

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: P454552

Luminaire Tested: **GALN-SA5C-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454552
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-SA5C-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 20092 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 269
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

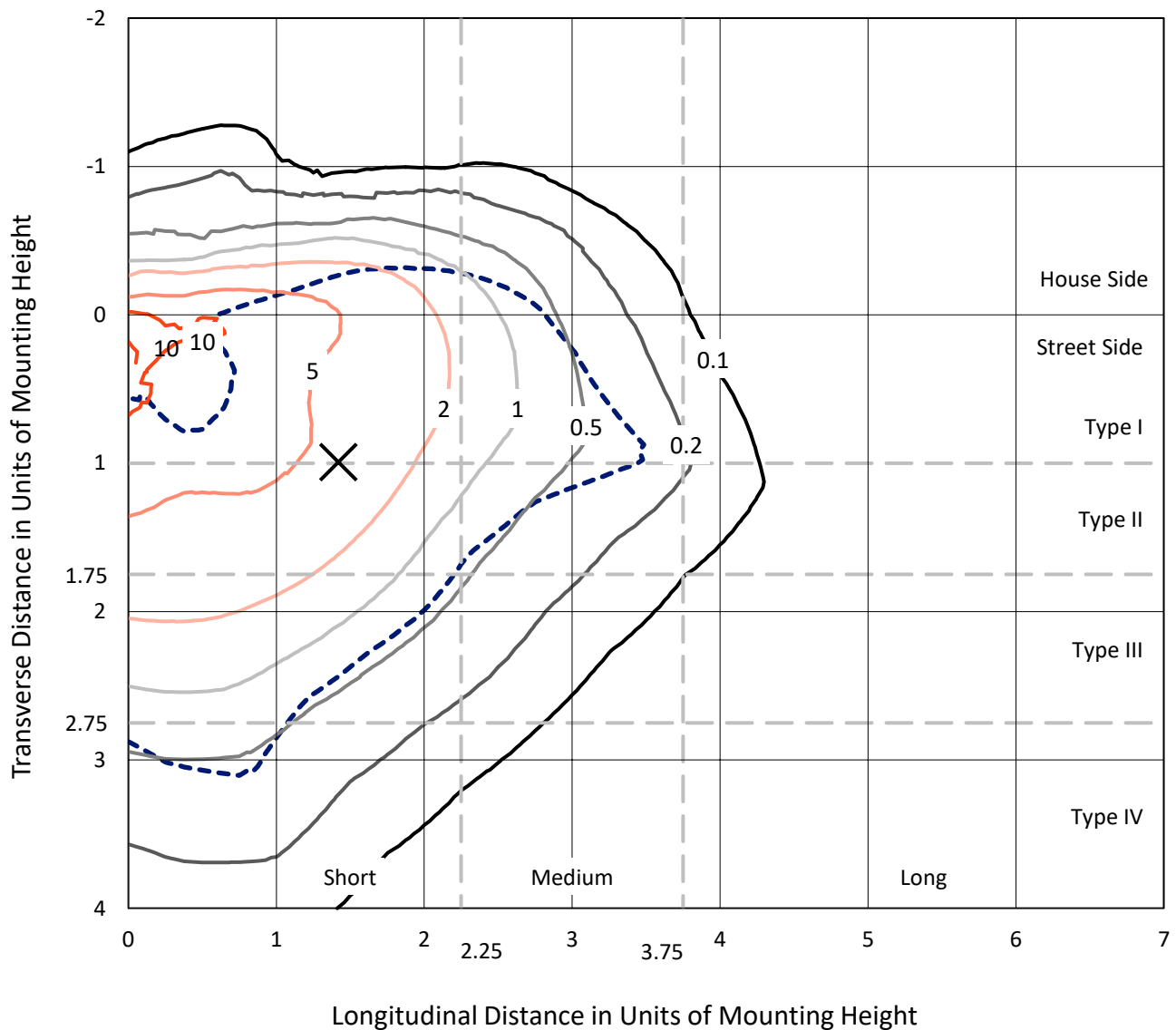


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

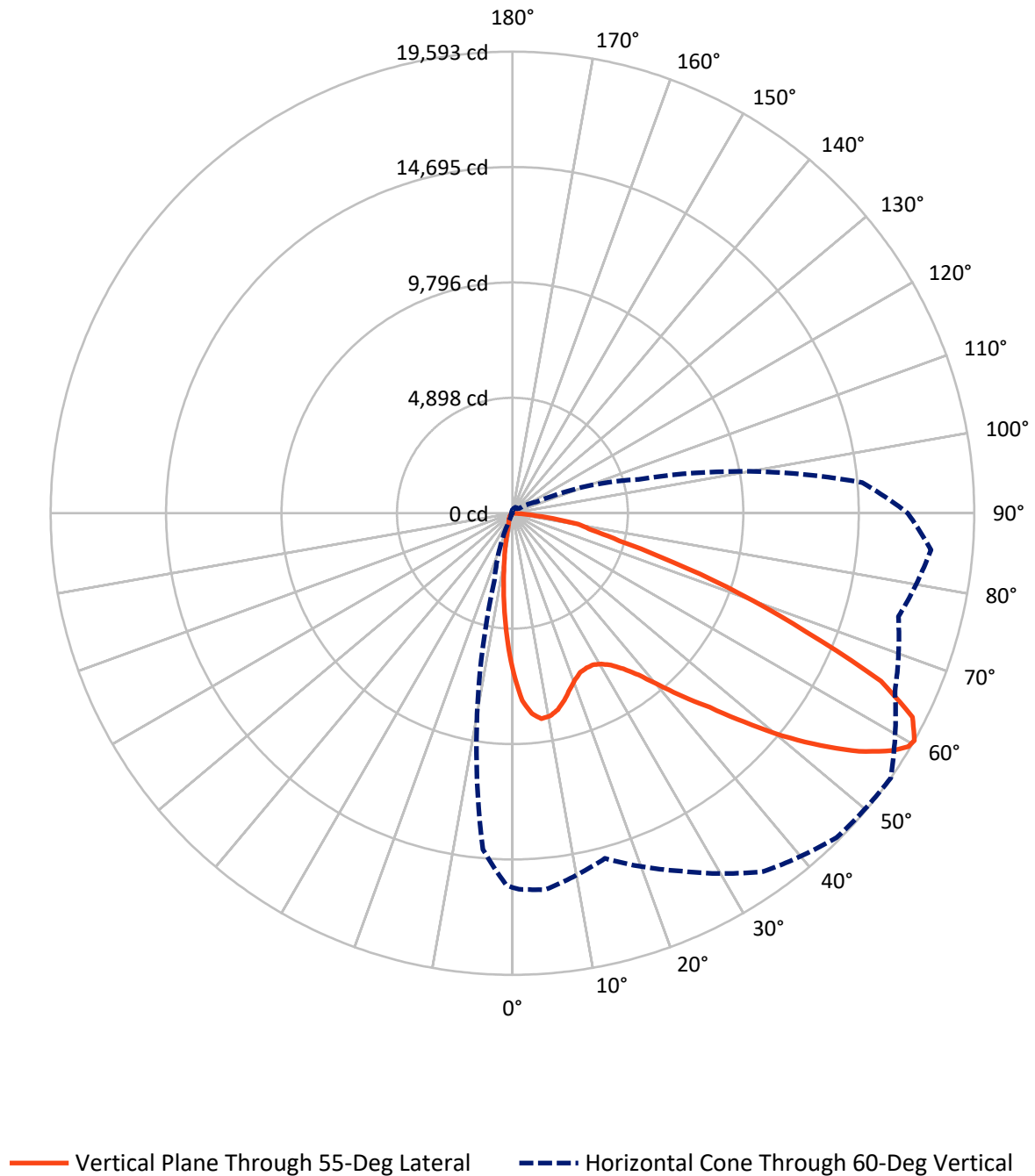


Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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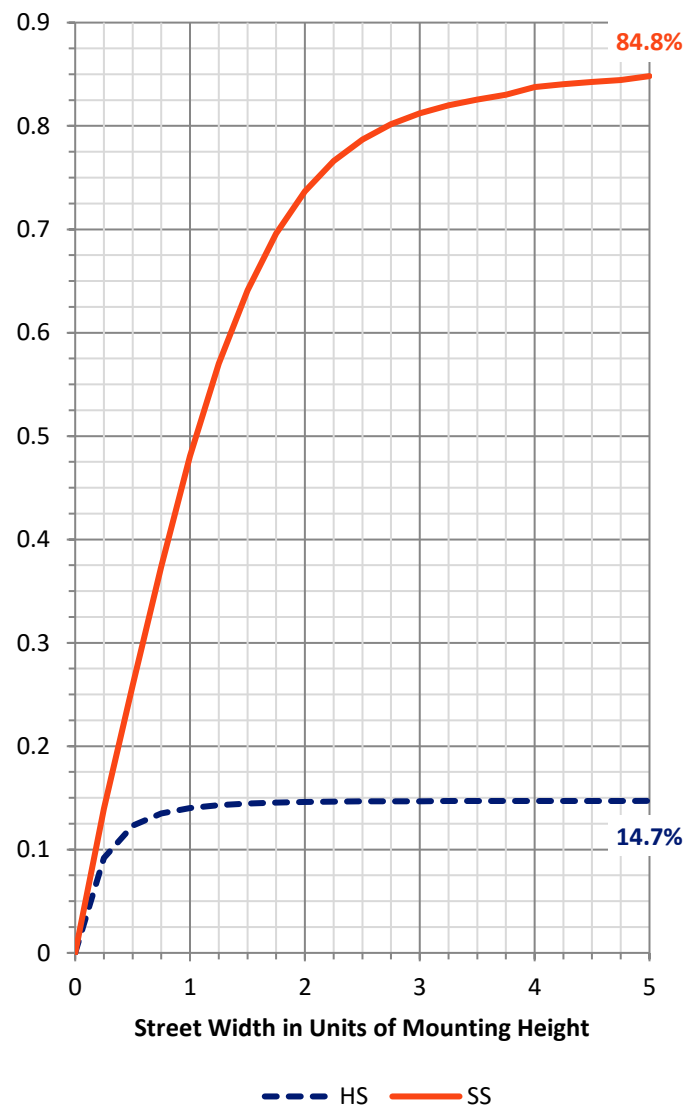
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2981.8	0.0	2981.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	17110.2	0.0	17110.2
	% Fixture	85.2	0.0	85.2
Total	Lumens	20092.0	0.0	20092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.8	2.5
10°-20°	992.1	4.9
20°-30°	1468.4	7.3
30°-40°	2188.8	10.9
40°-50°	3205.6	16.0
50°-60°	4627.9	23.0
60°-70°	4868.3	24.2
70°-80°	2002.6	10.0
80°-90°	234.5	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°	20092.0	100.0
0°-180°	20092.0	100.0

Coefficient of Utilization



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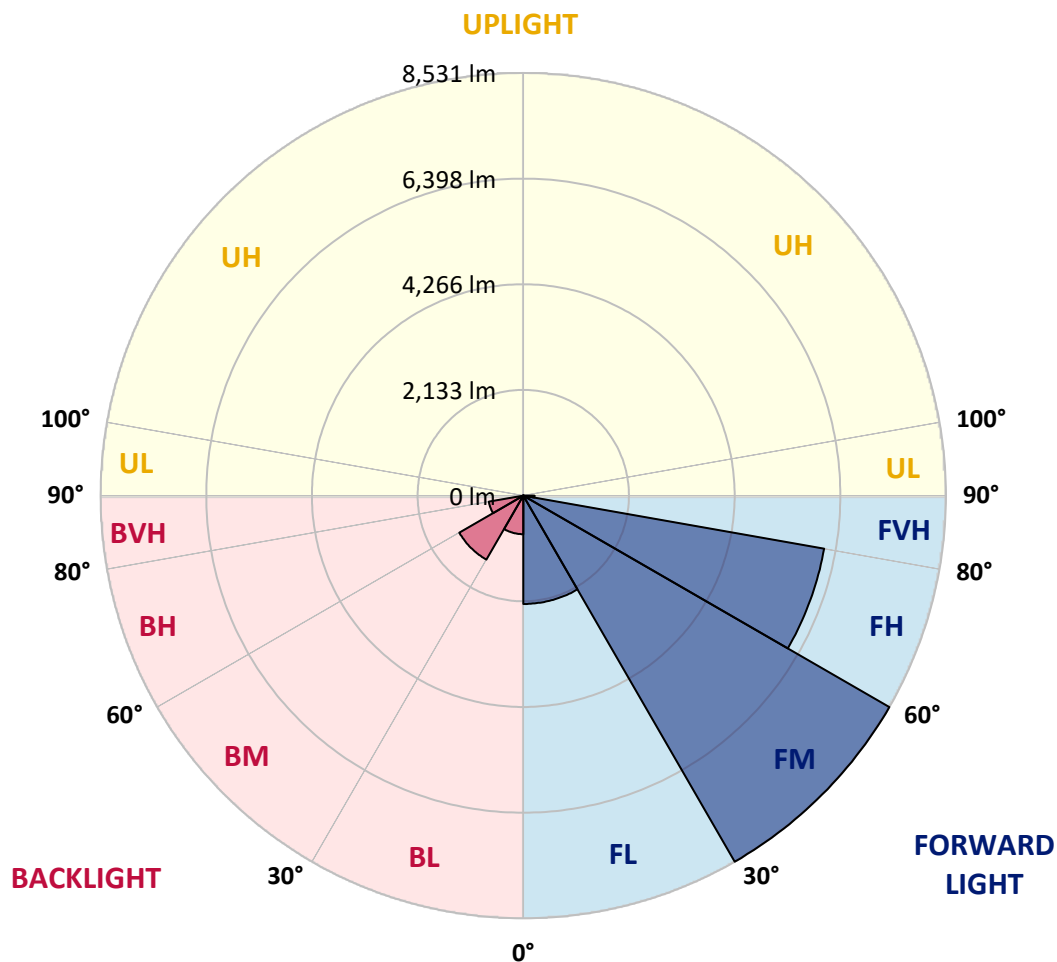
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2186.3	10.9			
FM	(30°-60°)	8531.1	42.5			
FH	(60°-80°)	6165.1	30.7			G3/7500
FVH	(80°-90°)	227.7	1.1			G3/500
BL	(0°-30°)	778.0	3.9	B2/1000		
BM	(30°-60°)	1491.2	7.4	B2/2500		
