

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: P452535

Luminaire Tested: **GALN-SA3C-727-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-727-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12639 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

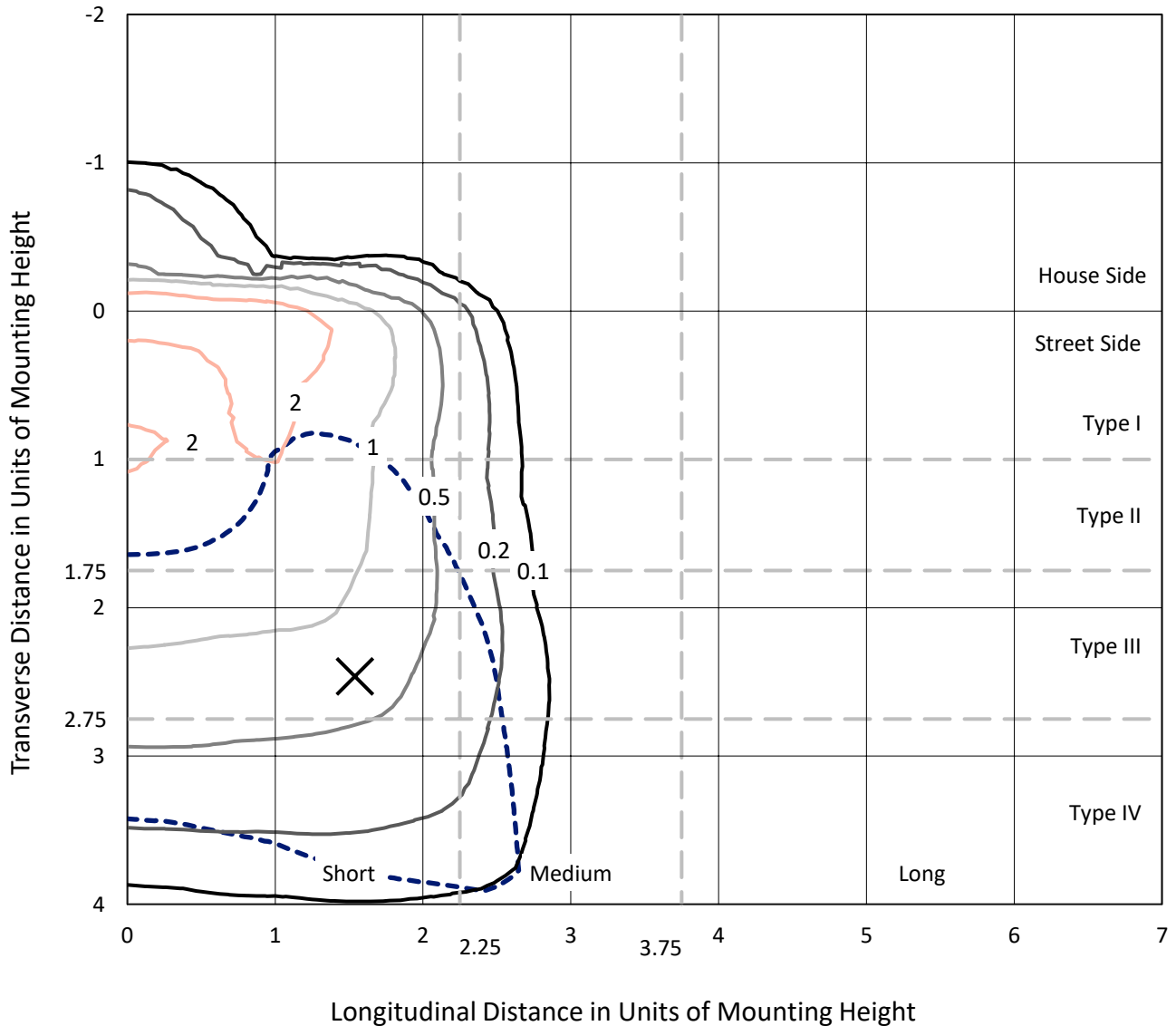
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

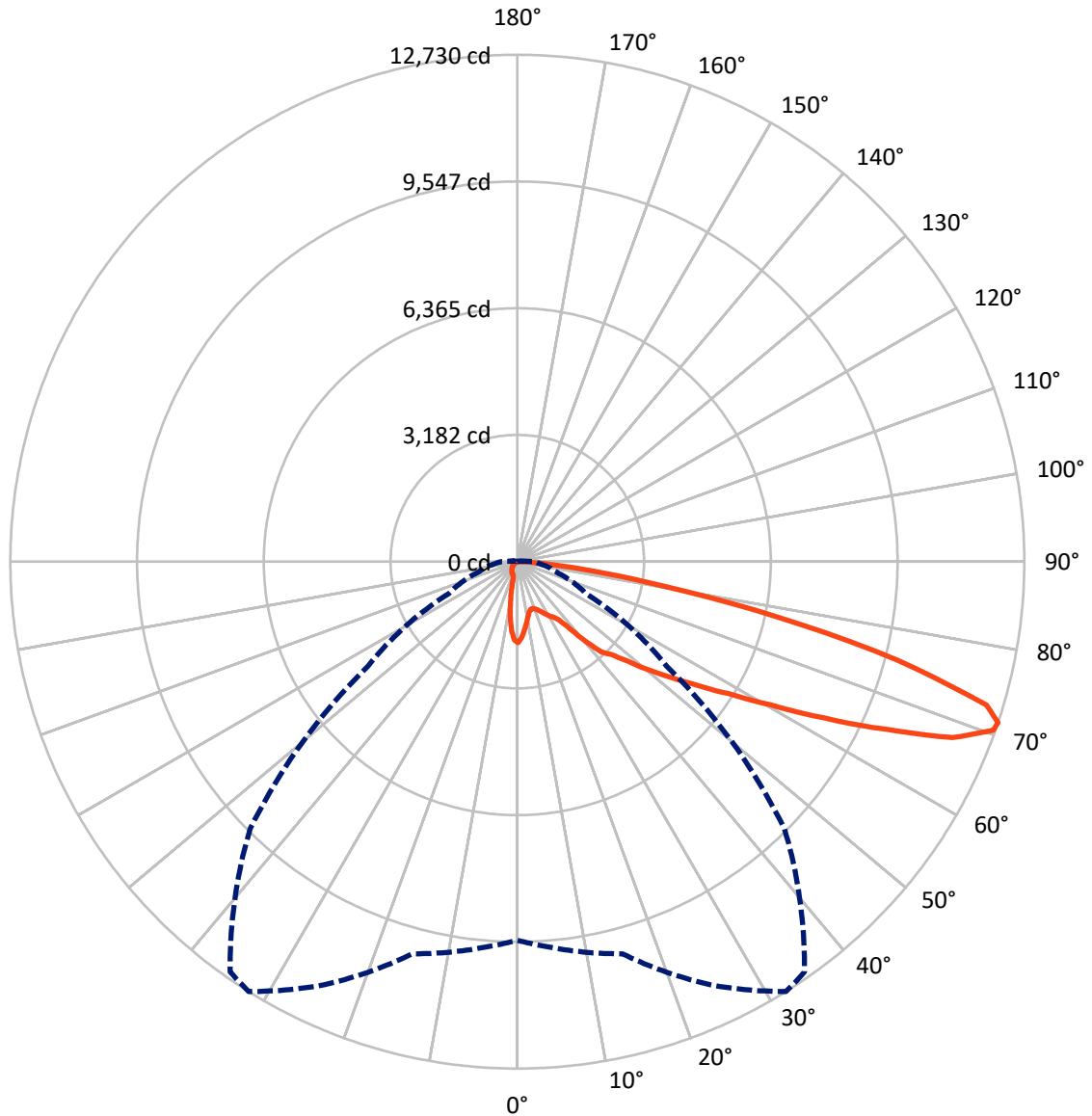
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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 CATALOG NUMBER: GALN-SA3C-727-U-T4FT-HSS

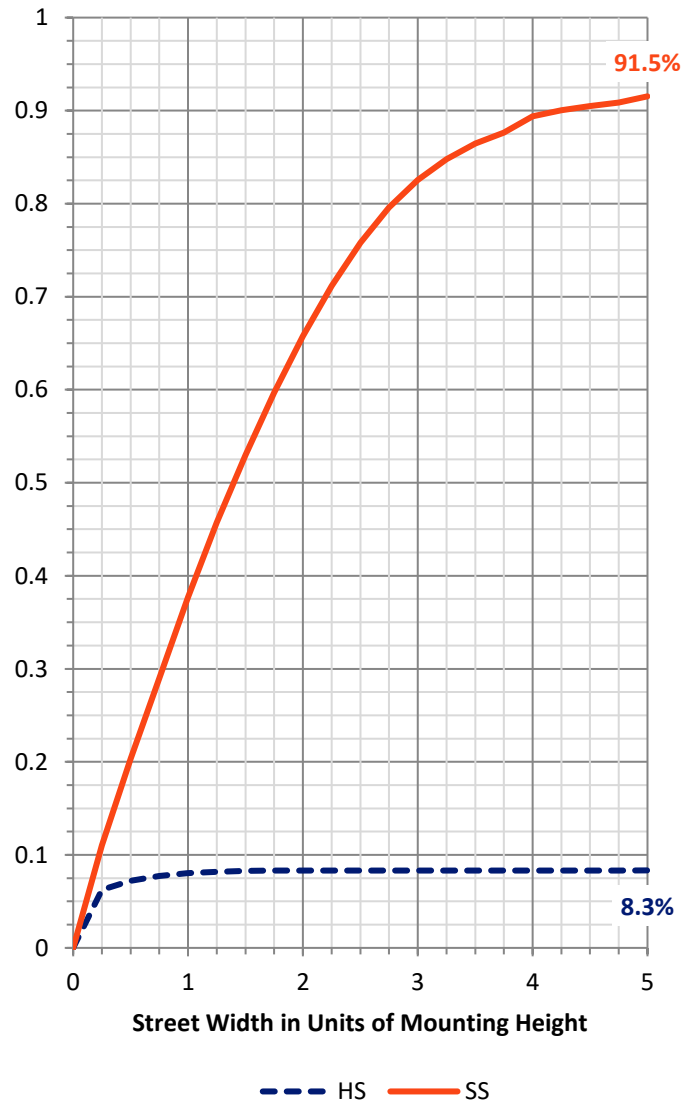
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1058.7	0.0	1058.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	11580.3	0.0	11580.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	12639.0	0.0	12639.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.3	1.3
10°-20°	358.7	2.8
20°-30°	558.0	4.4
30°-40°	929.7	7.4
40°-50°	1729.3	13.7
50°-60°	2776.5	22.0
60°-70°	3734.5	29.5
70°-80°	2215.7	17.5
80°-90°	171.3	1.4
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°	12639.0	100.0
0°-180°	12639.0	100.0

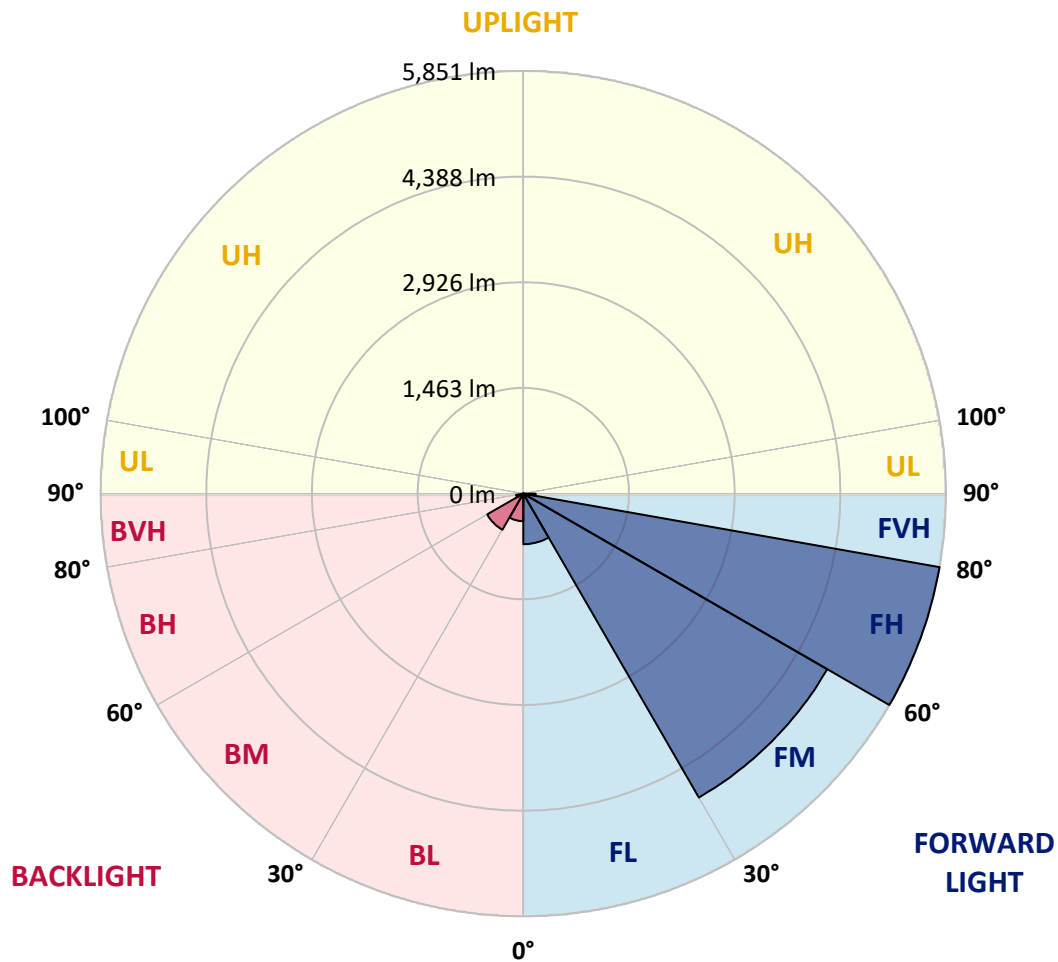


