

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: P453624

Luminaire Tested: **GALN-SA4C-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453624
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-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 15872 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

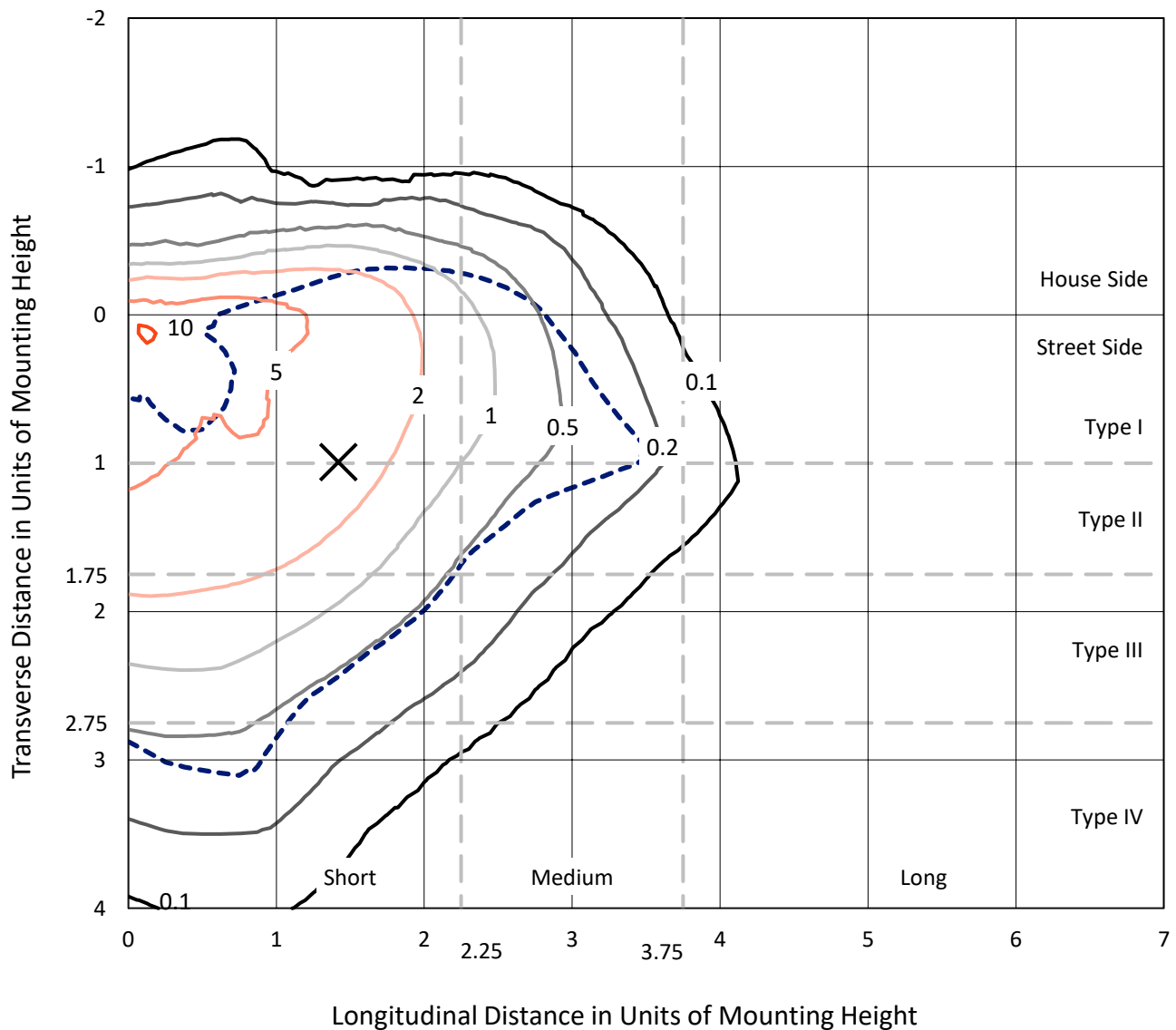


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

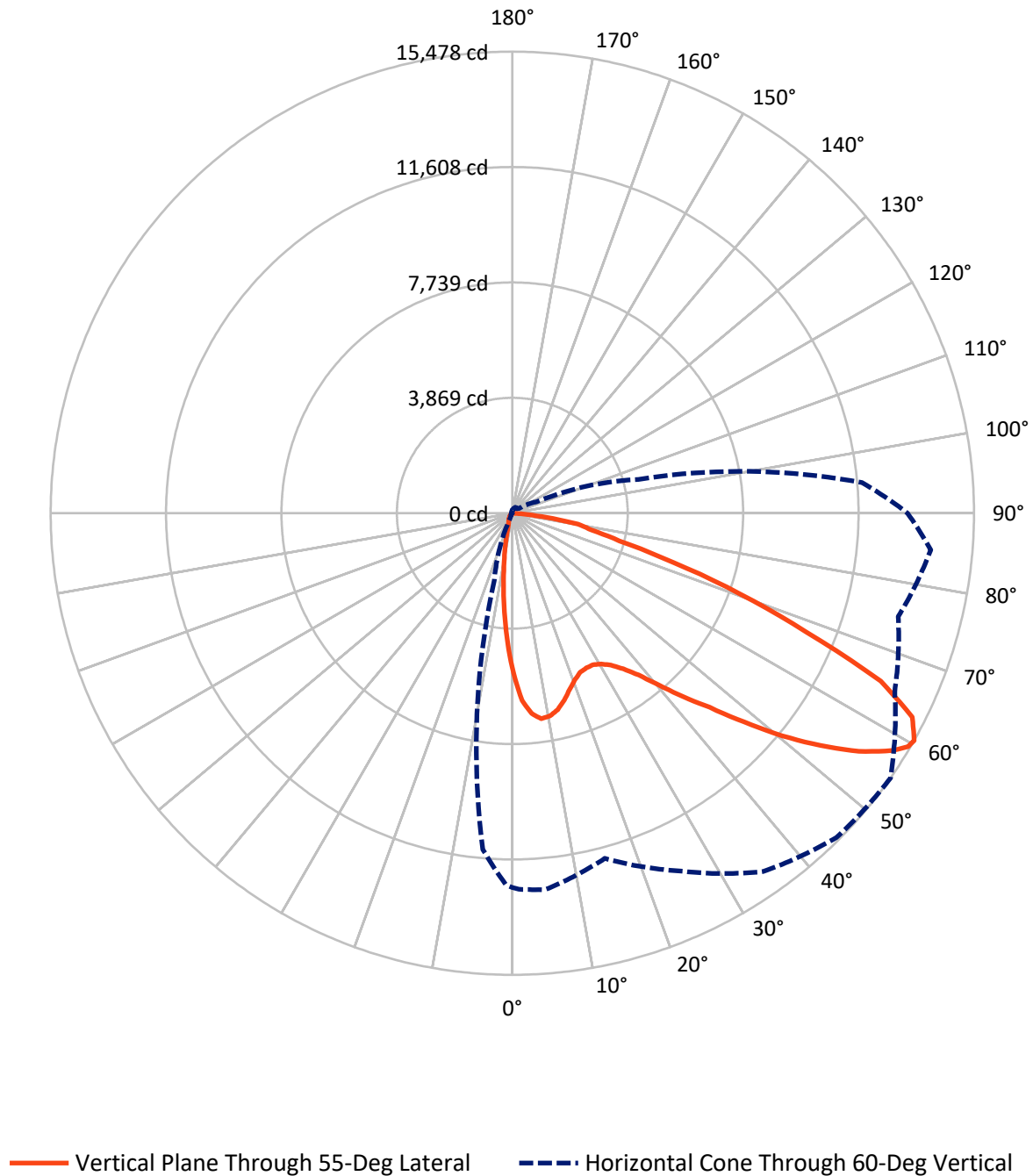


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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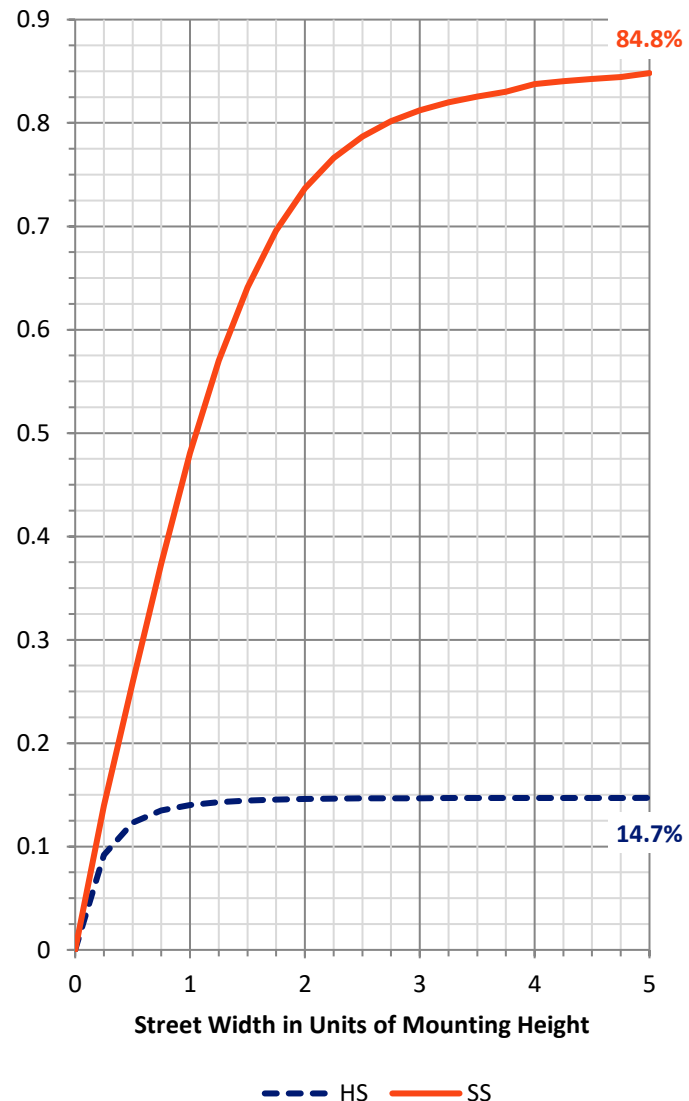
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2355.5	0.0	2355.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	13516.5	0.0	13516.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	15872.0	0.0	15872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.0	2.5
10°-20°	783.7	4.9
20°-30°	1160.0	7.3
30°-40°	1729.1	10.9
40°-50°	2532.3	16.0
50°-60°	3655.8	23.0
60°-70°	3845.8	24.2
70°-80°	1582.0	10.0
80°-90°	185.3	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°	15872.0	100.0
0°-180°	15872.0	100.0

Coefficient of Utilization



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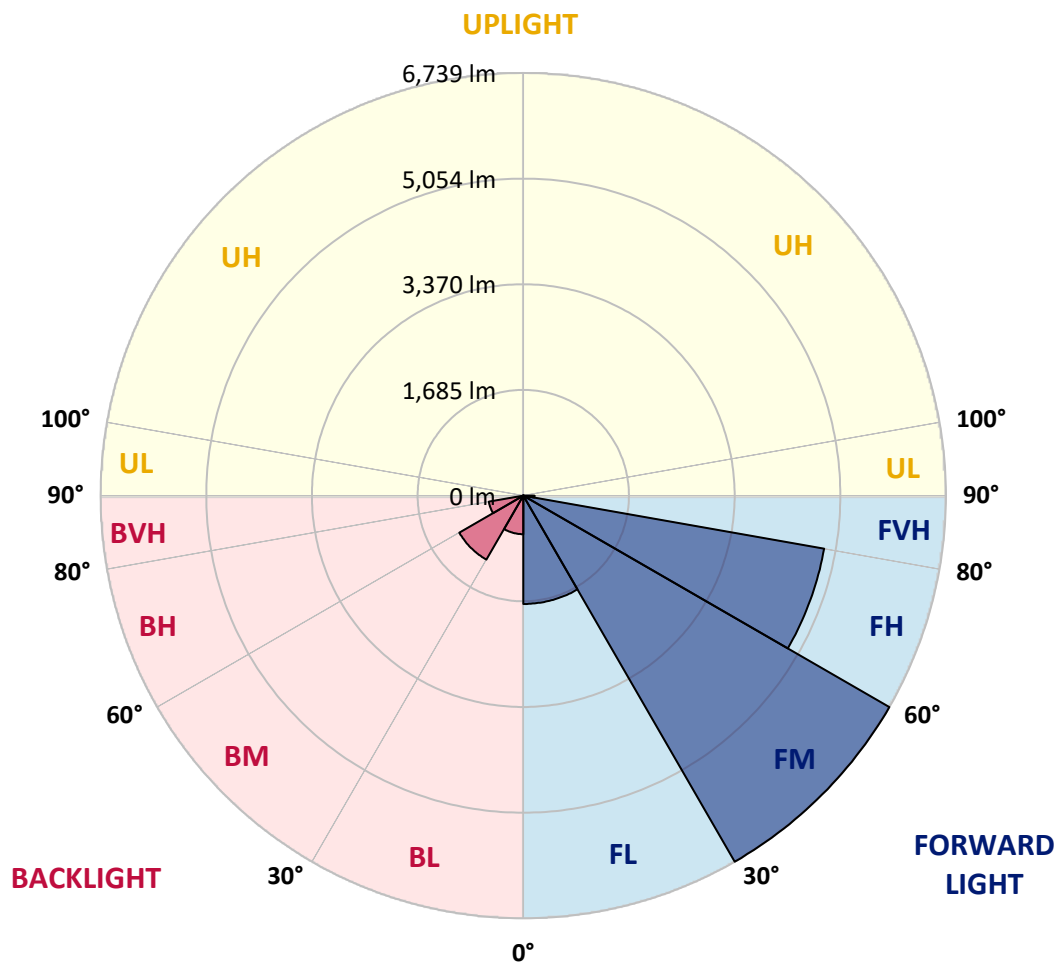
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1727.1	10.9			
FM	(30°-60°)	6739.3	42.5			
FH	(60°-80°)	4870.2	30.7			G2/5000
FVH	(80°-90°)	179.8	1.1			G2/225
BL	(0°-30°)	614.6	3.9	B2/1000		
BM	(30°-60°)	1178.0	7.4	B2/2500		