BH	(60°-80°)	705.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.9	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°	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1
2.5°	7432.5	7420.2	7530.0	7709.4	7890.3	7984.6	7966.1	7958.3	7808.3	7698.5	7468.1
5°	7417.1	7480.5	7676.9	8162.5	8530.5	8708.4	8761.0	8539.8	8247.5	7823.8	7301.1
7.5°	6973.2	7052.1	7372.2	8131.5	8785.7	9172.3	9158.4	8804.3	8201.1	7545.4	6800.0
10°	6422.7	6515.4	6891.2	7813.0	8662.0	9172.3	9200.2	8751.7	8001.6	7160.3	6376.3
12.5°	6034.5	6144.3	6560.3	7516.0	8343.4	8846.0	8878.5	8553.7	7851.6	7011.9	6145.8
15°	5903.0	6006.6	6428.8	7366.0	8004.7	8275.4	8267.6	8233.6	7792.9	7047.4	6158.2
17.5°	6128.8	6213.9	6690.2	7434.1	7687.7	7659.9	7700.1	7864.0	7805.2	7345.9	6547.9
20°	6711.9	6798.5	7310.4	7642.9	7444.9	7268.6	7287.2	7560.9	7919.7	7907.3	7157.2
22.5°	7514.5	7661.4	8125.4	8048.0	7412.4	7025.8	6987.1	7342.8	8114.5	8553.7	7980.0
25°	8530.5	8679.0	9040.9	8694.5	7571.7	6968.6	6933.0	7276.3	8351.2	9184.7	8906.3
27.5°	9384.2	9497.1	9857.5	9323.9	7806.8	6993.3	6934.5	7285.6	8542.9	9721.4	9687.3
30°	10067.8	10151.3	10363.2	9617.7	8009.4	7101.6	7033.5	7421.7	8628.0	9982.7	10319.9
32.5°	10618.3	10759.1	10825.6	9931.7	8300.1	7305.7	7189.7	7683.1	8835.2	10305.9	10983.3
35°	11247.8	11410.1	11325.1	10231.7	8683.7	7624.3	7482.0	8106.8	9149.2	10604.4	11753.5
37.5°	12045.8	12232.9	11900.4	10547.2	9088.8	8103.7	8037.2	8702.2	9625.5	11031.3	12579.3
40°	12871.6	12979.9	12458.7	10930.7	9586.8	8801.2	8864.6	9586.8	10248.7	11543.1	13457.7