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	700.5	5.5			
FM (30°-60°)	4858.0	38.4			
FH (60°-80°)	5851.2	46.3			G3/7500
FVH (80°-90°)	170.6	1.3			G2/225
BL (0°-30°)	381.5	3.0	B1/500		
BM (30°-60°)	577.5	4.6	B1/1000		
BH (60°-80°)	99.0	0.8	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5
2.5°	1885.1	1904.5	1901.6	1908.4	1924.9	1931.6	1950.1	1970.5	1998.6	2018.0	2030.6
5°	1688.1	1702.7	1704.6	1738.6	1755.1	1773.5	1827.8	1887.0	1953.0	2005.4	2040.3
7.5°	1477.6	1485.4	1500.9	1545.5	1587.2	1605.7	1688.1	1791.0	1894.8	1992.8	2055.8
10°	1303.9	1312.7	1340.8	1388.3	1427.1	1451.4	1565.9	1694.9	1840.5	1986.0	2078.1
12.5°	1205.0	1209.8	1220.5	1263.2	1312.7	1338.9	1462.1	1609.5	1796.8	1988.9	2116.0
15°	1198.2	1196.2	1183.6	1201.1	1245.7	1272.9	1393.2	1551.3	1758.0	1998.6	2160.6
17.5°	1234.1	1229.2	1199.2	1199.2	1236.0	1258.3	1364.1	1520.3	1738.6	2020.9	2223.7
20°	1289.4	1281.6	1232.1	1228.3	1264.2	1287.4	1381.6	1522.2	1742.5	2062.6	2308.1
22.5°	1359.2	1350.5	1275.8	1277.7	1316.5	1339.8	1432.0	1557.2	1766.7	2114.0	2398.3
25°	1450.4	1440.7	1352.4	1348.6	1389.3	1409.7	1506.7	1619.2	1800.7	2178.1	2516.7
27.5°	1571.7	1551.3	1445.6	1439.8	1483.4	1509.6	1596.9	1702.7	1860.8	2266.4	2675.8
