

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: P457104

Luminaire Tested: **GALN-SA8B-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457104
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-SA8B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA 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: 26222 lumens
Efficiency: N/A
Efficacy: 80.7 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): 325
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

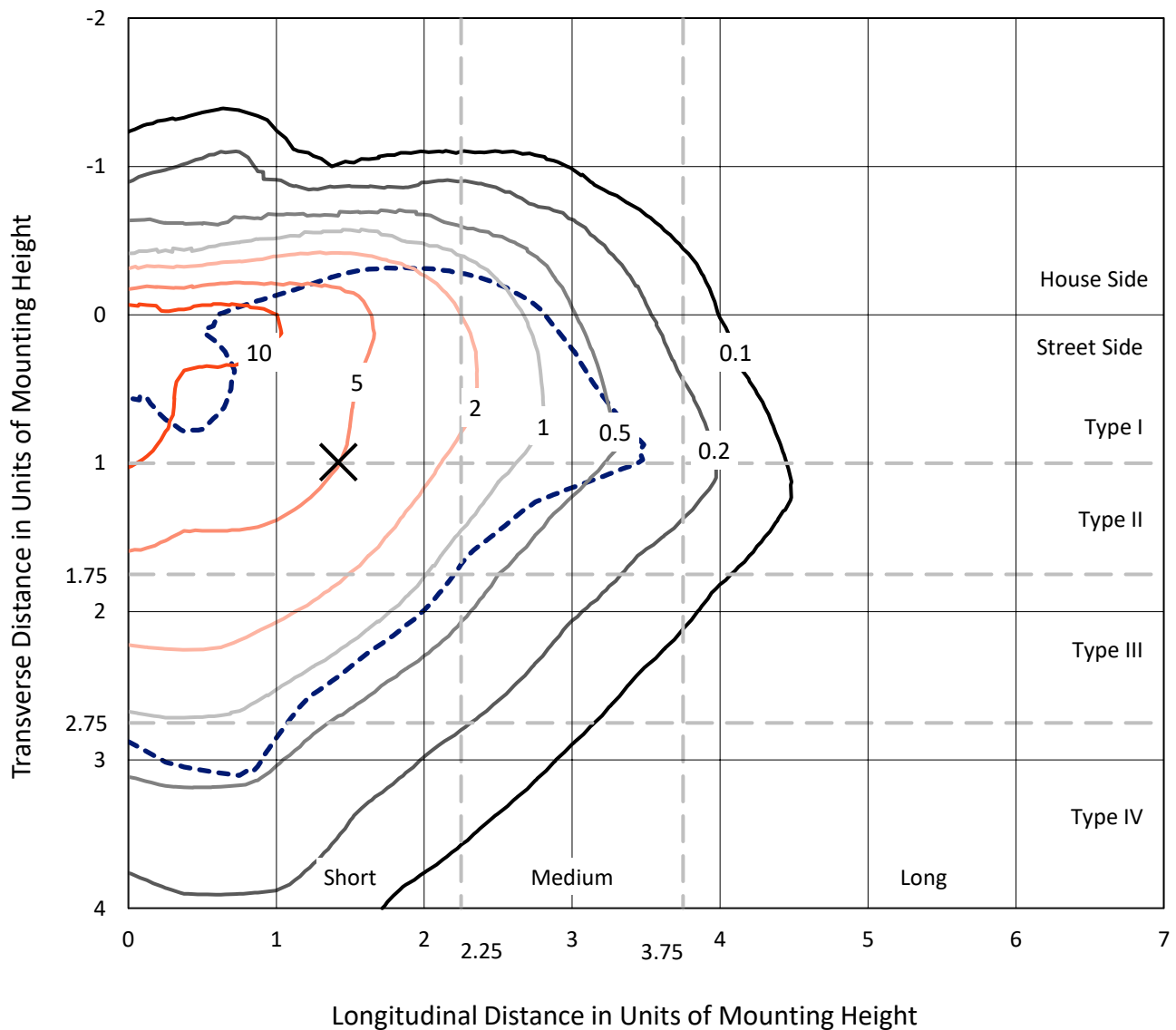


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

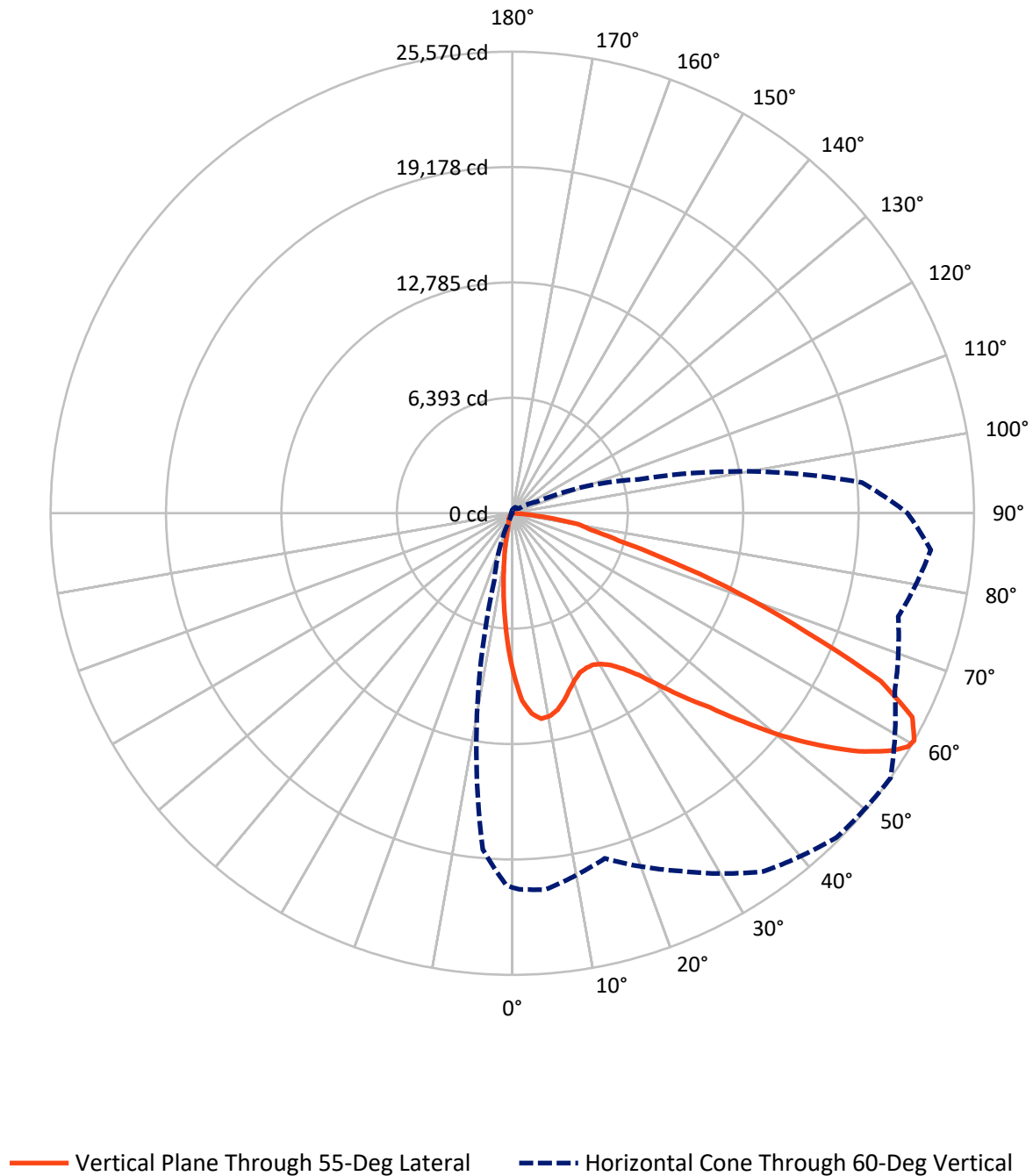


Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3891.6	0.0	3891.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	22330.4	0.0	22330.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	26222.0	0.0	26222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.5	2.5
10°-20°	1294.7	4.9
20°-30°	1916.4	7.3
30°-40°	2856.6	10.9
40°-50°	4183.6	16.0
50°-60°	6039.8	23.0
60°-70°	6353.6	24.2
70°-80°	2613.6	10.0
80°-90°	306.1	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°	26222.0	100.0
0°-180°	26222.0	100.0

Coefficient of Utilization



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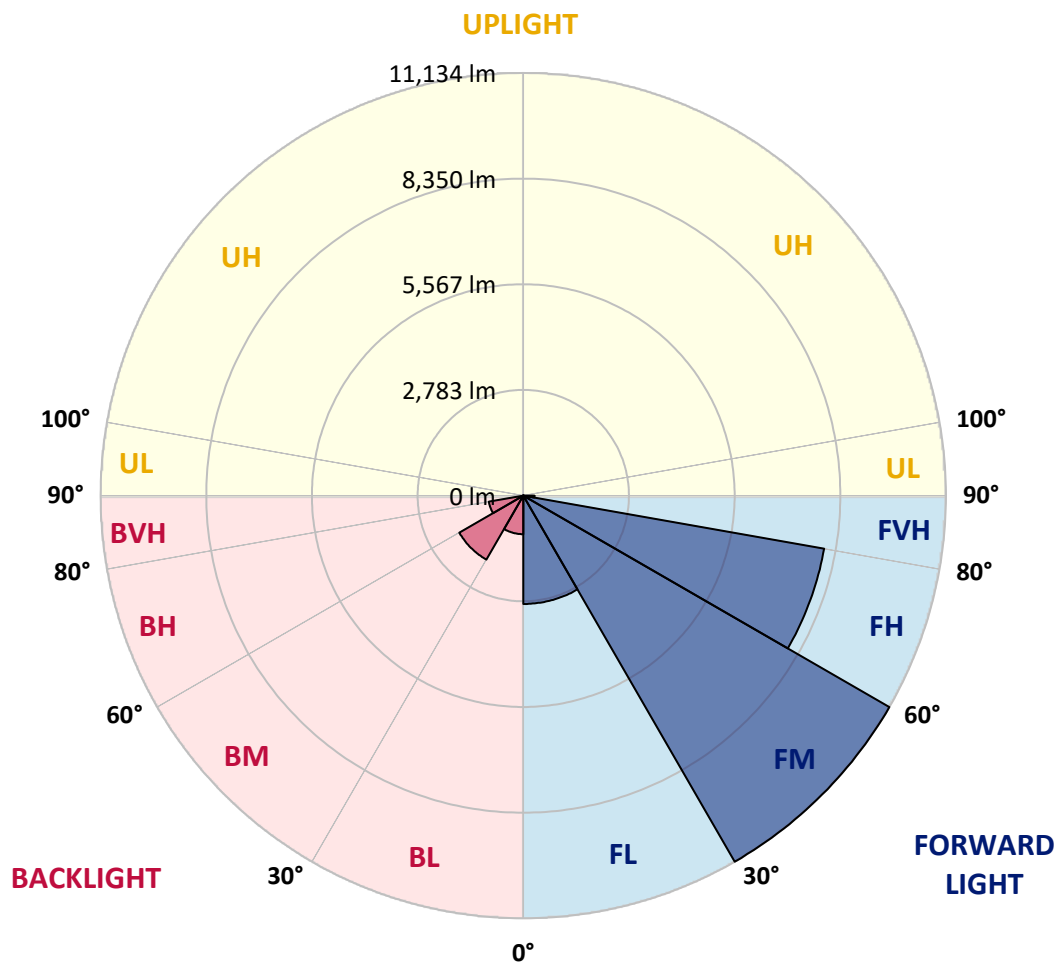
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2853.3	10.9			
FM	(30°-60°)	11133.9	42.5			
FH	(60°-80°)	8046.1	30.7			G4/12000
FVH	(80°-90°)	297.1	1.1			G3/500
BL	(0°-30°)	1015.3	3.9	B3/2500		
BM	(30°-60°)	1946.1	7.4	B2/2500		
BH	(60°-80°)	921.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	9.0	0.0			G0/10
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°	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7
2.5°	9700.2	9684.0	9827.3	10061.4	10297.6	10420.7	10396.5	10386.4	10190.6	10047.3	9746.6
