

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: P457089

Luminaire Tested: **GALN-SA8B-827-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457089  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33703 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

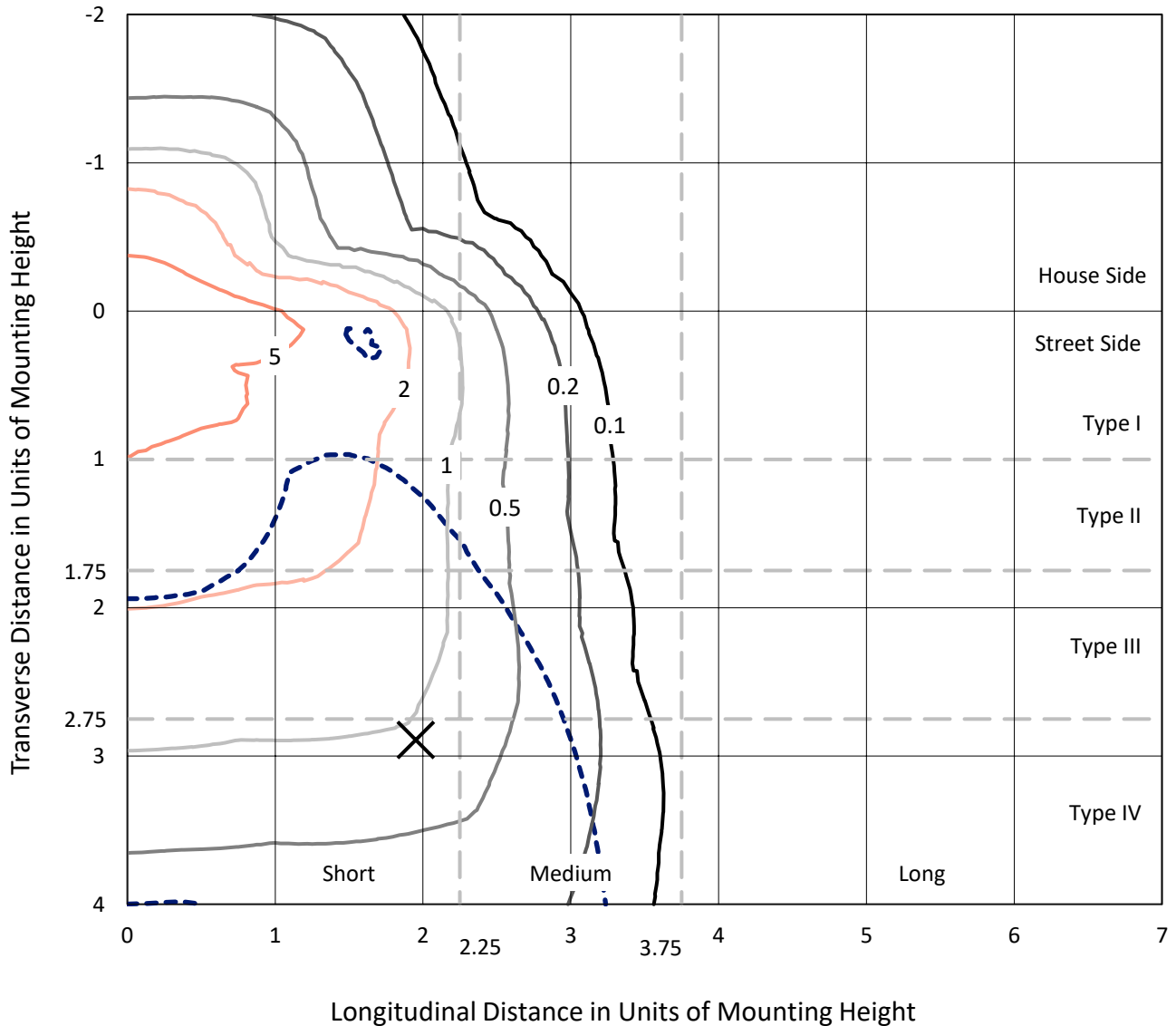
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457089  
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### Iso-Footcandle Lines of Horizontal Illumination

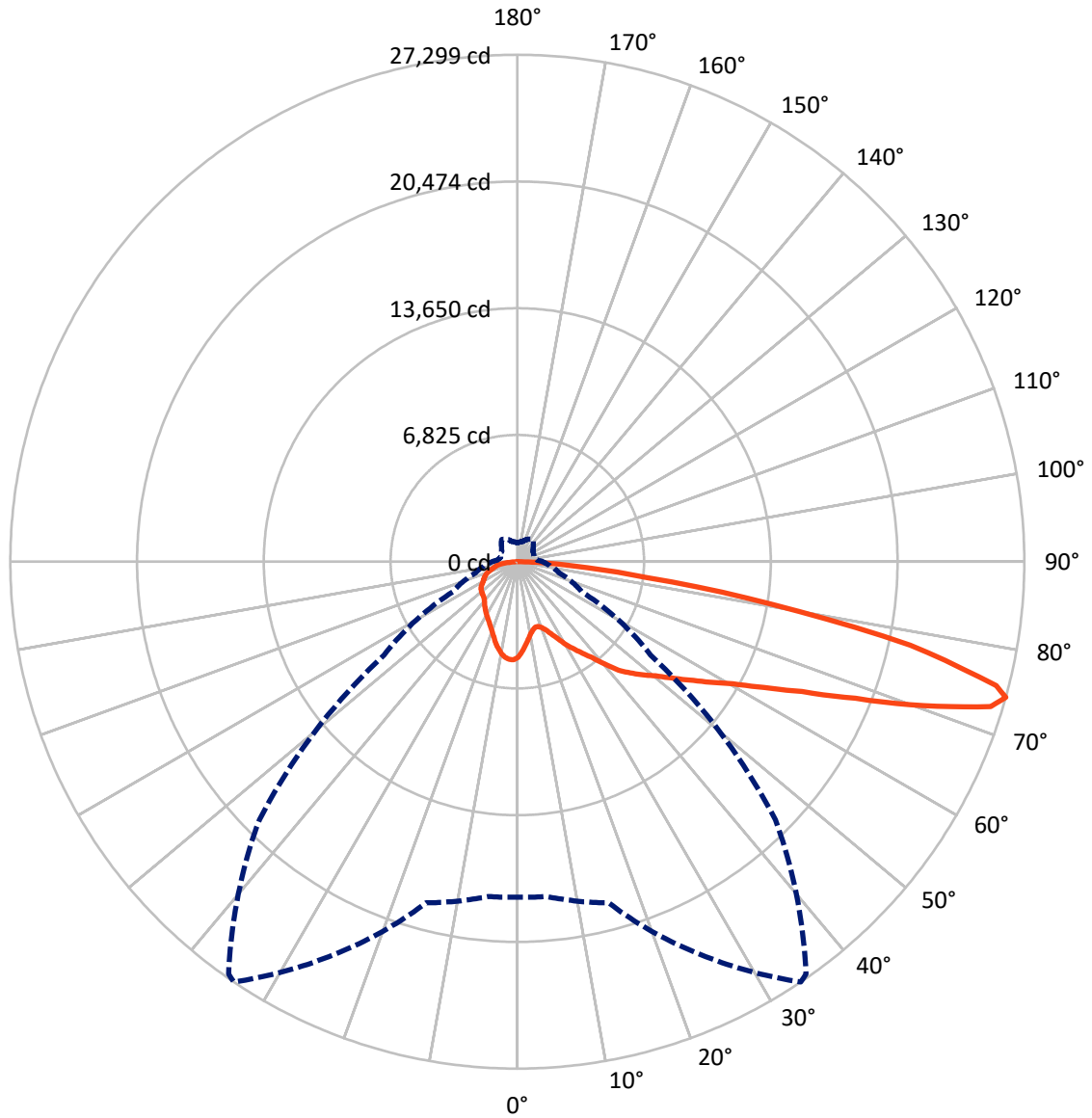
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P457089  
CATALOG NUMBER: GALN-SA8B-827-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P457089

CATALOG NUMBER: GALN-SA8B-827-U-T4FT

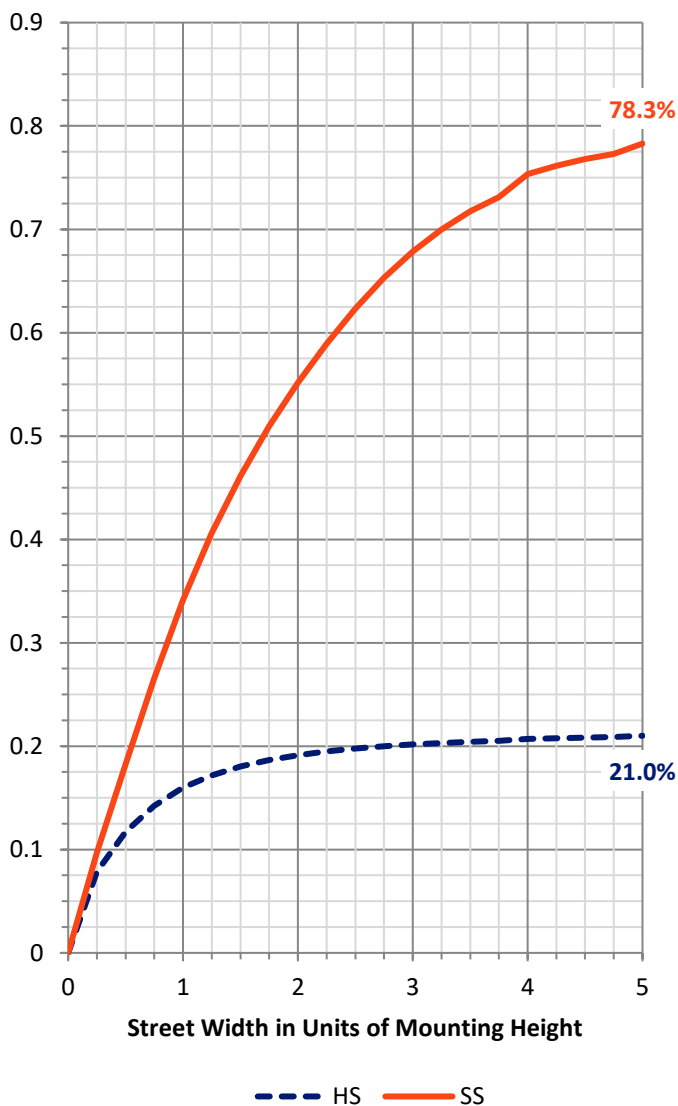
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7172.2	0.0	7172.2
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	26530.8	0.0	26530.8
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	33703.0	0.0	33703.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	468.0	1.4
10°-20°	1281.1	3.8
20°-30°	2112.2	6.3
30°-40°	3163.8	9.4
40°-50°	4599.3	13.6
50°-60°	6424.2	19.1
60°-70°	8042.7	23.9
70°-80°	6650.7	19.7
80°-90°	961.0	2.9
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°	33703.0	100.0
0°-180°	33703.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P457089

