

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: P650856

Luminaire Tested: **GALN-SA4C-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650856
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-SA4C-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 16797.3 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

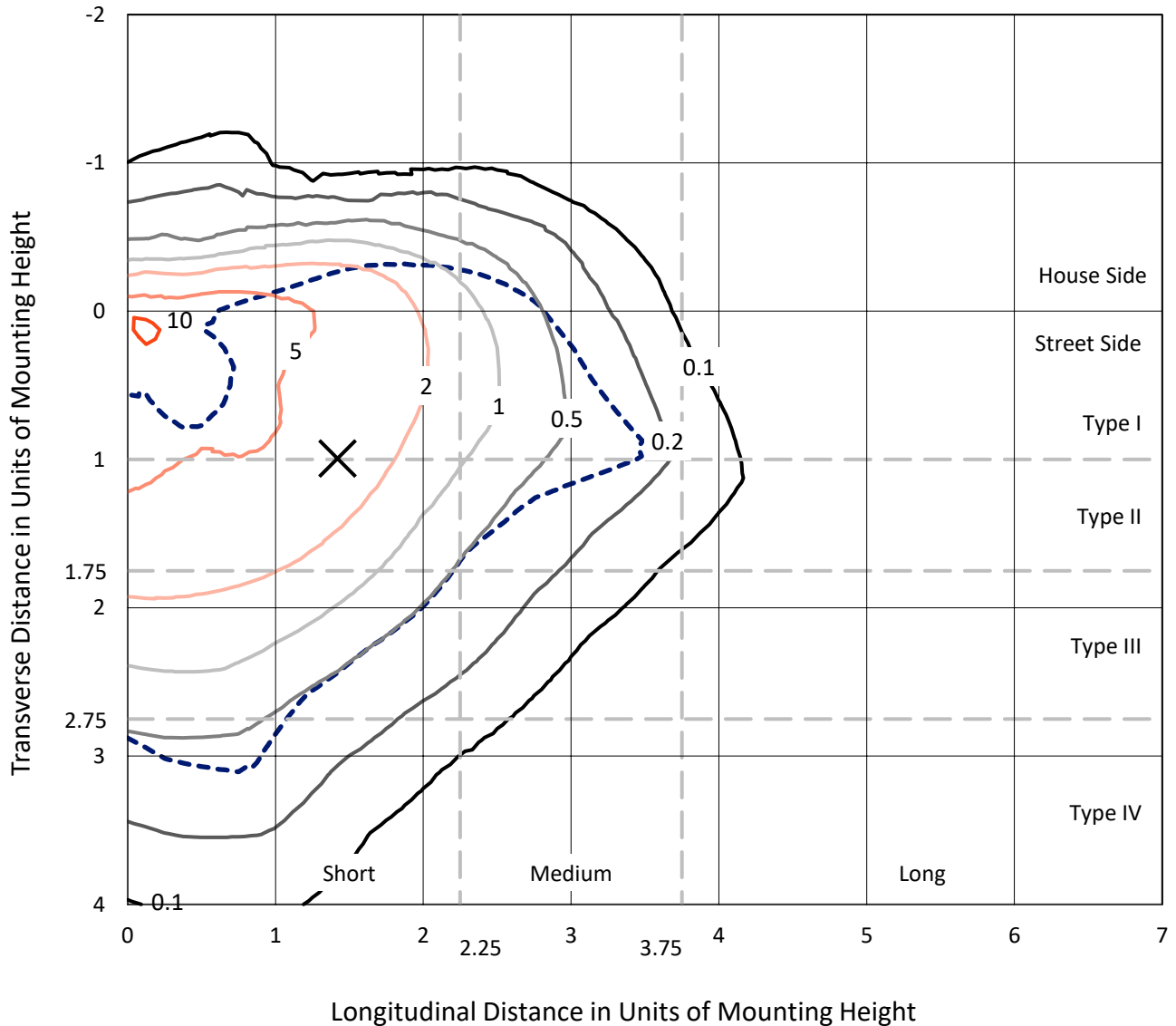
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

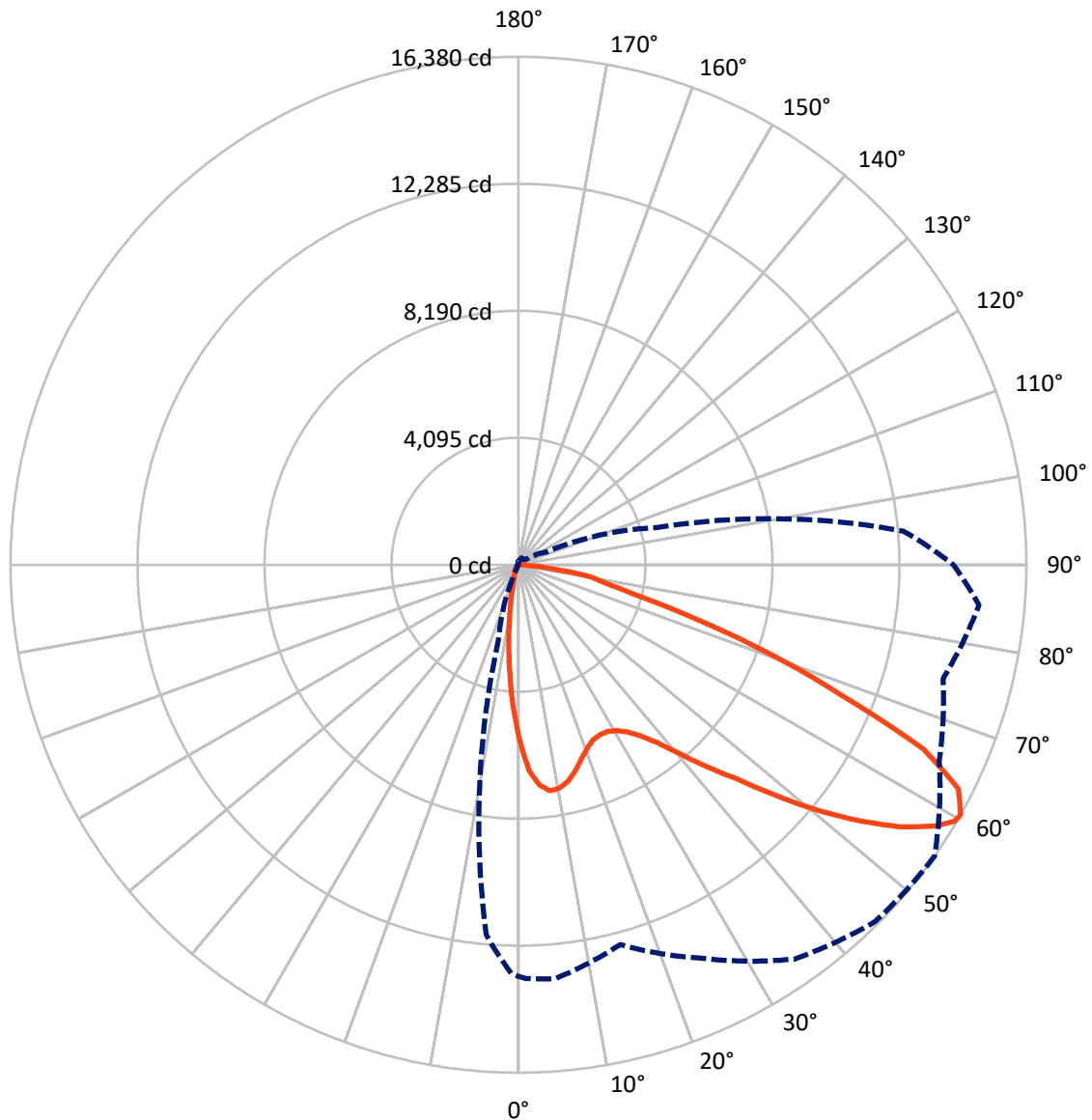
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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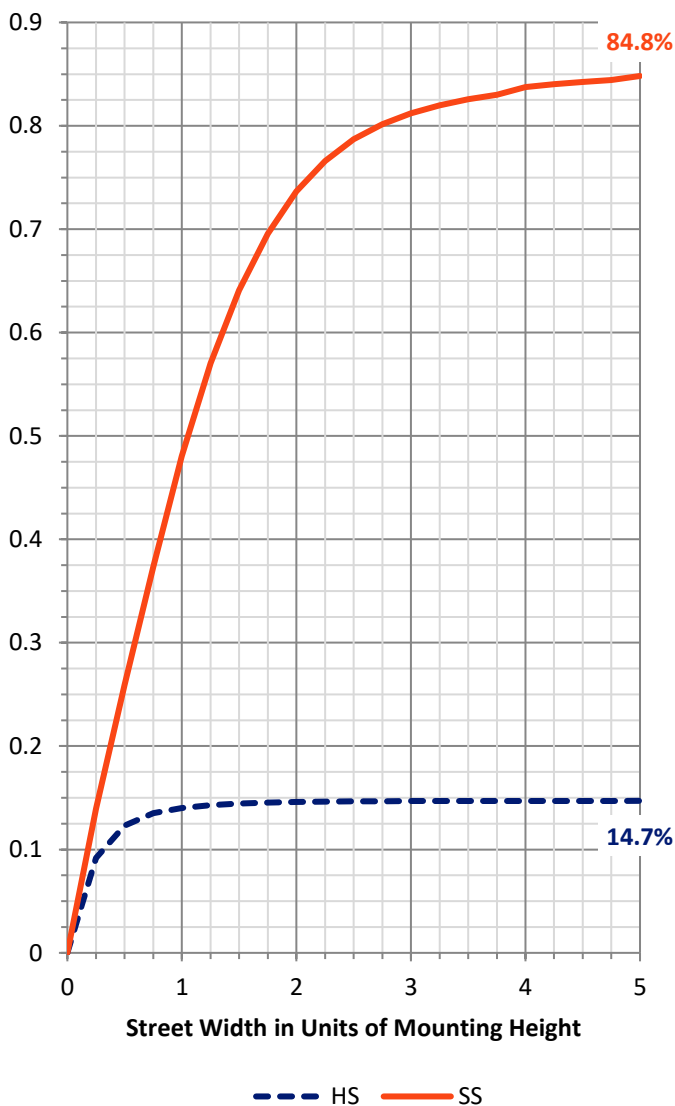
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2492.9	0.0	2492.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	14304.4	0.0	14304.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	16797.3	0.0	16797.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.2	2.5
10°-20°	829.4	4.9
20°-30°	1227.6	7.3
30°-40°	1829.9	10.9
40°-50°	2679.9	16.0
50°-60°	3869.0	23.0
60°-70°	4070.0	24.2
70°-80°	1674.2	10.0
80°-90°	196.1	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°	16797.3	100.0
0°-180°	16797.3	100.0

Coefficient of Utilization



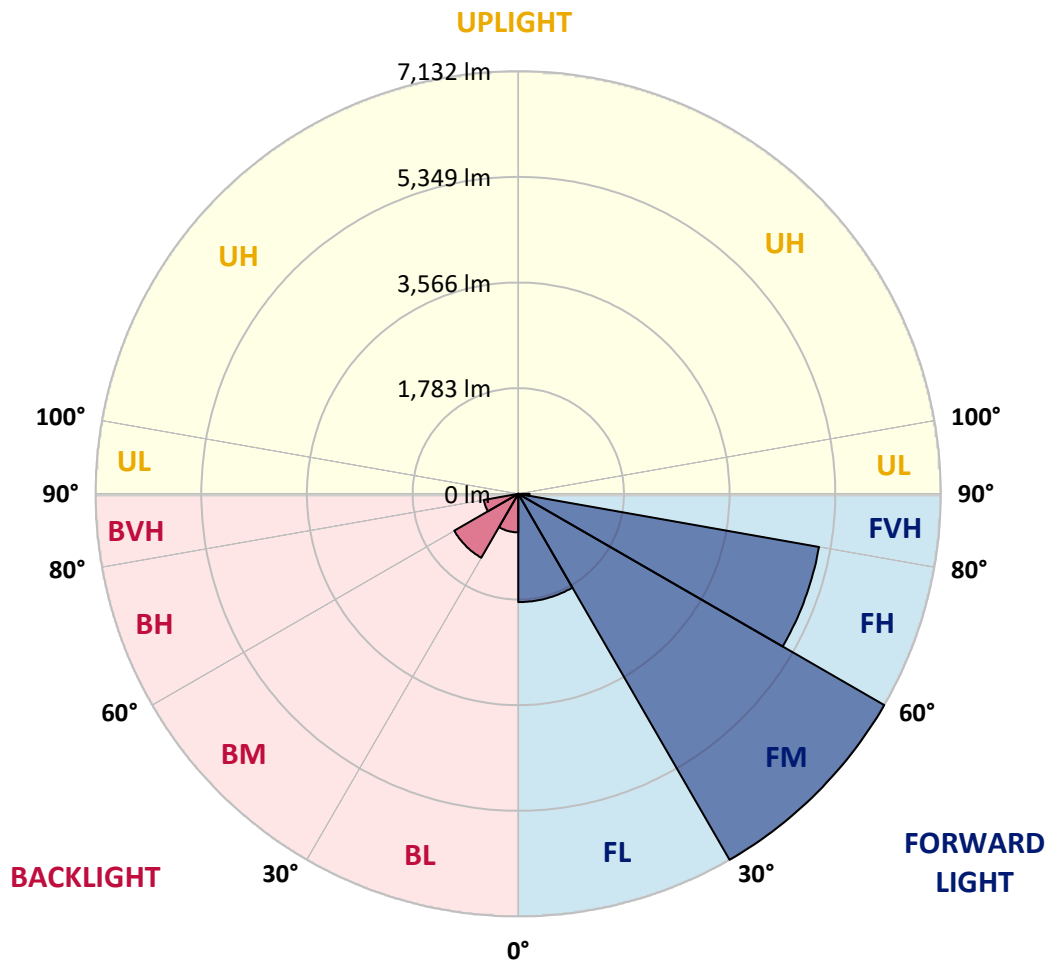
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1827.8	10.9			
FM (30°-60°)	7132.2	42.5			
FH (60°-80°)	5154.2	30.7			G3/7500
FVH (80°-90°)	190.3	1.1			G2/225
BL (0°-30°)	650.4	3.9	B2/1000		
BM (30°-60°)	1246.7	7.4	B2/2500		
BH (60°-80°)	590.0	3.5	B2/1000		G2/1000