BH	(60°-80°)	557.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.4	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2
2.5°	5871.4	5861.7	5948.4	6090.1	6233.1	6307.6	6292.9	6286.8	6168.3	6081.6	5899.5
5°	5859.2	5909.3	6064.5	6448.1	6738.8	6879.3	6920.9	6746.2	6515.3	6180.5	5767.6
7.5°	5508.6	5570.9	5823.8	6423.6	6940.4	7245.8	7234.8	6955.1	6478.6	5960.6	5371.8
10°	5073.7	5147.0	5443.9	6172.0	6842.7	7245.8	7267.8	6913.5	6321.0	5656.4	5037.0
12.5°	4767.0	4853.8	5182.4	5937.4	6591.0	6988.1	7013.7	6757.2	6202.5	5539.1	4855.0
15°	4663.2	4745.0	5078.6	5818.9	6323.5	6537.3	6531.2	6504.3	6156.1	5567.2	4864.8
17.5°	4841.6	4908.8	5285.0	5872.7	6073.0	6051.0	6082.8	6212.3	6165.9	5803.0	5172.6
20°	5302.1	5370.6	5774.9	6037.6	5881.2	5741.9	5756.6	5972.8	6256.3	6246.5	5654.0
22.5°	5936.2	6052.3	6418.8	6357.7	5855.6	5550.1	5519.6	5800.6	6410.2	6757.2	6303.9
25°	6738.8	6856.1	7142.0	6868.3	5981.4	5504.9	5476.8	5748.1	6597.1	7255.6	7035.7
27.5°	7413.2	7502.4	7787.1	7365.6	6167.1	5524.5	5478.1	5755.4	6748.6	7679.5	7652.7
30°	7953.2	8019.2	8186.5	7597.7	6327.1	5610.0	5556.2	5862.9	6815.8	7886.0	8152.3
32.5°	8388.1	8499.3	8551.8	7845.7	6556.8	5771.3	5679.6	6069.4	6979.5	8141.3	8676.4
35°	8885.4	9013.6	8946.4	8082.7	6859.8	6022.9	5910.5	6404.1	7227.5	8377.1	9284.8
37.5°	9515.7	9663.6	9400.9	8331.9	7179.9	6401.7	6349.1	6874.5	7603.8	8714.3	9937.2
40°	10168.1	10253.6	9841.9	8634.9	7573.3	6952.6	7002.7	7573.3	8096.1	9118.7	10631.1
42.5°	10677.6	10758.2	10295.2	8889.0	7975.2	7606.2	7815.2	8416.2	8660.6	9532.8	11149.1
