

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: P648601

Luminaire Tested: **GALN-SA8B-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648601
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-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 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: 25837.4 lumens
Efficiency: N/A
Efficacy: 79.5 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

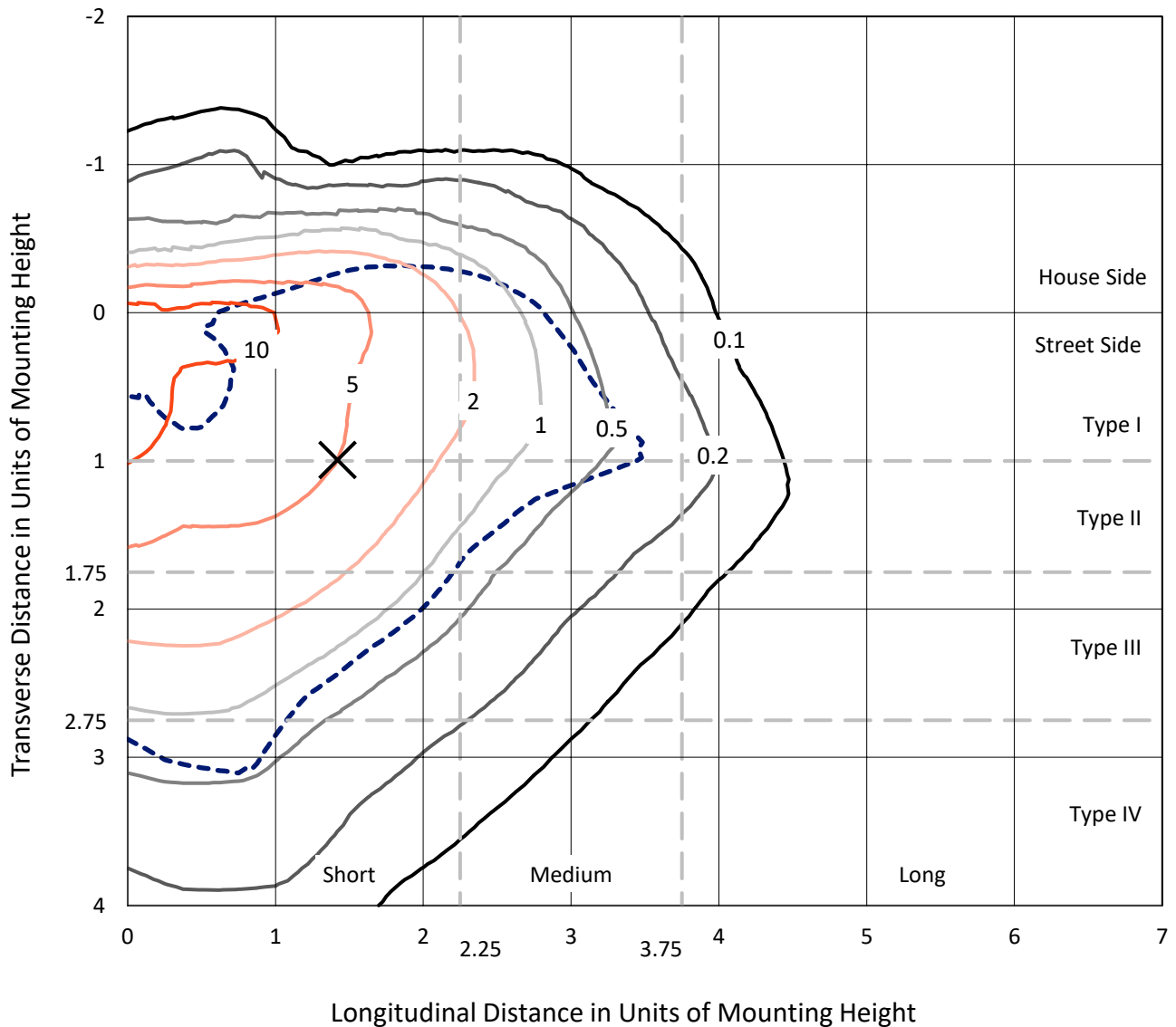
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

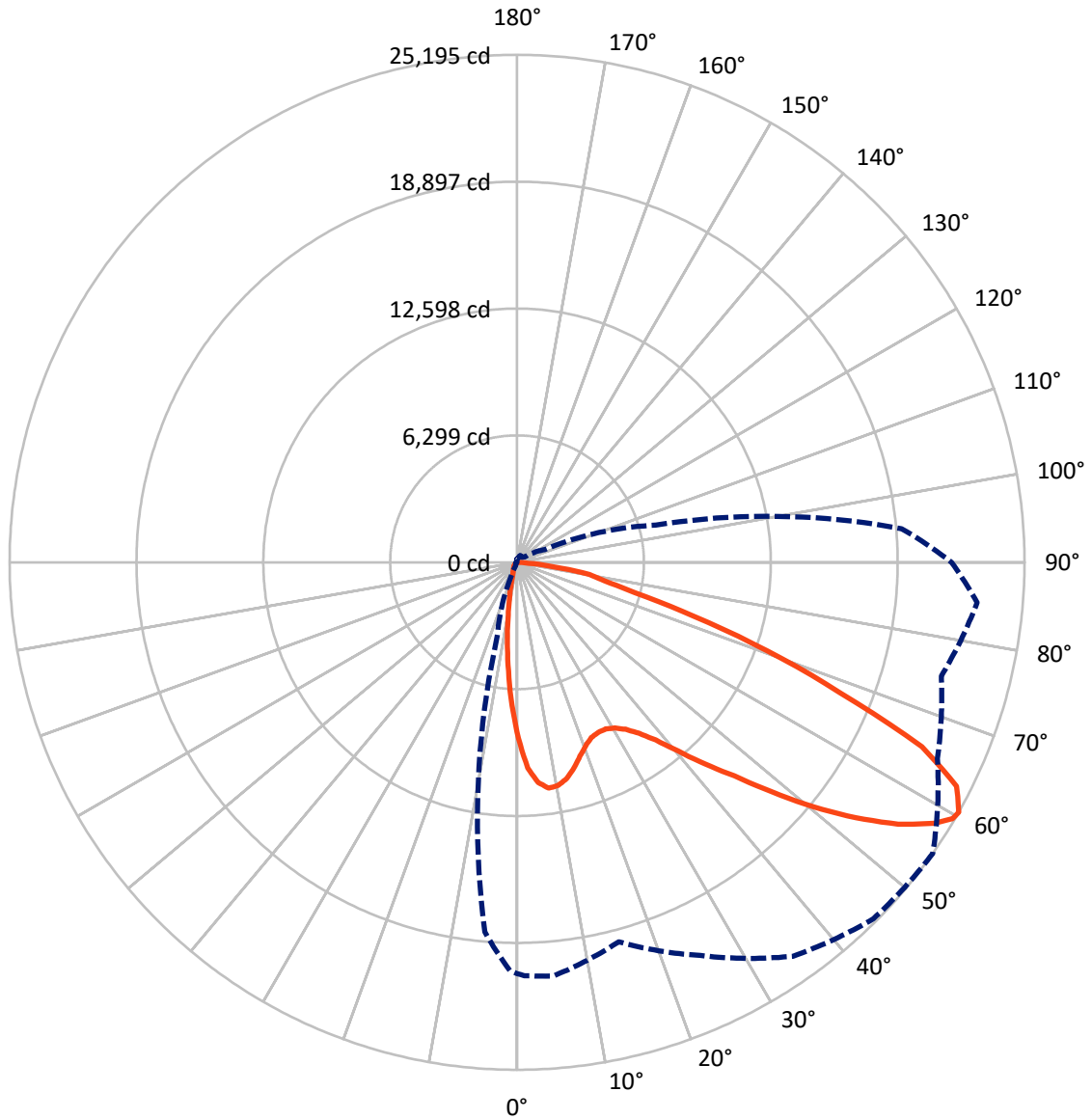
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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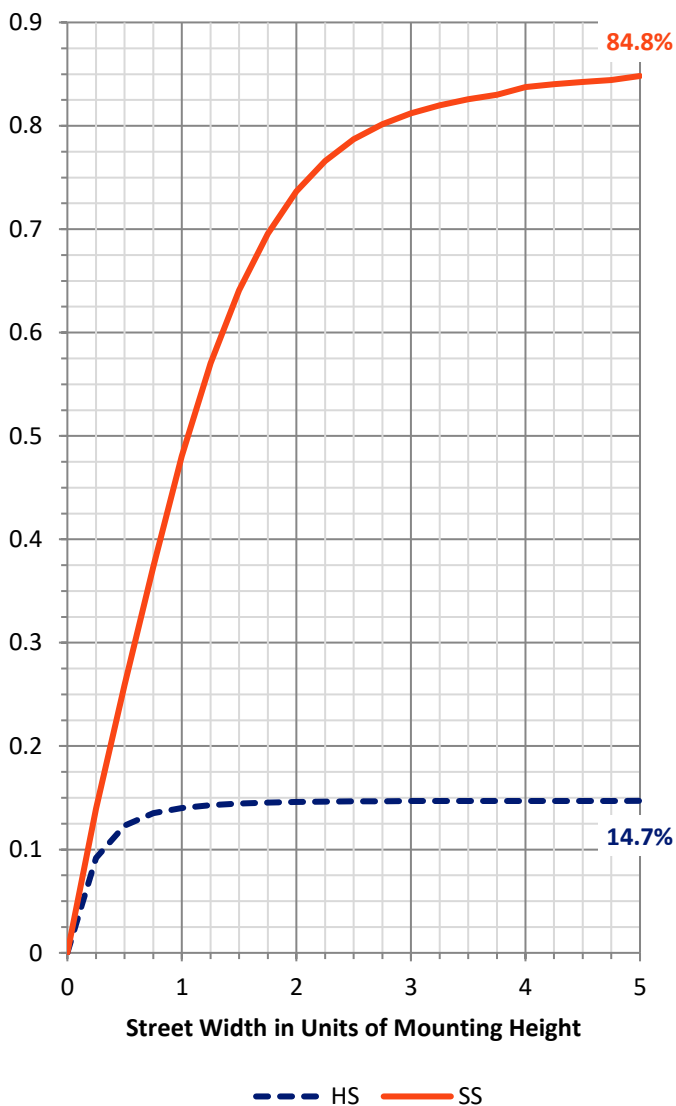
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3834.5	0.0	3834.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	22002.9	0.0	22002.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	25837.4	0.0	25837.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.8	2.5
10°-20°	1275.7	4.9
20°-30°	1888.3	7.3
30°-40°	2814.8	10.9
40°-50°	4122.2	16.0
50°-60°	5951.2	23.0
60°-70°	6260.4	24.2
70°-80°	2575.3	10.0
80°-90°	301.6	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°	25837.4	100.0
0°-180°	25837.4	100.0

Coefficient of Utilization



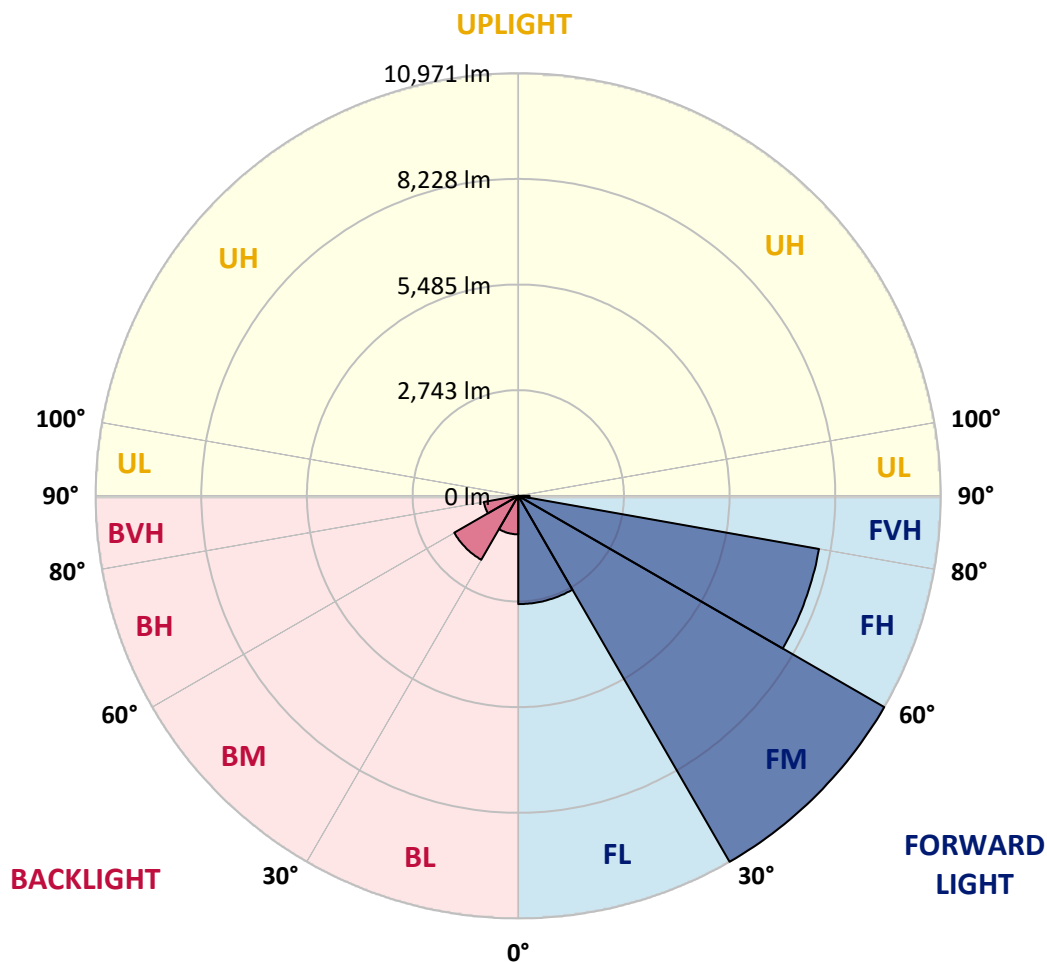
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2811.5	10.9			
FM (30°-60°)	10970.6	42.5			
FH (60°-80°)	7928.1	30.7			G4/12000
FVH (80°-90°)	292.8	1.1			G3/500
BL (0°-30°)	1000.4	3.9	B3/2500		
BM (30°-60°)	1917.6	7.4	B2/2500		