42.5°	13516.5	13618.6	13032.4	11252.4	10095.6	9628.6	9893.0	10653.9	10963.2	12067.4	14113.4
45°	14009.8	14096.4	13429.9	11603.5	10782.3	10827.1	11326.6	11753.5	11679.2	12387.5	14619.2
47.5°	14393.4	14467.6	13736.1	11980.8	11810.7	12293.2	13057.2	13238.1	12421.6	12734.0	15076.9
50°	14551.1	14572.8	13832.0	12461.8	12978.3	14161.4	14957.8	14848.0	13272.1	13119.0	15564.1
52.5°	14756.8	14752.2	14105.7	12919.5	14076.3	15831.6	16626.5	16377.5	14234.1	13695.9	16111.5
55°	15296.5	15302.7	14691.8	13569.1	15012.0	17180.2	18030.8	17849.8	15248.6	14670.2	16750.2
57.5°	15952.2	15975.4	15525.4	14328.4	15905.9	18157.6	19079.3	19009.7	16620.3	15754.3	17353.4
59°	16037.3	16083.7	15919.8	14863.5	16436.3	18457.6	19438.1	19506.1	17354.9	16468.8	17679.7
60°	15882.7	15960.0	16034.2	15166.6	16747.2	18565.8	19459.7	19592.7	17907.0	16954.4	17828.2
62.5°	15208.4	15330.5	15703.3	16099.2	17135.3	18228.7	18768.4	19046.8	18590.6	18230.3	17842.1
65°	14325.3	14388.7	14926.9	16264.6	16382.2	16654.4	16821.4	17178.6	17769.4	18722.0	17203.4
67.5°	12877.8	13064.9	13723.7	15304.3	14159.8	13838.2	13796.4	13440.7	14974.9	17549.8	15629.0
70°	10638.4	10722.0	11533.9	12546.8	10686.4	10191.5	10389.5	10256.5	11608.1	15107.9	12579.3
72.5°	8044.9	8233.6	9027.0	10001.3	7271.7	6629.9	7175.8	7126.3	8719.2	12141.6	8641.9
75°	5723.6	5845.8	6857.2	7826.9	5092.7	4314.8	4511.2	4695.2	6087.1	9586.8	5106.6
77.5°	3932.8	4037.9	4797.3	5176.2	3714.7	3558.5	3255.4	3433.3	3988.4	5688.1	2779.1
80°	2372.3	2367.7	2867.2	2960.0	2587.3	3004.9	2520.8	2830.1	2411.0	2434.2	1076.4