5°	9680.0	9762.7	10019.1	10652.8	11133.2	11365.3	11433.9	11145.3	10763.8	10210.8	9528.6
7.5°	9100.7	9203.7	9621.4	10612.5	11466.2	11970.8	11952.6	11490.4	10703.3	9847.5	8874.7
10°	8382.2	8503.3	8993.7	10196.7	11304.7	11970.8	12007.1	11421.8	10442.9	9344.9	8321.6
12.5°	7875.6	8018.9	8561.8	9809.2	10889.0	11544.9	11587.3	11163.5	10247.1	9151.2	8020.9
15°	7704.0	7839.2	8390.3	9613.4	10447.0	10800.2	10790.1	10745.7	10170.4	9197.6	8037.0
17.5°	7998.7	8109.7	8731.4	9702.2	10033.2	9996.9	10049.3	10263.3	10186.6	9587.1	8545.7
20°	8759.6	8872.6	9540.7	9974.7	9716.3	9486.2	9510.4	9867.7	10335.9	10319.8	9340.9
22.5°	9807.1	9998.9	10604.4	10503.5	9673.9	9169.3	9118.9	9583.1	10590.3	11163.5	10414.7
25°	11133.2	11326.9	11799.2	11347.1	9881.8	9094.7	9048.2	9496.3	10899.1	11986.9	11623.6
27.5°	12247.3	12394.7	12864.9	12168.6	10188.6	9127.0	9050.3	9508.4	11149.3	12687.3	12642.9
30°	13139.4	13248.4	13524.9	12552.1	10453.0	9268.2	9179.4	9686.0	11260.3	13028.4	13468.4
32.5°	13858.0	14041.6	14128.4	12961.8	10832.5	9534.7	9383.3	10027.1	11530.8	13450.2	14334.3
35°	14679.4	14891.3	14780.3	13353.4	11333.0	9950.4	9764.7	10580.2	11940.5	13839.8	15339.4
37.5°	15720.9	15965.1	15531.2	13765.1	11861.8	10576.1	10489.3	11357.2	12562.2	14396.9	16417.2
40°	16798.7	16940.0	16259.8	14265.7	12511.7	11486.4	11569.1	12511.7	13375.6	15064.9	17563.6
42.5°	17640.3	17773.5	17008.6	14685.5	13175.8	12566.2	12911.3	13904.4	14308.0	15749.1	18419.4
45°	18284.2	18397.2	17527.3	15143.6	14071.9	14130.4	14782.4	15339.4	15242.5	16166.9	19079.4
47.5°	18784.7	18881.6	17926.9	15636.1	15414.1	16043.8	17040.9	17277.0	16211.3	16619.0	19676.8
50°	18990.6	19018.9	18052.1	16263.8	16937.9	18482.0	19521.4	19378.1	17321.4	17121.6	20312.6
52.5°	19259.0	19253.0	18409.3	16861.2	18371.0	20661.8	21699.2	21374.3	18576.8	17874.5	21027.1
