

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: P456350

Luminaire Tested: **GALN-SA7C-760-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456350
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-SA7C-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1050mA 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: 35167 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

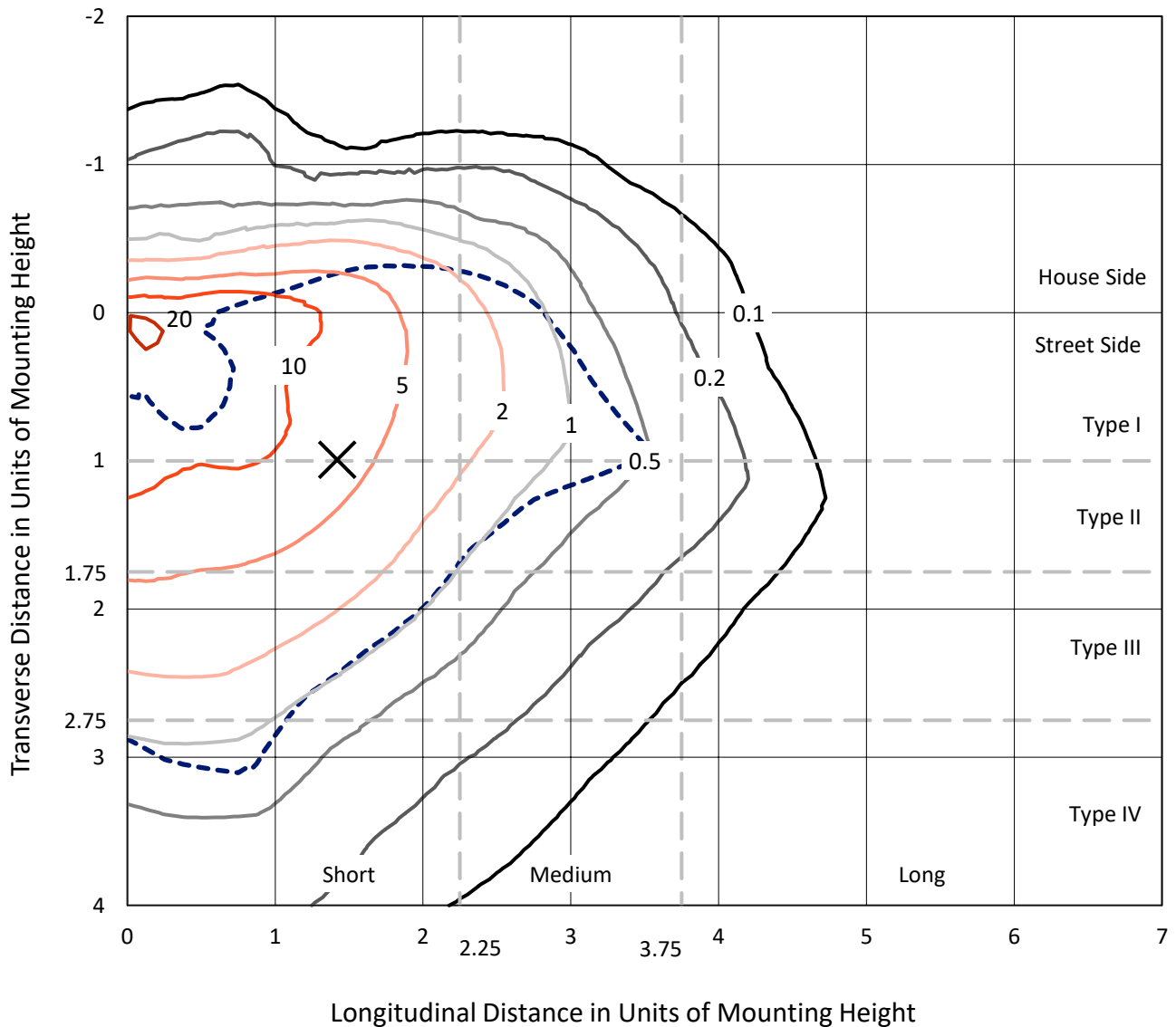
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

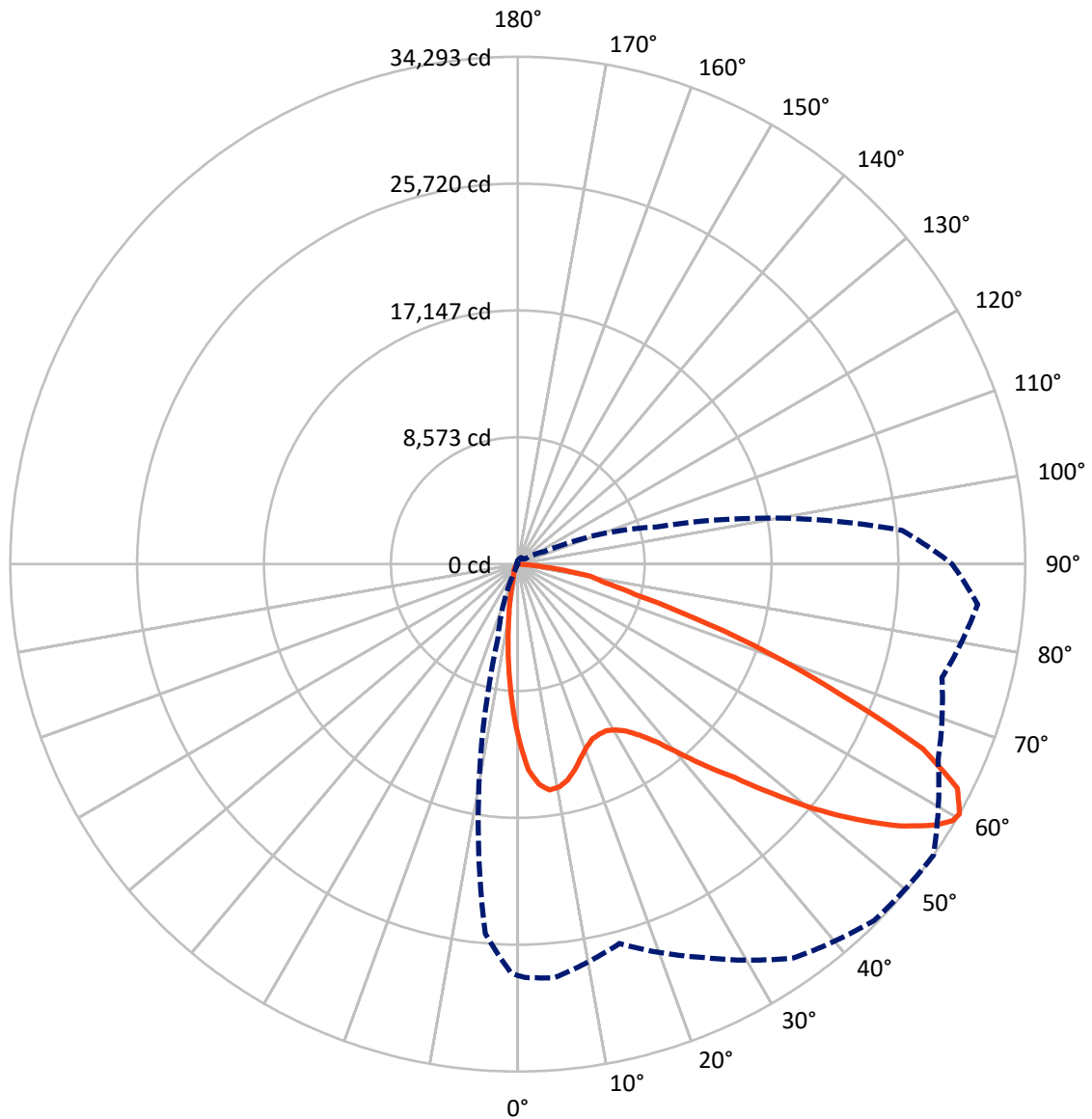
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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



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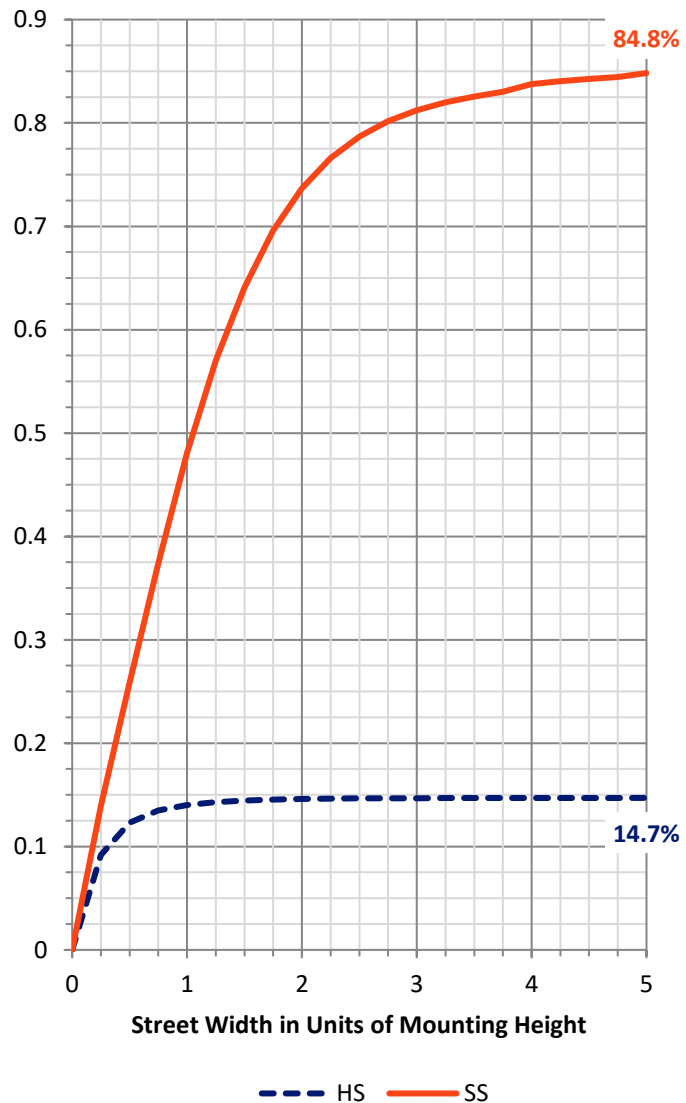
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5219.1	0.0	5219.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	29947.9	0.0	29947.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	35167.0	0.0	35167.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	881.8	2.5
10°-20°	1736.4	4.9
20°-30°	2570.2	7.3
30°-40°	3831.1	10.9
40°-50°	5610.7	16.0
50°-60°	8100.1	23.0
60°-70°	8520.9	24.2
70°-80°	3505.2	10.0
80°-90°	410.5	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°	35167.0	100.0
0°-180°	35167.0	100.0

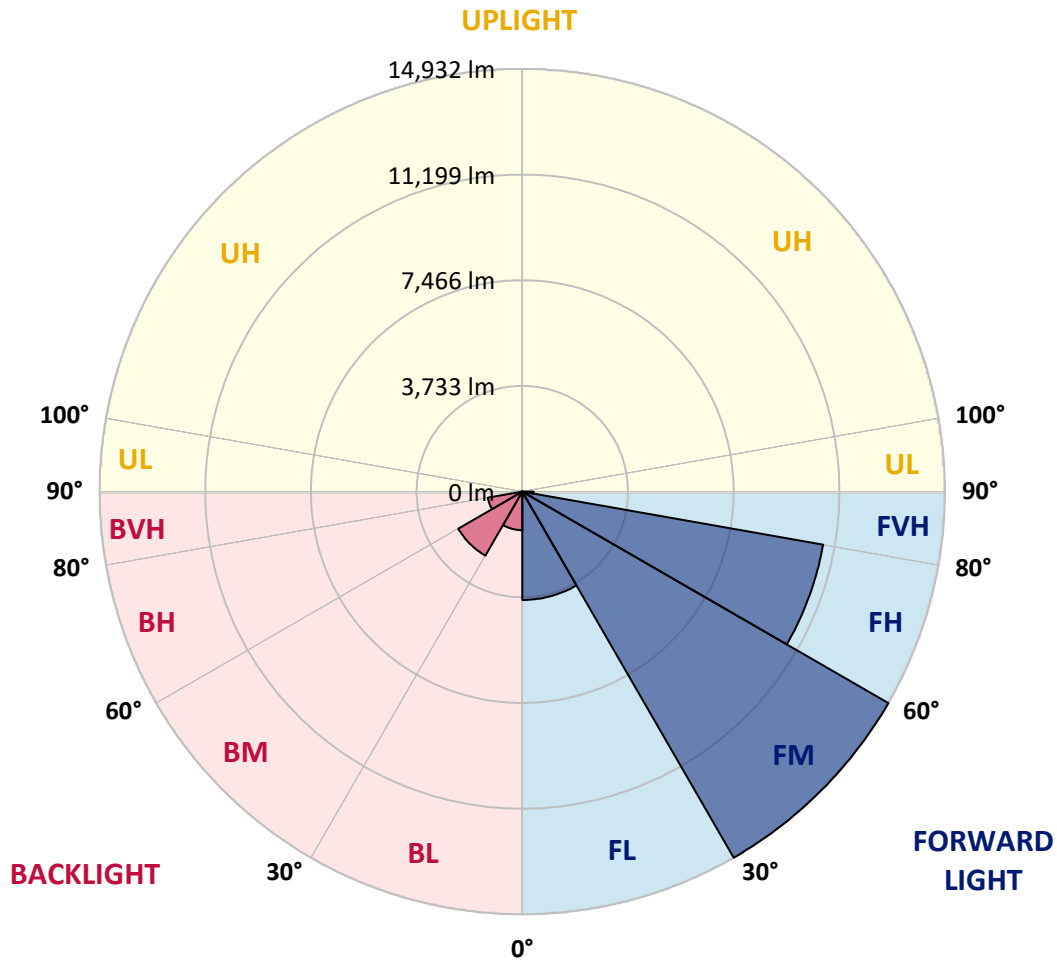


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3826.7	10.9			
FM	(30°-60°)	14932.0	42.5			
FH	(60°-80°)	10790.8	30.7			G4/12000
FVH	(80°-90°)	398.5	1.1			G3/500
BL	(0°-30°)	1361.7	3.9	B3/2500		
BM	(30°-60°)	2610.0	7.4	B3/5000		
BH	(60°-80°)	1235.3	3.5	B3/2500		G3/2500
