

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: P646864

Luminaire Tested: **GALN-SA3C-835-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646864  
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-835-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 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: 11833.5 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

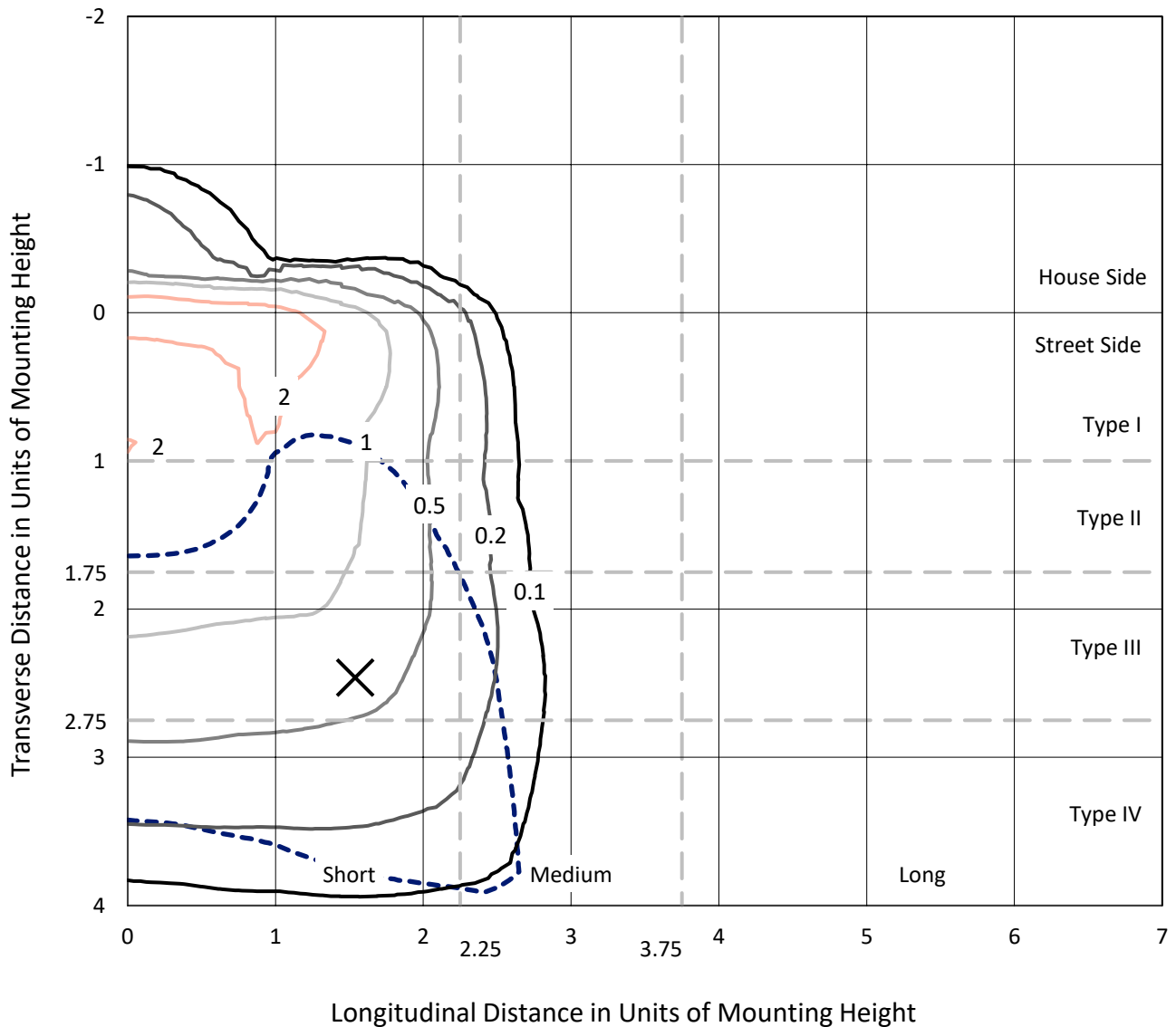
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

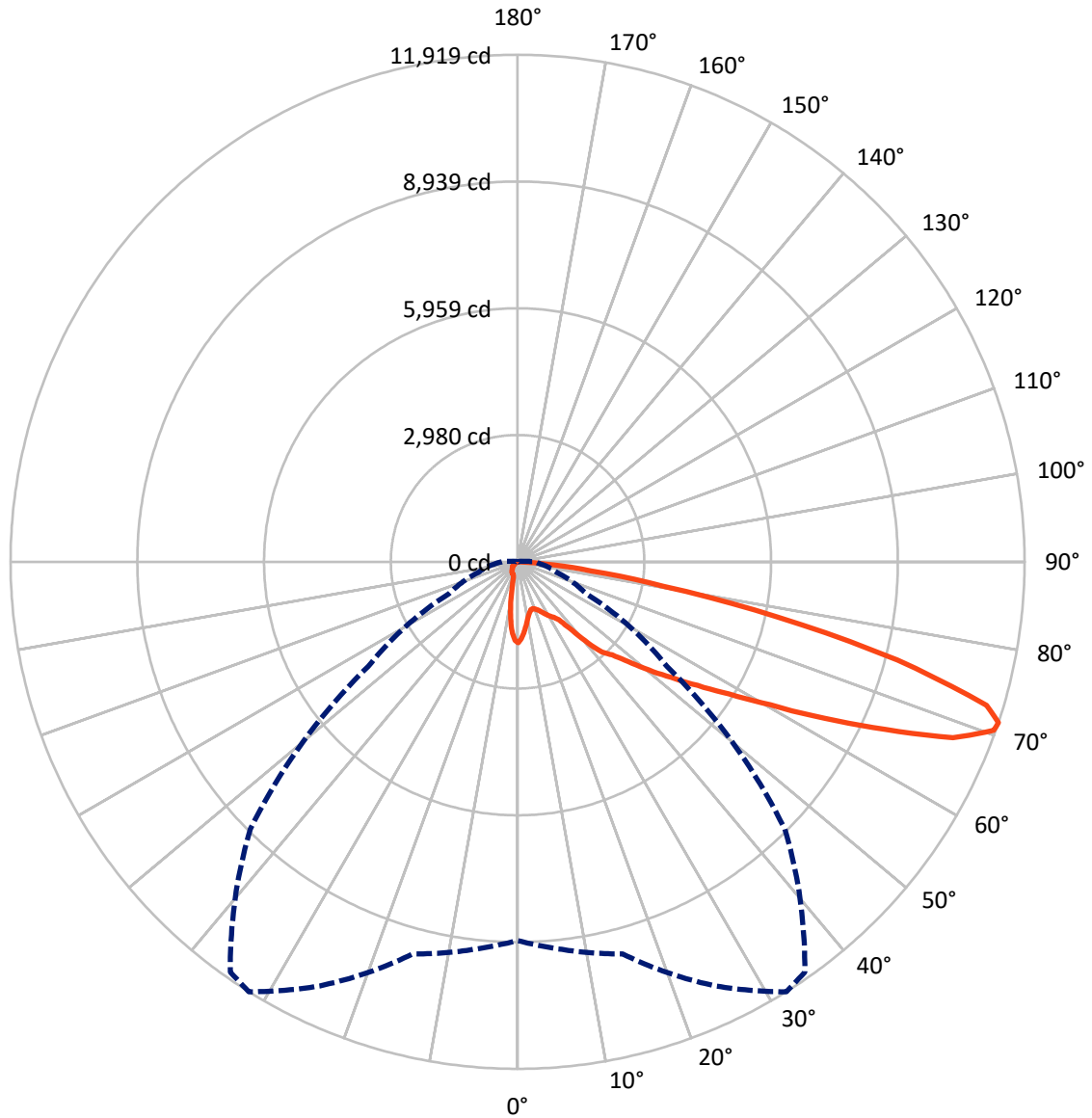
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SA3C-835-U-T4FT-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA3C-835-U-T4FT-HSS

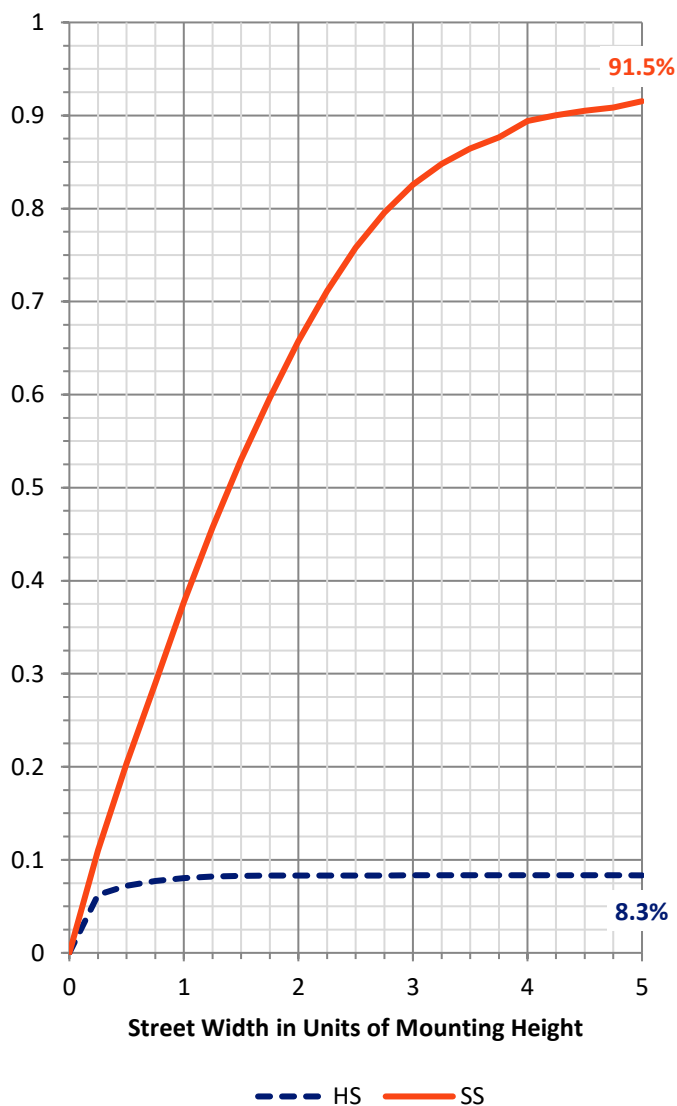
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	991.2	0.0	991.2
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	10842.3	0.0	10842.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	11833.5	0.0	11833.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.7	1.3
10°-20°	335.8	2.8
20°-30°	522.5	4.4
30°-40°	870.4	7.4
40°-50°	1619.1	13.7
50°-60°	2599.5	22.0
60°-70°	3496.5	29.5
70°-80°	2074.5	17.5
80°-90°	160.4	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°	11833.5	100.0