BH (60°-80°)	907.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5
2.5°	9557.9	9542.0	9683.2	9913.9	10146.6	10267.9	10244.0	10234.0	10041.2	9899.9	9603.7
5°	9538.0	9619.5	9872.1	10496.6	10969.9	11198.6	11266.2	10981.8	10606.0	10061.1	9388.9
7.5°	8967.2	9068.7	9480.3	10456.8	11298.1	11795.3	11777.3	11321.9	10546.3	9703.1	8744.5
10°	8259.2	8378.6	8861.8	10047.1	11139.0	11795.3	11831.1	11254.3	10289.8	9207.8	8199.6
12.5°	7760.1	7901.3	8436.3	9665.3	10729.3	11375.6	11417.4	10999.7	10096.9	9016.9	7903.3
15°	7591.0	7724.3	8267.2	9472.4	10293.7	10641.8	10631.8	10588.0	10021.3	9062.7	7919.2
17.5°	7881.4	7990.7	8603.3	9559.9	9886.1	9850.2	9902.0	10112.8	10037.2	9446.5	8420.3
20°	8631.2	8742.5	9400.8	9828.4	9573.8	9347.1	9370.9	9723.0	10184.3	10168.4	9203.9
22.5°	9663.3	9852.3	10448.8	10349.5	9532.1	9034.9	8985.2	9442.6	10435.0	10999.7	10261.9
25°	10969.9	11160.8	11626.2	11180.7	9736.9	8961.3	8915.6	9357.0	10739.2	11811.2	11453.2
27.5°	12067.7	12212.8	12676.2	11990.2	10039.2	8993.1	8917.5	9369.0	10985.8	12501.2	12457.5
30°	12946.7	13054.1	13326.6	12368.0	10299.7	9132.3	9044.8	9544.0	11095.2	12837.4	13270.9
32.5°	13654.7	13835.7	13921.2	12771.7	10673.6	9394.8	9245.7	9880.1	11361.7	13253.0	14124.1
35°	14464.1	14673.0	14563.6	13157.5	11166.8	9804.5	9621.5	10425.0	11765.4	13636.8	15114.5
37.5°	15490.3	15730.9	15303.4	13563.2	11687.8	10421.0	10335.5	11190.6	12378.0	14185.7	16176.5
40°	16552.3	16691.5	16021.4	14056.4	12328.3	11318.0	11399.5	12328.3	13179.4	14844.0	17306.0
42.5°	17381.6	17512.9	16759.2	14470.1	12982.5	12381.9	12722.0	13700.5	14098.2	15518.2	18149.3