82.5°	1540.3	1524.9	1753.7	1911.5	1439.8	1514.0	1016.1	1464.5	1571.3	678.9	340.2
85°	689.7	719.1	842.8	1111.9	631.0	335.6	207.2	450.0	669.6	341.8	0.0
87.5°	71.1	55.7	148.5	270.6	86.6	9.3	30.9	15.5	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°	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1
2.5°	7361.4	7271.7	7004.1	6753.6	6538.6	6275.7	6105.6	5838.1	5675.7	5626.2	5633.9
5°	7066.0	6807.7	6298.9	5892.2	5439.1	5180.8	4788.0	4410.6	4206.5	4130.7	4096.7
7.5°	6447.4	6170.6	5556.6	4917.9	4432.3	3979.2	3686.9	3354.4	3127.0	2939.9	2907.4
10°	5988.1	5624.7	4863.8	4177.1	3793.6	3453.4	3161.1	2828.6	2561.0	2347.6	2288.8
12.5°	5712.8	5306.1	4457.0	3881.7	3518.3	3168.8	2788.4	2403.3	2129.5	1899.1	1792.4
15°	5663.3	5191.6	4342.6	3669.9	3221.4	2799.2	2293.5	1877.5	1596.0	1377.9	1311.4
17.5°	5961.8	5397.3	4325.6	3448.7	2833.2	2234.7	1708.9	1364.0	1047.0	924.8	876.9
20°	6493.8	5760.7	4324.0	3192.0	2434.2	1721.3	1200.1	889.2	760.9	702.1	674.3
22.5°	7219.1	6255.6	4406.0	2970.8	2019.7	1269.7	856.8	708.3	634.1	586.1	575.3
25°	8105.3	6988.7	4607.1	2820.8	1702.7	996.0	706.8	606.2	544.4	522.7	513.4
27.5°	8892.4	7690.8	4828.2	2666.2	1475.4	881.5	655.7	555.2	505.7	488.7	474.8
30°	9571.3	8328.0	4934.9	2462.0	1292.9	807.3	665.0	593.9	528.9	477.9	454.7
32.5°	10137.4	8816.7	5004.5	2276.5	1138.2	660.4	525.8	459.3	429.9	411.4	395.9
35°	10845.7	9345.6	4962.7	2171.3	1059.4	601.6	479.4	395.9	346.4	309.3	293.8
37.5°	11588.0	9874.5	4890.1	2084.7	1023.8	558.3	456.2	375.8	321.7	283.0	262.9