0°-180°	11833.5	100.0

**Coefficient of Utilization**



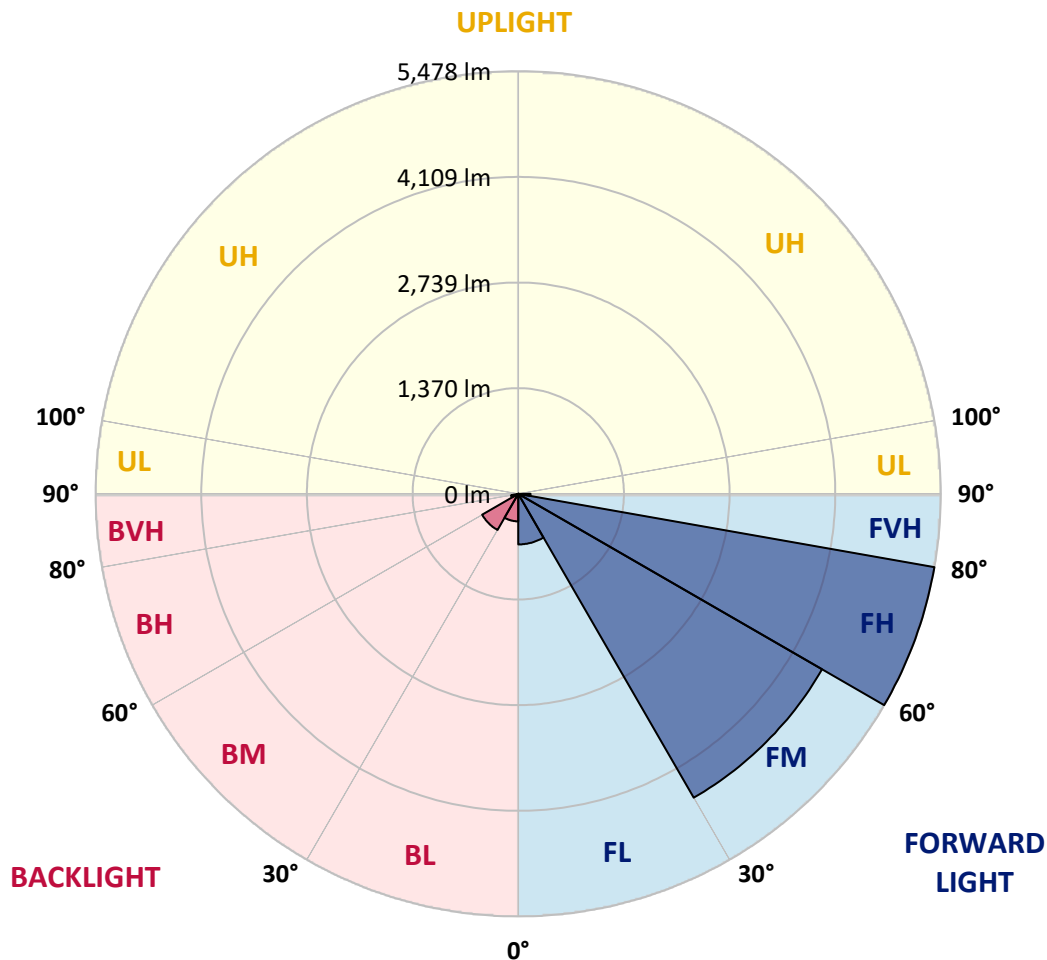
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 CATALOG NUMBER: GALN-SA3C-835-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.9	5.5			
FM (30°-60°)	4548.3	38.4			
FH (60°-80°)	5478.3	46.3			G3/7500
FVH (80°-90°)	159.7	1.3			G2/225
BL (0°-30°)	357.1	3.0	B1/500		
BM (30°-60°)	540.7	4.6	B1/1000		
BH (60°-80°)	92.7	0.8	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0
2.5°	1765.0	1783.1	1780.4	1786.7	1802.2	1808.6	1825.8	1844.9	1871.2	1889.4	1901.2
5°	1580.6	1594.2	1596.0	1627.8	1643.2	1660.5	1711.3	1766.8	1828.5	1877.6	1910.3
7.5°	1383.4	1390.7	1405.3	1447.0	1486.1	1503.4	1580.6	1676.8	1774.0	1865.7	1924.8
10°	1220.9	1229.0	1255.4	1299.9	1336.2	1358.9	1466.1	1586.9	1723.1	1859.4	1945.7
12.5°	1128.1	1132.7	1142.7	1182.6	1229.0	1253.5	1368.9	1507.0	1682.3	1862.1	1981.1
15°	1121.8	1120.0	1108.2	1124.5	1166.4	1191.7	1304.4	1452.5	1645.9	1871.2	2022.9
17.5°	1155.4	1150.9	1122.7	1122.7	1157.3	1178.1	1277.2	1423.4	1627.8	1892.1	2081.9
20°	1207.2	1199.9	1153.6	1150.0	1183.6	1205.4	1293.5	1425.2	1631.4	1931.2	2161.0
22.5°	1272.6	1264.5	1194.5	1196.3	1232.7	1254.4	1340.7	1457.9	1654.1	1979.3	2245.5