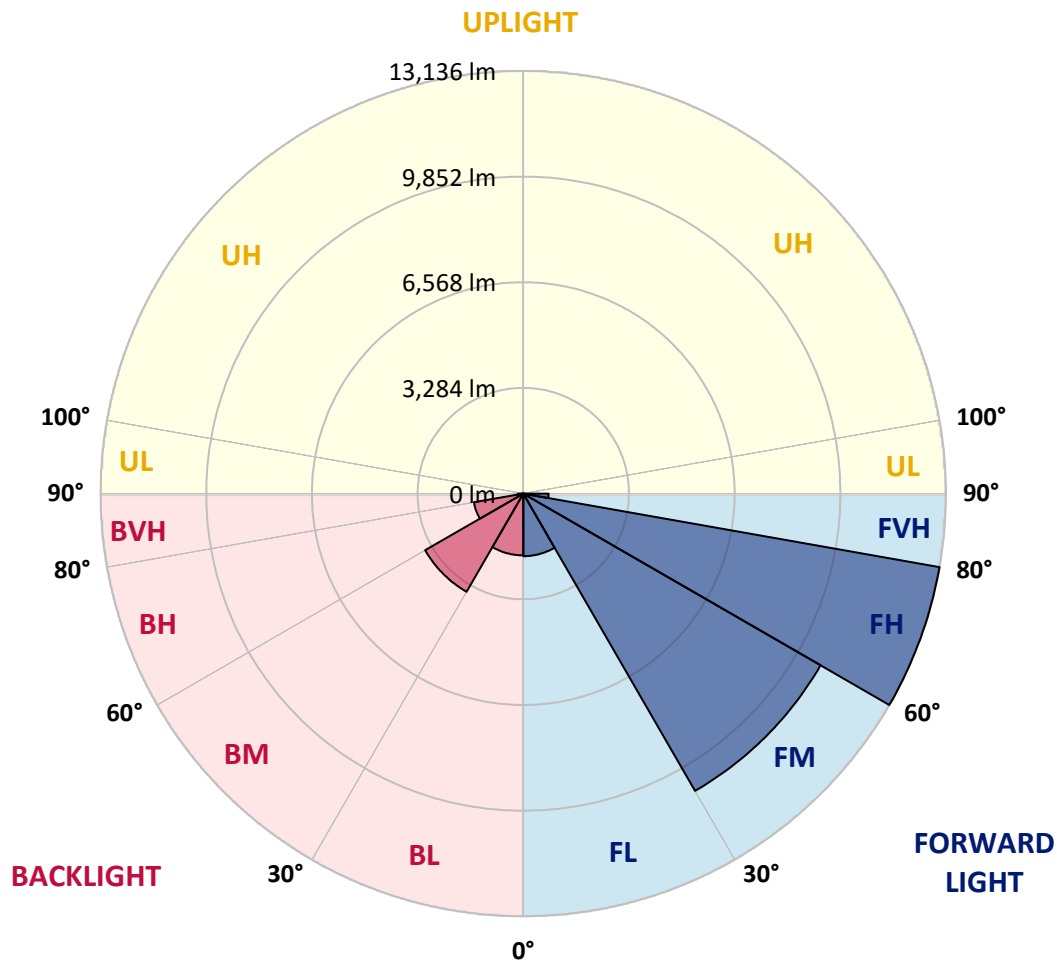
CATALOG NUMBER: GALN-SA8B-827-U-T4FT

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1942.8	5.8			
FM	(30°-60°)	10665.0	31.6			
FH	(60°-80°)	13135.7	39.0			G5
FVH	(80°-90°)	787.3	2.3			G5
BL	(0°-30°)	1918.5	5.7	B3/2500		
BM	(30°-60°)	3522.3	10.5	B3/5000		
BH	(60°-80°)	1557.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	173.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5145.8	5145.8	5145.8	5145.8	5145.8	5145.8	5145.8	5145.8	5145.8	5145.8	5145.8
2.5°	4755.6	4779.8	4792.9	4839.6	4850.8	4865.7	4904.9	4957.2	5024.4	5084.2	5136.4
5°	4359.7	4397.1	4419.5	4460.5	4540.8	4548.3	4652.9	4772.4	4908.7	5035.6	5140.2
7.5°	3984.4	4025.5	4044.2	4118.9	4225.3	4242.1	4395.2	4583.8	4811.6	5003.9	5164.5
10°	3702.5	3723.0	3764.1	3820.1	3947.1	3958.3	4158.1	4410.1	4705.1	4988.9	5205.5
12.5°	3549.4	3560.6	3569.9	3629.7	3754.8	3771.6	3980.7	4266.4	4621.1	5000.1	5272.7
15°	3571.8	3575.5	3534.5	3545.7	3646.5	3670.8	3878.0	4171.1	4568.8	5028.2	5373.6
17.5°	3760.4	3747.3	3646.5	3594.2	3665.2	3676.4	3857.5	4133.8	4544.6	5080.4	5478.1
20°	4057.3	4038.6	3864.9	3749.2	3790.3	3799.6	3924.7	4161.8	4568.8	5166.3	5640.6
22.5°	4426.9	4419.5	4156.2	4016.2	4014.3	4014.3	4079.7	4262.6	4641.7	5283.9	5810.5
25°	4944.1	4904.9	4561.4	4380.3	4329.9	4326.1	4318.6	4428.8	4735.0	5409.0	6012.1