40°	12356.6	10364.7	4805.0	2004.3	991.3	530.5	442.3	358.8	304.7	262.9	241.3
42.5°	13060.3	10842.6	4771.0	1951.7	938.7	535.1	431.5	351.1	287.7	244.3	225.8
45°	13629.4	11295.7	4817.4	1923.9	881.5	527.4	434.6	341.8	273.7	232.0	213.4
47.5°	14237.2	11936.0	4967.4	1896.0	825.8	490.2	457.8	340.2	267.5	224.2	204.1
50°	14943.9	12755.6	5310.7	1828.0	757.8	450.0	487.2	338.7	259.8	215.0	194.9
52.5°	15885.7	13686.6	5664.9	1708.9	658.8	411.4	465.5	334.0	244.3	204.1	184.0
55°	16731.7	14667.1	5964.9	1568.2	533.5	355.7	419.1	313.9	218.1	185.6	167.0
57.5°	17081.2	15220.7	5955.6	1373.3	426.8	312.4	344.9	287.7	190.2	163.9	148.5
59°	16952.8	15151.2	5756.1	1229.5	389.7	289.2	286.1	284.6	177.8	148.5	136.1
60°	16771.9	14897.5	5541.1	1158.3	366.5	273.7	262.9	281.5	167.0	139.2	126.8
62.5°	16079.1	13845.9	4828.2	1037.7	335.6	232.0	210.3	238.2	148.5	120.6	109.8
65°	15075.4	12229.8	4087.4	1003.7	326.3	191.8	174.8	170.1	126.8	102.1	92.8
67.5°	13117.5	10349.2	3311.1	980.5	329.4	160.8	153.1	128.4	105.2	85.1	78.9
70°	10502.3	8069.7	2711.0	954.2	332.5	131.5	128.4	102.1	85.1	71.1	65.0
72.5°	6380.9	4783.4	2134.2	828.9	323.2	105.2	114.4	77.3	61.9	51.0	47.9
75°	3945.1	3274.0	1323.8	644.9	213.4	77.3	80.4	47.9	41.8	32.5	32.5
77.5°	2285.7	2067.7	473.2	232.0	94.3	46.4	35.6	24.7	23.2	13.9	13.9
80°	948.0	759.3	163.9	78.9	51.0	21.7	7.7	1.5	0.0	0.0	0.0
82.5°	276.8	245.9	44.8	35.6	15.5	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°	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1
2.5°	5502.5	5451.4	5428.2	5507.1	5434.4	5527.2	5456.1	5487.0	5578.3	5618.5	5722.1
