

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: P455248

Luminaire Tested: **GALN-SA6B-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455248
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-SA6B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 19256 lumens
Efficiency: N/A
Efficacy: 79.2 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): 243
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

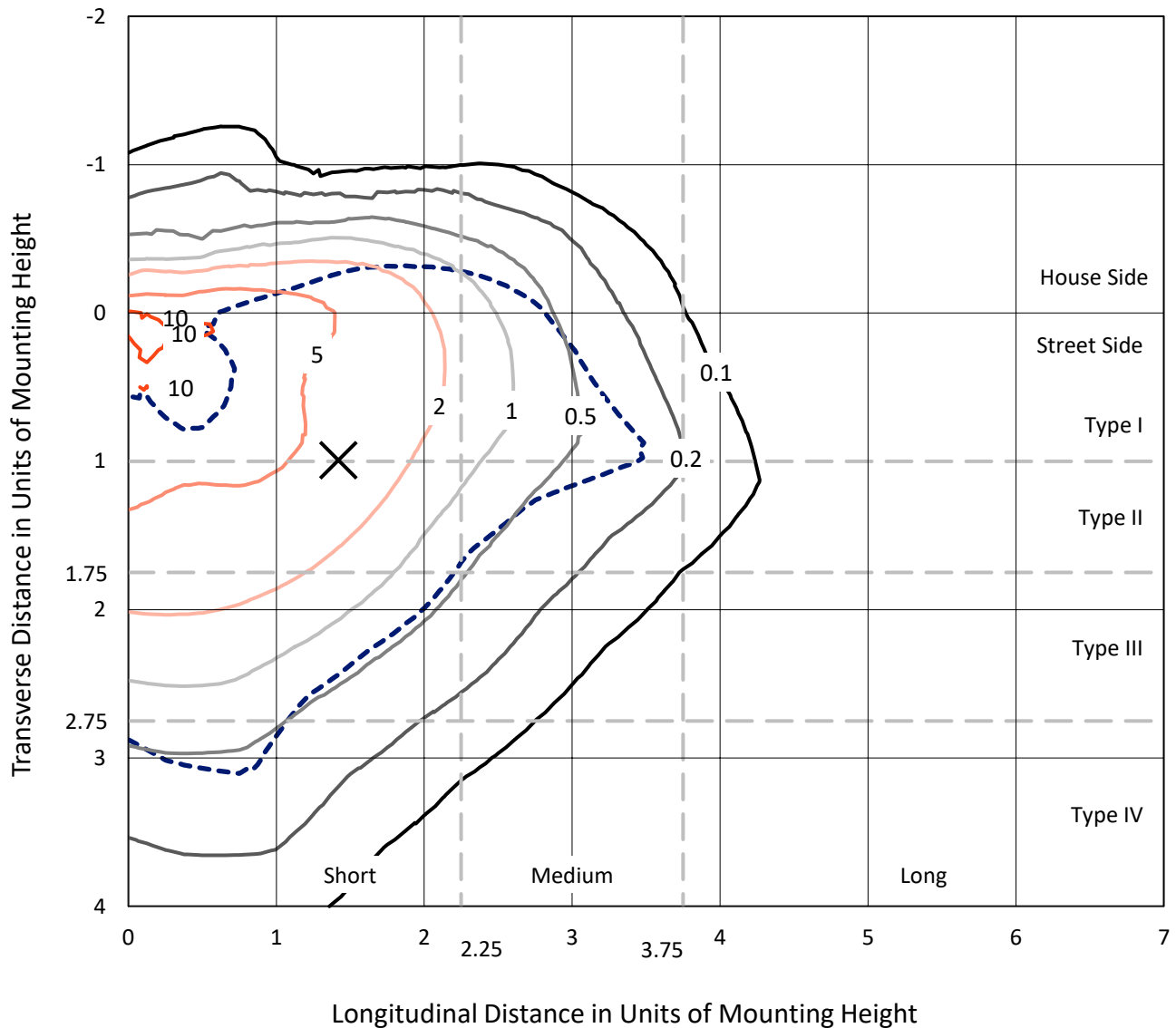


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Iso-Footcandle Lines of Horizontal Illumination

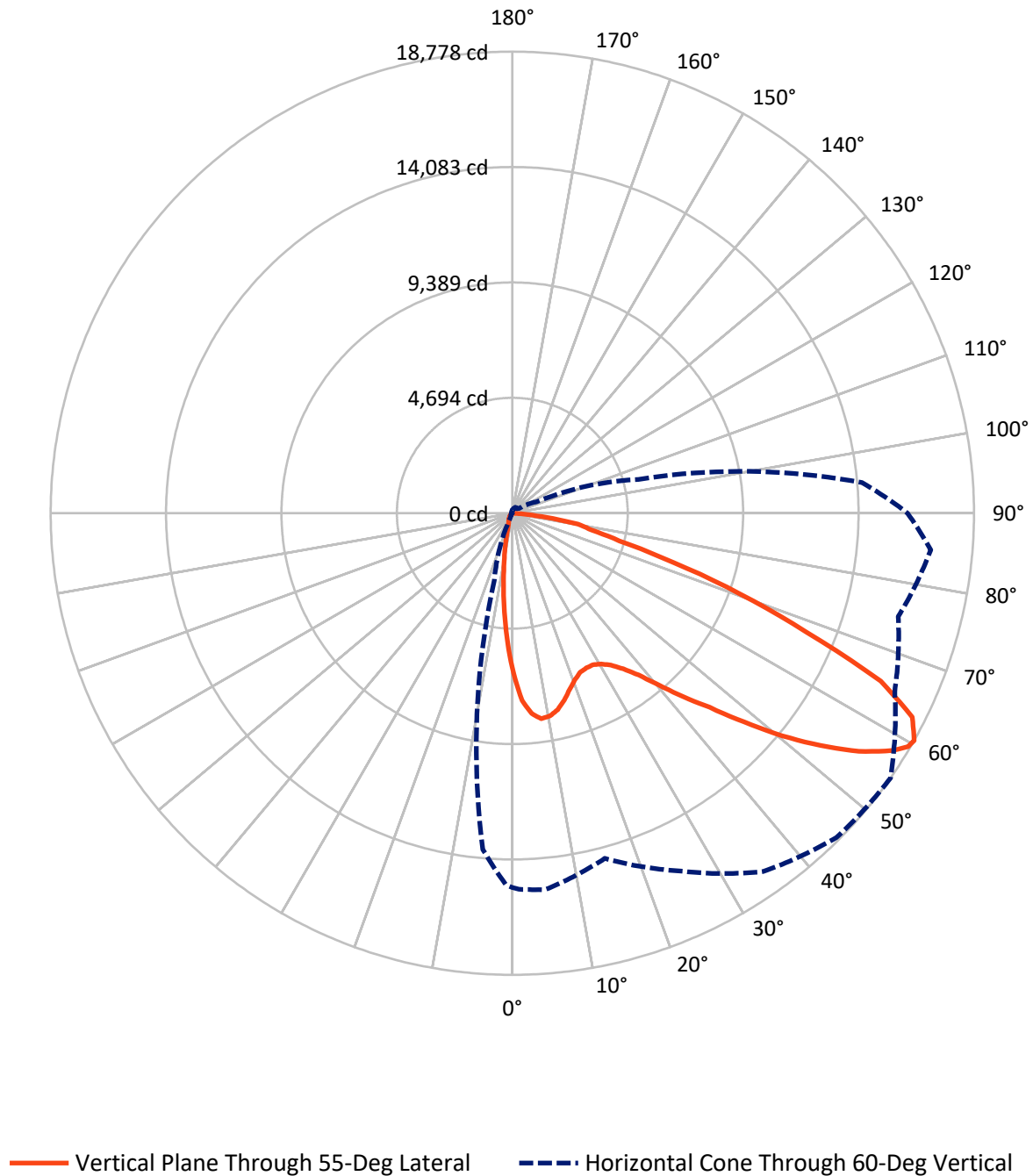
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	2857.8	0.0	2857.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	16398.2	0.0	16398.2
	% Fixture	85.2	0.0	85.2
Total	Lumens	19256.0	0.0	19256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.8	2.5
10°-20°	950.8	4.9
20°-30°	1407.3	7.3
30°-40°	2097.8	10.9
40°-50°	3072.2	16.0
50°-60°	4435.3	23.0
60°-70°	4665.7	24.2
70°-80°	1919.3	10.0
80°-90°	224.8	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°	19256.0	100.0
0°-180°	19256.0	100.0

Coefficient of Utilization



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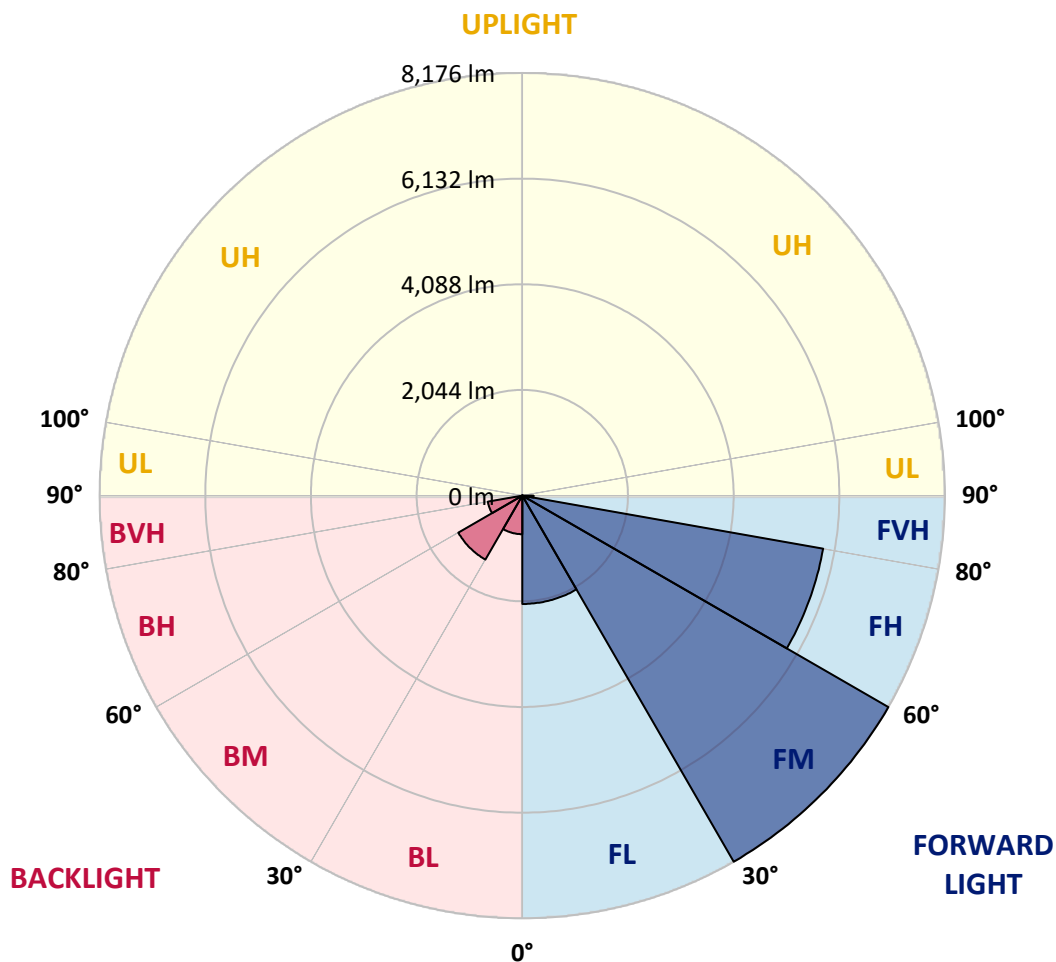
CATALOG NUMBER: GALN-SA6B-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2095.3	10.9			
FM	(30°-60°)	8176.1	42.5			
FH	(60°-80°)	5908.6	30.7			G3/7500
FVH	(80°-90°)	218.2	1.1			G2/225
BL	(0°-30°)	745.6	3.9	B2/1000		
BM	(30°-60°)	1429.1	7.4	B2/2500		
BH	(60°-80°)	676.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.6	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°	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0
2.5°	7123.3	7111.4	7216.6	7388.6	7562.0	7652.4	7634.6	7627.2	7483.4	7378.2	7157.4