27.5°	5474.4	5407.2	5101.0	4822.8	4714.5	4701.4	4652.9	4664.1	4854.5	5550.9	6241.8
30°	5950.5	5907.6	5620.0	5312.0	5183.1	5153.3	5018.8	4957.2	5054.3	5806.7	6607.7
32.5°	6314.6	6288.5	6064.4	5784.3	5593.9	5588.3	5392.2	5341.8	5366.1	6116.7	7026.0
35°	6609.6	6618.9	6505.0	6262.3	6043.9	6012.1	5881.4	5817.9	5747.0	6564.8	7552.5
37.5°	7012.9	7033.4	7026.0	6816.9	6549.9	6557.3	6527.5	6422.9	6234.3	7065.2	8136.9
40°	7457.3	7472.2	7470.3	7390.1	7250.0	7257.5	7246.3	7126.8	6844.9	7701.9	8786.7
42.5°	8071.6	8000.6	7815.8	7896.0	7978.2	8013.7	8090.2	7976.3	7589.8	8381.5	9397.2
45°	8758.7	8624.2	8206.0	8243.3	8547.7	8614.9	9036.9	8880.0	8398.3	9162.0	10116.1
47.5°	9191.8	9059.3	8706.4	8698.9	9102.2	9167.6	9914.4	9856.5	9133.9	10004.0	10993.6
50°	9578.3	9559.7	9162.0	9257.2	9651.1	9748.2	10870.4	10816.2	9867.7	10997.3	11949.6
52.5°	10151.5	10000.3	9682.9	9878.9	10399.9	10526.8	11818.9	11660.2	10541.8	11874.9	12877.5
55°	10409.2	10373.7	10355.0	10525.0	11240.1	11331.5	12741.2	12377.1	11116.8	12618.0	13583.3
57.5°	11098.2	11032.8	11217.7	11333.4	12229.6	12369.7	13704.7	13125.9	11621.0	13208.0	13926.8
60°	11990.6	11955.2	12125.1	12334.2	13335.0	13547.8	14802.5	13764.4	12026.1	13504.9	13738.3
62.5°	13323.8	13320.0	13288.3	13736.4	14901.5	15097.5	16062.8	14386.2	12089.6	13282.7	12763.6
65°	15235.7	15168.5	14892.1	15381.3	16850.8	17080.4	17375.4	14733.4	11706.8	12141.9	10747.1