BVH	(80°-90°)	12.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4
2.5°	13009.1	12987.5	13179.7	13493.7	13810.4	13975.5	13943.0	13929.5	13666.9	13474.7	13071.4
5°	12982.1	13093.1	13436.8	14286.8	14931.0	15242.3	15334.3	14947.2	14435.7	13694.0	12779.1
7.5°	12205.2	12343.3	12903.6	14232.6	15377.6	16054.3	16030.0	15410.1	14354.4	13206.7	11902.0
10°	11241.6	11404.0	12061.7	13675.0	15161.1	16054.3	16103.1	15318.1	14005.3	12532.7	11160.4
12.5°	10562.1	10754.3	11482.5	13155.3	14603.5	15483.2	15540.0	14971.6	13742.7	12272.9	10757.0
15°	10332.1	10513.4	11252.4	12892.7	14010.7	14484.4	14470.8	14411.3	13639.8	12335.1	10778.7
17.5°	10727.3	10876.1	11709.8	13011.8	13455.8	13407.0	13477.4	13764.4	13661.5	12857.6	11460.8
20°	11747.7	11899.3	12795.3	13377.3	13030.8	12722.2	12754.7	13233.8	13861.8	13840.1	12527.3
22.5°	13152.6	13409.8	14221.8	14086.5	12973.9	12297.2	12229.6	12852.1	14202.9	14971.6	13967.4
25°	14931.0	15190.9	15824.3	15217.9	13252.8	12197.1	12134.8	12735.7	14617.0	16076.0	15588.8
27.5°	16425.2	16622.8	17253.5	16319.6	13664.2	12240.4	12137.5	12752.0	14952.7	17015.3	16955.7
30°	17621.6	17767.8	18138.6	16833.9	14018.8	12429.9	12310.8	12990.2	15101.5	17472.7	18062.8
32.5°	18585.3	18831.6	18948.0	17383.4	14527.7	12787.2	12584.2	13447.6	15464.3	18038.5	19224.1
35°	19686.9	19971.2	19822.3	17908.5	15199.0	13344.8	13095.8	14189.3	16013.7	18560.9	20572.1
37.5°	21083.7	21411.2	20829.2	18460.7	15908.2	14183.9	14067.5	15231.5	16847.5	19308.0	22017.5
40°	22529.1	22718.6	21806.4	19132.0	16779.8	15404.7	15515.7	16779.8	17938.3	20204.0	23555.0