55°	19963.4	19971.5	19174.3	17709.0	19592.1	22421.8	23531.9	23295.7	19900.9	19146.0	21860.7
57.5°	20819.2	20849.5	20262.2	18700.0	20758.7	23697.4	24900.3	24809.5	21691.1	20560.9	22647.8
59°	20930.2	20990.8	20776.8	19398.3	21451.0	24088.9	25368.6	25457.4	22649.9	21493.3	23073.7
60°	20728.4	20829.3	20926.2	19793.9	21856.7	24230.2	25396.8	25570.4	23370.4	22127.1	23267.5
62.5°	19848.4	20007.8	20494.3	21011.0	22363.3	23790.2	24494.6	24857.9	24262.5	23792.2	23285.6
65°	18695.9	18778.7	19481.1	21226.9	21380.3	21735.5	21953.5	22419.8	23190.8	24434.1	22452.1
67.5°	16806.8	17051.0	17910.8	19973.5	18480.0	18060.1	18005.6	17541.4	19543.6	22904.2	20397.4
70°	13884.2	13993.2	15052.8	16374.8	13946.8	13300.9	13559.2	13385.7	15149.7	19717.2	16417.2
72.5°	10499.4	10745.7	11781.1	13052.6	9490.3	8652.6	9365.1	9300.5	11379.4	15846.0	11278.5
75°	7469.9	7629.3	8949.3	10214.8	6646.4	5631.2	5887.5	6127.7	7944.2	12511.7	6664.6
77.5°	5132.6	5269.9	6260.9	6755.4	4848.1	4644.2	4248.6	4480.7	5205.3	7423.5	3627.0
80°	3096.1	3090.1	3742.0	3863.1	3376.7	3921.6	3289.9	3693.6	3146.6	3176.9	1404.8
82.5°	2010.3	1990.1	2288.8	2494.7	1879.1	1976.0	1326.1	1911.4	2050.6	886.1	444.0
85°	900.2	938.5	1100.0	1451.2	823.5	438.0	270.5	587.3	873.9	446.1	0.0
87.5°	92.8	72.7	193.8	353.2	113.0	12.1	40.4	20.2	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°	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7
2.5°	9607.3	9490.3	9141.1	8814.1	8533.6	8190.4	7968.4	7619.2	7407.3	7342.7	7352.8
5°	9221.8	8884.8	8220.7	7689.9	7098.5	6761.5	6248.8	5756.3	5489.9	5391.0	5346.6
7.5°	8414.5	8053.2	7251.9	6418.3	5784.6	5193.2	4811.7	4377.8	4081.1	3836.9	3794.5
10°	7815.0	7340.7	6347.7	5451.5	4951.0	4507.0	4125.5	3691.6	3342.4	3063.8	2987.1
12.5°	7455.8	6924.9	5816.9	5066.0	4591.7	4135.6	3639.1	3136.5	2779.3	2478.5	2339.3
