

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: P458799

Luminaire Tested: **GALN-SA3B-735-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458799  
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-SA3B-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA 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: 11394 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

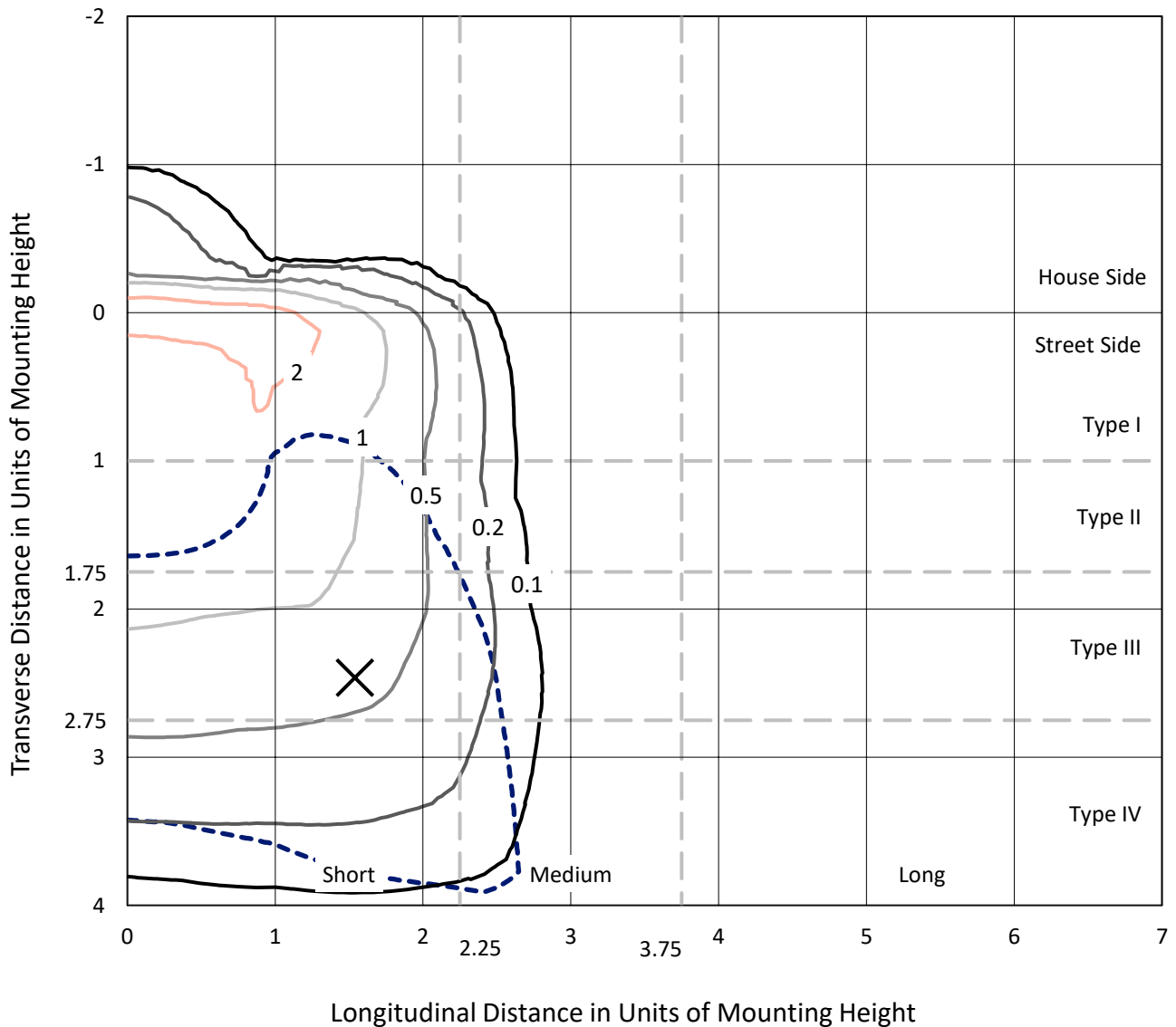
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458799  
 CATALOG NUMBER: GALN-SA3B-735-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

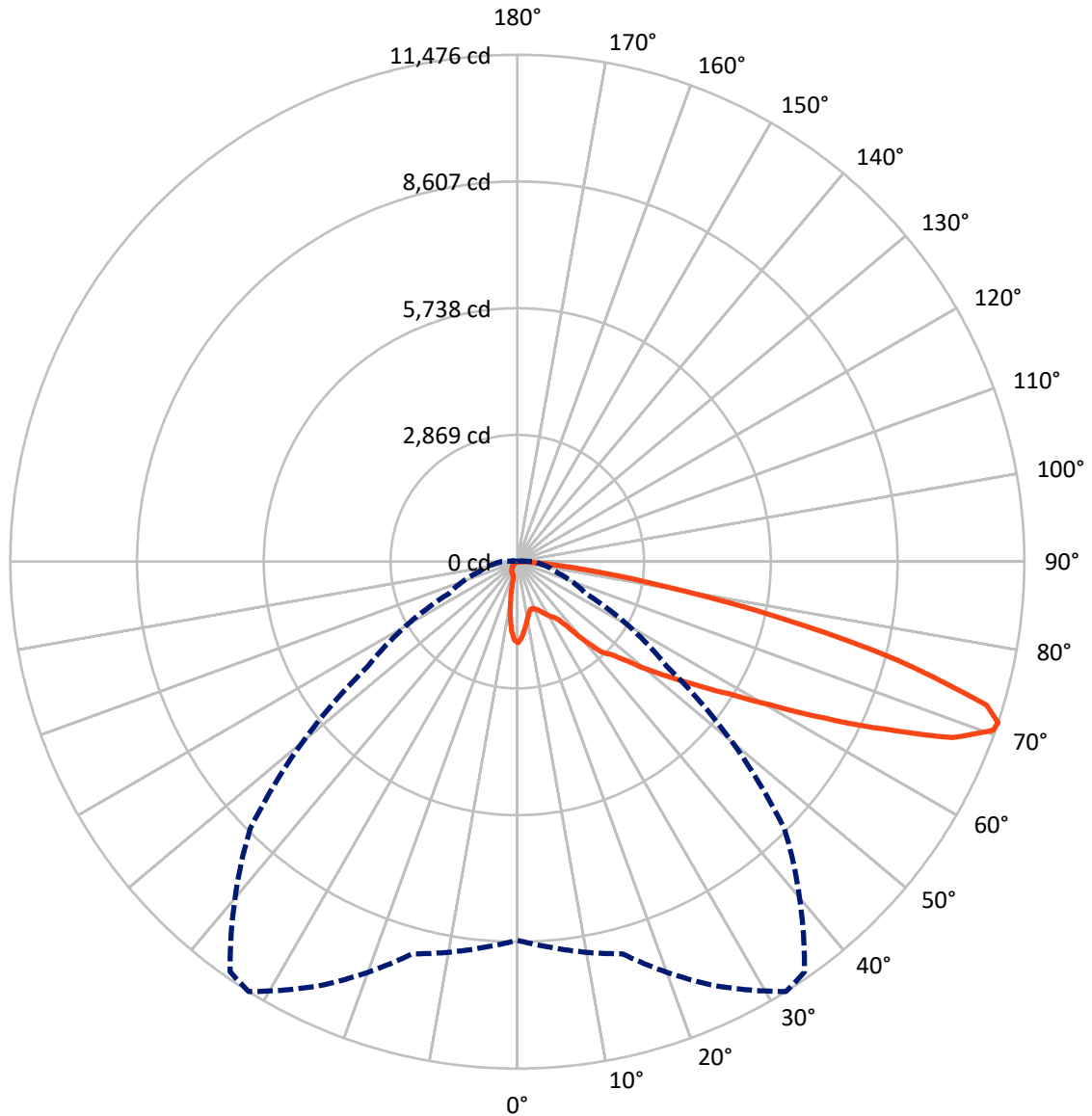
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P458799  
CATALOG NUMBER: GALN-SA3B-735-U-T4FT-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P458799  
 CATALOG NUMBER: GALN-SA3B-735-U-T4FT-HSS

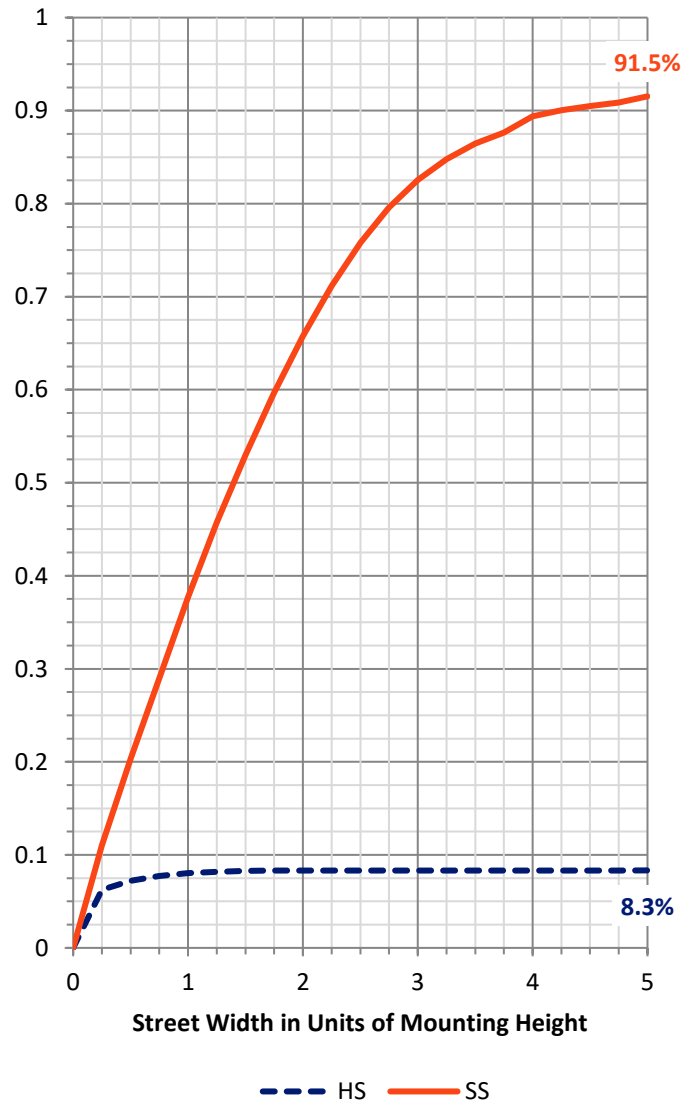
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	954.4	0.0	954.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	10439.6	0.0	10439.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	11394.0	0.0	11394.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.0	1.3
10°-20°	323.4	2.8
20°-30°	503.1	4.4
30°-40°	838.1	7.4
40°-50°	1559.0	13.7
50°-60°	2503.0	22.0
