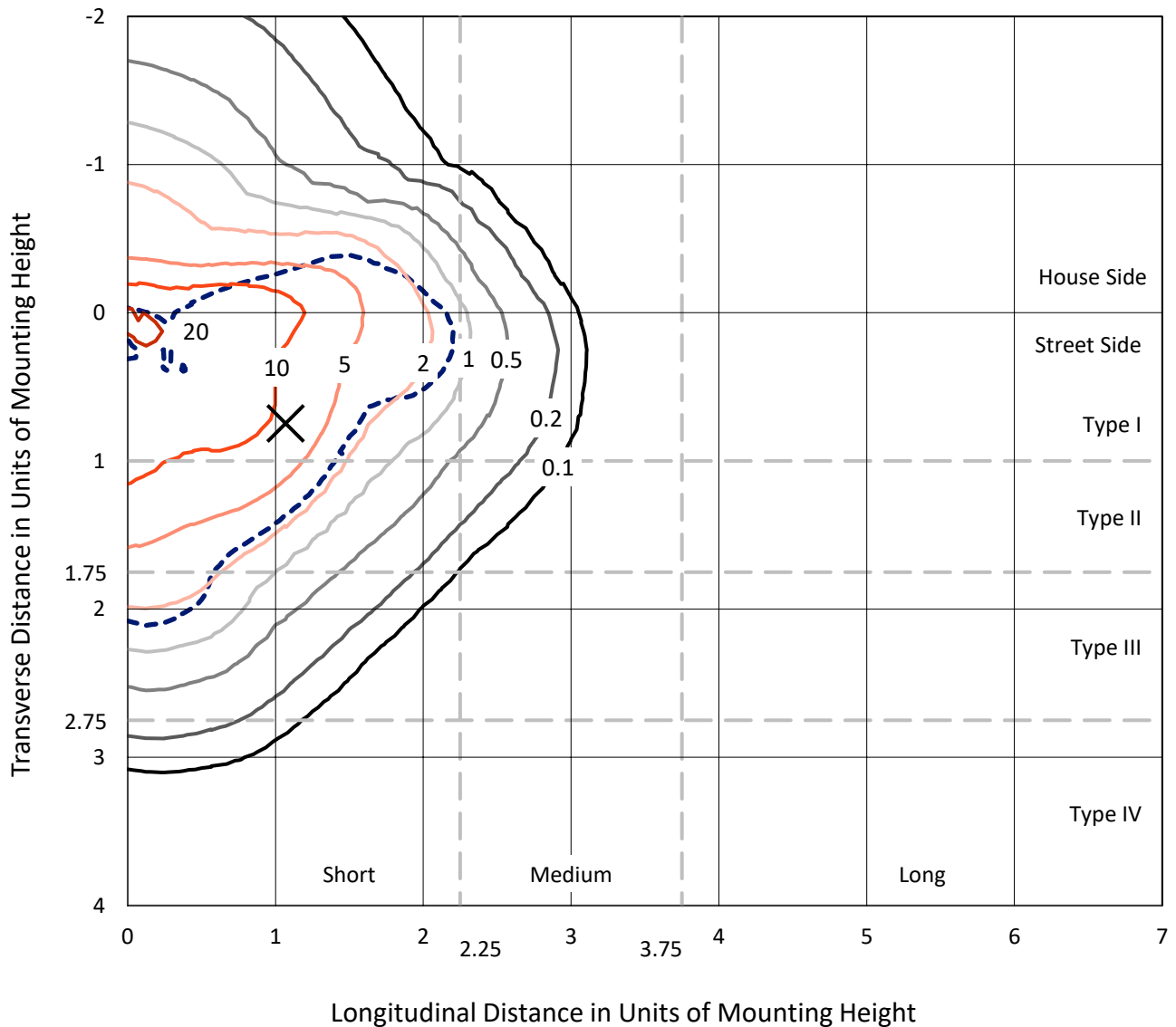
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

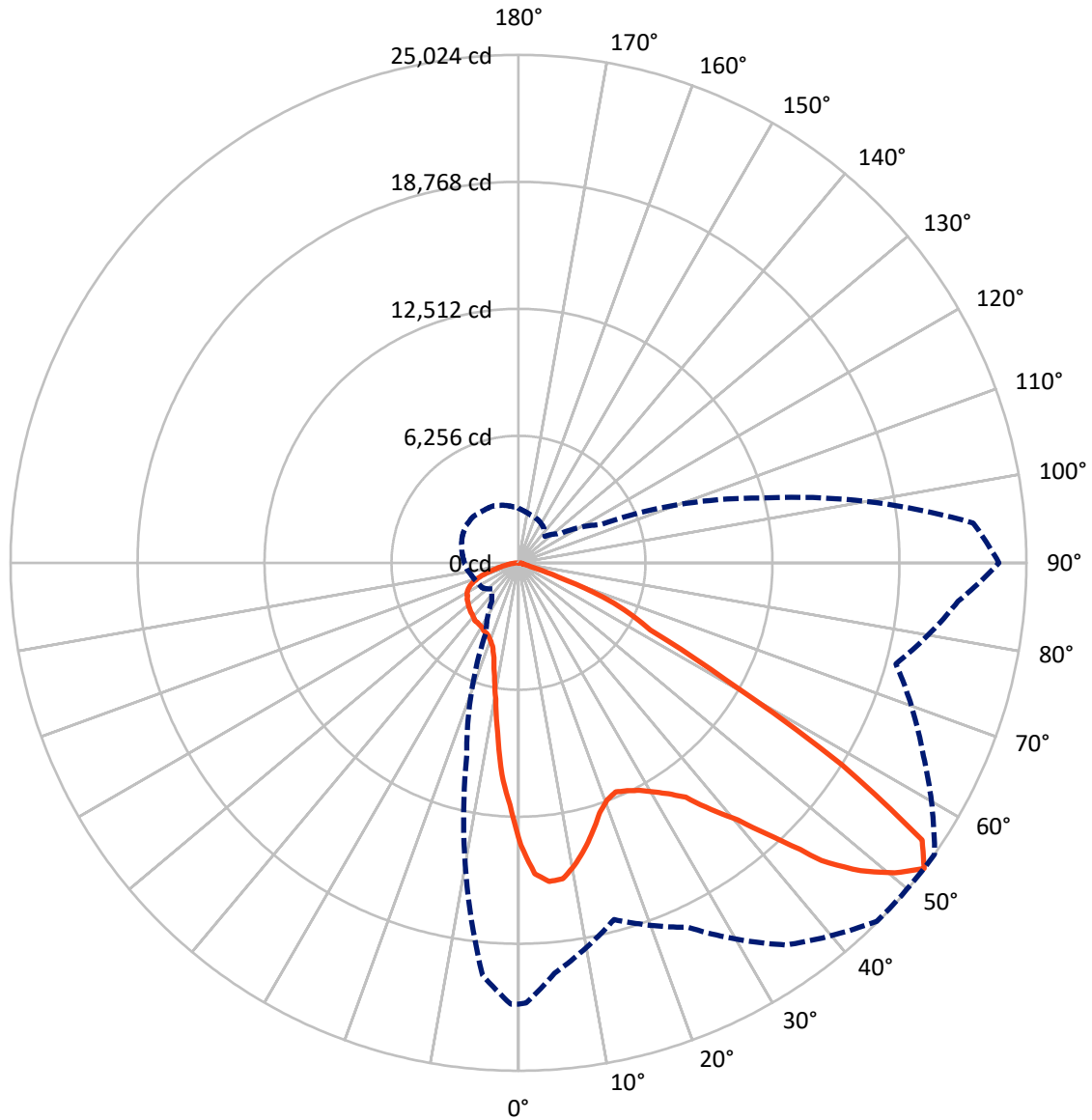
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 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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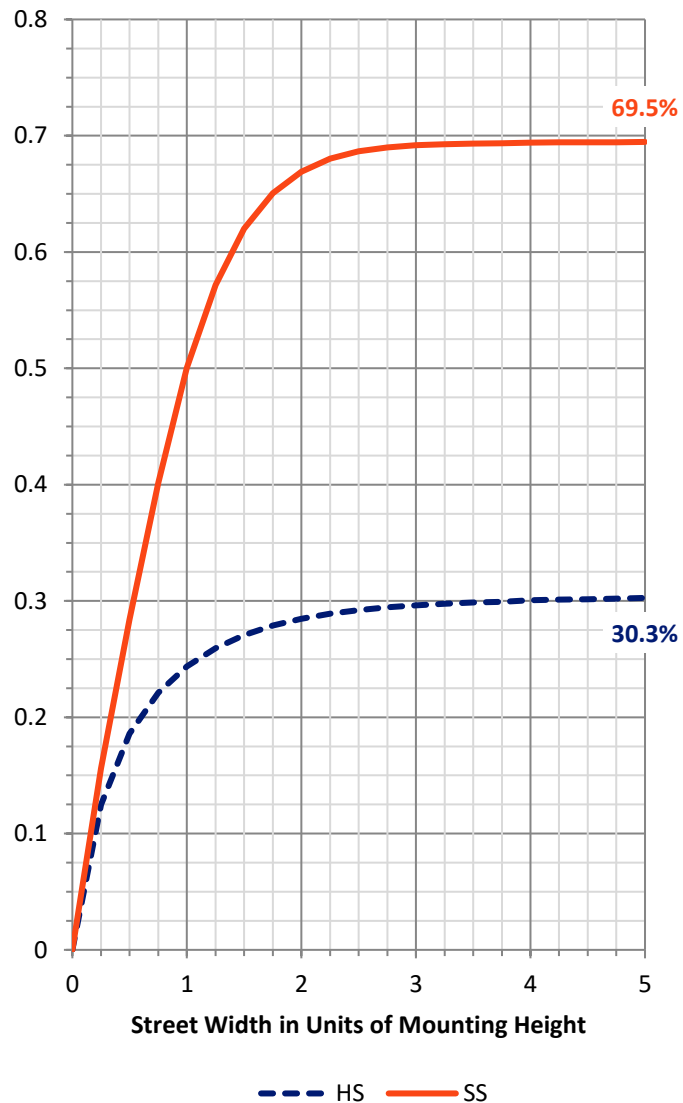
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9507.0	0.0	9507.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	21658.0	0.0	21658.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	31165.0	0.0	31165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1062.1	3.4
10°-20°	2290.0	7.3
20°-30°	3472.4	11.1
30°-40°	5017.1	16.1
40°-50°	6704.2	21.5
50°-60°	7483.3	24.0
60°-70°	4104.9	13.2
70°-80°	887.5	2.8
80°-90°	143.6	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°	31165.0	100.0
0°-180°	31165.0	100.0

Coefficient of Utilization

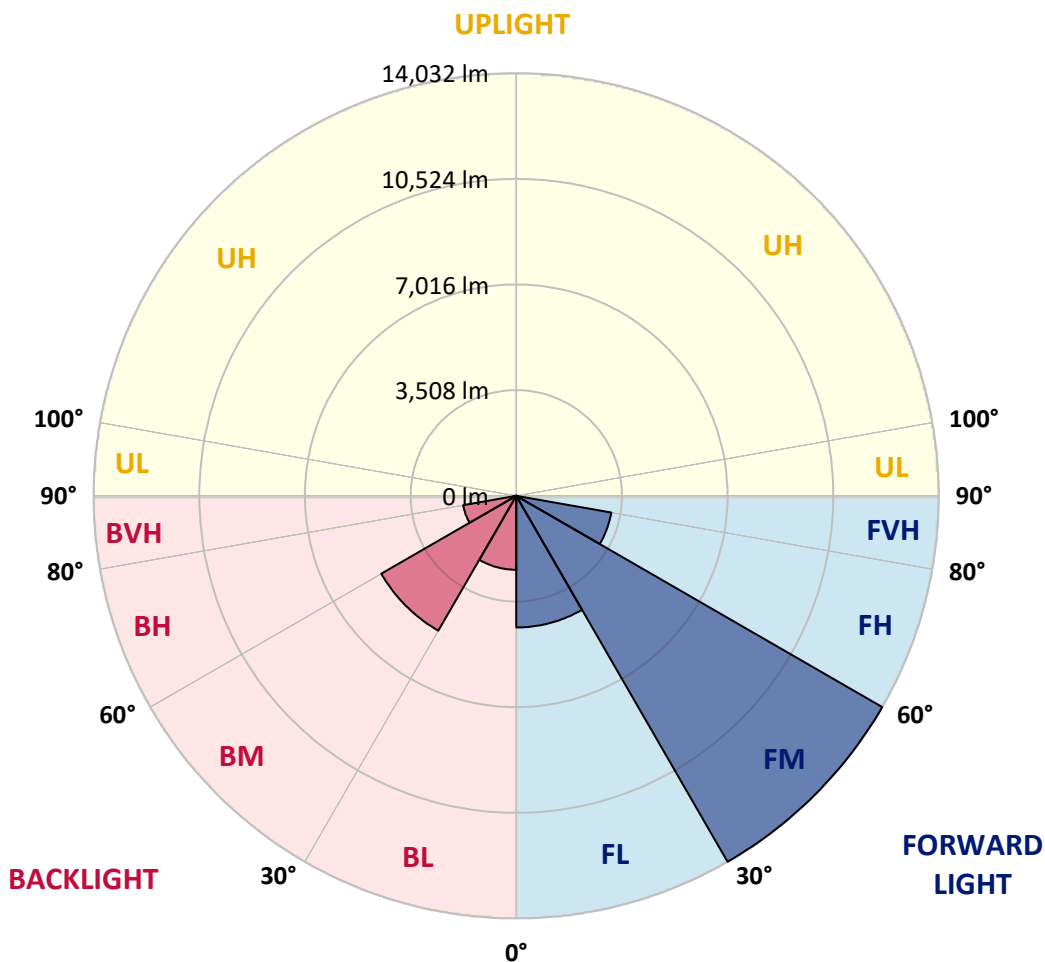


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4369.9	14.0			
FM (30°-60°)	14031.9	45.0			
FH (60°-80°)	3203.0	10.3			G2/5000
FVH (80°-90°)	53.2	0.2			G1/100
BL (0°-30°)	2454.6	7.9	B3/2500		
BM (30°-60°)	5172.6	16.6	B4/8500		
BH (60°-80°)	1789.4	5.7	B3/2500		G3/2500
BVH (80°-90°)	90.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0
2.5°	14589.1	14507.2	14580.0	14925.9	15126.1	15262.6	15349.1	15335.4	15007.8	14689.2	14689.2
5°	14161.4	14056.7	14206.9	14989.6	15776.8	15845.1	15958.9	15772.3	15289.9	14707.5	13979.4
7.5°	12923.6	13001.0	13251.3	14279.7	15303.6	15817.8	15954.3	15717.7	14935.0	13847.4	12778.0
10°	11854.2	12036.3	12614.2	13724.5	14666.5	15335.4	15485.6	15153.4	14534.5	13201.2	12245.6