30°	1671.6	1649.3	1548.4	1532.9	1579.5	1599.8	1690.1	1815.2	1979.2	2420.6	2896.0
32.5°	1802.6	1769.6	1651.3	1610.5	1660.0	1686.2	1824.9	2024.8	2154.8	2583.6	3158.0
35°	2097.6	2077.2	1932.6	1790.0	1787.1	1820.1	2023.8	2236.3	2335.2	2837.8	3515.0
37.5°	2519.6	2505.0	2351.7	2160.6	2105.3	2089.8	2265.4	2469.1	2623.4	3187.1	3930.2
40°	3009.5	2975.6	2834.9	2672.9	2601.1	2555.5	2550.6	2815.5	2999.8	3661.5	4362.9
42.5°	3360.7	3298.6	3127.9	3116.3	3100.7	3053.2	2915.4	3321.9	3485.9	4171.8	4825.7
45°	3729.4	3635.3	3381.1	3337.5	3331.6	3328.7	3466.5	3921.5	4015.6	4724.8	5301.1
47.5°	4015.6	3940.9	3732.3	3712.9	3737.2	3803.1	4195.1	4558.0	4538.6	5217.7	5699.9
50°	4396.9	4340.6	4108.8	4145.6	4270.8	4378.5	5016.9	5251.6	4968.3	5605.8	5990.0
52.5°	4847.1	4743.3	4527.9	4627.8	4819.9	4999.4	5889.1	5859.0	5270.1	5897.8	6206.3
55°	5237.1	5163.4	5089.6	5193.4	5480.6	5704.7	6676.8	6314.0	5489.3	6132.6	6301.4
57.5°	5896.8	5879.4	5803.7	5909.4	6257.7	6490.6	7382.2	6667.1	5630.0	6254.8	6189.8
60°	6872.8	6844.7	6704.0	6838.9	7292.9	7658.7	8032.2	6984.4	5662.0	6207.3	5868.7
62.5°	8046.8	7950.7	7830.4	8029.3	8652.2	8813.2	8644.4	7172.6	5542.7	5828.9	5094.5
