

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: P456872

Luminaire Tested: **GALN-SA8A-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456872
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-SA8A-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 21074 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 244
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

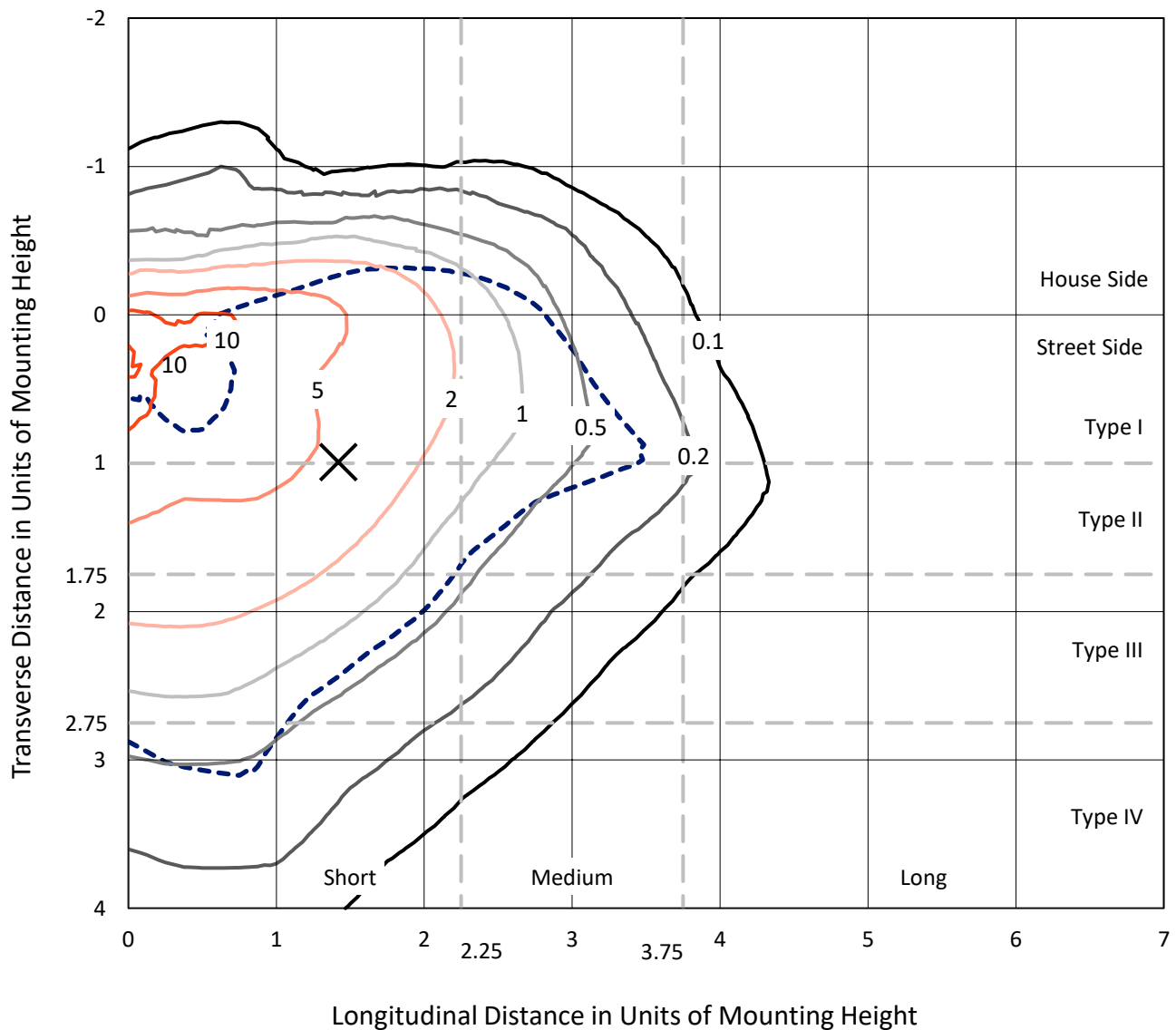


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

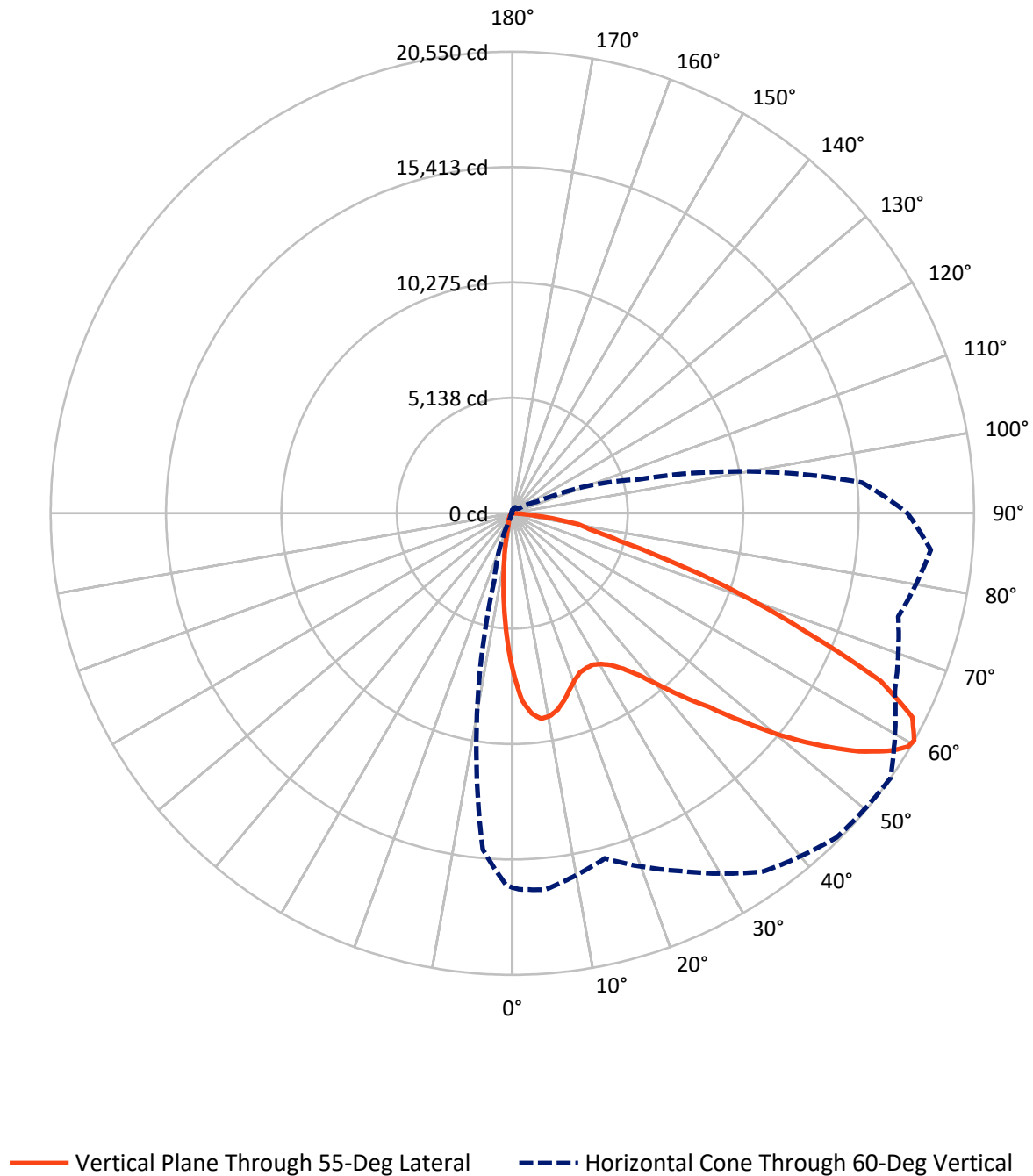


Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3127.6	0.0	3127.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	17946.4	0.0	17946.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	21074.0	0.0	21074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.4	2.5
10°-20°	1040.5	4.9
20°-30°	1540.2	7.3
30°-40°	2295.8	10.9
40°-50°	3362.3	16.0
50°-60°	4854.0	23.0
60°-70°	5106.2	24.2
70°-80°	2100.5	10.0
80°-90°	246.0	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°	21074.0	100.0
0°-180°	21074.0	100.0

Coefficient of Utilization



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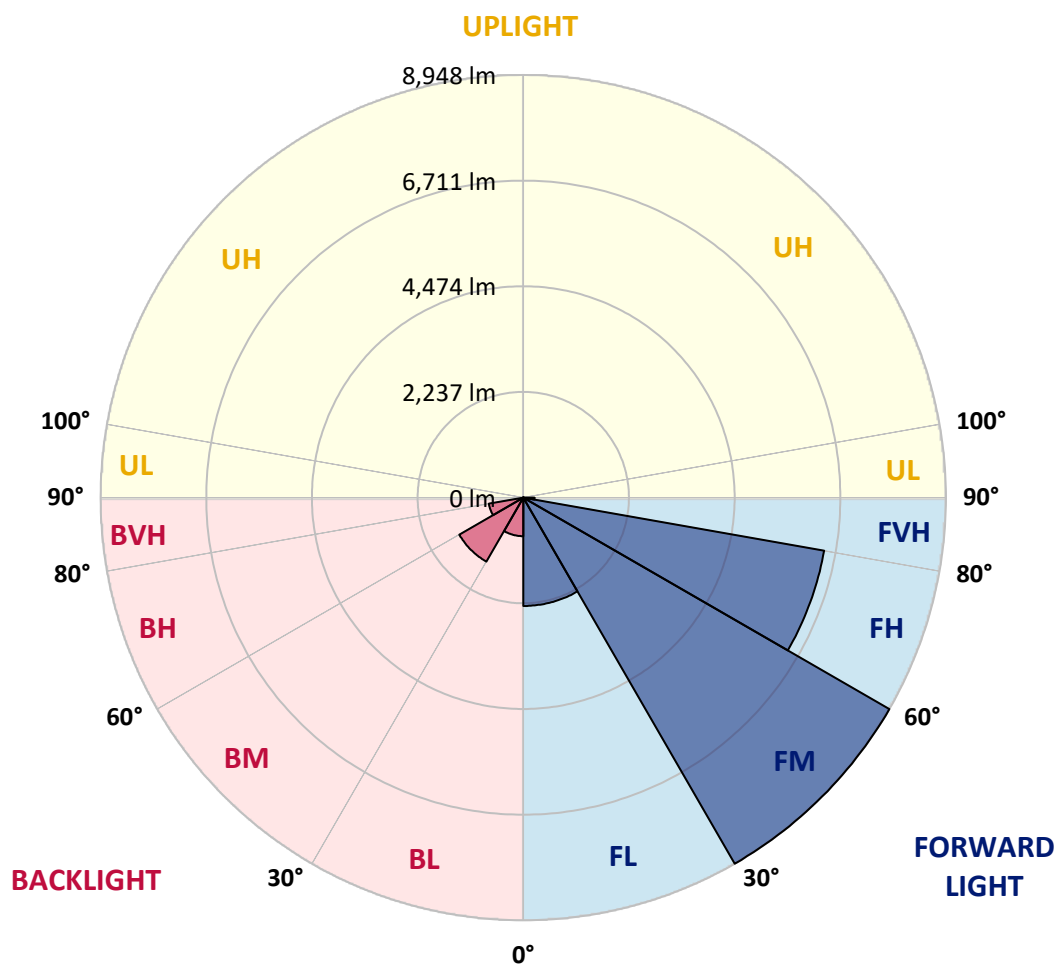
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2293.1	10.9			
FM	(30°-60°)	8948.0	42.5			
FH	(60°-80°)	6466.5	30.7			G3/7500
FVH	(80°-90°)	238.8	1.1			G3/500
BL	(0°-30°)	816.0	3.9	B2/1000		
BM	(30°-60°)	1564.1	7.4	B2/2500		
BH	(60°-80°)	740.3	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.2	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°	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6
2.5°	7795.8	7782.8	7898.0	8086.1	8275.9	8374.9	8355.4	8347.3	8190.0	8074.8	7833.1
5°	7779.6	7846.1	8052.1	8561.4	8947.5	9134.0	9189.2	8957.2	8650.6	8206.2	7657.9