67.5°	17235.4	17231.6	17007.6	17642.4	19649.6	19886.7	19016.6	14656.9	10644.4	9836.0	7632.8
70°	18893.4	18813.1	19098.8	20790.4	23225.1	23499.6	20452.4	13755.1	8478.6	6495.7	4535.2
72.5°	19291.1	19294.8	19888.6	23217.6	26658.7	26701.7	20969.6	11148.6	5674.2	3583.0	2268.6
74°	18066.2	18098.0	19018.5	23339.0	27299.2	27105.0	19647.7	8762.4	3836.9	2339.5	1635.6
75°	16490.4	16290.6	17621.9	22530.5	26634.5	26425.3	18099.9	7031.6	2927.6	1869.0	1432.1
77.5°	8816.5	9020.1	11073.9	16813.4	21638.0	21397.2	12272.6	3372.0	1581.5	1301.4	1030.7
80°	3138.6	3461.6	4865.7	8797.9	13872.7	13947.4	5857.2	1546.0	1112.8	959.7	728.2
82.5°	1280.8	1316.3	2089.3	3904.1	7044.6	7111.9	2391.8	918.6	795.4	661.0	435.0
85°	500.4	515.3	924.2	1755.1	3006.1	3202.1	827.1	485.5	489.2	379.0	222.2
87.5°	168.0	190.4	379.0	584.4	1021.3	1000.8	240.9	143.8	175.5	164.3	69.1
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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 CATALOG NUMBER: GALN-SA8B-827-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5145.8	5145.8	5145.8	5145.8	5145.8	5145.8	5145.8	5145.8	5145.8	5145.8	5145.8
2.5°	5162.6	5198.1	5222.3	5248.5	5272.7	5280.2	5274.6	5291.4	5293.3	5295.2	5297.0
5°	5192.5	5241.0	5287.7	5313.8	5325.0	5315.7	5283.9	5267.1	5252.2	5241.0	5244.7
7.5°	5233.5	5302.6	5345.6	5356.8	5326.9	5283.9	5205.5	5143.9	5104.7	5078.6	5076.7