5°	7108.4	7169.2	7357.4	7822.8	8175.6	8346.1	8396.4	8184.5	7904.4	7498.3	6997.3
7.5°	6683.1	6758.7	7065.5	7793.2	8420.2	8790.7	8777.4	8437.9	7859.9	7231.5	6517.1
10°	6155.4	6244.3	6604.5	7487.9	8301.6	8790.7	8817.4	8387.6	7668.7	6862.4	6111.0
12.5°	5783.4	5888.6	6287.3	7203.3	7996.3	8478.0	8509.1	8197.8	7524.9	6720.1	5890.1
15°	5657.4	5756.7	6161.3	7059.5	7671.7	7931.0	7923.6	7891.0	7468.6	6754.2	5902.0
17.5°	5873.8	5955.3	6411.8	7124.8	7367.8	7341.1	7379.7	7536.8	7480.5	7040.3	6275.5
20°	6432.6	6515.6	7006.2	7324.8	7135.1	6966.2	6983.9	7246.3	7590.1	7578.3	6859.4
22.5°	7201.8	7342.6	7787.3	7713.2	7104.0	6733.5	6696.4	7037.3	7776.9	8197.8	7648.0
25°	8175.6	8317.9	8664.7	8332.7	7256.7	6678.6	6644.5	6973.6	8003.7	8802.6	8535.8
27.5°	8993.8	9102.0	9447.3	8936.0	7482.0	6702.3	6646.0	6982.5	8187.5	9316.9	9284.3
30°	9648.9	9728.9	9932.0	9217.6	7676.1	6806.1	6740.9	7112.9	8269.0	9567.4	9890.5
32.5°	10176.5	10311.4	10375.1	9518.4	7954.8	7001.7	6890.6	7363.4	8467.6	9877.1	10526.3
35°	10779.8	10935.4	10853.9	9806.0	8322.3	7307.1	7170.7	7769.5	8768.5	10163.2	11264.4
37.5°	11544.6	11723.9	11405.2	10108.3	8710.7	7766.5	7702.8	8340.1	9225.0	10572.3	12055.9
40°	12336.0	12439.8	11940.3	10475.9	9187.9	8435.0	8495.7	9187.9	9822.3	11062.9	12897.8
42.5°	12954.1	13051.9	12490.2	10784.2	9675.6	9227.9	9481.4	10210.6	10507.0	11565.3	13526.2
45°	13426.9	13509.9	12871.1	11120.7	10333.6	10376.6	10855.4	11264.4	11193.3	11872.1	14010.9
47.5°	13794.5	13865.6	13164.6	11482.3	11319.3	11781.7	12513.9	12687.3	11904.7	12204.1	14449.6
50°	13945.7	13966.4	13256.5	11943.3	12438.3	13572.2	14335.5	14230.2	12719.9	12573.2	14916.5
52.5°	14142.8	14138.3	13518.8	12382.0	13490.6	15172.9	15934.7	15696.1	13641.8	13126.0	15441.2