7.5°	7314.0	7396.8	7732.5	8529.0	9215.1	9620.6	9606.0	9234.6	8602.0	7914.2	7132.4
10°	6736.6	6833.9	7228.1	8194.8	9085.4	9620.6	9649.8	9179.4	8392.7	7510.3	6687.9
12.5°	6329.4	6444.6	6880.9	7883.4	8751.2	9278.4	9312.5	8971.8	8235.4	7354.6	6446.2
15°	6191.5	6300.2	6743.1	7726.0	8396.0	8679.8	8671.7	8636.0	8173.7	7391.9	6459.2
17.5°	6428.4	6517.6	7017.2	7797.4	8063.4	8034.2	8076.4	8248.4	8186.7	7705.0	6868.0
20°	7039.9	7130.7	7667.6	8016.4	7808.8	7623.8	7643.3	7930.4	8306.8	8293.8	7507.1
22.5°	7881.8	8035.9	8522.5	8441.4	7774.7	7369.2	7328.6	7701.7	8511.1	8971.8	8370.0
25°	8947.5	9103.2	9482.8	9119.4	7941.8	7309.2	7271.9	7632.0	8759.3	9633.6	9341.6
27.5°	9842.9	9961.3	10339.2	9779.6	8188.3	7335.1	7273.5	7641.7	8960.5	10196.5	10160.8
30°	10559.8	10647.4	10869.7	10087.8	8400.8	7448.7	7377.3	7784.4	9049.7	10470.6	10824.2
32.5°	11137.3	11284.9	11354.7	10417.1	8705.8	7662.8	7541.1	8058.6	9267.0	10809.6	11520.1
35°	11797.5	11967.8	11878.6	10731.8	9108.1	7996.9	7847.7	8503.0	9596.3	11122.7	12327.9
37.5°	12634.5	12830.8	12482.0	11062.7	9533.1	8499.8	8430.0	9127.5	10095.9	11570.4	13194.1
40°	13500.7	13614.2	13067.6	11465.0	10055.4	9231.3	9297.9	10055.4	10749.6	12107.3	14115.5
42.5°	14177.1	14284.2	13669.4	11802.4	10589.0	10099.2	10376.5	11174.6	11499.0	12657.2	14803.2
45°	14694.6	14785.4	14086.3	12170.6	11309.2	11356.3	11880.2	12327.9	12250.1	12993.0	15333.7
47.5°	15096.8	15174.7	14407.5	12566.4	12387.9	12894.0	13695.4	13885.1	13028.7	13356.3	15813.8
50°	15262.3	15285.0	14508.0	13070.8	13612.6	14853.5	15688.9	15573.7	13920.8	13760.2	16324.8
52.5°	15478.0	15473.2	14795.1	13551.0	14764.3	16605.4	17439.1	17178.0	14929.8	14365.3	16899.0
55°	16044.1	16050.6	15409.9	14232.3	15745.7	18019.9	18912.0	18722.2	15993.9	15387.2	17568.9