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5
2.5°	6213.7	6203.4	6295.2	6445.2	6596.5	6675.3	6659.8	6653.3	6527.9	6436.1	6243.5
5°	6200.8	6253.8	6418.0	6824.0	7131.7	7280.4	7324.4	7139.4	6895.1	6540.9	6103.8
7.5°	5829.7	5895.7	6163.3	6798.1	7345.0	7668.2	7656.6	7360.5	6856.3	6308.1	5684.9
10°	5369.4	5447.1	5761.2	6531.8	7241.6	7668.2	7691.5	7316.6	6689.5	5986.2	5330.7
12.5°	5044.9	5136.7	5484.5	6283.5	6975.3	7395.4	7422.6	7151.1	6564.1	5862.0	5138.0
15°	4935.1	5021.7	5374.7	6158.1	6692.1	6918.4	6911.9	6883.5	6515.0	5891.8	5148.3
17.5°	5123.8	5194.9	5593.2	6215.0	6427.1	6403.8	6437.4	6574.4	6525.3	6141.3	5474.2
20°	5611.2	5683.6	6111.6	6389.6	6224.1	6076.6	6092.2	6321.0	6621.0	6610.7	5983.6
22.5°	6282.3	6405.1	6792.9	6728.3	6196.9	5873.7	5841.3	6138.7	6783.9	7151.1	6671.4
25°	7131.7	7255.8	7558.3	7268.8	6330.1	5825.9	5796.1	6083.1	6981.7	7678.6	7445.9
27.5°	7845.4	7939.8	8241.0	7795.0	6526.6	5846.5	5797.4	6090.9	7142.0	8127.3	8098.8
30°	8416.8	8486.7	8663.8	8040.6	6696.0	5937.0	5880.2	6204.6	7213.2	8345.7	8627.6
32.5°	8877.1	8994.7	9050.3	8303.1	6939.1	6107.7	6010.7	6423.2	7386.4	8616.0	9182.3
35°	9403.3	9539.1	9468.0	8553.9	7259.7	6374.0	6255.1	6777.5	7648.9	8865.5	9826.2
37.5°	10070.5	10226.9	9948.9	8817.6	7598.4	6774.8	6719.3	7275.2	8047.1	9222.3	10516.5
40°	10760.9	10851.4	10415.7	9138.3	8014.7	7358.0	7411.0	8014.7	8568.1	9650.3	11250.9
42.5°	11300.0	11385.4	10895.3	9407.3	8440.1	8049.6	8270.7	8906.9	9165.5	10088.6	11799.1
45°	11712.5	11784.8	11227.6	9700.7	9014.2	9051.7	9469.3	9826.2	9764.1	10356.2	12221.9