42.5°	23657.9	23836.6	22810.7	19695.1	17670.3	16852.9	17315.7	18647.5	19188.9	21121.6	24702.7
45°	24521.4	24673.0	23506.3	20309.5	18872.2	18950.7	19825.0	20572.1	20442.2	21681.9	25587.9
47.5°	25192.7	25322.6	24042.3	20970.0	20672.2	21516.8	22854.0	23170.7	21741.4	22288.2	26389.1
50°	25468.8	25506.7	24210.1	21811.8	22715.9	24786.7	26180.7	25988.5	23230.2	22962.2	27241.8
52.5°	25828.8	25820.7	24689.2	22613.1	24637.8	27710.1	29101.4	28665.6	24913.9	23971.9	28200.0
55°	26773.5	26784.3	25715.1	23749.9	26275.4	30070.4	31559.2	31242.5	26689.6	25677.2	29317.9
57.5°	27921.2	27961.8	27174.1	25079.0	27840.0	31781.2	33394.5	33272.6	29090.6	27574.7	30373.6
59°	28070.1	28151.3	27864.4	26015.6	28768.4	32306.3	34022.4	34141.5	30376.3	28825.3	30944.8
60°	27799.4	27934.7	28064.7	26546.1	29312.5	32495.8	34060.3	34293.1	31342.7	29675.2	31204.6
62.5°	26619.2	26833.0	27485.4	28178.3	29991.9	31905.7	32850.4	33337.6	32539.1	31908.4	31229.0
65°	25073.6	25184.6	26126.6	28468.0	28673.7	29150.1	29442.4	30067.7	31101.7	32769.2	30111.0
67.5°	22540.0	22867.5	24020.6	26787.0	24784.0	24220.9	24147.8	23525.3	26210.5	30717.4	27355.5
70°	18620.4	18766.6	20187.7	21960.7	18704.4	17838.2	18184.6	17951.9	20317.6	26443.3	22017.5
72.5°	14081.1	14411.3	15799.9	17505.2	12727.6	11604.3	12559.8	12473.2	15261.2	21251.5	15125.9
75°	10018.1	10231.9	12002.2	13699.4	8913.7	7552.1	7895.9	8218.0	10654.2	16779.8	8938.0
77.5°	6883.5	7067.6	8396.7	9059.8	6501.9	6228.5	5697.9	6009.2	6981.0	9955.8	4864.2
80°	4152.3	4144.2	5018.5	5180.9	4528.6	5259.4	4412.2	4953.5	4220.0	4260.6	1884.0
82.5°	2696.0	2669.0	3069.6	3345.7	2520.1	2650.0	1778.4	2563.4	2750.2	1188.3	595.5