57.5°	16731.9	16756.2	16284.2	15028.7	16683.3	19045.0	20011.8	19938.8	17432.7	16524.3	18201.5
59°	16821.1	16869.8	16697.9	15590.0	17239.6	19359.7	20388.1	20459.5	18203.2	17273.7	18543.8
60°	16658.9	16740.0	16817.9	15907.9	17565.7	19473.3	20410.8	20550.3	18782.2	17783.0	18699.5
62.5°	15951.7	16079.8	16470.8	16886.0	17972.8	19119.6	19685.8	19977.7	19499.2	19121.3	18714.1
65°	15025.5	15092.0	15656.5	17059.6	17182.9	17468.3	17643.5	18018.2	18637.9	19637.1	18044.2
67.5°	13507.2	13703.5	14394.5	16052.3	14851.9	14514.5	14470.7	14097.6	15706.8	18407.5	16392.9
70°	11158.4	11246.0	12097.6	13160.1	11208.7	10689.6	10897.2	10757.7	12175.4	15846.3	13194.1
72.5°	8438.1	8636.0	9468.2	10490.1	7627.1	6953.9	7526.5	7474.6	9145.4	12735.1	9064.3
75°	6003.4	6131.5	7192.4	8209.4	5341.6	4525.6	4731.7	4924.7	6384.6	10055.4	5356.2
77.5°	4125.0	4235.3	5031.7	5429.2	3896.3	3732.4	3414.5	3601.1	4183.4	5966.1	2914.9
80°	2488.3	2483.4	3007.4	3104.7	2713.8	3151.7	2644.0	2968.4	2528.8	2553.2	1129.0
82.5°	1615.6	1599.4	1839.5	2004.9	1510.2	1588.0	1065.7	1536.1	1648.0	712.1	356.9
85°	723.5	754.3	884.0	1166.3	661.8	352.0	217.4	472.0	702.4	358.5	0.0
87.5°	74.6	58.4	155.7	283.9	90.8	9.7	32.4	16.2	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°	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6
2.5°	7721.2	7627.1	7346.5	7083.7	6858.2	6582.5	6404.0	6123.4	5953.1	5901.2	5909.3
5°	7411.4	7140.5	6606.8	6180.2	5704.9	5434.0	5022.0	4626.2	4412.1	4332.6	4296.9
7.5°	6762.5	6472.2	5828.2	5158.3	4648.9	4173.7	3867.1	3518.3	3279.9	3083.6	3049.5
10°	6280.8	5899.6	5101.5	4381.3	3979.0	3622.1	3315.6	2966.8	2686.2	2462.3	2400.7
12.5°	5992.0	5565.4	4674.9	4071.5	3690.3	3323.7	2924.6	2520.7	2233.6	1991.9	1880.0