60°-70°	3366.6	29.5
70°-80°	1997.5	17.5
80°-90°	154.4	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°	11394.0	100.0
0°-180°	11394.0	100.0



REPORT NUMBER: P458799

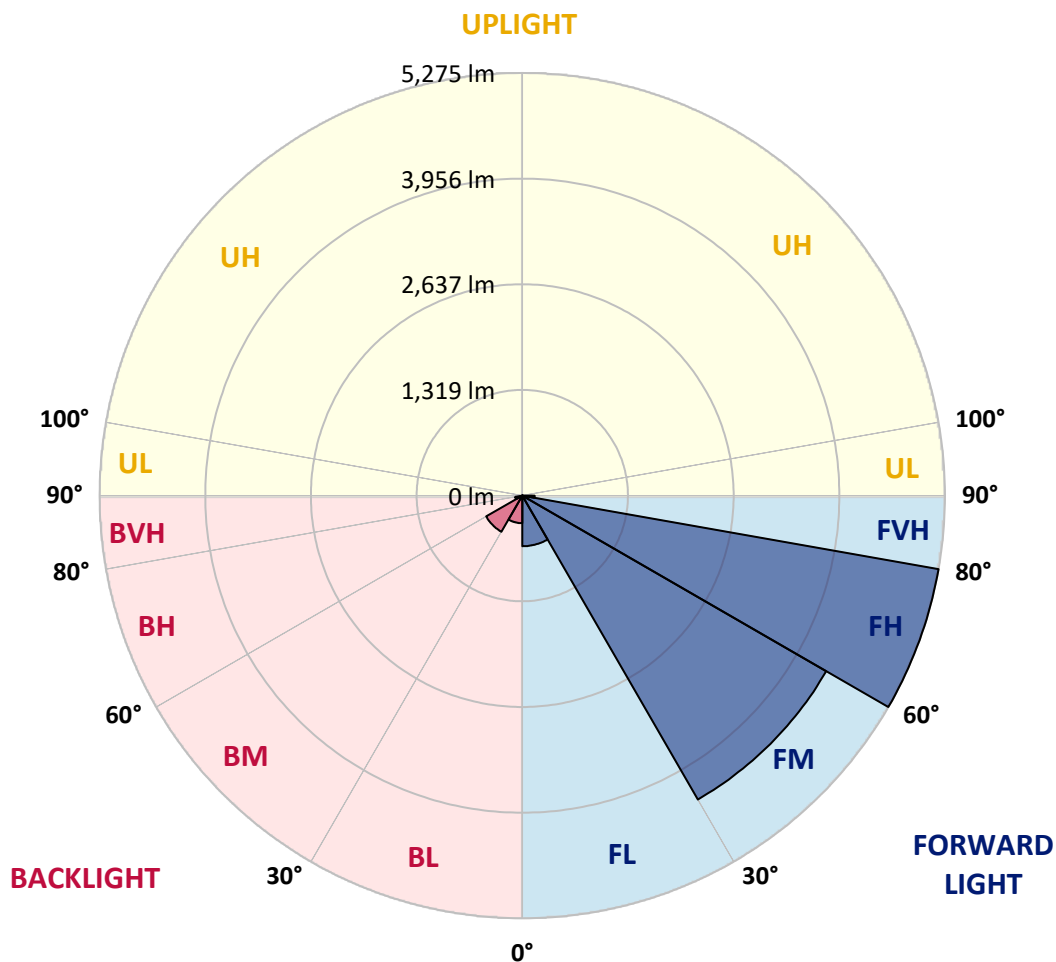
CATALOG NUMBER: GALN-SA3B-735-U-T4FT-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	631.5	5.5			
FM	(30°-60°)	4379.4	38.4			
FH	(60°-80°)	5274.9	46.3			G3/7500
FVH	(80°-90°)	153.8	1.3			G2/225
BL	(0°-30°)	343.9	3.0	B1/500		
BM	(30°-60°)	520.6	4.6	B1/1000		
BH	(60°-80°)	89.3	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





REPORT NUMBER: P458799

CATALOG NUMBER: GALN-SA3B-735-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3
2.5°	1699.4	1716.9	1714.3	1720.4	1735.3	1741.4	1758.0	1776.4	1801.7	1819.2	1830.6
5°	1521.8	1535.0	1536.7	1567.3	1582.2	1598.8	1647.8	1701.1	1760.6	1807.8	1839.3
7.5°	1332.0	1339.0	1353.0	1393.3	1430.9	1447.5	1521.8	1614.6	1708.1	1796.5	1853.3
10°	1175.5	1183.4	1208.7	1251.6	1286.6	1308.4	1411.6	1528.0	1659.2	1790.4	1873.4
12.5°	1086.3	1090.7	1100.3	1138.8	1183.4	1207.0	1318.1	1451.0	1619.8	1793.0	1907.6
15°	1080.2	1078.4	1067.0	1082.8	1123.0	1147.5	1256.0	1398.5	1584.8	1801.7	1947.8
17.5°	1112.5	1108.1	1081.0	1081.0	1114.3	1134.4	1229.7	1370.5	1567.3	1821.8	2004.6