15°	7391.2	6775.6	5667.5	4789.5	4204.2	3653.2	2993.2	2450.3	2082.9	1798.3	1711.6
17.5°	7780.7	7044.0	5645.3	4500.9	3697.6	2916.5	2230.3	1780.2	1366.4	1207.0	1144.4
20°	8475.0	7518.3	5643.3	4165.9	3176.9	2246.4	1566.2	1160.5	993.0	916.3	880.0
22.5°	9421.6	8164.2	5750.3	3877.2	2636.0	1657.1	1118.2	924.4	827.5	765.0	750.8
25°	10578.1	9120.9	6012.6	3681.5	2222.2	1299.8	922.4	791.2	710.5	682.2	670.1
27.5°	11605.5	10037.2	6301.3	3479.6	1925.5	1150.5	855.8	724.6	660.0	637.8	619.6
30°	12491.5	10868.8	6440.5	3213.2	1687.3	1053.6	867.9	775.0	690.3	623.7	593.4
32.5°	13230.2	11506.6	6531.4	2971.0	1485.5	861.8	686.2	599.4	561.1	536.9	516.7
35°	14154.6	12196.9	6476.9	2833.8	1382.6	785.1	625.7	516.7	452.1	403.7	383.5
37.5°	15123.5	12887.1	6382.0	2720.7	1336.1	728.6	595.4	490.5	419.8	369.4	343.1
40°	16126.6	13526.9	6271.0	2615.8	1293.8	692.3	577.2	468.3	397.6	343.1	314.9
42.5°	17044.9	14150.6	6226.6	2547.2	1225.1	698.3	563.1	458.2	375.4	318.9	294.7
45°	17787.7	14742.0	6287.1	2510.8	1150.5	688.3	567.2	446.1	357.2	302.8	278.5
47.5°	18580.9	15577.6	6482.9	2474.5	1077.8	639.8	597.4	444.0	349.2	292.7	266.4
50°	19503.3	16647.3	6931.0	2385.7	989.0	587.3	635.8	442.0	339.1	280.5	254.3
52.5°	20732.4	17862.3	7393.2	2230.3	859.8	536.9	607.5	436.0	318.9	266.4	240.2
55°	21836.5	19142.0	7784.8	2046.6	696.3	464.2	547.0	409.7	284.6	242.2	218.0
57.5°	22292.6	19864.5	7772.6	1792.3	557.1	407.7	450.1	375.4	248.3	213.9	193.8
59°	22125.1	19773.7	7512.3	1604.6	508.6	377.4	373.4	371.4	232.1	193.8	177.6
60°	21888.9	19442.7	7231.7	1511.7	478.3	357.2	343.1	367.3	218.0	181.7	165.5
62.5°	20984.7	18070.2	6301.3	1354.3	438.0	302.8	274.5	310.8	193.8	157.4	143.3
65°	19674.8	15961.1	5334.5	1309.9	425.9	250.3	228.1	222.0	165.5	133.2	121.1