45°	18016.0	18127.4	17270.2	14921.6	13865.5	13923.2	14565.5	15114.5	15019.0	15929.8	18799.6
47.5°	18509.3	18604.7	17664.0	15406.8	15188.0	15808.5	16791.0	17023.7	15973.6	16375.3	19388.3
50°	18712.1	18739.9	17787.3	16025.3	16689.6	18210.9	19235.1	19093.9	17067.4	16870.5	20014.7
52.5°	18976.6	18970.6	18139.4	16613.9	18101.6	20358.8	21381.0	21060.8	18304.4	17612.3	20718.7
55°	19670.7	19678.6	18893.1	17449.2	19304.7	22093.0	23186.7	22954.1	19609.0	18865.2	21540.1
57.5°	20513.9	20543.7	19965.0	18425.7	20454.2	23349.8	24535.1	24445.7	21373.0	20259.3	22315.7
59°	20623.3	20682.9	20472.2	19113.8	21136.4	23735.6	24996.5	25084.0	22317.7	21178.1	22735.3
60°	20424.4	20523.8	20619.3	19503.6	21536.1	23874.8	25024.4	25195.4	23027.6	21802.6	22926.2
62.5°	19557.3	19714.5	20193.7	20702.8	22035.3	23441.3	24135.4	24493.3	23906.7	23443.3	22944.2
65°	18421.7	18503.3	19195.3	20915.7	21066.8	21416.8	21631.5	22090.9	22850.7	24075.8	22122.8
67.5°	16560.3	16800.9	17648.1	19680.6	18208.9	17795.2	17741.6	17284.2	19257.0	22568.3	20098.3
70°	13680.6	13787.9	14832.1	16134.7	13742.2	13105.9	13360.4	13189.3	14927.5	19428.0	16176.5
72.5°	10345.5	10588.0	11608.3	12861.2	9351.1	8525.8	9227.7	9164.2	11212.6	15613.6	11113.1
75°	7360.4	7517.4	8818.1	10065.0	6548.9	5548.6	5801.2	6037.8	7827.7	12328.3	6566.9
77.5°	5057.4	5192.6	6169.1	6656.4	4776.9	4576.1	4186.3	4415.0	5129.0	7314.6	3573.8
80°	3050.7	3044.8	3687.1	3806.5	3327.2	3864.1	3241.6	3639.4	3100.4	3130.3	1384.2
82.5°	1980.8	1960.9	2255.2	2458.1	1851.5	1947.0	1306.6	1883.3	2020.5	873.0	437.5