5°	4118.4	4065.8	4041.0	4160.1	4153.9	4212.7	4206.5	4260.6	4307.0	4203.4	4310.1
7.5°	2868.8	2833.2	2892.0	2984.8	3083.7	3051.3	3051.3	2978.6	3003.3	2987.9	2983.2
10°	2182.1	2060.0	2029.0	2025.9	2063.0	2070.8	2029.0	1928.5	1965.6	1976.4	2041.4
12.5°	1716.6	1622.3	1478.5	1413.5	1396.5	1410.4	1272.8	1184.6	1226.4	1201.6	1265.0
15°	1231.0	1153.7	1068.6	996.0	975.8	948.0	798.0	692.8	680.5	685.1	695.9
17.5°	878.4	825.8	825.8	748.5	706.8	623.2	547.5	501.1	496.4	501.1	508.8
20°	648.0	620.2	617.1	597.0	550.6	494.9	442.3	433.0	429.9	437.7	440.8
22.5°	558.3	528.9	504.2	502.6	459.3	412.9	388.2	375.8	377.3	380.4	388.2
25°	499.5	468.6	442.3	426.8	395.9	363.4	340.2	334.0	334.0	338.7	340.2
27.5°	457.8	419.1	395.9	374.3	346.4	318.6	298.5	293.8	290.7	293.8	301.6
30°	428.4	389.7	360.3	327.9	306.2	279.9	262.9	256.7	255.2	256.7	262.9
32.5°	366.5	343.3	320.1	290.7	264.5	247.4	228.9	218.1	218.1	221.2	227.3
35°	276.8	264.5	262.9	255.2	233.5	215.0	193.3	182.5	182.5	188.7	191.8
37.5°	244.3	221.2	218.1	215.0	205.7	180.9	160.8	151.6	150.0	154.7	160.8
40°	222.7	196.4	182.5	179.4	180.9	153.1	131.5	122.2	122.2	123.7	129.9
42.5°	205.7	174.8	150.0	146.9	153.1	128.4	106.7	97.4	97.4	97.4	105.2
45°	191.8	156.2	126.8	111.3	120.6	105.2	86.6	77.3	74.2	77.3	80.4
47.5°	182.5	142.3	111.3	89.7	89.7	83.5	69.6	58.8	55.7	57.2	61.9
50°	174.8	129.9	94.3	72.7	65.0	66.5	52.6	44.8	41.8	41.8	46.4
52.5°	162.4	117.5	82.0	61.9	49.5	44.8	38.7	32.5	30.9	32.5	35.6
55°	146.9	106.7	71.1	51.0	38.7	30.9	27.8	23.2	21.7	23.2	27.8
57.5°	129.9	89.7	57.2	40.2	26.3	20.1	18.6	15.5	12.4	13.9	17.0
