

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: P456176

Luminaire Tested: **GALN-SA7B-830-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456176  
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-SA7B-830-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 22618 lumens  
Efficiency: N/A  
Efficacy: 79.1 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): 286  
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

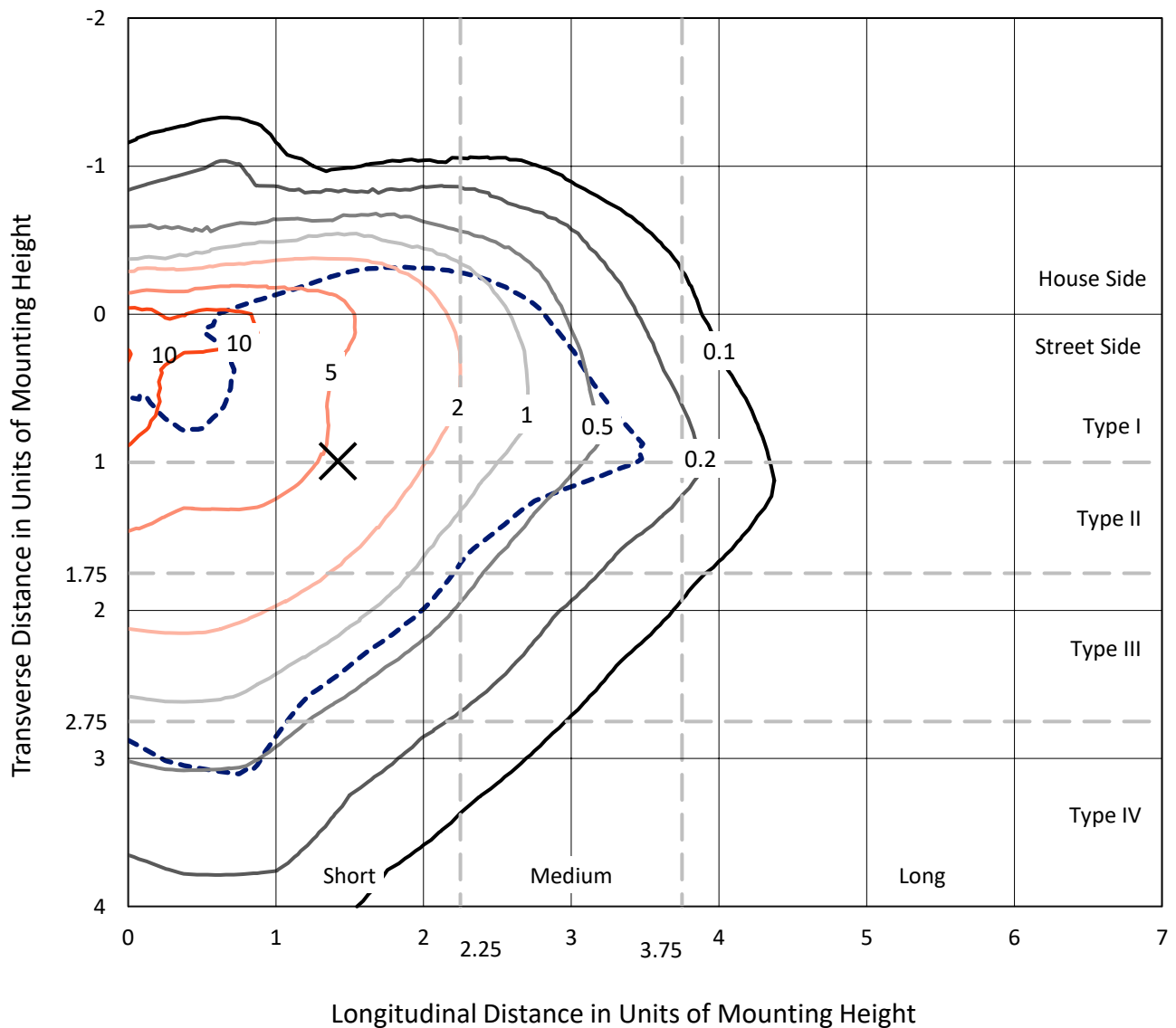




REPORT NUMBER: P456176  
 CATALOG NUMBER: GALN-SA7B-830-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

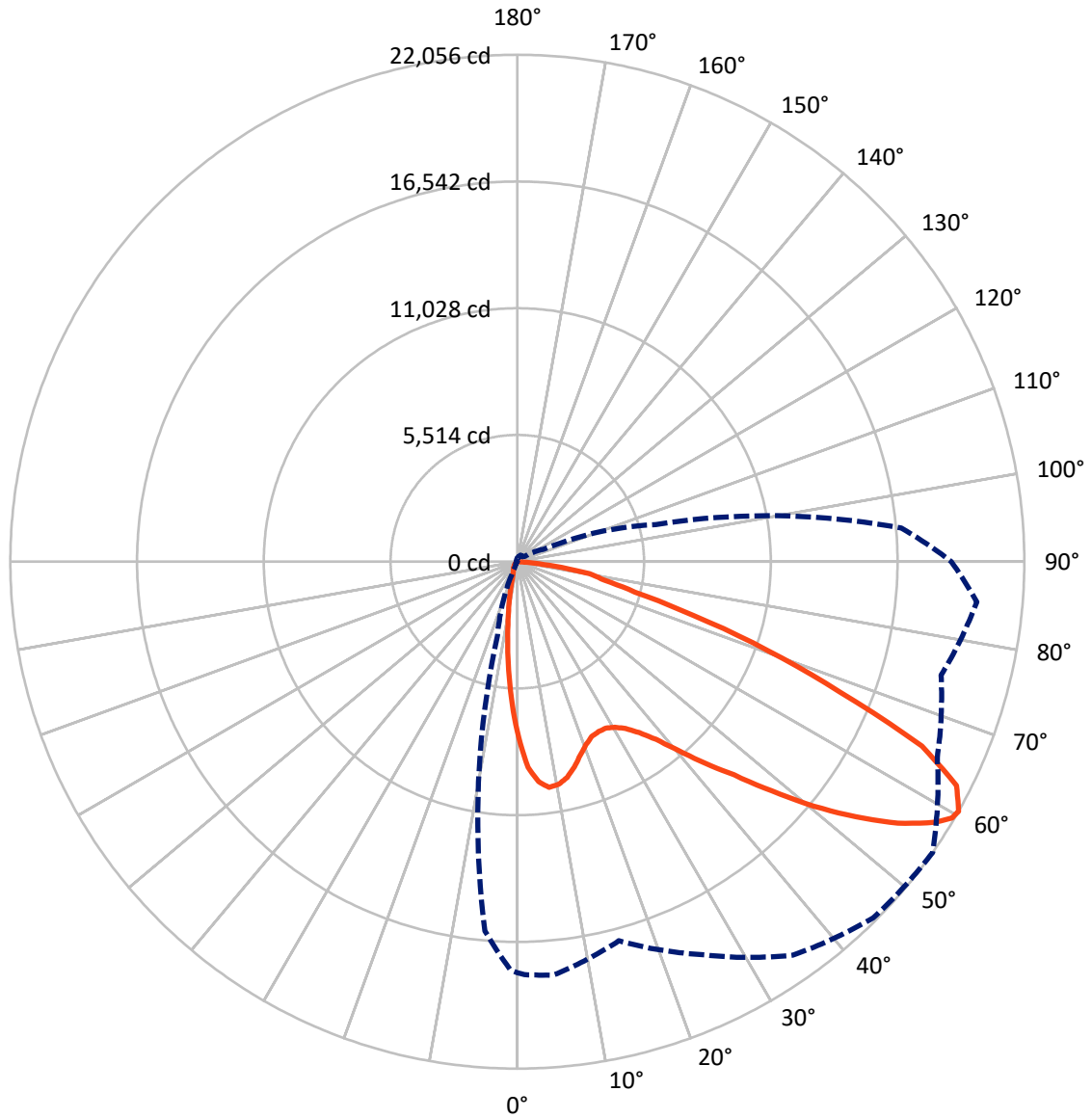
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P456176  
CATALOG NUMBER: GALN-SA7B-830-U-SLL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P456176

CATALOG NUMBER: GALN-SA7B-830-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3356.7	0.0	3356.7
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	19261.3	0.0	19261.3
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	22618.0	0.0	22618.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	567.1	2.5
10°-20°	1116.8	4.9
20°-30°	1653.0	7.3
30°-40°	2464.0	10.9
40°-50°	3608.6	16.0
50°-60°	5209.7	23.0
60°-70°	5480.3	24.2
70°-80°	2254.4	10.0
80°-90°	264.0	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°	22618.0	100.0
0°-180°	22618.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456176

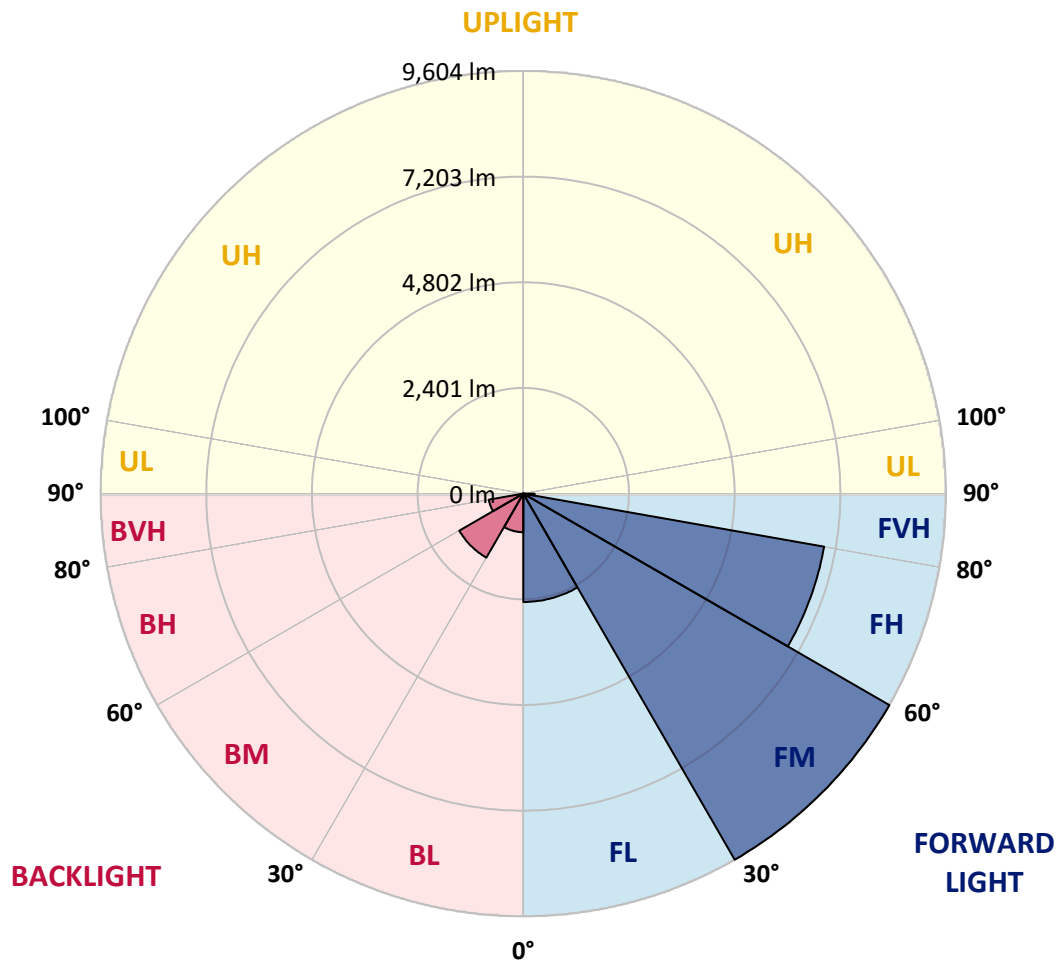
CATALOG NUMBER: GALN-SA7B-830-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2461.2	10.9			
FM	(30°-60°)	9603.6	42.5			
FH	(60°-80°)	6940.2	30.7			G3/7500
FVH	(80°-90°)	256.3	1.1			G3/500
BL	(0°-30°)	875.8	3.9	B2/1000		
BM	(30°-60°)	1678.7	7.4	B2/2500		
BH	(60°-80°)	794.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.8	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