10°	5297.0	5364.2	5399.7	5368.0	5285.8	5181.3	5058.0	4942.3	4854.5	4828.4	4826.5
12.5°	5377.3	5453.9	5452.0	5358.6	5214.9	5028.2	4828.4	4693.9	4574.4	4514.7	4539.0
15°	5481.9	5539.7	5485.6	5317.6	5089.8	4834.0	4587.5	4404.5	4270.1	4206.6	4210.4
17.5°	5603.2	5653.6	5509.9	5244.7	4914.3	4585.6	4300.0	4126.3	4019.9	3973.2	3969.5
20°	5754.5	5769.4	5509.9	5117.8	4688.3	4296.2	4023.6	3902.3	3842.5	3818.3	3825.7
22.5°	5916.9	5887.0	5480.0	4938.5	4391.5	3993.8	3810.8	3756.6	3726.8	3723.0	3726.8
25°	6099.9	6015.9	5418.4	4695.8	4081.5	3732.4	3625.9	3635.3	3640.9	3640.9	3654.0
27.5°	6323.9	6155.9	5315.7	4389.6	3719.3	3489.6	3459.8	3525.1	3555.0	3560.6	3569.9
30°	6618.9	6309.0	5145.8	4006.8	3411.2	3271.2	3323.5	3411.2	3444.8	3465.4	3461.6
32.5°	6970.0	6477.0	4916.1	3624.1	3162.9	3118.1	3181.6	3271.2	3308.5	3319.7	3304.8
35°	7382.6	6667.5	4613.7	3265.6	2946.3	2972.5	3047.1	3075.1	3108.8	3108.8	3116.2
37.5°	7827.0	6820.6	4244.0	2937.0	2778.3	2873.5	2927.6	2901.5	2886.6	2867.9	2877.2
40°	8278.8	6934.5	3764.1	2612.1	2610.2	2770.8	2785.7	2711.1	2651.3	2632.6	2623.3
42.5°	8672.8	7005.4	3330.9	2360.0	2451.5	2670.0	2681.2	2561.7	2466.5	2410.5	2391.8
45°	9137.7	7087.6	2907.1	2150.9	2304.0	2589.7	2617.7	2457.1	2317.1	2199.5	2169.6
47.5°	9774.4	7274.3	2572.9	1988.5	2197.6	2539.3	2578.5	2371.2	2186.4	2033.3	2009.0