25°	1358.0	1348.9	1266.3	1262.6	1300.8	1319.8	1410.7	1516.0	1685.9	2039.2	2356.3
27.5°	1471.6	1452.5	1353.4	1348.0	1388.9	1413.4	1495.1	1594.2	1742.3	2121.9	2505.3
30°	1565.1	1544.2	1449.7	1435.2	1478.8	1497.9	1582.4	1699.5	1853.0	2266.3	2711.5
32.5°	1687.8	1656.8	1546.0	1507.9	1554.2	1578.8	1708.6	1895.7	2017.5	2418.9	2956.7
35°	1963.8	1944.8	1809.4	1675.9	1673.2	1704.0	1894.9	2093.7	2186.4	2657.0	3290.9
37.5°	2359.0	2345.4	2201.9	2022.9	1971.1	1956.6	2121.0	2311.8	2456.2	2983.9	3679.8
40°	2817.7	2785.9	2654.2	2502.5	2435.3	2392.6	2388.1	2636.0	2808.6	3428.1	4084.9
42.5°	3146.6	3088.4	2928.6	2917.6	2903.1	2858.6	2729.6	3110.2	3263.7	3905.9	4518.1
45°	3491.7	3403.6	3165.6	3124.7	3119.3	3116.6	3245.5	3671.6	3759.7	4423.7	4963.3
47.5°	3759.7	3689.7	3494.5	3476.3	3499.0	3560.8	3927.8	4267.4	4249.3	4885.1	5336.6
50°	4116.7	4064.0	3846.9	3881.4	3998.6	4099.4	4697.1	4916.9	4651.7	5248.4	5608.2
52.5°	4538.2	4440.9	4239.3	4332.9	4512.7	4680.8	5513.7	5485.5	4934.2	5521.9	5810.8
55°	4903.3	4834.2	4765.3	4862.4	5131.3	5341.2	6251.3	5911.6	5139.5	5741.7	5899.7
57.5°	5521.0	5504.6	5433.8	5532.8	5858.9	6076.9	6911.7	6242.2	5271.2	5856.2	5795.3