REPORT NUMBER: P456176

CATALOG NUMBER: GALN-SA7B-830-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4
2.5°	8367.0	8353.0	8476.6	8678.6	8882.3	8988.5	8967.6	8958.9	8790.0	8666.4	8407.0
5°	8349.5	8420.9	8642.0	9188.7	9603.0	9803.2	9862.4	9613.5	9284.4	8807.4	8219.0
7.5°	7849.9	7938.7	8299.1	9153.9	9890.3	10325.5	10309.8	9911.2	9232.2	8494.0	7654.9
10°	7230.1	7334.6	7757.6	8795.2	9751.0	10325.5	10356.8	9852.0	9007.6	8060.5	7177.9
12.5°	6793.1	6916.8	7385.1	8461.0	9392.4	9958.2	9994.7	9629.1	8838.7	7893.4	6918.5
15°	6645.2	6761.8	7237.1	8292.1	9011.1	9315.8	9307.1	9268.8	8772.6	7933.5	6932.4
17.5°	6899.3	6995.1	7531.3	8368.7	8654.2	8622.9	8668.1	8852.7	8786.5	8269.5	7371.1
20°	7555.7	7653.2	8229.4	8603.7	8380.9	8182.4	8203.3	8511.5	8915.4	8901.4	8057.1
22.5°	8459.2	8624.6	9146.9	9059.8	8344.3	7909.1	7865.6	8266.0	9134.7	9629.1	8983.2
25°	9603.0	9770.2	10177.5	9787.6	8523.6	7844.7	7804.6	8191.1	9401.1	10339.4	10026.1
27.5°	10564.0	10691.1	11096.7	10496.1	8788.3	7872.5	7806.4	8201.6	9616.9	10943.5	10905.2
30°	11333.5	11427.5	11666.0	10826.9	9016.3	7994.4	7917.8	8354.8	9712.7	11237.8	11617.3
32.5°	11953.3	12111.7	12186.6	11180.3	9343.6	8224.2	8093.6	8649.0	9946.0	11601.6	12364.2
35°	12661.9	12844.7	12748.9	11518.1	9775.4	8582.8	8422.7	9126.0	10299.4	11937.6	13231.1
37.5°	13560.2	13770.8	13396.5	11873.2	10231.5	9122.5	9047.7	9796.3	10835.6	12418.1	14160.8
40°	14489.8	14611.7	14025.0	12305.0	10792.1	9907.7	9979.1	10792.1	11537.2	12994.4	15149.7
42.5°	15215.8	15330.7	14670.9	12667.1	11364.9	10839.1	11136.8	11993.3	12341.5	13584.5	15887.8
45°	15771.2	15868.7	15118.3	13062.3	12137.8	12188.3	12750.6	13231.1	13147.6	13944.9	16457.1
47.5°	16202.9	16286.5	15463.0	13487.1	13295.6	13838.7	14698.8	14902.4	13983.2	14334.9	16972.4