85°	1207.3	1258.7	1475.2	1946.2	1104.4	587.4	362.7	787.7	1172.1	598.2	0.0
87.5°	124.5	97.4	259.9	473.7	151.6	16.2	54.1	27.1	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°	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4
2.5°	12884.6	12727.6	12259.3	11820.8	11444.6	10984.4	10686.7	10218.4	9934.2	9847.5	9861.1
5°	12367.6	11915.6	11025.0	10313.1	9520.0	9068.0	8380.4	7719.9	7362.6	7230.0	7170.5
7.5°	11284.9	10800.3	9725.7	8607.8	7757.8	6964.7	6453.1	5871.2	5473.3	5145.7	5088.9
10°	10480.9	9844.8	8513.1	7311.2	6639.9	6044.4	5532.8	4950.8	4482.5	4109.0	4006.1
12.5°	9999.1	9287.2	7801.2	6794.2	6158.1	5546.3	4880.5	4206.5	3727.3	3324.0	3137.2
15°	9912.5	9086.9	7600.8	6423.4	5638.4	4899.4	4014.3	3286.1	2793.5	2411.8	2295.4
17.5°	10434.9	9446.9	7571.1	6036.3	4959.0	3911.4	2991.1	2387.4	1832.5	1618.7	1534.8
20°	11366.1	10083.0	7568.4	5586.9	4260.6	3012.7	2100.5	1556.4	1331.8	1228.9	1180.2
22.5°	12635.6	10949.2	7711.8	5199.9	3535.2	2222.3	1499.6	1239.7	1109.8	1025.9	1006.9
25°	14186.6	12232.3	8063.7	4937.3	2980.2	1743.2	1237.0	1061.1	952.8	914.9	898.7
27.5°	15564.4	13461.2	8450.8	4666.6	2582.3	1542.9	1147.7	971.8	885.1	855.4	831.0
30°	16752.7	14576.4	8637.6	4309.3	2262.9	1413.0	1163.9	1039.4	925.7	836.4	795.8
32.5°	17743.4	15431.8	8759.4	3984.5	1992.2	1155.8	920.3	803.9	752.5	720.0	693.0
35°	18983.2	16357.5	8686.3	3800.4	1854.2	1053.0	839.1	693.0	606.3	541.4	514.3
37.5°	20282.5	17283.3	8559.1	3648.8	1791.9	977.2	798.5	657.8	563.0	495.4	460.2
40°	21627.8	18141.3	8410.2	3508.1	1735.1	928.5	774.2	628.0	533.3	460.2	422.3