20°	1162.4	1155.4	1110.8	1107.3	1139.6	1160.6	1245.5	1372.3	1570.8	1859.4	2080.7
22.5°	1225.3	1217.5	1150.1	1151.9	1186.9	1207.9	1290.9	1403.8	1592.7	1905.8	2162.1
25°	1307.6	1298.8	1219.2	1215.7	1252.5	1270.8	1358.3	1459.7	1623.3	1963.5	2268.8
27.5°	1416.9	1398.5	1303.2	1297.9	1337.3	1360.9	1439.6	1535.0	1677.5	2043.1	2412.2
30°	1507.0	1486.9	1395.9	1381.9	1423.9	1442.3	1523.6	1636.4	1784.2	2182.2	2610.7
32.5°	1625.0	1595.3	1488.6	1451.9	1496.5	1520.1	1645.2	1825.3	1942.5	2329.1	2846.9
35°	1890.9	1872.6	1742.2	1613.7	1611.1	1640.8	1824.5	2016.0	2105.2	2558.3	3168.8
37.5°	2271.4	2258.3	2120.1	1947.8	1897.9	1883.9	2042.2	2225.9	2365.0	2873.1	3543.1
40°	2713.1	2682.5	2555.6	2409.6	2344.9	2303.8	2299.4	2538.2	2704.3	3300.8	3933.2
42.5°	3029.7	2973.7	2819.8	2809.3	2795.3	2752.4	2628.2	2994.7	3142.5	3760.9	4350.4
45°	3362.0	3277.2	3048.1	3008.7	3003.5	3000.8	3125.0	3535.2	3620.1	4259.4	4778.9
47.5°	3620.1	3552.7	3364.7	3347.2	3369.0	3428.5	3781.9	4109.0	4091.5	4703.7	5138.4
50°	3963.8	3913.1	3704.0	3737.3	3850.1	3947.2	4522.7	4734.3	4478.9	5053.6	5399.9
52.5°	4369.6	4276.0	4081.9	4171.9	4345.1	4506.9	5309.0	5281.8	4750.9	5316.8	5595.0
55°	4721.2	4654.7	4588.3	4681.9	4940.7	5142.8	6019.1	5692.0	4948.6	5528.5	5680.7