50°	16380.5	16404.9	15571.0	14028.5	14610.0	15941.8	16838.4	16714.8	14940.7	14768.4	17520.8
52.5°	16612.0	16606.8	15879.1	14543.8	15846.0	17822.0	18716.8	18436.5	16023.6	15417.8	18137.1
55°	17219.6	17226.6	16538.9	15275.0	16899.3	19340.1	20297.6	20093.9	17165.7	16514.6	18856.1
57.5°	17957.8	17983.9	17477.3	16129.8	17905.6	20440.4	21478.0	21399.6	18709.9	17734.9	19535.1
59°	18053.5	18105.8	17921.2	16732.2	18502.7	20778.1	21881.9	21958.5	19536.8	18539.3	19902.4
60°	17879.4	17966.5	18050.1	17073.4	18852.6	20900.0	21906.2	22056.0	20158.3	19085.9	20069.5
62.5°	17120.4	17257.9	17677.5	18123.2	19289.6	20520.5	21128.0	21441.4	20927.8	20522.2	20085.2
65°	16126.3	16197.7	16803.5	18309.5	18441.8	18748.2	18936.2	19338.4	20003.4	21075.8	19366.2
67.5°	14496.8	14707.5	15449.1	17228.3	15940.0	15577.9	15530.9	15130.5	16857.5	19756.2	17593.9
70°	11975.9	12069.9	12983.9	14124.2	12029.9	11472.8	11695.6	11545.9	13067.5	17007.2	14160.8
72.5°	9056.4	9268.8	10161.9	11258.7	8185.9	7463.4	8078.0	8022.2	9815.4	13668.1	9728.4
75°	6443.2	6580.8	7719.3	8810.9	5732.9	4857.2	5078.3	5285.5	6852.3	10792.1	5748.6
77.5°	4427.2	4545.6	5400.4	5826.9	4181.7	4005.9	3664.7	3864.9	4489.9	6403.2	3128.5
80°	2670.6	2665.4	3227.7	3332.2	2912.6	3382.6	2837.7	3185.9	2714.1	2740.2	1211.7
82.5°	1734.0	1716.6	1974.2	2151.8	1620.8	1704.4	1143.8	1648.7	1768.8	764.3	383.0
85°	776.5	809.5	948.8	1251.7	710.3	377.8	233.3	506.6	753.8	384.7	0.0
87.5°	80.1	62.7	167.1	304.7	97.5	10.4	34.8	17.4	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°	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4
2.5°	8286.9	8185.9	7884.7	7602.7	7360.7	7064.7	6873.2	6572.0	6389.2	6333.5	6342.2
5°	7954.4	7663.6	7090.8	6633.0	6122.9	5832.1	5389.9	4965.2	4735.4	4650.0	4611.7
7.5°	7258.0	6946.3	6255.2	5536.2	4989.5	4479.4	4150.4	3776.1	3520.2	3309.5	3273.0