85°	887.0	924.8	1083.8	1429.9	811.4	431.6	266.5	578.7	861.1	439.5	0.0
87.5°	91.5	71.6	190.9	348.0	111.3	11.9	39.8	19.9	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°	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5
2.5°	9466.4	9351.1	9007.0	8684.9	8408.4	8070.3	7851.5	7507.5	7298.7	7235.1	7245.0
5°	9086.6	8754.5	8100.1	7577.1	6994.4	6662.3	6157.1	5671.9	5409.4	5312.0	5268.2
7.5°	8291.1	7935.1	7145.6	6324.2	5699.8	5117.1	4741.1	4313.5	4021.3	3780.6	3738.8
10°	7700.4	7233.0	6254.6	5371.6	4878.4	4440.9	4065.0	3637.4	3293.4	3018.9	2943.4
12.5°	7346.4	6823.4	5731.6	4991.8	4524.4	4075.0	3585.7	3090.5	2738.5	2442.2	2304.9
15°	7282.8	6676.2	5584.4	4719.3	4142.5	3599.6	2949.3	2414.3	2052.4	1772.0	1686.4
17.5°	7666.6	6940.7	5562.5	4434.9	3643.4	2873.8	2197.6	1754.1	1346.4	1189.3	1127.6
20°	8350.8	7408.0	5560.6	4104.8	3130.3	2213.5	1543.3	1143.5	978.4	902.9	867.1
22.5°	9283.5	8044.5	5665.9	3820.4	2597.3	1632.8	1101.8	910.9	815.4	753.7	739.8
25°	10423.0	8987.1	5924.5	3627.5	2189.6	1280.8	908.8	779.6	700.0	672.2	660.2
27.5°	11435.2	9890.0	6208.9	3428.6	1897.3	1133.5	843.2	713.9	650.3	628.4	610.6
30°	12308.4	10709.4	6346.1	3166.1	1662.6	1038.1	855.2	763.7	680.1	614.5	584.7
32.5°	13036.2	11337.8	6435.6	2927.4	1463.7	849.2	676.2	590.7	552.9	529.0	509.1
35°	13947.0	12018.0	6381.8	2792.2	1362.3	773.6	616.5	509.1	445.4	397.8	377.9
37.5°	14901.7	12698.1	6288.4	2680.8	1316.5	717.9	586.7	483.3	413.7	363.9	338.1
40°	15890.0	13328.5	6179.0	2577.4	1274.8	682.1	568.8	461.4	391.8	338.1	310.2