12.5°	11485.6	11371.9	12013.5	13123.9	14024.9	14384.4	14452.6	14475.4	14056.7	12873.6	11708.6
15°	11440.1	11512.9	12013.5	12855.4	13410.5	13428.7	13542.5	13720.0	13774.6	13096.5	11958.9
17.5°	12095.4	12009.0	12523.2	13192.1	12928.2	12664.2	12691.5	12946.4	13396.9	13287.7	12746.2
20°	13064.7	13260.4	13665.4	13597.1	12887.2	12218.3	12222.8	12464.0	13351.4	14079.5	13842.8
22.5°	14675.6	14866.7	15167.1	14343.4	12887.2	12086.3	11931.6	12259.2	13642.6	15021.4	15080.6
25°	16145.4	16495.8	16577.7	15608.5	13533.4	12209.2	12109.1	12432.2	13933.9	15940.7	16500.4
27.5°	17483.3	17610.7	17970.2	16423.0	13892.9	12291.1	12282.0	12696.1	14302.5	16400.3	17770.0
30°	18539.0	18525.4	18730.2	16937.2	14466.3	12750.7	12309.3	13092.0	14784.8	17160.2	18944.0
32.5°	19258.0	19412.7	19845.0	17651.7	14707.5	13187.6	12841.7	13556.2	15371.8	17519.7	19772.2
35°	20523.1	20791.6	20245.5	18047.6	15471.9	13619.9	13214.9	14188.7	15663.1	17911.1	20787.0
37.5°	21715.3	21510.6	20955.4	18261.4	15968.0	14420.8	14043.1	15412.8	16568.6	18762.0	21460.5
40°	22479.8	22475.3	21487.8	18434.4	16318.4	15644.9	15622.1	16655.1	17679.0	19299.0	22215.9
42.5°	22812.0	23130.6	21706.2	18416.2	17055.5	17128.4	17588.0	18511.7	18466.2	19408.2	22197.7
44°	23267.1	23458.2	22083.9	18457.1	17547.0	18129.5	19212.5	19799.5	19153.4	19349.0	22174.9
45°	23248.9	23262.5	21547.0	18511.7	17965.7	18966.8	19936.1	20928.1	19758.6	19221.6	22475.3
47.5°	22716.5	22561.7	21091.9	18106.7	19271.7	21178.4	22074.8	22675.5	20504.9	18948.6	22102.1
50°	21665.3	21487.8	19986.1	17933.8	19544.7	22552.6	23790.4	24008.8	21182.9	18680.1	21733.5
52.5°	21738.1	21688.0	20300.1	18193.2	19817.7	22984.9	24969.0	25023.6	21952.0	19244.4	21738.1