10°	6740.9	6331.8	5475.3	4702.3	4270.5	3887.5	3558.5	3184.2	2883.0	2642.7	2576.6
12.5°	6431.0	5973.2	5017.4	4369.8	3960.6	3567.2	3138.9	2705.4	2397.3	2137.9	2017.7
15°	6375.3	5844.3	4888.6	4131.2	3626.4	3151.1	2581.8	2113.5	1796.6	1551.2	1476.3
17.5°	6711.3	6075.9	4869.4	3882.3	3189.4	2515.7	1923.7	1535.5	1178.6	1041.1	987.1
20°	7310.2	6485.0	4867.7	3593.3	2740.2	1937.7	1351.0	1001.0	856.5	790.4	759.0
22.5°	8126.7	7042.1	4959.9	3344.3	2273.7	1429.3	964.5	797.4	713.8	659.8	647.6
25°	9124.3	7867.3	5186.3	3175.5	1916.8	1121.2	795.6	682.4	612.8	588.4	578.0
27.5°	10010.4	8657.7	5435.2	3001.4	1660.9	992.3	738.2	625.0	569.3	550.1	534.5
30°	10774.7	9375.0	5555.3	2771.6	1455.4	908.8	748.6	668.5	595.4	538.0	511.8
32.5°	11411.9	9925.1	5633.7	2562.7	1281.3	743.4	591.9	517.1	484.0	463.1	445.7
35°	12209.2	10520.5	5586.7	2444.3	1192.5	677.2	539.7	445.7	390.0	348.2	330.8
37.5°	13044.9	11115.9	5504.9	2346.8	1152.5	628.5	513.6	423.0	362.1	318.6	296.0
40°	13910.1	11667.8	5409.1	2256.3	1115.9	597.1	497.9	403.9	343.0	296.0	271.6
42.5°	14702.2	12205.7	5370.8	2197.1	1056.8	602.4	485.7	395.2	323.8	275.1	254.2
45°	15342.9	12715.8	5423.0	2165.7	992.3	593.7	489.2	384.7	308.1	261.1	240.2
47.5°	16027.1	13436.6	5591.9	2134.4	929.7	551.9	515.3	383.0	301.2	252.4	229.8
50°	16822.7	14359.3	5978.4	2057.8	853.1	506.6	548.4	381.3	292.5	242.0	219.4
52.5°	17882.9	15407.3	6377.1	1923.7	741.6	463.1	524.0	376.0	275.1	229.8	207.2
55°	18835.2	16511.1	6714.8	1765.3	600.6	400.4	471.8	353.4	245.5	208.9	188.0
57.5°	19228.7	17134.3	6704.4	1546.0	480.5	351.7	388.2	323.8	214.1	184.5	167.1
59°	19084.2	17056.0	6479.8	1384.0	438.7	325.6	322.1	320.3	200.2	167.1	153.2
60°	18880.5	16770.5	6237.8	1304.0	412.6	308.1	296.0	316.9	188.0	156.7	142.8
62.5°	18100.5	15586.6	5435.2	1168.2	377.8	261.1	236.8	268.1	167.1	135.8	123.6