42.5°	16795.0	13943.1	6135.3	2509.8	1207.2	688.1	554.8	451.5	369.9	314.2	290.3
45°	17526.8	14525.7	6194.9	2474.0	1133.5	678.2	558.8	439.5	352.0	298.3	274.4
47.5°	18308.3	15349.1	6387.9	2438.2	1062.0	630.4	588.7	437.5	344.1	288.4	262.5
50°	19217.2	16403.1	6829.3	2350.7	974.5	578.7	626.5	435.5	334.1	276.4	250.6
52.5°	20428.4	17600.4	7284.8	2197.6	847.2	529.0	598.6	429.6	314.2	262.5	236.6
55°	21516.2	18861.2	7670.6	2016.6	686.1	457.4	538.9	403.7	280.4	238.7	214.8
57.5°	21965.7	19573.2	7658.7	1766.0	548.9	401.8	443.5	369.9	244.6	210.8	190.9
59°	21800.6	19483.7	7402.1	1581.0	501.2	371.9	367.9	365.9	228.7	190.9	175.0
60°	21567.9	19157.6	7125.7	1489.6	471.4	352.0	338.1	362.0	214.8	179.0	163.1
62.5°	20677.0	17805.2	6208.9	1334.5	431.6	298.3	270.4	306.2	190.9	155.1	141.2
65°	19386.3	15726.9	5256.3	1290.7	419.6	246.6	224.7	218.8	163.1	131.2	119.3
67.5°	16868.6	13308.7	4257.9	1260.9	423.6	206.8	196.9	165.1	135.2	109.4	101.4
70°	13505.6	10377.3	3486.2	1227.0	427.6	169.0	165.1	131.2	109.4	91.5	83.5
72.5°	8205.5	6151.2	2744.5	1066.0	415.6	135.2	147.2	99.4	79.6	65.6	61.6
75°	5073.3	4210.2	1702.4	829.3	274.4	99.4	103.4	61.6	53.7	41.7	41.7
77.5°	2939.4	2658.9	608.5	298.3	121.3	59.7	45.7	31.8	29.8	17.9	17.9
80°	1219.1	976.5	210.8	101.4	65.6	27.9	9.9	2.0	0.0	0.0	0.0
82.5°	356.0	316.2	57.7	45.7	19.9	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°	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5
2.5°	7076.0	7010.4	6980.5	7081.9	6988.4	7107.8	7016.3	7056.1	7173.4	7225.1	7358.3
5°	5296.1	5228.4	5196.6	5349.7	5341.8	5417.3	5409.4	5479.0	5538.6	5405.4	5542.6