65°	9143.1	9044.1	9047.0	9466.1	10144.3	10253.9	9358.5	7144.5	5193.4	4881.0	3757.5
67.5°	9982.3	9965.8	10084.2	10902.0	11788.8	11713.1	9996.8	6723.4	4158.2	3163.8	1996.7
70°	10025.0	10057.0	10396.6	11777.1	12677.5	12557.2	9942.5	5465.1	2592.3	1455.3	786.8
71°	9508.8	9724.2	10193.8	11750.0	12729.9	12573.7	9484.6	4577.4	1901.6	1014.8	567.6
72.5°	8103.0	8216.5	9231.4	11058.2	12315.6	11981.8	8323.3	3208.4	1217.6	620.9	326.0
75°	4462.9	4742.3	6182.1	8675.4	9850.3	9557.3	5424.3	1524.2	607.3	339.6	134.9
77.5°	2124.7	2070.4	3016.3	5159.5	6678.8	6663.3	2733.0	677.2	354.1	229.9	67.9
80°	607.3	683.0	1154.5	2452.6	3708.1	3748.8	1049.7	327.0	245.5	179.5	34.9
82.5°	183.4	187.2	424.0	1084.7	1844.3	1738.6	393.9	166.9	176.6	142.6	20.4
85°	32.0	39.8	125.2	382.3	703.4	533.6	99.0	79.6	116.4	94.1	11.6
87.5°	1.9	2.9	41.7	43.7	62.1	35.9	17.5	11.6	25.2	25.2	6.8
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: P452535

CATALOG NUMBER: GALN-SA3C-727-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5
2.5°	2039.3	2045.2	2041.3	2032.5	2018.0	2000.5	1977.2	1957.8	1941.4	1932.6	1943.3
5°	2052.0	2059.7	2040.3	1996.7	1930.7	1858.9	1777.4	1714.3	1664.8	1649.3	1643.5