45°	11067.3	11135.7	10609.2	9166.3	8517.6	8553.1	8947.7	9284.8	9226.2	9785.7	11548.6
47.5°	11370.3	11428.9	10851.1	9464.4	9330.0	9711.2	10314.7	10457.7	9812.6	10059.4	11910.3
50°	11494.9	11512.0	10926.8	9844.4	10252.4	11187.0	11816.2	11729.4	10484.5	10363.6	12295.1
52.5°	11657.4	11653.7	11143.0	10206.0	11119.8	12506.4	13134.4	12937.7	11244.4	10819.3	12727.6
55°	12083.7	12088.6	11606.1	10719.1	11858.9	13571.8	14243.7	14100.7	12045.9	11589.0	13232.1
57.5°	12601.7	12620.1	12264.5	11319.0	12565.1	14343.9	15072.0	15017.0	13129.5	12445.4	13708.6
59°	12668.9	12705.6	12576.1	11741.7	12984.1	14580.9	15355.4	15409.2	13709.8	13009.8	13966.4
60°	12546.8	12607.8	12666.5	11981.1	13229.7	14666.4	15372.5	15477.6	14146.0	13393.4	14083.6
62.5°	12014.1	12110.6	12405.0	12717.8	13536.3	14400.1	14826.4	15046.3	14685.9	14401.3	14094.6
65°	11316.5	11366.6	11791.8	12848.5	12941.4	13156.4	13288.3	13570.5	14037.2	14789.8	13590.1
67.5°	10173.0	10320.8	10841.3	12089.8	11185.8	10931.7	10898.7	10617.7	11829.6	13863.7	12346.4
70°	8404.0	8470.0	9111.4	9911.6	8441.9	8050.9	8207.3	8102.2	9170.0	11934.7	9937.2
72.5°	6355.2	6504.3	7131.0	7900.7	5744.4	5237.4	5668.6	5629.5	6887.9	9591.5	6826.8
75°	4521.5	4618.0	5417.0	6183.0	4023.0	3408.5	3563.7	3709.1	4808.6	7573.3	4034.0
77.5°	3106.8	3189.8	3789.7	4089.0	2934.5	2811.1	2571.7	2712.2	3150.7	4493.4	2195.4
80°	1874.1	1870.4	2265.0	2338.3	2043.9	2373.7	1991.4	2235.7	1904.6	1922.9	850.3
82.5°	1216.8	1204.6	1385.4	1510.0	1137.4	1196.0	802.7	1156.9	1241.2	536.3	268.8