42.5°	22859.4	18977.8	8350.6	3416.0	1643.1	936.6	755.2	614.5	503.5	427.7	395.2
45°	23855.5	19770.9	8431.8	3367.3	1542.9	923.0	760.6	598.2	479.1	406.0	373.5
47.5°	24919.3	20891.5	8694.4	3318.6	1445.5	858.1	801.2	595.5	468.3	392.5	357.3
50°	26156.3	22326.1	9295.3	3199.5	1326.4	787.7	852.7	592.8	454.8	376.3	341.1
52.5°	27804.8	23955.7	9915.2	2991.1	1153.1	720.0	814.8	584.7	427.7	357.3	322.1
55°	29285.4	25671.8	10440.3	2744.7	933.9	622.6	733.6	549.5	381.7	324.8	292.3
57.5°	29897.2	26640.9	10424.1	2403.7	747.1	546.8	603.6	503.5	332.9	286.9	259.9
59°	29672.5	26519.0	10074.9	2151.9	682.1	506.2	500.8	498.1	311.3	259.9	238.2
60°	29355.8	26075.1	9698.7	2027.4	641.5	479.1	460.2	492.6	292.3	243.6	222.0
62.5°	28143.2	24234.5	8450.8	1816.3	587.4	406.0	368.1	416.9	259.9	211.1	192.2
65°	26386.4	21405.8	7154.2	1756.7	571.1	335.6	305.9	297.8	222.0	178.7	162.4
67.5°	22959.5	18114.3	5795.4	1716.1	576.6	281.5	268.0	224.7	184.1	148.9	138.0
70°	18382.2	14124.4	4745.1	1670.1	582.0	230.1	224.7	178.7	148.9	124.5	113.7
72.5°	11168.5	8372.3	3735.5	1450.9	565.7	184.1	200.3	135.3	108.3	89.3	83.9
75°	6905.2	5730.4	2317.1	1128.8	373.5	135.3	140.8	83.9	73.1	56.8	56.8
77.5°	4000.7	3619.1	828.3	406.0	165.1	81.2	62.3	43.3	40.6	24.4	24.4
80°	1659.3	1329.1	286.9	138.0	89.3	37.9	13.5	2.7	0.0	0.0	0.0
82.5°	484.5	430.4	78.5	62.3	27.1	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°	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4
2.5°	9631.0	9541.7	9501.1	9639.1	9511.9	9674.3	9549.8	9603.9	9763.6	9834.0	10015.4
5°	7208.4	7116.3	7073.0	7281.4	7270.6	7373.5	7362.6	7457.4	7538.6	7357.2	7544.0