60°	6434.8	6408.5	6276.8	6403.0	6828.2	7170.6	7520.3	6539.2	5301.1	5811.7	5494.6
62.5°	7533.9	7444.0	7331.4	7517.6	8100.8	8251.5	8093.5	6715.5	5189.4	5457.4	4769.8
65°	8560.4	8467.7	8470.4	8862.9	9497.8	9600.4	8762.0	6689.2	4862.4	4570.0	3518.1
67.5°	9346.1	9330.6	9441.5	10207.2	11037.5	10966.6	9359.7	6294.9	3893.2	2962.2	1869.4
70°	9386.1	9416.0	9733.9	11026.5	11869.5	11756.9	9308.9	5116.7	2427.1	1362.5	736.6
71°	8902.8	9104.5	9544.1	11001.2	11918.6	11772.3	8880.1	4285.6	1780.4	950.2	531.4
72.5°	7586.6	7692.9	8643.0	10353.5	11530.7	11218.2	7792.8	3003.9	1140.0	581.4	305.2
75°	4178.5	4440.1	5788.0	8122.5	9222.6	8948.2	5078.6	1427.0	568.6	317.9	126.3
77.5°	1989.3	1938.5	2824.0	4830.6	6253.1	6238.6	2558.8	634.0	331.5	215.2	63.6
80°	568.6	639.5	1080.9	2296.3	3471.7	3509.9	982.8	306.2	229.8	168.0	32.7
82.5°	171.7	175.3	397.0	1015.6	1726.7	1627.8	368.8	156.2	165.3	133.5	19.1
85°	30.0	37.3	117.2	357.9	658.6	499.6	92.6	74.5	109.0	88.1	10.9
87.5°	1.8	2.7	39.1	40.9	58.1	33.6	16.4	10.9	23.6	23.6	6.3
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-SA3C-835-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0	1903.0
2.5°	1909.3	1914.8	1911.1	1903.0	1889.4	1873.0	1851.2	1833.1	1817.7	1809.4	1819.5