15°	5940.1	5445.4	4554.8	3849.2	3378.8	2936.0	2405.6	1969.2	1674.0	1445.3	1375.5
17.5°	6253.2	5661.1	4537.0	3617.3	2971.7	2343.9	1792.4	1430.7	1098.2	970.0	919.7
20°	6811.2	6042.3	4535.4	3348.0	2553.2	1805.4	1258.7	932.7	798.1	736.4	707.2
22.5°	7571.9	6561.4	4621.4	3116.0	2118.5	1331.7	898.6	742.9	665.1	614.8	603.4
25°	8501.4	7330.2	4832.2	2958.7	1785.9	1044.6	741.3	635.9	571.0	548.3	538.5
27.5°	9327.0	8066.7	5064.2	2796.5	1547.5	924.6	687.8	582.3	530.4	512.6	498.0
30°	10039.1	8735.0	5176.1	2582.4	1356.1	846.7	697.5	622.9	554.8	501.2	476.9
32.5°	10632.8	9247.6	5249.1	2387.7	1193.9	692.6	551.5	481.8	450.9	431.5	415.3
35°	11375.8	9802.3	5205.3	2277.4	1111.1	631.0	502.8	415.3	363.3	324.4	308.2
37.5°	12154.4	10357.1	5129.1	2186.6	1073.8	585.6	478.5	394.2	337.4	296.8	275.8
40°	12960.5	10871.3	5039.9	2102.2	1039.8	556.4	463.9	376.3	319.6	275.8	253.0
42.5°	13698.6	11372.5	5004.2	2047.1	984.6	561.2	452.6	368.2	301.7	256.3	236.8
45°	14295.5	11847.8	5052.8	2017.9	924.6	553.1	455.8	358.5	287.1	243.3	223.8
47.5°	14933.0	12519.3	5210.2	1988.7	866.2	514.2	480.1	356.9	280.6	235.2	214.1
50°	15674.3	13379.0	5570.3	1917.3	794.8	472.0	511.0	355.2	272.5	225.5	204.4
52.5°	16662.2	14355.5	5941.7	1792.4	691.0	431.5	488.3	350.4	256.3	214.1	193.0
55°	17549.5	15384.0	6256.4	1644.8	559.6	373.1	439.6	329.3	228.7	194.7	175.2
57.5°	17916.0	15964.7	6246.7	1440.4	447.7	327.7	361.7	301.7	199.5	171.9	155.7
59°	17781.4	15891.7	6037.4	1289.6	408.8	303.3	300.1	298.5	186.5	155.7	142.7
60°	17591.6	15625.6	5812.0	1214.9	384.4	287.1	275.8	295.2	175.2	146.0	133.0
62.5°	16864.9	14522.6	5064.2	1088.4	352.0	243.3	220.6	249.8	155.7	126.5	115.2
65°	15812.2	12827.5	4287.2	1052.7	342.3	201.1	183.3	178.4	133.0	107.1	97.3
67.5°	13758.6	10855.1	3472.9	1028.4	345.5	168.7	160.6	134.6	110.3	89.2	82.7