55°	14660.1	14666.0	14080.5	13004.5	14387.3	16465.3	17280.5	17107.1	14614.1	14059.8	16053.3
57.5°	15288.5	15310.7	14879.4	13732.2	15244.0	17402.1	18285.4	18218.7	15928.8	15098.8	16631.3
59°	15370.0	15414.5	15257.4	14245.1	15752.4	17689.6	18629.3	18694.5	16632.8	15783.5	16944.1
60°	15221.8	15295.9	15367.1	14535.6	16050.3	17793.3	18650.0	18777.5	17161.9	16248.9	17086.4
62.5°	14575.6	14692.7	15049.9	15429.3	16422.3	17470.2	17987.5	18254.3	17817.1	17471.7	17099.7
65°	13729.3	13790.0	14305.8	15587.9	15700.5	15961.4	16121.5	16463.8	17030.0	17943.0	16487.6
67.5°	12342.0	12521.3	13152.7	14667.5	13570.7	13262.4	13222.4	12881.5	14351.8	16819.6	14978.7
70°	10195.8	10275.8	11054.0	12024.8	10241.7	9767.4	9957.2	9829.7	11125.1	14479.2	12055.9
72.5°	7710.2	7891.0	8651.4	9585.1	6969.1	6354.0	6877.2	6829.8	8356.4	11636.4	8282.3
75°	5485.5	5602.6	6571.9	7501.2	4880.8	4135.2	4323.5	4499.8	5833.8	9187.9	4894.1
77.5°	3769.1	3869.9	4597.7	4960.8	3560.2	3410.5	3119.9	3290.4	3822.5	5451.4	2663.4
80°	2273.6	2269.2	2747.9	2836.9	2479.7	2879.8	2415.9	2712.4	2310.7	2332.9	1031.6
82.5°	1476.2	1461.4	1680.8	1832.0	1379.9	1451.0	973.8	1403.6	1505.9	650.7	326.1
85°	661.0	689.2	807.8	1065.7	604.7	321.6	198.6	431.3	641.8	327.6	0.0
87.5°	68.2	53.4	142.3	259.4	83.0	8.9	29.6	14.8	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°	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0
2.5°	7055.1	6969.1	6712.7	6472.6	6266.6	6014.6	5851.6	5595.2	5439.5	5392.1	5399.5
5°	6772.0	6524.5	6036.8	5647.0	5212.8	4965.2	4588.8	4227.1	4031.5	3958.9	3926.2
7.5°	6179.1	5913.8	5325.4	4713.3	4247.9	3813.6	3533.5	3214.8	2996.9	2817.6	2786.5
10°	5738.9	5390.6	4661.4	4003.3	3635.7	3309.7	3029.5	2710.9	2454.5	2249.9	2193.6
12.5°	5475.1	5085.3	4271.6	3720.2	3371.9	3036.9	2672.3	2303.3	2040.9	1820.1	1717.8