55°	23039.6	22866.6	21201.1	18516.3	19617.5	22479.8	24218.1	24122.6	21692.6	18903.1	22138.5
57.5°	21082.8	21196.6	19954.3	17237.6	17169.3	18275.1	19039.6	18803.0	18102.2	17060.1	20595.9
60°	17010.0	17333.1	17451.4	14416.2	12955.5	12386.7	12159.1	11740.5	11858.8	14015.8	18093.1
62.5°	14589.1	14570.9	15312.7	13069.2	8486.8	7299.1	7189.9	7285.5	8650.6	13797.3	17719.9
65°	11567.6	11877.0	12104.5	11076.1	6716.6	5419.7	5415.2	6020.4	7485.7	11531.2	14307.0
67.5°	7344.6	7749.6	8031.8	7085.2	4491.4	3858.9	3754.2	4482.3	5187.7	7563.1	8614.2
70°	4141.0	4332.1	4459.6	4086.4	2857.8	2002.3	1883.9	2056.9	3135.3	4896.4	5105.7
72.5°	1597.3	1683.7	1856.6	1870.3	1078.5	646.2	523.3	628.0	1319.7	1938.5	1847.5
75°	245.7	263.9	373.1	446.0	309.4	236.6	250.3	259.4	368.6	500.6	418.7
77.5°	118.3	118.3	113.8	132.0	154.7	168.4	182.0	200.2	218.4	241.2	232.1
80°	77.4	77.4	77.4	91.0	113.8	136.5	154.7	163.8	172.9	191.1	182.0
82.5°	50.1	50.1	50.1	68.3	91.0	113.8	122.9	145.6	163.8	191.1	177.5
85°	27.3	27.3	27.3	45.5	68.3	95.6	91.0	72.8	41.0	4.6	9.1
87.5°	9.1	9.1	9.1	9.1	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°	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0
2.5°	14307.0	14097.7	14079.5	13651.7	13269.5	13082.9	12932.7	12514.1	12605.1	12363.9	12359.4
5°	13615.3	13187.6	12495.9	11927.1	11358.2	11244.5	10748.5	10316.1	10329.8	10020.4	10075.0
7.5°	12373.0	12077.2	11235.4	10343.5	9588.1	9051.1	8582.4	8300.2	7940.8	7817.9	7754.2
10°	11585.8	11221.7	10275.2	9155.8	8309.3	8022.7	7572.2	7321.9	6953.3	6771.3	6643.8
12.5°	11239.9	10707.5	9524.3	8386.7	7822.4	7526.6	7144.4	6689.3	6252.5	6084.1	5852.0
15°	11276.3	10639.2	9305.9	8077.3	7399.2	6825.9	6484.6	5979.5	5533.5	5237.7	5069.3