7.5°	2071.4	2076.2	2023.8	1926.8	1787.1	1617.3	1468.9	1343.7	1246.7	1217.6	1174.9
10°	2096.6	2093.7	1994.7	1814.3	1568.8	1313.6	1083.7	912.9	783.9	737.3	733.5
12.5°	2135.4	2119.9	1957.8	1661.0	1308.8	975.0	690.8	540.4	458.9	431.7	425.9
15°	2183.9	2147.0	1899.6	1481.5	1002.2	629.7	425.9	380.3	369.6	367.7	365.8
17.5°	2241.1	2182.9	1823.0	1261.2	704.4	408.5	356.1	355.1	356.1	354.1	353.1
20°	2318.8	2220.8	1731.8	1000.3	465.7	344.4	339.6	339.6	340.5	339.6	339.6
22.5°	2401.2	2265.4	1619.2	763.5	351.2	327.0	326.0	327.9	329.9	328.9	328.9
25°	2503.1	2323.6	1470.8	522.9	314.3	312.4	313.4	317.3	321.1	322.1	321.1
27.5°	2650.6	2395.4	1311.7	359.9	288.1	290.1	299.8	309.5	315.3	316.3	316.3
30°	2816.5	2475.0	1104.1	292.0	266.8	266.8	278.4	296.9	309.5	311.4	312.4
32.5°	3029.9	2567.1	874.1	262.9	246.4	244.5	255.2	277.5	300.8	307.6	307.6
35°	3293.8	2675.8	650.0	244.5	231.9	227.0	232.8	251.3	281.4	300.8	302.7
37.5°	3603.3	2778.6	475.4	228.0	218.3	211.5	215.4	229.9	254.2	283.3	291.1
40°	3889.5	2869.8	355.1	214.4	204.7	199.9	202.8	209.6	229.9	257.1	262.0
42.5°	4201.9	2940.6	282.3	199.9	191.1	189.2	189.2	192.1	205.7	221.2	222.2
45°	4513.3	2965.9	236.7	182.4	176.6	178.5	177.5	175.6	181.4	179.5	179.5