59°	119.1	80.4	49.5	32.5	20.1	13.9	13.9	10.8	7.7	9.3	13.9
60°	114.4	74.2	41.8	27.8	17.0	10.8	10.8	7.7	4.6	6.2	10.8
62.5°	97.4	61.9	32.5	17.0	7.7	1.5	4.6	1.5	0.0	1.5	4.6
65°	82.0	49.5	21.7	7.7	0.0	0.0	0.0	0.0	0.0	0.0	1.5
67.5°	68.0	37.1	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	54.1	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	37.1	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.3	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: P454552

CATALOG NUMBER: GALN-SA5C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1	6803.1
2.5°	5728.3	5949.4	6085.5	6342.2	6605.1	6807.7	7061.4	7288.7	7383.0	7432.5
5°	4418.4	4726.1	4987.5	5378.8	5742.2	6184.5	6633.0	7161.9	7364.5	7417.1
7.5°	3100.8	3414.7	3688.4	4141.6	4659.6	5251.9	5923.1	6594.3	6889.7	6973.2
10°	2239.3	2574.9	2909.0	3362.1	3846.2	4488.0	5187.0	6017.5	6357.7	6422.7
12.5°	1413.5	1773.8	2316.7	2876.5	3388.4	3904.9	4636.4	5539.6	5915.4	6034.5
15°	819.7	1088.7	1498.6	2228.5	2879.6	3563.2	4361.2	5360.2	5780.9	5903.0
17.5°	549.0	641.8	923.3	1481.6	2341.4	3247.7	4291.6	5507.1	5972.6	6128.8
20°	462.4	504.2	603.1	903.2	1803.2	2966.2	4310.1	5906.1	6517.0	6711.9
22.5°	406.7	445.4	508.8	649.5	1258.9	2616.7	4398.3	6476.8	7265.5	7514.5
25°	358.8	397.5	453.1	538.2	845.9	2213.1	4591.6	7311.9	8256.8	8530.5
27.5°	318.6	354.2	402.1	474.8	651.1	1763.0	4763.2	8125.4	9161.5	9384.2
30°	281.5	310.8	357.2	412.9	541.3	1359.4	4849.9	8836.8	9820.3	10067.8
32.5°	244.3	272.2	317.0	361.9	445.4	1036.2	4789.5	9359.5	10460.6	10618.3