17.5°	11826.9	11053.3	9406.0	7840.6	6866.8	6147.8	5478.9	4932.8	4577.9	4354.9	4300.3
20°	13128.4	12077.2	9574.4	7458.4	6334.4	5437.9	4614.3	4045.5	3772.4	3767.9	3772.4
22.5°	14211.4	13169.4	9915.7	7230.9	5802.0	4527.8	3708.7	3526.7	3472.1	3585.9	3599.5
25°	15672.2	14398.0	10502.7	7112.5	5310.5	3858.9	3353.8	3285.5	3281.0	3426.6	3431.1
27.5°	17169.3	15471.9	10853.1	6766.7	4810.0	3513.0	3139.9	3126.2	3199.1	3353.8	3340.1
30°	18188.6	16373.0	11485.6	6352.6	4218.4	3208.2	3053.4	3071.6	3171.7	3290.1	3308.3
32.5°	19376.3	17260.3	11649.5	6125.1	3854.3	2953.3	2844.1	2885.1	3012.5	3199.1	3299.2
35°	20737.0	17888.3	11899.7	5815.6	3717.8	2757.6	2703.0	2748.5	2903.3	3026.1	3135.3
37.5°	21742.6	18998.6	11945.3	5574.5	3567.6	2648.4	2562.0	2712.1	2803.2	2976.1	3030.7
40°	22488.9	19804.1	12063.6	5424.3	3449.3	2507.4	2507.4	2607.5	2730.3	2889.6	2998.8
42.5°	22966.7	20391.1	12150.0	5287.8	3221.8	2466.4	2443.7	2543.8	2707.6	2862.3	2912.4
44°	23258.0	20641.4	12063.6	5160.3	3158.1	2416.4	2416.4	2502.8	2630.2	2812.3	2871.4
45°	23330.8	20955.4	11872.4	5155.8	3080.7	2357.2	2348.1	2511.9	2598.4	2821.4	2857.8
47.5°	23612.9	21342.2	11895.2	5010.2	2894.2	2216.1	2375.4	2448.2	2525.6	2721.2	2844.1
50°	23603.8	21583.4	11845.1	4796.3	2757.6	2056.9	2320.8	2402.7	2480.1	2680.3	2730.3
52.5°	23667.5	22484.4	12304.7	4455.0	2511.9	1852.1	2138.8	2320.8	2416.4	2584.7	2689.4
55°	23635.7	22998.6	12759.8	4200.2	2166.1	1729.2	1984.0	2197.9	2334.4	2511.9	2562.0
57.5°	21587.9	20327.4	11808.7	3722.4	1792.9	1583.6	1765.6	2070.5	2243.4	2425.5	2489.2
60°	17638.0	15667.6	9738.2	2739.4	1474.4	1456.2	1642.8	2029.6	2102.4	2261.6	2370.8
62.5°	16300.2	13742.7	7722.3	2093.3	1260.5	1333.3	1515.3	1833.9	1947.6	2143.3	2243.4