65°	16970.7	13767.3	4601.3	1129.9	367.3	215.9	196.7	191.5	142.8	114.9	104.5
67.5°	14766.6	11650.4	3727.4	1103.8	370.8	181.1	172.4	144.5	118.4	95.8	88.8
70°	11822.7	9084.2	3051.9	1074.2	374.3	148.0	144.5	114.9	95.8	80.1	73.1
72.5°	7183.1	5384.7	2402.5	933.1	363.9	118.4	128.8	87.0	69.6	57.5	54.0
75°	4441.1	3685.6	1490.2	726.0	240.2	87.0	90.5	54.0	47.0	36.6	36.6
77.5°	2573.1	2327.6	532.7	261.1	106.2	52.2	40.0	27.9	26.1	15.7	15.7
80°	1067.2	854.8	184.5	88.8	57.5	24.4	8.7	1.7	0.0	0.0	0.0
82.5°	311.6	276.8	50.5	40.0	17.4	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°	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4
2.5°	6194.3	6136.8	6110.7	6199.5	6117.7	6222.1	6142.0	6176.9	6279.6	6324.8	6441.5
5°	4636.1	4576.9	4549.1	4683.1	4676.2	4742.3	4735.4	4796.3	4848.5	4731.9	4852.0
7.5°	3229.4	3189.4	3255.6	3360.0	3471.4	3434.9	3434.9	3353.0	3380.9	3363.5	3358.3
10°	2456.5	2318.9	2284.1	2280.6	2322.4	2331.1	2284.1	2171.0	2212.7	2224.9	2298.0
12.5°	1932.4	1826.2	1664.3	1591.2	1572.1	1587.7	1432.8	1333.6	1380.6	1352.7	1424.1
15°	1385.8	1298.7	1203.0	1121.2	1098.5	1067.2	898.3	779.9	766.0	771.2	783.4
17.5°	988.9	929.7	929.7	842.6	795.6	701.6	616.3	564.1	558.8	564.1	572.8
20°	729.5	698.1	694.6	672.0	619.8	557.1	497.9	487.5	484.0	492.7	496.2
22.5°	628.5	595.4	567.5	565.8	517.1	464.8	437.0	423.0	424.8	428.3	437.0
25°	562.3	527.5	497.9	480.5	445.7	409.1	383.0	376.0	376.0	381.3	383.0
27.5°	515.3	471.8	445.7	421.3	390.0	358.6	336.0	330.8	327.3	330.8	339.5
30°	482.2	438.7	405.6	369.1	344.7	315.1	296.0	289.0	287.3	289.0	296.0
32.5°	412.6	386.5	360.4	327.3	297.7	278.6	257.7	245.5	245.5	249.0	255.9
35°	311.6	297.7	296.0	287.3	262.9	242.0	217.6	205.4	205.4	212.4	215.9
37.5°	275.1	249.0	245.5	242.0	231.5	203.7	181.1	170.6	168.9	174.1	181.1
40°	250.7	221.1	205.4	201.9	203.7	172.4	148.0	137.5	137.5	139.3	146.2