47.5°	12033.1	12095.2	11483.6	10016.2	9873.9	10277.4	10916.0	11067.3	10384.7	10645.8	12604.6
50°	12165.0	12183.1	11563.8	10418.3	10850.1	11839.2	12505.0	12413.2	11095.7	10967.7	13011.9
52.5°	12337.0	12333.1	11792.7	10801.0	11768.1	13235.6	13900.0	13691.9	11900.0	11450.0	13469.5
55°	12788.2	12793.4	12282.6	11344.0	12550.3	14362.9	15074.1	14922.8	12748.1	12264.6	14003.5
57.5°	13336.4	13355.8	12979.6	11978.8	13297.6	15180.0	15950.7	15892.5	13894.9	13170.9	14507.8
59°	13407.5	13446.2	13309.2	12426.2	13741.1	15430.9	16250.6	16307.5	14509.0	13768.2	14780.6
60°	13278.2	13342.9	13404.9	12679.6	14001.0	15521.4	16268.7	16379.9	14970.6	14174.2	14904.7
62.5°	12714.5	12816.7	13128.3	13459.2	14325.4	15239.5	15690.8	15923.5	15542.1	15240.9	14916.3
65°	11976.3	12029.2	12479.2	13597.5	13695.8	13923.3	14063.0	14361.7	14855.6	15652.0	14382.4
67.5°	10766.1	10922.5	11473.3	12794.6	11837.9	11569.0	11534.1	11236.7	12519.3	14671.9	13066.2
70°	8893.9	8963.7	9642.6	10489.4	8934.0	8520.3	8685.8	8574.6	9704.6	12630.5	10516.5
72.5°	6725.7	6883.5	7546.7	8361.2	6079.3	5542.7	5999.1	5957.7	7289.5	10150.6	7224.8
75°	4785.0	4887.2	5732.8	6543.4	4257.6	3607.2	3771.4	3925.3	5088.9	8014.7	4269.2
77.5°	3287.9	3375.8	4010.6	4327.4	3105.6	2975.0	2721.6	2870.2	3334.4	4755.4	2323.3
80°	1983.3	1979.5	2397.0	2474.6	2163.1	2512.2	2107.5	2366.1	2015.6	2035.1	899.9
82.5°	1287.7	1274.8	1466.2	1598.1	1203.7	1265.8	849.4	1224.4	1313.6	567.6	284.4