70°	11015.7	8464.1	2843.5	1000.8	348.8	137.9	134.6	107.1	89.2	74.6	68.1
72.5°	6692.8	5017.1	2238.5	869.4	339.0	110.3	120.0	81.1	64.9	53.5	50.3
75°	4138.0	3434.0	1388.5	676.4	223.8	81.1	84.3	50.3	43.8	34.1	34.1
77.5°	2397.5	2168.7	496.4	243.3	98.9	48.7	37.3	26.0	24.3	14.6	14.6
80°	994.3	796.4	171.9	82.7	53.5	22.7	8.1	1.6	0.0	0.0	0.0
82.5°	290.4	257.9	47.0	37.3	16.2	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°	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6
2.5°	5771.4	5717.9	5693.6	5776.3	5700.0	5797.4	5722.8	5755.2	5850.9	5893.1	6001.8
5°	4319.6	4264.5	4238.5	4363.4	4356.9	4418.6	4412.1	4468.9	4517.5	4408.9	4520.8
7.5°	3009.0	2971.7	3033.3	3130.6	3234.5	3200.4	3200.4	3124.2	3150.1	3133.9	3129.0
10°	2288.8	2160.6	2128.2	2124.9	2163.9	2172.0	2128.2	2022.8	2061.7	2073.0	2141.2
12.5°	1800.5	1701.6	1550.7	1482.6	1464.8	1479.4	1335.0	1242.5	1286.3	1260.4	1326.9
15°	1291.2	1210.1	1120.9	1044.6	1023.5	994.3	837.0	726.7	713.7	718.6	729.9
17.5°	921.4	866.2	866.2	785.1	741.3	653.7	574.2	525.6	520.7	525.6	533.7
20°	679.7	650.5	647.2	626.1	577.5	519.1	463.9	454.2	450.9	459.1	462.3
22.5°	585.6	554.8	528.8	527.2	481.8	433.1	407.1	394.2	395.8	399.0	407.1
25°	523.9	491.5	463.9	447.7	415.3	381.2	356.9	350.4	350.4	355.2	356.9
27.5°	480.1	439.6	415.3	392.5	363.3	334.2	313.1	308.2	305.0	308.2	316.3
30°	449.3	408.8	377.9	343.9	321.2	293.6	275.8	269.3	267.6	269.3	275.8
32.5°	384.4	360.1	335.8	305.0	277.4	259.5	240.1	228.7	228.7	232.0	238.4
35°	290.4	277.4	275.8	267.6	244.9	225.5	202.8	191.4	191.4	197.9	201.1
37.5°	256.3	232.0	228.7	225.5	215.7	189.8	168.7	159.0	157.3	162.2	168.7
40°	233.6	206.0	191.4	188.2	189.8	160.6	137.9	128.1	128.1	129.8	136.3