67.5°	17119.6	13506.8	4321.3	1279.6	429.9	209.9	199.8	167.5	137.2	111.0	102.9
70°	13706.6	10531.7	3538.2	1245.3	433.9	171.6	167.5	133.2	111.0	92.8	84.8
72.5°	8327.7	6242.7	2785.3	1081.8	421.8	137.2	149.4	100.9	80.7	66.6	62.6
75°	5148.8	4272.8	1727.7	841.6	278.5	100.9	105.0	62.6	54.5	42.4	42.4
77.5°	2983.1	2698.5	617.6	302.8	123.1	60.6	46.4	32.3	30.3	18.2	18.2
80°	1237.2	991.0	213.9	102.9	66.6	28.3	10.1	2.0	0.0	0.0	0.0
82.5°	361.3	320.9	58.5	46.4	20.2	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°	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7
2.5°	7181.3	7114.7	7084.4	7187.3	7092.5	7213.6	7120.7	7161.1	7280.2	7332.6	7467.9
5°	5374.9	5306.2	5273.9	5429.3	5421.3	5498.0	5489.9	5560.5	5621.1	5485.9	5625.1
7.5°	3744.0	3697.6	3774.3	3895.4	4024.6	3982.2	3982.2	3887.3	3919.6	3899.4	3893.4
10°	2847.9	2688.4	2648.1	2644.0	2692.5	2702.6	2648.1	2516.9	2565.3	2579.4	2664.2
12.5°	2240.4	2117.2	1929.5	1844.8	1822.6	1840.7	1661.1	1546.1	1600.5	1568.3	1651.0
15°	1606.6	1505.7	1394.7	1299.8	1273.6	1237.2	1041.5	904.2	888.1	894.1	908.3
17.5°	1146.4	1077.8	1077.8	976.9	922.4	813.4	714.5	653.9	647.9	653.9	664.0
20°	845.7	809.4	805.3	779.1	718.5	645.9	577.2	565.1	561.1	571.2	575.2
22.5°	728.6	690.3	658.0	656.0	599.4	538.9	506.6	490.5	492.5	496.5	506.6
25°	651.9	611.6	577.2	557.1	516.7	474.3	444.0	436.0	436.0	442.0	444.0
27.5°	597.4	547.0	516.7	488.4	452.1	415.8	389.5	383.5	379.4	383.5	393.6
30°	559.1	508.6	470.3	427.9	399.6	365.3	343.1	335.0	333.0	335.0	343.1
32.5°	478.3	448.1	417.8	379.4	345.1	322.9	298.7	284.6	284.6	288.6	296.7
35°	361.3	345.1	343.1	333.0	304.8	280.5	252.3	238.2	238.2	246.2	250.3
37.5°	318.9	288.6	284.6	280.5	268.4	236.1	209.9	197.8	195.8	201.8	209.9
40°	290.6	256.3	238.2	234.1	236.1	199.8	171.6	159.4	159.4	161.5	169.5
42.5°	268.4	228.1	195.8	191.7	199.8	167.5	139.3	127.2	127.2	127.2	137.2