15°	5427.7	4975.6	4161.9	3517.2	3087.3	2682.7	2198.0	1799.3	1529.6	1320.6	1256.9
17.5°	5713.7	5172.7	4145.6	3305.2	2715.3	2141.7	1637.8	1307.3	1003.4	886.3	840.4
20°	6223.6	5521.1	4144.1	3059.2	2332.9	1649.6	1150.2	852.2	729.2	672.9	646.2
22.5°	6918.7	5995.3	4222.7	2847.2	1935.7	1216.9	821.1	678.8	607.7	561.7	551.4
25°	7768.0	6697.9	4415.4	2703.5	1631.9	954.5	677.3	581.0	521.7	501.0	492.1
27.5°	8522.4	7370.8	4627.3	2555.2	1414.0	844.8	628.4	532.1	484.7	468.4	455.0
30°	9173.1	7981.4	4729.6	2359.6	1239.1	773.7	637.3	569.2	506.9	458.0	435.8
32.5°	9715.6	8449.8	4796.3	2181.7	1090.9	632.9	503.9	440.2	412.0	394.3	379.4
35°	10394.4	8956.7	4756.3	2081.0	1015.3	576.6	459.5	379.4	332.0	296.4	281.6
37.5°	11105.8	9463.6	4686.6	1998.0	981.2	535.1	437.2	360.2	308.3	271.2	252.0
40°	11842.5	9933.4	4605.1	1920.9	950.1	508.4	423.9	343.9	292.0	252.0	231.2
42.5°	12516.9	10391.4	4572.5	1870.5	899.7	512.8	413.5	336.5	275.7	234.2	216.4
45°	13062.3	10825.7	4616.9	1843.8	844.8	505.4	416.5	327.6	262.3	222.3	204.5
47.5°	13644.8	11439.3	4760.7	1817.1	791.5	469.8	438.7	326.1	256.4	214.9	195.6
50°	14322.1	12224.9	5089.7	1751.9	726.3	431.3	466.9	324.6	249.0	206.0	186.8
52.5°	15224.8	13117.1	5429.2	1637.8	631.4	394.3	446.1	320.1	234.2	195.6	176.4
55°	16035.5	14056.8	5716.7	1502.9	511.3	340.9	401.7	300.9	209.0	177.9	160.1
57.5°	16370.5	14587.4	5707.8	1316.2	409.1	299.4	330.5	275.7	182.3	157.1	142.3
59°	16247.5	14520.7	5516.6	1178.3	373.5	277.2	274.2	272.7	170.4	142.3	130.4
60°	16074.0	14277.7	5310.6	1110.1	351.3	262.3	252.0	269.8	160.1	133.4	121.5
62.5°	15410.0	13269.8	4627.3	994.5	321.6	222.3	201.6	228.3	142.3	115.6	105.2
65°	14448.1	11720.9	3917.4	961.9	312.7	183.8	167.5	163.0	121.5	97.8	88.9