42.5°	215.7	183.3	157.3	154.1	160.6	134.6	111.9	102.2	102.2	102.2	110.3
45°	201.1	163.8	133.0	116.8	126.5	110.3	90.8	81.1	77.9	81.1	84.3
47.5°	191.4	149.2	116.8	94.1	94.1	87.6	73.0	61.6	58.4	60.0	64.9
50°	183.3	136.3	98.9	76.2	68.1	69.8	55.2	47.0	43.8	43.8	48.7
52.5°	170.3	123.3	86.0	64.9	51.9	47.0	40.6	34.1	32.4	34.1	37.3
55°	154.1	111.9	74.6	53.5	40.6	32.4	29.2	24.3	22.7	24.3	29.2
57.5°	136.3	94.1	60.0	42.2	27.6	21.1	19.5	16.2	13.0	14.6	17.8
59°	124.9	84.3	51.9	34.1	21.1	14.6	14.6	11.4	8.1	9.7	14.6
60°	120.0	77.9	43.8	29.2	17.8	11.4	11.4	8.1	4.9	6.5	11.4
62.5°	102.2	64.9	34.1	17.8	8.1	1.6	4.9	1.6	0.0	1.6	4.9
65°	86.0	51.9	22.7	8.1	0.0	0.0	0.0	0.0	0.0	0.0	1.6
67.5°	71.4	38.9	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	56.8	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	38.9	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.7	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: P456872

CATALOG NUMBER: GALN-SA8A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6	7135.6
2.5°	6008.2	6240.2	6382.9	6652.2	6928.0	7140.5	7406.5	7644.9	7743.9	7795.8
5°	4634.3	4957.1	5231.3	5641.6	6022.8	6486.8	6957.2	7511.9	7724.4	7779.6
7.5°	3252.3	3581.6	3868.7	4344.0	4887.4	5508.6	6212.6	6916.6	7226.4	7314.0
10°	2348.8	2700.8	3051.2	3526.4	4034.2	4707.3	5440.5	6311.6	6668.4	6736.6
12.5°	1482.6	1860.5	2429.9	3017.1	3554.0	4095.8	4863.0	5810.3	6204.5	6329.4
15°	859.7	1142.0	1571.8	2337.4	3020.3	3737.3	4574.3	5622.2	6063.4	6191.5
17.5°	575.8	673.2	968.4	1554.0	2455.9	3406.4	4501.3	5776.3	6264.5	6428.4
20°	485.0	528.8	632.6	947.3	1891.4	3111.2	4520.8	6194.8	6835.5	7039.9
22.5°	426.6	467.2	533.7	681.3	1320.4	2744.6	4613.2	6793.3	7620.6	7881.8
25°	376.3	416.9	475.3	564.5	887.3	2321.2	4816.0	7669.3	8660.4	8947.5