65°	12755.3	9128.4	4782.7	1415.2	1110.3	1196.8	1369.7	1606.4	1792.9	1974.9	2093.3
67.5°	7554.0	4987.4	2366.3	992.0	969.3	1060.3	1237.8	1415.2	1629.1	1829.3	1888.5
70°	4113.7	2452.8	1010.2	755.4	823.7	905.6	1078.5	1201.4	1406.1	1560.8	1661.0
72.5°	1319.7	746.3	505.1	559.7	628.0	723.5	828.2	978.4	1124.0	1215.0	1296.9
75°	318.5	314.0	359.5	391.3	455.1	527.9	614.3	691.7	805.5	891.9	964.7
77.5°	223.0	241.2	277.6	323.1	345.8	373.1	427.8	486.9	537.0	600.7	646.2
80°	172.9	186.6	213.9	236.6	259.4	282.1	309.4	332.2	364.0	405.0	427.8
82.5°	163.8	172.9	200.2	213.9	204.8	200.2	218.4	227.5	232.1	245.7	259.4
85°	13.7	0.0	9.1	31.9	77.4	113.8	122.9	122.9	118.3	127.4	127.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	18.2	13.7
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°	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0
2.5°	12304.7	12150.0	12209.2	12282.0	12177.3	11936.2	11999.9	11972.6	12218.3	12200.1	12445.8
5°	10316.1	10075.0	10102.3	10457.2	10343.5	10466.3	10220.6	10188.7	10234.2	10257.0	10297.9
7.5°	7895.2	7863.4	8136.4	8436.8	8577.8	8432.2	8191.0	8136.4	8086.4	7986.3	8213.8
10°	6443.6	6452.7	6434.5	6662.0	6821.3	6789.5	6643.8	6625.6	6530.1	6493.7	6621.1
12.5°	5751.9	5629.1	5569.9	5497.1	5620.0	5701.9	5638.2	5592.7	5597.2	5642.7	5660.9
15°	5083.0	5005.6	4878.2	4796.3	4855.5	4814.5	4791.8	4882.8	4860.0	4850.9	4960.1
17.5°	4332.1	4395.9	4386.8	4295.7	4373.1	4341.2	4336.7	4273.0	4186.5	4122.8	4159.2
20°	3836.1	3954.4	4045.5	4050.0	4091.0	4086.4	4018.2	3822.5	3758.8	3745.1	3754.2
22.5°	3658.7	3722.4	3831.6	3986.3	3986.3	3913.5	3831.6	3604.1	3544.9	3481.2	3453.9
25°	3517.6	3640.5	3781.5	3799.7	3872.5	3804.3	3672.3	3558.5	3435.7	3349.2	3349.2