7.5°	3689.1	3643.4	3718.9	3838.3	3965.6	3923.8	3923.8	3830.4	3862.1	3842.3	3836.3
10°	2806.1	2649.0	2609.3	2605.3	2653.0	2662.9	2609.3	2480.0	2527.7	2541.6	2625.2
12.5°	2207.5	2086.2	1901.2	1817.7	1795.8	1813.7	1636.7	1523.4	1577.0	1545.3	1626.8
15°	1583.1	1483.6	1374.2	1280.8	1254.9	1219.1	1026.2	891.0	875.1	881.0	895.0
17.5°	1129.6	1062.0	1062.0	962.5	908.8	801.5	704.0	644.3	638.4	644.3	654.3
20°	833.3	797.5	793.5	767.7	708.0	636.4	568.8	556.9	552.9	562.8	566.8
22.5°	717.9	680.1	648.3	646.4	590.7	531.0	499.2	483.3	485.2	489.2	499.2
25°	642.4	602.6	568.8	548.9	509.1	467.4	437.5	429.6	429.6	435.5	437.5
27.5°	588.7	538.9	509.1	481.3	445.4	409.7	383.8	377.9	373.9	377.9	387.8
30°	550.9	501.2	463.4	421.6	393.8	359.9	338.1	330.1	328.2	330.1	338.1
32.5°	471.4	441.5	411.7	373.9	340.1	318.2	294.3	280.4	280.4	284.4	292.4
35°	356.0	340.1	338.1	328.2	300.3	276.4	248.6	234.7	234.7	242.7	246.6
37.5°	314.2	284.4	280.4	276.4	264.5	232.7	206.8	194.9	192.9	198.9	206.8
40°	286.3	252.6	234.7	230.7	232.7	196.9	169.0	157.1	157.1	159.1	167.1
42.5°	264.5	224.7	192.9	188.9	196.9	165.1	137.3	125.3	125.3	125.3	135.2
45°	246.6	200.8	163.1	143.2	155.1	135.2	111.3	99.4	95.4	99.4	103.4
47.5°	234.7	183.0	143.2	115.3	115.3	107.4	89.5	75.6	71.6	73.6	79.6
50°	224.7	167.1	121.3	93.5	83.5	85.5	67.7	57.7	53.7	53.7	59.7
52.5°	208.8	151.1	105.4	79.6	63.7	57.7	49.7	41.7	39.8	41.7	45.7
55°	188.9	137.3	91.5	65.6	49.7	39.8	35.8	29.8	27.9	29.8	35.8
57.5°	167.1	115.3	73.6	51.7	33.8	25.8	23.9	19.9	15.9	17.9	21.8