85°	544.9	568.1	665.8	878.4	498.4	265.1	163.7	355.5	529.0	270.0	0.0
87.5°	56.2	44.0	117.3	213.8	68.4	7.3	24.4	12.2	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°	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2
2.5°	5815.2	5744.4	5533.0	5335.1	5165.3	4957.6	4823.2	4611.9	4483.6	4444.5	4450.6
5°	5581.9	5377.9	4975.9	4654.6	4296.7	4092.7	3782.4	3484.3	3323.0	3263.1	3236.3
7.5°	5093.2	4874.5	4389.5	3885.0	3501.4	3143.4	2912.5	2649.8	2470.3	2322.4	2296.8
10°	4730.4	4443.3	3842.2	3299.8	2996.8	2728.0	2497.1	2234.5	2023.1	1854.5	1808.1
12.5°	4512.9	4191.6	3520.9	3066.4	2779.3	2503.2	2202.7	1898.5	1682.3	1500.2	1415.9
15°	4473.8	4101.2	3430.5	2899.1	2544.8	2211.3	1811.8	1483.1	1260.8	1088.5	1036.0
17.5°	4709.6	4263.7	3417.1	2724.4	2238.1	1765.3	1350.0	1077.5	827.1	730.6	692.7
20°	5129.9	4550.8	3415.8	2521.6	1922.9	1359.7	948.0	702.5	601.1	554.6	532.7
22.5°	5702.8	4941.7	3480.6	2346.9	1595.5	1003.0	676.8	559.5	500.9	463.0	454.5
25°	6402.9	5520.8	3639.4	2228.4	1345.1	786.8	558.3	478.9	430.0	412.9	405.6
27.5°	7024.7	6075.5	3814.1	2106.2	1165.5	696.4	518.0	438.6	399.5	386.1	375.1
30°	7561.0	6578.8	3898.4	1944.9	1021.3	637.7	525.3	469.1	417.8	377.5	359.2
32.5°	8008.2	6964.9	3953.4	1798.3	899.2	521.7	415.4	362.8	339.6	325.0	312.8
35°	8567.7	7382.7	3920.4	1715.3	836.9	475.2	378.7	312.8	273.7	244.3	232.1
37.5°	9154.1	7800.5	3863.0	1646.8	808.8	441.0	360.4	296.9	254.1	223.6	207.7
40°	9761.3	8187.8	3795.8	1583.3	783.1	419.0	349.4	283.4	240.7	207.7	190.6