5°	1921.2	1928.5	1910.3	1869.4	1807.6	1740.4	1664.1	1605.1	1558.7	1544.2	1538.8
7.5°	1939.3	1943.9	1894.9	1804.0	1673.2	1514.2	1375.3	1258.0	1167.2	1140.0	1100.0
10°	1963.0	1960.2	1867.6	1698.6	1468.8	1229.9	1014.6	854.8	734.0	690.4	686.7
12.5°	1999.3	1984.7	1833.1	1555.1	1225.4	912.9	646.8	506.0	429.6	404.2	398.8
15°	2044.7	2010.2	1778.6	1387.1	938.3	589.5	398.8	356.1	346.1	344.3	342.5
17.5°	2098.3	2043.8	1706.8	1180.8	659.4	382.4	333.4	332.5	333.4	331.5	330.7
20°	2170.9	2079.3	1621.4	936.5	436.0	322.4	317.9	317.9	318.8	317.9	317.9
22.5°	2248.1	2121.0	1516.0	714.9	328.9	306.2	305.2	307.0	308.8	308.0	308.0
25°	2343.6	2175.5	1377.1	489.6	294.3	292.5	293.4	297.1	300.7	301.6	300.7
27.5°	2481.6	2242.7	1228.1	337.0	269.7	271.6	280.7	289.8	295.2	296.1	296.1
30°	2637.0	2317.2	1033.7	273.4	249.8	249.8	260.7	278.0	289.8	291.6	292.5
32.5°	2836.8	2403.5	818.4	246.2	230.8	228.9	238.9	259.8	281.6	288.0	288.0
35°	3083.8	2505.3	608.6	228.9	217.1	212.6	218.0	235.3	263.4	281.6	283.4
37.5°	3373.6	2601.5	445.1	213.4	204.4	198.0	201.6	215.2	238.0	265.2	272.5
40°	3641.6	2686.9	332.5	200.8	191.7	187.1	189.9	196.2	215.2	240.7	245.2
42.5°	3934.1	2753.3	264.3	187.1	178.9	177.1	177.1	179.9	192.5	207.1	208.0