7.5°	5021.2	4959.0	5061.8	5224.2	5397.5	5340.6	5340.6	5213.4	5256.7	5229.6	5221.5
10°	3819.4	3605.5	3551.4	3546.0	3610.9	3624.5	3551.4	3375.4	3440.4	3459.4	3573.0
12.5°	3004.6	2839.5	2587.8	2474.1	2444.3	2468.7	2227.7	2073.4	2146.5	2103.2	2214.2
15°	2154.7	2019.3	1870.4	1743.2	1708.0	1659.3	1396.7	1212.7	1191.0	1199.1	1218.1
17.5°	1537.5	1445.5	1445.5	1310.1	1237.0	1090.9	958.2	877.0	868.9	877.0	890.6
20°	1134.2	1085.4	1080.0	1044.8	963.6	866.2	774.2	757.9	752.5	766.0	771.5
22.5°	977.2	925.7	882.4	879.7	803.9	722.7	679.4	657.8	660.5	665.9	679.4
25°	874.3	820.2	774.2	747.1	693.0	636.1	595.5	584.7	584.7	592.8	595.5
27.5°	801.2	733.6	693.0	655.1	606.3	557.6	522.4	514.3	508.9	514.3	527.8
30°	749.8	682.1	630.7	573.9	536.0	489.9	460.2	449.3	446.6	449.3	460.2
32.5°	641.5	600.9	560.3	508.9	462.9	433.1	400.6	381.7	381.7	387.1	397.9
35°	484.5	462.9	460.2	446.6	408.7	376.3	338.4	319.4	319.4	330.2	335.6
37.5°	427.7	387.1	381.7	376.3	360.0	316.7	281.5	265.3	262.6	270.7	281.5
40°	389.8	343.8	319.4	314.0	316.7	268.0	230.1	213.8	213.8	216.5	227.4
42.5°	360.0	305.9	262.6	257.2	268.0	224.7	186.8	170.5	170.5	170.5	184.1
45°	335.6	273.4	222.0	194.9	211.1	184.1	151.6	135.3	129.9	135.3	140.8
47.5°	319.4	249.0	194.9	157.0	157.0	146.2	121.8	102.9	97.4	100.2	108.3
50°	305.9	227.4	165.1	127.2	113.7	116.4	92.0	78.5	73.1	73.1	81.2
52.5°	284.2	205.7	143.5	108.3	86.6	78.5	67.7	56.8	54.1	56.8	62.3
55°	257.2	186.8	124.5	89.3	67.7	54.1	48.7	40.6	37.9	40.6	48.7
57.5°	227.4	157.0	100.2	70.4	46.0	35.2	32.5	27.1	21.7	24.4	29.8
59°	208.4	140.8	86.6	56.8	35.2	24.4	24.4	18.9	13.5	16.2	24.4