27.5°	3444.8	3581.3	3686.0	3717.8	3817.9	3763.3	3626.8	3481.2	3335.6	3331.0	3253.7
30°	3412.9	3540.3	3608.6	3686.0	3731.5	3645.0	3604.1	3449.3	3303.7	3267.3	3139.9
32.5°	3317.4	3499.4	3626.8	3608.6	3645.0	3608.6	3549.4	3422.0	3258.2	3176.3	3162.6
35°	3208.2	3390.2	3526.7	3622.3	3645.0	3567.6	3531.2	3358.3	3135.3	3094.4	2953.3
37.5°	3149.0	3258.2	3426.6	3581.3	3613.2	3572.2	3449.3	3271.9	3048.9	3003.4	2880.5
40°	3076.2	3217.3	3349.2	3476.6	3572.2	3472.1	3331.0	3158.1	3058.0	2921.5	2885.1
42.5°	3021.6	3180.9	3290.1	3431.1	3540.3	3408.4	3244.6	3126.2	2985.2	2894.2	2789.5
44°	3003.4	3149.0	3221.8	3394.7	3485.7	3385.6	3249.1	3126.2	2962.4	2880.5	2789.5
45°	2939.7	3139.9	3217.3	3372.0	3449.3	3367.4	3194.5	3071.6	2953.3	2853.2	2757.6
47.5°	2876.0	3012.5	3144.4	3267.3	3321.9	3294.6	3149.0	2998.8	2857.8	2798.6	2707.6
50°	2857.8	2994.3	3117.1	3230.9	3294.6	3240.0	3108.0	2962.4	2798.6	2703.0	2625.7
52.5°	2766.7	2935.1	3071.6	3108.0	3190.0	3158.1	3058.0	2898.7	2744.0	2662.1	2598.4
55°	2634.8	2812.3	2998.8	3044.3	3162.6	3112.6	2962.4	2812.3	2680.3	2557.4	2475.5
57.5°	2584.7	2757.6	2939.7	2998.8	3071.6	2989.7	2953.3	2794.1	2584.7	2521.0	2393.6
60°	2457.3	2675.7	2825.9	2962.4	2967.0	2944.2	2880.5	2698.5	2525.6	2407.3	2316.2
62.5°	2357.2	2562.0	2680.3	2807.7	2885.1	2821.4	2757.6	2589.3	2402.7	2270.7	2166.1
65°	2211.6	2398.2	2498.3	2575.6	2662.1	2653.0	2543.8	2420.9	2225.2	2120.6	2020.5
67.5°	1988.6	2152.4	2288.9	2361.7	2416.4	2402.7	2320.8	2234.3	2034.1	1929.4	1856.6
70°	1720.1	1888.5	1974.9	2015.9	2070.5	2097.8	2034.1	1993.2	1815.7	1679.2	1610.9
72.5°	1383.4	1492.6	1620.0	1656.4	1679.2	1697.4	1697.4	1661.0	1478.9	1424.3	1306.0