59°	153.2	103.4	63.7	41.7	25.8	17.9	17.9	13.9	9.9	11.9	17.9
60°	147.2	95.4	53.7	35.8	21.8	13.9	13.9	9.9	6.0	8.0	13.9
62.5°	125.3	79.6	41.7	21.8	9.9	2.0	6.0	2.0	0.0	2.0	6.0
65°	105.4	63.7	27.9	9.9	0.0	0.0	0.0	0.0	0.0	0.0	2.0
67.5°	87.5	47.8	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	69.6	31.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	47.8	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.9	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: P648601

CATALOG NUMBER: GALN-SA8B-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5	8748.5
2.5°	7366.3	7650.7	7825.7	8155.8	8493.9	8754.5	9080.6	9373.0	9494.3	9557.9
5°	5681.8	6077.6	6413.7	6916.9	7384.2	7953.0	8529.7	9209.9	9470.4	9538.0
7.5°	3987.4	4391.1	4743.2	5325.9	5992.1	6753.8	7616.9	8480.0	8859.9	8967.2
10°	2879.7	3311.2	3740.9	4323.5	4946.0	5771.3	6670.2	7738.2	8175.7	8259.2
12.5°	1817.7	2281.1	2979.2	3699.0	4357.3	5021.6	5962.2	7123.7	7606.9	7760.1
15°	1054.0	1400.1	1927.1	2865.8	3703.0	4582.0	5608.2	6893.0	7434.0	7591.0
17.5°	706.0	825.4	1187.3	1905.2	3010.9	4176.4	5518.7	7081.9	7680.5	7881.4
20°	594.6	648.3	775.6	1161.4	2318.9	3814.4	5542.6	7595.0	8380.5	8631.2
22.5°	523.0	572.8	654.3	835.3	1618.9	3364.9	5656.0	8328.8	9343.1	9663.3
25°	461.4	511.1	582.7	692.1	1087.8	2845.9	5904.6	9402.8	10617.9	10969.9
27.5°	409.7	455.4	517.1	610.6	837.3	2267.2	6125.3	10448.8	11781.3	12067.7
30°	362.0	399.7	459.4	531.0	696.1	1748.1	6236.7	11363.7	12628.5	12946.7
32.5°	314.2	350.0	407.7	465.3	572.8	1332.4	6159.2	12035.9	13451.9	13654.7