47.5°	4735.5	2935.8	196.0	165.9	165.9	168.8	164.0	157.2	154.3	142.6	143.6
50°	4887.8	2826.2	161.1	146.5	154.3	158.1	148.4	137.8	127.1	114.5	111.6
52.5°	4950.9	2631.2	131.9	121.3	136.8	141.6	130.0	117.4	100.9	90.2	87.3
55°	4910.1	2390.5	109.6	99.0	115.5	121.3	109.6	95.1	76.6	65.0	63.1
57.5°	4730.6	2103.4	93.1	78.6	92.2	96.0	88.3	72.8	54.3	42.7	42.7
60°	4420.2	1806.5	75.7	62.1	68.9	74.7	66.9	52.4	36.9	26.2	24.3
62.5°	3790.5	1466.9	61.1	48.5	48.5	53.4	46.6	37.8	23.3	13.6	12.6
65°	2736.9	1006.1	48.5	35.9	34.9	34.9	29.1	25.2	13.6	5.8	3.9
67.5°	1487.3	567.6	38.8	27.2	24.3	23.3	18.4	14.6	5.8	1.0	0.0
70°	585.0	218.3	30.1	18.4	15.5	14.6	9.7	6.8	3.9	0.0	0.0
71°	396.8	150.4	26.2	15.5	12.6	10.7	7.8	5.8	2.9	0.0	0.0
72.5°	227.0	93.1	20.4	11.6	9.7	7.8	5.8	3.9	2.9	0.0	0.0
75°	99.0	47.5	12.6	8.7	6.8	4.9	3.9	2.9	1.0	0.0	0.0
77.5°	50.4	26.2	8.7	6.8	3.9	2.9	1.9	1.0	0.0	0.0	0.0
80°	28.1	13.6	5.8	3.9	2.9	1.9	1.0	1.0	0.0	0.0	0.0
82.5°	15.5	7.8	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.7	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	1.9	0.0	0.0	0.0	0.0	1.0	1.0	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

(END OF REPORT)