42.5°	10317.2	8565.3	3768.9	1541.8	741.6	422.7	340.9	277.3	227.2	193.0	178.4
45°	10766.8	8923.2	3805.6	1519.8	696.4	416.6	343.3	270.0	216.2	183.3	168.6
47.5°	11246.9	9429.0	3924.1	1497.8	652.4	387.3	361.6	268.8	211.4	177.1	161.3
50°	11805.2	10076.5	4195.3	1444.0	598.6	355.5	384.8	267.6	205.2	169.8	153.9
52.5°	12549.2	10812.0	4475.1	1350.0	520.4	325.0	367.7	263.9	193.0	161.3	145.4
55°	13217.5	11586.5	4712.1	1238.8	421.5	281.0	331.1	248.0	172.3	146.6	131.9
57.5°	13493.6	12023.9	4704.7	1084.9	337.2	246.8	272.4	227.2	150.3	129.5	117.3
59°	13392.2	11968.9	4547.1	971.2	307.9	228.5	226.0	224.8	140.5	117.3	107.5
60°	13249.2	11768.5	4377.3	915.0	289.5	216.2	207.7	222.3	131.9	110.0	100.2
62.5°	12701.9	10937.8	3814.1	819.8	265.1	183.3	166.1	188.1	117.3	95.3	86.7
65°	11909.0	9661.1	3228.9	792.9	257.8	151.5	138.1	134.4	100.2	80.6	73.3
67.5°	10362.4	8175.6	2615.6	774.6	260.2	127.1	120.9	101.4	83.1	67.2	62.3
70°	8296.5	6374.8	2141.6	753.8	262.7	103.8	101.4	80.6	67.2	56.2	51.3
72.5°	5040.7	3778.7	1685.9	654.8	255.3	83.1	90.4	61.1	48.9	40.3	37.9
75°	3116.5	2586.3	1045.8	509.4	168.6	61.1	63.5	37.9	33.0	25.7	25.7
77.5°	1805.7	1633.4	373.8	183.3	74.5	36.7	28.1	19.5	18.3	11.0	11.0
80°	748.9	599.8	129.5	62.3	40.3	17.1	6.1	1.2	0.0	0.0	0.0
82.5°	218.7	194.2	35.4	28.1	12.2	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°	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2
2.5°	4346.8	4306.5	4288.1	4350.4	4293.0	4366.3	4310.1	4334.6	4406.6	4438.4	4520.3
5°	3253.4	3211.8	3192.3	3286.3	3281.5	3327.9	3323.0	3365.8	3402.4	3320.6	3404.9