85°	576.7	601.2	704.7	929.6	527.5	280.6	173.2	376.3	559.9	285.8	0.0
87.5°	59.5	46.5	124.1	226.2	72.4	7.7	25.8	13.0	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°	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5
2.5°	6154.3	6079.3	5855.6	5646.1	5466.4	5246.7	5104.4	4880.7	4745.0	4703.6	4710.1
5°	5907.4	5691.4	5266.0	4926.0	4547.2	4331.2	4002.8	3687.4	3516.7	3453.4	3424.9
7.5°	5390.1	5158.7	4645.4	4111.5	3705.4	3326.7	3082.3	2804.3	2614.2	2457.8	2430.7
10°	5006.1	4702.3	4066.2	3492.2	3171.5	2887.1	2642.7	2364.7	2141.1	1962.6	1913.5
12.5°	4776.0	4435.9	3726.1	3245.2	2941.4	2649.2	2331.1	2009.1	1780.3	1587.7	1498.5
15°	4734.7	4340.3	3630.5	3068.1	2693.1	2340.2	1917.4	1569.6	1334.2	1152.0	1096.4
17.5°	4984.2	4512.3	3616.3	2883.2	2368.6	1868.3	1428.7	1140.3	875.3	773.1	733.1
20°	5428.9	4816.1	3615.0	2668.6	2035.1	1439.0	1003.3	743.4	636.1	587.0	563.7
22.5°	6035.3	5229.8	3683.5	2483.6	1688.6	1061.5	716.3	592.1	530.1	490.1	481.0
25°	6776.2	5842.7	3851.6	2358.2	1423.5	832.7	590.9	506.8	455.1	437.0	429.2
27.5°	7434.3	6429.6	4036.5	2229.0	1233.4	737.0	548.2	464.1	422.8	408.6	397.0
30°	8001.9	6962.3	4125.7	2058.3	1080.9	674.9	556.0	496.4	442.2	399.5	380.1
32.5°	8475.0	7370.9	4183.9	1903.2	951.6	552.0	439.6	384.0	359.4	343.9	331.0
35°	9067.2	7813.1	4149.0	1815.2	885.7	502.9	400.8	331.0	289.6	258.6	245.7
37.5°	9687.8	8255.3	4088.2	1742.8	855.9	466.8	381.4	314.2	269.0	236.6	219.8
40°	10330.3	8665.1	4017.0	1675.6	828.7	443.5	369.8	300.0	254.7	219.8	201.7