57.5°	5316.0	5300.2	5232.0	5327.3	5641.3	5851.2	6655.0	6010.4	5075.4	5638.7	5580.1
60°	6195.8	6170.5	6043.6	6165.2	6574.5	6904.3	7241.0	6296.4	5104.3	5595.8	5290.6
62.5°	7254.1	7167.5	7059.1	7238.4	7799.9	7945.1	7792.9	6466.1	4996.7	5254.7	4592.6
65°	8242.4	8153.2	8155.9	8533.7	9145.0	9243.9	8436.6	6440.7	4681.9	4400.2	3387.4
67.5°	8999.0	8984.1	9090.8	9828.1	10627.5	10559.3	9012.1	6061.1	3748.6	2852.1	1800.0
70°	9037.5	9066.3	9372.4	10617.0	11428.7	11320.2	8963.1	4926.7	2337.0	1311.9	709.3
71°	8572.2	8766.3	9189.7	10592.5	11475.9	11335.1	8550.3	4126.5	1714.3	914.9	511.7
72.5°	7304.8	7407.2	8322.0	9968.9	11102.5	10801.6	7503.4	2892.4	1097.7	559.8	293.9
75°	4023.3	4275.2	5573.1	7820.9	8880.0	8615.9	4890.0	1374.0	547.5	306.1	121.6
77.5°	1915.4	1866.4	2719.2	4651.2	6020.9	6006.9	2463.8	610.5	319.2	207.3	61.2
80°	547.5	615.7	1040.8	2211.0	3342.8	3379.5	946.3	294.7	221.3	161.8	31.5
82.5°	165.3	168.8	382.2	977.8	1662.7	1567.3	355.1	150.4	159.2	128.6	18.4
85°	28.9	35.9	112.8	344.6	634.1	481.0	89.2	71.7	105.0	84.8	10.5
87.5°	1.7	2.6	37.6	39.4	56.0	32.4	15.7	10.5	22.7	22.7	6.1
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: P458799  
 CATALOG NUMBER: GALN-SA3B-735-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3	1832.3