7.5°	2266.2	2238.1	2284.6	2357.9	2436.1	2410.4	2410.4	2353.0	2372.5	2360.3	2356.6
10°	1723.8	1627.3	1602.9	1600.4	1629.7	1635.8	1602.9	1523.4	1552.8	1561.3	1612.6
12.5°	1356.1	1281.6	1167.9	1116.6	1103.2	1114.2	1005.5	935.8	968.8	949.3	999.3
15°	972.5	911.4	844.2	786.8	770.9	748.9	630.4	547.3	537.5	541.2	549.8
17.5°	693.9	652.4	652.4	591.3	558.3	492.3	432.5	395.8	392.2	395.8	401.9
20°	511.9	489.9	487.5	471.6	434.9	390.9	349.4	342.1	339.6	345.7	348.2
22.5°	441.0	417.8	398.3	397.0	362.8	326.2	306.6	296.9	298.1	300.5	306.6
25°	394.6	370.2	349.4	337.2	312.8	287.1	268.8	263.9	263.9	267.6	268.8
27.5°	361.6	331.1	312.8	295.6	273.7	251.7	235.8	232.1	229.7	232.1	238.2
30°	338.4	307.9	284.7	259.0	241.9	221.1	207.7	202.8	201.6	202.8	207.7
32.5°	289.5	271.2	252.9	229.7	208.9	195.5	180.8	172.3	172.3	174.7	179.6
35°	218.7	208.9	207.7	201.6	184.5	169.8	152.7	144.2	144.2	149.0	151.5
37.5°	193.0	174.7	172.3	169.8	162.5	142.9	127.1	119.7	118.5	122.2	127.1
40°	175.9	155.2	144.2	141.7	142.9	120.9	103.8	96.5	96.5	97.7	102.6
42.5°	162.5	138.1	118.5	116.1	120.9	101.4	84.3	77.0	77.0	77.0	83.1
45°	151.5	123.4	100.2	88.0	95.3	83.1	68.4	61.1	58.6	61.1	63.5
47.5°	144.2	112.4	88.0	70.9	70.9	66.0	55.0	46.4	44.0	45.2	48.9
50°	138.1	102.6	74.5	57.4	51.3	52.5	41.5	35.4	33.0	33.0	36.7
52.5°	128.3	92.8	64.7	48.9	39.1	35.4	30.5	25.7	24.4	25.7	28.1
55°	116.1	84.3	56.2	40.3	30.5	24.4	22.0	18.3	17.1	18.3	22.0
57.5°	102.6	70.9	45.2	31.8	20.8	15.9	14.7	12.2	9.8	11.0	13.4