45°	250.3	203.9	165.5	145.3	157.4	137.2	113.0	100.9	96.9	100.9	105.0
47.5°	238.2	185.7	145.3	117.1	117.1	109.0	90.8	76.7	72.7	74.7	80.7
50°	228.1	169.5	123.1	94.9	84.8	86.8	68.6	58.5	54.5	54.5	60.6
52.5°	211.9	153.4	107.0	80.7	64.6	58.5	50.5	42.4	40.4	42.4	46.4
55°	191.7	139.3	92.8	66.6	50.5	40.4	36.3	30.3	28.3	30.3	36.3
57.5°	169.5	117.1	74.7	52.5	34.3	26.2	24.2	20.2	16.1	18.2	22.2
59°	155.4	105.0	64.6	42.4	26.2	18.2	18.2	14.1	10.1	12.1	18.2
60°	149.4	96.9	54.5	36.3	22.2	14.1	14.1	10.1	6.1	8.1	14.1
62.5°	127.2	80.7	42.4	22.2	10.1	2.0	6.1	2.0	0.0	2.0	6.1
65°	107.0	64.6	28.3	10.1	0.0	0.0	0.0	0.0	0.0	0.0	2.0
67.5°	88.8	48.4	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	70.6	32.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	48.4	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	30.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.1	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: P457104

CATALOG NUMBER: GALN-SA8B-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7	8878.7
2.5°	7475.9	7764.6	7942.2	8277.2	8620.3	8884.8	9215.8	9512.5	9635.6	9700.2
5°	5766.4	6168.1	6509.2	7019.8	7494.1	8071.4	8656.7	9347.0	9611.4	9680.0
7.5°	4046.8	4456.5	4813.8	5405.1	6081.3	6854.3	7730.3	8606.2	8991.7	9100.7
10°	2922.6	3360.5	3796.5	4387.9	5019.6	5857.2	6769.5	7853.4	8297.4	8382.2
12.5°	1844.8	2315.0	3023.5	3754.1	4422.2	5096.3	6051.0	7229.7	7720.2	7875.6
15°	1069.7	1420.9	1955.8	2908.4	3758.2	4650.3	5691.7	6995.6	7544.6	7704.0
17.5°	716.5	837.6	1205.0	1933.6	3055.8	4238.5	5600.9	7187.3	7794.8	7998.7
20°	603.5	658.0	787.2	1178.7	2353.4	3871.2	5625.1	7708.1	8505.3	8759.6
22.5°	530.8	581.3	664.0	847.7	1642.9	3415.0	5740.2	8452.8	9482.2	9807.1
25°	468.3	518.7	591.4	702.4	1104.0	2888.3	5992.5	9542.7	10775.9	11133.2