2.5°	1838.5	1843.7	1840.2	1832.3	1819.2	1803.5	1782.5	1765.0	1750.1	1742.2	1751.9
5°	1849.8	1856.8	1839.3	1800.0	1740.5	1675.8	1602.3	1545.5	1500.9	1486.9	1481.6
7.5°	1867.3	1871.7	1824.5	1737.0	1611.1	1458.0	1324.2	1211.4	1123.9	1097.7	1059.2
10°	1890.1	1887.4	1798.2	1635.5	1414.3	1184.2	977.0	823.0	706.7	664.7	661.2
12.5°	1925.0	1911.0	1765.0	1497.4	1179.9	879.0	622.7	487.2	413.7	389.2	384.0
15°	1968.8	1935.5	1712.5	1335.5	903.5	567.6	384.0	342.9	333.2	331.5	329.7
17.5°	2020.4	1967.9	1643.4	1137.0	635.0	368.2	321.0	320.1	321.0	319.2	318.4
20°	2090.3	2002.0	1561.2	901.7	419.8	310.5	306.1	306.1	307.0	306.1	306.1
22.5°	2164.7	2042.2	1459.7	688.3	316.6	294.7	293.9	295.6	297.4	296.5	296.5
25°	2256.5	2094.7	1325.9	471.4	283.4	281.6	282.5	286.0	289.5	290.4	289.5
27.5°	2389.5	2159.4	1182.5	324.5	259.8	261.5	270.3	279.0	284.3	285.1	285.1
30°	2539.0	2231.2	995.3	263.3	240.5	240.5	251.0	267.6	279.0	280.8	281.6
32.5°	2731.4	2314.2	788.0	237.0	222.2	220.4	230.0	250.1	271.1	277.3	277.3
35°	2969.3	2412.2	586.0	220.4	209.0	204.7	209.9	226.5	253.6	271.1	272.9
37.5°	3248.3	2504.9	428.6	205.5	196.8	190.7	194.2	207.3	229.2	255.4	262.4
40°	3506.4	2587.1	320.1	193.3	184.5	180.2	182.8	188.9	207.3	231.8	236.1