59°	94.1	63.5	39.1	25.7	15.9	11.0	11.0	8.6	6.1	7.3	11.0
60°	90.4	58.6	33.0	22.0	13.4	8.6	8.6	6.1	3.7	4.9	8.6
62.5°	77.0	48.9	25.7	13.4	6.1	1.2	3.7	1.2	0.0	1.2	3.7
65°	64.7	39.1	17.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2
67.5°	53.8	29.3	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	42.8	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	29.3	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.3	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: P453624

CATALOG NUMBER: GALN-SA4C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2	5374.2
2.5°	4525.1	4699.8	4807.4	5010.2	5217.8	5377.9	5578.2	5757.8	5832.3	5871.4
5°	3490.4	3733.5	3940.0	4249.0	4536.1	4885.5	5239.8	5657.6	5817.7	5859.2
7.5°	2449.5	2697.5	2913.7	3271.7	3681.0	4148.9	4679.1	5209.3	5442.6	5508.6
10°	1769.0	2034.1	2298.0	2656.0	3038.3	3545.3	4097.5	4753.6	5022.4	5073.7
12.5°	1116.6	1401.3	1830.1	2272.3	2676.7	3084.8	3662.6	4376.1	4673.0	4767.0
15°	647.5	860.1	1183.8	1760.5	2274.8	2814.8	3445.2	4234.4	4566.7	4663.2
17.5°	433.7	507.0	729.3	1170.4	1849.6	2565.5	3390.2	4350.4	4718.2	4841.6
20°	365.3	398.3	476.5	713.5	1424.5	2343.2	3404.9	4665.6	5148.2	5302.1
22.5°	321.3	351.8	401.9	513.1	994.5	2067.1	3474.5	5116.4	5739.5	5936.2
25°	283.4	314.0	358.0	425.1	668.3	1748.2	3627.2	5776.2	6522.6	6738.8
27.5°	251.7	279.8	317.6	375.1	514.3	1392.7	3762.8	6418.8	7237.3	7413.2
30°	222.3	245.6	282.2	326.2	427.6	1073.9	3831.2	6980.7	7757.7	7953.2
32.5°	193.0	215.0	250.4	285.9	351.8	818.5	3783.6	7393.7	8263.5	8388.1