75°	1019.3	1105.8	1201.4	1201.4	1242.3	1246.9	1256.0	1233.2	1096.7	1023.9	996.6
77.5°	691.7	755.4	832.8	864.6	891.9	887.4	882.8	819.1	746.3	714.4	687.1
80°	450.5	514.2	550.6	591.6	618.9	614.3	623.4	577.9	546.1	491.5	500.6
82.5°	268.5	318.5	354.9	405.0	405.0	418.7	418.7	405.0	373.1	345.8	345.8
85°	127.4	168.4	191.1	223.0	241.2	245.7	218.4	186.6	154.7	141.1	154.7
87.5°	22.8	31.9	45.5	41.0	50.1	45.5	45.5	45.5	45.5	36.4	41.0
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: P532864

CATALOG NUMBER: GALN-SA8B-730-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0	13902.0
2.5°	12354.8	12582.3	12741.6	13005.5	13460.6	13824.6	14197.8	14475.4	14507.2	14589.1
5°	10448.1	10571.0	10976.0	11503.8	11877.0	12491.3	12887.2	13606.2	13874.7	14161.4
7.5°	8159.2	8359.4	8900.9	9255.9	10075.0	10844.0	11640.4	12527.7	12882.7	12923.6
10°	6880.5	7171.7	7540.3	8109.1	8555.1	9410.6	10402.6	11390.1	11786.0	11854.2
12.5°	6043.2	6416.3	6907.8	7317.3	7745.1	8491.4	9442.4	10662.0	11176.2	11485.6
15°	5237.7	5624.5	6166.0	6734.8	7112.5	8004.5	9123.9	10498.2	11167.1	11440.1
17.5°	4409.5	4769.0	5215.0	5829.3	6589.2	7590.4	9073.8	11044.2	11776.9	12095.4
20°	3699.6	3899.8	4418.6	5051.1	6002.2	7167.2	9092.0	11849.7	12923.6	13064.7
22.5°	3422.0	3467.5	3672.3	4254.8	5296.9	6734.8	9415.1	12991.9	14211.4	14675.6
25°	3208.2	3199.1	3253.7	3645.0	4782.7	6566.5	9733.7	14043.1	15640.3	16145.4
27.5°	3089.8	2998.8	3003.4	3372.0	4418.6	6293.4	10143.2	15249.0	17260.3	17483.3
30°	3030.7	3012.5	2957.9	3108.0	4022.7	5883.9	10211.5	16436.7	18215.9	18539.0
32.5°	2994.3	2816.8	2748.5	2803.2	3649.6	5437.9	10466.3	17219.4	19399.1	19258.0
35°	2812.3	2653.0	2607.5	2662.1	3385.6	5187.7	10297.9	17902.0	20286.5	20523.1