27.5°	334.2	371.5	421.7	498.0	682.9	1849.2	4996.1	8522.5	9609.3	9842.9
30°	295.2	326.0	374.7	433.1	567.7	1425.8	5086.9	9268.7	10300.3	10559.8
32.5°	256.3	285.5	332.5	379.6	467.2	1086.8	5023.6	9816.9	10971.9	11137.3
35°	219.0	249.8	288.7	332.5	403.9	877.6	4707.3	10433.3	11667.7	11797.5
37.5°	188.2	214.1	254.7	288.7	365.0	702.4	4324.5	10988.1	12448.0	12634.5
40°	159.0	184.9	225.5	256.3	335.8	553.1	3979.0	11604.5	13270.4	13500.7
42.5°	129.8	160.6	196.3	246.6	288.7	421.7	3560.5	12104.1	13888.4	14177.1
45°	103.8	137.9	176.8	244.9	251.4	321.2	3156.6	12493.4	14435.0	14694.6
47.5°	82.7	116.8	170.3	228.7	206.0	254.7	2926.3	12900.5	14889.2	15096.8
50°	66.5	97.3	178.4	201.1	171.9	215.7	2919.8	13354.7	15124.4	15262.3
52.5°	53.5	79.5	150.9	154.1	146.0	189.8	3095.0	13865.7	15364.5	15478.0
55°	45.4	66.5	98.9	113.5	131.4	171.9	3226.3	14652.4	15937.1	16044.1
57.5°	35.7	56.8	76.2	90.8	116.8	157.3	3244.2	15259.1	16662.2	16731.9
59°	30.8	48.7	68.1	81.1	107.1	147.6	3171.2	15296.4	16709.2	16821.1
60°	26.0	43.8	60.0	76.2	98.9	139.5	3091.7	15025.5	16534.0	16658.9
62.5°	19.5	34.1	43.8	61.6	81.1	120.0	2715.4	14079.8	15864.1	15951.7
65°	13.0	24.3	32.4	45.4	63.3	103.8	2212.5	12853.5	14829.2	15025.5
67.5°	8.1	17.8	26.0	34.1	51.9	87.6	1576.7	11022.1	13380.7	13507.2
70°	4.9	11.4	19.5	27.6	40.6	69.8	935.9	8712.3	11132.4	11158.4
72.5°	3.2	8.1	13.0	19.5	32.4	63.3	454.2	5679.0	8128.3	8438.1
75°	1.6	4.9	8.1	14.6	26.0	51.9	217.4	3794.1	5914.2	6003.4
77.5°	0.0	1.6	4.9	9.7	19.5	40.6	126.5	2491.5	4032.5	4125.0
80°	0.0	0.0	3.2	8.1	14.6	26.0	76.2	1469.6	2442.9	2488.3
82.5°	0.0	0.0	1.6	6.5	9.7	19.5	38.9	645.6	1599.4	1615.6
85°	0.0	0.0	1.6	6.5	8.1	13.0	14.6	87.6	710.5	723.5
87.5°	0.0	0.0	1.6	8.1	8.1	8.1	8.1	4.9	60.0	74.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)