67.5°	12571.7	9918.6	3173.3	939.7	315.7	154.1	146.7	123.0	100.8	81.5	75.6
70°	10065.4	7733.9	2598.2	914.5	318.7	126.0	123.0	97.8	81.5	68.2	62.3
72.5°	6115.4	4584.3	2045.4	794.4	309.8	100.8	109.7	74.1	59.3	48.9	45.9
75°	3781.0	3137.7	1268.7	618.1	204.5	74.1	77.1	45.9	40.0	31.1	31.1
77.5°	2190.6	1981.6	453.5	222.3	90.4	44.5	34.1	23.7	22.2	13.3	13.3
80°	908.6	727.7	157.1	75.6	48.9	20.8	7.4	1.5	0.0	0.0	0.0
82.5°	265.3	235.7	43.0	34.1	14.8	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°	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0
2.5°	5273.5	5224.6	5202.4	5278.0	5208.3	5297.2	5229.1	5258.7	5346.2	5384.7	5484.0
5°	3947.0	3896.6	3872.9	3987.0	3981.1	4037.4	4031.5	4083.4	4127.8	4028.5	4130.8
7.5°	2749.4	2715.3	2771.6	2860.6	2955.4	2924.3	2924.3	2854.6	2878.4	2863.5	2859.1
10°	2091.3	1974.2	1944.6	1941.6	1977.2	1984.6	1944.6	1848.3	1883.8	1894.2	1956.5
12.5°	1645.2	1554.8	1416.9	1354.7	1338.4	1351.7	1219.8	1135.3	1175.4	1151.6	1212.4
15°	1179.8	1105.7	1024.2	954.5	935.2	908.6	764.8	664.0	652.2	656.6	667.0
17.5°	841.9	791.5	791.5	717.4	677.3	597.3	524.7	480.2	475.8	480.2	487.6
20°	621.0	594.3	591.4	572.1	527.6	474.3	423.9	415.0	412.0	419.5	422.4
22.5°	535.1	506.9	483.2	481.7	440.2	395.7	372.0	360.2	361.6	364.6	372.0
25°	478.7	449.1	423.9	409.1	379.4	348.3	326.1	320.1	320.1	324.6	326.1
27.5°	438.7	401.7	379.4	358.7	332.0	305.3	286.1	281.6	278.6	281.6	289.0
30°	410.6	373.5	345.3	314.2	293.5	268.3	252.0	246.0	244.6	246.0	252.0
32.5°	351.3	329.0	306.8	278.6	253.4	237.1	219.4	209.0	209.0	211.9	217.9
35°	265.3	253.4	252.0	244.6	223.8	206.0	185.3	174.9	174.9	180.8	183.8
37.5°	234.2	211.9	209.0	206.0	197.1	173.4	154.1	145.3	143.8	148.2	154.1
40°	213.4	188.2	174.9	171.9	173.4	146.7	126.0	117.1	117.1	118.6	124.5