37.5°	2744.0	2602.9	2511.9	2466.4	3139.9	4978.3	10211.5	18953.1	21146.5	21715.3
40°	2680.3	2530.1	2420.9	2375.4	2948.8	4700.7	10184.2	19763.1	22138.5	22479.8
42.5°	2607.5	2511.9	2389.1	2307.1	2716.7	4423.2	9870.2	20013.4	22443.4	22812.0
44°	2584.7	2439.1	2311.7	2284.4	2625.7	4282.1	9806.5	20240.9	22707.4	23267.1
45°	2562.0	2425.5	2279.8	2243.4	2593.8	4204.7	9720.0	20295.6	23144.2	23248.9
47.5°	2498.3	2411.8	2270.7	2170.6	2525.6	4036.4	9460.6	19986.1	22698.3	22716.5
50°	2448.2	2348.1	2202.5	2006.8	2434.6	3895.3	9579.0	19872.4	21624.3	21665.3
52.5°	2393.6	2243.4	2161.5	1824.8	2284.4	3777.0	9829.2	20386.6	21747.2	21738.1
55°	2329.9	2166.1	1965.8	1670.1	2034.1	3626.8	10434.5	21401.3	22884.8	23039.6
57.5°	2229.8	2088.7	1802.0	1533.5	1747.4	3340.1	10238.8	19458.3	21055.5	21082.8
60°	2097.8	1965.8	1633.7	1428.9	1433.4	2634.8	9155.8	15162.5	16614.1	17010.0
62.5°	1970.4	1897.6	1492.6	1278.7	1219.6	2097.8	7740.5	12600.5	14261.5	14589.1
65°	1820.2	1642.8	1369.7	1164.9	1046.6	1469.8	5483.4	9415.1	11126.2	11567.6
67.5°	1629.1	1438.0	1205.9	1023.9	896.5	982.9	2830.5	5351.5	7085.2	7344.6
70°	1424.3	1246.9	1014.8	864.6	723.5	678.0	1246.9	2552.9	3872.5	4141.0
72.5°	1169.5	1005.7	810.0	682.6	541.5	468.7	418.7	682.6	1374.3	1597.3
75°	846.4	732.6	609.8	486.9	382.2	300.3	245.7	204.8	227.5	245.7
77.5°	623.4	532.4	450.5	345.8	268.5	213.9	168.4	127.4	122.9	118.3
80°	486.9	432.3	359.5	277.6	209.3	159.3	118.3	86.5	77.4	77.4
82.5°	382.2	354.9	295.8	227.5	172.9	127.4	86.5	59.2	50.1	50.1
85°	145.6	145.6	213.9	186.6	132.0	91.0	59.2	31.9	27.3	27.3
87.5°	36.4	36.4	36.4	36.4	31.9	27.3	27.3	13.7	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)