42.5°	231.5	196.7	168.9	165.4	172.4	144.5	120.1	109.7	109.7	109.7	118.4
45°	215.9	175.8	142.8	125.3	135.8	118.4	97.5	87.0	83.6	87.0	90.5
47.5°	205.4	160.2	125.3	101.0	101.0	94.0	78.3	66.2	62.7	64.4	69.6
50°	196.7	146.2	106.2	81.8	73.1	74.9	59.2	50.5	47.0	47.0	52.2
52.5°	182.8	132.3	92.3	69.6	55.7	50.5	43.5	36.6	34.8	36.6	40.0
55°	165.4	120.1	80.1	57.5	43.5	34.8	31.3	26.1	24.4	26.1	31.3
57.5°	146.2	101.0	64.4	45.3	29.6	22.6	20.9	17.4	13.9	15.7	19.2
59°	134.1	90.5	55.7	36.6	22.6	15.7	15.7	12.2	8.7	10.4	15.7
60°	128.8	83.6	47.0	31.3	19.2	12.2	12.2	8.7	5.2	7.0	12.2
62.5°	109.7	69.6	36.6	19.2	8.7	1.7	5.2	1.7	0.0	1.7	5.2
65°	92.3	55.7	24.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7
67.5°	76.6	41.8	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	60.9	27.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	41.8	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	26.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.4	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: P456176  
 CATALOG NUMBER: GALN-SA7B-830-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4	7658.4
2.5°	6448.4	6697.4	6850.6	7139.6	7435.6	7663.6	7949.1	8205.0	8311.2	8367.0
5°	4973.9	5320.3	5614.5	6055.0	6464.1	6962.0	7466.9	8062.3	8290.4	8349.5
7.5°	3490.6	3844.0	4152.1	4662.2	5245.5	5912.2	6667.8	7423.4	7755.9	7849.9
10°	2520.9	2898.7	3274.7	3784.8	4329.7	5052.2	5839.1	6774.0	7157.0	7230.1
12.5°	1591.2	1996.9	2607.9	3238.1	3814.4	4395.9	5219.3	6236.0	6659.1	6793.1
15°	922.7	1225.6	1687.0	2508.7	3241.6	4011.1	4909.4	6034.1	6507.6	6645.2
17.5°	618.0	722.5	1039.3	1667.8	2635.8	3656.0	4831.1	6199.5	6723.5	6899.3
20°	520.5	567.5	679.0	1016.7	2029.9	3339.1	4852.0	6648.6	7336.3	7555.7
22.5°	457.9	501.4	572.8	731.2	1417.1	2945.7	4951.2	7291.1	8178.9	8459.2