60°	200.3	129.9	73.1	48.7	29.8	18.9	18.9	13.5	8.1	10.8	18.9
62.5°	170.5	108.3	56.8	29.8	13.5	2.7	8.1	2.7	0.0	2.7	8.1
65°	143.5	86.6	37.9	13.5	0.0	0.0	0.0	0.0	0.0	0.0	2.7
67.5°	119.1	65.0	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	94.7	43.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	65.0	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	40.6	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	16.2	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: P456350

CATALOG NUMBER: GALN-SA7C-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4	11907.4
2.5°	10026.2	10413.3	10651.5	11100.8	11561.0	11915.6	12359.5	12757.4	12922.5	13009.1
5°	7733.5	8272.1	8729.6	9414.4	10050.5	10824.7	11609.7	12535.4	12890.0	12982.1
7.5°	5427.2	5976.7	6455.8	7249.0	8155.7	9192.5	10367.2	11542.0	12059.0	12205.2
10°	3919.5	4506.9	5091.6	5884.7	6731.9	7855.3	9078.8	10532.4	11127.9	11241.6
12.5°	2474.1	3104.8	4054.9	5034.7	5930.7	6834.8	8115.1	9695.9	10353.7	10562.1
15°	1434.6	1905.6	2622.9	3900.6	5040.2	6236.6	7633.3	9382.0	10118.2	10332.1
17.5°	960.9	1123.3	1616.0	2593.2	4098.2	5684.4	7511.5	9639.1	10453.9	10727.3
20°	809.3	882.4	1055.7	1580.8	3156.2	5191.7	7544.0	10337.5	11406.7	11747.7
22.5°	711.9	779.6	890.6	1136.9	2203.4	4580.0	7698.3	11336.3	12716.8	13152.6
25°	628.0	695.7	793.1	942.0	1480.6	3873.5	8036.6	12798.0	14451.9	14931.0
27.5°	557.6	619.9	703.8	831.0	1139.6	3085.8	8337.1	14221.8	16035.4	16425.2
30°	492.6	544.1	625.3	722.7	947.4	2379.3	8488.7	15467.0	17188.5	17621.6
32.5°	427.7	476.4	554.9	633.4	779.6	1813.6	8383.1	16381.9	18309.2	18585.3