42.5°	10918.6	9064.6	3988.6	1631.6	784.8	447.3	360.7	293.5	240.4	204.3	188.8
45°	11394.5	9443.4	4027.4	1608.4	737.0	440.9	363.3	285.8	228.8	193.9	178.5
47.5°	11902.5	9978.7	4152.9	1585.1	690.4	409.8	382.7	284.4	223.7	187.5	170.6
50°	12493.4	10664.0	4439.9	1528.2	633.5	376.3	407.3	283.2	217.2	179.7	162.9
52.5°	13280.8	11442.2	4735.9	1428.7	550.8	343.9	389.1	279.3	204.3	170.6	153.8
55°	13988.0	12261.9	4986.8	1311.0	446.1	297.4	350.4	262.5	182.3	155.2	139.6
57.5°	14280.2	12724.8	4979.0	1148.1	356.8	261.1	288.3	240.4	159.0	137.1	124.1
59°	14172.9	12666.6	4812.2	1027.9	325.8	241.8	239.2	237.9	148.7	124.1	113.8
60°	14021.7	12454.6	4632.5	968.4	306.5	228.8	219.8	235.3	139.6	116.4	106.1
62.5°	13442.4	11575.4	4036.5	867.6	280.6	193.9	175.9	199.1	124.1	100.8	91.8
65°	12603.3	10224.4	3417.2	839.1	272.8	160.3	146.1	142.2	106.1	85.4	77.5
67.5°	10966.5	8652.1	2768.2	819.7	275.4	134.5	128.0	107.3	87.9	71.1	65.9
70°	8780.1	6746.4	2266.5	797.7	278.0	109.9	107.3	85.4	71.1	59.5	54.3
72.5°	5334.5	3999.0	1784.2	693.0	270.2	87.9	95.7	64.7	51.7	42.6	40.1
75°	3298.2	2737.1	1106.8	539.2	178.5	64.7	67.2	40.1	34.9	27.2	27.2
77.5°	1910.9	1728.6	395.6	193.9	78.9	38.8	29.8	20.7	19.4	11.6	11.6
80°	792.6	634.8	137.1	65.9	42.6	18.1	6.5	1.3	0.0	0.0	0.0
82.5°	231.4	205.5	37.5	29.8	13.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5
2.5°	4600.2	4557.5	4538.1	4604.1	4543.3	4620.9	4561.4	4587.2	4663.5	4697.2	4783.8
5°	3443.1	3399.1	3378.4	3478.0	3472.7	3521.9	3516.7	3562.0	3600.7	3514.1	3603.3