35°	208.8	238.2	275.3	317.0	385.1	836.7	4488.0	9947.1	11124.0	11247.8
37.5°	179.4	204.1	242.8	275.3	348.0	669.6	4123.0	10476.1	11867.9	12045.8
40°	151.6	176.3	215.0	244.3	320.1	527.4	3793.6	11063.7	12652.0	12871.6
42.5°	123.7	153.1	187.1	235.1	275.3	402.1	3394.6	11540.1	13241.2	13516.5
45°	99.0	131.5	168.6	233.5	239.7	306.2	3009.5	11911.2	13762.4	14009.8
47.5°	78.9	111.3	162.4	218.1	196.4	242.8	2789.9	12299.4	14195.4	14393.4
50°	63.4	92.8	170.1	191.8	163.9	205.7	2783.7	12732.4	14419.7	14551.1
52.5°	51.0	75.8	143.8	146.9	139.2	180.9	2950.7	13219.6	14648.5	14756.8
55°	43.3	63.4	94.3	108.3	125.3	163.9	3076.0	13969.6	15194.5	15296.5
57.5°	34.0	54.1	72.7	86.6	111.3	150.0	3093.0	14548.0	15885.7	15952.2
59°	29.4	46.4	65.0	77.3	102.1	140.7	3023.4	14583.6	15930.6	16037.3
60°	24.7	41.8	57.2	72.7	94.3	133.0	2947.6	14325.3	15763.6	15882.7
62.5°	18.6	32.5	41.8	58.8	77.3	114.4	2588.9	13423.7	15124.9	15208.4
65°	12.4	23.2	30.9	43.3	60.3	99.0	2109.4	12254.5	14138.2	14325.3
67.5°	7.7	17.0	24.7	32.5	49.5	83.5	1503.2	10508.5	12757.2	12877.8
70°	4.6	10.8	18.6	26.3	38.7	66.5	892.3	8306.3	10613.7	10638.4
72.5°	3.1	7.7	12.4	18.6	30.9	60.3	433.0	5414.3	7749.6	8044.9
75°	1.5	4.6	7.7	13.9	24.7	49.5	207.2	3617.3	5638.6	5723.6
77.5°	0.0	1.5	4.6	9.3	18.6	38.7	120.6	2375.4	3844.6	3932.8
80°	0.0	0.0	3.1	7.7	13.9	24.7	72.7	1401.1	2329.0	2372.3
82.5°	0.0	0.0	1.5	6.2	9.3	18.6	37.1	615.5	1524.9	1540.3
85°	0.0	0.0	1.5	6.2	7.7	12.4	13.9	83.5	677.4	689.7
87.5°	0.0	0.0	1.5	7.7	7.7	7.7	7.7	4.6	57.2	71.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)