50°	10493.2	7530.1	2313.4	1878.3	2115.4	2494.5	2543.0	2283.5	2065.0	1895.1	1876.5
52.5°	11152.3	7668.3	2089.3	1779.4	2035.2	2412.3	2496.3	2220.0	1945.5	1757.0	1740.2
55°	11512.7	7444.2	1869.0	1682.3	1925.0	2305.9	2431.0	2132.3	1829.8	1684.1	1659.9
57.5°	11561.2	6981.2	1669.2	1577.7	1809.2	2175.2	2309.6	2025.8	1755.1	1633.7	1613.2
60°	11185.9	6290.3	1514.2	1491.8	1691.6	2027.7	2173.3	1932.5	1678.5	1577.7	1557.2
62.5°	10252.4	5539.7	1405.9	1413.4	1572.1	1872.7	2072.5	1842.8	1605.7	1516.1	1497.4
65°	8646.6	4572.6	1301.4	1333.1	1465.7	1751.4	1981.0	1768.2	1532.9	1469.4	1452.6
67.5°	6006.5	3301.1	1215.5	1249.1	1364.9	1628.1	1874.6	1687.9	1450.8	1417.1	1391.0
70°	3325.3	2031.4	1114.7	1153.9	1260.3	1490.0	1755.1	1566.5	1331.3	1316.3	1279.0
72.5°	1747.6	1293.9	1000.8	1043.7	1118.4	1312.6	1572.1	1433.9	1213.6	1150.1	1101.6
74°	1364.9	1060.5	924.2	969.0	1019.4	1208.0	1463.8	1338.7	1129.6	1054.9	1017.6
75°	1189.4	944.8	858.9	916.8	961.6	1137.1	1379.8	1271.5	1082.9	1012.0	978.4
77.5°	840.2	707.6	702.0	771.1	795.4	997.0	1243.5	1157.6	965.3	890.6	858.9
80°	590.0	530.3	556.4	599.3	633.0	881.3	1153.9	1000.8	791.7	703.9	692.7
82.5°	384.6	347.3	397.7	436.9	448.1	649.8	931.7	759.9	576.9	468.6	435.0
85°	177.4	173.6	227.8	222.2	220.3	317.4	552.7	444.4	332.3	248.3	233.4
87.5°	44.8	42.9	56.0	46.7	56.0	48.5	50.4	13.1	1.9	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

(END OF REPORT)