35°	365.4	416.9	481.8	554.9	674.0	1464.4	7855.3	17410.5	19470.4	19686.9
37.5°	314.0	357.3	425.0	481.8	609.0	1172.1	7216.5	18336.2	20772.4	21083.7
40°	265.3	308.6	376.3	427.7	560.3	923.0	6639.9	19364.8	22144.8	22529.1
42.5°	216.5	268.0	327.5	411.4	481.8	703.8	5941.5	20198.5	23176.1	23657.9
45°	173.2	230.1	295.0	408.7	419.6	536.0	5267.5	20848.2	24088.3	24521.4
47.5°	138.0	194.9	284.2	381.7	343.8	425.0	4883.2	21527.6	24846.2	25192.7
50°	111.0	162.4	297.8	335.6	286.9	360.0	4872.3	22285.5	25238.7	25468.8
52.5°	89.3	132.6	251.7	257.2	243.6	316.7	5164.7	23138.2	25639.3	25828.8
55°	75.8	111.0	165.1	189.5	219.3	286.9	5383.9	24451.0	26594.8	26773.5
57.5°	59.6	94.7	127.2	151.6	194.9	262.6	5413.7	25463.4	27804.8	27921.2
59°	51.4	81.2	113.7	135.3	178.7	246.3	5291.9	25525.6	27883.3	28070.1
60°	43.3	73.1	100.2	127.2	165.1	232.8	5159.3	25073.6	27591.0	27799.4
62.5°	32.5	56.8	73.1	102.9	135.3	200.3	4531.3	23495.5	26473.0	26619.2
65°	21.7	40.6	54.1	75.8	105.6	173.2	3692.1	21449.1	24746.1	25073.6
67.5°	13.5	29.8	43.3	56.8	86.6	146.2	2631.1	18393.1	22328.8	22540.0
70°	8.1	18.9	32.5	46.0	67.7	116.4	1561.9	14538.5	18577.1	18620.4
72.5°	5.4	13.5	21.7	32.5	54.1	105.6	757.9	9476.7	13564.0	14081.1
75°	2.7	8.1	13.5	24.4	43.3	86.6	362.7	6331.3	9869.2	10018.1
77.5°	0.0	2.7	8.1	16.2	32.5	67.7	211.1	4157.7	6729.2	6883.5
80°	0.0	0.0	5.4	13.5	24.4	43.3	127.2	2452.4	4076.5	4152.3
82.5°	0.0	0.0	2.7	10.8	16.2	32.5	65.0	1077.3	2669.0	2696.0
85°	0.0	0.0	2.7	10.8	13.5	21.7	24.4	146.2	1185.6	1207.3
87.5°	0.0	0.0	2.7	13.5	13.5	13.5	13.5	8.1	100.2	124.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)