25°	403.9	447.4	510.1	605.8	952.3	2491.3	5168.8	8231.2	9294.9	9603.0
27.5°	358.6	398.7	452.6	534.5	732.9	1984.7	5362.1	9146.9	10313.3	10564.0
30°	316.9	349.9	402.2	464.8	609.3	1530.3	5459.6	9947.7	11055.0	11333.5
32.5°	275.1	306.4	356.9	407.4	501.4	1166.4	5391.7	10536.2	11775.7	11953.3
35°	235.0	268.1	309.9	356.9	433.5	941.8	5052.2	11197.7	12522.6	12661.9
37.5°	201.9	229.8	273.3	309.9	391.7	753.8	4641.3	11793.1	13360.0	13560.2
40°	170.6	198.5	242.0	275.1	360.4	593.7	4270.5	12454.7	14242.6	14489.8
42.5°	139.3	172.4	210.7	264.6	309.9	452.6	3821.4	12990.9	14905.9	15215.8
45°	111.4	148.0	189.8	262.9	269.8	344.7	3387.9	13408.7	15492.6	15771.2
47.5°	88.8	125.3	182.8	245.5	221.1	273.3	3140.7	13845.7	15980.1	16202.9
50°	71.4	104.5	191.5	215.9	184.5	231.5	3133.7	14333.2	16232.5	16380.5
52.5°	57.5	85.3	161.9	165.4	156.7	203.7	3321.7	14881.5	16490.2	16612.0
55°	48.7	71.4	106.2	121.9	141.0	184.5	3462.7	15725.9	17104.7	17219.6
57.5°	38.3	60.9	81.8	97.5	125.3	168.9	3481.9	16377.0	17882.9	17957.8
59°	33.1	52.2	73.1	87.0	114.9	158.4	3403.5	16417.1	17933.4	18053.5
60°	27.9	47.0	64.4	81.8	106.2	149.7	3318.2	16126.3	17745.4	17879.4
62.5°	20.9	36.6	47.0	66.2	87.0	128.8	2914.3	15111.4	17026.4	17120.4
65°	13.9	26.1	34.8	48.7	67.9	111.4	2374.6	13795.2	15915.7	16126.3
67.5°	8.7	19.2	27.9	36.6	55.7	94.0	1692.2	11829.7	14361.0	14496.8
70°	5.2	12.2	20.9	29.6	43.5	74.9	1004.5	9350.6	11948.1	11975.9
72.5°	3.5	8.7	13.9	20.9	34.8	67.9	487.5	6095.0	8723.8	9056.4
75°	1.7	5.2	8.7	15.7	27.9	55.7	233.3	4072.1	6347.5	6443.2
77.5°	0.0	1.7	5.2	10.4	20.9	43.5	135.8	2674.1	4328.0	4427.2
80°	0.0	0.0	3.5	8.7	15.7	27.9	81.8	1577.3	2621.9	2670.6
82.5°	0.0	0.0	1.7	7.0	10.4	20.9	41.8	692.9	1716.6	1734.0
85°	0.0	0.0	1.7	7.0	8.7	13.9	15.7	94.0	762.5	776.5
87.5°	0.0	0.0	1.7	8.7	8.7	8.7	8.7	5.2	64.4	80.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)