35°	268.5	306.2	354.0	407.7	495.2	1075.9	5771.3	12791.6	14305.0	14464.1
37.5°	230.7	262.5	312.3	354.0	447.5	861.1	5302.0	13471.7	15261.6	15490.3
40°	194.9	226.7	276.4	314.2	411.7	678.2	4878.4	14227.5	16269.9	16552.3
42.5°	159.1	196.9	240.6	302.3	354.0	517.1	4365.3	14840.0	17027.6	17381.6
45°	127.3	169.0	216.7	300.3	308.3	393.8	3870.1	15317.3	17697.8	18016.0
47.5°	101.4	143.2	208.8	280.4	252.6	312.3	3587.7	15816.4	18254.7	18509.3
50°	81.5	119.3	218.8	246.6	210.8	264.5	3579.7	16373.3	18543.1	18712.1
52.5°	65.6	97.5	184.9	188.9	179.0	232.7	3794.5	16999.8	18837.4	18976.6
55°	55.7	81.5	121.3	139.2	161.1	210.8	3955.6	17964.3	19539.4	19670.7
57.5°	43.8	69.6	93.5	111.3	143.2	192.9	3977.5	18708.1	20428.4	20513.9
59°	37.8	59.7	83.5	99.4	131.2	181.0	3888.0	18753.9	20486.0	20623.3
60°	31.8	53.7	73.6	93.5	121.3	171.0	3790.6	18421.7	20271.2	20424.4
62.5°	23.9	41.7	53.7	75.6	99.4	147.2	3329.2	17262.3	19449.9	19557.3
65°	15.9	29.8	39.8	55.7	77.6	127.3	2712.6	15758.8	18181.1	18421.7
67.5°	9.9	21.8	31.8	41.7	63.7	107.4	1933.1	13513.5	16405.2	16560.3
70°	6.0	13.9	23.9	33.8	49.7	85.5	1147.5	10681.5	13648.8	13680.6
72.5°	4.0	9.9	15.9	23.9	39.8	77.6	556.9	6962.6	9965.6	10345.5
75°	2.0	6.0	9.9	17.9	31.8	63.7	266.5	4651.6	7251.0	7360.4
77.5°	0.0	2.0	6.0	11.9	23.9	49.7	155.1	3054.7	4944.0	5057.4
80°	0.0	0.0	4.0	9.9	17.9	31.8	93.5	1801.8	2995.1	3050.7
82.5°	0.0	0.0	2.0	8.0	11.9	23.9	47.8	791.5	1960.9	1980.8
85°	0.0	0.0	2.0	8.0	9.9	15.9	17.9	107.4	871.1	887.0
87.5°	0.0	0.0	2.0	9.9	9.9	9.9	9.9	6.0	73.6	91.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)