42.5°	197.1	167.5	143.8	140.8	146.7	123.0	102.3	93.4	93.4	93.4	100.8
45°	183.8	149.7	121.5	106.7	115.6	100.8	83.0	74.1	71.1	74.1	77.1
47.5°	174.9	136.4	106.7	86.0	86.0	80.0	66.7	56.3	53.4	54.8	59.3
50°	167.5	124.5	90.4	69.7	62.3	63.7	50.4	43.0	40.0	40.0	44.5
52.5°	155.6	112.6	78.6	59.3	47.4	43.0	37.1	31.1	29.6	31.1	34.1
55°	140.8	102.3	68.2	48.9	37.1	29.6	26.7	22.2	20.8	22.2	26.7
57.5°	124.5	86.0	54.8	38.5	25.2	19.3	17.8	14.8	11.9	13.3	16.3
59°	114.1	77.1	47.4	31.1	19.3	13.3	13.3	10.4	7.4	8.9	13.3
60°	109.7	71.1	40.0	26.7	16.3	10.4	10.4	7.4	4.4	5.9	10.4
62.5°	93.4	59.3	31.1	16.3	7.4	1.5	4.4	1.5	0.0	1.5	4.4
65°	78.6	47.4	20.8	7.4	0.0	0.0	0.0	0.0	0.0	0.0	1.5
67.5°	65.2	35.6	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	51.9	23.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	35.6	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.9	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: P455248

CATALOG NUMBER: GALN-SA6B-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0	6520.0
2.5°	5489.9	5701.9	5832.3	6078.3	6330.3	6524.5	6767.5	6985.4	7075.8	7123.3
5°	4234.5	4529.5	4780.0	5155.0	5503.3	5927.2	6357.0	6863.9	7058.1	7108.4
7.5°	2971.7	3272.6	3535.0	3969.2	4465.8	5033.4	5676.7	6319.9	6603.0	6683.1
10°	2146.2	2467.8	2787.9	3222.2	3686.1	4301.2	4971.2	5767.1	6093.2	6155.4
12.5°	1354.7	1700.0	2220.3	2756.8	3247.4	3742.5	4443.5	5309.1	5669.3	5783.4
15°	785.5	1043.4	1436.2	2135.8	2759.8	3414.9	4179.7	5137.2	5540.3	5657.4
17.5°	526.2	615.1	884.9	1419.9	2244.0	3112.5	4113.0	5278.0	5724.1	5873.8
20°	443.2	483.2	578.0	865.6	1728.2	2842.8	4130.8	5660.4	6245.8	6432.6
22.5°	389.8	426.9	487.6	622.5	1206.5	2507.8	4215.3	6207.3	6963.2	7201.8
25°	343.9	380.9	434.3	515.8	810.7	2121.0	4400.5	7007.7	7913.3	8175.6