7.5°	2398.4	2368.6	2417.7	2495.3	2578.1	2550.9	2550.9	2490.1	2510.8	2497.9	2494.0
10°	1824.3	1722.2	1696.3	1693.7	1724.7	1731.2	1696.3	1612.3	1643.3	1652.3	1706.6
12.5°	1435.2	1356.3	1236.0	1181.7	1167.5	1179.2	1064.0	990.4	1025.3	1004.6	1057.6
15°	1029.1	964.5	893.4	832.7	815.9	792.6	667.2	579.2	568.9	572.7	581.8
17.5°	734.4	690.4	690.4	625.8	590.9	521.1	457.7	418.9	415.0	418.9	425.4
20°	541.7	518.5	515.9	499.0	460.3	413.8	369.8	362.1	359.4	365.9	368.4
22.5°	466.8	442.2	421.5	420.2	384.0	345.2	324.5	314.2	315.5	318.1	324.5
25°	417.6	391.7	369.8	356.8	331.0	303.9	284.4	279.3	279.3	283.2	284.4
27.5°	382.7	350.4	331.0	312.9	289.6	266.3	249.5	245.7	243.0	245.7	252.1
30°	358.1	325.8	301.2	274.1	256.0	234.1	219.8	214.6	213.4	214.6	219.8
32.5°	306.5	287.0	267.6	243.0	221.1	206.9	191.3	182.3	182.3	184.9	190.1
35°	231.4	221.1	219.8	213.4	195.2	179.7	161.6	152.6	152.6	157.8	160.3
37.5°	204.3	184.9	182.3	179.7	172.0	151.3	134.5	126.7	125.4	129.3	134.5
40°	186.2	164.2	152.6	150.0	151.3	128.0	109.9	102.2	102.2	103.4	108.6
42.5°	172.0	146.1	125.4	122.8	128.0	107.3	89.2	81.5	81.5	81.5	87.9
45°	160.3	130.6	106.1	93.1	100.8	87.9	72.4	64.7	62.1	64.7	67.2
47.5°	152.6	118.9	93.1	75.0	75.0	69.8	58.2	49.1	46.5	47.9	51.7
50°	146.1	108.6	78.9	60.8	54.3	55.6	44.0	37.5	34.9	34.9	38.8
52.5°	135.7	98.2	68.5	51.7	41.4	37.5	32.3	27.2	25.8	27.2	29.8
55°	122.8	89.2	59.5	42.6	32.3	25.8	23.3	19.4	18.1	19.4	23.3
57.5°	108.6	75.0	47.9	33.6	22.0	16.8	15.5	13.0	10.3	11.6	14.2
59°	99.6	67.2	41.4	27.2	16.8	11.6	11.6	9.1	6.5	7.7	11.6