35°	164.9	188.1	217.5	250.4	304.2	660.9	3545.3	7857.9	8787.6	8885.4
37.5°	141.7	161.3	191.8	217.5	274.9	529.0	3257.0	8275.7	9375.3	9515.7
40°	119.7	139.3	169.8	193.0	252.9	416.6	2996.8	8740.0	9994.6	10168.1
42.5°	97.7	120.9	147.8	185.7	217.5	317.6	2681.6	9116.3	10460.1	10677.6
45°	78.2	103.8	133.2	184.5	189.4	241.9	2377.4	9409.5	10871.8	11067.3
47.5°	62.3	88.0	128.3	172.3	155.2	191.8	2203.9	9716.1	11213.9	11370.3
50°	50.1	73.3	134.4	151.5	129.5	162.5	2199.0	10058.2	11391.0	11494.9
52.5°	40.3	59.9	113.6	116.1	110.0	142.9	2331.0	10443.0	11571.8	11657.4
55°	34.2	50.1	74.5	85.5	99.0	129.5	2429.9	11035.5	12003.1	12083.7
57.5°	26.9	42.8	57.4	68.4	88.0	118.5	2443.4	11492.4	12549.2	12601.7
59°	23.2	36.7	51.3	61.1	80.6	111.2	2388.4	11520.5	12584.6	12668.9
60°	19.5	33.0	45.2	57.4	74.5	105.1	2328.5	11316.5	12452.7	12546.8
62.5°	14.7	25.7	33.0	46.4	61.1	90.4	2045.1	10604.3	11948.1	12014.1
65°	9.8	18.3	24.4	34.2	47.6	78.2	1666.4	9680.7	11168.7	11316.5
67.5°	6.1	13.4	19.5	25.7	39.1	66.0	1187.5	8301.4	10077.7	10173.0
70°	3.7	8.6	14.7	20.8	30.5	52.5	704.9	6561.7	8384.5	8404.0
72.5°	2.4	6.1	9.8	14.7	24.4	47.6	342.1	4277.1	6121.9	6355.2
75°	1.2	3.7	6.1	11.0	19.5	39.1	163.7	2857.5	4454.3	4521.5
77.5°	0.0	1.2	3.7	7.3	14.7	30.5	95.3	1876.5	3037.1	3106.8
80°	0.0	0.0	2.4	6.1	11.0	19.5	57.4	1106.9	1839.9	1874.1
82.5°	0.0	0.0	1.2	4.9	7.3	14.7	29.3	486.2	1204.6	1216.8
85°	0.0	0.0	1.2	4.9	6.1	9.8	11.0	66.0	535.1	544.9
87.5°	0.0	0.0	1.2	6.1	6.1	6.1	6.1	3.7	45.2	56.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)