27.5°	305.3	339.4	385.4	455.0	624.0	1689.7	4565.1	7787.3	8780.3	8993.8
30°	269.8	297.9	342.4	395.7	518.8	1302.8	4648.1	8469.1	9411.7	9648.9
32.5°	234.2	260.9	303.8	346.8	426.9	993.0	4590.3	8970.0	10025.3	10176.5
35°	200.1	228.3	263.8	303.8	369.1	801.8	4301.2	9533.3	10661.2	10779.8
37.5°	171.9	195.6	232.7	263.8	333.5	641.8	3951.4	10040.2	11374.1	11544.6
40°	145.3	169.0	206.0	234.2	306.8	505.4	3635.7	10603.4	12125.6	12336.0
42.5°	118.6	146.7	179.3	225.3	263.8	385.4	3253.3	11059.9	12690.3	12954.1
45°	94.9	126.0	161.6	223.8	229.7	293.5	2884.3	11415.6	13189.8	13426.9
47.5°	75.6	106.7	155.6	209.0	188.2	232.7	2673.8	11787.6	13604.8	13794.5
50°	60.8	88.9	163.0	183.8	157.1	197.1	2667.9	12202.6	13819.7	13945.7
52.5°	48.9	72.6	137.8	140.8	133.4	173.4	2828.0	12669.5	14039.0	14142.8
55°	41.5	60.8	90.4	103.8	120.1	157.1	2948.0	13388.4	14562.2	14660.1
57.5°	32.6	51.9	69.7	83.0	106.7	143.8	2964.3	13942.7	15224.8	15288.5
59°	28.2	44.5	62.3	74.1	97.8	134.9	2897.6	13976.8	15267.7	15370.0
60°	23.7	40.0	54.8	69.7	90.4	127.5	2825.0	13729.3	15107.7	15221.8
62.5°	17.8	31.1	40.0	56.3	74.1	109.7	2481.1	12865.2	14495.5	14575.6
65°	11.9	22.2	29.6	41.5	57.8	94.9	2021.7	11744.6	13549.9	13729.3
67.5°	7.4	16.3	23.7	31.1	47.4	80.0	1440.7	10071.3	12226.4	12342.0
70°	4.4	10.4	17.8	25.2	37.1	63.7	855.2	7960.7	10172.1	10195.8
72.5°	3.0	7.4	11.9	17.8	29.6	57.8	415.0	5189.0	7427.1	7710.2
75°	1.5	4.4	7.4	13.3	23.7	47.4	198.6	3466.8	5404.0	5485.5
77.5°	0.0	1.5	4.4	8.9	17.8	37.1	115.6	2276.6	3684.7	3769.1
80°	0.0	0.0	3.0	7.4	13.3	23.7	69.7	1342.8	2232.1	2273.6
82.5°	0.0	0.0	1.5	5.9	8.9	17.8	35.6	589.9	1461.4	1476.2
85°	0.0	0.0	1.5	5.9	7.4	11.9	13.3	80.0	649.2	661.0
87.5°	0.0	0.0	1.5	7.4	7.4	7.4	7.4	4.4	54.8	68.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)