60°	95.7	62.1	34.9	23.3	14.2	9.1	9.1	6.5	3.9	5.1	9.1
62.5°	81.5	51.7	27.2	14.2	6.5	1.3	3.9	1.3	0.0	1.3	3.9
65°	68.5	41.4	18.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0	1.3
67.5°	56.9	31.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	45.2	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	31.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.7	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: P650856
 CATALOG NUMBER: GALN-SA4C-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5	5687.5
2.5°	4788.9	4973.8	5087.6	5302.3	5522.0	5691.4	5903.4	6093.5	6172.4	6213.7
5°	3693.8	3951.1	4169.7	4496.7	4800.6	5170.4	5545.3	5987.5	6156.9	6200.8
7.5°	2592.3	2854.8	3083.6	3462.4	3895.5	4390.7	4951.9	5513.0	5759.9	5829.7
10°	1872.2	2152.7	2432.0	2810.8	3215.5	3752.0	4336.4	5030.7	5315.1	5369.4
12.5°	1181.7	1482.9	1936.8	2404.8	2832.7	3264.6	3876.2	4631.2	4945.4	5044.9
15°	685.2	910.2	1252.8	1863.1	2407.4	2978.9	3646.0	4481.3	4832.9	4935.1
17.5°	459.0	536.6	771.9	1238.6	1957.4	2715.1	3587.8	4604.1	4993.2	5123.8
20°	386.6	421.5	504.3	755.0	1507.6	2479.8	3603.3	4937.6	5448.3	5611.2
22.5°	340.0	372.4	425.4	543.0	1052.4	2187.6	3677.0	5414.7	6074.1	6282.3
25°	300.0	332.3	378.8	449.9	707.2	1850.1	3838.7	6112.9	6902.8	7131.7
27.5°	266.3	296.1	336.1	397.0	544.3	1473.9	3982.1	6792.9	7659.2	7845.4
30°	235.3	259.9	298.6	345.2	452.5	1136.4	4054.5	7387.7	8210.0	8416.8
32.5°	204.3	227.6	265.1	302.5	372.4	866.2	4004.2	7824.7	8745.2	8877.1
35°	174.5	199.1	230.1	265.1	321.9	699.5	3752.0	8316.0	9299.9	9403.3