42.5°	3788.0	2651.0	254.5	180.2	172.3	170.6	170.6	173.2	185.4	199.4	200.3
45°	4068.7	2673.7	213.4	164.4	159.2	160.9	160.1	158.3	163.6	161.8	161.8
47.5°	4269.0	2646.6	176.7	149.6	149.6	152.2	147.8	141.7	139.1	128.6	129.4
50°	4406.3	2547.8	145.2	132.1	139.1	142.6	133.8	124.2	114.6	103.2	100.6
52.5°	4463.2	2372.0	118.9	109.3	123.3	127.7	117.2	105.8	91.0	81.3	78.7
55°	4426.5	2155.1	98.8	89.2	104.1	109.3	98.8	85.7	69.1	58.6	56.9
57.5°	4264.7	1896.2	84.0	70.8	83.1	86.6	79.6	65.6	49.0	38.5	38.5
60°	3984.8	1628.5	68.2	56.0	62.1	67.3	60.3	47.2	33.2	23.6	21.9
62.5°	3417.1	1322.4	55.1	43.7	43.7	48.1	42.0	34.1	21.0	12.2	11.4
65°	2467.3	907.0	43.7	32.4	31.5	31.5	26.2	22.7	12.2	5.2	3.5
67.5°	1340.8	511.7	35.0	24.5	21.9	21.0	16.6	13.1	5.2	0.9	0.0
70°	527.4	196.8	27.1	16.6	14.0	13.1	8.7	6.1	3.5	0.0	0.0
71°	357.7	135.6	23.6	14.0	11.4	9.6	7.0	5.2	2.6	0.0	0.0
72.5°	204.7	84.0	18.4	10.5	8.7	7.0	5.2	3.5	2.6	0.0	0.0
75°	89.2	42.9	11.4	7.9	6.1	4.4	3.5	2.6	0.9	0.0	0.0
77.5°	45.5	23.6	7.9	6.1	3.5	2.6	1.7	0.9	0.0	0.0	0.0
80°	25.4	12.2	5.2	3.5	2.6	1.7	0.9	0.9	0.0	0.0	0.0
82.5°	14.0	7.0	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.7	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	1.7	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)