27.5°	415.8	462.2	524.8	619.6	849.7	2300.9	6216.5	10604.4	11956.7	12247.3
30°	367.3	405.7	466.2	538.9	706.4	1774.1	6329.5	11532.8	12816.5	13139.4
32.5°	318.9	355.2	413.8	472.3	581.3	1352.3	6250.8	12215.0	13652.1	13858.0
35°	272.5	310.8	359.3	413.8	502.6	1091.9	5857.2	12982.0	14518.0	14679.4
37.5°	234.1	266.4	316.9	359.3	454.1	873.9	5380.9	13672.3	15488.8	15720.9
40°	197.8	230.1	280.5	318.9	417.8	688.3	4951.0	14439.2	16512.1	16798.7
42.5°	161.5	199.8	244.2	306.8	359.3	524.8	4430.3	15060.9	17281.1	17640.3
45°	129.2	171.6	220.0	304.8	312.8	399.6	3927.7	15545.3	17961.2	18284.2
47.5°	102.9	145.3	211.9	284.6	256.3	316.9	3641.1	16051.9	18526.4	18784.7
50°	82.8	121.1	222.0	250.3	213.9	268.4	3633.0	16617.0	18819.0	18990.6
52.5°	66.6	98.9	187.7	191.7	181.7	236.1	3851.0	17252.8	19117.8	19259.0
55°	56.5	82.8	123.1	141.3	163.5	213.9	4014.5	18231.7	19830.2	19963.4
57.5°	44.4	70.6	94.9	113.0	145.3	195.8	4036.7	18986.6	20732.4	20819.2
59°	38.3	60.6	84.8	100.9	133.2	183.7	3945.9	19033.0	20791.0	20930.2
60°	32.3	54.5	74.7	94.9	123.1	173.6	3847.0	18695.9	20573.0	20728.4
62.5°	24.2	42.4	54.5	76.7	100.9	149.4	3378.7	17519.2	19739.4	19848.4
65°	16.1	30.3	40.4	56.5	78.7	129.2	2753.0	15993.4	18451.7	18695.9
67.5°	10.1	22.2	32.3	42.4	64.6	109.0	1961.8	13714.6	16649.3	16806.8
70°	6.1	14.1	24.2	34.3	50.5	86.8	1164.6	10840.5	13851.9	13884.2
72.5°	4.0	10.1	16.1	24.2	40.4	78.7	565.1	7066.2	10113.9	10499.4
75°	2.0	6.1	10.1	18.2	32.3	64.6	270.5	4720.9	7358.9	7469.9
77.5°	0.0	2.0	6.1	12.1	24.2	50.5	157.4	3100.2	5017.6	5132.6
80°	0.0	0.0	4.0	10.1	18.2	32.3	94.9	1828.6	3039.6	3096.1
82.5°	0.0	0.0	2.0	8.1	12.1	24.2	48.4	803.3	1990.1	2010.3
85°	0.0	0.0	2.0	8.1	10.1	16.1	18.2	109.0	884.0	900.2
87.5°	0.0	0.0	2.0	10.1	10.1	10.1	10.1	6.1	74.7	92.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)