37.5°	150.0	170.6	203.0	230.1	290.9	559.9	3446.9	8758.2	9921.8	10070.5
40°	126.7	147.4	179.7	204.3	267.6	440.9	3171.5	9249.5	10577.3	10760.9
42.5°	103.4	128.0	156.4	196.5	230.1	336.1	2838.0	9647.7	11069.9	11300.0
45°	82.8	109.9	141.0	195.2	200.4	256.0	2516.0	9958.0	11505.6	11712.5
47.5°	65.9	93.1	135.7	182.3	164.2	203.0	2332.4	10282.5	11867.6	12033.1
50°	53.0	77.5	142.2	160.3	137.1	172.0	2327.2	10644.5	12055.1	12165.0
52.5°	42.6	63.3	120.3	122.8	116.4	151.3	2466.9	11051.8	12246.5	12337.0
55°	36.2	53.0	78.9	90.5	104.7	137.1	2571.6	11678.9	12702.9	12788.2
57.5°	28.4	45.2	60.8	72.4	93.1	125.4	2585.8	12162.5	13280.8	13336.4
59°	24.6	38.8	54.3	64.7	85.4	117.7	2527.6	12192.1	13318.2	13407.5
60°	20.7	34.9	47.9	60.8	78.9	111.2	2464.3	11976.3	13178.6	13278.2
62.5°	15.5	27.2	34.9	49.1	64.7	95.7	2164.3	11222.5	12644.7	12714.5
65°	10.3	19.4	25.8	36.2	50.5	82.8	1763.5	10245.1	11819.8	11976.3
67.5°	6.5	14.2	20.7	27.2	41.4	69.8	1256.7	8785.3	10665.2	10766.1
70°	3.9	9.1	15.5	22.0	32.3	55.6	746.1	6944.2	8873.2	8893.9
72.5°	2.6	6.5	10.3	15.5	25.8	50.5	362.1	4526.5	6478.8	6725.7
75°	1.3	3.9	6.5	11.6	20.7	41.4	173.2	3024.2	4714.0	4785.0
77.5°	0.0	1.3	3.9	7.7	15.5	32.3	100.8	1985.9	3214.2	3287.9
80°	0.0	0.0	2.6	6.5	11.6	20.7	60.8	1171.3	1947.1	1983.3
82.5°	0.0	0.0	1.3	5.1	7.7	15.5	31.0	514.6	1274.8	1287.7
85°	0.0	0.0	1.3	5.1	6.5	10.3	11.6	69.8	566.3	576.7
87.5°	0.0	0.0	1.3	6.5	6.5	6.5	6.5	3.9	47.9	59.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)