45°	4225.7	2776.8	221.7	170.8	165.3	167.2	166.2	164.4	169.8	168.0	168.0
47.5°	4433.7	2748.7	183.5	155.3	155.3	158.1	153.5	147.1	144.5	133.5	134.4
50°	4576.3	2646.1	150.8	137.2	144.5	148.1	139.0	129.0	119.0	107.2	104.5
52.5°	4635.4	2463.5	123.6	113.5	128.1	132.6	121.8	109.9	94.5	84.5	81.7
55°	4597.2	2238.2	102.7	92.6	108.1	113.5	102.7	89.0	71.7	60.8	59.0
57.5°	4429.1	1969.3	87.2	73.6	86.3	89.9	82.7	68.1	50.9	39.9	39.9
60°	4138.5	1691.4	70.9	58.1	64.5	69.9	62.6	49.0	34.5	24.5	22.7
62.5°	3548.9	1373.5	57.2	45.4	45.4	50.0	43.6	35.4	21.8	12.7	11.8
65°	2562.4	941.9	45.4	33.6	32.7	32.7	27.2	23.6	12.7	5.5	3.6
67.5°	1392.5	531.4	36.3	25.4	22.7	21.8	17.2	13.6	5.5	0.9	0.0
70°	547.7	204.4	28.2	17.2	14.6	13.6	9.1	6.3	3.6	0.0	0.0
71°	371.5	140.8	24.5	14.6	11.8	10.0	7.3	5.5	2.7	0.0	0.0
72.5°	212.6	87.2	19.1	10.9	9.1	7.3	5.5	3.6	2.7	0.0	0.0
75°	92.6	44.5	11.8	8.1	6.3	4.5	3.6	2.7	0.9	0.0	0.0
77.5°	47.2	24.5	8.1	6.3	3.6	2.7	1.8	0.9	0.0	0.0	0.0
80°	26.3	12.7	5.5	3.6	2.7	1.8	0.9	0.9	0.0	0.0	0.0
82.5°	14.6	7.3	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.1	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	1.8	0.0	0.0	0.0	0.0	0.9	0.9	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

(END OF REPORT)